



UHD TV

Project : UNU7400H

Chassis : UWX80

Model : UA43NU7800K
UA50NU7800K

SERVICE Manual

UHD TV



UA**NU7800K

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2. Product specifications
3. Disassembly and Reassembly
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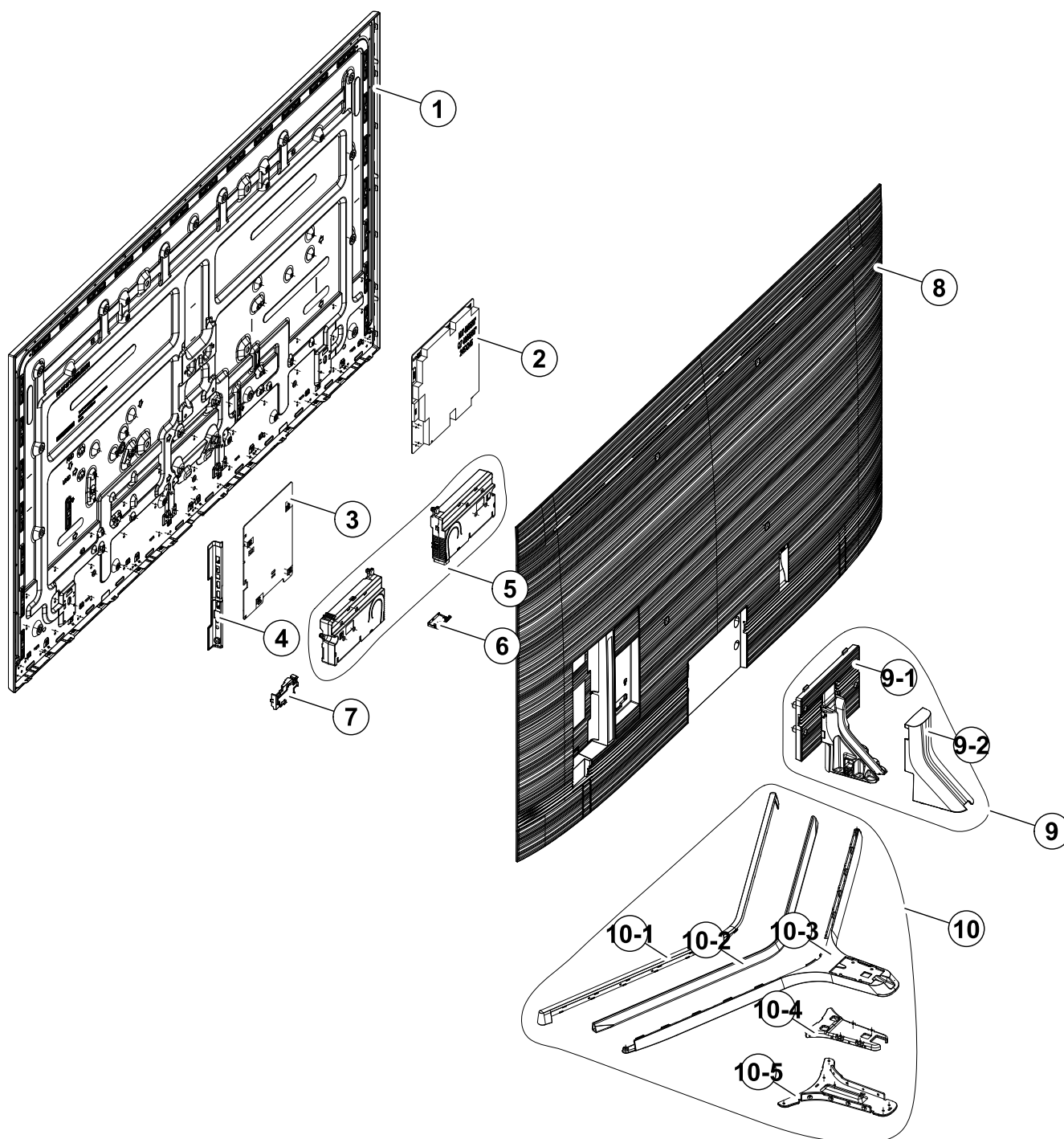


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1. Exploded View & Part List

Exploded View



Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	1	PANEL	BN95-04755E	PRODUCT LCD-AUO; CY-NN043HGAVAV/H,NU7400,	SA	1
2	2		BN44-00947D	DC VSS-PD BOARD; L40E6N_NSM,AC/DC,123W,AC	SA	1
3	2	M0014	BN94-13295U	ASSY PCB MAIN; UNU7400H	SA	1
4	2		BN63-16652A	COVER-TERMINAL SIDE; 55MU6400,HIPS,HB,BK0	SA	1
5	2		BN96-30337L	ASSY SPEAKER P-FRONT; TV-SPK,40UNU7100X,6	SA	1
6	2	FB05A	BN96-45912A	ASSY BOARD P-FUNCTION; Y18 NU7300, 7100,C	SA	1
7	2		BN59-01264B	NETWORK-WLAN CLIENT; WCM730Q,78.3x29.3x7.	SA	1
8	2	R001A	BN96-45900C	ASSY COVER P-REAR; 43UNU7400H,PC+ABS+ED20	SA	1
9	2	SG03A	BN96-46046A	ASSY STAND P-GUIDE; 43UNU7400H,W/W,PC+ABS	SA	1
9-1	3	SG03	BN61-15625A	GUIDE-STAND; 43UNU7400H,PC+ABS+GF20%,V-1,	SNA	1
9-2	3		BN63-17530A	COVER-STAND NECK REAR; 43UNU7400H,HIPS,HB	SNA	1
10	2		BN96-46051A	ASSY STAND P-BRACKET BOTTOM; 43UNU7400H,W	SA	1
10-1	3		BN63-17557A	COVER-STAND DECORATION; 43UNU7400H,ABS,HB	SNA	1
10-2	3		BN61-15612A	BRACKET-STAND BOTTOM FRONT; 43UNU7400H,CR	SNA	1
10-3	3		BN63-17549A	COVER-STAND TOP; 43UNU7400H,ABS,HB,BK0007	SNA	1
10-4	4		BN61-15587A	BRACKET-STAND BOTTOM REAR; 43UNU7400H,HGI	SNA	1
10-5	4		BN61-15601A	BRACKET-STAND BOTTOM; 43UNU7400H,HGI,T4,N	SNA	1

