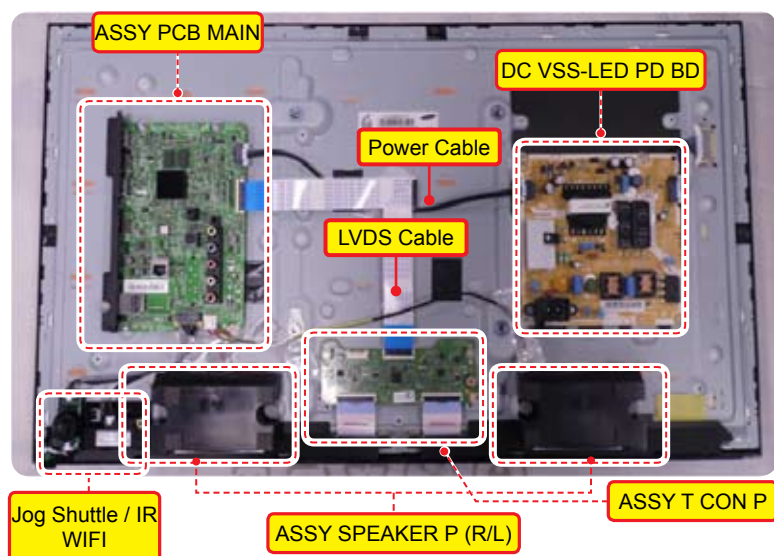


4. Troubleshooting

4-1. Troubleshooting

■ Previous Check

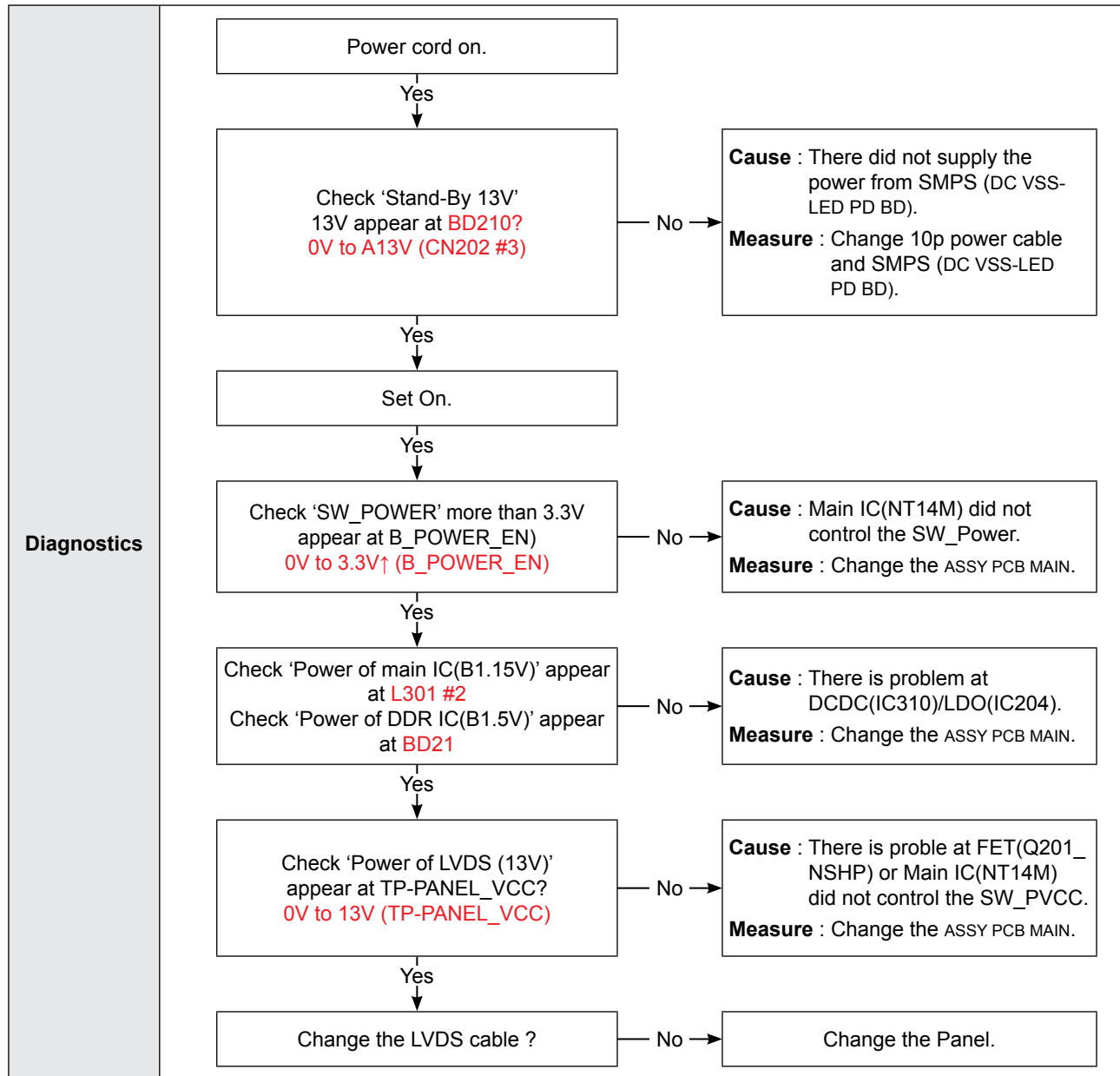
1. Check the various cable connections first.
 - Check to see if there is a burnt or damaged cable.
 - Check to see if there is a disconnected or loose cable connection.
 - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the ASSY PCB MAIN Board.



