



LED TV

Chassis : UAD50

Model : UE58J5000AW

SERVICE Manual

LED TV



UE58J5000AW

Contents

1. Precautions
2. Product specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. Wiring Diagram

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3. Disassembly and Reassembly

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



This LED TV contains electrostatically sensitive devices. Use caution when handling these components.

3-1. Disassembly and Reassembly

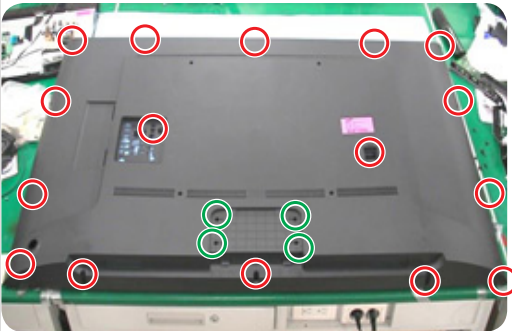


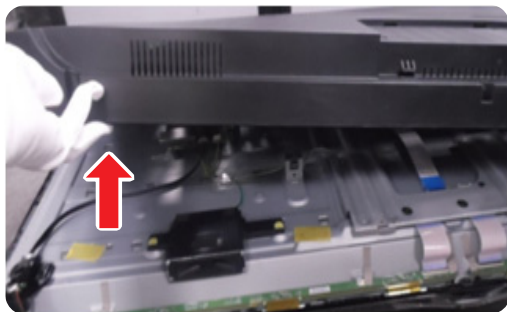
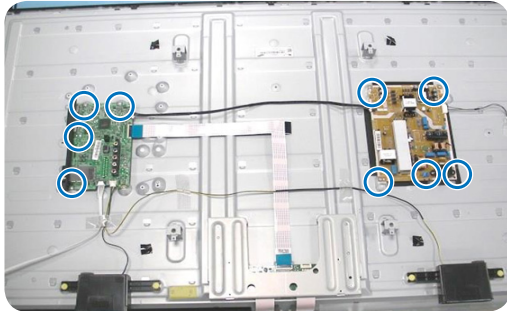

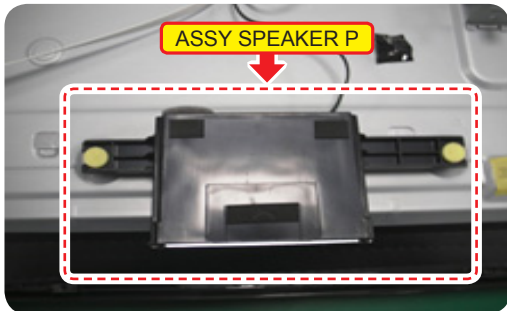
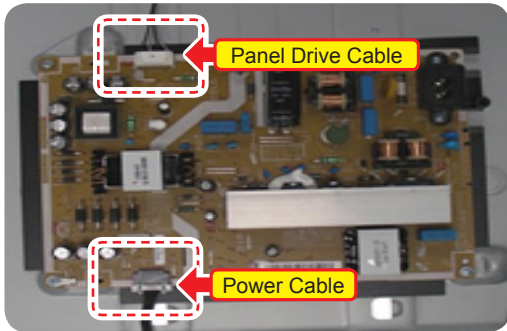


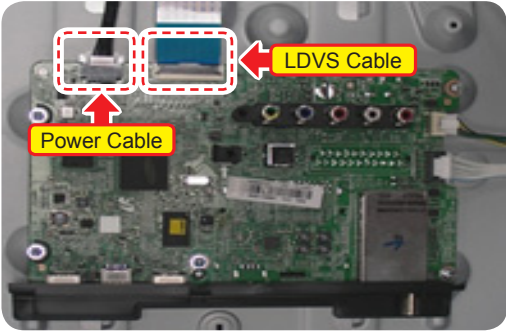
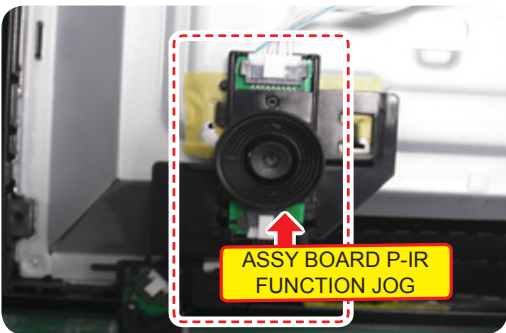

1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
3. If there is no additional coment, it is same for all inches.

■ UE58J50**

Description	Picture Description	Screws
1 Place TV face down on cushioned table.		
2 Remove 4 screws from the stand.		 6003-001782
3 Remove stand.		

3. Disassembly and Reassemble

Description	Picture Description	Screws
4 Remove the screws of rear-cover.		 6003-001782  6003-002755
5 Remove the rear-cover.		
6 Remove the screws.		 6001-003016
7 Remove the speakers, Panel Drive cable, power cables, the LVDS cable, and the function.	 	

Description	Picture Description	Screws
	 <p>LDVS Cable</p> <p>Power Cable</p>	
	 <p>ASSY BOARD P-IR FUNCTION JOG</p>	
8 Completed disassembly.		

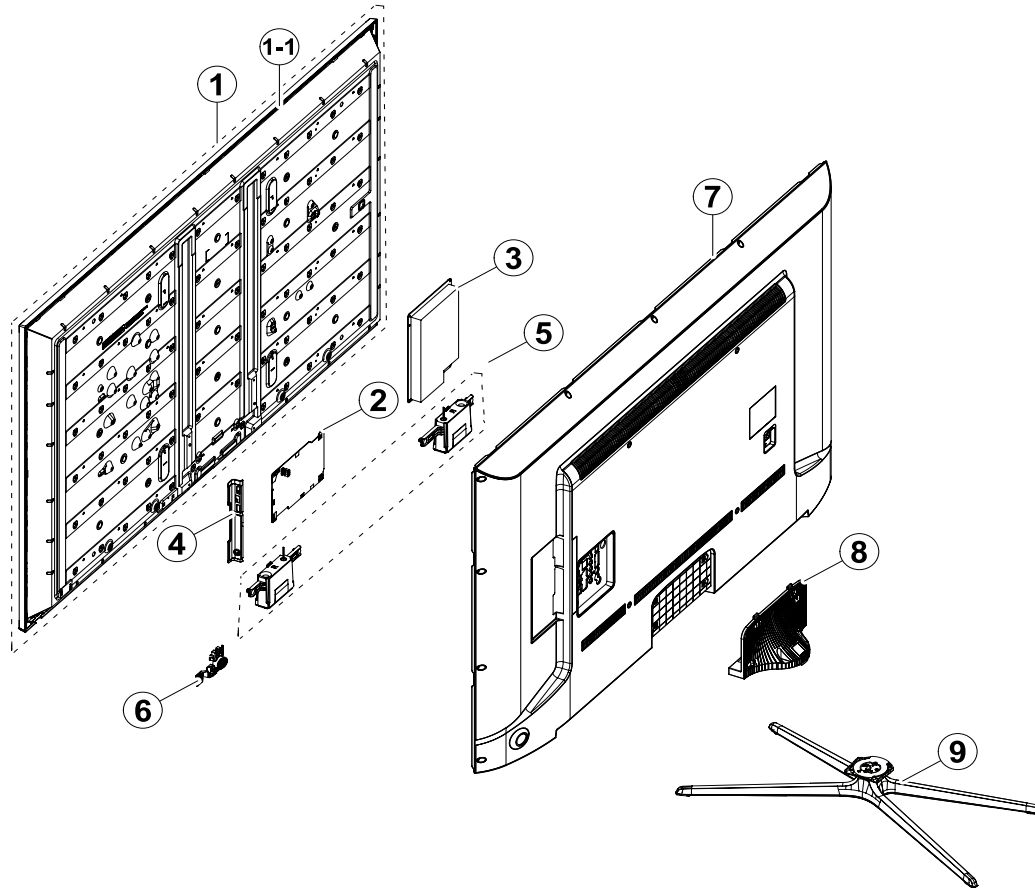


NOTE

Reassembly procedures are in the reverse order of disassembly procedures.

ANNEX. Exploded View & Part List [UE58J5000AWXXH IS01]

1-1. Exploded View



1-1-1. Parts List

No.	Code No.	Description & Specification	Q'ty	SA/ SNA	Remark
1	BN95-01724A	PRODUCT LCD-INX; v580HJ1,CY-HH058BGNV1H/V	1	SA	
1-1	BN96-33358A	ASSY CHASSIS TOP P; Y14 F-LED 58,PC+ABS+G	1	SA	
2	BN94-07814U	ASSY PCB MAIN; UH5F	1	SA	
3	BN44-00787A	DC VSS-LED TV PD BD; L58GFB_ESM,L58GFB_ES	1	SA	
4	BN61-09059A	HOLDER-SIDE AV; UF6100,HIPS,BK0020,HB,EO/	1	SNA	
5	BN96-32113D	ASSY SPEAKER P-HU5900; 6ohm,10W,HU5900 55	1	SA	
6	BN96-30902V	ASSY BOARD P-FUNCTION; UH5200,Function As	1	SA	
7	BN96-33644B	ASSY COVER P-REAR; H5200 58",PC+ABS,V0,BL	1	SA	
8	BN96-33524A	ASSY GUIDE P-STAND; UH5200 58,PC+G/F20%,B	1	SA	
9	BN96-30031E	ASSY STAND P-BASE; UF6K 60,ABS+PC,BLACK	1	SA	

