



LED TV

Project UN4300N

Chassis : UAV81

Model : UA32N4300AK

SERVICE Manual

LED TV



UA32N4300AK

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2. Product specifications
3. Disassembly and Reassembly
4. Troubleshooting
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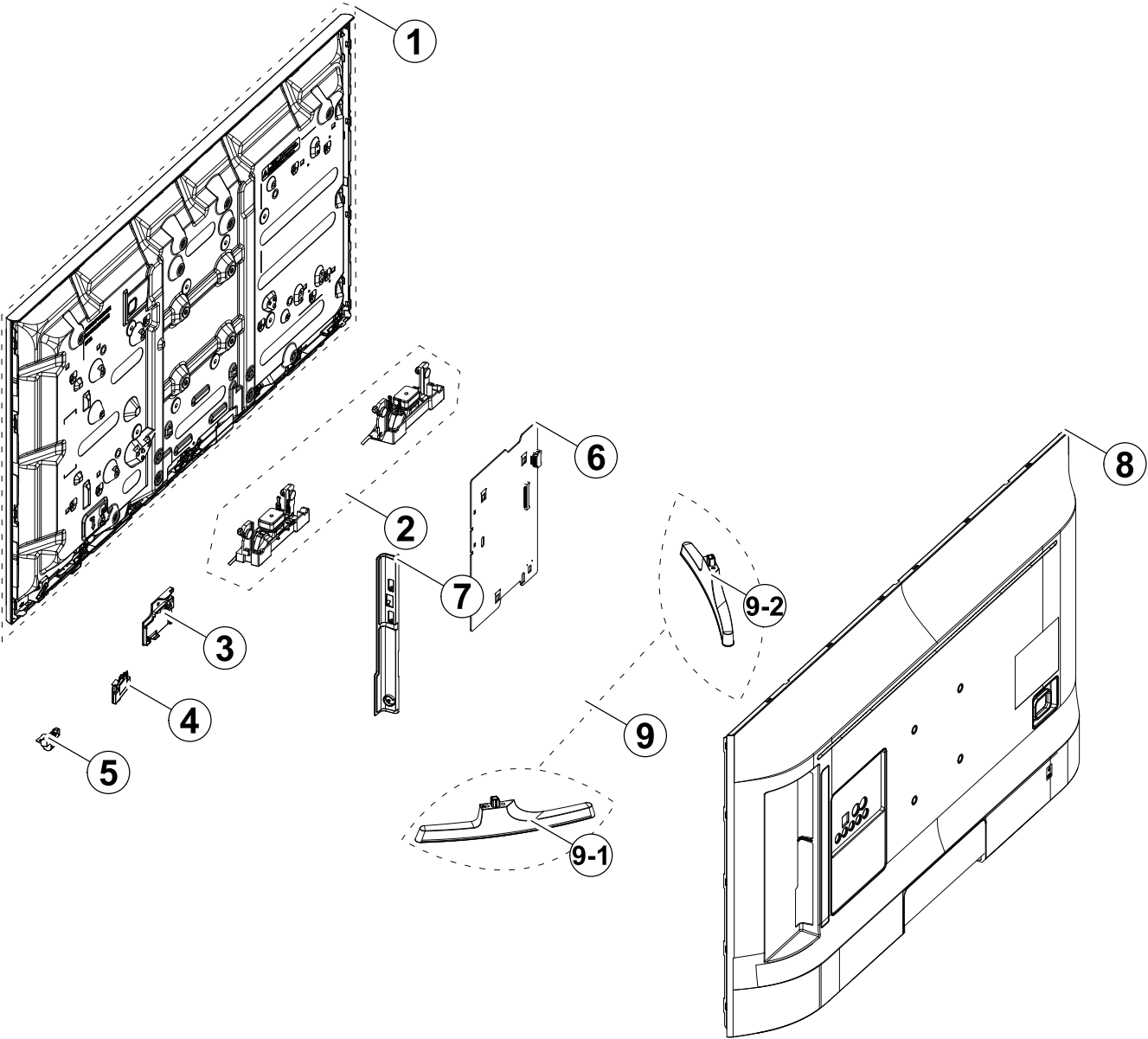


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1. Exploded View & Part List

Exploded View



Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	2	PANEL	BN07-01583E	LCD-PANEL; CY-JN032AGLR5V,RNJ4AL5,737.37x	SA	1
2	2	SP01A	BN96-36052A	ASSY SPEAKER P-FRONT; TV-SPK,J4003,6ohm,5	SA	1
3	2		BN61-11586A	HOLDER-WIFI; JU7500,ABS,BK0007,HB	SNA	1
4	2	WIFI	BN59-01174D	NETWORK-WLAN CLIENT; WIDT30Q,55x24x5.8mm	SA	1
5	2		BN96-39802J	ASSY BOARD P-FUNCTION ONE KEY; Y18 NU8000	SA	1
6	2	M0014	BN94-13598M	ASSY PCB MAIN; 4K	SA	1
7	2		BN63-15392E	COVER-TERMINAL SIDE; 40M5000,HIPS,T1.5,HB	SA	1
8	2	R001A	BN96-46613V	ASSY COVER P-REAR; 32UN4300N,HIPS,HB,BK00	SA	1
9	2	SB04A	BN96-36499F	ASSY STAND P-COVER BOTTOM; 32J4003,PC+ABS	SA	1
9-1	3		BN63-13872C	COVER-STAND TOP LEFT; 32J4003,PC+ABS,V-0,	SNA	1
9-2	3		BN63-13875C	COVER-STAND TOP RIGHT; 32J4003,PC+ABS,V-0	SNA	1

2. Electrical Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
			UA32N4300AKXXV (LC04)		
1	S001A	BN90-07130F	ASSY STAND;J5000	1	SNA
..2	SB04A	BN96-36499F	ASSY STAND P-COVER BOTTOM;32J4003,PC+ABS	1	SA
..3		BN63-13872C	COVER-STAND TOP LEFT;32J4003,PC+ABS,V-0,	1	SNA
...4		BN63-17699A	SHEET-PROTECTION COVER;F-LED 3D VE,Al,T0	1	SNA
..3		BN63-13875C	COVER-STAND TOP RIGHT;32J4003,PC+ABS,V-0	1	SNA
...4		0103-005041	RESIN PC ABS;FR3200TV/901408,Black,BK000	77	SNA
..3		BN63-17305A	SHEET-PROTECTION COVER;PET,T0.05,W18,CLE	0	SNA
..3	RF01	BN67-00524A	FOOT-RUBBER;J4003,RUBBER,GRAY,T2.5,,	4	SNA
..3		BN68-05603A	LABEL-E PASS;ART,W/W,90g	1	SNA
..3		BN69-08751A	PACKING SHRINKAGE;STAND,PLASTIC,T0.015,W	0	SNA
..3		BN96-18013E	ASSY ACCESSORY-SCREW;ALL MODEL,6003-0017	1	SNA
...4	SCREW	6003-001782	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	SA
...4		BN69-08203E	BAG SCREW;LDPE,0.05,70,90,TRP,Vinyl pack	1	SNA
1	R001A	BN90-09723U	ASSY COVER REAR;4K	1	SNA
..2	R001A	BN96-46613V	ASSY COVER P-REAR;32UN4300N,HIPS,HB,BK00	1	SA
..3		BN60-00162W	SPACER-FOAM;PE FOAM,L50M,GRAY,T1,W10	0	SNA
..3	R001	BN63-17671N	COVER-REAR;32UN4300N,HIPS,T2,HB,BK0020,M	1	SNA
...4		0103-004628	RESIN HIPS;HF-1690H,K2901,BK0020,HB,High	1200	SNA
...4		BN68-05603E	LABEL-RESIN;ART,W8,L50,UL LABEL (COVER R	3	SNA
..3		BN64-03902H	INLAY-TERMINAL SIDE;49M5300,PET,T0.125,W	1	SNA
..3	T0071	BN64-04081M	INLAY-TERMINAL;32UN5300M,PS,T0.3,W114.5,	1	SNA
1		BN90-09724C	ASSY W/I;4k	1	SNA
..2		BN81-08159Z	A/S PART SET-ELEC W/I;LED TV ELEC spec-C	1	SNA
..2		BN81-16295A	A/S PART SET-MECH W/I;UN4300N,U32NN*	1	SNA
1		BN91-19088L	ASSY LCD;UM4*	1	SNA
..2	PANEL	BN07-01583E	LCD-PANEL;CY-JN032AGLR5V,RNJ4AL5,737.37x	1	SA
1	M0017	BN91-20470T	ASSY CHASSIS;TV	1	SNA
..2	M0014	BN94-13598M	ASSY PCB MAIN;4K	1	SA
..3		BN62-00835A	HEAT SINK-PS;M5300/M5500/M6300,A1050,T1.	1	SNA
..3		BN68-05458A	LABEL-BARCODE;ALL,ART,W45,L12,BLACK,WHIT	1	SNA
..3		BN97-12948A	ASSY DRM;KANT-S,ISDB,NagSam,MAC,HDMP	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		BN46-00640A	KEY CODE-CERTIFICATION;KANT-S,Nagra CSC	1	SNA
..3		BN97-15200B	ASSY SMD;TV	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