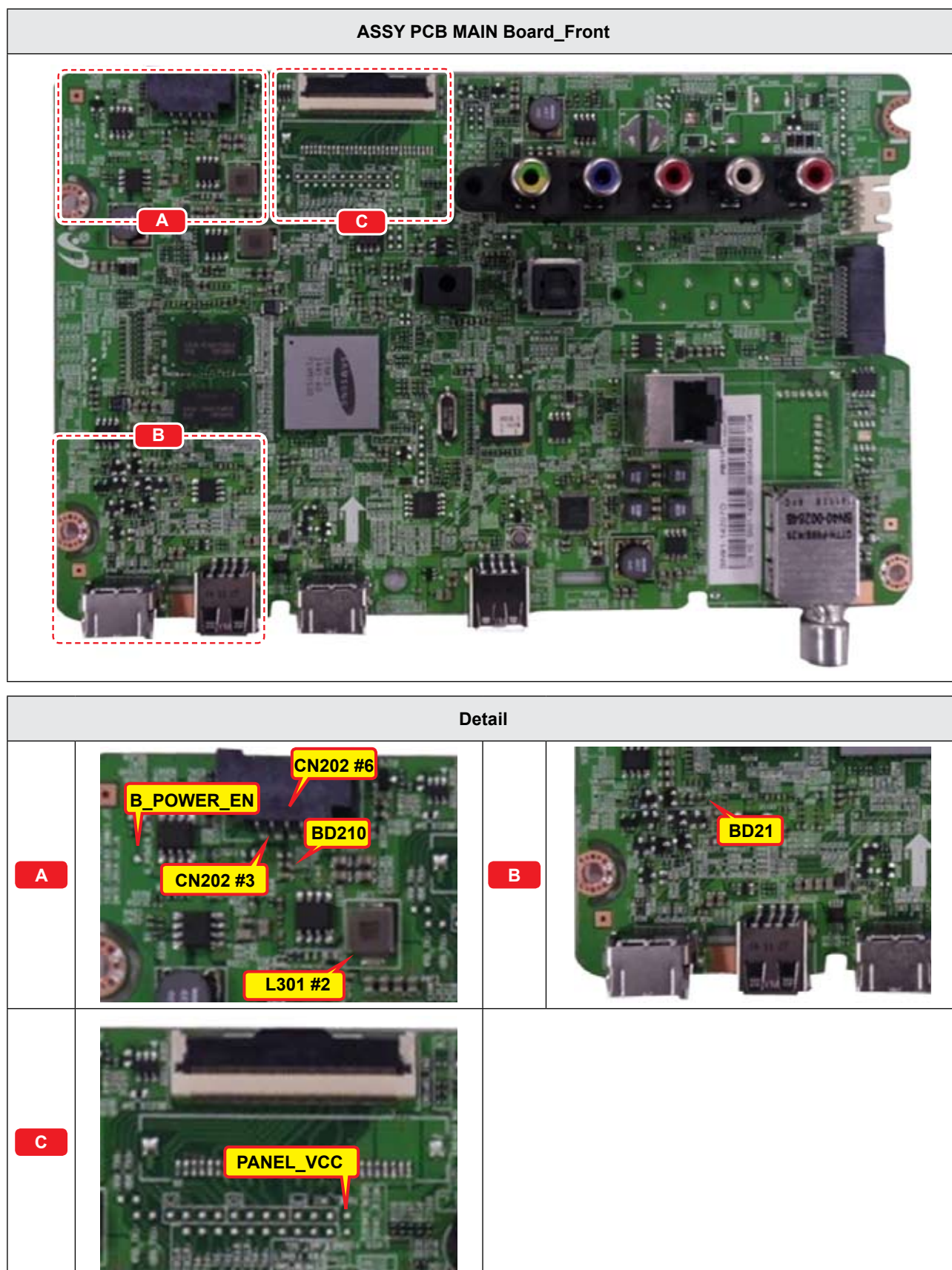
ASSY PCB MAIN Board Assy (CN202)			
9	A13V	10	UNDER_DRIVER
7	A13V	8	PWM_DIM
5	A13V	6	SW_POWER_TO _SMPS
3	A13V	4	GND
1	GND	2	GND

3. Check the power in & output between SMPS (DC VSS-LED PD BD) & ASSY PCB MAIN, ASSY PCB MAIN & Panel, IP & Panel

4-2. How to Check Fault Symptom



■ Location of Parts



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**".