2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
			UA43NU7800KXXV (AB03)		
1	R001A	BN90-09518C	ASSY COVER REAR;43UNU7400	1	SNA
.2	R001A	BN96-45900C	ASSY COVER P-REAR;43UNU7400H,PC+ABS+ED20	1	SA
..3		BN63-10851F	SHEET-PROTECTION COVER;HU8500,PET,T0.1,W	2	SNA
..3	R001	BN63-17502C	COVER-REAR;43UNU7400H,PC+ABS+ED20%,V-1,B	1	SNA
...4		0103-010818	RESIN PC ABS;CM20G/BK00749,BLACK,BK0007,	1756	SNA
..3		BN64-04074A	INLAY-TERMINAL SIDE;55UNU7100X,PET,T0.12	1	SNA
..3		BN68-07835Q	LABEL-STICKER LICENSE;65QNQ8CB,PET,T0.12	1	SNA
1		BN90-09524N	ASSY W/I;UNU74/75	1	SNA
.2		BN81-08159Z	A/S PART SET-ELEC W/I;LED TV ELEC spec-C	1	SNA
.2		BN81-16100B	A/S PART SET-MECH W/I;UNU7400H,U43NH*	1	SNA
1	S001A	BN90-09648A	ASSY STAND;40/43UNU7400	1	SNA
.2	SG03A	BN96-46046A	ASSY STAND P-GUIDE;43UNU7400H,W/W,PC+ABS	1	SA
..3		6902-002472	BAG PE;HDPE/PE FOAM,T0.015/T0.5,W300,L45	1	SNA
..3	SG03	BN61-15625A	GUIDE-STAND;43UNU7400H,PC+ABS+GF20%,V-1,	1	SNA
...4		0103-009946	RESIN PC ABS;HM-1200,BLACK,BK0007,V-1,GF	555	SNA
..3		BN63-17530A	COVER-STAND NECK REAR;43UNU7400H,HIPS,HB	1	SNA
...4		0103-004631	RESIN HIPS;HF-1690H/K21294,K21294,BK0007	100	SNA
..3		BN68-05603A	LABEL-E PASS;ART,W/W,90g	2	SNA
..3		BN96-36261A	ASSY ACCESSORY-SCREW;JU7000 75",6003-001	2	SNA
...4	SCREW	6003-001334	SCREW-TAPTYPE;BH,+,S,M4,L14,ZPC(BLK),SWR	8	SA
...4		6902-002476	BAG SCREW;LDPE,T0.05*,W70,L90,TRP,RECYCL	2	SNA
.2		BN96-46051A	ASSY STAND P-BRACKET BOTTOM;43UNU7400H,W	1	SA
..3	SCREW	6003-001119	SCREW-TAPTYPE;FH,+,S,M4,L10,ZPC(BLK),SWR	8	SA
..3	SCREW	6003-001239	SCREW-TAPTYPE;FH,+,B,M4,L10,ZPC(WHT),SWR	8	SA
..3		6902-002918	BAG PE;HDPE/PE FOAM,T0.015/T0.5,W70,L400	2	SNA
..3		6902-002920	BAG PE;HDPE/PE FOAM,T0.015/T0.5,W300,L40	1	SNA
..3		BN61-15612A	BRACKET-STAND BOTTOM FRONT;43UNU7400H,CR	1	SNA
..3		BN63-17549A	COVER-STAND TOP;43UNU7400H,ABS,HB,BK0007	1	SNA
..3		BN63-17557A	COVER-STAND DECORATION;43UNU7400H,ABS,HB	1	SNA
...4		0103-004609	RESIN ABS;HF-0680U,K21294,BK0007,HB,High	287	SNA
...4		BN63-17174A	SHEET-PROTECTION COVER;55MU7000,PE,T0.05	1	SNA
...4		BN68-05603E	LABEL-RESIN;ART,W8,L50,UL LABEL (COVER R	5	SNA
..3		BN63-18411A	SHEET-PROTECTION COVER;NU7400,PO,T0.05,W	0	SNA
..3		BN64-01567A	INLAY;ECOFIT,PS,T0.5,BLACK	2	SA
..3	RF01	BN67-00398L	FOOT-RUBBER;UH6K,RUBBER,GRAY,T2,,	5	SNA
..3		BN74-00053E	TAPE-SINGLE FACE;PAPER,3M2307,T0.14,W20,	0	SNA
..3		BN96-46805A	ASSY STAND P-BRACKET BOTTOM;43UNU7400H,H	1	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		6001-002610	SCREW-MACHINE;BH,+,M4,L6,ZPC(BLK),SWRCH1	4	SA
...4		BN61-15587A	BRACKET-STAND BOTTOM REAR;43UNU7400H,HGI	1	SNA
...4		BN61-15601A	BRACKET-STAND BOTTOM;43UNU7400H,HGI,T4,N	1	SNA
...4		BN61-16176A	BRACKET-STAND BOTTOM FRONT;65URU7400G,SU	4	SNA
1		BN91-19770B	ASSY SHIELD;43UNU7400	1	SNA
.2		BN39-02217D	LEAD CONNECTOR-POWER;43K5500,UL21016,12P	1	SA
.2		BN39-02219G	LEAD CONNECTOR-SUB ASSY;43K5300,UL21016,	1	SA
.2		BN39-02231D	LEAD CONNECTOR-SUB ASSY;43KU6400,UL21016	1	SA
.2		BN44-00947D	DC VSS-PD BOARD;L40E6N_NSM,AC/DC,123W,AC	1	SA
.2		BN59-01264B	NETWORK-WLAN CLIENT;WCM730Q,78.3x29.3x7.	1	SA
.2		BN61-15579A	HOLDER-WIFI;65UNU8000F,ABS,BK0007,HB	1	SNA
...3		0103-004609	RESIN ABS;HF-0680U,K21294,BK0007,HB,High	11	SNA
.2		BN63-16652A	COVER-TERMINAL SIDE;55MU6400,HIPS,HB,BK0	1	SA
...3		0103-004628	RESIN HIPS;HF-1690H,K2901,BK0020,HB,High	14	SNA
.2		BN96-30337L	ASSY SPEAKER P-FRONT;TV-SPK,40UNU7100X,6	1	SA
.2		BN96-39820G	FFC CABLE;40NU7100,Fold,L500,96P,-	1	SA
.2		BN96-39821E	FFC CABLE;40NU7100,Fold,L350,96P,-	1	SA
.2	FB05A	BN96-45912A	ASSY BOARD P-FUNCTION;Y18 NU7300, 7100,C	1	SA
1	M0017	BN91-19777U	ASSY CHASSIS;43UNU7400	1	SNA
.2	M0014	BN94-13295U	ASSY PCB MAIN;UNU7400H	1	SA
...3		BN62-00834B	HEAT SINK-PS;KANT_M Built-in,A1050,T1.5,	1	SNA
...3		BN68-05458A	LABEL-BARCODE;ALL,ART,W45,L12,BLACK,WHIT	1	SNA
...3		BN97-00020R	ASSY DRM;KANT-M2E,ISDB,NagSam, MAC, HDCP	1	SNA
...4		BN46-00109H	KEY CODE-CERTIFICATION;MAC,TV/AV,General	1	SNA
...4		BN46-00110P	KEY CODE-CERTIFICATION;MIRACAST(HDCP2.2)	1	SNA
...4		BN46-00773A	KEY CODE-CERTIFICATION;KANT-M2,Nagra CSC	1	SNA
...3		BN97-00022M	ASSY MICOM-TCON DATA;43_AUO8_NU7400,NU74	1	SNA
...4		BN46-00896A	S/W MICOM;N43L6U1F10,AUO G8,43L6AU6NN,FL	1	SNA
...3		BN97-15106W	ASSY SMD;UNU7400H	1	SNA
...4		0202-001830	SOLDER-CREAM;LFM-48W TM-HP,D20~38um,96.5	4	SNA
...4	DS01A	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA
...4		0403-001783	DIODE-ZENER;BZB84-C6V2,5.8~6.6V,300mW,SO	3	SNA
...4		0403-002014	DIODE-ZENER;KDZ16B,16.2~18.3V,1000mW,SOD	1	SNA
...4		0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	2	SA
...4		0404-001640	DIODE-SCHOTTKY;SS1060HEWS,60V,1000mA,SOD	2	SA
...4		0404-001953	DIODE-SCHOTTKY;MBRA340F-HAF,40V,3000mA,S	3	SA
...4		0404-001976	DIODE-SCHOTTKY;SV540,40V,5000mA,TO-277,T	1	SA
...4		0406-001200	DIODE-TVS;RClamp0504F,6V,1MAV,TP	5	SA
...4		0406-001718	DIODE-TVS;SMF36A,40V,44.2V,3.8MAV,1.25VP	1	SA
...4		0406-001778	DIODE-TVS;PUSB3FR4,6V,9V,0.2MAV,0.7VPA,0	7	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		0406-001786	DIODE-TVS;PJEC5V0V6TM,5V,7V,8V,0.1MAV,9V	1	SA
...4		0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	5	SA
...4		0504-000126	TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4.7K,S	1	SA
...4		0505-001844	FET-SILICON;SI4435DDY-T1-GE3,P,30V,-11.4	1	SA
...4		0505-002560	FET-SILICON;AO6415,P,20V,-3.3A,0.15ohm,1	2	SA
...4		0505-002598	FET-SILICON;AP2317GN,P,20V,-4.2A,0.052oh	1	SA
...4		0505-002660	FET-SILICON;Si2308BDS,N,60V,2.3A,0.156oh	1	SA
...4		0505-002790	FET-SILICON;ZXMP6A17G,P,60V,-4.3A,0.190o	1	SA
...4		0505-002893	FET-SILICON;AO4801AS,P,30V,-5A,2W,SOIC-8	1	SA
...4		0505-003205	FET-SILICON;DMG4435SSS-13,P,30V,-7.3A,1.	1	SA
...4		0505-003391	FET-SILICON;AOD2922,N,100V,8A,140Mohm,18	1	SA
...4		0505-003397	FET-SILICON;2N7002K,N,60V,0.38A,1.19ohm,	2	SA
...4		1001-001545	IC-ANALOG MULTIPLEX;TS3USB221ERSER,R-PQF	1	SA
...4		1003-002948	IC-LEVEL DRIVER;VLS2RT,QFN,40P,6x6x1mm,6	1	SA
...4		1103-001584	IC-EEPROM;M24512-DFMN6TP,512Kbit,64K x 8	1	SNA
...4		1105-002882	IC-DDR4 SDRAM;K4F8E304HB-MGCJ,LPDDR4-SDR	2	SA
...4		1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DUAL,10	1	SA
...4		1201-004117	IC-AUDIO AMP;TAS5749M,QFP,48P,7x7x1mm,DU	1	SA
...4		1203-004363	IC-VOL. DETECTOR;SOT-23,3Z30,2.9x1.6mm,P	1	SA
...4		1203-008139	IC-DC/DC CONVERTER;TPS56C20PWPR,HTSSOP,2	1	SA
...4		1203-008392	IC-VOL. DETECTOR;S-6414AAB-L800X,TSOT-23	1	SA
...4		1203-008777	IC-DC/DC CONVERTER;TPS563201,SOT-23,6,1.	4	SA
...4		1203-008920	IC-DC/DC CONVERTER;SYD105ADC,TSOT23,6P,2	1	SA
...4		1203-009057	IC-POS. ADJUST REG.;G943F11U,SOP-8,8P,4.	1	SA
...4		1203-009059	IC-DC/DC CONVERTER;VPM2GM,QFN,56P,7x7x0.	1	SA
...4		1203-009067	IC-DC/DC CONVERTER;TPS564201,SOT-23,6P,3	1	SA
...4		1204-003752	IC-DECODER;SDP1711,FCBGA,932P,27x27x1.79	1	SA
...4		1205-004692	IC-SWITCH;TPS2069CDBVR,SOT-23,5P,2.9x2.8	2	SA
...4		1205-005749	IC-SWITCH;G2897KD1U,TDFN2X3-14,14P,2x3mm	1	SA
...4		1404-001731	THERMISTOR-NTC;33Kohm,4050K,1MWC,TP,1.6x	1	SNA
...4		1405-001232	VARISTOR;6.4V,5.6VDC,30A,1608,TP,19V,200	1	SNA
...4		1405-001271	VARISTOR;35V,20VDC,5A,1005,TP,100V,10pF	21	SA
...4		1405-001306	VARISTOR;11VDC,45A,1608,TP,50V,40pF	1	SA
...4		1405-001381	VARISTOR;11V,8VDC,30A,1608,TP,25V,500pF	5	SA
...4		1405-001382	VARISTOR;24.5V,16VDC,120A,2012,TP,42V,40	2	SA
...4		1405-001452	VARISTOR;15V,12VDC,8A,1608,TP,46V,18pF	6	SA
...4		2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-000066	R-CHIP;20Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608,T0.45	12	SA
...4		2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005,T0.35	1	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005,T0.35	1	SNA
...4		2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005,T0.35	24	SNA
...4		2007-000772	R-CHIP;33Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-000779	R-CHIP;33ohm,1%,1/10W,TP,1608	8	SNA
...4		2007-000816	R-CHIP;390Kohm,1%,1/10W,TP,1608	1	SNA
...4		2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005,T0.35	3	SA
...4		2007-000979	R-CHIP;5.6Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-001125	R-CHIP;68Kohm,1%,1/10W,TP,1608	2	SA
...4		2007-001139	R-CHIP;7.5Kohm,1%,1/10W,TP,1608	2	SA
...4		2007-001288	R-CHIP;18ohm,5%,1/16W,TP,1005,T0.35	4	SA
...4		2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005,T0.35	3	SA
...4		2007-001298	R-CHIP;51ohm,5%,1/16W,TP,1005,T0.35	5	SA
...4		2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	20	SA
...4		2007-002906	R-CHIP;200Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005,T0.35,-	12	SA
...4		2007-007131	R-CHIP;13Kohm,1%,1/16W,TP,1005,T0.35	2	SA
...4		2007-007132	R-CHIP;15Kohm,1%,1/16W,TP,1005,T0.35	3	SA
...4		2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005,T0.35	66	SA
...4		2007-007137	R-CHIP;1.2Kohm,1%,1/16W,TP,1005,T0.35	5	SA
...4		2007-007138	R-CHIP;27Kohm,1%,1/16W,TP,1005,T0.35	3	SA
...4		2007-007139	R-CHIP;47Kohm,1%,1/16W,TP,1005,T0.35	8	SA
...4		2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005,T0.35	31	SA
...4		2007-007305	R-CHIP;120ohm,1%,1/16W,TP,1005	1	SNA
...4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005,T0.35	15	SA
...4		2007-007308	R-CHIP;33Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...4		2007-007310	R-CHIP;8.2Kohm,1%,1/16W,TP,1005,T0.35	3	SA
...4		2007-007311	R-CHIP;22Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...4		2007-007312	R-CHIP;20Kohm,1%,1/16W,TP,1005,T0.35	14	SA
...4		2007-007313	R-CHIP;6.8Kohm,1%,1/16W,TP,1005,T0.35	7	SA
...4		2007-007315	R-CHIP;3.9Kohm,1%,1/16W,TP,1005,T0.35	1	SNA
...4		2007-007316	R-CHIP;3.3Kohm,1%,1/16W,TP,1005,T0.35	1	SNA
...4		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005,T0.35	19	SNA
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005,T0.35	6	SNA
...4		2007-007520	R-CHIP;20ohm,1%,1/10W,TP,1608	2	SA
...4		2007-007528	R-CHIP;1.5Kohm,1%,1/16W,TP,1005,T0.35	4	SA
...4		2007-007588	R-CHIP;1.8Kohm,1%,1/16W,TP,1005,T0.3	2	SA
...4		2007-007643	R-CHIP;2Mohm,1%,1/10W,TP,1608	1	SA
...4		2007-007733	R-CHIP;51ohm,1%,1/10W,TP,1608	3	SA
...4		2007-007736	R-CHIP;510Kohm,1%,1/10W,TP,1608	1	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2007-007766	R-CHIP;2Kohm,1%,1/16W,TP,1005,T0.35	22	SA
...4		2007-007767	R-CHIP;200ohm,1%,1/16W,TP,1005	4	SA
...4		2007-007798	R-CHIP;10ohm,1%,1/16W,TP,1005,T0.35	10	SA
...4		2007-007992	R-CHIP;1ohm,1%,1/10W,TP,1608	3	SA
...4		2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005,T0.35	7	SNA
...4		2007-008294	R-CHIP;33ohm,1%,1/16W,TP,1005,T0.35	20	SA
...4		2007-008298	R-CHIP;49.9ohm,1%,1/16W,TP,1005,T0.35	5	SA
...4		2007-008596	R-CHIP;0.1ohm,1%,1/4W,TP,3216	3	SC
...4		2007-009322	R-CHIP;1.3Kohm,1%,1/16W,TP,1005	4	SA
...4		2007-009777	R-CHIP;4.99Kohm,1%,1/16W,TP,1005	1	SA
...4		2011-001264	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2.	9	SNA
...4		2011-001344	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,2	1	SA
...4		2011-001587	R-NETWORK;100ohm,5%,1/16W,L,CHIP,4P,TP,1	2	SA
...4	AD480	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005,T0.5	4	SNA
...4	AD480	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005	4	SA
...4	AD480	2203-000359	C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,T0.	5	SA
...4	AD480	2203-000425	C-CER,CHIP;0.018nF,5%,50V,C0G,TP,1005	1	SA
...4	AD480	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	6	SA
...4	AD480	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	3	SA
...4	AD480	2203-000812	C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005	3	SA
...4	AD480	2203-000940	C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005,T0	2	SNA
...4	AD480	2203-001072	C-CER,CHIP;0.056nF,5%,50V,C0G,TP,1005	1	SA
...4	AD480	2203-001428	C-CER,CHIP;470nF,10%,50V,X7R,TP,2012	1	SA
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	9	SNA
...4	AD480	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	SA
...4	AD480	2203-005083	C-CER,CHIP;220nF,10%,50V,X7R,TP,1608,T0.	6	SNA
...4	AD480	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	5	SA
...4	AD480	2203-005642	C-CER,CHIP;0.22nF,5%,50V,C0G,TP,1005,T0.	3	SA
...4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,T0.	2	SNA
...4	AD480	2203-005993	C-CER,CHIP;68nF,10%,16V,X7R,1005	1	SA
...4	AD480	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005,T0.	2	SNA
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005,T0.5	3	SNA
...4	AD480	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,T0.	170	SA
...4	AD480	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005,T0	19	SA
...4	AD480	2203-006698	C-CER,CHIP;1000nF,10%,25V,X7R,TP,1608,T0	12	SA
...4	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608,T0	1	SA
...4	AD480	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005	3	SA
...4	AD480	2203-006841	C-CER,CHIP;1000nF,10%,16V,X5R,TP,1005,T0	1	SNA
...4	AD480	2203-006844	C-CER,CHIP;470nF,10%,10V,X5R,TP,1005	2	SA
...4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,T	13	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	AD480	2203-007240	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608,	62	SA
...4	AD480	2203-007269	C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2	23	SA
...4	AD480	2203-007271	C-CER,CHIP;2200nF,10%,10V,X5R,TP,1005,T0	11	SNA
...4	AD480	2203-007306	C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,T	28	SNA
...4	AD480	2203-007393	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1005,T0	4	SNA
...4	AD480	2203-007423	C-CER,CHIP;10000nF,10%,35V,X7R,TP,3216	4	SA
...4	AD480	2203-007544	C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,T0.	12	SA
...4	AD480	2203-007795	C-CER,CHIP;10000nF,20%,10V,X5R,TP,1005,T	70	SA
...4	AD480	2203-008096	C-CER,CHIP;2200nF,10%,50V,X5R,TP,2012,1.	2	SA
...4	AD480	2203-008315	C-CER,CHIP;22000nF,20%,25V,X5R,TP,2012,T	10	SA
...4	AD480	2203-008412	C-CER,CHIP;4700nF,10%,50V,X5R,TP,2012,T1	2	SNA
...4		2402-001268	C-AL,SMD;100uF,20%,25V,WT,TP,8x6.3mm	1	SA
...4		2409-001240	C-ORGANIC,SMD;33uF,20%,25V,LR,TP,7343	1	SA
...4		2703-000213	INDUCTOR-SMD;470nH,10%,1.35Ohm,35mA,15,M	1	SA
...4		2703-002269	INDUCTOR-SMD;56nH,5%,1005,T0.5,1.4Ohm,15	3	SA
...4		2703-003747	INDUCTOR-SMD;22uH,20%,6060,0.135ohm,1300	2	SA
...4		2703-003862	INDUCTOR-SMD;10uH,20%,6060,0.065ohm,1900	4	SA
...4		2703-003937	INDUCTOR-SMD;1uH,20%,70647,T3,0.008Ohm,9	1	SA
...4		2703-004724	INDUCTOR-SMD;8.2uH,20%,5050,T4,0.072Ohm,	4	SA
...4		2703-005191	INDUCTOR-SMD;1.5uH,20%,6060,T4.5,0.02Ohm	4	SA
...4		2703-005193	INDUCTOR-SMD;2.2uH,20%,6060,T4.5,0.024Oh	2	SA
...4		2703-005376	INDUCTOR-SMD;10uH,20%,10.7x10mm,T3.8,0.0	1	SA
...4		2703-005720	INDUCTOR-SMD;1uH,20%,1608,T0.8,0.6Ohm,25	1	SNA
...4		2801-004021	CRYSTAL-SMD;24.576MHz,20ppm,28-AAN,12pF,	1	SA
...4		3301-001364	BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz,	6	SNA
...4		3301-002039	BEAD-SMD;26ohm,1608,TP	37	SA
...4		3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL	3	SA
...4		3601-001376	FUSE-SURFACE MOUNT;32V,3A,FAST-ACTING,Hi	1	SA
...4		3701-001967	CONNECTOR-HDMI;19P,A,FEMALE,AU,0.5mm,BLK	3	SA
...4		3707-001123	CONNECTOR-OPTICAL;ANGLE,SPDIF,2.5PI	1	SA
...4		3708-003241	CONNECTOR-FPC/FFC/PIC;96P,0.5mm,SMD-A,AU	2	SNA
...4	EH01	3711-007803	HEADER-BOARD TO CABLE;BOX,12P,1R,1.25mm,	1	SA
...4	EH01	3711-008131	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN	1	SA
...4	EH01	3711-008859	HEADER-BOARD TO CABLE;BOX,12P,2R,2mm,ANG	1	SA
...4		3711-009090	CONNECTOR-HEADER;BOX,16P,1R,1.25mm,SMD-A	1	SA
...4		3722-003199	JACK-MODULAR;8P/8C,Y,ANGLE,NONE,AU,1PORT	1	SA
...4		3722-003457	JACK-USB;4P/1C,NI,BLK,ANGLE,A,2.0,13.1x1	2	SA
...4	JACK	3722-003873	JACK-PHONE;1P/7C,AU/SN,BLU,ANGLE,3.5PI,1	1	SA
...4		3722-004127	JACK-PHONE;1P/7C,NI/SN,YEL,ANGLE,3.5PI,1	1	SA
...4		6302-001376	GASKET-SMD;SMT Gasket,Sn/Cu plated PI-Fi	4	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		BN40-00330B	TUNER-DTV AIR CABLE;GTTH-7A11,DVB-TC,38.	1	SA
...4		BN41-02635B	PCB-MAIN;NU7000,FR-4,4L,T1.6,193x241mm,1	1	SNA
...4	CB07	BN61-13312B	BRACKET-SCREWLESS PCB;55KS8000,SK5,T0.3,	4	SNA
...4		BN97-00018E	ASSY MICOM;T-CON F/W KANT-M2E,NU7100/730	1	SNA
....5		1107-002339	IC-NOR FLASH;W25Q80DV,8Mbit,SOP,5.28x5.2	1	SNA
....5		BN46-00776A	S/W MICOM;KANT-M2E_TCON F/W	1	SNA
...4		BN97-00029H	ASSY MICOM-T-KTM2UABC;NU7400/7500,THGBMN	1	SNA
....5		1107-002644	IC-EMMC;THGBMNG5D1LBAIT,4Gbyte,x1,BGA,15	1	SNA
...4		BN97-14124A	ASSY MICOM;KM2MICOM_TV,UNU8000,W25Q40CLS	1	SNA
....5		1107-002226	IC-NOR FLASH;W25Q40CLSSIP,4Mbit,SOIC,8P,	1	SA
1		BN92-22933A	ASSY P/MATERIAL;43UNU7400	1	SNA
.2		6902-000379	BAG AIR;LDPE,T0.13,W1000,L1800,TRP,Hole	0	SNA
.2		6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,RECY	110	SNA
.2		6902-002677	BAG ROLL;HDPE/HDPE/PE FOAM,T0.015/T0.5,W	1	SNA
.2		6922-000013	BAND;PP,T0.8,W18,L2300 M,TRP	1	SNA
.2		BN02-00319A	TAPE-SINGLE FACE;OPP,T0.05,W60,L800M,CLE	1316	SNA
.2		BN02-00319B	TAPE-SINGLE FACE;OPP,T0.05,W75,L800M,CLE	1	SNA
.2		BN69-11504A	WRAP VINYL;LDPE,T0.018,W500,L10000,Trans	4	SNA
.2		BN69-17053D	PACKING ANGLE;ALL,PAPER,T3,W2000,L50,YEL	0	SNA
.2		BN69-17558A	CUSHION-SET;43UNU7400H,EPS,16.7g/l,WHITE	1	SNA
..3		BN81-01918A	A/S-RESIN;EPS,SG-302	1	SNA
1		BN92-22940R	ASSY BOX;43UNU7400	1	SNA
.2		BN68-07893A	LABEL BOX;ALL,THERMAL PAPER,W60,L110,WHT	1	SNA
.2		BN68-07943A	LABEL BOX;ALL,XXV,ART,W100,L150,150g	1	SNA
.2		BN69-17924M	BOX UNIT;43UNU7800,CB,DW2,F1,L1135,W155,	1	SNA
1	ACCE1	BN92-22947Y	ASSY ACCESSORY;UNU7400	1	SNA
.2		BN96-46463Y	ASSY ACCESSORY MANUAL CABLE;UA50NU7800KX	1	SNA
..3	T0268	3903-001118	POWER CORD-DT;EUR,2P-F,250V,2.5A,BLK,L15	1	SA
..3		4301-000101	BATTERY-ALKALINE;1.5V,1650mAH,LR6,14.5x5	2	SNA
..3		6902-001962	BAG PE;LDPE,BIOBASED,T0.05,W400,L300,TRP	1	SNA
..3	M0254	AA59-00416B	MODULE RF-SHIELD BOX;UGC-AS-003A,PAL-BG,	1	SC
..3	EC03	BN39-02189A	GENDER CABLE;DC to RCA Cable,3P,L100,UL2	1	SA
..3	EC03	BN39-02190A	GENDER CABLE;DC to RCA Cable,2P,L100,UL2	1	SA
..3		BN59-01298D	REMOCON-SMART CONTROL;2018 TV/LFD,SAMSUN	1	SA
..3	T0527	BN68-00513A	LABEL-E PASS;ALL MODEL,WW,YUPO,W50,L15,W	1	SNA
..3		BN68-08963A	LEAFLET-ACCESSORY KIT;NU7 Series,XY & MR & H	1	SNA
..3		BN68-09230A	MANUAL USERS;NU7800,XV,VIETNAM,MOJO,0,1	1	SNA
..3	EH03A	BN96-43169A	ASSY HOLDER P-RING;65Q8C,ABS,BLACK,HB	1	SA
...4		6902-001404	BAG PE;LDPE,T0.05,W80,L100,TRP,Bio. N	1	SNA
...4		BN61-14912A	HOLDER-WALL RING;55Q7F,ABS,T2,BLACK,HB,1	4	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
1		BN92-22955V	ASSY LABEL;UNU7400	1	SNA
.2		BN02-00102B	TAPE-SINGLE FACE;OPP,T0.15,W25,L50M,WHIT	0	SNA
.2		BN68-06708G	LABEL-RATING;Monitor,WW,PP,T0.161,W93,L7	1	SNA
.2		BN68-09206A	LEAFLET-QUICK SETUP GUIDE;NU7400,OTHERS,	1	SNA
.2		BN68-09229A	LABEL-ENERGY;UA43NU7800KXXV,VIET NAM,PET	1	SNA
1	PANEL	BN95-04755E	PRODUCT LCD-AUO;CY-NN043HGAVAV/H,NU7400,	1	SA
.2	M0131	BN63-00520A	GASKET-EMI;APPOLO_PAL,Conductive Fabric,	2	SNA
.2		BN68-05722A	LABEL-E PASS;POLYPROPYLENE,NON-COATING	1	SNA
.2		BN90-09639A	ASSY BACK LIGHT UNIT;UNU7400H	1	SNA
..3		BN61-15651A	OPTICAL SHEET-COMPLEX;18Y_NU7K_43INCH_CO	1	SNA
..3		BN61-15657A	DIFFUSER PLATE;18Y_NU7K_43INCH_DIFFUSER	1	SNA
..3		BN61-15663A	LGP;18Y_NU7K_43INCH_LGP,MS,NewEdge(OD5mm	1	SNA
..3		BN61-15701A	OPTICAL SHEET-REFLECTOR;18Y_NU7K_43INCH_	1	SNA
..3		BN96-45678B	ASSY CHASSIS REAR P;43UNU7400H,EGI-SECC	1	SNA
...4		0203-007064	TAPE-DOUBLE FACE;ACRYL,T0.2,W6,N/A,WHITE	1	SNA
...4		0204-007677	COATING;TD 18740C,4.0%,3.0cps,CLEAR,1.6l	0	SNA
...4		BN02-00102B	TAPE-SINGLE FACE;OPP,T0.15,W25,L50M,WHIT	0	SNA
...4		BN39-02393A	LEAD CONNECTOR-BLU;43NU7400,UL21016,4P,L	1	SNA
...4		BN60-01534A	SPACER-PET;PET,689,BLACK,T0.3,W3	0	SNA
...4	CB20	BN61-11982C	BRACKET-WALL;65QNQ7FC,CR-SPCC,BLACK,M8,L	4	SNA
...4	CB20	BN61-13521A	BRACKET-WALL;32K5500,CR-SPCC,T1.2,NATURA	4	SNA
...4		BN61-13557E	BRACKET-WIRE;49KS7000,SW-C,T1,NATURAL,ZI	2	SA
...4		BN61-13557L	BRACKET-WIRE;40KU6400,SW-C,T1,NATURAL,ZI	2	SA
...4		BN61-15482A	BRACKET-LED PCB;43UNU7100X,Al,T1,NATURAL	1	SNA
...4		BN61-15526A	HOLDER-SOURCE PCB;65UNU7100X,ABS,BK0007,	2	SNA
....5		0103-004609	RESIN ABS;HF-0680U,K21294,BK0007,HB,High	2	SNA
...4		BN61-15531A	HOLDER-LGP TOP RIGHT;65QNQ7FC,TPE,BK0020	1	SNA
...4		BN61-15532A	HOLDER-LGP TOP LEFT;65QNQ7FC,TPE,BK0020,	1	SNA
...4		BN61-15540A	HOLDER-LGP BOTTOM LEFT;65QNQ7FC,TPE,BK00	1	SNA
...4		BN61-15541A	HOLDER-LGP BOTTOM RIGHT;65QNQ7FC,TPE,BK0	1	SNA
....5		0103-005041	RESIN PC ABS;FR3200TV/901408,Black,BK000	4	SNA
....5		0103-010906	RESIN TPE;5202SP/5209B,BLACK,BK0020,HB,T	4	SNA
...4		BN61-16491A	FOOT;49NU7100,RUBBER,Gray,T18.7,T4.3, L1	4	SA
...4		BN63-17620A	INSULATOR-SOURCE PCB;43UNU7100X,PET,BLAC	1	SNA
...4		BN63-17622A	INSULATOR-SMPS;40UNU7100X,PC,BLACK,L255,	1	SNA
...4	CC04	BN64-03995A	CHASSIS-REAR;43UNU7100X,EGI-SECC,-,T0.5,	1	SNA
....5		BN01-00554A	STEEL;43NU7100,EGI-SECC,L995,0.5mm,595mm	1	SNA
...4	T0527	BN68-00513A	LABEL-E PASS;ALL MODEL,WW,YUPO,W50,L15,W	1	SNA
...4		BN96-46053A	ASSY LED BAR P;18Y_NU7K_43INCH_EDGE_LED	2	SA
..3		BN96-45693B	ASSY FRAME P-MIDDLE;40UNU7100X,PC+GF10%,	1	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		BN02-00586A	TAPE DOUBLE FACE;UNU7100X,ACRYL,T0.3,W3,	2	SNA
...4		BN60-00715M	SPACER-CONDUCTIVE;65UNU7100X,CONDUCTIVE	2	SNA
...4		BN60-01605A	SPACER-FOAM;NU7K,HR FOAM,L50,DARK GRAY,T	1	SNA
...4		BN61-15490B	FRAME-MIDDLE;43UNU7100X,PC+GF10%,V-2,No	1	SNA
....5		0103-010237	RESIN PC;LS-3104G/W95265,White,WT0044,V-	184	SNA
.2		BN96-45683A	ASSY COVER P-SOURCE PCB;43UNU7100X,EGI-S	1	SNA
..3		BN63-17459A	COVER-SOURCE PCB;43UNU7100X,EGI-SECC,T0.	1	SNA
..3		BN63-17632A	INSULATOR-SOURCE PCB COVER;43UNU7100X,PE	1	SNA
.2		BN96-45764A	ASSY OPEN CELL;AUO,43Inch,Y18 New Model	1	SNA
..3		BN81-12964A	A/S OPEN CELL-ADHESIVE SIL;ADHESIVE SIL,	1	SNA
..3		BN81-15464A	A/S OPEN CELL-ASSY PCB-SOURCE L;ASSY PCB	1	SNA
..3		BN81-15465A	A/S OPEN CELL-ASSY PCB-SOURCE R;ASSY PCB	1	SNA
..3		BN81-16288A	A/S-ADHESIV-A.C.F;ADHESIV-A.C.F,47.COF21	1	SNA
..3		BN81-16631A	A/S-IC DRIVER SOURCE;IC DRIVER SOURCE,46	1	SNA
..3		BN81-16632A	A/S-POLARIZER-C/F;POLARIZER-C/F,66.C4T57	1	SNA
..3		BN81-16633A	A/S-POLARIZER-TFT;POLARIZER-TFT,66.T4T58	1	SNA
.2		BN96-46280A	ASSY CHASSIS FRONT P;43UNU7400H,PC+ABS+E	1	SA
..3		BN60-00715C	SPACER-CONDUCTIVE;Y13 Slim F-LED 76,COND	4	SNA
..3		BN60-01611A	SPACER-CONDUCTIVE;NU7100,CONDUCTIVE FABR	3	SNA
..3		BN63-17418C	SHEET-PROTECTION COVER;NU7K,PO,T0.05,W30	3	SNA
..3		BN63-17876A	SHEET-PROTECTION COVER;PO,T0.05,W9,L100,	0	SNA
..3	AC155	BN64-04075A	CHASSIS-FRONT;43UNU7400H,PC+ABS+ED18%,V-	1	SNA
...4		0103-010808	RESIN PC ABS;NH-1210/K21294,BLACK,BK0007	290	SNA

3. Disassembly and Reassemble



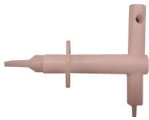
This section of the service manual describes the disassembly and reassembly procedures for the LED TV.