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	DS01A	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	SA
...4	DS01A	0401-001116	DIODE-SWITCHING;BAV99DW,75V,215mA,SOT-36	2	SA
...4	DS01A	0401-001166	DIODE-SWITCHING;BAV20WS-V,200V,250mA,SOD	2	SA
...4	DR01A	0402-002006	DIODE-RECTIFIER;SBR6100CTL,100V,6A,TO-25	1	SA
...4		0403-001411	DIODE-ZENER;BZT52-B5V6S,5.49~5.73V,200mW	1	SA
...4		0403-001785	DIODE-ZENER;NZH5V1B,4.94~5.2V,500mW,SOD-	1	SA
...4		0404-001307	DIODE-SCHOTTKY;SSC54,40V,5000mA,DO-214AB	1	SA
...4		0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	3	SA
...4		0406-001200	DIODE-TVS;RClamp0504F,6V,1MAV,TP	2	SA
...4		0406-001635	DIODE-TVS;SMF5.0A,6.4V,6.7V,7V,200MAV,20	1	SA
...4		0406-001778	DIODE-TVS;PUSB3FR4,6V,9V,0.2MAV,0.7VPA,0	5	SA
...4		0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	4	SA
...4		0504-000126	TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4.7K,S	1	SA
...4		0505-002560	FET-SILICON;AO6415,P,20V,-3.3A,0.15ohm,1	1	SA
...4		0505-002598	FET-SILICON;AP2317GN,P,20V,-4.2A,0.052oh	3	SA
...4		0505-003224	FET-SILICON;AO6405,P,30V,-5A,0.052ohm,2W	1	SA
...4		0505-003397	FET-SILICON;2N7002K,N,60V,0.38A,1.19ohm,	7	SA
...4		0505-003620	FET-SILICON;AOD4286,N,100V,14A,55.5mohm,	1	SA
...4		1001-001545	IC-ANALOG MULTIPLEX;TS3USB221ERSER,R-PQF	1	SA
...4		1103-001584	IC-EEPROM;M24512-DFMN6TP,512Kbit,64K x 8	1	SNA
...4		1105-002755	IC-DDR3 SDRAM;H5TQ2G63GFR,2Gbit,128Mx16,	2	SA
...4		1201-003690	IC-AUDIO AMP;TAS5747PHPR,QFP,48P,DUAL,PL	1	SA
...4		1203-004363	IC-VOL. DETECTOR;SOT-23,3Z30,2.9x1.6mm,P	1	SA
...4		1203-006130	IC-POSIFIXED REG.;S-1172B25-U5T1G,SOT-8	1	SA
...4		1203-008030	IC-DC/DC CONVERTER;TPS54531DDA,SO PowerP	1	SA
...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		1203-008392	IC-VOL. DETECTOR;S-6414AAB-L800X,TSOT-23	1	SA
...4		1203-008393	IC-DDR TERMINATION REG.;AP2303MTR-G1-89,	1	SA
...4		1203-008728	IC-BACKLIGHT DRIVER;BD9413F,SOP,18P,11.2	1	SA
...4		1203-008734	IC-DC/DC CONVERTER;RT6214,TSOT-23,6,3x1.	2	SA
...4		1203-008919	IC-DC/DC CONVERTER;SYD104AADC,TSOT23,6P,	1	SA
...4		1203-008921	IC-DC/DC CONVERTER;SYU236ARAC,QFN,20P,3x	1	SA
...4		1204-003739	IC-DECODER;SDP1604(NagSam),HS-LFBGA,576P	1	SA
...4		1205-005519	IC-SWITCH;ET20163,SOT23-5,5P,2.95x3.02mm	1	SA
...4		1405-001232	VARISTOR;6.4V,5.6VDC,30A,1608,TP,19V,200	4	SNA
...4		1405-001271	VARISTOR;35V,20VDC,5A,1005,TP,100V,10pF	14	SA
...4		1405-001381	VARISTOR;11V,8VDC,30A,1608,TP,25V,500pF	2	SA
...4		2007-000039	R-CHIP;0ohm,1%,1/10W,TP,1608	4	SA
...4		2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608,T0.45	2	SA
...4		2007-000137	R-CHIP;2Kohm,5%,1/16W,TP,1005	10	SA
...4		2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005,T0.35	22	SA
...4		2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005,T0.35	47	SNA
...4		2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005,T0.35	27	SA
...4		2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	3	SNA
...4		2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005,T0.35	28	SNA
...4		2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005,T0.35	2	SA
...4		2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005,T0.35	9	SA
...4		2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SNA
...4		2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	SA
...4		2007-000592	R-CHIP;22ohm,1%,1/4W,TP,3216	1	SA
...4		2007-000614	R-CHIP;24Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-000779	R-CHIP;33ohm,1%,1/10W,TP,1608	4	SNA
...4		2007-000879	R-CHIP;4.7ohm,1%,1/10W,TP,1608	1	SA
...4		2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005,T0.35	4	SA
...4		2007-001042	R-CHIP;56ohm,1%,1/10W,TP,1608	1	SNA
...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	11	SA
...4		2007-001298	R-CHIP;51ohm,5%,1/16W,TP,1005,T0.35	1	SA
...4		2007-001323	R-CHIP;3Kohm,5%,1/16W,TP,1005	1	SA
...4		2007-002749	R-CHIP;3.3ohm,5%,1/4W,TP,3216	2	SNA
...4		2007-002906	R-CHIP;200Kohm,1%,1/10W,TP,1608	2	SA
...4		2007-003022	R-CHIP;62ohm,5%,1/16W,TP,1005,T0.35	24	SNA
...4		2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005,T0.35,-	20	SA
...4		2007-007134	R-CHIP;39Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...4		2007-007135	R-CHIP;18Kohm,1%,1/16W,TP,1005,T0.35	3	SNA
...4		2007-007137	R-CHIP;1.2Kohm,1%,1/16W,TP,1005,T0.35	2	SA
...4		2007-007138	R-CHIP;27Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...4		2007-007139	R-CHIP;47Kohm,1%,1/16W,TP,1005,T0.35	6	SA
...4		2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005,T0.35	6	SA
...4		2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005,T0.35	2	SA
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005,T0.35	6	SA
...4		2007-007311	R-CHIP;22Kohm,1%,1/16W,TP,1005,T0.35	8	SA
...4		2007-007312	R-CHIP;20Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...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	28	SNA
...4		2007-007334	R-CHIP;200Kohm,1%,1/16W,TP,1005,T0.35	7	SA
...4		2007-007382	R-CHIP;20Mohm,5%,1/10W,TP,1608	1	SA
...4		2007-007405	R-CHIP;560ohm,1%,1/16W,TP,1005,T0.35	2	SA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		2007-007443	R-CHIP;3.01Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-007470	R-CHIP;7.5Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005,T0.35	4	SNA
...4		2007-007526	R-CHIP;23.7Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-007528	R-CHIP;1.5Kohm,1%,1/16W,TP,1005,T0.35	2	SA
...4		2007-007538	R-CHIP;56Kohm,1%,1/16W,TP,1005,T0.35	1	SNA
...4		2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005,T0.35	3	SNA
...4		2007-008035	R-CHIP;160Kohm,1%,1/10W,TP,1608	1	SA
...4		2007-008136	R-CHIP;36Kohm,1%,1/16W,TP,1005	2	SA
...4		2007-008137	R-CHIP;24Kohm,1%,1/16W,TP,1005,T0.35	1	SNA
...4		2007-008167	R-CHIP;120Kohm,1%,1/16W,TP,1005,T0.35	2	SC
...4		2007-008263	R-CHIP;3Kohm,1%,1/16W,TP,1005,T0.35	1	SNA
...4		2007-008269	R-CHIP;51Kohm,1%,1/16W,TP,1005	2	SNA
...4		2007-008517	R-CHIP;240Kohm,1%,1/16W,TP,1005,T0.35	1	SA
...4		2007-008720	R-CHIP;4.7ohm,1%,1/4W,TP,3216	4	SNA
...4		2007-008779	R-CHIP;0ohm,1%,1/16W,TP,1005	1	SA
...4		2007-009234	R-CHIP;0.47ohm,1%,1/4W,TP,3216	4	SNA
...4	AD480	2203-000138	C-CER,CHIP;1.5nF,10%,50V,X7R,TP,1005	1	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	2203-000311	C-CER,CHIP;0.12nF,5%,50V,C0G,TP,1005	1	SA
...4	AD480	2203-000359	C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,T0.	3	SA
...4	AD480	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	11	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	2	SA
...4	AD480	2203-000627	C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005	3	SA
...4	AD480	2203-000679	C-CER,CHIP;0.027nF,5%,50V,C0G,TP,1005	3	SA
...4	AD480	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005	2	SA
...4	AD480	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,TP,1608	3	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,T0	4	SNA
...4	AD480	2203-000995	C-CER,CHIP;0.047nF,5%,50V,C0G,TP,1005	2	SNA
...4	AD480	2203-001124	C-CER,CHIP;0.68nF,10%,50V,X7R,TP,1005	1	SA
...4	AD480	2203-001412	C-CER,CHIP;0.03nF,5%,50V,C0G,TP,1005	3	SNA
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	11	SNA
...4	AD480	2203-003019	C-CER,CHIP;8.2nF,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	3	SA
...4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,T0.	2	SNA
...4	AD480	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005,T0.	112	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005,T0.5	12	SNA
...4	AD480	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608	2	SA
...4	AD480	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,T0	6	SA
...4	AD480	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005,T0	7	SA
...4	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608,T0	4	SA
...4	AD480	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005	12	SA
...4	AD480	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	30	SNA
...4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,T	4	SNA
...4	AD480	2203-007240	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608,	12	SA
...4	AD480	2203-007269	C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2	9	SA
...4	AD480	2203-007270	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,T	6	SNA
...4	AD480	2203-007306	C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,T	7	SNA
...4	AD480	2203-007486	C-CER,CHIP;1000nF,10%,50V,X5R,TP,1608	1	SA
...4	AD480	2203-007544	C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,T0.	9	SA
...4	AD480	2203-008096	C-CER,CHIP;2200nF,10%,50V,X5R,TP,2012,1.	3	SA
...4	AD480	2203-008315	C-CER,CHIP;22000nF,20%,25V,X5R,TP,2012,T	8	SA
...4	AD480	2203-009740	C-CER,CHIP;1000nF,10%,100V,X7R,TP,3216,T	2	SA
...4		2402-001268	C-AL,SMD;100uF,20%,25V,WT,TP,8x6.3mm	1	SA
...4		2402-001276	C-AL,SMD;47uF,20%,35V,TP,6.6x6.6x5.8mm	1	SNA
...4		2409-001338	C-POLYMER ,CHIP;47uF,20%,6.3V,TP,3.2x1.6	2	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	2	SA
...4		2703-003149	INDUCTOR-SMD;2.2uH,20%,0.055Ohm,3000mA,W	1	SA
...4		2703-003790	INDUCTOR-SMD;4.7uH,20%,8080,0.025Ohm,450	1	SA
...4		2703-004575	INDUCTOR-SMD;22uH,20%,16x15mm,T8.5,0.045	1	SNA
...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	1	SA
...4		2703-005192	INDUCTOR-SMD;4.7uH,20%,6060,T4.5,0.036Oh	2	SA
...4		2801-003773	CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50Oh	1	SA
...4		3301-000314	BEAD-SMD;120ohm,1608,TP,120ohm/100MHz	1	SA
...4		3301-001364	BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz,	5	SNA
...4		3301-002039	BEAD-SMD;26ohm,1608,TP	25	SA
...4		3301-002315	BEAD-SMD;120ohm,3216,TP	1	SNA
...4		3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL	2	SA
...4		3701-001967	CONNECTOR-HDMI;19P,A,FEMALE,AU,0.5mm,BLK	2	SA
...4		3707-001106	CONNECTOR-OPTICAL;STRAIGHT,SPDIF,2.5PI	1	SA
...4		3708-001150	CONNECTOR-FPC/FFC/PIC;30P,1mm,SMD-A,SN,Y	1	SA
...4		3711-007776	CONNECTOR-HEADER;BOX,8P,1R,1.25mm,SMD-A,	1	SA
...4	EH01	3711-008131	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN	1	SA
...4	EH01	3711-008690	HEADER-BOARD TO CABLE;BOX,8P,1R,2.5mm,AN	1	SA