■ UN**J5300AGXZD

Inches		40"	48"
PANEL	Vendor	SDC	SDC
	Code	BN95-02022A	BN95-02024A
	Spec.	CY-GJ040BGLV1V	CY-GJ048BGLV1V
SMPS BOARD	Vendor	SEM	SEM
	Code	BN44-00703G	BN44-00703G
	Spec.	L48S1_FSM	L48S1_FSM
MAIN BOARD	Chassis Ass'y	BN91-14207S	BN91-14207T
	PBA Ass'y	BN94-08208S	BN94-08208T
Byte	Item		
0	Factory Reset	-	
1	Type	40A6AF0VJ	48B6AF0VJ
2	Local set	BRA_DTV	
3	SW Model	UJ5300	
4	BOM Model	5300	
5	Tuner	ISDB-T	
6	Ch table	NONE	

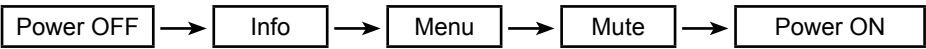
■ UN**J5300AGXZD

Inches		50"	55"
PANEL	Vendor	SEC	AUO
	Code	BN95-02026A	BN07-01413A
	Spec.	CY-GJ050BGNV1V	GJ055BGA-B1
SMPS BOARD	Vendor	HANSOE	HANSOE
	Code	BN44-00704E	BN44-00704E
	Spec.	L55S1_FHS	L55S1_FHS
MAIN BOARD	Chassis Ass'y	BN91-14207X	BN91-14207U
	PBA Ass'y	BN94-08208X	BN94-08208U
Byte	Item		
0	Factory Reset	-	
1	Type	50D6AF0VJ	55R6AF0VJ
2	Local set	BRA_DTV	
3	SW Model	UJ5300	
4	BOM Model	5300	
5	Tuner	ISDB-T	
6	Ch table	NONE	

4-3-2. Entering Factory Mode

o 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.

Option	T-N14MJUABC-xxxx.x T-N14MJDEUS-xxxx BT Version: **** E-Manual : NMISDBH-xxxx EDID SUCCESS CALIB : AV/COMP/PC/HDMI/ Option : 32A6AF2V,EA_INDIA,5300,NONE
Control	
Debug	
SVC	
ADC/WB	
Advanced	RFS:"NT14M xxxx" K/1 20xx-xx-xx KERNEL:xxx.xxxx,/Onboot: xxxx DTP-DTVTD-xxxx TCON Version:---- Model: UA32J5300 Wired MAC ---- Wireless MAC ---- WIFI: ATH6KL(xxxx_xxxx) CO Nf/ W/ M/ D/ H2 PO AO/ S/ N/ SC/ Factory Data Ver:xxx / EERC Version: xxx SmartControl: **** DTP-BP-HAL-xxxx DTP-BP-MW-xxxx DTP-BP-APP-xxxx-xx-Hijack POP-PNG-xx-xxxx Date of purchase:-/-----

4-3-3. Factory Data

■ Option

Factory Menu Name	Data	Range
Factory Reset	-	
Type	32A6AF0VJ	32A6AF0VJ/32A6AH0SJ/40A6AF0VJ 48B6AF0VJ/55R6AF0VJ
Local Set	Local Set	Select Local
SW Model	UJ5300	UJ4300/UJ5300
BOM Model	5300	4300/5300
TUNER	S-TC	Not Detected/S_TC/S-T2C/S_TCS2/S_T2CS2
Ch Table	NONE	
MRT Option		
Front Color	U-S-C-5K	
Lvds Format	JEIDA	
Language_Arabic	WEST ASIA	EU/AUSTRALIA
Region	-	
PnP Language	ENG	
WIFI REGION	AB	A~Z/AA/AB
OTN Support	OFF	ON/OFF
OTA Support	OFF	ON/OFF
MediaPlay DLNA	...	
TTX	ON	ON/OFF
China HD	OFF	ON/OFF
NT Conversion	OFF	ON/OFF
Num of DTV DECODER	0	0~2
Num of AV	1	0~2
Num of COMP	1	0~2
Num of HDMI	2	0~4
Num of SCART	0	0~2
Num of USB Port	2	0~4
Num of USB3.0	0	0~3
Num of RVU	0	0~1
Num Of Display	2	1~2
Num of IPTV	0	0~1
Num of RUI	0	0~1
Num of PVR RECORD	0	0~2
TOOLS Support	1848	
LNA Support	OFF	0~1