2-1. Electrical Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
			UE58J5000AWXXH (IS01)			
1	R001A	BN90-06019A	ASSY COVER REAR;HU5000	1	SNA	
0.2	SCREW	6001-003074	SCREW-MACHINE;BH,+,M3,L6,ZPC(BLK),SWRCH1	4	SA	
0.2	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	15	SA	
0.2	R001A	BN96-33644B	ASSY COVER P-REAR;H5200 58",PC+ABS,V0,BL	1	SA	
..3	R001	BN63-12619B	COVER-REAR;H5200 58",ABS+PC,V0,BLK,EO	1	SNA	
...4		0103-010488	RESIN PC ABS;NH-1055 K21441,Black,BK0008	3750	SNA	
..3		BN68-05650C	LABEL-TERMINAL SIDE;UH5K,PET,T0.125,W14.	1	SNA	
1		BN90-07095R	ASSY W/I;J6K	1	SNA	
0.2		BN81-08159Z	PART SET-ELEC W/I;UF**,UH**,UG**,ELEC	1	SNA	
0.2		BN81-11282M	A/S PART SET-MECH W/I;UJ5A,U58HF*	1	SNA	
1	S001A	BN90-07340H	ASSY STAND;J5200/J5000	1	SNA	
0.2	SB04A	BN96-30031E	ASSY STAND P-BASE;UF6K 60,ABS+PC,BLACK	1	SA	
..3	SCREW	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	SA	
..3	SCREW	6003-001425	SCREW-TAPTYPE;BH,+,B,M4,L25,ZPC(BLK),SWR	4	SNA	
..3	SCREW	6003-001785	SCREW-TAPTYPE;FH,+,B,M4,L8,ZPC(BLK),SWRC	4	SA	
..3	SCREW	6003-001832	SCREW-TAPTYPE;FH,+,B,M4,L30,ZPC(BLK),SWR	1	SNA	
..3		BN61-07165B	HOLDER-SWIVEL, TOP;60" QUAD STAND,ACETAL,	1	SNA	
..3		BN61-08737A	HOLDER-SWIVEL,BOTTOM;46-55 SLIM QUAD STA	1	SNA	
...4		0103-009825	RESIN POM;TS-25A,Dark Gray,GY0199,HB	6	SNA	
..3		BN61-08738A	HOLDER-STAND,NECK;46-55 SLIM QUAD STAND,	1	SNA	
..3		BN61-08739A	BRACKET-STAND, TOP;46-55 SLIM QUAD STAND,	1	SNA	
..3		BN61-08740A	BRACKET-STAND,BOTTOM;46-55 SLIM QUAD STA	1	SNA	
..3		BN61-09955A	BRACKET-SWIVEL, TOP;UF6400 60 QUAD,SPCC,	1	SNA	
..3		BN61-09957A	BRACKET-SWIVEL,BOTTOM;UF6400 60 QUAD,SPC	1	SNA	
...4		BN61-02428Q	STUD-PEM;M4,D7,L9.3,PNA,ZPC(SIL),SUM24L	4	SNA	
..3	AS080	BN63-05135E	SHEET-COVER;4-LEG,PE,T0.05,W60mm,Cr-plat	2	SNA	
..3		BN63-10161A	COVER-STAND,BASE;46-55 SLIM QUAD STAND,A	1	SNA	
..3		BN63-10199A	COVER-STAND TOP;46-55 SLIM QUAD STAND,AB	1	SNA	
...4		0103-005041	RESIN PC ABS;FR3200TV,901408,BK0008,1.2m	180	SNA	
..3		BN67-00385D	RUBBER-FOOT;RUBBER-FOOT,SILICONE,ROUND,1	4	SNA	
0.2	SG01A	BN96-33524A	ASSY GUIDE P-STAND;UH5200 58,PC+G/F20%,B	1	SA	
..3	SG03	BN61-10894A	GUIDE-STAND;UH5200 58",PC+GF20%,BK0007,V	1	SNA	
...4		0103-007285	RESIN PC;HF3200H,K21294,BK0007,V2	1.5mm	300	
...4		BN68-00513D	LABEL-RESIN;resin,-,art paper,-,10,25,-,	1	SNA	
..3		BN68-05603A	LABEL-E,PASS;ALL MODEL,ART PAPER 90G,60,	1	SNA	
..3		BN69-08751A	WRAP VINYL-SHRINK;STAND,PLASTIC OTHERS,P	0	SNA	
..3		BN96-29120C	ASSY ACCESSORY-SCREW;6003-001782,8EA,LED	1	SNA	
...4	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	8	SA	
...4		BN69-09241C	BAG SCREW;LDPE,0.05,70,90,TRP,Vinyl pack	1	SNA	
1		BN91-12976A	ASSY LCM-AMLCD;BN95-01724A,CY-HH058BGNV1	1	SNA	
0.2	PANEL	BN95-01724A	PRODUCT LCD-INX;v580HJ1,CY-HH058BGNV1H/V	1	SA	
..3	SCREW	6001-003075	SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1	6	SA	
..3		BN61-07962B	BRACKET-STNAD LINK;UE6030 55",SECC,T1.6,	1	SA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
..3	M0131	BN63-00520A	GASKET;APPOLO_PAL,Conductive Fabric,0.13	8	SNA	
..3		BN68-05722A	LABEL-STICKER;ALL MODEL,POLYPROPYLENE,0.	1	SNA	
..3		BN90-05987A	ASSY MISC-BLU;MEGA MODEL,CY-HH058BGNV1V	1	SNA	
...4		BN02-00102B	TAPE-FILAMENT;#8917,0.15,25,50,WHITE	3	SNA	
...4		BN02-00152E	TAPE ETC-SHEET FIXING;Y13 SF-LED,PET,0.0	4	SNA	
...4		BN61-07891A	SUPPORT-PLATE;Y12 FULL LED,PC,V2,CLEAR	9	SNA	
...4		BN61-10791A	LGP-DIFFUSESR PLATE;58inch Mega, Diffuse	1	SNA	
...4		BN62-00635A	INSULATION-SOURCE PCB R;Y14 58",PC,0.25,	1	SNA	
...4		BN62-00635B	INSULATION-SOURCE PCB L;Y14 58",PC,0.25,	1	SNA	
...4		BN63-12638A	SHEET-COMPLEX;MEGA 58inch G230-54,PET,0.	1	SNA	
...4		BN63-12640A	SHEET-REFLECTOR;MEGA 58inch UXJP175,PET,	1	SNA	
...4		BN96-32771A	ASSY LED BAR P-LED BAR;58inch Left,Direc	6	SNA	
...4		BN96-32772A	ASSY LED BAR P-LED BAR;58inch Right,Dire	6	SNA	
...4		BN96-33354A	ASSY CHASSIS BOTTOM P;Y14 F-LED 58,MEGA,	1	SNA	
....5		AK63-00675A	GASKET;BD-C7500,Conductive Fabric,2mm,5m	4	SNA	
....5		BN02-00040C	TAPE DOUBLE FACE-D-PLATE;F-LED ALL,MKT50	2	SNA	
....5		BN02-00074D	TAPE PET;58H5200,PET,T0.05,W40,L40,BLK,3	4	SNA	
....5		BN02-00102B	TAPE-FILAMENT;#8917,0.15,25,50,WHITE	1	SNA	
....5		BN02-00134E	TAPE ETC-SHEET FIXING;SFLED 32/40/46/55/	6	SNA	
....5		BN02-00324A	TAPE-METAL FOIL;Y14 4K,T0.085,W25,NTR,3M	0	SNA	
....5	EC13	BN39-01910A	LEAD CONNECTOR;58inch Mega,Lead Connecto	1	SNA	
....5		BN61-11027A	HOLDER-SOURCE PCB;H4.2K 58",NYLON66,1.8T	4	SNA	
....5		BN62-00501M	INSULATION-PD BOARD 58;Y14 H4.2K 58,PC,0	1	SNA	
....5	CC02	BN64-02743A	CHASSIS-BOTTOM;Y14 F-LED 58",EGI-SECC AG	1	SNA	
....5		BN74-00053J	TAPE PAPER-PROTECTION;-3M2307,PAPER,-,0	1	SNA	
...4		BN96-33355A	ASSY FRAME P-MOLD MIDDLE U;Y14 F-LED 58,	1	SNA	
....5		BN61-10803A	FRAME-MOLD MIDDLE U;Y14 F-LED 58",PC+G/F	1	SNA	
...4		BN96-33356A	ASSY FRAME P-MOLD MIDDLE D;Y14 F-LED 58,	1	SNA	
....5		BN60-00744A	SPACER-RUBBER;Y13 F-LED SLIM,SH-0140U+AT	1	SNA	
....5		BN60-00999E	SPACER-PANEL(UD);14 ENTRY MODEL 58",SI,6	2	SNA	
....5		BN61-10804A	FRAME-MOLD MIDDLE D;Y14 F-LED 58",PC+G/F	1	SNA	
...4		BN96-33357A	ASSY FRAME P-MOLD MIDDLE LR;Y14 F-LED 58	2	SNA	
....5		BN60-00999F	SPACER-PANEL(LR);14 ENTRY MODEL 58" & quot	2	SNA	
....5		BN61-10805A	FRAME-MOLD MIDDLE LR;Y14 F-LED 58",PC+G/	2	SNA	
..3	FL06	BN96-30782D	ASSY CABLE P-FFC;H7000,FFC,NH,68mm□1,60	2	SNA	
..3		BN96-32743A	ASSY OPEN CELL;V580HJ1-PD6,CY-HH058BGNV1	1	SNA	
...4		BN81-10743A	A/S-A/S-IC DRIVER SOURCE;INX 58 FHD 60Hz	1	SNA	
...4		BN81-10744A	A/S-A/S-IC DRIVER GATE;INX 58 FHD 60Hz,6	1	SNA	
...4		BN81-10745A	A/S-A/S-ASSY PCB-SOURCE (XR);INX 58 FHD	1	SNA	
...4		BN81-10746A	A/S-A/S-ASSY PCB-SOURCE (XL);INX 58 FHD	1	SNA	
...4		BN81-10747A	A/S-A/S-POLARIZER-C/F;INX 58 FHD 60Hz,41	1	SNA	
...4		BN81-10748A	A/S-A/S-POLARIZER-TFT;INX 58 FHD 60Hz,41	1	SNA	
..3	TCON	BN96-32745A	ASSY T CON P;V580HJ1-PE6,V580HJ1-PE6,10b	1	SA	
..3	TC01A	BN96-33358A	ASSY CHASSIS TOP P;Y14 F-LED 58,PC+ABS+G	1	SA	
...4		BN60-00667K	SPACER-GASKET;Y13 SF-LED,SI,L22,GRY,T0.2	3	SNA	
...4		BN60-00930Z	SPACER-TOP(UD);Y14 VNB 58",PET,L1280,GOL	2	SNA	
...4		BN60-01010A	SPACER-CORNER;H4203,GASKET*,9mm,BLK,0.2T	4	SNA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		BN60-01071A	SPACER-TOP(LR);Y14 VNB 58",PET,L727,GOLD	2	SNA	
...4		BN63-11875Q	SHEET-COVER;Y14 SF-LED,POLY*,0.068,W37,R	1	SNA	
...4		BN63-11875S	SHEET-COVER;Y14 SF-LED,POLYESTER,0.068,W	3	SNA	
...4	AC157	BN64-02744A	CHASSIS-TOP;Y14 F-LED 58",PC+ABS+G/F15%,	1	SNA	
1		BN91-15243P	ASSY SHIELD;UHD 6K	1	SNA	
0.2	SCREW	6001-003081	SCREW-MACHINE;PWH,+,M3,L5,ZPC(WHT),SWRCH	12	SA	
0.2		BN02-00102B	TAPE-FILAMENT;#8917,0.15,25,50,WHITE	0	SNA	
0.2	EC13	BN39-01885H	LEAD CONNECTOR;UN48H5200AF,Flat Connecto	1	SA	
0.2	M-F	BN39-01935A	LEAD CONNECTOR-FUNCTION;UN58H5200,Lead C	1	SA	
0.2	P001A	BN44-00787A	DC VSS-LED TV PD BD;L58GFB_ESM,L58GFB_ES	1	SA	
0.2	CB20	BN61-07953A	BRACKET-WALL;UE5000 46",EGI-SECC PL,T1.2	4	SA	
0.2	M0131	BN63-00520A	GASKET;APPOLO_PAL,Conductive Fabric,0.13	1	SNA	
0.2	FB01A	BN96-30902V	ASSY BOARD P-FUNCTION;UH5200,Function As	1	SA	
0.2		BN96-32113D	ASSY SPEAKER P-HU5900;6ohm,10W,HU5900 55	1	SA	
0.2	FL06	BN96-33236E	ASSY CABLE P-FFC;UN58H5200,FFC,NH,650mm,	1	SA	
1	M0017	BN91-16918W	ASSY CHASSIS;LED TV	1	SNA	
0.2	M0014	BN94-07814U	ASSY PCB MAIN;UH5F	1	SA	
..3		BN61-09059A	HOLDER-SIDE AV;UF6100,HIPS,BK0020,HB,EO/	1	SNA	
...4		0103-004628	RESIN HIPS;HF-1690H,K2901,BK0020,1.5mm H	13	SNA	
..3		BN67-00364B	RUBBER-FOOT;UE32EH5000,RUBBER,Sillicone,	1	SNA	
..3	FB01A	BN97-07120D	ASSY DRM-KEY;NT14_DRM-KEY(CI+)	1	SNA	
...4		BN46-00328B	KEY CODE-CERTIFI;CI+,TV,NT14, EU	1	SNA	
..3		BN97-08893F	ASSY SMD;UH5F	1	SNA	
...4		0202-001899	SOLDER-CREAM;M705-GRN360-K2-VT,20-38um,S	3	SNA	
...4	DS01A	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA	
...4	DS01A	0401-001116	DIODE-SWITCHING;BAV99DW,75V,215mA,SOT-36	2	SA	
...4		0403-001552	DIODE-ZENER;DDZ16,15.69/16.51V,500mW,SOD	1	SA	
...4		0403-001783	DIODE-ZENER;BZB84-C6V2,5.8/6.6V,300mW,SO	5	SNA	
...4		0403-001784	DIODE-ZENER;NZH7V5C,7.29/7.67V,500mW,SOD	1	SNA	
...4		0403-001785	DIODE-ZENER;NZH5V1B,4.94/5.2V,500mW,SOD-	1	SA	
...4		0403-001797	DIODE-ZENER;NZH3V0B,2.85/3.15V,500mW,SOD	1	SNA	
...4		0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	2	SA	
...4		0406-001200	DIODE-TVS;RCLAMP0504F,6/-/-V,150W,SC-70	1	SA	
...4		0406-001628	DIODE-TVS;AOZ8804ADI,6/-/-V,150W,SLP2510	4	SA	
...4		0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	1	SA	
...4		0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	6	SC	
...4		0505-002560	FET-SILICON;AO6415,P,-20V,-3.3A,0.15ohm,	3	SA	
...4		0505-003397	FET-SILICON;2N7002K,N,60V,380mA,1.19ohm,	4	SA	
...4		0801-002780	IC-CMOS LOGIC;74LVC1G17,SCHMITT-TRIGGER	2	SA	
...4		0801-003330	IC-CMOS LOGIC;Octal buffer,DQFN,20P,4.5x	1	SA	
...4		1001-001860	IC-ANALOG SWITCH;NX5L2750CGU,QFN,10P,1.4	1	SNA	
...4		1103-001531	IC-EEPROM;S-24C256CI-J8T1U4,256Kbit,32Kx	1	SA	
...4		1105-002527	IC-DDR3 SDRAM;K4B2G1646Q-BCK0,DDR3,2Gbit	1	SA	
...4		1201-003183	IC-AUDIO AMP;DRV612,HTSSOP,14P,5x4.4mm,D	1	SA	
...4		1201-003671	IC-AUDIO AMP;NTP7414,MLF,48P,7x7mm,DUAL,	1	SA	
...4		1203-004363	IC-VOL. DETECTOR;SOT-23,3Z30,2.9x1.6mm,P	1	SA	
...4		1203-006017	IC-VOL. DETECTOR;RT9824GJ8,TSOT23,8P,2.9	1	SA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		1203-006130	IC-POSIFIXED REG.;S-1172B25-U5T1G,SOT-8	1	SA	
...4		1203-007694	IC-DC/DC CONVERTER;SN1106041DDAR,DDA,8Z3	2	SA	
...4		1203-007984	IC-DC/DC CONVERTER;AOZ3015PI,SO-8,8P,6.2	1	SA	
...4		1203-008103	IC-POSIFIXED REG.;S-13A1D15-E800,HSOP,8	1	SNA	
...4		1203-008104	IC-POSIFIXED REG.;S-13A1D18-E800,HSOP,8	1	SNA	
...4		1203-008105	IC-POSIFIXED REG.;S-13A1D33-E800,HSOP,8	1	SNA	
...4		1204-003492	IC-DECODER;SENK14,LFBGA,624P,21x21mm,PLA	1	SA	
...4		1205-004447	IC-SWITCH;TPS2051CDBVR,SOT23-5,5P,3x1.65	2	SA	
...4		1405-001271	VARISTOR;35V,20Vdc,5A,1.0x0.5mm,TP,100V,	19	SA	