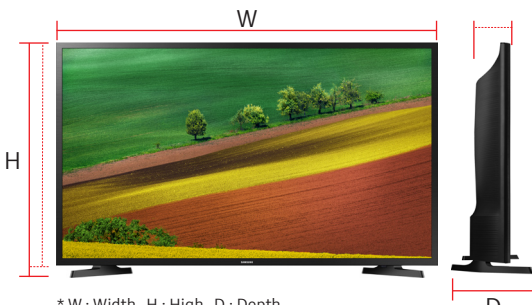

Exploded Views and Parts List

Level	Loc.	Part Code	Description & Specification	Qty.	SA/SNA
...4		3711-009090	CONNECTOR-HEADER;BOX,16P,1R,1.25mm,SMD-A	1	SA
...4		3722-003229	JACK-MODULAR;8P/8C,Y,STRAIGHT,NONE,AU,1P	1	SA
...4		3722-003322	JACK-DC POWER;6P/4C,4PI,SN/PB,BLK,12.4x1	1	SA
...4		3722-003457	JACK-USB;4P/1C,NI,BLK,ANGLE,A,2.0,13.1x1	1	SA
...4	JACK PIN	3722-003546	JACK-PIN;5P,NI/SN,BLU/GRN/RED/WHT/YEL,SM	1	SA
...4		6302-001376	GASKET-SMD;SMT Gasket,Sn/Cu plated PI-Fi	7	SNA
...4		BN40-00330B	TUNER-DTV AIR CABLE;GTTH-7A11,DVB-TC,38.	1	SA
...4		BN41-02663A	PCB-MAIN;N5300,FR-4,4L,T1.2,144.5x214mm,	1	SNA
...4	CB07	BN61-13312B	BRACKET-SCREWLESS PCB;55KS8000,SK5,T0.3,	4	SNA
...4		BN97-14483A	ASSY MICOM-SUB;T-KTSNINTV-0005_D,UN5300/	1	SNA
....5		1107-002226	IC-NOR FLASH;W25Q40CLSSIP,4Mbit,SOIC,8P,	1	SA
...4		BN97-14484A	ASSY MICOM-MAIN;T-KTSNUABC-0725.1,UN5500	1	SNA
....5		1107-002644	IC-EMMC;THGBMNG5D1LBAIT,4Gbyte,x1,BGA,15	1	SNA
1		BN91-20577F	ASSY SHIELD;TV	1	SNA
.2		BN02-00102B	TAPE-SINGLE FACE;OPP,T0.15,W25,L50M,WHIT	0	SNA
.2		BN39-02223D	LEAD CONNECTOR-SUB ASSY;32K5300,UL21016,	1	SA
.2		BN39-02230A	LEAD CONNECTOR-SUB ASSY;39.5K5300,UL2101	1	SA
.2	WIFI	BN59-01174D	NETWORK-WLAN CLIENT;WIDT30Q,55x24x5.8mm	1	SA
.2		BN61-11586A	HOLDER-WIFI;JU7500,ABS,BK0007,HB	1	SNA
.2		BN63-15392E	COVER-TERMINAL SIDE;40M5000,HIPS,T1.5,HB	1	SA
...3		0103-004628	RESIN HIPS;HF-1690H,K2901,BK0020,HB,High	16	SNA
.2		BN96-35954K	FFC CABLE;UE32M4000,Fold,L450,30P,172x10	1	SA
.2	SP01A	BN96-36052A	ASSY SPEAKER P-FRONT;TV-SPK,J4003,6ohm,5	1	SA
.2		BN96-39802J	ASSY BOARD P-FUNCTION ONE KEY;Y18 NU8000	1	SA
1		BN92-23282A	ASSY P/MATERIAL;4K	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	50	SNA
.2		6902-002594	BAG ROLL;HDPE/PE FOAM,T0.015/T0.5,W1000,	1	SNA
.2		6922-000013	BAND;PP,T0.8,W18,L2300 M,TRP	0	SNA
.2		BN02-00319A	TAPE-SINGLE FACE;OPP,T0.05,W60,L800M,CLE	1039	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	2	SNA
.2		BN69-17053T	PACKING ANGLE;ALL,PAPER,T3,W1950,L50,YEL	0	SNA
.2		BN69-17970A	CUSHION-SET;32UN5000,EPS,16.7g/l,WHITE,W	1	SNA
...3		BN81-01918A	A/S-RESIN;EPS,SG-302	0	SNA
1	ACCE1	BN92-23482Y	ASSY ACCESSORY;4K	1	SNA
.2	P001A	BN44-00835B	DC VSS(A);A4819N_FDY,19V,2.53A,100-240V,	1	SA
.2		BN96-46911G	ASSY ACCESSORY MANUAL CABLE;UA32N4300AKX	1	SNA
...3	T0268	3903-001118	POWER CORD-DT;EUR,2P-F,250V,2.5A,BLK,L15	1	SA
...3		4301-000121	BATTERY-MN;1.5V,R03,10.5x44.5m,7.5g,AAA	2	SNA

Level	Loc.	Part Code	Description & Specification	Qty.	SA/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		BN59-01303A	REMOCON-TV;2018 TV,SAMSUNG,44KEY,3V,EURO	1	SA
..3	T0527	BN68-00513A	LABEL-E PASS;ALL MODEL,WW,YUPO,W50,L15,W	1	SNA
..3		BN68-09116J	MANUAL USERS;UA32N4300AKPXV,XV,VIET NAM,	1	SNA
1		BN92-23585R	ASSY BOX;4K	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		BN69-18023Q	BOX UNIT;32N4300,CB,SW4,F1,L869,W117,H47	1	SNA
1		BN92-23616J	ASSY LABEL;4k	1	SNA
.2		BN68-06708G	LABEL-RATING;Monitor,WW,PP,T0.161,W93,L7	1	SNA
.2		BN68-09075J	LEAFLET-QUICK SETUP GUIDE;UN4300 AFR & M.E	1	SNA
.2		BN68-09164P	LABEL-ENERGY;UA32N4300AKPXV,XV,ART,T0.1,	1	SNA


2. Product Specifications

2-1. Product information

Model	UA32N4300AK		
Front View	 <p>* W : Width H : High D : Depth</p>		
Detail View			
Color	Front :BLACK(HAIR LINE) / Stand : BLACK / Deco : -		
Dimensions (W x H x D)	32"	Body	737.4 x 438.0 x 74.1 mm
		With Stand	737.4 x 465.4 x 150.5 mm
Weight	32"	Without Stand	3.8 kg
		With Stand	3.9 kg

2-2. Product specification

2-2-1. Detailed Specifications

 **NOTE**

Design and specifications are subject to change without prior notice.

Last Update Date : 2018.05.21

Item		UA32N4300AKXXV
General Information	Product	LED
	Cabinet Basic Code	U32NN1
	Series	4
	Country	VIET NAM
	Tools Support	N/A
	Platform(TV)	SoC KANT-S
Display	Inch	32
	Real Inch	31.5
	Real cm	80
	Resolution	1,366 x 768
	Screen Curvature	N/A
	10bit Support	N/A
	Ultra Black	N/A
Video	Picture Engine	Hyper Real
	Motion Rate	50
	PQI (Picture Quality Index)	400
	HDR (High Dynamic Range)	Yes
	HDR10+	N/A
	HLG (Hybrid Log Gamma)	N/A
	Contrast	Mega Contrast
	Color	PurColor
	Viewing Angle	N/A
	Micro Dimming	Micro Dimming Pro
	Local Dimming	N/A
	Auto Depth Enhancer	N/A
	Contrast Enhancer	Yes
	Auto Motion Plus	N/A
	Film Mode	Yes
	Picture	WSS,HDMI Black Level
	Response Time	8ms
	Viewing Angle (H/V)	178/178
	Natural Mode Support	Yes

Item		UA32N4300AKXXV
Audio	Dolby Digital Plus	Yes
	DTS Codec	N/A
	Harman Sound	N/A
	Hole Array Speaker	N/A
	Sound Output (RMS)	10W
	Speaker Type	2CH
	Woofer	N/A
	Main Speaker Output (W)	5W+5W
	Woofer Speaker Output (W)	N/A
	Twitter Speaker Output (W)	N/A
	Multiroom Link	Yes
	Bluetooth Audio	N/A
Smart Service	Smart TV Type	Smart
	Bixby	N/A
	Voice Interaction	N/A
	TV Plus	N/A
	Web Browser	Yes
	SmartThings App Support	Yes
	SmartThings	N/A
	Smart View	N/A
	Universal Guide	N/A
	Gallery	Yes
VESA Standard	Screw Size	M4
	Screw depth	26.0-28.0
	VESA Spec	100.0 x 100.0
Smart Feature	TV to Mobile - Mirroring	N/A
	Mobile to TV - Mirroring, DLNA	Yes
	360 Video Player	N/A
	360 Camera Support	N/A
	Together play	N/A
	Easy Setup	Yes(Only WiFi)
	App Casting	Yes
	Wireless TV On - Samsung WOL	Yes
	Wired TV On - Samsung WOL	Yes
	Bluetooth Low Energy	N/A
	WiFi Direct	Yes
	TV Sound to Mobile	N/A
	Sound Mirroring	N/A
Localization	S-Share	N/A

2. Product specifications

Item		UA32N4300AKXXV
Localization	Dongle Compatibility (3G / LTE / WiFi)	N/A
	Analog Clean View	Yes
	Senior mode	N/A
	Clean View	N/A
	Family TV 2.0	N/A
	Local Cinema Mode	N/A
	Triple Protection	Yes(VN only)
Feature	Art Mode (The Frame)	N/A
	Motion Detection (The Frame)	N/A
	Ambient Mode	N/A
	IMAX	N/A
	Instant On	Yes
	Processor	Quad-Core
	Accessibility	Voice guide(AU English)/ Enlarge/ High contrast/ Learn TV Remote(AU English)
	Digital Clean View	Yes
	Ultra Clean View	Yes
	Auto Channel Search	Yes
	Auto Power Off	Yes
	Caption (Subtitle)	Yes
	ConnectShare™ (HDD)	Yes
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes (Basic)
	OSD Language	Local
	Picture-In-Picture	N/A
	BT HID Support	N/A
	USB HID Support	Yes
	Teletext (TTX)	Yes
	Time Shift	N/A
	Invisible Connection	N/A
	V-Chip	N/A
	MBR Support	N/A
	IPv6 Support	Yes
	Gigabit	N/A
Additional Feature	-	-
System	Digital Broadcasting	DVB-T2(VN:DVB-T2C)

Item		UA32N4300AKXXV
System	DTV Sound System	DD+
	Analog Tuner	Yes
	Analog Tuner Type	NTSC 4.43, VIT,PAL-B/G, D/K, I, I/I',SECAM-B/G, D/K,SECAM-B/G, D/K, L/L'
	2 Tuner	N/A
	CI (Common Interface)	N/A
	Data Broadcasting	N/A
	ATV Sound System	M,BG,I,DK
	Tuner Vendor & Model	CNXG(Xuguang) GTTH-7A11
	TV Key	Yes
Core Component	DDR SDRAM	Hynix
	Flash Memory	EMMC Toshiba
	Serial Flash Memory	WINBOND
	HDMI Switch	N/A
	Display Device Vender	CSOT
Connectivity	HDMI	2
	Resolution	1366x768p 60
	DVI Support Port	ALL
	MHL Support Port	N/A
	USB	1
	Port 1 Type	2.0
	Port 2 Type	N/A
	Port 3 Type	N/A
	Port 4 Type	N/A
	Port 5 Type	N/A
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1
	Ethernet (LAN)	1
	Audio Out (Mini Jack / LR)	N/A
	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
	CI Slot	N/A
	Monitor Output	N/A
	DVI	
	Resolution	1366x768p 60
	D-Sub Resolution	N/A N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	Yes

2. Product specifications


Item		UA32N4300AKXXV
Connectivity	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	Yes
Design	Design	Slim Edge Mold
	Bezel Type	VNB
	Slim Type	Semi Slim
	Front Color	Black Hairline
	Light Effect (Deco)	N/A
	Stand Type	Mini Arc
	Swivel (Left/Right)	N/A
Eco	Energy Efficiency Class	5
	Eco Sensor	Yes
Power	Power Supply (V)	AC100-240V 50/60Hz
	Power Consumption (Max) (W)	48
	Power Consumption (Energy Saving Mode) (W)	N/A
	Power Consumption (Stand-by) (W)	0.50
	Power Consumption (Typical)	N/A
	Peak Luminance Ratio (%)	N/A
	Yearly Power Consumption (EU standard) (kWh)	N/A
	AC Input Power Freq. (Hz)	50/60Hz
	SMPS/IP Board	DongYang E&P

2-2-2. Specifications


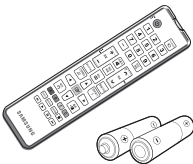


■ Specifications

Model	UA32N4300AK
Item	Description
Screen Size (Diagonal)	32 inches
LCD Panel	HD 60Hz
Display Colors	16.7M color
Display Resolution	1,366 x 768
Input Signal	Analog 0.7 Vp-p \pm 5% positive at 75 Ω , internally terminated
Input Sync Signal	H/V Separate, TTL, P. or N.
Environmental Considerations	Operating Temperature: 50 °F ~ 104 °F (10 °C ~ 40 °C) Operating Humidity: 10% ~ 80%, non-condensing Storage Temperature: -4 °F ~ 113 °F (-20 °C ~ 45 °C) Storage Humidity: 5% ~ 95%, non-condensing
AC Power Voltage & Frequency	AC100~240V 50/60Hz
Sound (Output)	10 W (5W+5W)

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.
- The provided accessories may vary depending on the model.