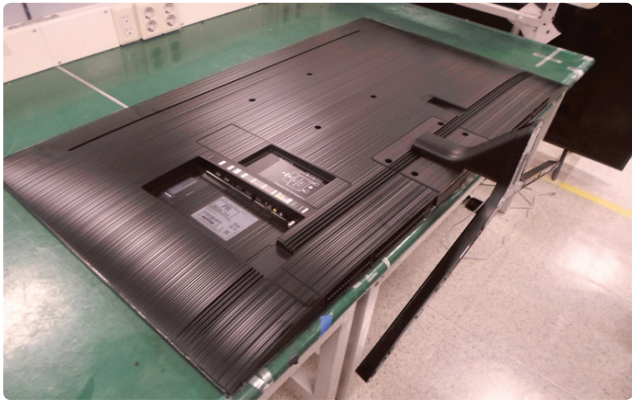

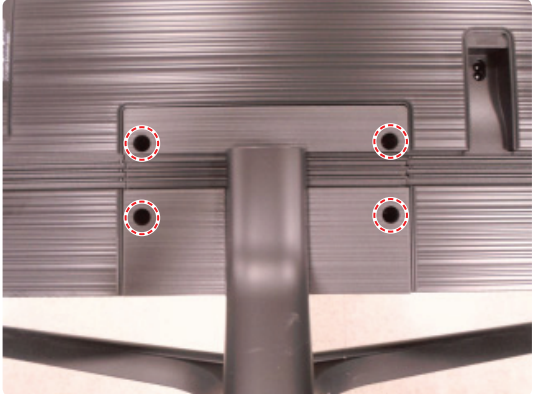
1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully.
 - Use the Samsung Open Jig and Cushion to remove the Rear Cover.
 - Open Jig Tool, Protection Cushion (curved models Only)
 - Recommended Torque for Cabinet/Stand screws : 22.0 ~ 26.5lbf
 - A strength of Torque can be changed depending on the situation.




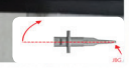
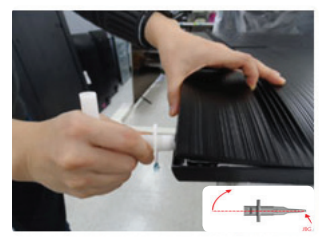


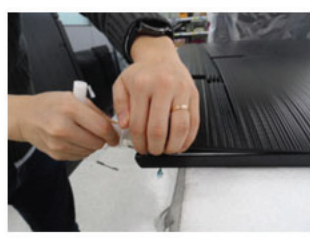
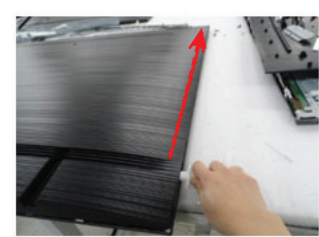


Open Jigs

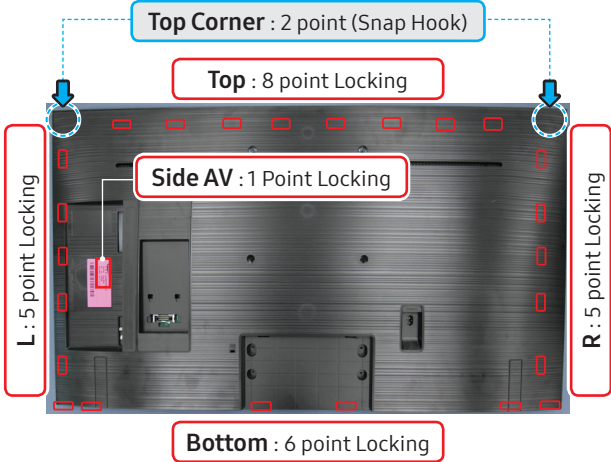
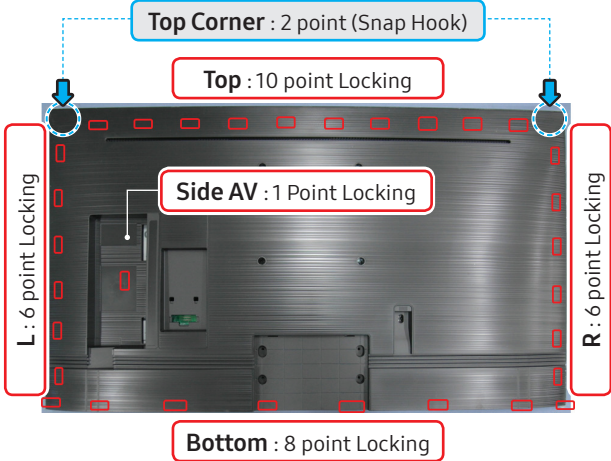
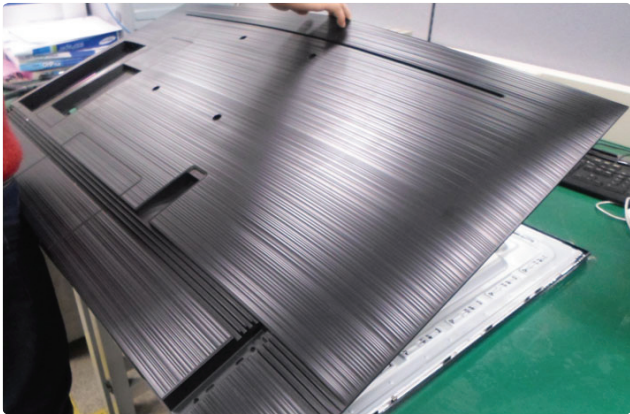
Please Use Lower Open Jig, for opening of Screwless rear cover.




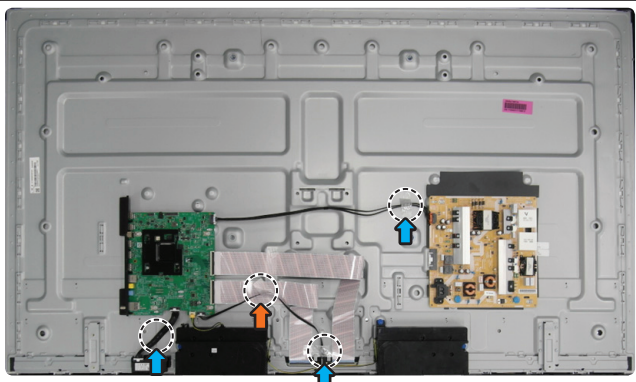

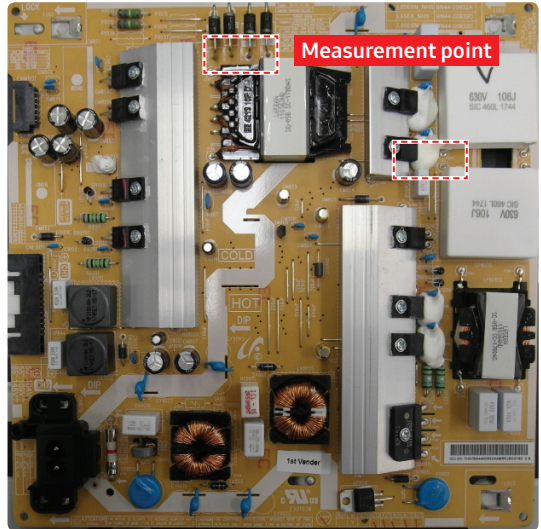
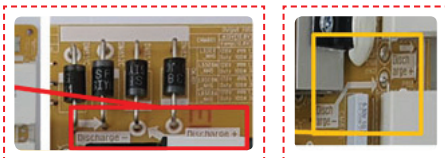
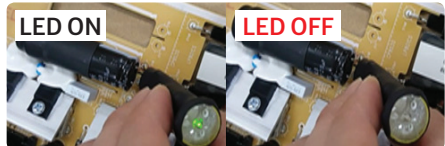
		
BN81-12884A	BN81-14946A	BN81-14946B

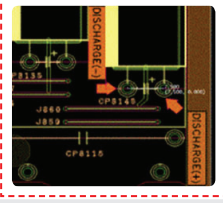
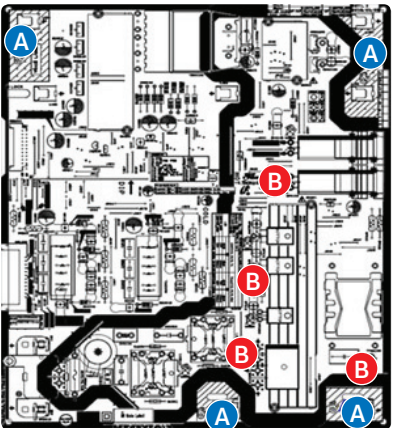



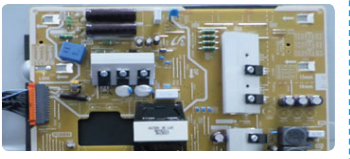
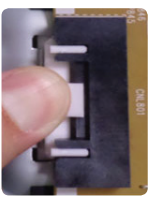
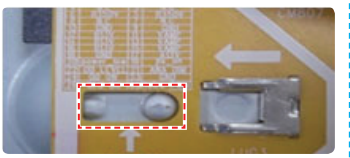
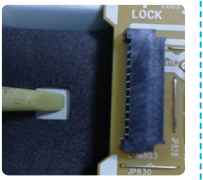
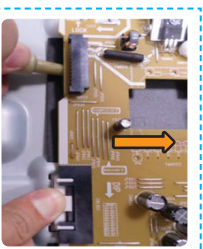
3-1. Disassembly

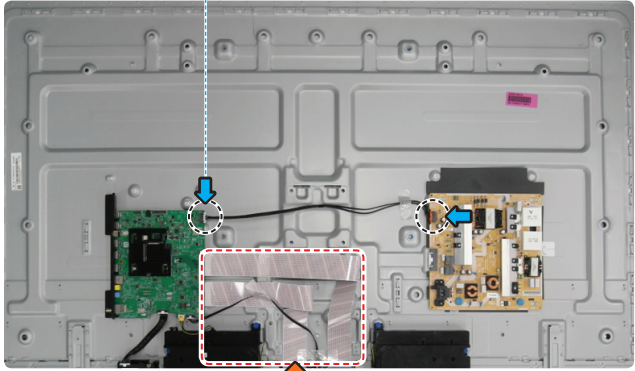
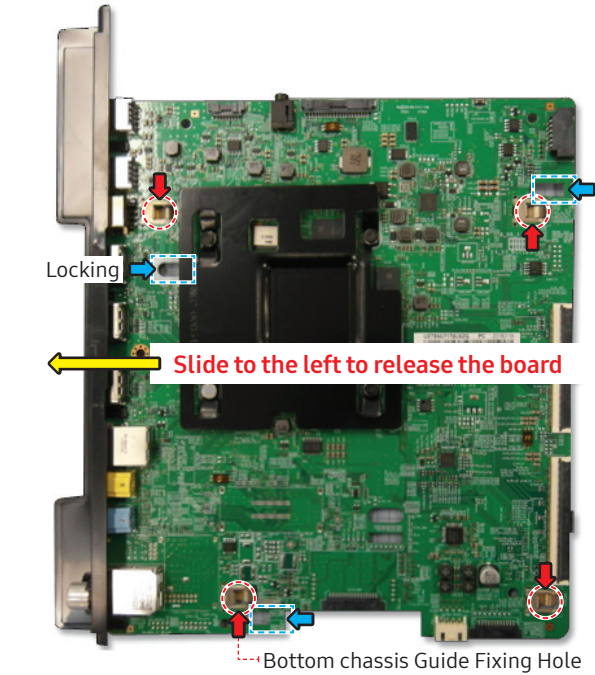
Description & Screws	Picture Description
<p>1 Carefully position the TV so that the screen is facing downwards.</p> <ul style="list-style-type: none"> Make sure to place the TV upon a soft cushion or any material that will prevent damage to the screen. 	
<p>2 Remove the screws connecting the stand to the TV. Then carefully remove the stand.</p> <ul style="list-style-type: none"> 43" : 4 EA 50" : 4 EA <p>Screws</p> <p> 6003-001334 SCREW-TAPTYPE : M4 x L14, ZPC(BLK) • SET + STAND</p>	

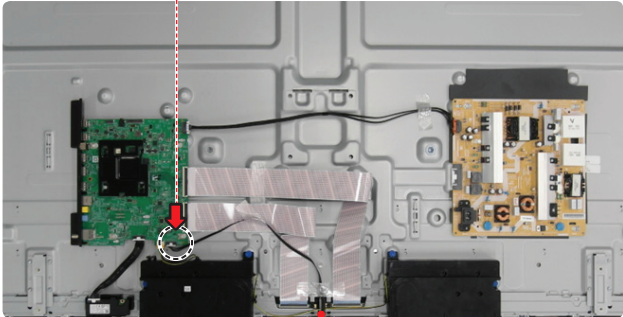
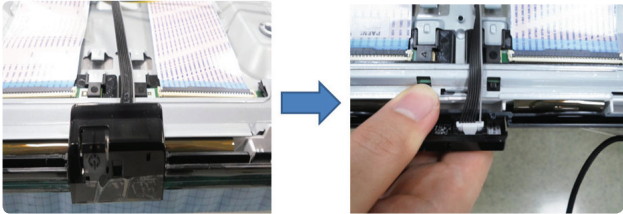
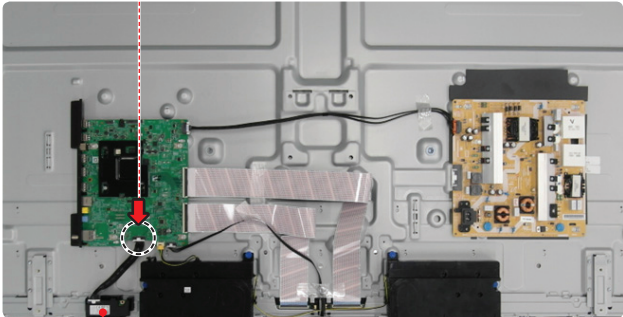
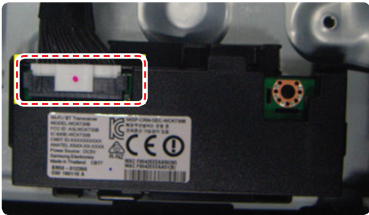
Description & Screws	Picture Description
<div>3-1 Removing the 'ASSY REAR COVER'. (Please follow 8 sequence on right.)</div>	<div></div> <div><div>1. Ready to insert open jig adjust jig edge to hole.</div><div>2. Insert open jig till red line.</div></div> <div></div> <div><div>3. Rotate open jig to 90-degree.</div><div>4. Lift jig to unlock wire hook on bottom.</div></div> <div></div> <div><div>5. Insert hand and retain gap.</div><div>6. Take out jig and insert in side gap.</div></div> <div></div> <div><div>7. Insert open jig till red line.</div><div>8. Disassemble Hooks of Cover Rear along the side.</div></div>

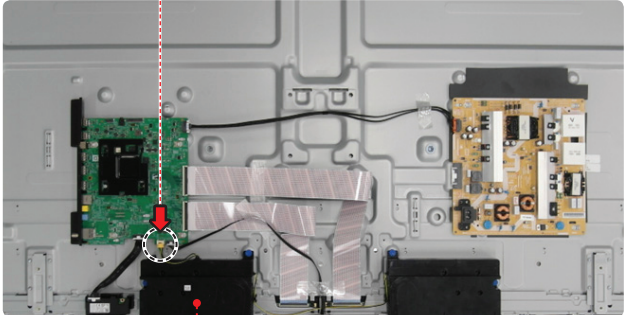
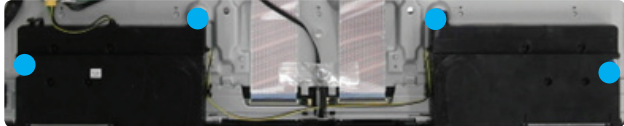
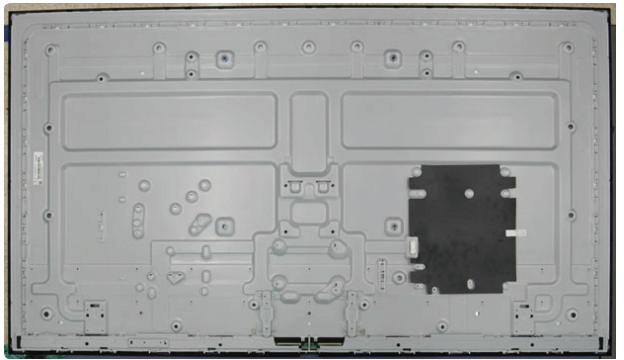
Description & Screws	Picture Description
<p>Locking tabs locations</p> <ul style="list-style-type: none">• 43"• 50"	 
<p>3-3 Lift top side then pull back to remove the back cover.</p>	