4. Troubleshooting

Factory Menu Name	Data	Range
24Px4 Support	OFF	ON/OFF
BD Wise Support	OFF	ON/OFF
Data Service Support	OFF	ON/OFF
JAVA Data Service Support	OFF	
PVR Support	OFF	ON/OFF
CI Support	OFF	ON/OFF
LEDMotionPlus Support	ON	ON/OFF
Natural Mode Support	ON	ON/OFF
Relax Mode Support	OFF	ON/OFF
HDMI/DVI SEL	2	0~4
Select LCD/PDP	LCD	LCD/PDP
Wall Mount	OFF	ON/OFF
HV Flip	HV Flip	OFF/HV Flip/V Flip/H Flip
FRC HV Flip	0	0~1
Light Effect	OFF	ON/OFF
e-POP Default	ON	ON/OFF
CAMERA Support	OFF	ON/OFF
NETWORK Support	Int-wifi	Not Support/Cable/Ext-Wifi/Int-Wifi/ExtOnly-Wifi
EcoSensor Support	ON	ON/OFF
3D Support	OFF	ON/OFF
BT Support	OFF	ON/OFF
BT ADDRESS	Not Support	Not Support
HP LINE	LineOut	Headphone/LineOut/NONE
Smart Control Support	OFF	ON/OFF
Motion Recog	OFF	ON/OFF
Voice Recog	OFF	ON/OFF
Virtual Remocon Color	1	0~2
Local Dimming Panel	OFF	ON/OFF
Wifi Vendor	QCA	NONE/MTK/QCA/BRCM
Capture Recording Support	OFF	ON/OFF
African Cinema Mode Support	OFF	ON/OFF
Indian Cinema Mode Support	ON	ON/OFF
Cricke Score Game Support	ON	ON/OFF
Engineer option		
Type Of PANEL KEY	None	Horizontal/Vertical/PDPVertical/PDPHorizon/ONE KEY/None
5 Way Function Key	R_BACK	L_BOTTOM/R_BOTTOM/L_BACK/R_BACK
Contents Bar	OFF	ON/OFF

Factory Menu Name	Data	Range
Cable Modulation	...	
Standby led on/off	OFF	ON/OFF
Recognition Support	OFF	ON/OFF
IF AGC	0	0~10
D AGC	0	0~10
PH BW	0	0~10
FQ BW	0	0~10
PH RATE	0	0~10
PD EN	0	0~10
PEQ Inx	229	
WF Scale		
WF Type	0	0~7
Num of Network Stream	1	0~1
DP V Size	0	0~1
Backend Device		
BT_AUDIO_ON_OFF	OFF	ON/OFF
Config_AV_PATH		
V_HDMI IDENT TYPE	1234	
V_HDMI PATH TYPE	CABD	
V_EDID TYPE	LCD_FHD	
V_ATV	CVBS_PORT_2	
V_AV1	AV_COMP_G1	
V_AV2	AV_COMP_G2	
V_COMP1	ADC_PORT_1	
V_COMP2	None	
V_PC	ADC_PORT_0	
V_SCART1_CVBS	CVBS_PORT_3	
V_SCART1_RGB	ADC_PORT_2	
V_SCART2_CVBS	None	
V_SCART2_RGB	None	
A_ATV	SIF	
A_DTV	DECODER	
A_AV1	AUIN0	
A_AV2	AUIN1	
A_COMP1	AUIN0	
A_COMP2	None	
A_PC	AUIN0	
A_SCART1	AUIN1	

4. Troubleshooting

Factory Menu Name	Data	Range
A_SCART2	None	
A_DVI	AUIN0	
A_HDMI	SPDIF	
A_Media	DECODER	
USING_PSI_UPDATE	...	
ECO Standby	OFF	
Fast Logo Delay	0	0~20
Num Of PANEL KEY	6	0~20
Panel Detail	0	
Panel Init Time	250	
Tcon Init Time	460	
WRITE MAC Address		

■ Control

Factory Menu Name	Data	Range
EDID		
EDID ON/OFF	ON	ON/OFF
EDID WRITE ALL	Success	
EDID WRITE PC	...	
EDID WRITE HDMI	Success	
EDID WRITE HDMI1	...	
EDID WRITE HDMI2	...	
EDID WRITE HDMI3	...	
EDID WRITE HDMI4	...	
EDID Ver	HDMI 1.2	
EDID Port	NONE	
EDID WRITE DVI	...	
Sub Option		
RS-232 Jack	UART	Debug/UART
Serial Log On/Off	OFF	ON/OFF
Watchdog	ON	ON/OFF
FRC Monitoring	OFF	
Checksum	0x0000	
Fast Boot in Production	OFF	ON/OFF
UART ENABLE	OFF	ON/OFF
Eeprom Reset		
EER Reset	0	