Product	Description	Code. No	Remark
	Power Adaptor	BN44-00835B	
	Remote Control & Batteries	BN59-01303A	
		4301-000121	
	Power Cord	3903-001118	
	Manual Users	BN68-09116J	

3. Disassembly and Reassemble

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









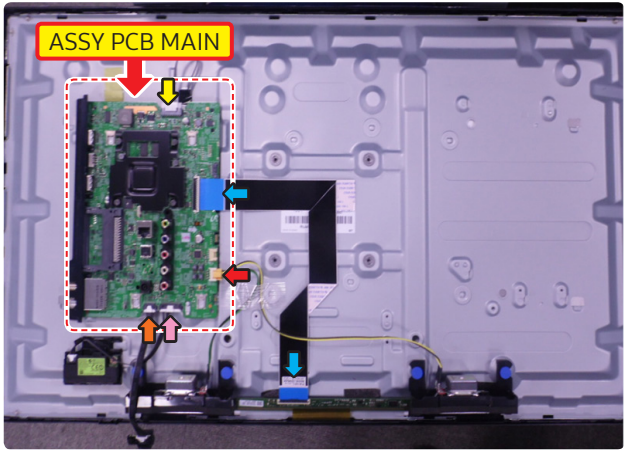
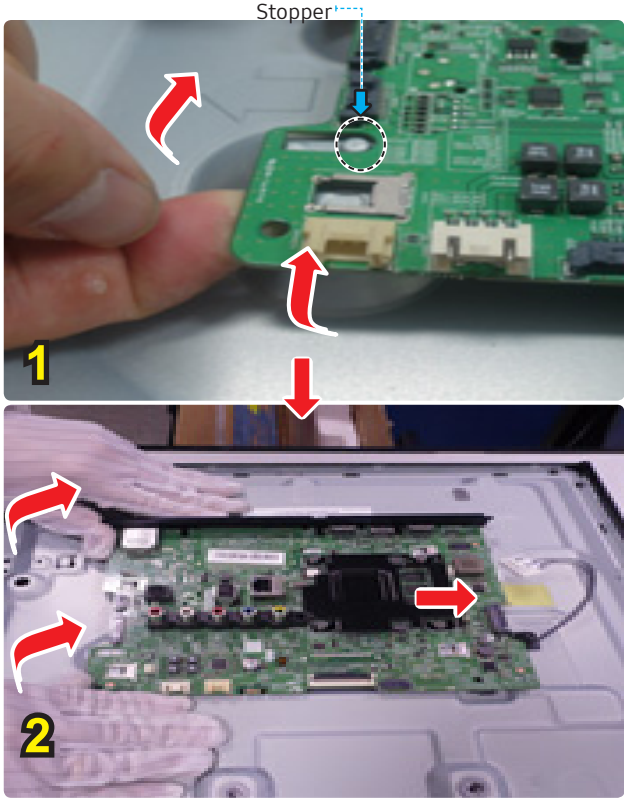


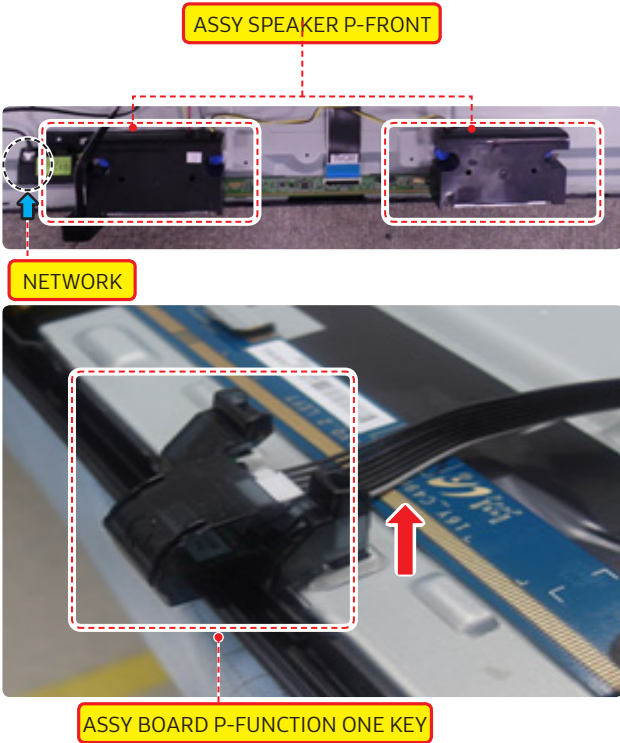

1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

3-1. Disassembly

Description & Screws	Picture Description
<p>1 Place TV facing down on the table with a flat cushion.</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 ASSY STAND P-COVER BOTTOM Screws(4ea) and then pull out the ASSY STAND P-COVER BOTTOM.</p> <p>Screws</p> <div></div> <p>6003-001782 x 4 EA</p>	

3. Disassembly and Reassemble

Description & Screws	Picture Description
<p>3 Remove the ASSY COVER P-REAR.</p> <div> <p> NOTE</p> <ul style="list-style-type: none"> 3-1-1. Disassembly_ASSY COVER P-REAR) </div> <div> <p>Open Jig</p> </div> <div>  </div>	
<p>4 Remove the LED Cable, LVDS Cable, ASSY SPEAKER P-FRONT Cable, NETWORK Cable and ASSY BOARD P-FUNCTION ONE KEY Cable.</p> <ul style="list-style-type: none">  LED Cable  LVDS Cable  ASSY SPEAKER P-FRONT Cable  NETWORK Cable  ASSY BOARD P-FUNCTION ONE KEY Cable 	
<p>5 Removing ASSY PCB MAIN.</p> <ol style="list-style-type: none"> Gently lift up (Bottom Right corner) to release the lock. Use both hands to hold the board and slide UP to release the board. 	

Description & Screws	Picture Description
6 Remove the ASSY SPEAKER P-FRONT, NETWORK and ASSY BOARD P-FUNCTION ONE KEY.	 <p>ASSY SPEAKER P-FRONT</p> <p>NETWORK</p> <p>ASSY BOARD P-FUNCTION ONE KEY</p>
7 Completed disassembly.	

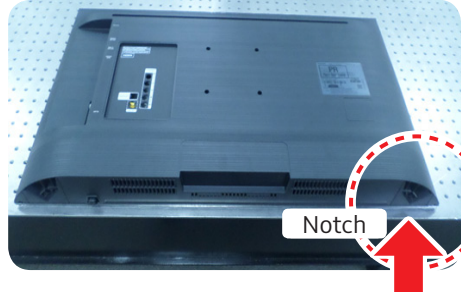

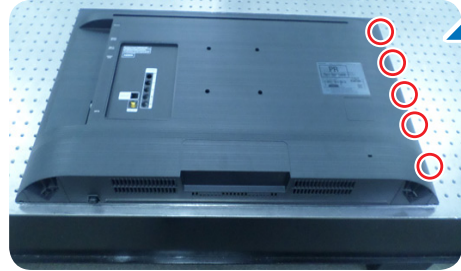


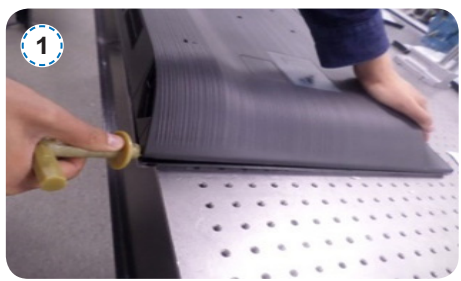
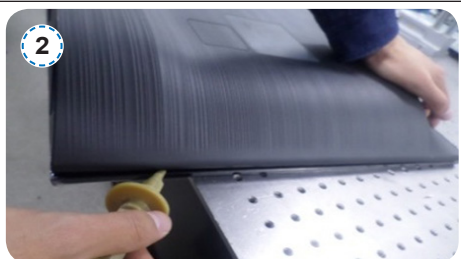
**NOTE**



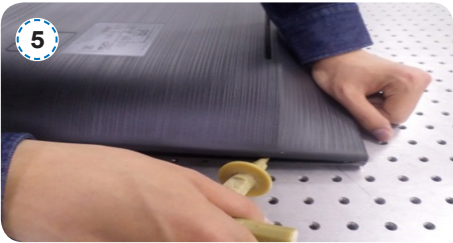
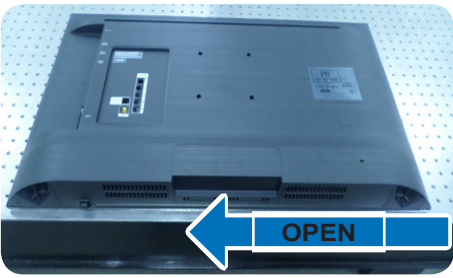


Reassembly procedures are in the reverse order of disassembly procedures.

**CAUTION**

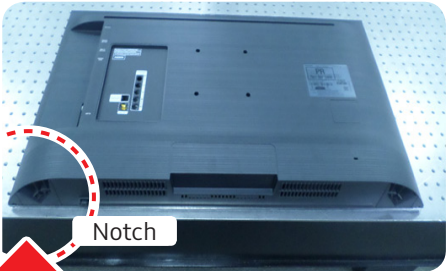
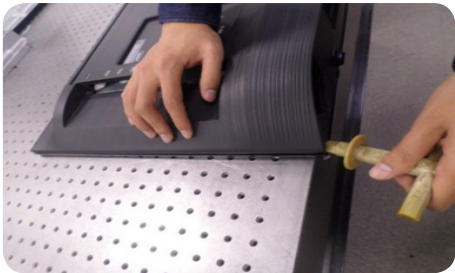

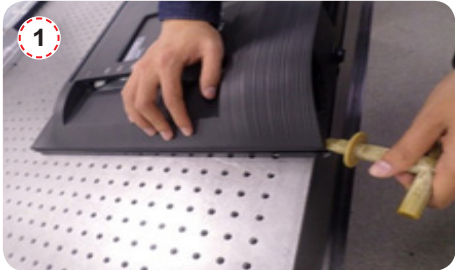

- Be careful during disassembly at Parting(must glove).
- Be careful during disassembly at corner ribs.
- Hooks can be damaged when disassembling is done by hands or tools which is bigger than Opening-Jig.
- Be careful the damage of Chassis-Front and Cover-Rear.



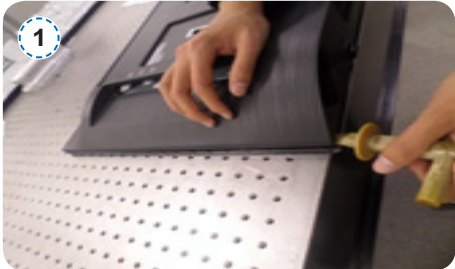




3-1-1. Disassembly (ASSY COVER P-REAR)

Description & Screws	Picture Description
<div>1</div> <div>Open the bottom corner hook 2EA(Right side and bottom side).</div>	<div><p>Notch</p></div> <div></div>
<div>2</div> <div>Open the side 5EA hook using JIG one by one as the photo show the JIG location.</div>	<div></div> <div></div> <div></div> <div><div>1</div></div> <div><div>2</div></div>

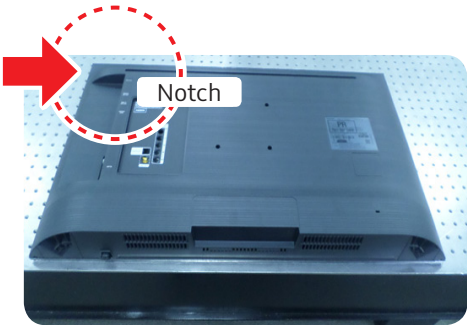

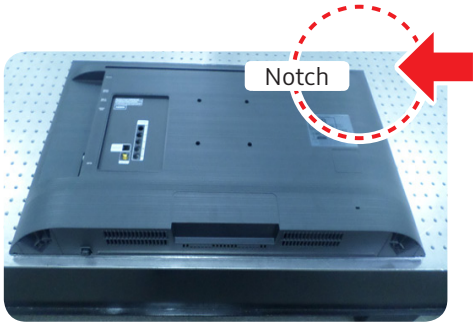

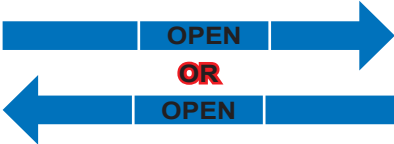
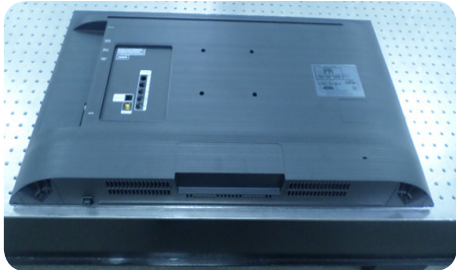
Description & Screws	Picture Description
	
	
	
3 From bottom side to bottom middle open the bottom hook.	
	
	

3. Disassembly and Reassemble

Description & Screws	Picture Description
<div>4</div> <div>Open the bottom corner hook 2EA(Left side and bottom side).</div>	<div><div>Notch</div></div> <div></div>
<div>5</div> <div>From bottom side to bottom middle open the bottom hook.</div>	<div><div>OPEN</div></div> <div><div>1</div></div> <div><div>2</div></div>

Description & Screws	Picture Description
6 Open the side 5EA hook using JIG one by one as the photo show the JIG location.	
	