Description & Screws	Picture Description
<p>4 Remove the Electric tapes shown on the images.</p> <ul style="list-style-type: none">•  EMI Filament Tape (Dressing)•  Filament Tape(Dressing) <div> NOTE<ul style="list-style-type: none">• 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.</div>	
<p>5 Discharge Capacitors.</p> <ul style="list-style-type: none">• Before remove SMPS, Must discharge capacitors for your safety.• Check discharge point(1st, 2nd block) and then, discharge with discharge-Jig. <div>A/S-DISCHARGE-JIG  BN81-16292A</div>	 <p>Measurement point</p>  <p>LED ON LED OFF</p>  <p>◁Before discharging> ▷After discharging></p>

Description & Screws	Picture Description
<p>6 Remove the DC VSS-PD BOARD. (Please follow 5 sequence on right.)</p> <p>CAUTION</p> <p>Plz discharge SMPS before disconnect SMPS. And Refer to available touch point.</p>  <p>Before SMPS disconnect, Use discharge Jig on this point for SMPS discharge.</p>  <p><You can see  silk for touch></p> <p> Point A : Can touch (2nd GND & NO materials)</p> <p> Point B : Don't touch (1st Important materials)</p>	<ol style="list-style-type: none"> 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
<p>7 Remove the Cables.</p> <ul style="list-style-type: none"> ➡ LEAD CONNECTOR-POWER (SMPS - MAIN) ➡ FFC Cables 	<p>LEAD CONNECTOR-POWER Cables</p>  <p>FFC Cables</p>
<p>8 Remove the ASSY PCB MAIN BOARD.</p> <ul style="list-style-type: none"> 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'. 	 <p>Locking</p> <p>Slide to the left to release the board</p> <p>Bottom chassis Guide Fixing Hole</p>

Description & Screws	Picture Description
<p>9 Remove the ASSY IR/JOG unit.</p> <ul style="list-style-type: none">➡ LEAD CONNECTOR-SUB ASSY (MAIN - Function)	<p>LEAD CONNECTOR-SUB ASSY Cable</p>  <p>Assy IR/JOG</p> 
<p>10 Remove the ASSY NETWORK unit.</p>	<p>NETWORK Cable</p>  <p>NETWORK (BT/WIFI)</p>  <p><Disassemble BT/WIFI></p>

Description & Screws	Picture Description
<div>11</div> <div>Remove the ASSY SPEAKER P-FRONT.</div> <div><ul style="list-style-type: none">➡ ASSY SPEAKER P-FRONT Cable● : Assy SPK to Panel Hole 4 Points</div>	<div>ASSY SPEAKER P-FRONT Cable</div> <div></div> <div>ASSY SPEAKER P-FRONT</div> <div></div> <div>◁Hole 4 Points▷</div>
<div>12</div> <div>Completed the disassembly.</div>	<div></div>

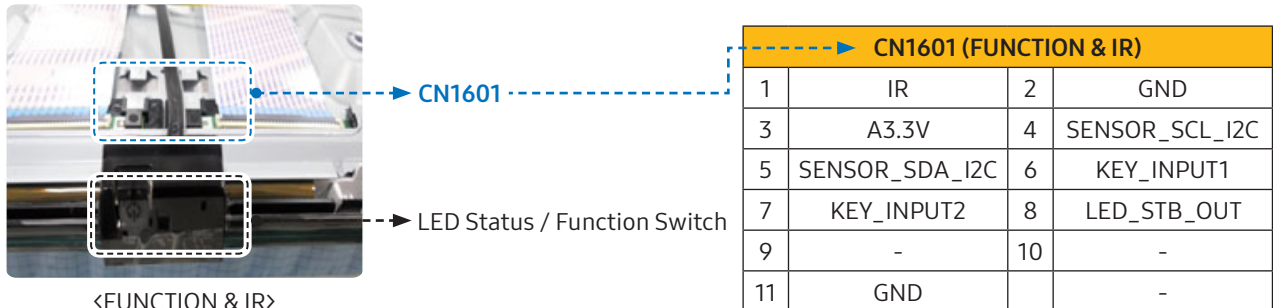
 **NOTE**

Reassembly procedures are in the reverse order of disassembly procedures.

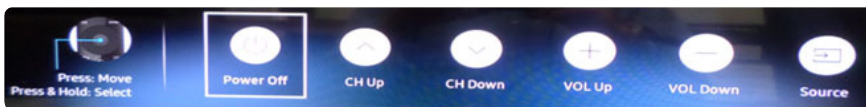
4. Troubleshooting

4-1. Power

4-1-1. Function Control Operation Test



1. TV in Standby
2. Check **LED Status**.
3. If **LED** is **OFF**
 - ✓ LED 1.7Vdc (pin 8) and VCC for 3.3Vdc (pin 3)
 - If missing suspect Function Assy/Cable/Main board.
4. If **LED** is **ON**
 - ✓ Switch Operation activates on screen display.

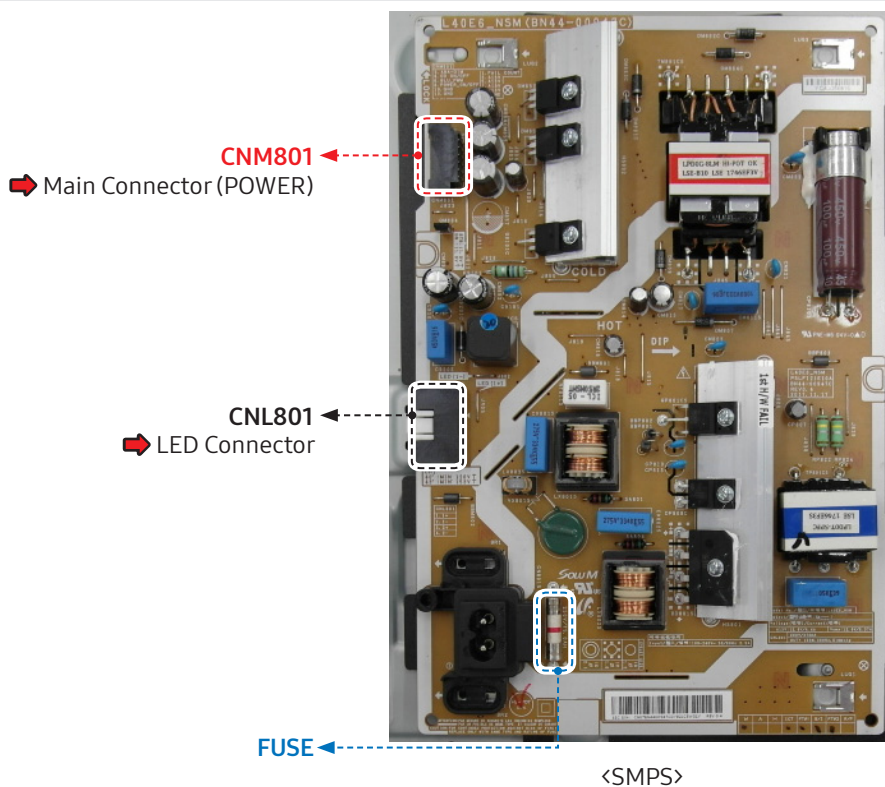


[On Screen Selections with Function Control]

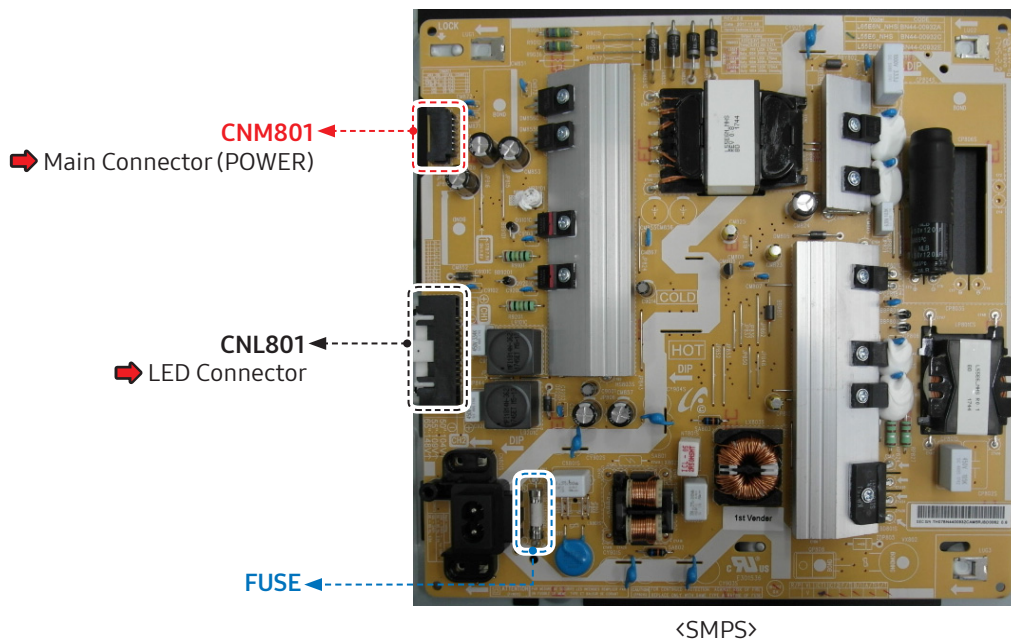
- If missing:
 - ✓ **Key_Input1 Pin 6** change to 0V with a command.
 - If wrong voltage or no change:
 - ✓ Switch for stuck or miss-operation.
5. Check **IR** operation with Standard Remote command changes.
(3.3V to 2.5V effective DC)
 6. **SDA, SCL** for effective 3.3Vdc (after power on)
 - If missing suspect Function Assy/Cable Assy./Main Assy.

4-1-2. TV POWER STANDBY TEST

- 43 inches



- 50 inches



CNM801 (MAIN Connector)											
1	FAIL COUNT	2	ANA-DIM	3	A13V	4	OD ON/OFF	5	A13V	6	PWM_BLU
7	A13V	8	Power On	9	A13V	10	GND	11	GND	12	GND

CNL801 (LED Connector)											
1	1+	2	1-	3	2+	4	2-	5	3+	6	3-
7	4+	8	4-	9	N.C	10	N.C	11	N.C	12	N.C

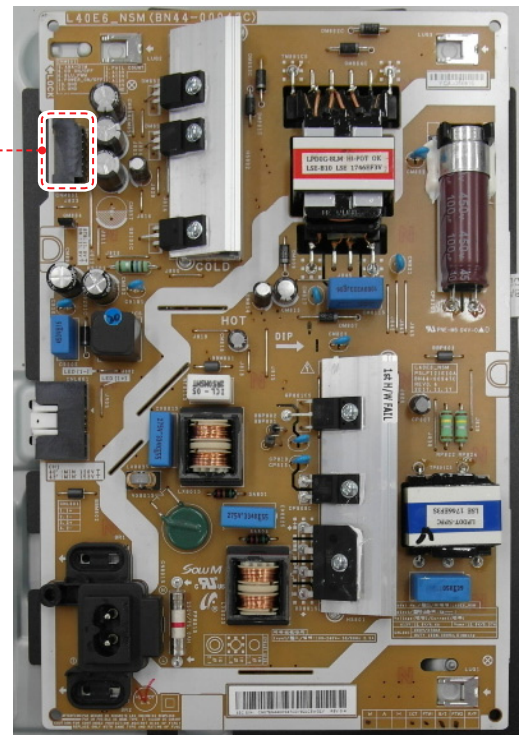
1. TV in Standby
 - ✓ **Standby LED Indicator**
2. If Not Lit:
 - ✓ AC120Vac Line
3. If missing:
 - ✓ 120Vac Source/Power Cord
4. If OK:
 - ✓ Resistance on SMPS **FUSE** after first removing AC power cord.
5. If fuses are open : replace **SMPS**
6. If fuses are OK:
 - ✓ **Standby: A13V** (Always On) to Main Board.
7. If any missing remove the SMPS connector to the Main Board.
 - ✓ Standby **A13V** again.
 - If OK replace the **Main Board**.
 - If still missing replace **SMPS**.

4-1-3. TV POWER ON SEQUENCE TEST

- 43 inches

➡ Main Connector (POWER)

CNM801

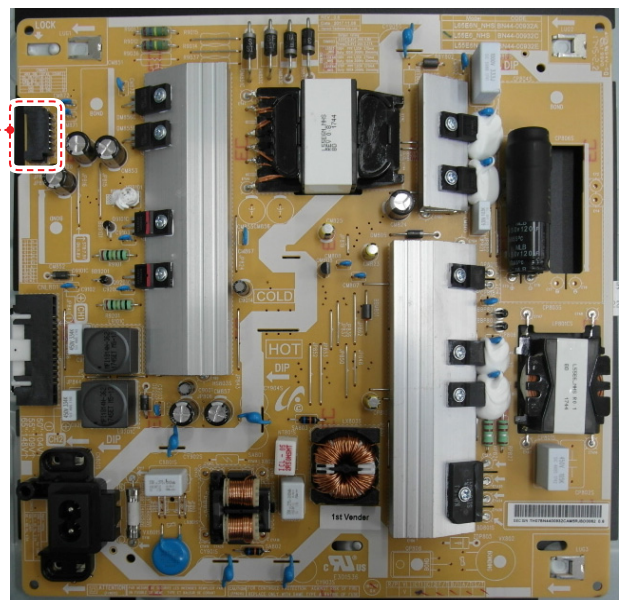


<SMPS>

- 50 inches

➡ Main Connector (POWER)

CNM801



<SMPS>

CNM801 (MAIN Connector)											
1	FAIL COUNT	2	ANA-DIM	3	A13V	4	OD ON/OFF	5	A13V	6	PWM_BLU
7	A13V	8	Power On	9	A13V	10	GND	11	GND	12	GND

1. Power TV On

- ✓ **POWER ON/OFF** .2Vdc (when off) changes to **3.3Vdc** (on)

**NOTE**

- There is an approx 20 second delay from PS-ON to off condition when the TV is powered off, and approx a 2 minute delay when the TV is first plugged into AC Power.

2. If voltage error or no change:

- ✓ Jog Function Control Test

3. If OK replace Main Board

- ✓ All **A13V** supplies for approx. **12.7VDC** (see **SMPS** label)

4. If any wrong voltages, remove SMPS connector to Main Board

- ✓ All **A13V** again for **12.7VDC** (see **SMPS STBY/ON** label)

5. If OK replace **Main Board**

6. If still wrong voltage replace SMPS

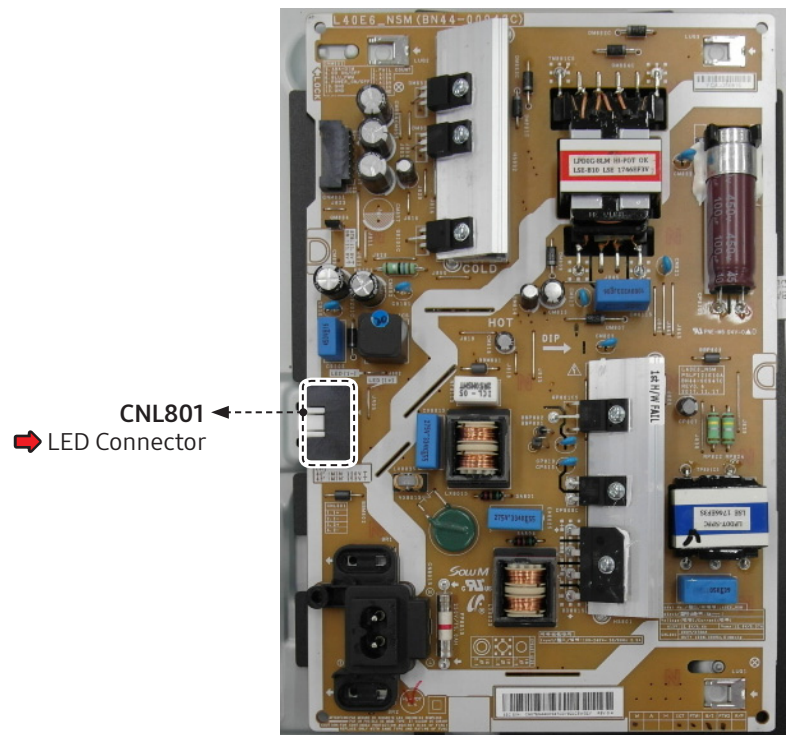
- ✓ **OD_ ON/OFF** (Over Voltage Detect) 3.3Vdc : Operating Normal

7. If OV or changing, an SMPS or Panel error exists. Perform Backlight Test.

- ✓ **BLU_PWM** Backlight On/Off & Dim Control: **1Vdc** – **3.3 Vdc** depending on backlight dimming level for video.
- If missing or error : Replace Main Board.

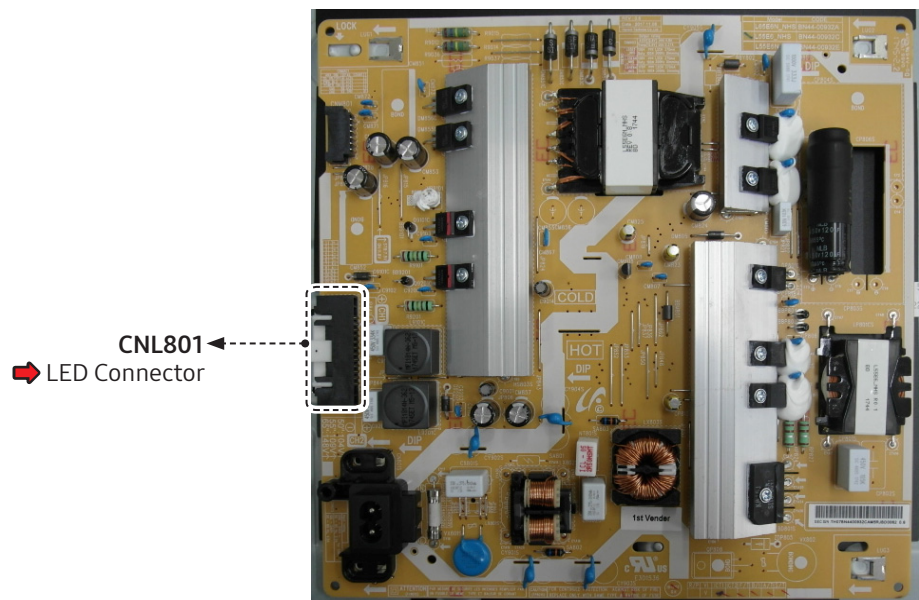
4-1-4. SMPS/PANEL BACKLIGHT TEST (Parallel Wired SMPS Panel Connections)

- 43 inches



<SMPS>

- 50 inches



<SMPS>

CNL801 (LED Connector)											
1	1+	2	1-	3	2+	4	2-	5	3+	6	3-
7	4+	8	4-	9	N.C	10	N.C	11	N.C	12	N.C

- 1. Activate Backlights Test** : Disconnect Lead Cable from Main to Power Supply.
 - ✓ TV Screen for active backlight LEDs.
- 2. If No BACKLIGHTS**
 - ✓ Minus (Control) pins & Plus (Supply) pins voltages on the Panel Connector. (**with fine test probe on left side of connector only for safety**)
 - If no pin voltages replace **SMPS**.
- 3. If BACKLIGHTS ON BUT PANEL SECTION(S) OFF**
 - ✓ The Supply Drive (+) pins and (-) pins. All should measure same.
 - If a Minus (-) pin measures low (near 0 volts), a string(s) of LEDs are likely open.
 - **Replace Panel.**
 - If a (+) pin measures low voltage and it's minus pin is low but not 0V.
 - Check for Defective **SMPS**

BACKLIGHT DIMMING PROBLEMS


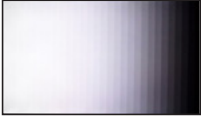
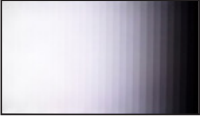
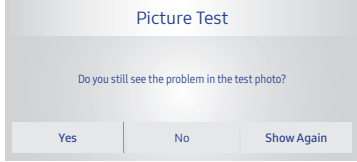
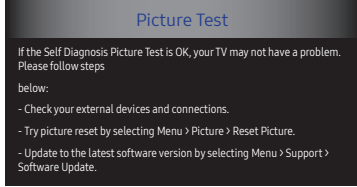
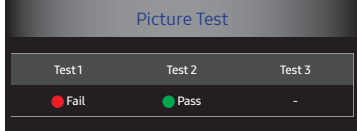
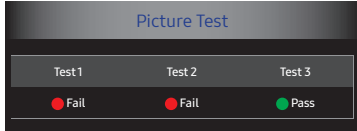

- Go to **Menu > Picture > Expert Settings > Backlight** and vary level (0 – 50)
- If no backlight changes observed:
 - ✓ Panel Connector **CNL801** minus (-) pin voltages and PWM_BLU voltages **CNM801** while changing backlight level.
 - If **minus (-) pin voltages** don't change, and **PWM_BLU** changes, replace **SMPS**.
 - If **PWM_BLU** doesn't change replace **Main/T-Con Board**.