...4		2007-000137	R-CHIP;2Kohm,5%,1/16W,TP,1005	5	SNA	
...4		2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	19	SA	
...4		2007-000142	R-CHIP;2.7Kohm,5%,1/16W,TP,1005	3	SNA	
...4		2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	38	SNA	
...4		2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	32	SA	
...4		2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	9	SNA	
...4		2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	6	SNA	
...4		2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	6	SNA	
...4		2007-000168	R-CHIP;470Kohm,5%,1/16W,TP,1005	3	SNA	
...4		2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	5	SNA	
...4		2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	2	SNA	
...4		2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	10	SNA	
...4		2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	2	SNA	
...4		2007-000256	R-CHIP;1.6Kohm,1%,1/10W,TP,1608	1	SA	
...4		2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	SA	
...4		2007-000691	R-CHIP;3.3Mohm,5%,1/10W,TP,1608	1	SA	
...4		2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	4	SNA	
...4		2007-000775	R-CHIP;33Kohm,5%,1/16W,TP,1005	2	SNA	
...4		2007-000931	R-CHIP;470ohm,5%,1/8W,TP,2012	1	SC	
...4		2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	7	SNA	
...4		2007-001168	R-CHIP;75ohm,5%,1/4W,TP,3216	1	SA	
...4		2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	12	SNA	
...4		2007-001298	R-CHIP;51ohm,5%,1/16W,TP,1005	2	SNA	
...4		2007-001313	R-CHIP;330ohm,5%,1/16W,TP,1005	2	SNA	
...4		2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	SNA	
...4		2007-003025	R-CHIP;6.8ohm,5%,1/16W,TP,1005	2	SA	
...4		2007-007095	R-CHIP;390ohm,5%,1/16W,TP,1005	1	SA	
...4		2007-007108	R-CHIP;43.2Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	2	SNA	
...4		2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	15	SNA	
...4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	4	SNA	
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005,0.35T	1	SA	
...4		2007-007311	R-CHIP;22Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-007317	R-CHIP;2.2Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	17	SNA	
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	1	SNA	
...4		2007-007538	R-CHIP;56Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	8	SNA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	1	SNA	
...4		2007-008332	R-CHIP;11.5Kohm,1%,1/16W,TP,1005	2	SA	
...4		2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,2.	2	SA	
...4		2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	2	SA	
...4		2011-001344	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,2	6	SA	
...4		2011-001345	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,8P,TP,2	4	SA	
...4		2011-001396	R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,	5	SA	
...4		2011-001449	R-NETWORK;22ohm,5%,1/16W,L,4Points,TP,10	1	SA	
...4		2011-001527	R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,4P,TP,	1	SNA	
...4	AD480	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	9	SA	
...4	AD480	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005	1	SA	
...4	AD480	2203-000359	C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5	4	SNA	
...4	AD480	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	7	SA	
...4	AD480	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	1	SA	
...4	AD480	2203-000585	C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005	1	SA	
...4	AD480	2203-000627	C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005	2	SNA	
...4	AD480	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005	10	SA	
...4	AD480	2203-000812	C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005	1	SA	
...4	AD480	2203-000940	C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005	4	SA	
...4	AD480	2203-000995	C-CER,CHIP;0.047nF,5%,50V,C0G,TP,1005	3	SA	
...4	AD480	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	3	SNA	
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	12	SNA	
...4	AD480	2203-002443	C-CER,CHIP;0.33nF,10%,50V,X7R,TP,1005	8	SA	
...4	AD480	2203-005054	C-CER,CHIP;0.0047nF,0.25pF,50V,NP0,TP,10	2	SA	
...4	AD480	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	13	SNA	
...4	AD480	2203-005659	C-CER,CHIP;0.18nF,5%,50V,NP0,TP,1005	1	SNA	
...4	AD480	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	85	SA	
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005	12	SNA	
...4	AD480	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608	5	SA	
...4	AD480	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0.	5	SA	
...4	AD480	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	4	SC	
...4	AD480	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,2012	14	SA	
...4	AD480	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	17	SNA	
...4	AD480	2203-006636	C-CER,CHIP;220nF,10%,25V,X7R,TP,1608	2	SA	
...4	AD480	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	34	SNA	
...4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1	6	SNA	
...4	AD480	2203-007240	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608(2	SA	
...4	AD480	2203-007269	C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2	4	SA	
...4	AD480	2203-007270	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	5	SNA	
...4	AD480	2203-007306	C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1	1	SNA	
...4	AD480	2203-007544	C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,0.5	2	SA	
...4		2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	SA	
...4		2703-000158	INDUCTOR-SMD;1uH,10%,2012,.4Ohm,50mA,45,	3	SA	
...4		2703-000213	INDUCTOR-SMD;470nH,10%,1608,1.35Ohm,35mA	1	SA	
...4		2703-001209	INDUCTOR-SMD;1.2uH,10%,1608,.8Ohm,25mA,3	3	SA	
...4		2703-002332	INDUCTOR-SMD;330nH,5%,1608,3Ohm,100mA,32	1	SA	
...4		2703-003149	INDUCTOR-SMD;2.2uH,20%,5050,0.055Ohm,300	1	SA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		2703-003790	INDUCTOR-SMD;4.7uH,20%,8080,0.025ohm,450	1	SA	
...4		2703-003930	INDUCTOR-SMD;4.7uH,20%,5050,0.072Ohm,245	4	SA	
...4		2703-004145	INDUCTOR-SMD;2.2uH,20%,6.5 x 6.9mm,0.20o	1	SNA	
...4		2801-003773	CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50oh	1	SA	
...4		3301-002039	BEAD-SMD;26ohm,1608,TP	44	SA	
...4		3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL	1	SA	
...4		3701-001861	CONNECTOR-HDMI;19P,FEMALE,AU,0.5mm,BLK,S	2	SA	
...4		3707-001106	CONNECTOR-OPTICAL;STRAIGHT W/L,SPDIF	1	SA	
...4		3708-003073	CONNECTOR-FPC/FFC/PIC;51P,0.5mm,SMD,AU,N	1	SA	
...4		3709-001712	CONNECTOR-CARD SLOT;68P,1.27mm,ANGLE,AU,	1	SA	
...4	EH01	3711-008131	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN	1	SA	
...4	EH01	3711-008521	HEADER-BOARD TO CABLE;BOX,8P,1R,2mm,ANGL	1	SA	
...4	EH01	3711-008634	HEADER-BOARD TO CABLE;BOX,10P,2R,2mm,ANG	1	SA	
...4		3722-003457	JACK-USB;4P/1C,NI,BLK,A	1	SA	
...4		3722-003655	JACK-SCART;21P,SN,BLK	1	SA	
...4		3722-003667	JACK-PHONE;1P/7C,SN/NI,BLK,STRAIGHT,3.6P	1	SA	
...4	ET01	BN40-00282A	TUNER;DTOS40EIH276A,DTOS40EIH276A,DVB-TC	1	SA	
...4		BN41-02098B	PCB MAIN;NT14L,FR-4,4,1.2,122*193.5,1	1	SNA	
...4		BN97-07377F	ASSY MICOM-SUB;T-NT14LDEUS-1002,2014.02.	1	SNA	
....5		1107-002226	IC-NOR FLASH;W25Q40CLSSIP,4Mbit,SOIC,8P,	1	SA	
...4		BN97-07377H	ASSY MICOM;T-NT14LDEUC-XXXX,F59L1G81A-25	1	SNA	
....5		1107-002252	IC-NAND FLASH;1Gbit,128Mx8,TSOP,48P,12x2	1	SA	
....5		BN46-00371C	S/W-E-MANUAL;NT14L,EU2,XH	1	SNA	
....5		BN46-00377A	S/W MICOM;T-NT14LDEUC-XXXX,2013.10.23	1	SNA	
..3	T0066	BP62-00017A	HEAT SINK-ES;SP-50L2HX,A6063S,T2.0,26.2,	1	SNA	
1	ACCE1	BN92-17410A	ASSY ACCESSORY;LED J6K UHD	1	SNA	
0.2		BN68-07519B	LABEL-ENERGY;EU,Jordan all(A++),WW,PP,0.	1	SNA	
0.2		BN96-38700B	ASSY ACCESSORY CABLE;UHD LED TV	1	SNA	
..3	T0268	3903-000950	CBF-POWER CORD;DT,CEE,LP-21L,250V,2.5A,B	1	SA	
..3		4301-000121	BATTERY-MN;1.5V,R03,10.5x44.5m,7.5g,AAA	2	SNA	
..3		6902-001965	BAG PE;LDPE,BIOBASED,T0.05,W200,L300,TRP	1	SNA	
..3	REMO2	AA59-00741A	REMOCON;TM1240,44,3.0V,F5020/EU	1	SA	
..3	HOLDER-WIRE	BN61-08370A	HOLDER-WIRE STAND;26UE4000 GUIDE STAND,P	1	SA	
0.2		BN96-39037D	ASSY ACCESSORY MANUAL;LED TV	1	SNA	
..3		6902-001964	BAG PE;LDPE,BIOBASED,T0.03,W200,L300,TRP	1	SNA	
..3	T0527	BN68-00513A	LABEL-E,PASS;ALL MODEL,YUPO(110G),BLACK,	1	SNA	
..3		BN68-03548J	LEAFLET--09, WARRANTY;comm,Samsung,17Lan	1	SNA	
..3		BN68-04972E	LEAFLET-06,REGULATORY GUIDE;ALL,SAMSUNG,	1	SNA	
..3		BN68-07351G	LEAFLET-06,FICHE_15TV(5SERIES);ALL,W/P*	1	SNA	
..3		BN68-07680D	MANUAL USERS;J5000,XH,W/P	1	SNA	
1		BN92-19158A	ASSY P/MATERIAL;UHD 6K	1	SNA	
0.2		6902-001955	BAG ROLL;HDPE/PE FOAM,HDPE T0.018mm,T0.2	3	SNA	
0.2		6902-002233	BAG AIR;LDPE,-,T0.2,W900,L1850,TRP,-,-,-	1	SNA	
0.2		6922-000003	BAND;PP,T0.8,W18,L1650M,TRP,DA69-90145A	1	SNA	
0.2		BN02-00319B	TAPE OPP;OPP,T0.05,W75,L800m,CLEAR	4	SNA	
0.2		BN68-02422B	LABEL-WARNING SHIPPING;ALL MODEL,A/P,T0.	1	SNA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
0.2		BN69-03982N	PAD PACKING-EDGE;EDGE,PAPER,-,T5,W120,L2	1	SNA	
0.2		BN69-05418N	WRAP;T0.017,750,2000000,2000000,750	0	SNA	
0.2		BN69-06640B	PAD;PAD,PAPER,-,CB-SW4,910,1290,-,-,-,-,	1	SNA	
0.2		BN69-06640E	PAD-TRUCK PAD;TRUCK PAD,PAPER,-,DW-BC,41	1	SNA	
0.2		BN69-09624A	CUSHION-FRONT;UH6300-60,EPS	1	SNA	
0.2		BN69-12476N	PALLET;UE58J5000,WOOD,-,1035,1630,141,-,	1	SNA	
0.2		BN69-12854A	CUSHION-SET;58J5000-QS,EPS,16.7g/l	1	SNA	
..3		0103-005099	RESIN EPS;BASF303,Natural,Natural	904	SNA	
1		BN92-19341V	ASSY LABEL;UHD 6K	1	SNA	
0.2		0203-001598	TAPE-FILAMENT;#8915,0.15,12,55000,CLR	0	SNA	
0.2		BN68-06708G	LABEL RATING;Monitor,WW,PP,T0.161,93,73,	1	SNA	
0.2		BN68-07595C	LEAFLET-QSG;J5000,EU,W/P	1	SNA	
1		BN92-19380P	ASSY BOX;LED TV	1	SNA	
0.2		BH68-00662A	LABEL BOX-01;ALL MODEL,ART PAPER,60,110,	1	SNA	
0.2		BN68-05640A	LABEL-03,BOX;ALL MODEL,ART PAPER 90G,110	1	SNA	
0.2		BN69-12853B	BOX UNIT;58J5000-QS,CB,A-01, DW3,W1612,D	1	SNA	