	
	
	
	
	

3. Disassembly and Reassemble

Description & Screws	Picture Description
<div>7</div> <div>Open the top corner hook(Left side).</div>	<div><p>Notch</p></div> <div></div>
<div>8</div> <div>Open the top corner hook(Right side).</div>	<div><p>Notch</p></div> <div></div>
<div>9</div> <div>Open the top hook use the hand (Put t he hand on the Cover-rear top edge).</div>	<div></div> <div></div>

Description & Screws	Picture Description
	
	
	OR
	
	



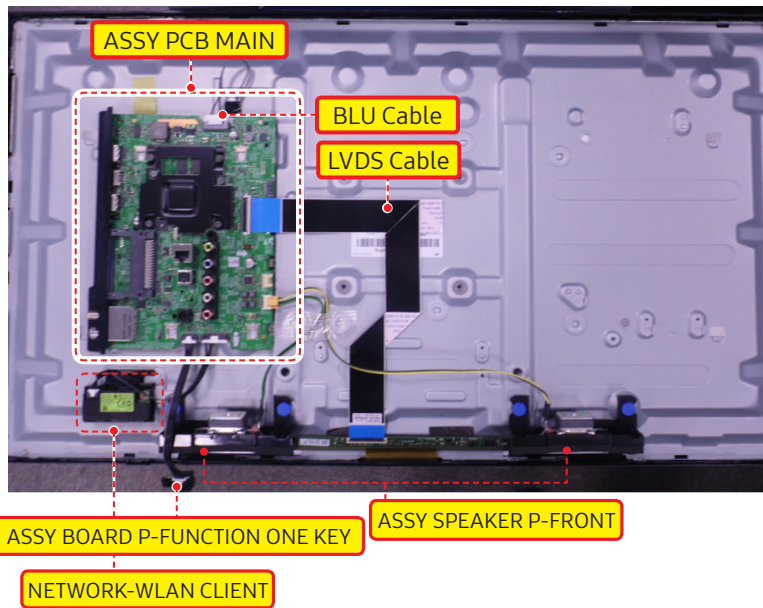
Reassembly procedures are in the reverse order of disassembly procedures.

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 ASSY PCB MAIN.



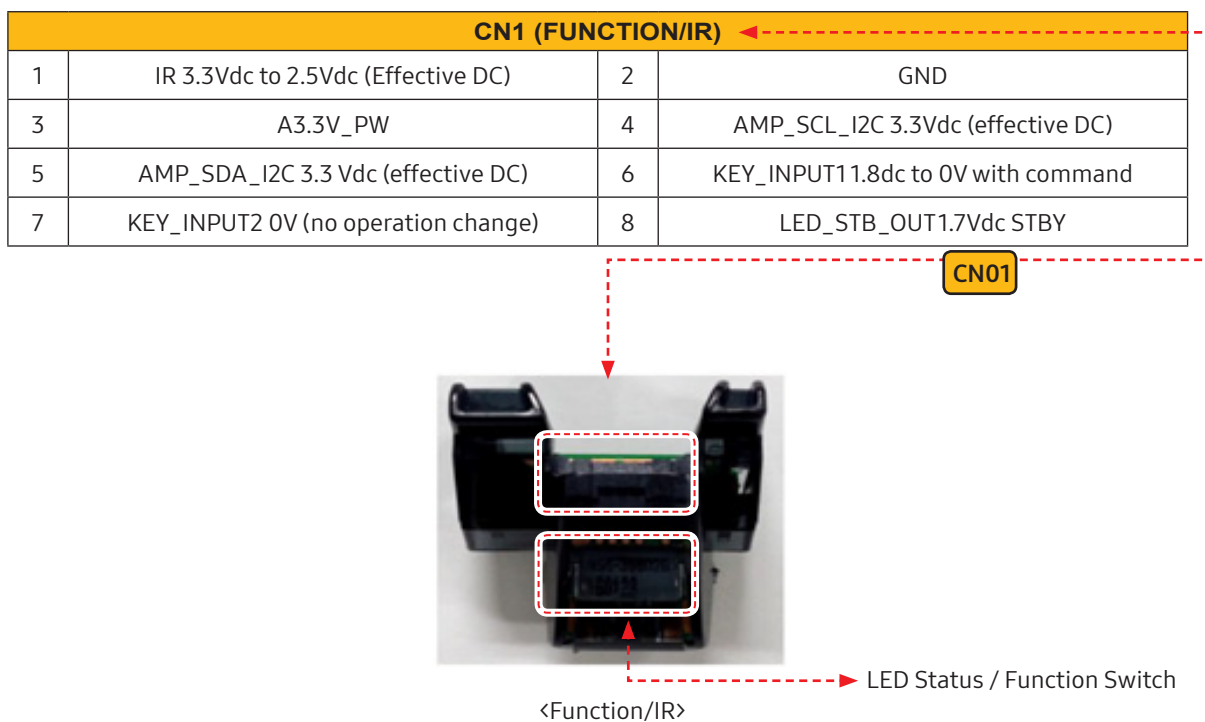
4-2. How to Check Fault Symptom

4-2-1. Power

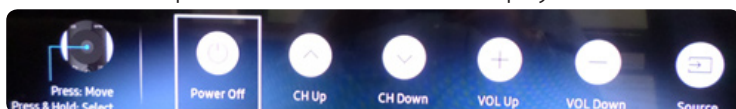
■ TV POWER STANDBY

1. TV in Standby
 - ✓ Standby LED Indicator
2. If Not Lit:
 - ✓ AC 120Vac Line
3. If missing:
 - ✓ 120Vac Source and Power Cord
4. If OK:
 - ✓ Resistance on SMPS **Fuse(s)** after first removing AC power cord.
5. If fuses are open replace SMPS.
6. If fuses are OK:
 - ✓ **Standby: A19V** (Always On) to Main Board.
7. If any missing remove the Adaptor connector to Main Board .
 - ✓ Standby A19V .
 - If OK replace Main Board.
 - If still missing replace Adaptor .

■ FUNCTION/IR Control



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

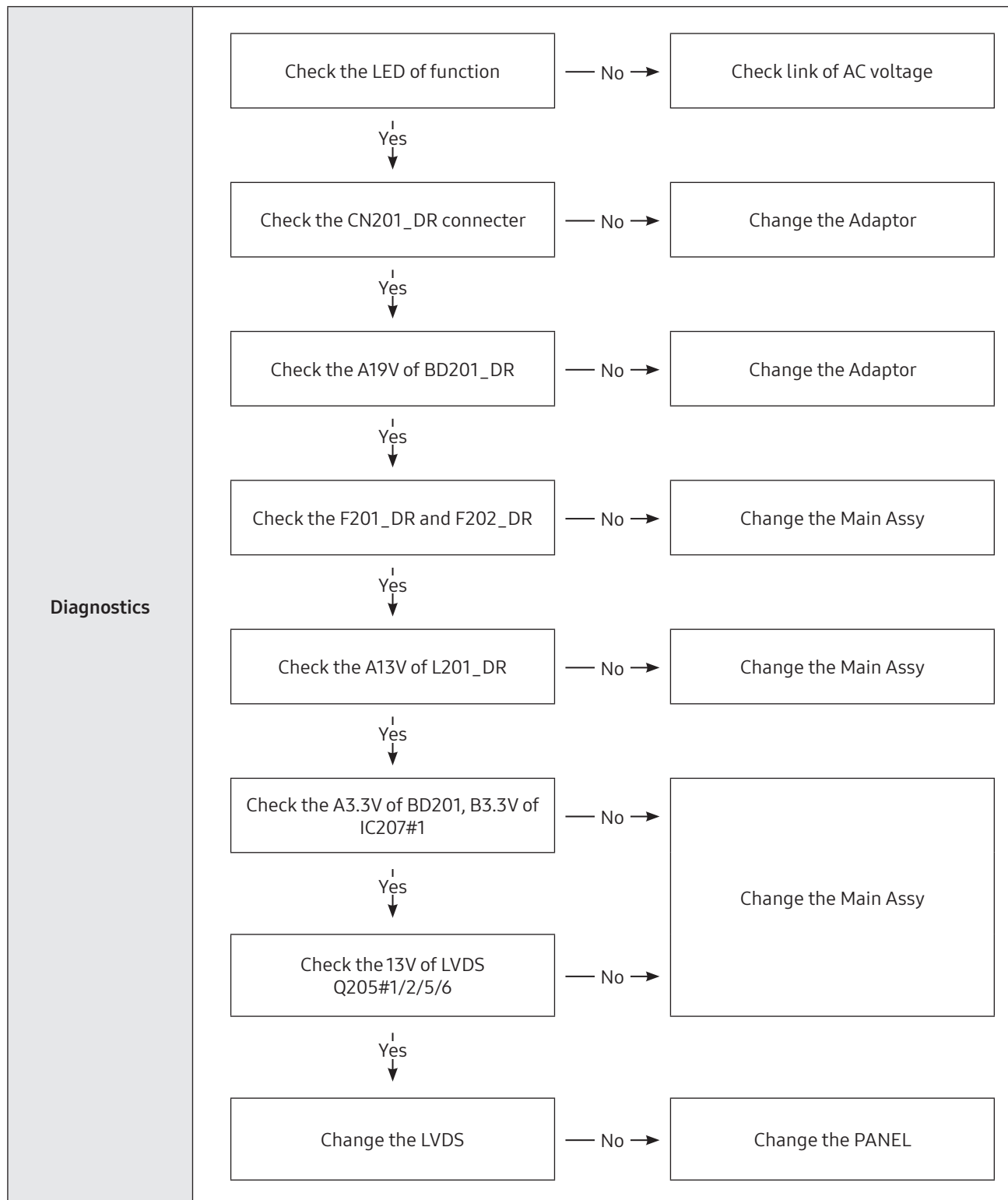


<On Screen Selections with Function Control>

- If missing:
✓ **Key _Input1 Pin 6** change to 0V with a command.
 - If wrong voltage or no change:
✓ Switch for stuck or miss-operation.
- Check **IR** operation with Standard Remote command changes. (3.3V to 2.5V effective DC)
 - SDA, SCL** for effective 3.3Vdc (after power on)
 - If missing suspect **Function Assy/Cable Assy/Main Assy**.