Factory Menu Name	Data	Range
NVR All Clear	OFF	ON/OFF
ECO IC TYPE	MC8121	NONE/CT802FN/NLS1106/MC8121/MC8121_REV
Info Link Server Type	operating	operating/development/developing
Info Link Country	None	
TTX Group	UserOSD	WestEurope/EastEurope/Russian/Greek/Turkey/Arabic/Farsian/Arab/Hbrw/UserOSD
Visual Test	...	
MediaPlay DB	...	
OPTION_SWU	operating	operating/development
OTN Server Type	OFF	ON/OFF
OTN Test Server		
SWU Reset	OFF	ON/OFF
SWU Duration	OFF	ON/OFF
SWU Fail Test		
SWU_Diag_Code		
OPTION_NUM		
Num of ATV	1	
Num of SVIDEO	0	
Num of PC	0	
Num of DVI	0	
Num of OPTICAL Link	1	
Num of MEDIA	1	
Num of Tuner	1	
Num of PVR RECORD	0	
RF Remocon Support	OFF	ON/OFF
CDD mode	...	
DPMS Support	OFF	ON/OFF
Num of IPTV CIP	0	0~1
Num of CI	0	0~1
Num of HYBRID TV	0	0~1
T-CON Device		
BOARD CONTROL	OFF	ON/OFF
RM		
Server Type	Operating	operating/development
RTS Mode	OFF	ON/OFF
PSA		
FKP Download1	0	
FKP Download2	0	

4. Troubleshooting

Factory Menu Name	Data	Range
LMK threshold	4	
Low threshold	10	
High threshold	15	
CSB	ON	ON/OFF
CLB	ON	ON/OFF
EEPG Enable	0	0~1
Last Screen	OFF	ON/OFF
App resume	OFF	ON/OFF
BP PMS Reset	1	0~1
FAnet Thread	5	0~5
ACM_MC	OFF	ON/OFF
Support Mini Browser	ON	ON/OFF
Hotkey List	Basic_Smart	
UNIQUE TRIPLET	ON	ON/OFF
MBR Flag	1	0~1
Support NonSmart	OFF	ON/OFF
PDP Option		
Pixel Shift Test	OFF	ON/OFF
Logic SW	0	
Panel Temperature	0	
LOGIC Waveform Day	0	
Logic Check Sum	0	
MRT	0	
SAPC Timer		
APC Speed		
HOTEL Option		
Hospitality Mode	OFF	ON/OFF
Power On		
Mychannel		
Menu OSD		
Operation		
Music Mode		
External Source		
Eco Solution		
Cloning		
Shop Option		
Shop Mode	OFF	ON/OFF
Exhibition Mode	OFF	ON/OFF

Factory Menu Name	Data	Range
Asia Option		
Unbalance	OFF	ON/OFF
AF Level adjust	3	0~7
TX Power Level	0	0~3
Mono Last Memory	OFF	ON/OFF
H Shaking	OFF	ON/OFF
SOUND		
Carrier_Mute	OFF	ON/OFF
High Devi	ON	ON/OFF
Speaker Delay Normal	10	
SPDIF PCM Gain	-9dB	
FM M Prescale	48	
FM Prescale	0x19h	
AM Prescale	0x1Ch	
NICAM Prescale	0x1Dh	
BTSC Mono Prescale	15	
BTSC stereo Prescale	29	
BTSC SAP Prescale	43	
A2 Ident High Thld	15	
A2 Ident Low Thld	4	
Pilot Level High Thld	0x13h	
Pilot Level Low Thld	0x09h	
Carrier2 Amp High Thld	16	
Carrier2 Amp Low Thld	14	
Carrier2 SNR High THR	32	
Carrier2 SNR Low THR	15	
Sig Error On	35	
Sig Error Off	41	
Amp Model	TAS5745	
Amp Volume	0xc9h	
Amp Scale	0x35h	
Amp Check Sum	0x0035CB72	
Woofer Type	0	0~7
Woofer Volume	0xcbh	
Woofer Scale	0x8ah	
Woofer Check Sum	NONE	
Woofer Local Check Sum	0	
Speaker EQ	ON	ON/OFF

4. Troubleshooting

Factory Menu Name	Data	Range
PEQ Test	Ready	Ready/Set1~Set5
Lacal Speaker EQ	0	
Local EQ Checksum	0	
SRS Tuning Parm	5	
Subwoofer Support	0	
India Sound	ON	ON/OFF
AudioDock BT delay	50	
Wall Filter Type	0	
Bottom Checksum	0	
Bottom Local CHeckSum	0	
Lipsync Inx	5	
Lipsync checkSum	OK:0x5560	
Lipsync USB Test	Ready	
Lipsync BT Checksum	OK:0x6341	