Use: MUTE > 4 > 1 > 9 > EXIT to test Panel Vertical Backlight Sections in normal operation mode.

4-2. Video

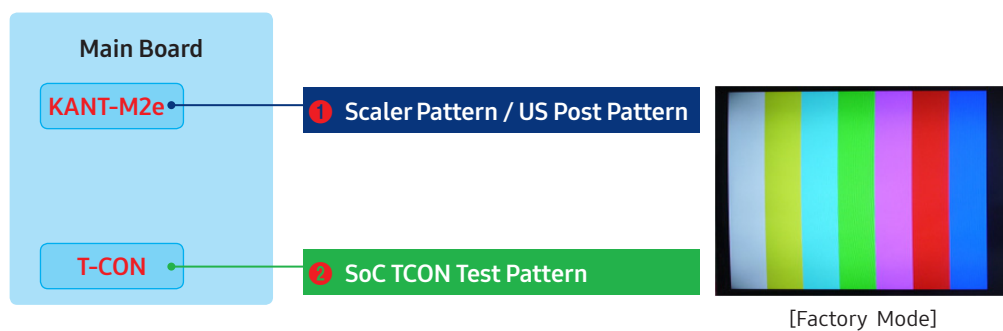
4-2-1. Customer Picture Test

■ MAIN/TCON BOARD

Main Section	Pre-FRC (T-CON)	Post FRC (T-CON)	Results	Problem
				
Pass	Pass	Pass		<ul style="list-style-type: none"> Check Signal Source and other inputs
Fail	Pass	Pass		<ul style="list-style-type: none"> Replace Main/T-CON Board
Fail	Fail	Pass		<ul style="list-style-type: none"> Replace Main/T-CON Board
Fail	Fail	Fail		<ul style="list-style-type: none"> Replace Main/T-CON Board or Panel

4-2-2. Check Test Patterns

- ENTER : **Factory mode** > **SVC** > **Test Pattern**



1. Verify "Scaler Pattern" and "US Post Pattern"
2. Verify "SoC TCON Test Pattern"

4-2-3. MAIN/T-CON BOARD

- Main Section > PRE FRC Section > POST FRC Section > T-CONSection > PANEL

■ Main Section

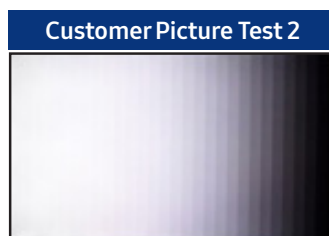


Video Operation

Generated on Main Section.

- **If OK:**
 - ✓ Source & Input Cables
 - ✓ Other inputs
- **If Noisy:**
 - ✓ Pre FRC Section Test Patterns

■ PRE FRC Section

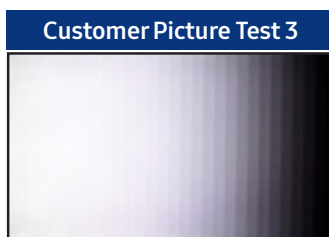


Video Operation

Generated at Pre FRC Section.

- **If OK:**
 - ✓ Replace Main/T-Con Board
- **If Noisy:**
 - ✓ Post FRC Section

■ POST FRC Section



Video Operation

Generated at Post FRC Section.

- **If OK:**
 - ✓ Replace Main/T-Con Board
- **If Noisy:**
 - ✓ Mute > 3 > 6 > 9 > Mute

■ T-CON Section



[May not be available for Larger models over 70 inches.]

Video Operation

Generated at T-CON Section.

1. **If OK:**
 - ✓ Replace Main/T-CON Board.
2. **If Noisy:**
 - ✓ Main/T-CON Board
 - ✓ Panel

■ PANEL



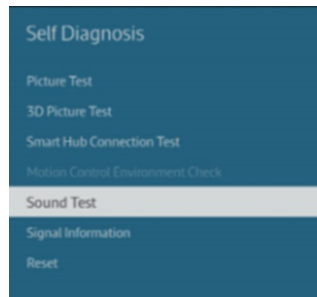
- Check Panel
1. **If Noisy Video:**
 - ✓ Soc T-CON Pattern in Factory Mode
 - Use type of Noise observed (Bars, single lines, video distortion, etc to help.)
 - If noise is only on one half of screen check / swap panel cables.
 - Verify Defective Panel Cables, TV Main/T-CON Board or Panel.

4-3. Audio

- Source (One Connect Mini) > Main Board > Speakers

■ Source (One Connect Mini)

- **No TV Sound**
 - ✓ Menu > Audio > Speaker Settings set to **TV Speaker**
- **Noisy / Distorted TV Audio**
 - ✓ Customer Menu > Support > **Sound Test**



- **If Sound Test FAILS : (Missing / Noisy Audio)**
 - ✓ Speakers (compare resistance/quality)
 - Compare audio level out to speakers with multi meter.
 - ✓ Replace defective Speakers or Main Board or Cable.
- **If Sound Test OK :**
 - ✓ Audio Source & External Cables
 - ✓ With external Audio Generator (device or App)
 - ✓ Other Inputs
 - ✓ One Connect Mini
- **Optical Digital Out Errors**
 - ✓ Red light from Optical Digital Out.
 - If missing replace One Connect Mini

■ Main Board

- **No HDMI Audio**
 - ✓ Source / HDMI Cable & One Connect Mini Connectors
 - Swap with other HDMI Inputs / Sources.
 - Perform **EDID Write** in Factory Mode (Can restore missing HDMI Audio).
 - ✓ Bulletins and Latest firmware on TV.
 - If not restored replace One Connect
 - Check Audio Format PCM / Dolby based on external Receiver
- **ARC Issues**
 - ✓ HDMI Cable is input to the ARC Designated HDMI port.
 - ✓ ARC (HDMI Control) is enabled on the external Receiver.
- **Bluetooth Audio "Sound Share" Connection Issues**
 - ✓ Sound Bar is in TV Mode.
 - To Connect, Press & Hold Play Button until Sound Bar pairing mode begins.

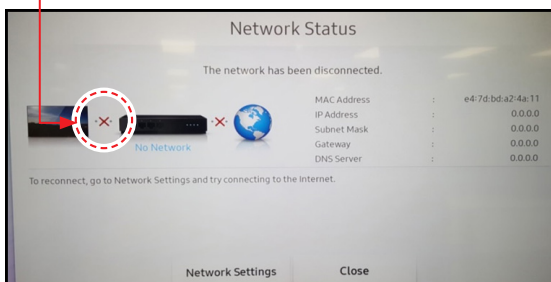
4-4. Network



■ TV to Router "Failure"

- ✓ **Check** Network Status

Check Network Status (TV ~~→~~ Router ~~→~~ Internet)



- ✓ **Wired & Wireless MAC Address** in Customer Support Menu.
 - **No Wired MAC Address:** Replace **Main Board**.
 - **No Wireless MAC Address:**
- ✓ **Module cabling & voltages** from Main Board.
 - If operating voltages are OK but signal missing.
 - ✓ Replace **WiFi Module** (WiFi/Bluetooth Module).
- ✓ **Proper security passcode**
- ✓ **Check** Wi-Fi signal strength at TV (use WiFi Analyzer or similar App).
 - Try another source (Hot spot or Test Router)
- ✓ **Check** related Bulletins.
- ✓ **Check** **Factory Mode** → **SVC** → **Info** → **WiFi Error Count** (replace module for high error counts).

■ Router to Network "Failure"

- ✓ **Check** Network Status

Check Network Status (TV → Router ~~→~~ Internet)



- Instruct the customer the TV has proper connection to the router and is likely OK.
- ✓ **Check** other devices using network are OK. If they test OK this does not mean the TV should be working.
- Try another source (Hotspot) to test/show TV Network operation.

4-5. Smart Hub

- [Network Test/Gateway Test](#) > [DNS Test](#) > [ISP Blocking](#) > [Samsung Server Test](#) > [Samsung Apps Test](#)



Go to [Menu](#) > [Support](#) > [Self Diagnosis](#) > [Smart Hub Connection Test](#)

■ Network / Gateway

- If it Fails:
 - ✓ TV to Router Connection Test in "[Network Trouble shooting](#)"

■ DNS Test

- If it Fails:
 - ✓ **DNS** setting in "Network Settings"
- If DNS is set manually:
 - ✓ Settings are correct (may be set to 8.8.8.8 to prevent Netflix issues)
- If it still fails:
 - ✓ DNS Test with setting to Auto Mode
- If it fails both Manual & Auto problem is ISP or Router.

■ ISP Blocking

- If it Fails:
 - ✓ Internet Service Provider is Active.
 - ✓ With DNS setting at 8888.
 - ✓ With Hot Spot.

■ Samsung Server Test

- If it Fails:
 - ✓ Network Status.
- If OK:
 - ✓ Reset Smart Hub.
 - ✓ Terms of Agreement are accepted.

■ Samsung Apps

- If it Fails:
 - ✓ **Reset** Smart Hub.
 - ✓ Samsung Apps load correctly.
 - ✓ Perform "**Apps Reset**" in Factory Mode.
 - ✓ Go to Smart Hub and complete Terms of Agreement and set up information.
 - ✓ Samsung Apps load correctly.
 - ✓ Before selecting an App, allow Apps to load or failure wilre-occur.

4. Troubleshooting

For Netflix Operation/Connection Issues:

- ✓ **Check** Certificate & Netflix ESN Status in Factory Mode.

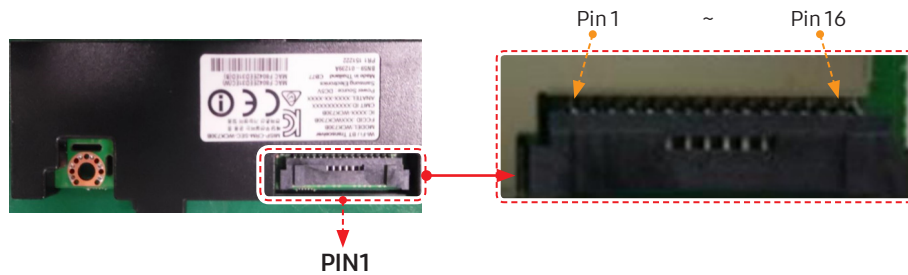


- If Certificate and ESN exists, "CO", "Nfo", change the **DNS** to **8.8.8.8**
- If Certificate is missing, "C/" replace the TV's Main Board.
- If ESN number is missing: **NF**/ do not replace the Main Board.
 - Reset TV Clock and check for correct Time & Date. Netflix relies on correct settings.
 - Reset Smart Hub. / Reset Apps In Factory Mode.

For Streaming Issues:

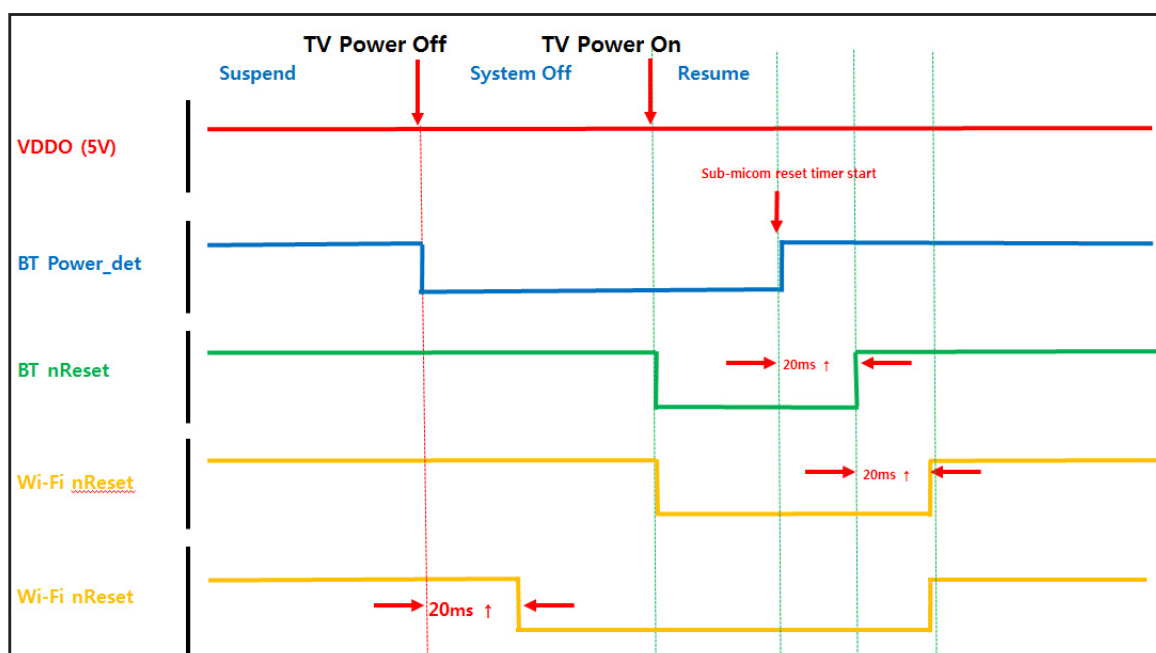
- Go to TV Web Browser / Go to speedof.me / testmy.net
 - ✓ **Check Speed** for at least 5 Mbps(HD streaming) / 25 Mbps (4K Streaming).
 - ✓ **Check Latency** for less than 50ms.

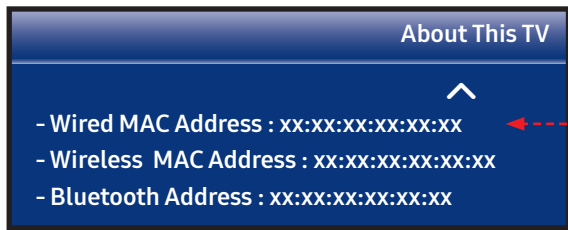
4-6. Bluetooth / WiFi Module



Pin Description

Pins	Name	Interface	I/O	Description	Standby	Power ON
1	BT_RESET	Digital	I	BT Block Reset	3.3 Vdc	3.3 Vdc
2	BT_POWER DET	Digital	I	BT power detect	0	3.3 Vdc
3	BT_WAKE_UP	Digital	O	BT host wake up	3.3 Vdc	3.3 Vdc
4	GND	Analog	-	Ground	NC	
5	BT_USB DM	Digital	I/O	BT USB interface negative	0	0.7V eff.dc BT Sig (DM) 4V p-p
6	BT_USB DP	Digital	I/O	BT USB interface positive	0	2.5V eff.dc BT Sig (DM) 4V p-p
7	GND	Analog	-	Ground	0	0
8	BT_3D_SYNC_IN	Digital	I	BT VSYNC input	0V	0V
9	WIFI_USB_SUSPEND	Digital	I	WiFi USB PHY On/Off Ctrl	0V	3.3 Vdc
10	GND	Analog	-	Ground	0	0
11	WIFI_USB DP	Digital	I/O	WiFi USB interface positive	3.3 Vdc	.02V eff.dc WiFi Sig (DP) 0.5V p-p
12	WIFI_USB DM	Digital	I/O	WiFi USB interface negative	0	.02V eff.dc WiFi Sig (DM) 0.5V p-p
13	GND	Analog	-	Ground	0	0
14	VCC	Analog	I	DC +5V Power supply input	5 Vdc VCC	5 Vdc VCC
15	WIFI_WAKE UP	Digital	O	WiFi host wake up	3.3 Vdc	3.3 Vdc
16	WIFI_RESET	Digital	I	WiFi Block Reset	3.3 Vdc	3.3 Vdc





✓ Missing or Error : Replace **Main Board**.

Go to **Menu** > **Support** > **About This TV**

- ✓ Wired MAC Address (missing or error - replace Main Board)
- ✓ Wireless MAC Address
- ✓ Bluetooth Address
 - If **Bluetooth Address** or **Wireless MAC Address** are missing or errors exist.
- ✓ BT & Wi-Fi Connector Voltages.
 - If Voltages are OK but no BT or Wi-Fi Signals voltage(s), replace defective Module.

4-7. Factory Mode

■ Setting TV into Factory Mode



AA81-00243A

Factory Remote

1. Power TV ON.
2. Select TV Source.
3. **Info** → **Factory**.
4. Use **MENU** for return.

Samsung IR Remote

1. TV Power Standby.
2. Press as follows.

- Remote Button

NTSC **MUTE** → **1** → **8** → **2** → **POWER**

PAL **INFO** → **MENU** → **MUTE** → **POWER**

■ Important Items

- **Option** (must set Option Bytes when replacing Main Board.)
- Option → **Factory Reset** (returns TV to out of box condition. Does not reset Apps.)
 - **Factory Reset** : Select Factory Reset

Factory Reset	
Type	50D6AU5NN
Local Set	ED_VIET
SW Model	UNU74A0
BOM Model	7800
TUNER	-
Ch Table	NONE

← Ex. Sample Model

- SVC → **Test Patterns**
- SVC → Info → **ER Count** (Important to check for errors.)
 - Resets to 0 with Factory Reset.

Setting Option Bytes

1. Enter Factory Mode with **Service Remote** (only).
2. Check Option Byte Table located on **GSPN** (Fast Track or Tips).
3. Select each item to change.
4. Soft power TV Off to load.