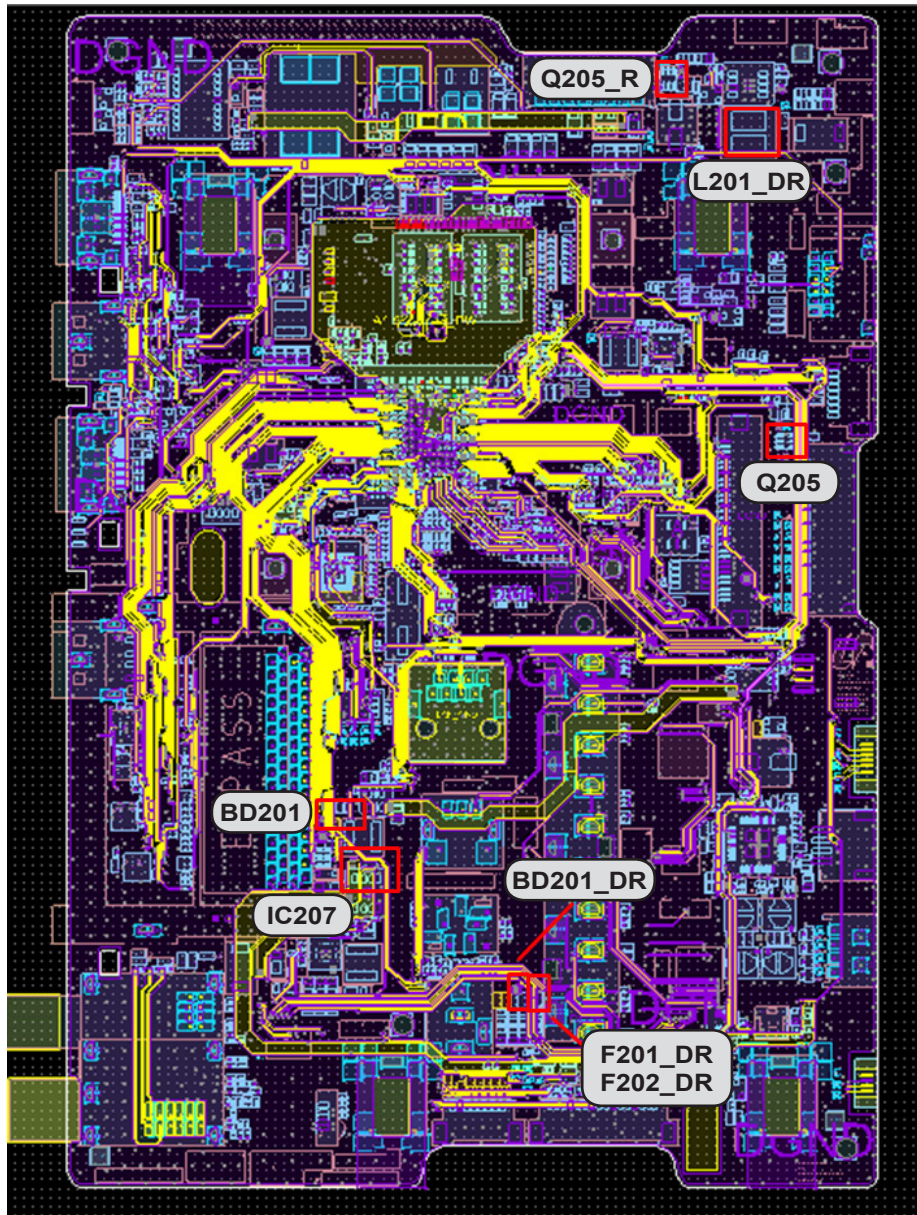
4-2-2. Main

■ No power & no picture



■ Location of Parts

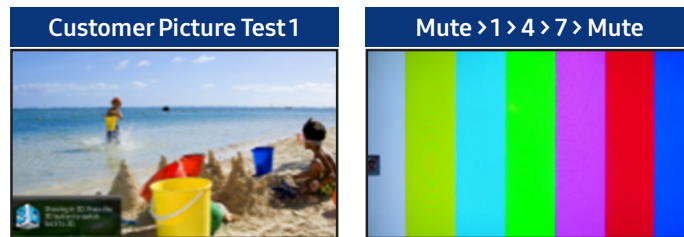
Main Board



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

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

■ Main Section

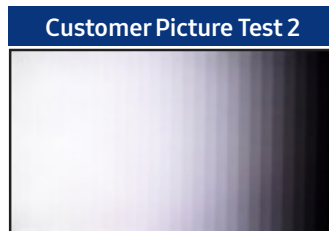


Video Operation

Generated on Main Section.

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

■ PRE FRC Section

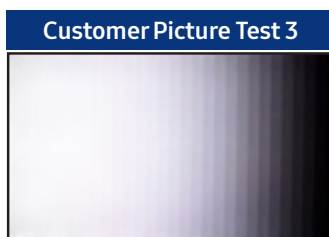


Video Operation

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



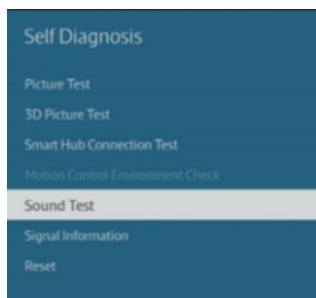
- Check Panel
1. **If Noisy Video:**
 - ✓ Soc T-CON Pattern in Factory Mode
 - Use type of Noise observed (Bars, single lines, video distortion, etc to help.)
 - If noise is only on one half of screen check / swap panel cables.
 - Verify Defective Panel Cables, TV Main/T-CON Board or Panel.

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.

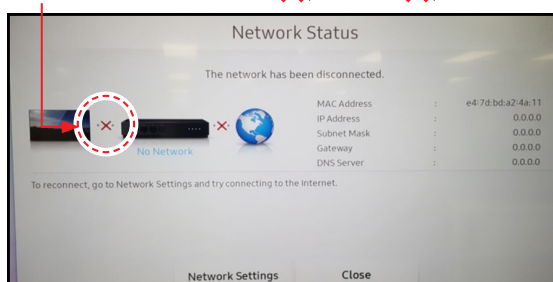
4-4. Network



■ 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"

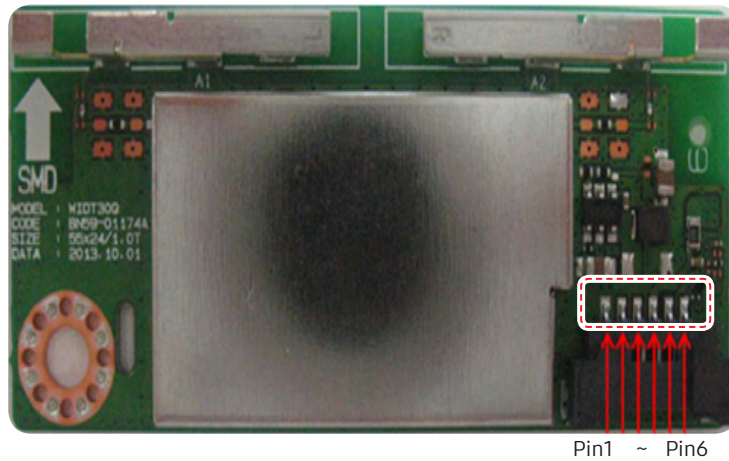
- ✓ **Check** Network Status

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.

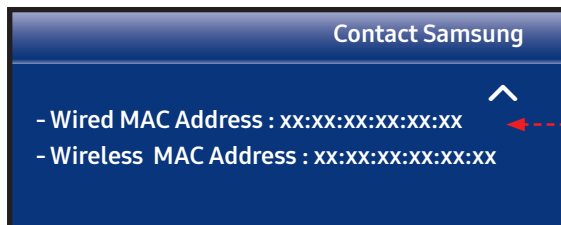
4-5. WiFi Module



■ Pin Description

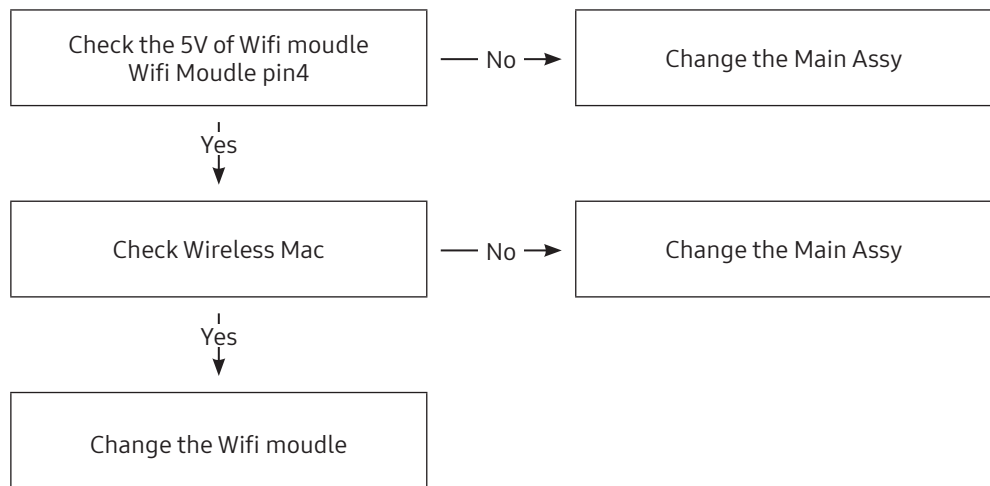
Pins	Pin Name	Description	Type
1	GND	Ground	G
2	USB DP	USB interface	I/O
3	USB DN	USB interface	I/O
4	B+_5V	+5V DC power supply for SWL-R55	V
5	Wake up	Sleep/OFF to ON	I/O
6	NC	-	-

Go to [Menu](#) → [Support](#) → [Contact Samsung](#)



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

Diagnostics



4-6. Factory Mode

■ Setting TV into Factory Mode



Sample Part NO.
: 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	32S6AH0JN
Local Set	ED_VIET
SW Model	UN4300
BOM Model	4300
TUNER	DVB-T2C
Ch Table	NONE

- 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-0510.30
 T-KTHOCTV-0043
 T-KTHOCJP-0043

 TIZEN-3.0-MAIN2017-KantM-RELEASE_20161210.3
 (Perf)
 BT Version : BLUETOOTH-VER-0647
 E-Manual : KTMATSC-0.0.3
 Biaster Version : A61110-U61001-170201
 E-POP Version : KANTMUD-12.06.1
 EDID SUCCESS
 HDCP SUCCESS
 CALIB : AV / COMP / PC / HDMI /
 Option : 6SL1MUBXM,U5,8CAM,NONE

 FRC-[KANT-M Vx1][120Hz][OC][DHW-0x04]
 DIMMING-[EDGE-24X1][03]
 TCON-[KANT-M] FW[8014] DATA[M65LBUQF13]
 TCON-[KANT-N] FW[8224] DATA[M65LBUNF1B]

 SPI Flash S/N: 1UR033AHC00061A

 Model : QN65Q8CAM
 Wired MAC SUCCESS
 Wireless MAC SUCCESS
 WIFI Version : 4.5.30.014.031.FC8

 CO N0/ W/ M/ D/ H2 PO AO O S/ N/ RO SC/ SIO WS/ DI/ UO (T)
 NS//
 Factory Data Ver: 17031 / Fixed Ver: 1706
 EERC Version : 61 / WB Ver: 1

 CPLD/LD : N/A
 SmartControl : 0
 Board Info : NA/RC/1/NA
 Factory Reset In Production : 0
 SID : ?
 Date of purchase : 3/26/2012

QUICKTIPS:-
 * 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 : UA32N4300AKXXV

Home	Updates	Exit		✓ Testing Items
Option			T-KTSNUABC_-xxxx	✓ Micom Version
Control			T-KTSINTV_-xxxx	✓ Sub Micom
Debug			TIZEN-3.0-MAIN2017-KantS-RELEASE_2017****.*	✓ Tizen
SVC			E-Manual : KSFISDBN-*.*.*	✓ E-Manual
ADC/WB			BlasterVersion :Not Support	✓ Blaster Version
Advanced			E-POP Version :xxxxxxx-*.*.*.*	✓ E-Pop Version
			EDID SUCCESS	
			HDCP SUCCESS	
			CALIB : AV/COMP/PC/HDMI/	
			Option : xxxxx,xxxx,xxxx,NONE	
			FRC-[Kant-S Vx1][60Hz]	
			DIMMING-[GLOBAL]	
			TCON Version: ----	
			Model : *****	
			Wired MAC SUCCESS	✓ Wired MAC Success
			Wireless MAC SUCCESS	✓ Wireless MAC Success
			WIFI Version: *****	✓ WIFI Version
			CO Nf/ W/ MO D/ H2 PO AO O S/ N/ RO SC/ SiO WS/ DI/	
			UO I/ (T)	
			NS//	
			Factory Data Ver : xxxxx / Fixed Ver : xxxxx	
			EERC Version : xxx / WB Ver : 1	
			CPLD/LD :N/A	
			SmartControl : ****	
			Board Info : ----	
			Factory Reset In Production : ----	
			SID : ----	
			Date of purchase : mm/dd/yyyyFactory Reset In	
			Production : ----	
			SID : ----	
			Date of purchase : mm/dd/yyyy	

4-7. Factory Mode Adjustments

4-7-1. 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.