1. Precautions

1-1. Safety Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1-1. Warnings



For continued safety, do not attempt to modify the circuit board.
Disconnect the AC power and DC power jack before servicing.

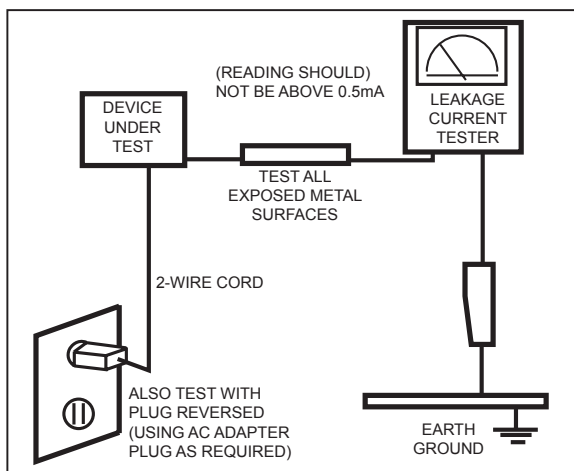
1-1-2. Servicing the LED TV

1. When servicing the LED TV, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3. Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor/capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check:




Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts.
The current measured should not exceed 0.5 milliamp.
Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4. Product Safety Notices

Some electrical and mechanical parts have special safetyrelated characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by  on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2. Servicing Precautions



An electrolytic capacitor installed with the wrong polarity might explode.



Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.



If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1. General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to: (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug. The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3. Static Electricity Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.



Be sure no power is applied to the chassis or circuit and observe all other safety precautions.

8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4. Installation Precautions

1. For safety reasons, more than a people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (0.4m) between the product and the wall for ventilation purposes. A rise in temperature within the product may cause fire.
8. If an equipment is provided with a replaceable battery, and if replacement by an incorrect type could result in an explosion (for example, with some lithium batteries), the following applies:

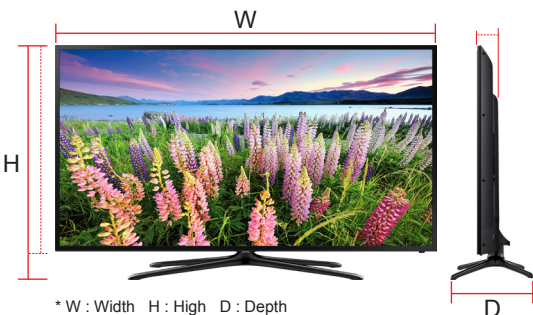

**CAUTION**

- Risk of explosion if battery is replaced by an incorrect type dispose of used batteries according to the instructions.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or overheat the batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not be exposed to excessive heat such as sunshine, fire or the like.

2. Product Specifications

2-1. Product Information

2-1-1. Model Comparison

Model	UE58J5000AW		
Front View	 <p>* W : Width H : High D : Depth</p>		
Detail View			
Front Color	Black (Panel)		
Dimensions W x H x D	58J50	Set with Stand	1308.0 x 836.6 x 306.9 mm
		Set without Stand	1308.0 x 770.4 x 88.7 mm
Weight	58J50	Set with Stand	19.1 kg
		Set without Stand	17.5 kg
Panel Type	Slim LED		

2-2. Product specification

2-2-1. Detailed Specifications


NOTE

Design and specifications are subject to change without prior notice.

Item		UE58J5000AWXXH
General Information	Product	LED
	Series	5
	Country	HUNGARY
Display	Screen Size	58"
	Resolution	1,920 x 1,080
	Ultra Clear Panel	N/A
Video	Picture Engine	HyperReal
	PQI (Picture Quality Index)	200
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	N/A
	Precision Black (Local Dimming)	N/A
	Nano Crystal Color	N/A
	Wide Color Enhancer (Plus)	Yes
	PurColor	N/A
	Auto Depth Enhancer	N/A
	Contrast Enhancer	N/A
	Auto Motion Plus	N/A
	Film Mode	Yes
	Natural Mode Support	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	Virtual Surround	DTS Studio Sound
	DTS Codec	DTS Premium sound 5.1
	3D Sound	N/A
	Sound Customizer	N/A
	Sound Output (RMS)	20W(10W+10W)
	Speaker Type	Down Firing + Full Range
	Woofer	N/A
	HD Audio	N/A
	Wallmount Sound Mode	N/A
	Multiroom Link	N/A

Item		UE58J5000AWXXH
Audio	TV SoundConnect	N/A
Smart TV	Samsung SMART TV	N/A
	Apps	N/A
	Games	N/A
	Multi-Link Screen	N/A
	Automated Content Recognition (ACR)	N/A
	Info Widget	N/A
	Vertical Enhancement	N/A
	Connected EPG	N/A
Smart Interaction	Voice Interaction	N/A
	Voice Control	N/A
	Face recognition	N/A
	Motion control	N/A
Convergence	TV to Mobile - Mirroring	N/A
	Mobile to TV - Mirroring, DLNA	N/A
	Samsung SMART View	N/A
	Wireless TV On - Samsung WOL	N/A
	Notification - BLE	N/A
	Briefing On TV	N/A
	RVU	N/A
	WiDi	N/A
	WiFi Direct	N/A
Differentiation	Sports Mode	Basic
Tuner/Broadcasting	Digital Broadcasting	DVB-T/C
	Analog Tuner	Yes
	2 Tuner	N/A
	CI/CI+/2CI+	CI+(1.3)
	MHP / MHEG / HbbTV / ACAP / GINGA / OHTV	N/A
Connectivity	HDMI	2
	USB	1
	Component In (Y/Pb/Pr)	N/A
	Composite In (AV)	N/A
	Ethernet (LAN)	N/A
	Headphone	1
	Audio Out (Mini Jack)	N/A