■ Debug

Factory Menu Name	Data	Range
Spread Spectrum		
LVDS Spread	ON	
LVDS Period	200K	
LVDS Amplitude	1.5	
LVDS Strength	4	
DDR Spread	ON	
DDR Period	20K	
DDR Amplitude	0.3	
HD SSC ON/Off	OFF	
HD SSC Value	1	
LVDS SSC ON/OFF	OFF	
LVDS Value	0	
DDR SSC ON/OFF	OFF	
DDR SSC Value	1	
FRC Vx1 SSC ON/OFF	OFF	
FRC LVDS SSC ON/OFF	OFF	
FRC LVDS SSC MRR	10	
FRC LVDS SSC MFR	1	
FRC Vx1 SSC Period	0	
FRC Vx1 SSC Modulation	0	

Factory Menu Name	Data	Range
FRC DDR SSC ON/OFF	ON	
FRC DDR SSC MRR	15	
FRC DDR SSC MFR	1	
FRC DDR SSC Period	0	
FRC DDR SSC Modulation	0	
DDR Margin		
A CTRL_OFFSET_0_3	0x0	
A CTRL_OFFSET_D	0x0	
B CTRL_OFFSET_0_3	0x0	
B CTRL_OFFSET_D	0x0	
MICOM POWER OFF	OFF	
RF Mute Time	6ms	
CI +1.3	OFF	
FRC		
Tuner Margin	10	
MPEG Margin	100	
H.264 Margin	100	
CAM Wait Time		
TS Clock delay	0	
TCON_TEMP_READ	0	
TEMP LAST	60	
DCC VERSION	0x0000	
DCC CHK SEL	0	
DCC CHECK LOCAL	0x00	
DCC CHECK TOTAL	0x00	
MultiACC Checksum	0	
IIC Bus Stop	OFF	
Tuner Status		
Cert Option	SHOW	
RM_BIST_DTV	0	
RM_BIST_ATV	0	
Voice Debug	OFF	

■ SVC

Factory Menu Name	Data	Range
Self Test		
Loop Back		

4. Troubleshooting

Factory Menu Name	Data	Range
CPU		
DDR		
FLASH		
EEPROM		
HDMI Switch IC		
USB HUB IC		
WIFI		
LVDS		
T-CON/FRC		
PCB Test		
MOIP		
App Self Test		
Device Self Test		
Voltage		
EcoSensor		
BT		
EXT Sound Inspection		
Woofer Sound Inspection	NONE	
ATV CH Inspection	Failure	
DTV CH Inspection		
Satellite CH Inspection		
UHD OSD TEST		
Aging Line Test		
Tweeter Sound Inspection	NONE	
Info		
SVC Info	0	
LOG(View Log)		
ER Count		
Panel Display Time	1Hr	
Factory Entry Number	3	
Factory Execution History		
Factory Reset History		
Upgrade		
T-CON Usb Download		
T-CON CheckSum	N/A	
Logic Usb D/L	...	
SUBMICOM UPGRADE	Ready	
BT UPGRADE		

Factory Menu Name	Data	Range
BT FREEPAIRING	on	
Function Upgrade		
FRC3D FW UPGRADE		
FRC3D LD UPGRADE		
Camera Upgrade		
Mic Upgrade		
CPLD USB Download		
JP MICOM UPGRADE		
DP MICOM UPGRADE		
Jump UPGRADE		
IR Blaster Upgrade		
IR Blaster delay time	50	
CPLD Download		
LDC PROFILE UPGRADE		
Pic Data USB Update	0	
Audio Data USB Update	0	
Eco Data USB Upate	VER:0x0028	
SC ADK Upgrade		
SC MBR Upgrade		
Reset		
App Reset	0	
EEPROM Rst	0	
SPI Flash Reset	Failure	
OPTION_HDMI		
DVI/HDMI SOUND	Auto	
HDMI HOT PLUG	Disable	
HOTPLUG SWITCHING	boot	
HOTPLUG DURATION	1200ms	
CLK TERM DURATION	1200ms	
HDMI FLT CNT SIG	100ms	
HDMI FLT CNT LOS	100ms	
UNSTABLE BAN CNT	5000ms	
HDMI ROBIN	ON	
HDMI Callback	OFF	
HDMI CTS Thld	8	
HDMI CTS Cnt1	1	
HDMI EQ	Auto	
HDMI Write Type	Combine	