First Screen Appearing in Factory Mode

- Ex. Sample Model

Home	Updates	Exit
Option		
Control		
Debug		
SVC		
ADC/WB		
Advanced		

T-KTMAKUC-0604.10
T-KTMINTV-0045

TIZEN-3.0-MAIN2017-KantM-RELEASE_20170104.1 (Debug)

Main SPI version : 0
OCM SPI version : 0
BT Version : BLUETOOTH-VER-0653
E-Manual : KTMAISCL-0.0.5
Blaster Version : A61206-U61001-170201
E-POP Version : KANTMUD-12.28.3
EDID SUCCESS
HDCP SUCCESS
CALIB : AV / COMP / PC / HDMI /
Option : 55A1AU05M,U5,8000,NONE

FRC-[KANT-M USIT][120Hz][HW:0x0F]
DIMMING-[EDGE-8X1][03]
TCN-[KANT-M] FW[801B] DATA[M55ABU0F15]

Model : UN55MU8000
Wired MAC SUCCESS
Wireless MAC SUCCESS
WiFi Version : 4.5.30.015.046.fw4646

CO NIO WO M/ D/ H2 PO AO O S/ N/ RO SC/ SIOWS/ DI/ UO I/ (T)
NS//
Factory Data Ver: 17063 / Fixed Ver: 1706
EERC Version : B2 / WB Ver: 1

CPLD/LD: N/A
SmartControl : A0700200
Board Info : 2016/12/19/PVR/1/BN41-02570A
Factory Reset In Production : ----
SID : ?
Date of purchase : --/--/----

QUICK TIPS:-

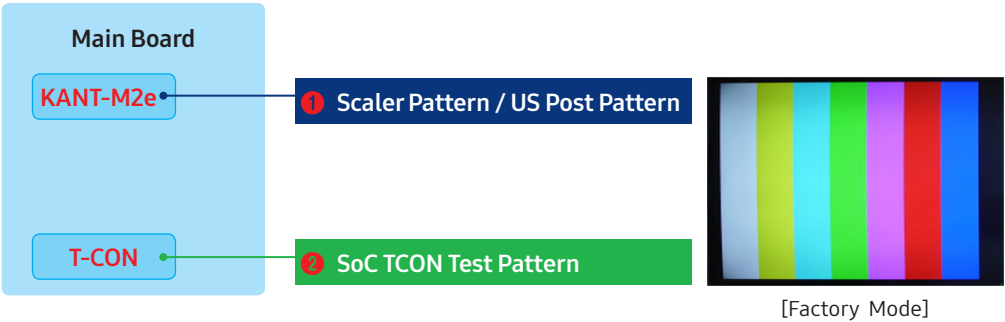
- * Set value of HV Flip from shell prompt without launching factory app. For detail check Updates window
- * Launch Factory:- "org.tizen.factory"
- * Get value of any item from shell prompt without launching factory app. For detail check Updates window
- * Launch Factory:- "org.tizen.factory"
- * Set value of type localset and model from shell prompt along with factory reset :-
"launch_app org.tizen.factory type value localset value model value"
- * Use channel up/down to toggle items when at last depth
- * Use arrow right/left to toggle values when at last depth
- * Home button can be used to jump directly to home screen of factory app from any level
- * Exit button can be used to Exit factory app without launching aging app

Slide Details

- Sample Model : UN55NU7100FXZA

Home	Updates	Exit		✓ Testing Items
Option			T-KTM2LAKUC-XXXX.XX	✓ Micom Version
Control			T-KTM2INTV-XXXX	✓ Sub Micom
Debug			TIZEN-X.X.-MAIN201*-KANT-M2-RELEASE_XXXXXXXX.X (Debug)	✓ Tizen
SVC			BT Version : BLUETOOTH-VER-XXXX	✓ BT Version
ADC/WB			E-Manual:----	✓ E-Manual
Advanced			Blaster Version : Not support	✓ Blaster Version
			E-POP Version : KANTUD-XX.XX.X	✓ E-Pop Version
			EDID SUCCESS	
			HDCP SUCCESS	
			CALIB : AV/COMP/PC/HDMI/	
			Option : 55A6AU0NN,US,7100,NONE	
			FRC-[KANT-M2 xxx][120Hz][HW:0x0F]	
			DIMMING-[EDGE-xx1][03]	
			TCON Version:[Kant-M2] FW[xxxx] DATA[xxxx]	
			TCON Version:[KANT-N2] FW[xxxx] DATA[xxxx]	
			SPL Flash S/N: xxxxxxxxxxxxxxxx	
			Model : UN55NU7100F	
			Wired MAC SUCCESS	✓ Wired MAC Success
			Wireless MAC SUCCESS	✓ Wireless MAC Success
			WIFI Version : x.x.xx.xxx.xxx.xxxxxx	
			CO NfO WO MO D/ HX P/ AO O S/ N/ RO SC/ SiO(P) NS//	✓ CO Status ("O" Operational)
			Factory Data Ver : XXX / Fixed Ver : XX	
			SID : ----	
			Date of purchase : --/------	

■ SVC ➤ Test Patterns



- 1. Verify "Scaler Pattern" and "US Post Pattern".
- 2. Verify "SoC TCON Test Pattern".

Scaler Pattern	OFF
US Post Pattern	OFF
FRC Pre Pattern	0
FRC Post Pattern	0
SOC TCON Pattern	0
SOC TCON Pattern Level	255
FRC OSD Pre Pattern	0
FRC OSD Post Pattern	0
FRC2 Pre Pattern	0
FRC2 Post Pattern	0
SOC TCON2 Pattern	0
SOC TCON2 Pattern Level	255

■ SVC > Info > ER Count

WD Count	0	Serdes Error Count	0
Power Fail Count	0	Serdes Reset Count	0
AR Count	0	Serdes WatchDog On/Off	ON
RS Count	3	SMPS FET Fail Detect	0
WIFI NO DETECTION COUNT	0		
WIFI DETACHMENT COUNT	0		
BT ER Count	0		
BT NO DETECTION COUNT	0		
BT DETACHMENT COUNT	0		
BT MGT OPEN FAIL COUNT	0		
BT MGT DISCONNECT COUNT	0		
Camera ER Count	0		
FRC3D Emergency Reboot On/Off	ON		
FRC3D ER Count	0		
Fan Error Count	0		

- **WD Count:** Watch Dog (Hardware related issue).
- **AR Count:** Auto Reset (software (i.e. Apps) related).
- ✓ **important ErrorCount** Status Screen.
- Verify each item listed.

■ **Factory Mode > Control > EDID**

- 1. Remove ALL **HDMI** connections.
- 2. Factory Mode → Control → **EDID**. (→ **Enter** Key)

Option	EDID
Control	Sub Option
Debug	Hotel Option
SVC	Shop Option
ADC/WB	Asia Option
Advanced	Sound

- 3. Select EDID/OFF to ON. (→ **Right Arrow** Key)

EDID ON/OFF	ON
-------------	----

- 4. Select EDID WRITE ALL. (→ **Enter** Key)

EDID WRITE ALL	Success
----------------	---------

- 5. Wait to Success. (→ **Right Arrow** Key)

EDID WRITE ALL	Wait
----------------	------

- 6. Confirm EDID WRITE ALL Success. (→ **Menu** Key)

EDID WRITE ALL	Success
----------------	---------

4-8. Replacing Main Board

When replacing Main Board, certain values needs to be manually input in Factory menu to complete the replacement.

■ Steps to Replace Main Board

1. Enter Factory Menu (Use Factory Remote only).

- Power TV on : **Select TV Source > Info/Factory > Option**

2. Change Each value according to the TV Model.

- Type**, **Local Set**, **SW Model**, **BOM Model** must be set to correct value.

• Sample Model : UA50NU7800KXXV

Type

- Check Panel label (located in the back chassis of panel) and choose same Type code from the list.



<Panel Label>

Home	Updates	Exit
Factory Reset		
Type	50D6AU5NN	
Local Set	ED_VIET	
SW Model	UNU7400	
BOM Model	7800	
TUNER	-	
Ch Table	-	
MRT Option		
Production Option		
Engineer Option		
55A1QU7QN	55L1QU7QN	
75L1QU7QN	55A1QU8XN	
55L1QU7QN	55A1QU7QN	
65A1MU9TN	50D6AU5NN	
65A1QU7QN	65L1QU7QN	
65A1QU8XN	65L1QU8XN	
55A6AU0NN	55L6AU0NN	

<Type list in the Factory Menu>

Local Set

- Set according to Local region(country).

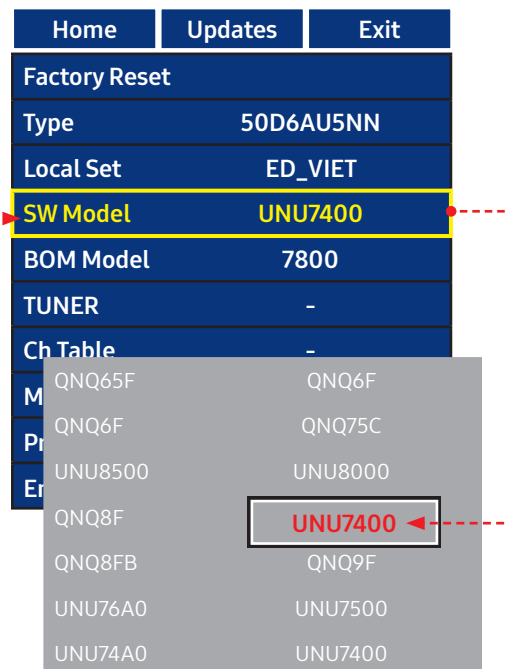
4. Troubleshooting

SW Model

- Check Label Rating of the TV(located on the Rear Cover).
 - SW Model is digits **after "/"** in **Version No.**
 - Choose same SW Model code from the list.



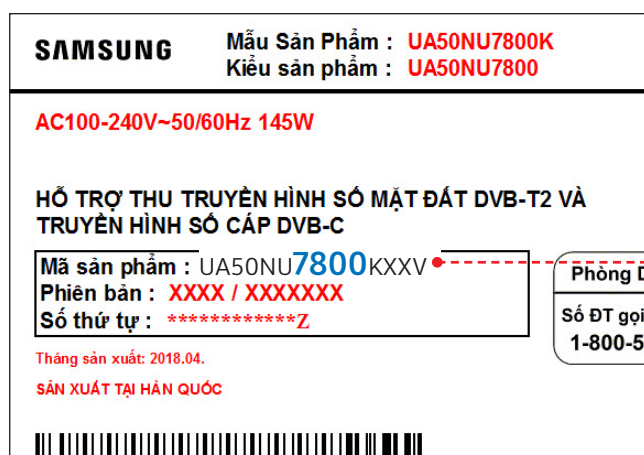
<"SW Model" in Label Rating>



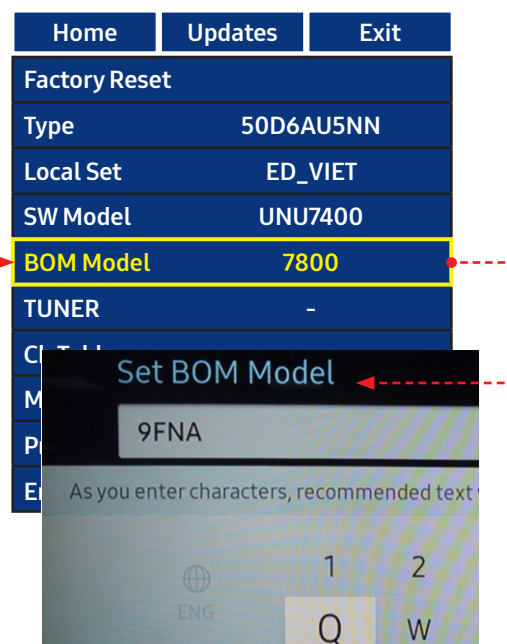
<SW Model list in the Factory Menu>

BOM Model

- 6th~9th Digit of Model Code.
 - Check 6th~9th digit of Model code and type in.
 - e.g.) Model Code : UA50**NU7800**KXXV then BOM Model : **7800**



<"BOM Model" in Label Rating>



<BOM Model input in Factory Menu>

4-9. Factory Mode Adjustments

4-9-1. Entering Factory Mode

- To enter [Service Mode] press the remote-control keys in this sequence :

- With Consumer Remote (IR Remote)

✓ Remote Button :

NTSC POWER OFF → MUTE → 1 → 8 → 2 → POWER ON

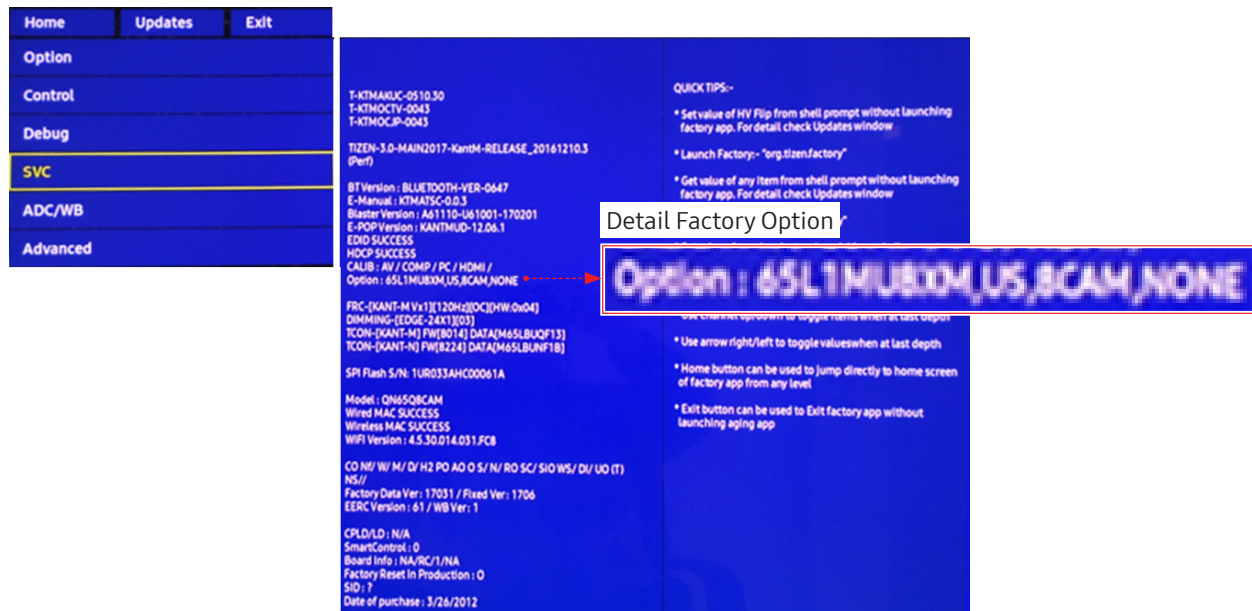
PAL POWER OFF → INFO → MENU → MUTE → POWER ON

- With Factory Remote

INFO → FACTORY

- The following screen appears.

- Please refer to "Detail Factory Option" page for details.



4-9-2. Detail Factory Option



NOTE

If you replace the main board with new one, please change the factory option as well.
The options you must change are "**Type**".

■ UA43NU7800KXXV

• PANEL / SMPS / MAIN Information

Multi BOM	PANEL			SMPS		MAIN	
BA02	Vendor	BOE		Vendor	SOLUM	ASSY CHASSIS	ASSY PCB MAIN
	Code	Spec	Type	Code	Spec		
	BN95-04756C	CY-NN043HGEV4V/H	43B6AU5NN	BN44-00947D	L40E6N_NSM	BN91-19930P	BN94-12963P
AA01	Vendor	AUO		Vendor	SOLUM	ASSY CHASSIS	ASSY PCB MAIN
	Code	Spec	Type	Code	Spec		
	BN95-04755C	CY-NN043HGAV4V/H	43L6AU5NN	BN44-00947D	L40E6N_NSM	BN91-19777P	BN94-12840P
BB04	Vendor	BOE		Vendor	SOLUM	ASSY CHASSIS	ASSY PCB MAIN
	Code	Spec	Type	Code	Spec		
	BN95-04756G	CY-NN043HGEVBV/H	43B6AU6NN	BN44-00947D	L40E6N_NSM	BN91-20344P	BN94-13316P
DA05	Vendor	INX		Vendor	SOLUM	ASSY CHASSIS	ASSY PCB MAIN
	Code	Spec	Type	Code	Spec		
	BN95-05153C	CY-NN043HGNV4V/H	43D6AU5NN	BN44-00947D	L40E6N_NSM	BN91-20356P	BN94-13326P
AB03	Vendor	AUO		Vendor	SOLUM	ASSY CHASSIS	ASSY PCB MAIN
	Code	Spec	Type	Code	Spec		
	BN95-04755E	CY-NN043HGAVAV	43L6AU6NN	BN44-00947D	L40E6N_NSM	BN91-19777U	BN94-13295U

• Factory Option

Local Set	BOM Model	Front Color	S/W Model
ED_VIET	7800	U-F-NU71-43	UNU7400

■ UA50NU7800KXXV

• PANEL / SMPS / MAIN Information

Multi BOM	PANEL			SMPS		MAIN	
DA01	Vendor	INX		Vendor	HANSOE	ASSY CHASSIS	ASSY PCB MAIN
	Code	Spec	Type	Code	Spec		
	BN95-04754C	CY-NN050HGNV4V/H	50D6AU5NN	BN44-00932E	L55E6N_NHS	BN91-19778P	BN94-12841P
AA02	Vendor	AUO		Vendor	HANSOE	ASSY CHASSIS	ASSY PCB MAIN
	Code	Spec	Type	Code	Spec		
	BN95-04753C	CY-NN050HGAV4V/H	50L6AU5NN	BN44-00932E	L55E6N_NHS	BN91-19931P	BN94-12964P

• Factory Option

Local Set	BOM Model	Front Color	S/W Model
ED_VIET	7800	U-F-NU71-50	UNU7400

4-9-3. Factory Data

■ Option

Factory Menu Name		Data	Range
Factory Reset		-	
Type	43"	43B6AU5NN; 43L6AU5NN, 43B6AU6NN, 43D6AU5NN	
	50"	50D6AU5NN; 50L6AU5NN	
Local set		ED_VIET	
SW Model		UNU7400	
BOM Model		7800	
TUNER		-	NTSC, ATSC
Ch Table		NONE	
MRT Option			
Engineer Option			

■ Control

Factory Menu Name		Data	Range
EDID			
EDID ON/OFF		OFF	
EDID WRITE ALL		...	
EDID WRITE HDMI		...	
EDID WRITE PC		...	
HDMI EDID Ver		...	
HDMI EDID Port		...	
Sub Option			
RS-232 Jack		UART	
EXT Link Support		ON	
Serial Log On/Off		OFF	
Watchdog		ON	
FRC Monitoring		OFF	
Checksum		0x0000	
Fast Boot In Production		ON	
USB Serial		OFF	
COLOR IC TYPE		RISF315	
Info Link Server Type		development	
Info Link Country		None	
TTX Group		UserOSD	

Factory Menu Name	Data	Range
Visual Test	Diabie	
OPTION_SWU		
RF Remocon Support	OFF	
CDD mode	...	
DPMS Support	OFF	
T-CON Device	Kant-M2	
RM Server Type	Operating	
LMF LEAVE THRESHOLD	160	
LMF TRIM THRESHOLD	120	
LMF TERM THRESHOLD	80	
EOS Click	OFF	
BP PMS Reset	1	
FAnet Thread	2	
CI CPLD Version	1	
ACM_MC	ON	
UNIQUE TRIPLET	ON	
FS_FAV	OFF	
Private Range USE	ON	
SCSA Support	OFF	
OCM Reboot	ON	
SPI Protection		
FKP Server Type	Default	
OCM Support	ON	
Preloading Support	ON	
Multitasking Support	ON	
Browser preloading Support	FULL	
EXT IR Boot Support	OFF	
APP BOOTING SUPPORT	ON	
NagSam Support	OFF	
EWBS Support	OFF	
MVPD MBR Provider	COMCAST	
cloudscan Always Upload	OFF	
FirstScreen Cach Size	300	
Hotel Option		
Hospitality Mode	OFF	
Power On		
Menu OSD		