2. Product specifications

Item		UE58J5000AWXXH
Connectivity	Digital Audio Out (Optical)	1
	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A
	IR Out	N/A
	CI Slot	1
	Scart	1
	MHL	N/A
	HDMI 3D Auto Setting	N/A
	HDMI A / Return Ch. Support	N/A
	HDMI Quick Switch	N/A
	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	N/A
	Anynet+ (HDMI-CEC)	N/A
Design	Design	High Glossy
	Bezel Type	NNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	Black Quad
	Swivel (Left/Right)	Yes
Additional Feature	Samsung 3D	N/A
	3D Converter	N/A
	Instant On	N/A
	Camera Built-in	N/A
	Processor	N/A
	21:9 Immersive Picture Mode	N/A
	SCSA Support	N/A
	Accessibility	N/A
	One Connect (Jack)	N/A
	Digital Clean View	Yes
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	Channel List USB-Clone	Yes

Item		UE58J5000AWXXH
Additional Feature	Connect Share™ (HDD)	N/A
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	OSD Language	Local
	Picture-In-Picture	Yes
	BT HID Built-in	N/A
	USB HID Support	N/A
	Smart Evolution Support	N/A
	Teletext (TTX)	Yes
	Time Shift	N/A
	Ultra Clean View	N/A
Eco Feature	Eco Mark	Planet First
	Eco Label	N/A
	Eco Sensor	Yes
	Energy Efficiency Class	A++
Accessory	3D Active Glasses (Included)	N/A
	Remote Controller Model	TM1240A
	Batteries (for Remote Control)	Yes
	Samsung Smart Control (Included)	N/A
	Ultra Slim Wall Mount Support	N/A
	Mini Wall Mount Support	Yes
	Vesa Wall Mount Support	Yes
	Floor Stand Support	N/A
	TV Camera (Included)	N/A
	IR Extender Cable (Included)	N/A
	Wireless Keyboard (Included)	N/A
	Composite to Scart Gender (Included)	N/A
	User Manual	Yes
	E-Manual	Yes
	ANT-Cable	N/A
	Power Cable	Yes
	Slim Gender Cable	N/A

2-2-2. Specifications

■ Specifications

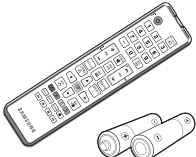



Model	UE58J5000AW
Item	Description
Screen Size (Diagonal)	58 inches
LCD Panel	FHD 60 Hz
Display Colors	16.7 M color
Display Resolution	1,920 x 1,080
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated
Input Sync Signal	H/V Separate, TTL, P. or N.
AC Power Voltage & Frequency	AC220-240V 50/60Hz
Sound (Output)	20 W (10 W X 2)

2-3. Accessories



NOTE

- The items' colors and shapes may vary depending on the model.
- Cables not included in the package contents can be purchased separately.
- The part code for some accessories may differ depending on your region.

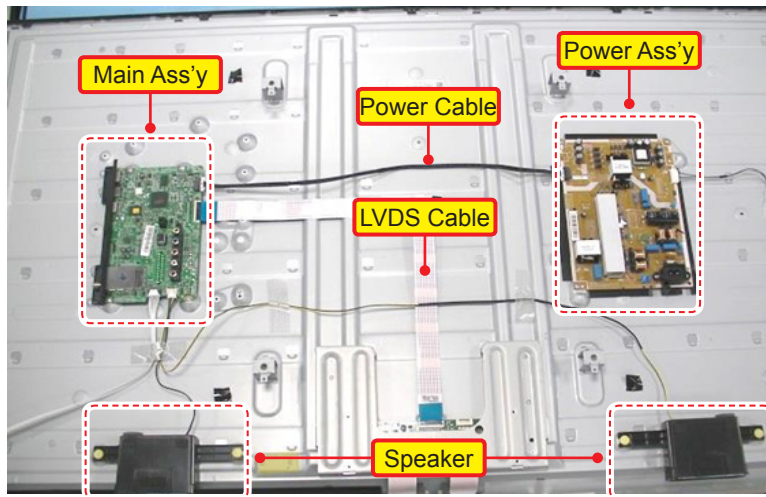
Product	Description	Code. No	Remark
	Remote Control & Batteries (AAA x 2)	AA59-00741A	
		4301-000121	
	Power Cord	3903-000950	
	Manual Users	BN68-07680D	
	Holder-Wire Stand	BN61-08370A	

4. Troubleshooting

4-1. Troubleshooting

■ Previous Check

1. Check the various cable connections first.
 - Check to see if there is a burnt or damaged cable.
 - Check to see if there is a disconnected or loose cable connection.
 - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the Main Board.



3. Check the power in & output between SMPS & Main Board, Main Board & Panel, IP & Panel.

■ How to know it is from Main Board or T-Con when some problems happen

1. No Picture : Backlight is on, but there is no picture and LED indicator in front of TV is blinking.
 - Check the LVDS Cable connection. If still problems, change the T-Con Board and then Main Board step by step.
2. Picture distortion : Enter the service mode → Choose 'SVC' → Check the 'internal pattern.'
 - Enter 'Service Mode.'
 - If you do not have Factory remote control

Power OFF

 →

Info

 →

MENU

 →

Mute

 →

Power On
 - If you have Factory remote control

INFO

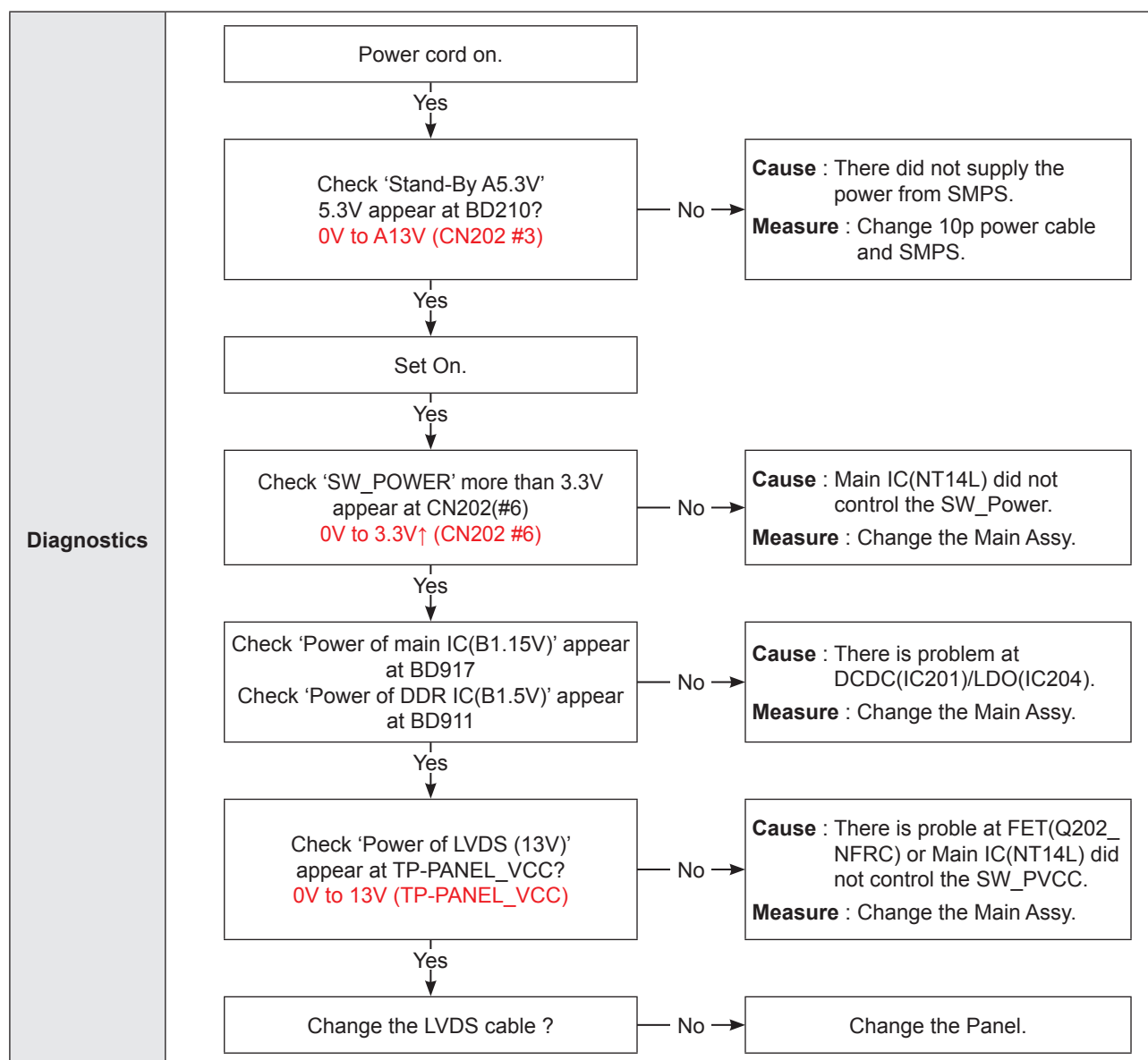
 →

Factory
3. Choose 'SVC.'
4. Choose 'Test pattern.'
5. Select the each pattern and then check all pattern is ok or not.



Pattern Status is	Change the	Test Pattern is made by the NOVATEK IC
OK	Main Board	We guess front of NOVATEK IC has problem.
NG	Panel and T-Con Board	We guess back of NOVATEK IC has problem.

4-2. How to Check Fault Symptom



4-3. Factory Mode Adjustments

4-3-1. 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".