4. Troubleshooting

Factory Menu Name	Data	Range
HDMI Switch	NONE	
DVI SET TIME	300ms	
HDMI Sync	DE	
HDMI 3D DET	0	
HOTPLUG OFF HOLD TIME		
HDMI Stable Count	1	
HDCP UPDATE SPI		
SPI VERSION	0	
DVB CI		
TS Clock delay TC	0	
TS Clock delay S	0	
CI Control Buf ON	ON	
TS Clock delay CPU	-1	
Test Pattern		
Pattern Sel	OFF	
Logic Pattern Sel	...	
Logic Level Sel	...	
FRC Pre Test Pattern	0	
FRC Post Test Pattern	0	
SOC TCON Test Pattern	0	
SOC TCON Pattern Level	255	
SOC TCON FRC Pattern	0	
HDMI WB Pattern	OFF	
HDMI Pattern Sel	0	
Parma Pre Test Pattern	0	
Parma Port Test Pattern	0	
FRC OSD PRE PATTERN	0	
FRC OSD POST PATTERN	0	
Other Setting		
Delete S/N	0	
IPERF	stopped	
Expert		
CAL Data Backup	...	
CAL Data Restore		
ATV IF AGC SPEED	0	
App Update	LAST POWER	
SVC Panel	ORIGINAL	
S/N		

Factory Menu Name	Data	Range
Serial number	0	
Writing S/N	0	

■ ADC/WB

Factory Menu Name	Data	Range
ADC		
AV Calibration		
Comp Calibration		
PC Calibration		
HDMI Calibration		
ADC Result		
1st_Y_GH	138	
1st_Y_GL	128	
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	143	
G-Gain	128	
B-Gain	162	
WB-W2_R_Offset	128	
WB_W2_B_Offset	128	
WB_W2_R_Gain	162	
WB_W2_B_Gain	103	
WB-N_R_Offset	128	
WB_W2_N_Offset	128	
WB_W2_N_Gain	158	

4. Troubleshooting

Factory Menu Name	Data	Range
WB_W2_N_Gain	144	
MGA		
MGA On/Off	OFF	
R1_Gain	498	
G1_Gain	482	
B1_Gain	494	
R2_Gain	508	
G2_Gain	492	
B2_Gain	504	
R3_Gain	508	
G3_Gain	494	
B3_Gain	506	
R4_Gain	510	
G4_Gain	496	
B4_Gain	508	
R5_Gain	514	
G5_Gain	502	
B5_Gain	508	
R6_Gain	518	
G6_Gain	508	
B6_Gain	506	
R7_Gain	520	
G7_Gain	512	
B7_Gain	506	
R8_Gain	518	
G8_Gain	512	
B8_Gain	508	
R9_Gain	514	
G9_Gain	512	
B9_Gain	510	
R10_Gain	512	
G10_Gain	512	
B10_Gain	512	

■ Advanced

4-4. White Balance

4-4-1. MGA(Multipoint Grayscale Adjustment)

MGA(Multipoint Grayscale Adjustment)

DEVICES	Type
CA-210	32A6AF0VJ

RGB Measurement		
Levels	Code	Check
10 IRE	0x01	O
20 IRE	0x02	O
30 IRE	0x03	X
40 IRE	0x04	O
50 IRE	0x05	X
60 IRE	0x06	X
70 IRE	0x07	O
80 IRE	0x08	X
90 IRE	0x09	X
100 IRE	0x0A	O

Panel Inspection Spec.				
Levels	Check	x(±)	y(±)	Gamma(±)
10 IRE	O	0.020	0.020	0.40
20 IRE	O	0.020	0.020	0.40
30 IRE	O	0.020	0.020	0.40
40 IRE	O	0.020	0.020	0.40
50 IRE	O	0.020	0.020	0.40
60 IRE	O	0.020	0.020	NA
70 IRE	O	0.020	0.020	NA
80 IRE	O	0.020	0.020	NA
90 IRE	O	0.020	0.020	NA
100 IRE	O	NA	NA	NA

Gray Check			Adjust Spec(xyL)			Adjust Target offset(xyL)		
Levels	Code	Check	x(±)	y(±)	L(±)	x(±)	y(±)	L(±)
10 IRE	0x01	X	0.007	0.007	0.11	0.000	0.000	0.000
20 IRE	0x02	O	0.007	0.007	0.08	0.000	0.000	0.000
30 IRE	0x03	X	0.007	0.007	0.06	0.000	0.000	0.000
40 IRE	0x04	O	0.005	0.005	0.05	0.000	0.000	0.000
50 IRE	0x05	X	0.005	0.005	0.04	0.000	0.000	0.000
60 IRE	0x06	X	0.005	0.005	0.03	0.000	0.000	0.000
70 IRE	0x07	O	0.004	0.004	0.02	0.000	0.000	0.000
80 IRE	0x08	X	0.004	0.004	0.01	0.000	0.000	0.000
90 IRE	0x09	X	0.004	0.004	0.01	0.000	0.000	0.000
100 IRE	0x0A	X	NA	NA	NA	NA	NA	NA