Home	Updates	Exit
Option		
Control		
Debug		
SVC		
ADC/WB		
Advanced		

T-KTMAGUC-0510.30
T-KTHOCTV-0043
T-KTHOCP-0043

TIZEN-3.0-MAIN2017-KantM-RELEASE_20161210.3
(Perf)

BT Version : BLUETOOTH-VER-0647
E-Manual : KTHATSC-0.0.3
Blaster Version : A61110-U61001-170201
E-POP Version : KANTMUD-12.06.1
EDID SUCCESS
HDCP SUCCESS
CALIB : AI / COMP / PC / HDMI /
Option : 65L1MUBXH_US,BCAM,NONE

FRC-[KANT-M Vx1][120Hz][DC][HW-0u04]
DIMMING-[EDGE-24X1][03]
TCON-[KANT-M] FW[8014] DATA[M65LBUQF13]
TCON-[KANT-N] FW[8224] DATA[M65LBUNF18]

SPI Flash S/N: 1UR033AHC00061A

Model: QN65QB3CAM
Wired MAC SUCCESS
Wireless MAC SUCCESS
WiFi Version : 4.5.30.014.031.FC8

CO N/U / W / M / D / H2 PO AO O S / N / RD SC / SIO WS / DU / UO IT
NS//
FactoryData Ver : 17031 / Fixed Ver: 1706
EERC Version : 61 / WB Ver: 1

CPLD/ALD : N/A
SmartControl : 0
Board Info : NA/RIC/1/NA
FactoryReset In Production : 0
SID : 7
Date of purchase : 3/26/2012

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

4-7-2. 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".

■ UA32N4300AKXXV

• PANEL / ADAPTOR / MAIN Information

Multi BOM		CA01				
PANEL			Adaptor		MAIN	
Vendor	CSOT		Vendor	DYREL	ASSY CHASSIS	ASSY PCB MAIN
Code	Spec	Type	Code	Spec		
BN95-04930A	CY-JN032AGHV1V/H	32S6AH0JN	BN44-00835B	A4819N_FDY	BN91-19997V	BN94-13043X

Multi BOM		LB03				
PANEL			Adaptor		MAIN	
Vendor	CORETN		Vendor	DYREL	ASSY CHASSIS	ASSY PCB MAIN
Code	Spec	Type	Code	Spec		
BN07-01583A	CY-JN032AGLR1V	32A6AH0JN	BN44-00835B	A4819N_FDY	BN91-20470T	BN94-13598M

Multi BOM		LA02				
PANEL			Adaptor		MAIN	
Vendor	CORETN		Vendor	DYREL	ASSY CHASSIS	ASSY PCB MAIN
Code	Spec	Type	Code	Spec		
BN07-01585A	CY-JN032AGER1V	32B6AH0JN	BN44-00835B	A4819N_FDY	BN91-20470P	BN94-13598H

Multi BOM		LC04				
PANEL			Adaptor		MAIN	
Vendor	CORETN		Vendor	DYREL	ASSY CHASSIS	ASSY PCB MAIN
Code	Spec	Type	Code	Spec		
BN07-01583E	CORETN	32A6AH0JN	BN44-00835B	A4819N_FDY	BN91-20470T	BN94-13598M

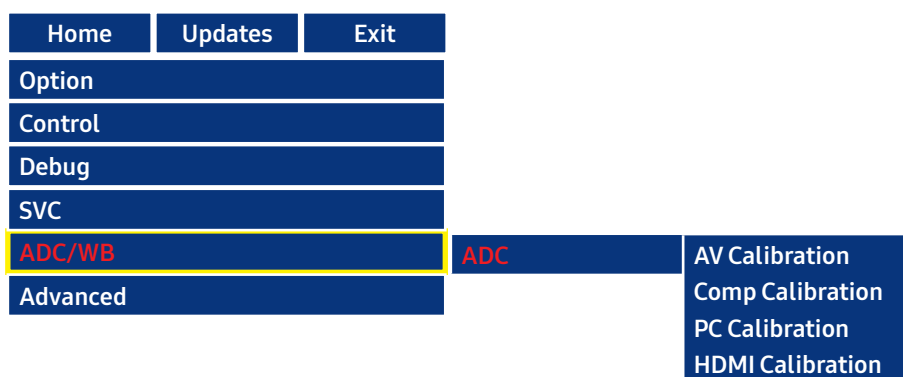
• Factory Option

Local Set	BOM Model	Front Color	S/W Model
ED_VIET	4300	F-F-N5K-32	UN4300

4-8. White Balance

4-8-1. Calibration

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



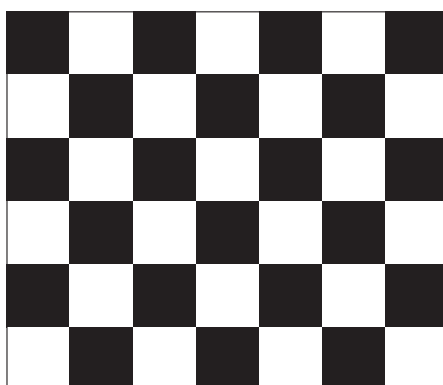
4-8-2. Service Adjustment

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

■ Color Calibration

- Adjust Specification

Source	Setting Mode	Pattern	
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 720p Lattice (N0. 21) pattern signal to the Component IN1 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 "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 "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.

4-8-3. Adjustment

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

Home	Updates	Exit
Option		
Control		
Debug		
SVC		
ADC/WB	White Balance	<div> <div>(Low light)</div> <div>Sub Bright</div> <div>R offset</div> <div>G offset</div> <div>B offset</div> </div> <div> <div>(High light)</div> <div>Sub Contrast</div> <div>R gain</div> <div>G gain</div> <div>B gain</div> </div>
Advanced		

4-9. Updating the TV's Software

View your TV's software version and update it if necessary.



-  >  [Settings](#) > [Support](#) > [Software Update](#)

4-9-1. Updating the TV's software to the latest version



DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. All video and audio settings return to their default settings after a software update.

■ Updating through the Internet

-  >  [Settings](#) > [Support](#) > [Software Update](#) > [Update Now](#)
- Updating from the Internet requires an active Internet connection.

■ Updating through a USB device

-  >  [Settings](#) > [Support](#) > [Software Update](#) > [Update Now](#)

After downloading the update file from the Samsung website and storing it on a USB device, connect the USB device to the TV to update.

- To update using a USB flash drive, download the update package from Samsung.com to your computer. Then, save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.

4-9-2. Updating the TV automatically

-  >  [Settings](#) > [Support](#) > [Software Update](#) > [Auto Update](#)

If the TV is connected to the Internet, you can have the TV update its software automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

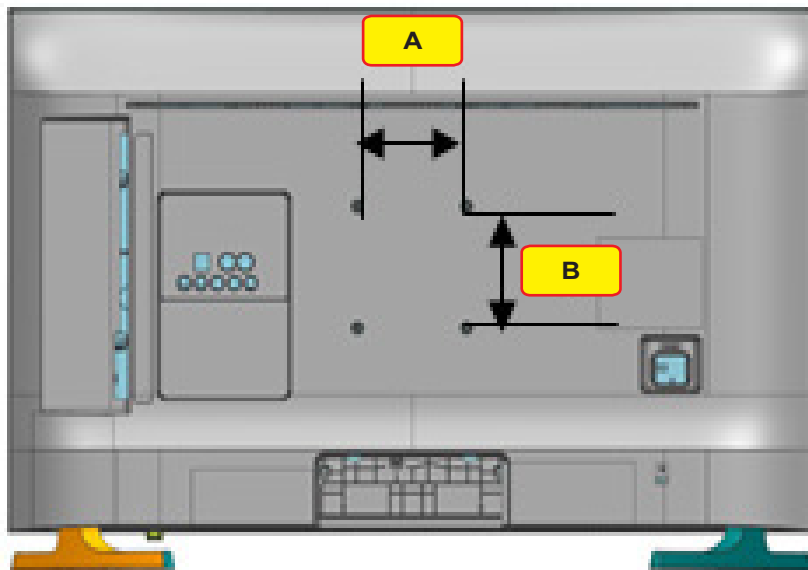
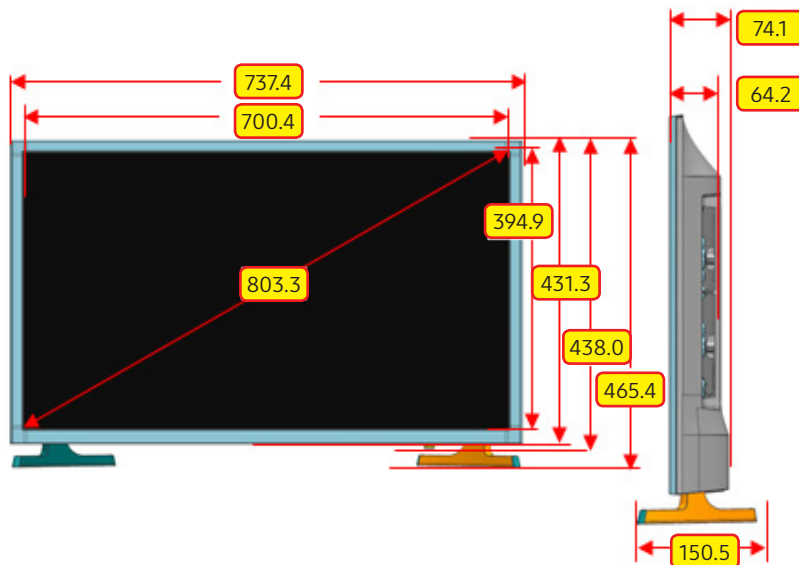
If you agree to the Smart Hub terms and conditions, [Auto Update](#) is set to [On](#) automatically. If you want this function disabled, use the Select button to turn it off.

- This function may take a longer time if another network function is running concurrently.
- This function requires an Internet connection.