4. Troubleshooting

Factory Menu Name	Data	Range
Operation		
Music Mode		
External Source		
Eco Solution		
Cloning		
Shop Option		
Exhibition Mode	OFF	
Peak Mode	ON	
Metadata	ON	
Shopmode Picture Reset	ON	
Asia Option		
Unbalance	OFF	
AF Level adjust	0	
TX Power Level	0	
Mono Last Memory	OFF	
H Shaking	0	
SOUND		
High Devi	OFF	*If the broadcast signal is not good, TV will complement the characteristics of the signal (most use when weak signal comes from the growing area countries)
Carrier_Mute	ON	*If the noise comes from weakness-electromagnetic field, TV will be set Mute automatically(Only default on in North America)
Pilot Level High Thld	0x20h	* The High threshold value of stereo signal(If Pilot level is greather than High threshold value, recognize Stereo signal)
Pilot Level Low THLD	0x10h	* The Low threshold value of stereo signal(If Pilot level is less than Low threshold value, recognize Mono signal)
Carrier2 Amp High ThLD	9	
Carrier2 Amp Low THLD	6	
Amp Volume	0xc4h	
Amp Scale	0x3ch	
Amp EQ Check Sum	0x000057B5	
Subwoofer Support	3	
Woofer Type	0	
Woofer Volume	0xc7h	
Woofer Scale	0x3fh	
Woofer Check sum	0x0000A273	
PEQ Inx	76	

Factory Menu Name	Data	Range
PEQ Test	Ready	
Speaker EQ	ON	
Bottom Checksum	NONE	
Wall Filter Type	3	
SRS Tuning Parm	0	
SPDIF PCM Gain	-9	
AudioDock BT Delay	90	
3D_Glass BT delay	50	
Mic Scale	OFF	
India Sound	0	
Speaker Delay Normal	0	
NTV CU Delay	NORMAL	
Lipsync Inx	1	
Lipsync Checksum	0x4972	
Lipsync USB Test	Ready	
Lipsync BT Checksum	0x0000	
TP volume	0xc4h	
TP Scale	0x6ch	
TP EQ CheckSum	NONE	

■ Debug

Factory Menu Name	Data	Range
Spread Spectrum		
LVDS Spread	0	
DDR Spread	0	
Period	0	
Amplitude	0	
HD DDR SSC ON OFF	OFF	
HD DDR SSC Value	0	
FHD DDR SSC ON OFF	OFF	
FHD DDR SSC Value	4	
UHD DDR SSC ON OFF	ON	
UHD DDR SSC Value	0	
PeBus SSC ON/OFF	OFF	
PeBus Value	0	
LVDS SSC ON/OFF	OFF	
LVDS SSC Value	0	

4. Troubleshooting

Factory Menu Name	Data	Range
AP Vx1 SSC ON/OFF	ON	
AP Vx1 Value	12	
N Vx1 SSC ON/OFF	ON	
N Vx1 Value	0	
FRC Vx1 SSC ON/OFF	OFF	
FRC Vx1 SSC Period	0	
FRC Vx1 SSC Modulation	0	
FRC LVDS ON/OFF	ON	
FRC LVDS SSC MFR	3	
FRC LVDS SSC MRR	2	
FRC DDR SSC ON/OFF	ON	
FRC DDR SSC Period	1	
FRC DDR SSC Modulation	2	
ADV7619 Data strength	1	
ADV7619 Clock strength	1	
ADV7619 H_V_DE strength	1	
AP DDR SSC ON/OFF	OFF	
AP DDR SSC Value	0	
AP USIT SSC ON/OFF	ON	
AP USIT SSC Value	13	
OCM Vx1 SSC ON/OFF	OFF	
OCM Vx1 SSC Value	0	
TCON USIT SSC ON/OFF	BYPASS	
DDR Margin		
A CTRL_OFFSET_0_3	0	
A CTRL_OFFSET_D	0	
B CTRL_OFFSET_0_3	0	
B CTRL_OFFSET_D	0	
BT_ON_OFF	ON	
RF Mute Time	600ms	
Tuner Margin	3	European specifications
FRC		
FRC FDISPLAY ON/OFF	OFF	
3D FDISPLAY ON/OFF	OFF	
PC Mode ON/OFF	OFF	
FRC VX1 RX EQ SETTING	OFF	
FRC VX1 TX Pre_emphasis setting	0	

Factory Menu Name	Data	Range
Netflix OSD Threshold	179	
TCON		
TCON_TEMP READ	34	
TEMP LAST	6000	
DCC VERSION	0x0	
TCON Demura Bypass	OFF	
TCON FDisplay	OFF	
Panel Code 1		
Panel Code 2		
Panel Revision		
Panel Menu Week		
Panel S/N 1		
Panel S/N 2		
Panel S/N 3		
Panel S/N 4		
MPEG Margin	20	
H.264 Margin	15	
CAM Wait Time	15	
Voice Debug	OFF	
Power Management		
Cert Option	Waiting	
RM_BIST_DTV	0	
RM_BIST_ATV	0	
RM_BIST_CABLE	0	
SerDES Check		
SerDES Tuner	Failure	
HDMI SW	Failure	
HDMI Rx	Failure	
MP Failure		
Main SerDES	Failure	
Jack SerDES	Failure	
Stress Mode	OFF	
Log Analyzer	ON	
Error Popup On/Off	OFF	
DeadLock KILL	OFF	
CES Option	OFF	

4. Troubleshooting

Factory Menu Name	Data	Range
CES Convergence Option	OFF	
CES ATSC 3_0	OFF	
CES OOB E MVPD SUPPORT	OFF	
BT DUT	OFF	
BT Throughput	Failure	
Reproduce Module	ON	
21_9		
L-DETECT STABLE TIME	7	
L-DETECT UNSTABLE TIME	3	
L-DETECT CAPTION THRESHOLD	720	
L-DETECT RAGION THRESHOLD	720	
L-DETECT B-LEVEL THRESHOLD	32	
L-DETECT USB SUPPORT	0	
DB Download		
MRT Option Dump	Failure	
Picture Data Dump	Failure	
VCONF Dump	Failure	
Read Eco Sensor Data	0	
No Signal Power OFF	ON	
Alert Option	ON	
Default HDMI1 Booting	OFF	

■ SVC

Factory Menu Name	Data	Range
Self Test(for HW)		* the Output of test pattern from each IC
Info		
Reset		
Apps Reset		
SVC Reset		
SPI Flash Reset		
Data Sync Reset		
Factory Data Reset		
OPTION_HDMI		
DVI/HDMI SOUND	Auto	
HDMI HOT PLUG	Disable	
HOTPLUG SWITCHING	Auto	

Factory Menu Name	Data	Range
HOT PLUG DURATION	800ms	
CLK TERM DURATION	300ms	
HDMI FLT CNT SIG	0ms	
HDMI FLT CND SIG2		
HDMI FLT CNT LOS	0ms	
UNSTABLE BAN CNT	1250ms	
HDMI ROBIN	0	
HDMI Callback	ON	
HDMI CTS Thld	0	
HDMI CTS Cnt1	0	
HDMI EQ	0	
HDMI Write Type	0	
HDMI Switch	0	
DVI SET TIME	0	
H Write	0	
HDMI Sync	0	
HDMI 3D DET	1	
HOT PLUG OFF HOLD TIME	600ms	
HDMI MUTE TIME	0ms	
HDMI NFST UNMUTE TIME	800ms	
HDMI FST UNMUTE TIME	0ms	
REPEA AUDIO PKT	OFF	
HDMI Stable Count	3	
HDMI HDCP EN	OFF	
HDMI HDCP EN FLAG	85	
POWER ON FLT CNT LOS		
HDCP UPDATE SPI	READY	
SPI VERSION	0	
HdmiRx EQ	0	
HDMI TMDS ERR DET	1	
DVB CI		
TS Clock delay TC	0	
TS Clock delay S	0	
CI Control Buf ON	ON	
TS Clock delay CPU	1	
TS Clock delay TC2	0	
TS Clock delay S2	0	

4. Troubleshooting

Factory Menu Name	Data	Range
CI Control Buf ON2	1	
TS Clock delay CPU2	0	
Test Pattern		
Scaler Pattern	OFF	
US Post Pattern	OFF	
FRC Pre Pattern	0	
FRC Post Pattern	0	
SOC TCON Pattern	0	
SOC TCON Pattern Level	255	
FRC OSD Pre Pattern	0	
FRC OSD Post Pattern	0	
FRC2 Pre Pattern	0	
FRC2 Post Pattern	0	
SOC TCON2 Pattern	0	
SOC TCON2 Pattern Level	255	
Upgrade		
T-CON DATA UPGRADE		
T-CON FW UPGRADE		
T-CON CheckSum		
T-CON2 Usb Download		
T-CON2 CheckSum		
PANEL EEPROM UPGRADE		
PANEL FLASH UPGRADE		
Logic Usb D/L		
SUBMICOM UPGRADE	.	* Upgarde Sub-Micom Program
SUBMICOM JP USB UPGRADE		
BT UPGRADE	.	* Upgarde BT(There is upgrade program in
Main-Image)		
BT FREEPAIRING		
Function Upgrade		
FRC3D FW UPGRADE		
FRC3D SRP UPGRADE		
FRC3D LD UPGRADE		
FRC2 3D FW UPGRADE		
Camera Upgade	.	* Upgarde Camera module(There is upgrade program in Main-Image)
Mic Upgrade	.	* Upgarde MIC in Camera module(There is upgrade program in Main-Image)

Factory Menu Name	Data	Range
Jump UPGRADE		
IR Blaster Upgrade		
IR Blaster delay time		
NTV CU UPDATE		
UD LDC PROFILE UPGRADE		
Pic Data USB Update		
Audio Data USB Update		
Eco Data USB Update		
CI CPLD Upgrade		
SC ADK Upgrade		
Other Setting		
Delete S/N		
IPERF	Stopped	
Expert		
CAL Data Backup	...	
CAL Data Restore		
MICOM POWER OFF	ON	
NTV CU FW VER	0	
ATV IF AGC SPEED	0	
Upgrade UHD OSD Test	0	
Main USB Path		
JackP USB Path		
Source Direct On/Off	OFF	
Apps Update		
Auto Power	LAST POWER	
SMCE Control		
Motor Test		
Cube Test		
V APP	OFF	
Picture Direct On/Off	OFF	
SVC Panel	ORIGINAL	
S/N		
Serial number		
Writing S/N		

■ ADC/WB

Factory Menu Name	Data	Range
ADC		
AV Calibration		
Comp Calibration		
PC Calibration		
HDMI Calibration		
ADC Result		
1st_Y_GH	0	
1st_Y_GL	0	
1st_Cb_BH	0	
1st_Cb_BL	0	
1st_Cr_RH	0	
1st_Cr_RL	0	
2nd_R_L	128	
2nd_G_L	128	
2nd_B_L	128	
2nd_R_H	69	
2nd_G_H	69	
2nd_B_H	69	
White Balance		
R-Offset	128	
G-Offset	128	
B-Offset	128	
R-Gain	128	
G-Gain	128	
B-Gain	128	
WB-W2_R_Offset	128	
WB_W2_B_Offset	128	
WB_W2_R_Gain	136	
WB_W2_B_Gain	76	
WB_N_R_Offset	128	
WB_N_B_Offset	128	
WB_N_R_Gain	131	
WB_N_B_Gain	119	
MGA		
MGA On/Off	OFF	
R1_Gain		

Factory Menu Name	Data	Range
G1_Gain		
B1_Gain		
R2_Gain		
G2_Gain		
B2_Gain		
R3_Gain		
G3_Gain		
B3_Gain		
R4_Gain		
G4_Gain		
B4_Gain		
R5_Gain		
G5_Gain		
B5_Gain		
R6_Gain		
G6_Gain		
B6_Gain		
R7_Gain		
G7_Gain		
B7_Gain		
R8_Gain		
G8_Gain		
B8_Gain		
R9_Gain		
G9_Gain		
B9_Gain		
R10_Gain		
G10_Gain		
B10_Gain		
SPI White Balance		
SPI White Balance On/Off		
SPI R-Offset		
SPI G-Offset		
SPI B-Offset		
SPI R-Gain		
SPI G-Gain		
SPI B-Gain		

4. Troubleshooting

Factory Menu Name	Data	Range
SPI N Rgain		
SPI N Bgain		
SPI N Roffset		
SPI N Boffset		
SPI W2 Rgain		
SPI W2 Bgain		
SPI W2 Roffset		
SPI W2 Boffset		
SPI MGA		
WB Data to SPI		

■ Advanced

4-10. White Balance

4-10-1. Calibration

1. Into the Factory Mode.
2. Select **ADC/WB** menu.
3. Select **ADC** menu.

Option	AV Calibration
Control	Comp Calibration
Debug	PC Calibration
SVC	HDMI Calibration
ADC/WB	
Advanced	

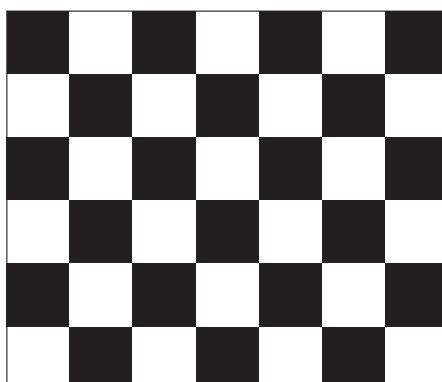
4-10-2. Service Adjustment

You must perform Calibration in the Lattice Pattern before adjusting the White Balance.

■ Color Calibration

- Adjust Specification

Source	Setting Mode	Pattern	Use Equipment
HDMI	1280 x 720@60 Hz	Pattern #24 (Chess Pattern)	CA210 & Master MSPG925 Generator



(Chess Pattern)

- Use other equipment only after comparing the result with that of the Master equipment.

Input mode	Calibration	Pattern
CVBS IN (Model_#1)	Perform in NTSC B&W Pattern #24	Lattice
Component IN (Model_#6)	Perform in 720p B&W Pattern #24	Lattice
PC Analog IN (Model_#21)	Perform in VESA XGA (1024x768) B&W Pattern #24	Lattice
HDMI IN	Perform in 720p B&W Pattern #24	Lattice

Method of Color Calibration (AV)

1. Apply the NTSC Lattice (N0. 3) pattern signal to the AV IN1 port.
2. Press the Source key to switch to "AV1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "AV Calibration" menu.
6. In "AV Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "AV Calibration" status from Failure to Success.

Method of Color Calibration (Component)

1. Apply the 720p Lattice (N0. 6) pattern signal to the Component IN1 port.
2. Press the Source key to switch to "Component1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "Comp Calibration" menu.
6. In "Comp Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "Comp Calibration" status from Failure to Success.

Method of Color Calibration (PC)

1. Apply the VESA XGA Lattice (N0. 21) pattern signal to the PC IN port.
2. Press the Source key to switch to "PC" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "PC Calibration" menu.
6. In "PC Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "PC Calibration" status from Failure to Success.

Method of Color Calibration (HDMI)

1. Apply the 720p Lattice (N0. 6) pattern signal to the HDMI1/DVI IN port.
2. Press the Source key to switch to "HDMI1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "HDMI Calibration" menu.
6. In "HDMI Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "HDMI Calibration" status from Failure to Success.

4-10-3. Adjustment

1. Into the Factory Mode.
2. Select **ADC/WB** menu.
3. Select **White Balance** menu.

Option			
Control			
Debug			
SVC			
ADC/WB	White Balance	(Low Light) Sub Brightness R offset G offset B offset	(Hight Light) Sub Contrast R gain G gain B gain
Advanced			

4-11. LED Indicator Test

4-11-1. Diagnostic Methods - Flashing Symptom Codes

After TV is "COLD BOOTED" (AC Power Re-Cycled), Flashing symptom codes will operate and show the defect block with number of LED flash.

Place a mirror or phone directly under Standby LED to observe flashing.

■ Defect type and Number of LED flash

Defect Block	Detection Method	Number of LED Flash	
OCB	-	LED off	No Blinking
Main Board	<ul style="list-style-type: none"> WDC -> Reboot -> Flash Error -> Flash 	1 time	
Panel	<ul style="list-style-type: none"> Error -> Reboot -> Flash Error -> Flash(after 10cm) 	2 time	
SMPS	<ul style="list-style-type: none"> Error -> Reboot -> Flash Error -> Flash 	3 time	
Bluetooth / WIFI	<ul style="list-style-type: none"> Cold Boot -> 30 sec after module starts 	4 time	
AOC	<ul style="list-style-type: none"> Cold Boot -> 30 sec after module starts Signal level below threshold 	5 time	

↑ Cold Boot

How to COLD BOOT the TV

- Method 1) Unplug and re-plug in the power cord.
- Method 2) While TV is on, Press & Hold Power Button of TV remote for 4 seconds. TV will turn off and on by itself.

4-12. Updating the TV's Software

Software Upgrade can be performed by network connection or downloading the latest firmware from "www.samsung.com." to a USB memory device.

4-12-1. By USB

Download the firmware image and save it in a folder on the root directory of the USB flash drive. The folder name must be "firmware name".

Insert a USB drive containing the firmware upgrade file, downloaded from "www.samsung.com," into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.



4-12-2. By Online

Upgrades the software using the Internet.

- First, configure your network. For detailed procedures on using the Network Setting, refer to the 'Setting the Network' instructions.
- If The internet connection doesn't operate properly, connection can be broken, please retry downloading.

If the problem still happens, download by USB and upgrade.