■ UE58J5000AWXXH

Model Name		58"
Panel	Vendor	SEC
	Code	BN95-01724A
	Spec.	CY-HH058BGNV1H/V
SMPS	Vendor	SEM
	Code	BN44-00787A
	Spec.	L58GFB_ESM
MAIN ASSY	Chassis Ass'y	BN91-16918W
	PBA Ass'y code	BN94-07814U
Byte	Item	
0	Factory Reset	-
1	Type	58D6AF0S
2	SW Model	UJ5000
3	BOM Model	5000
4	Local Set	EU
5	Tuner	Auto

4-3-2. Entering Factory Mode

To enter 'Service Mode' Press the remote -control keys in this sequence :

- If you do not have Factory remote control



- If you have Factory remote control



- If you don't have Factory remote control, can't control some menus

■ Initial SERVICE MODE DISPLAY State

Option	T-NT14LDEUC-xxxx.x
Control	T-NT14LDEUS-xxxx
Debug	E-Manual : NLDVBEUxH-xxxx
SVC	EDID SUCCESS
ADC/WB	CALIB : AV/COMP/PC/HDMI/
Advanced	Option : 58D6AF0S,EU_xxx,5xxx,NONE
	DTP-SDAL-NT14L-xxxx
	RFS:"NT14L xxxx" K/20xx-xx-xx
	KERNEL:xxxx.xxxx,/Onboot: xxxx
	TCON Version:----
	NSP-DTVTD-xxxx
	Model: UE58J52xx
	CIP FAIL
	Factory Data Ver:xxx
	EERC Version: xxx
	NSP-BP-HAL-xxxx
	NSP-AP-CNC-xxxx
	NSP-AP-MM-xxxx
	NSP-BP-MW-xxxx
	NSP-BP-APP-xxxx
	NSP-PNG-xx-xxxx
	Date of purchase:-/-----

4-3-3. Factory Data



Note

- Version of the software is written in 0002.
- Black : I should not be possible to adjust or change that does not require a change item
- Blue : Adjustment Services for the corresponding
- Red : Items that are secured

■ Option

Factory Menu Name	Data	Range	Remark	Key
Factory Reset				
Type	58D6AF0S			
Local Set	Local Set	Select Local		
SW Model	UJ5000			
BOM Model	-			
TUNER	Auto			
Ch Table	NONE			
MRT Option				
Front Color	-			
Ivds Format	JEIDA			
Language_Arabic	-			
Region	-			
PnP: Language	-			
WIFI REGION	F			
OTN Support	OFF			
MediaPlay DLNA	...			
TTX	ON			
China HD	OFF			
NT Conversion	OFF			
Num of DTV	1			
Num of AV	1			
Num of COMP	1			
Num of HDMI	2			
Num of SCART	0			
Num of USB Port	1			
Num of RVU	0			
Num of Display	2			
Num of IPTV	0			
Num of RUI	0			

Factory Menu Name	Data	Range	Remark	Key
TOOLS Support	313			
LNA Support	0			
24Px4 Support	OFF			
BD Wise Support	OFF			
Data Service Support	OFF			
PVR Support	OFF			
CI Support	OFF			
OTA Support	OFF			
LEDMotionPlus Support	ON			
Natural Mode Support	OFF			
Relax Mode Support	OFF			
HDMI/DVI SEL	2.00%			
Select LCD/PDP	LCD			
Wall Mount	0			
HV Flip	OFF			
PVR RECORD NUM	0			
Light Effect	OFF			
e-Pop Default	ON			
CAMERA Support	OFF			
NETWORK Support	Not Support			
EcoSensor Support	ON			
3D Support	OFF			
BT Support	OFF			
BT ADDRESS	Not support			
HP LINE	LineOut			
Capture Recording Support	OFF			
JAVA Data Service Support	OFF			
Engineer Option				
Type Of Panel Key	Horizontal			
5 Way Function Key	R_BOTTOM			
Contents Bar	0			
cable Modulation	...			
Standby led on/off	OFF			
Recognition Support	OFF			
IF AGC	0			
D AGC	0			

4. Troubleshooting

Factory Menu Name	Data	Range	Remark	Key
PH BW	3			
FQ BW	3			
PH RATE	4			
PD EN	1			
PEQ Inx	209			
WF Scale				
Num of Network Stream	0			
DP V Size	1			
Backend Device	ECHO_FS			
BT_AUDIO_ON_OFF	OFF			
Config_AV_PATH				
USING_PSI_UPDATE	...			
Fast Logo Delay	0			
Num of PANEL KEY	6			

■ Control

Factory Menu Name	Data	Range	Remark	Key
EDID				
EDID ON/OFF	OFF			
Sub Option				
RS-232 Jack	UART			
Serial Log On/Off	OFF			
Watchdog	ON			
Checksum	0x0000			
Fast Boot in Production	OFF			
USB Serial	OFF			
Eeprom Reset				
ECO IC TYPE	MC8121			
Info Link Server Type	operating			
Info Link Country	None			
TTX Group	UserOSD			
Visual Test				
MediaPlay DB				
OPTION_SWU				
OPTION_NUM				
RF Remocon Support	OFF			
CDD mode	...			

Factory Menu Name	Data	Range	Remark	Key
DPMS Support	OFF			
Num of IPTV CIP	0			
Num of CI	1			
Num of DECODER	0			
T-CON Device				
BOARD CONTROL	OFF			
RM				
PSA				
LMK threshold	0			
Low threshold	0			
High threshold	0			
CSB	ON			
CLB	ON			
EEPG Enable	OFF			
Fanet Thread	2			
UNIQUE TRIPLET	ON			
ASIA PROMOTION	OFF			
PDP Option				
Hotel Option				
Hospitality Mode	OFF			
Shop Option				
Shop Mode	OFF			
Exhibition Mode	OFF			
3D Cube	OFF			
ASIA Option				
Seppo 120Hz	OFF			
Unbalance	OFF			
FMTransmitter Support	OFF			
FMTransmitter Carrier	OFF			
AF Level adjust	3			
TX Power Level	0			
Mono Last Memory	OFF			
H shaking	OFF			
Sound				
High Devi	OFF			
Carrier_Mute	OFF			
Speaker Delay Normal	0			
Wiselink Delay Menu	0			

4. Troubleshooting

Factory Menu Name	Data	Range	Remark	Key
Pilot Level High Thld	0x13h			
Pilot Level Low Thld	0x09h			
Pilot_Phase_diff_on_THR	OFF			
FM Prescale	0x2Eh			
AM Prescale	0x1Ch			
NICAM Prescale	0x1Dh			
Amp Model	NTP7414			
Amp Volume	0xc5h			
Amp Scale	0x9ah			
Amp Check Sum	0x1E1ED856			
SubWoofer Support	0			
Woofer Type	0			
Woofer Volume	0xcbh			
Woofer Scale	0x8ah			
Woofer Check Sum	NONE			
Woofer Local Check Sum	NONE			
Amp Local Check Sum	NONE			
Speaker EQ	ON			
PEQ Test	Ready			
Speaker cut-off Freq	5			
SPDIF PCM Gain	-9 dB			
FM M Prescale	0			
BTSC Mono Prescale	0			
BTSC stereo Prescale	0			
SAP prescale	0			
A2 Ident High Thld	15			
A2 Ident low Thld	4			
Carrier 2 Amp High Thld	16			
Carrier2 Amp Low Thld	14			
Carrier2 SNR High THR	32			
Carrier2 SNR Low THR	17			
Audio-IP Test	rReady			
SRS Tuning Param	4			
TruBass-Checksum	0			
Mic Scale	0			
India sound	OFF			

Factory Menu Name	Data	Range	Remark	Key
Wall filter Type	0			
SAP High Thld	9			
SAP Low Thld	7			
Bottom CheckSum	0			
Bottom Local CheckSum	0			

■ DEBUG

Factory Menu Name	Data	Range	Remark	Key
Spread Spectrum				
LVDS Spread	OFF			
LVDS Period	40K			
LVDS Amplitude	1			
DDR Spread	ON			
DDR Period	20K			
DDR Amplitude	1			
FRC LVDS SSC ON/OFF	ON			
FRC LVDS SSC MFR	1			
FRC LVDS SSC MMR	10			
FRC LVDS SSC Period	0			
FRC LVDS SSC Modulation	1			
FRC DDR SSC ON/OFF	ON			
FRC DDR SSC MFR	1			
FRC DDR SSC MRR	10			
FRC DDR SSC Period	1			
FRC DDR SSC modulation	1			
DDR Margin				
A CTRL_OFFSET_0_3	0			
A CTRL_OFFSET_D	0			
B CTRL_OFFSET_0_3	0			
B CTRL_OFFSET_D	0			
ND ADJ Support	0			
MICOM POWER OFF	0			
RF Mute Time	6ms			
CI +1.3	0			
FRC				

4. Troubleshooting

Factory Menu Name	Data	Range	Remark	Key
FRC FDISPLAY ON/ OFF	OFF			
PC Mode ON/OFF	OFF			
Home Panel FRC	OFF			
Tuner Margin	0			
MPEG Margin	1000			
H.264 Margin	8			
CAM Wait Time	0			
TS Clock delay	0			
TCON_TEMP READ	0			
TEMP LAST	60			
DCC VERSION	0x0			
DCC CHK SEL				
DCC CHECK LOCAK				
DCC CHECK TOTAL				
MultiACC Checksum				
IIC Bus Stop				
Tuner Status				
DVB				
SNR	0			
BER	0			
Signal Strength	0			
Bandwidth	0			
Frequency	0			
LNA Status	0			
FFT	0			
Modulation	0			
Code Rate	0			
GI	0			
Hier Modulation	0			
Frequency Offset	0			
Timing Offset	0			
AGC	0			
UCB	0			
PLL Type	0			
DEMOD Type	0			
TPS Lock	0			
RS Lock	0			

Factory Menu Name	Data	Range	Remark	Key
SSI	0			
SQI	0			
Firmware Version	0			
ISDB-T				
FFT Size_1	0			
Guard Interval_1	0			
Freq. Offset_1	0			
SNR_1	0			
IF AGC_1	0			
TMCC Lock_1	0			
TS Packet_1	0			
Master lock_1	0			
A_Modulation_1	0			
A_Code Rate_1	0			
A_Timer Interleave_1	0			
A_Segments Num_1	0			
A_BER_1	0			
B_modulation_1	0			
B_Code Rate_1	0			
B_Timer InterLeave_1	0			
B_Segments Num_1	0			
B_BER_1	0			
C_Modulation_1	0			
C_Code Rate_1	0			
C_timer InterLeave_1	0			
C_Segments Num_1	0			
C_BER_1	0			

■ SVC

Factory Menu Name	Data	Range	Remark	Key
Test Pattern				
Pattern Sel	OFF			
logic Pattern Sel	...			
Logic Level Sel	...			
FRC Pre Test Pattern	0			

4. Troubleshooting

Factory Menu Name	Data	Range	Remark	Key
FRC Post Test Pattern	0			
SOC TCON Test pattern	0			
SOC TCON Pattern Level	0			
SOC TCON FRC Pattern	0			
HDMI WB Pattern	0			
HDMI Pattern Sel	0			
Panel Display Time	0Hr			
SVC Info	0			
Delete S/N	Failure			
Upgrade				
T-CON Usb Download	Failure			
T-CON Checksum	N/A			
Logic Usb D/L	...			
SUBMICON UPGRADE	Ready			
BT UPGRADE				
BT FREEPARING	ON			
Function Upgrade	Filure			
FRC3D FW Upgrade				
Camera Upgrade	0			
Mic upgrade	0			
CPLD USB Download	0			
JP MICON UPGRADE	Failure			
DP MICOM UPGRADE	Failure			
Jump Upgrade	Failure			
MIC PROGRAM UPGRADE	Failure			
Smart Hub Reset	0			
ER Count				
WD Count	0			
AR Count	0			
WIFI ER Count	0			
BT ER Count	0			
HDMI Stable Cnt	1			
Camera ER Count	0			
Power Fail Error Count	0			
LOG				
Select Log Type	MICOM			

Factory Menu Name	Data	Range	Remark	Key
Log View	0			
Delete Log				
Debug Log Down				
Self Diagnosis				
IPERF	Stopped			
OPTION_HDMI				
DVB Ci				
CAL Data Backup_Copy	...			
CAL Data Restore_Copy	...			
Expert				
ATV IF AGC SPEED	0			
Reset				
Auto Power	MEMORY			

■ ADC/WB

Factory Menu Name	Data	Range	Remark	Key
ADC				
ADC Result				
1st_Y_GH	128			
1st_Y_GL	109			
1st_Cb_BH	...			
1st_Cb_BL	...			
1st_Cr_RH	...			
1st_Cr_RL	...			
2nd_R_L	133			
2nd_G_L	133			
2nd_B_L	133			
2nd_R_H	70			
2nd_G_H	70			
2nd_B_H	70			
White Balance				
R-Offset	128			
G-Offset	128			
B-Offset	128			
R-Gain	128			
G-Gain	128			

4. Troubleshooting

Factory Menu Name	Data	Range	Remark	Key
B-Gain	143			
MGA				
MGA On/Off	OFF			

■ **Advanced**

4-4. White Balance

4-4-1. Calibration

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



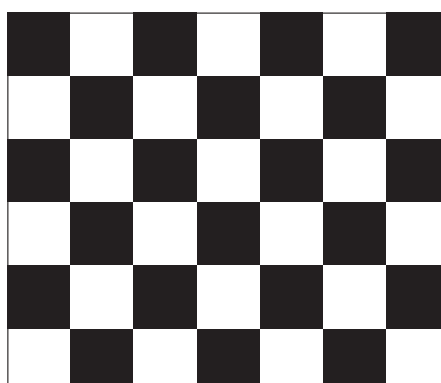
4-4-2. Service Adjustment

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 IN 1 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 IN 1 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.