4-10. Production Dimension

■ N4300 Models

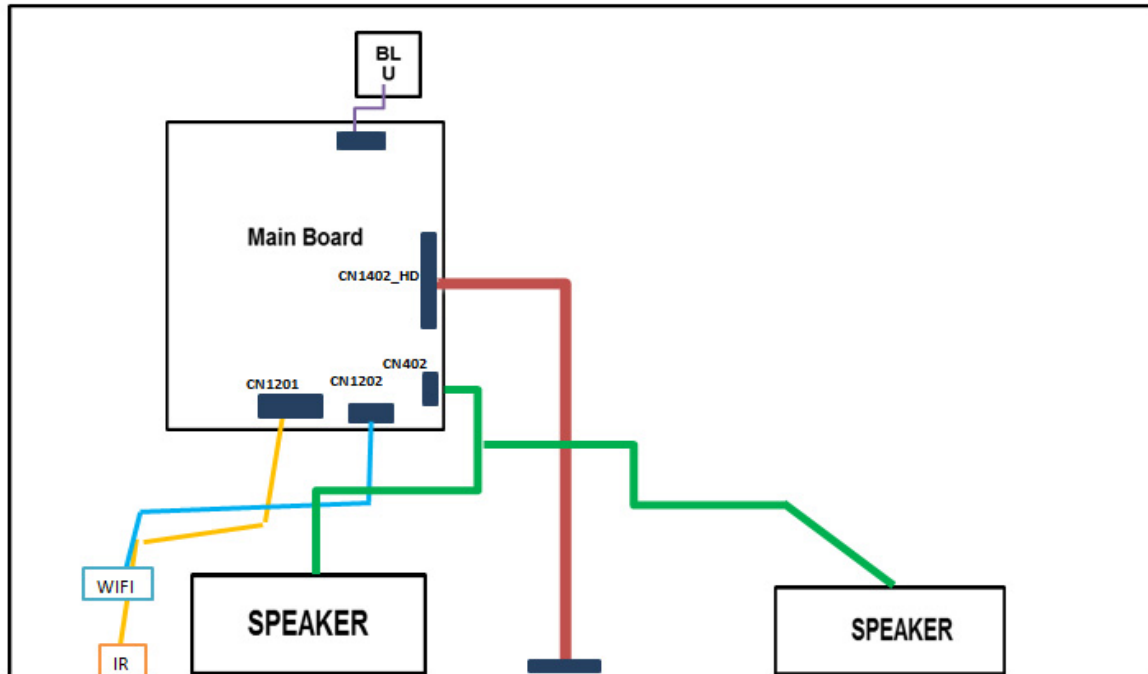
Item		32" (Mini Arc Stand)
SET Size (With Stand) mm		737.4 x 465.4 x 150.5
SET Size (Without Stand) mm		737.4 x 438.0 x 74.1
Opening Size (W * H, Diagonal) mm		700.4 x 394.9, 803.3
Wall - Mount (A * B) mm		100.0 x 100.0
Packing Size	W/W	879.0 x 500.0 x 127.0
NET (SET) Weight (With Stand) kg		3.9
NET (SET) Weight (Without Stand) kg		3.8
Gross Weight (After Packing) kg		5.6



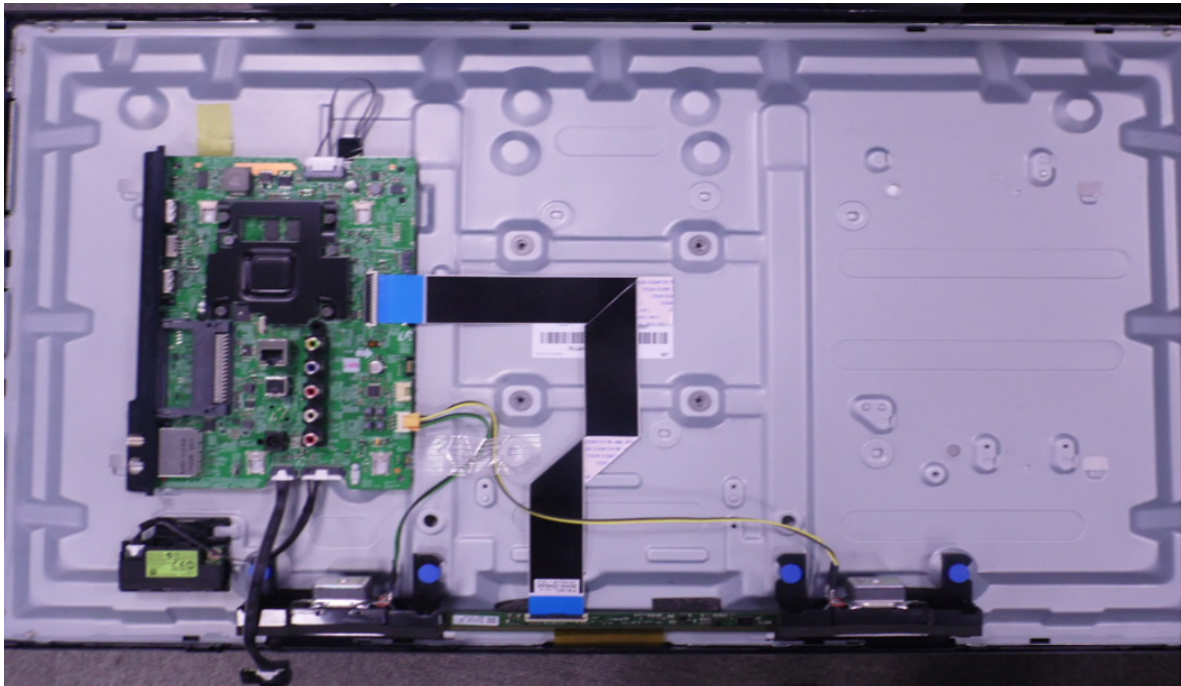
5. Wiring Diagram

5-1. Wiring Diagram

- N4300



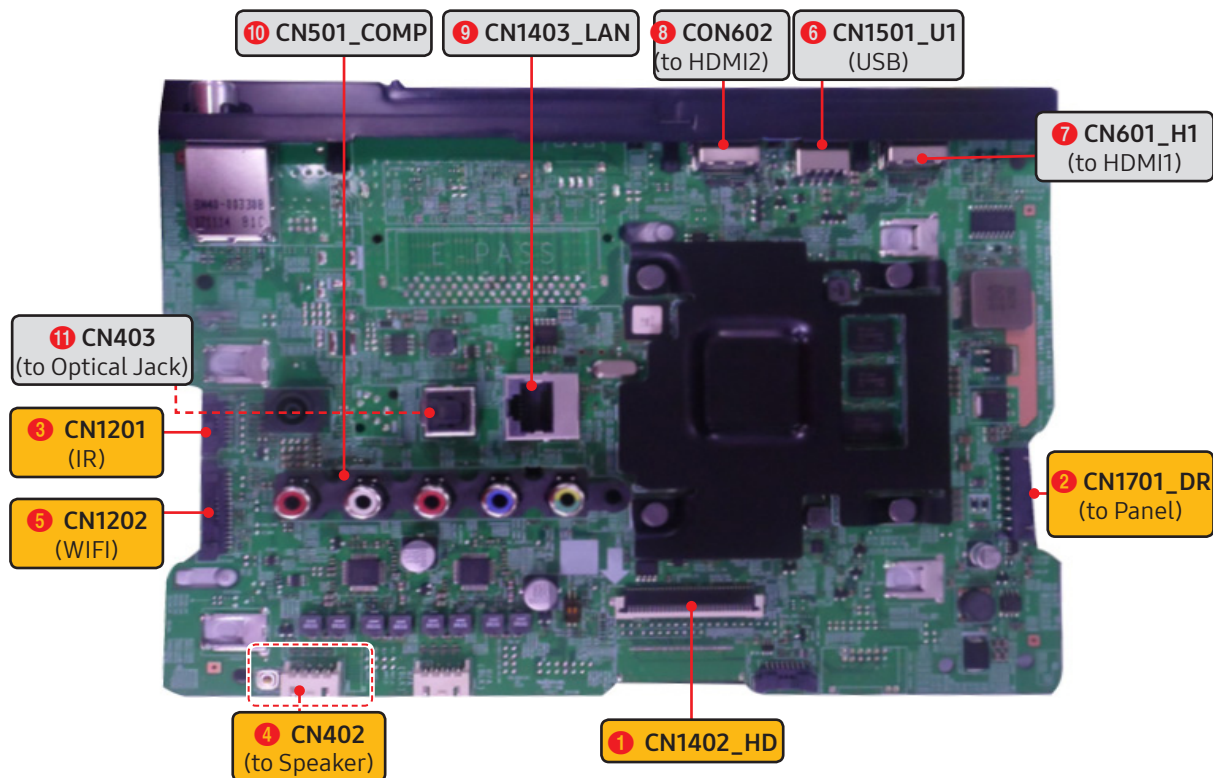
- N4300



5-2. Connector

5-2-1. Main Board

- N4300

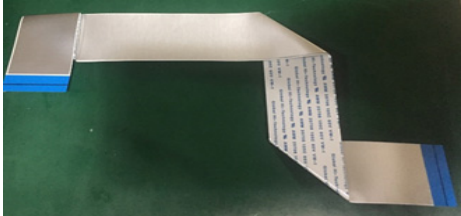
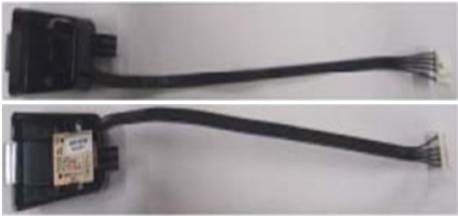


■ Main Board Pin Map

1 CN1402_HD				2 CN1701_DR (to Panel)			
1	PANEL_13V_PW	16	TXCLK+	1	N/C	5	N/C
2	PANEL_13V_PW	17	TXCLK-	2	LED-	6	N/C
3	PANEL_13V_PW	18	GND	3	N/C	7	LED+
4	PANEL_13V_PW	19	TX2+	4	N/C	8	N/C
5	PANEL_13V_PW	20	TX2-	3 CN1201 (IR)			
6	GND	21	GND	1	IR	5	MSDA_I2C
7	NC	22	TX1+	2	GND	6	KEY_INPUT1
8	NC	23	TX1-	3	A3.3V_PW	7	KEY_INPUT2
9	NC	24	GND	4	MSCL_I2C	8	LED_STB_OUT_BS12
10	NC	25	TX0+	4 CN402 (to Speaker)			
11	NC	26	TX0-	1	R+	3	L+
12	GND	27	NC	2	R-	4	L-
13	TX3+	28	NC				
14	TX3+	29	NC				
15	GND	30	NC				

5 CN1202 (WIFI)				9 CN1403_LAN			
1	BT_RESET	9	WIFI_PHY_ON	1	LAN_TXD+_LAN	5	LAN_GND
2	BT_POWER_DET	10	GND	2	LAN_GND	6	LAN_RXD-_LAN
3	BT_WAKE	11	WIFI+_USB_WIFI	3	LAN_TXD-_LAN	7	NC
4	GND	12	WIFI-_USB_WIFI	4	LAN_RXD+_LAN	8	LAN_GND
5	BT-_USB_BT	13	GND	10 CN501_COMP			
6	BT+_USB_BT	14	A5V_PW	1	Y(CVBS)	4	L
7	GND	15	WIFI_WOL	2	COMP_PB	5	R
8	GND	16	WIFI_NRESET	3	COMP_PR		
6 CN1501_U1 (USB)				11 CN403 (to Optical Jack)			
1	A5V_USB1_PW	3	USB1_DP+_USB	1	SPDIF_OUT	3	GND
2	USB1_DM-_USB	4	GND	2	B5V_DC_PW		
7 CN601_H1 (to HDMI1)							
1	HDMI1_RX2+_HDMI	11	GND				
2	GND	12	HDMI1_RX_CLK-_HDMI				
3	HDMI1_RX2-_HDMI	13	CEC				
4	HDMI1_RX1+_HDMI	14	NC				
5	GND	15	HDMI1_SCL_DDC				
6	HDMI1_RX1-_HDMI	16	HDMI1_SDA_DDC				
7	HDMI1_RX0+_HDMI	17	HDMI1_CABLE_DET				
8	GND	18	HDMI1_5V_PW				
9	HDMI1_RX0-_HDMI	19	HDMI1_HOT_PLUG				
10	HDMI1_RX_CLK+_HDMI						
8 CN602 (to HDMI2)							
1	HDMI2_RX2+_HDMI	11	GND				
2	GND	12	HDMI2_RX_CLK-_HDMI				
3	HDMI2_RX2-_HDMI	13	CEC				
4	HDMI2_RX1+_HDMI	14	ARC_SINGLE				
5	GND	15	HDMI2_SCL_DDC				
6	HDMI2_RX1-_HDMI	16	HDMI2_SDA_DDC				
7	HDMI2_RX0+_HDMI	17	HDMI2_CABLE_DET				
8	GND	18	HDMI2_5V_PW				
9	HDMI2_RX0-_HDMI	19	HDMI2_HOT_PLUG				
10	HDMI2_RX_CLK+_HDMI						

5-3. Cables

USE		LVDS CALBE	FUNCTION
		FFC CABLE	ASSY BOARD P-FUNCTION ONE KEY
Code	32"	BN96-35954G	BN96-39802J
Photo			



NOTE

The code number of cable can be changed, see "Exploded Views and Parts List".