4-12-3. Stanby mode upgrade(Off/On)

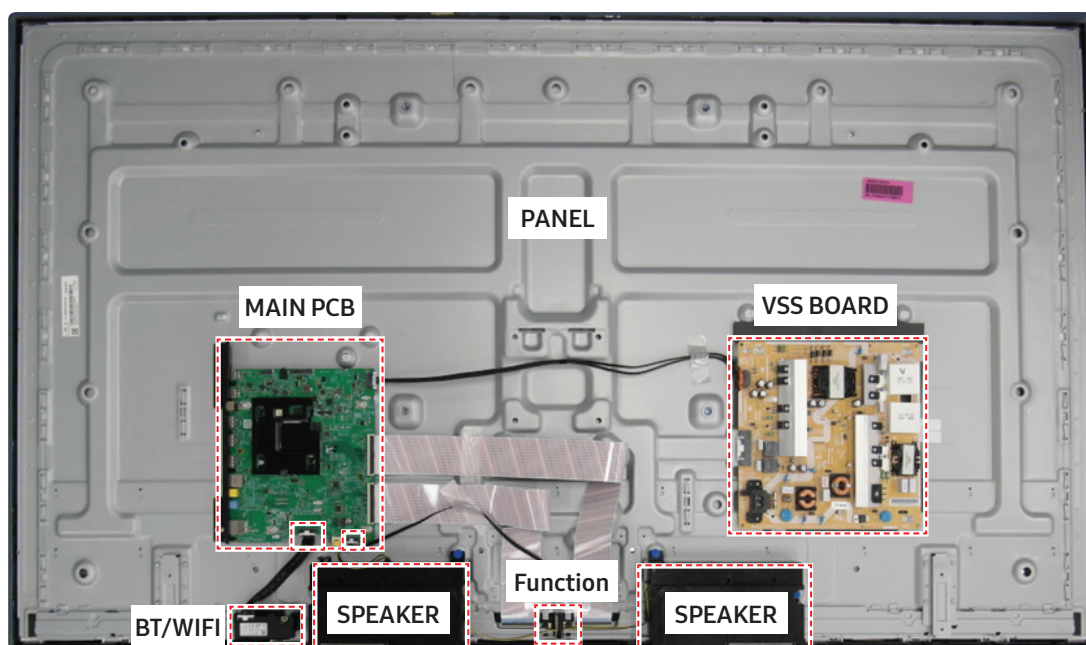
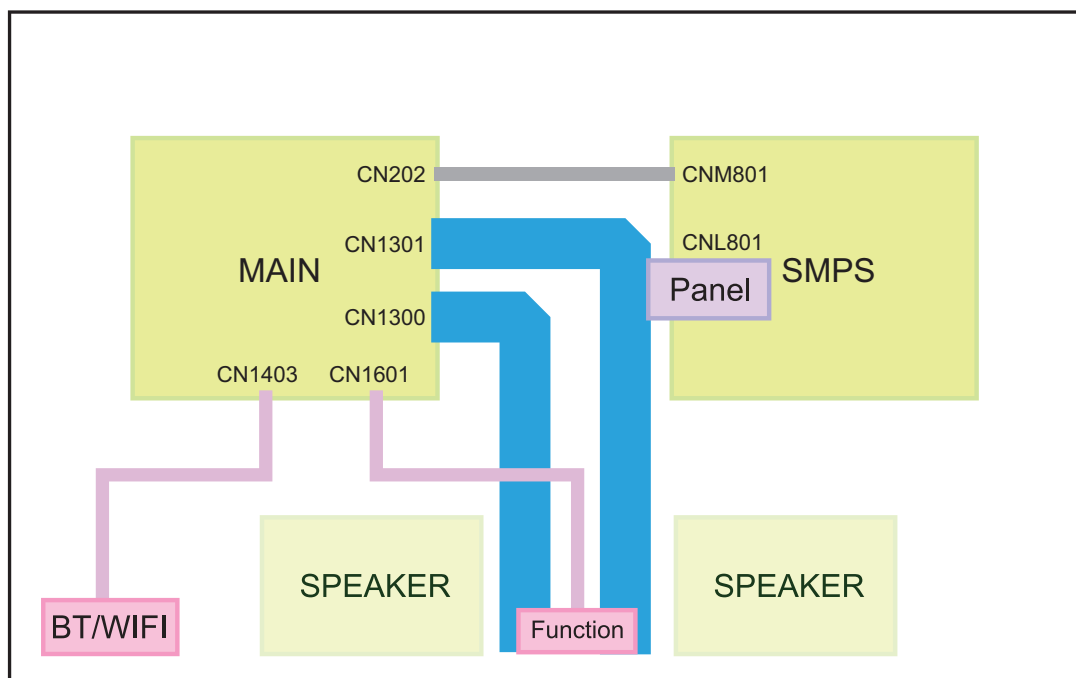
A manual upgrade will be automatically performed at selected time.

Since the power of the unit is turned on internally, the screen may be turned on slightly for the LED product. This phenomenon may continue for more than 1 hour until the software upgrade is complete.

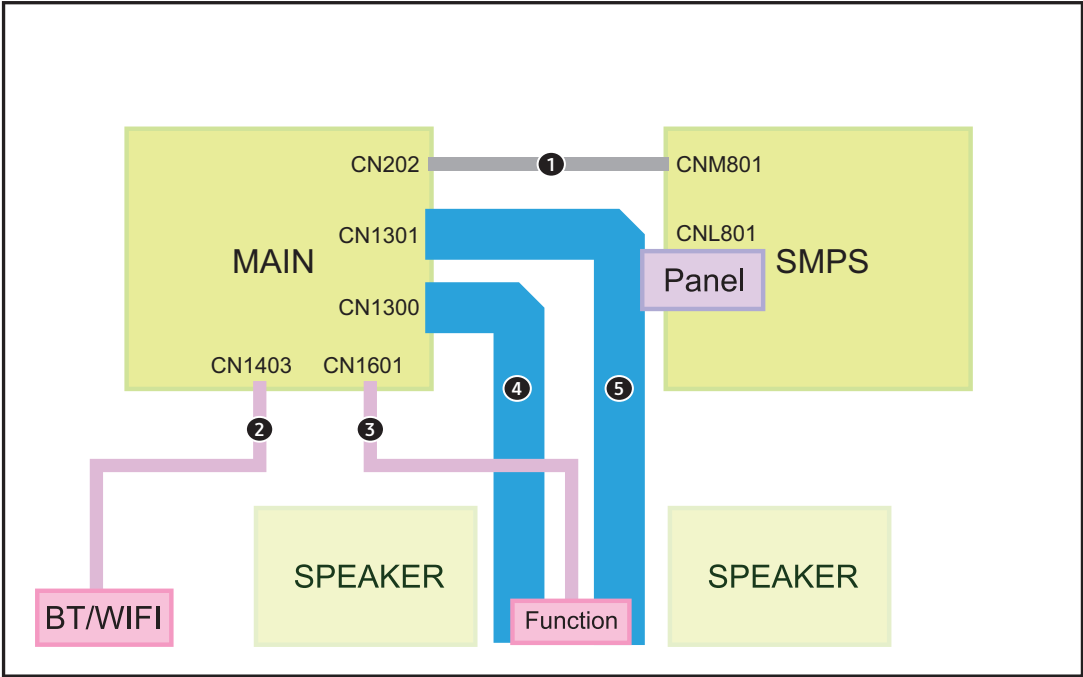
5. Wiring Diagram

5-1. Wiring Diagram

- 43 / 50 inches



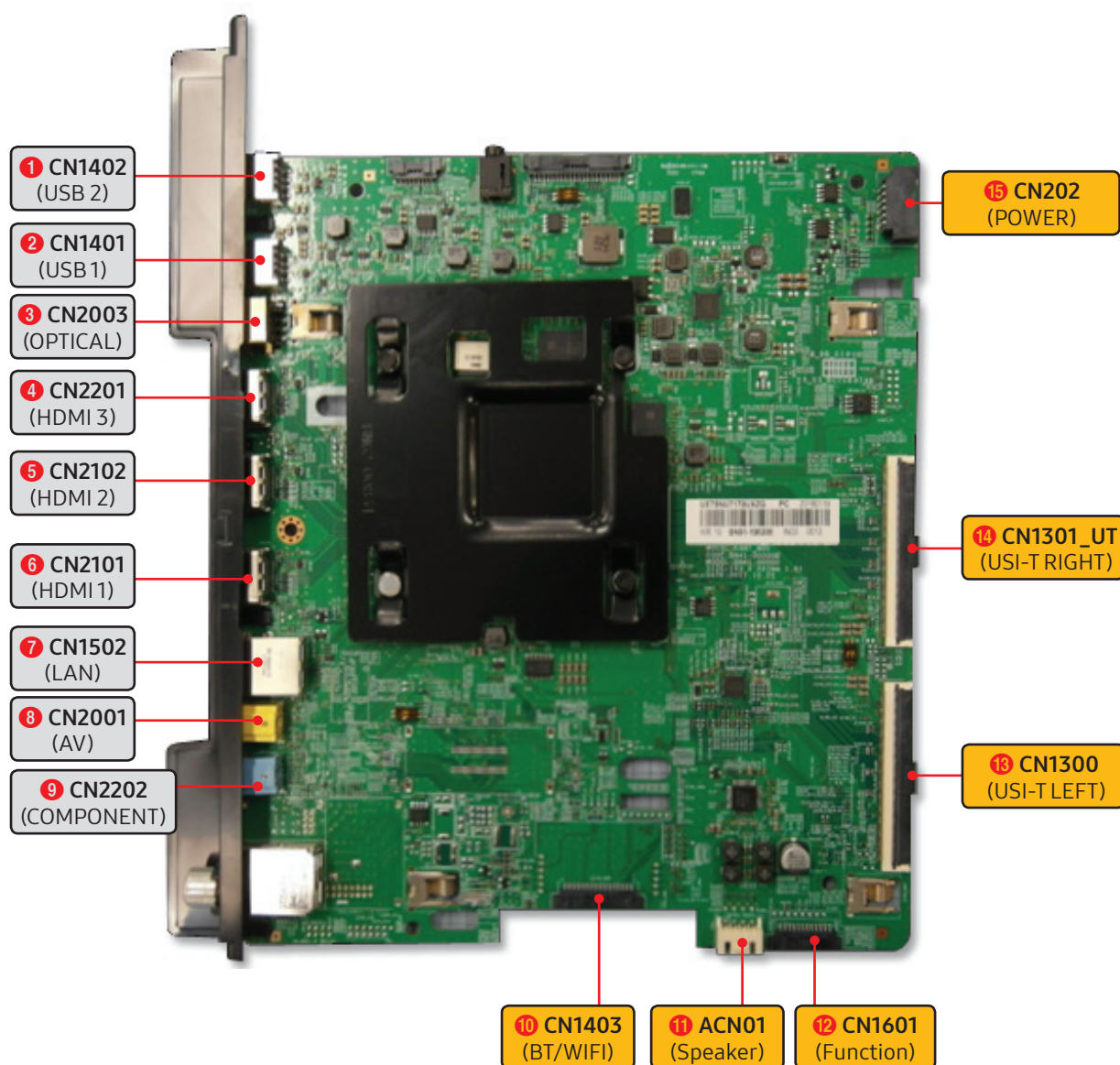
■ Cables



Part Name &		Connection	Code No.	
❶	LEAD CONNECTOR-POWER	SMPS - MAIN	43"	BN39-02217D
			50"	
❷	LEAD CONNECTOR-SUB ASSY	Main - BT/WIFI	43"	BN39-02219G
			50"	BN39-02219E
❸	LEAD CONNECTOR-SUB ASSY	Main - FUNCTION	43"	BN39-02231D
			50"	
❹	FFC CABLE	Main - Source B	43"	BN96-39821E
			50"	BN96-39821F
❺	FFC CABLE	Main - Source B	43"	BN96-39820G
			50"	BN96-39820F

5-2. Connector

5-2-1. Main Board



■ Main Board Pin Map

1 CN1402 (USB2)				3 CN2003 (OPTICAL)			
1	USB2_VCC_5V_PW	2	D-	1	SPDIF_OUT	2	B5V_PW
3	D+	4	GND	3	GND		
2 CN1401 (USB1)							
1	USB1_VCC_5V_PW	2	D-				
3	D+	4	GND				

5. Wiring Diagram

4 CN2201 (HDMI3)			
1	HDMI3_RX2+_HDMI	2	GND
3	HDMI3_RX2-_HDMI	4	HDMI3_RX1+_HDMI
5	GND	6	HDMI3_RX1-_HDMI
7	HDMI3_RX0+_HDMI	8	GND
9	HDMI3_RX0-_HDMI	10	HDMI3_RX_CLK+_IN_HDMI
11	GND	12	HDMI3_RX_CLK-_IN_HDMI
13	CEC	14	GND
15	HDMI3_SCL_DDC	16	HDMI3_SDA_DDC
17	HDMI3_INS_DET	18	HDMI3_5V_PW
19	HDMI3_HPD		

5 CN2102 (HDMI2)			
1	HDMI2_RX2+_HDMI	2	GND
3	HDMI2_RX2-_HDMI	4	HDMI2_RX1+_HDMI
5	GND	6	HDMI2_RX1-_HDMI
7	HDMI2_RX0+_HDMI	8	GND
9	HDMI2_RX0-_HDMI	10	HDMI2_RX_CLK+_IN_HDMI
11	GND	12	HDMI2_RX_CLK-_IN_HDMI
13	CEC	14	GND
15	HDMI2_SCL_DDC	16	HDMI2_SDA_DDC
17	HDMI2_INS_DET	18	HDMI2_5V_PW
19	HDMI2_HPD		

6 CN2101 (HDMI1)			
1	HDMI1_RX2+_HDMI	2	GND
3	HDMI1_RX2-_HDMI	4	HDMI1_RX1+_HDMI
5	GND	6	HDMI1_RX1-_HDMI
7	HDMI1_RX0+_HDMI	8	GND
9	HDMI1_RX0-_HDMI	10	HDMI1_RX_CLK+_IN_HDMI
11	GND	12	HDMI1_RX_CLK-_IN_HDMI
13	CEC	14	GND
15	HDMI1_SCL_DDC	16	HDMI1_SDA_DDC
17	HDMI1_INS_DET	18	HDMI1_5V_PW
19	HDMI1_HPD		

7 CN1502 (LAN)			
1	EPHY_TXP_LAN	2	GND
3	EPHY_TXN_LAN	4	EPHY_RXP_LAN
5	GND	6	EPHY_RXN_LAN
7	N.C.	8	GND

8 CN2001 (AV)			
1	GND	2	AV_IN_CVBS/COMP_Y
3	COMP_AV_SR_IN	4	IDENT_AV/TEST_CVBS_Y
5	TEST_SR	6	TEST_SL
7	COMP_AV_SL_IN		

9 CN2202 (COMPONENT)			
1	GND	2	COMP_PB
3	COMP_PR	4	TEST_PB/IDENT_COMP
5	TEST_PR	6	GND
7	GND		

10 CN1403 (BT/WIFI)			
1	BT_NRESET	2	BT_POWER_DET
3	BT_WAKE	4	GND
5	D-_USB_BT	6	D+_USB_BT
7	GND	8	BT_WELCOME
9	WIFI_PHY_ON	10	GND
11	D-_USB_WIFI	12	D+_USB_WIFI
13	GND	14	WIFI_5V
15	WIFI_WOW	16	WIFI_NRESET

11 ACN01 (Speaker)			
1	MID_R+	2	MID_R-
3	MID_L+	4	MID_L-

12 CN1601 (Function)			
1	IR	2	GND
3	A3.3V	4	SENSOR_SCL_I2C
5	SENSOR_SDA_I2C	6	KEY_INPUT1
7	KEY_INPUT2	8	LED_STB_OUT
9	-	10	-
11	GND	12	-

15 CN202 (Power)			
1	GND	2	GND
3	A13V_PW	4	GND
5	A13V_PW	6	SW_POWER_OUT
7	A13V_PW	8	PWM_DIMMING_OUT1
9	A13V_PW	10	OVD_ONOOF_LD_SDA_I2C
11	SMPS_FET_FAIL_DETECT	12	ANA_DIMMING

13 CN1300 (USI-T LEFT)							
1	FB_TRDY_1	2	GND	3	PANEL_3.3V_PW	4	PANEL_3.3V_PW
5	FB_VCOM1_2_CELL	6	VCOM1_CELL	7	VCOM2_CELL	8	VCOM3_CELL
9	VSS_OUT1_CELL	10	VOFF_-11V_PW	11	VGHD_30V_PW	12	CKV1_GOA
13	CKV2_GOA	14	CKV3_GOA	15	CKV4_GOA	16	CKVB1_GOA
17	CKVB2_GOA	18	CKVB3_GOA	19	CKVB4_GOA	20	STVP1_GOA
21	STVP1_GOA	22	ST_GOA	23	DEMURA_SSPFRM_SPI	24	DEMURA_SSPLCK_SPI
25	DEMURA_SSPHOLD_SPI	26	DEMURA_SSPWP_SPI	27	DEMURA_SSPRXD_SPI	28	DEMURA_SSPTXD_SPI
29	DEMURA_SSPFRM_SPI	30	SFC2	31	GND	32	TX_CH0_A+_VX1
33	TX_CH0_A-_VX1	34	GND	35	TX_CH0_B+_VX1	36	TX_CH0_B-_VX1
37	GND	38	TX_CH1_A+_VX1	39	TX_CH1_A-_VX1	40	GND
41	TX_CH1_B+_VX1	42	TX_CH1_B-_VX1	43	GND	44	TX_CH2_A+_USIT
45	TX_CH2_A-_USIT	46	GND	47	TX_CH2_B+_USIT	48	TX_CH2_B-_USIT
49	GND	50	TX_CH3_A+_USIT	51	TX_CH3_A-_USIT	52	GND
53	TX_CH3_B+_USIT	54	TX_CH3_B-_USIT	55	GND	56	TX_CH4_A+_USIT
57	TX_CH4_A-_USIT	58	GND	59	TX_CH4_B+_USIT	60	TX_CH4_B-_USIT
61	GND	62	TX_CH5_A+_USIT	63	TX_CH5_A-_USIT	64	GND
65	TX_CH5_B+_USIT	66	TX_CH5_B-_USIT	67	GND	68	TX_CH6_A+_USIT
69	TX_CH6_A-_USIT	70	GND	71	TX_CH6_B+_USIT	72	TX_CH6_B-_USIT
73	GND	74	TX_CH7_A+_USIT	75	TX_CH7_A-_USIT	76	GND
77	TX_CH7_B+_USIT	78	TX_CH7_B-_USIT	79	GND	80	SFC1
81	GND	82	PI_DSF_MON	83	PORTNUM	84	VCCA_1.9V_PW
85	VCCB_1.8V_PW	86	LL_CELL	87	LH_CELL	88	HAVDD_8.5V_PW
89	UL_CELL	90	UH_CELL	91	AVDD_17V_PW	92	AVDD_17V_PW
93	AVDD_17V_PW	94	AVDD_17V_PW	95	N.C.	96	FB_TRDY_2

5. Wiring Diagram

14 CN1301_UT (USI-T RIGHT)							
1	FB_TRDY_2	2	N.C.	3	AVDD_17V_PW	4	AVDD_17V_PW
5	AVDD_17V_PW	6	AVDD_17V_PW	7	UH_CELL	8	UL_CELL
9	HAVDD_8.5V_PW	10	LH_CELL	11	LL_CELL	12	VCCB_1.8V_PW
13	VCCA_1.9V_PW	14	PI_DSF_MON	15	PORTNUM	16	GND
17	N.C.	18	N.C.	19	N.C.	20	GND
21	SFC1	22	GND	23	TX_CH8_A+_USIT	24	TX_CH8_A-_USIT
25	GND	26	TX_CH8_B+_USIT	27	TX_CH8_B-_USIT	28	GND
29	TX_CH9_A+_USIT	30	TX_CH9_A-_USIT	31	GND	32	TX_CH9_B+_USIT
33	TX_CH9_B-_USIT	34	GND	35	TX_CH10_A+_USIT	36	TX_CH10_A-_USIT
37	GND	38	TX_CH10_B+_USIT	39	TX_CH10_B-_USIT	40	GND
41	TX_CH11_A+_USIT	42	TX_CH11_A-_USIT	43	GND	44	TX_CH11_B+_USIT
45	TX_CH11_B-_USIT	46	GND	47	TX_CH12_A+_USIT	48	TX_CH12_A-_USIT
49	GND	50	TX_CH12_B+_USIT	51	TX_CH12_B-_USIT	52	GND
53	TX_CH13_A+_USIT	54	TX_CH13_A-_USIT	55	GND	56	TX_CH13_B+_USIT
57	TX_CH13_B-_USIT	58	GND	59	TX_CH14_A+_USIT	60	TX_CH14_A-_USIT
61	GND	62	TX_CH14_B+_USIT	63	TX_CH14_B-_USIT	64	GND
65	TX_CH15_A+_USIT	66	TX_CH15_A-_USIT	67	GND	68	TX_CH15_B+_USIT
69	TX_CH15_B-_USIT	70	GND	71	SFC2	72	GND
73	ST_GOA	74	LC1_VGP1_GOA	75	STVP1_GOA	76	CKVB4_GOA
77	CKVB3_GOA	78	CKVB2_GOA	79	CKVB1_GOA	80	CKV4_GOA
81	CKV3_GOA	82	CKV2_GOA	83	CKV1_GOA	84	N.C.
85	VOFF_-11V_PW	86	VSS_OUT2_CELL	87	N.C.	88	VCOM3_CELL
89	FB_VCOM3_CELL	90	VCOM2_CELL	91	VCOM1_CELL	92	BLINK_O
93	PANEL_3.3V_PW	94	PANEL_3.3V_PW	95	FB_TRDY_3	96	FB_TRDY_3