4-4-3. Adjustment

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

Option			
Control			
Debug			
SVC			
ADC/WB	White Balance	(Low light) Sub Bright R offset G offset B offset	(High light) Sub Contrast R gain G gain B gain
Advanced			

4-5. Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from samsung.com to a USB memory device.

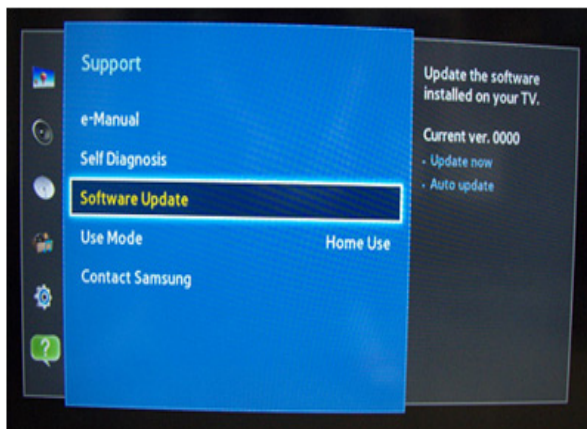
- Current Version - The software already installed in the TV.

Software is represented as 'Year/Month/Day_Version'.

4-5-1. How to Check the Software Version

■ Use the Main Menu

1. Click the "MENU" key in remote controller.
2. Select "Support" menu.
3. Locate the menu cursor "Software Upgrade" menu.
4. Click the "INFO" key.
 - Check the Main SW and Micom version.



■ Use the Factory Mode

Option	T-NT14LDEUC-xxxx.x
Control	T-NT14LDEUS-xxxx
Debug	E-Manual : NLDVBEUxH-xxxx
SVC	EDID SUCCESS
ADC/WB	CALIB : AV/COMP/PC/HDMI/
Advanced	Option : 58D6AF0S,EU_xxx,5xxx,NONE
	DTP-SDAL-NT14L-xxxx
	RFS:"NT14L xxxx" K/20xx-xx-xx
	KERNEL:xxxx.xxxx,/Onboot: xxxx
	TCON Version:----
	NSP-DTVTD-xxxx
	Model: UE58J52xx
	CIP FAIL
	Factory Data Ver:xxx
	EERC Version: xxx
	NSP-BP-HAL-xxxx
	NSP-AP-CNC-xxxx
	NSP-AP-MM-xxxx
	NSP-BP-MW-xxxx
	NSP-BP-APP-xxxx
	NSP-PNG-xx-xxxx
	Date of purchase:-/-/----

4-5-2. How to Upgrade Software and Micom

Insert a USB drive containing the firmware upgrade downloaded from samsung.com into the TV. Please be careful not to disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete (the new version will have a higher number than the older version). When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings before beginning firmware update. After update is completed, restore your previous settings.

■ Main Software Upgrade

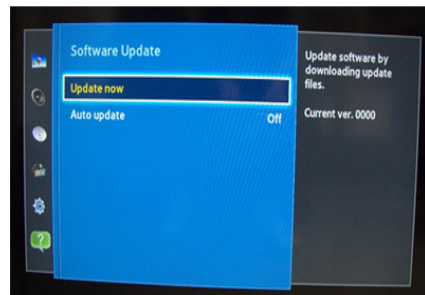
1. Store the sw program named "T-NT14LDEUC" in USB memory stick.
 - Connect the USB.



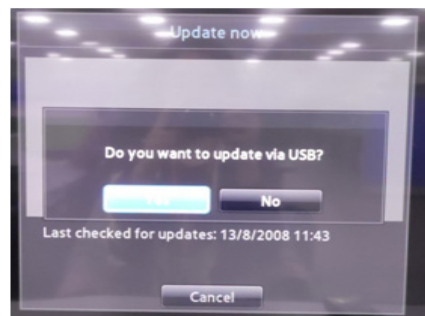
2. Click the "MENU" key in Remote Controller.
3. Select "Support" menu.
 - Locate the menu cursor "Software Update" menu.



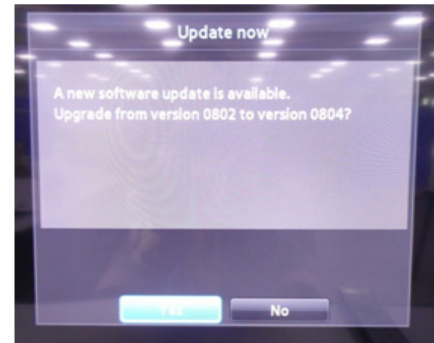
4. Locate the menu cursor "Update now" menu.



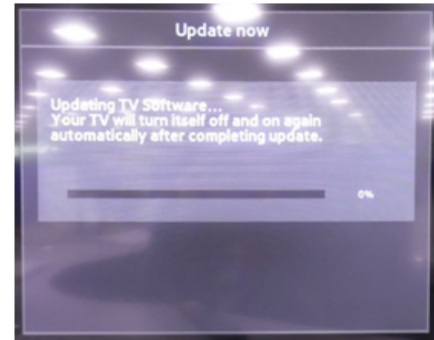
5. Click the "ENTER" key.



6. Click the "ENTER" key.

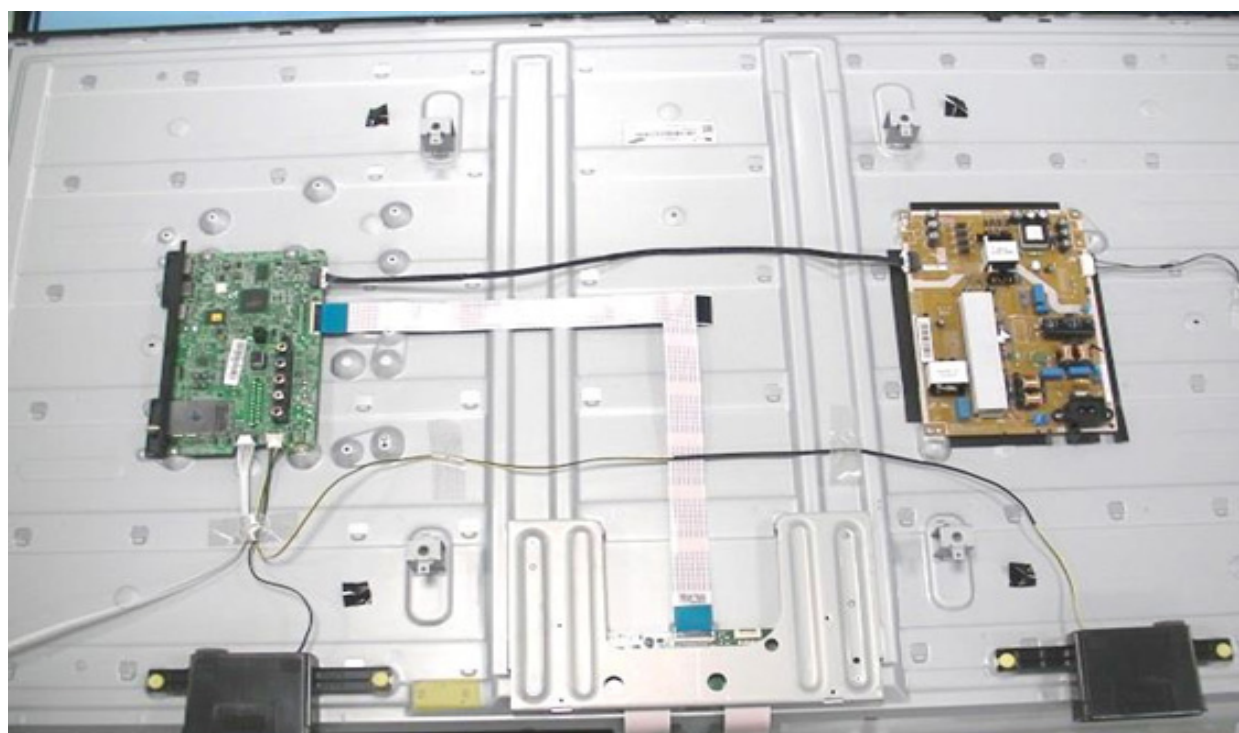
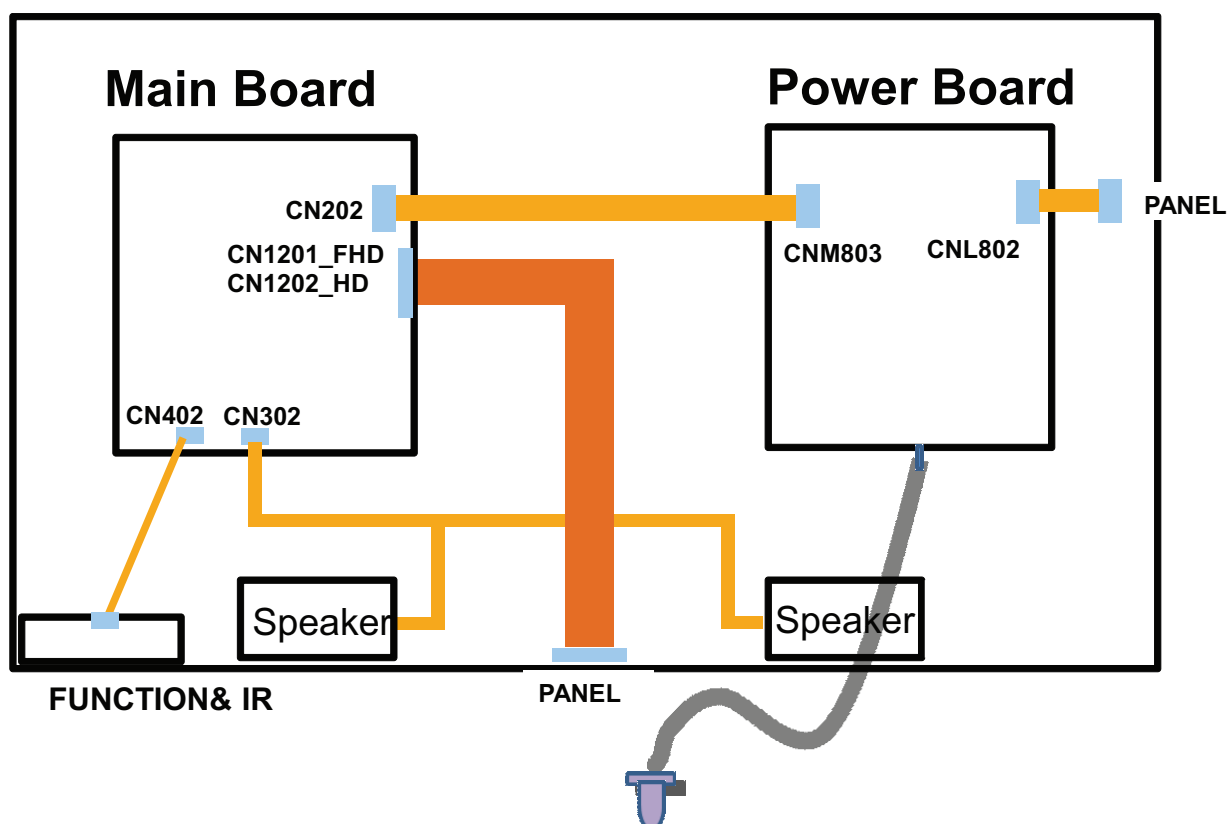


7. Wait for upgrade complete.
– Check the Software Version.



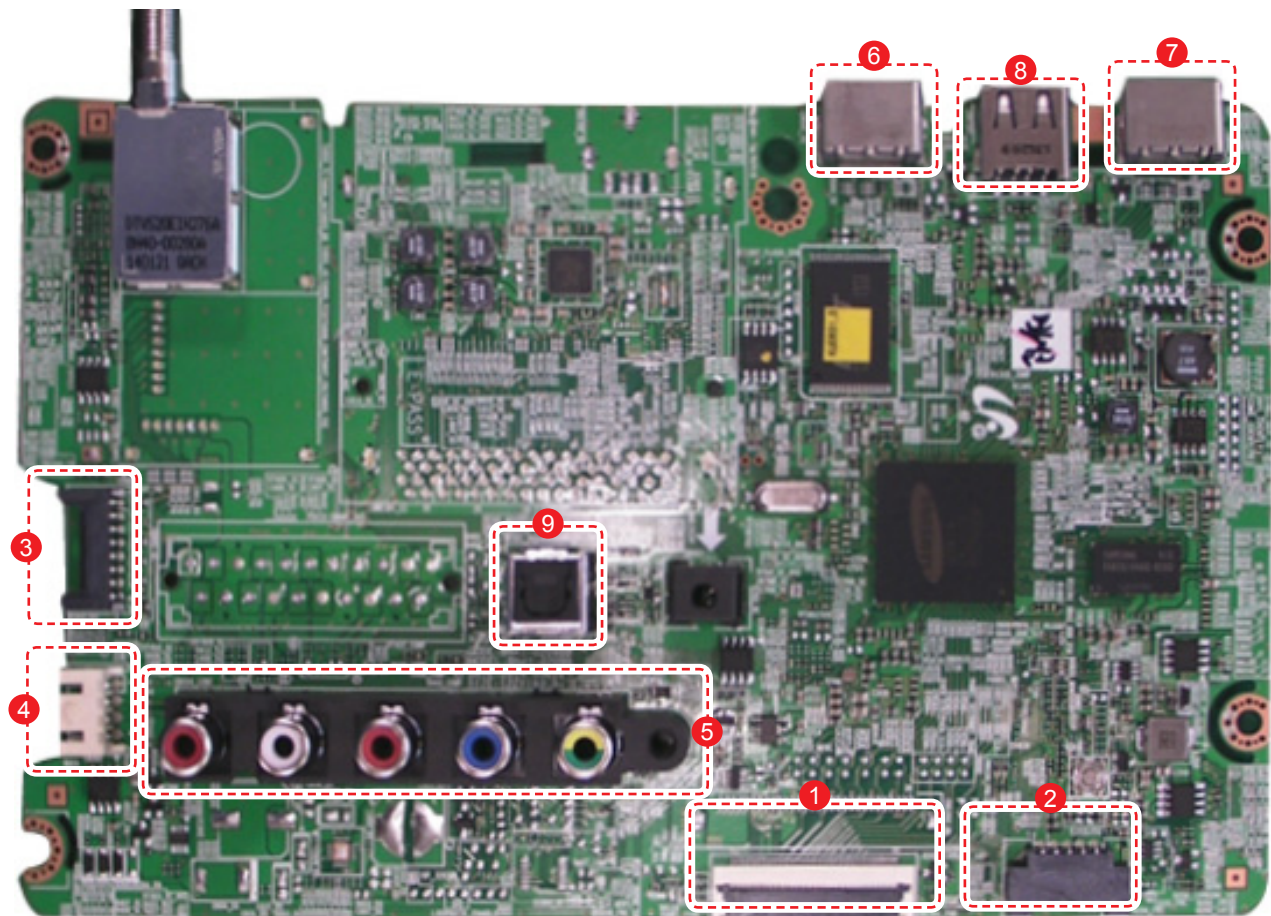
5. Wiring Diagram

5-1. Wiring Diagram



5-2. Connector

■ Main Board



① CN1201_FHD			
1	NC	14	EVEN_TX4+
2	GND	15	EVEN_TX4-
3	FRC_SDA	16	EVEN_TX3+
4	FRC_PWM1	17	EVEN_TX3-
5	FRC_SCL	18	GND
6	FRC_PWM3	19	EVEN_TXCLK-
7	FRC_PWM2	20	EVEN_TXCLK+
8	TCON_SDA	21	GND
9	PANEL_I2C_EN	22	EVEN_TX2+
10	BT_SYNC	23	EVEN_TX2-
11	UPDATE_CHK	24	EVEN_TX1+
12	TCON_SCL	25	EVEN_TX1-
13	GND	26	EVEN_TX0+

① CN1201_FHD			
27	EVEN_TX0-	40	ODD_TX1-
28	GND	41	ODD_TX0+
29	ODD_TX4+	42	ODD_TX0-
30	ODD_TX4-	43	GND
31	ODD_TX3+	44	GND
32	ODD_TX3-	45	GND
33	GND	46	FRC_PWM4
34	ODD_TXCLK+	47	PANEL_13V_PW
35	ODD_TXCLK-	48	PANEL_13V_PW
36	GND	49	PANEL_13V_PW
37	ODD_TX2+	50	PANEL_13V_PW
38	ODD_TX2-	51	PANEL_13V_PW
39	ODD_TX1+		

① CN1202_HD

1	VCC	16	EVENCLK+
2	VCC	17	EVENCLK-
3	VCC	18	GND
4	VCC	19	EVEN2+
5	VCC	20	EVEN2-
6	GND	21	GND
7	GND	22	EVEN1+
8	GND	23	EVEN1-
9	TCON_WP	24	GND
10	LVDS_FORMAT	25	EVEN0+
11	NC	26	EVEN0-
12	GND	27	GND
13	EVEN3+	28	SDA_PANEL
14	EVEN3-	29	SCL_PANEL
15	GND	30	NC

② CN202 (to Power board)

1	GND	6	SW_POWER_OUT
2	GND	7	A13V_PW
3	A13V_PW	8	PWM_DIMMING
4	GND	9	A13V_PW
5	A13V_PW	10	UNDER_DRIVER

③ CN402 (to Function/IR)

1	IR	5	MSDA
2	GND	6	KEY2
3	A3.3V	7	MEY1
4	MSCL	8	LED_STB

④ CN302 (SPEAKER)

1	R+	3	L+
2	R-	4	L-

⑤ CN404 (to Component&AV)

1	GND	9	TEST_PR
2	COMP2_Y_CVBS	10	GND
3	INDENT_VIEDO2	11	COMP1_SL_IN
4	GND	12	TEST_SL
5	COMP2_PB	13	GND
6	INDENT_COMP2	14	COMP1_SR_IN
7	GND	15	TEST_SR
8	COMP2_PR		

⑥ CN501_H1 (HDMI1)

1	HDMI1_RX2+	11	GND
2	GND	12	HDMI1_RXCLK-
3	HDMI1_RX2-	13	CEC
4	HDMI1_RX1+	14	NC
5	GND	15	HDMI1_SCL_DDC
6	HDMI1_RX1-	16	HDMI1_SDA_DDC
7	HDMI1_RX0+	17	GND
8	GND	18	HDMI1_5V
9	HDMI1_RX0-	19	HDMI1_HOT_PLUG
10	HDMI1_RXCLK+		

⑦ CN502_H2 (HDMI2)

1	HDMI2_RX2+	11	GND
2	GND	12	HDMI2_RXCLK-
3	HDMI2_RX2-	13	CEC
4	HDMI2_RX1+	14	ARC2_SIGLE
5	GND	15	HDMI2_SCL_DDC
6	HDMI2_RX1-	16	HDMI2_SDA_DDC
7	HDMI2_RX0+	17	GND
8	GND	18	HDMI2_5V
9	HDMI2_RX0-	19	HDMI2_HOT_PLUG
10	HDMI2_RXCLK+		

⑧ CN1101 (USB1)

1	USB_VSS	3	USB_DP
2	USB_DM	4	GND

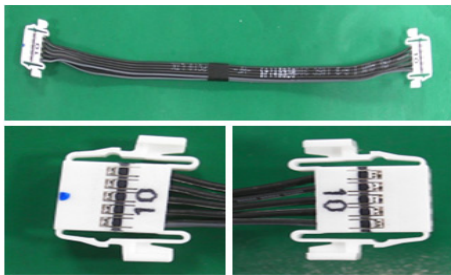
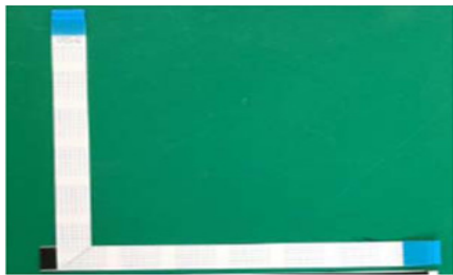
⑨ OP301_OP (OPTICAL)

1	SPDIF_OUT	3	GND
2	B5V		

5-3. Connector Functions

Connector	Function
CN202 ↔ CNM803	Supply main power and dimming signal from SMPS to Main Board.
CN1201_FHD ↔ T-CON	The LVDS signal transferred from Main Board to Panel.

5-4. Cables

Use	Model	LEAD (Main-IP)	LVDS CALBE (Main - panel FHD)
Code No.	58J5000	BN39-01885H	BN96-33236E
Image	/		
Use	Model	FUNCTION CABLE	FUNCTION
Code No.	58J5000	BN39-01935A	BN96-30902V
Image	/	