4. Troubleshooting

Target Gamma		2.30	
Black	x	y	Contrast
	0.231	0.208	300000
Target xy	Option	x	y
	Auto	0.282	0.299

Color Tone Target			Spec.	
High	x	y	x(±)	y(±)
COOL	0.280	0.303	0.004	0.004
NORMAL	0.279	0.309		
WARM2	0.321	0.353		
Low	x	y	x(±)	y(±)
COOL	NA	NA	NA	NA
NORMAL	NA	NA		
WARM2	NA	NA		

Panel Spec.		±	
Gamma	2.20	0.35	20~128
x	0.281	0.030	255
y	0.288	0.030	
ACC x	255 white	0.015	26~255
ACC y	x,y value	0.015	

10IRE Gamma target		2.30
RetryCount		6

DEVICES	Type
CA-310	32A6AF0VJ

RGB Measurement		
Levels	Code	Check
10 IRE	0x01	O
20 IRE	0x02	O
30 IRE	0x03	X
40 IRE	0x04	O
50 IRE	0x05	X
60 IRE	0x06	X
70 IRE	0x07	O
80 IRE	0x08	X
90 IRE	0x09	X
100 IRE	0x0A	O

Panel Inspection Spec.				
Levels	Check	x(±)	y(±)	Gamma(±)
10 IRE	O	0.020	0.020	0.40
20 IRE	O	0.020	0.020	0.40
30 IRE	O	0.020	0.020	0.40
40 IRE	O	0.020	0.020	0.40
50 IRE	O	0.020	0.020	0.40
60 IRE	O	0.020	0.020	NA
70 IRE	O	0.020	0.020	NA
80 IRE	O	0.020	0.020	NA
90 IRE	O	0.020	0.020	NA
100 IRE	O	NA	NA	NA

Gray Check			Adjust Spec(xyL)			Adjust Target offset(xyL)		
Levels	Code	Check	x(±)	y(±)	L(±)	x(±)	y(±)	L(±)
10 IRE	0x01	X	0.007	0.007	0.11	0.000	0.000	0.000
20 IRE	0x02	O	0.007	0.007	0.08	0.000	0.000	0.000
30 IRE	0x03	X	0.007	0.007	0.06	0.000	0.000	0.000
40 IRE	0x04	O	0.005	0.005	0.05	0.000	0.000	0.000
50 IRE	0x05	X	0.005	0.005	0.04	0.000	0.000	0.000
60 IRE	0x06	X	0.005	0.005	0.03	0.000	0.000	0.000
70 IRE	0x07	O	0.004	0.004	0.02	0.000	0.000	0.000
80 IRE	0x08	X	0.004	0.004	0.01	0.000	0.000	0.000
90 IRE	0x09	X	0.004	0.004	0.01	0.000	0.000	0.000
100 IRE	0x0A	X	NA	NA	NA	NA	NA	NA

Target Gamma		2.30	
Black	x	y	Contrast
	0.231	0.208	300000
Target xy	Option	x	y
	Auto	0.282	0.299

Color Tone Target			Spec.	
High	x	y	x(±)	y(±)
COOL	0.280	0.292	0.004	0.004
NORMAL	0.279	0.298		
WARM2	0.321	0.342		
Low	x	y	x(±)	y(±)
COOL	NA	NA	NA	NA
NORMAL	NA	NA		
WARM2	NA	NA		

Panel Spec.		±	
Gamma	2.20	0.35	20~128
x	0.281	0.030	255
y	0.288	0.030	
ACC x	255 white	0.015	26~255
ACC y	x,y value	0.015	

10IRE Gamma target		2.30
RetryCount		6

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

Access the factory mode

Option	T-N14MJUABC-xxxx.x
Control	T-N14MJDEUS-xxxx
Debug	BT Version: ****
SVC	E-Manual : NMISDBH-xxxx
ADC/WB	EDID SUCCESS
Advanced	CALIB : AV/COMP/PC/HDMI/ Option : 32A6AF2V,EA_INDIA,5300,NONE
	RFS:"NT14M xxxx" K/1 20xx-xx-xx
	KERNEL:xxx.xxxx,/Onboot: xxxx
	DTP-DTVTD-xxxx
	TCON Version:----
	Model: UA32J5300
	Wired MAC ----
	Wireless MAC ----
	WIFI: ATH6KL(xxxx_xxxx)
	CO Nf/ W/ M/ D/ H2 PO AO/ S/ N/ SC/
	Factory Data Ver:xxx / EERC Version: xxx
	SmartControl: ****
	DTP-BP-HAL-xxxx
	DTP-BP-MW-xxxx
	DTP-BP-APP-xxxx-xx-Hijack
	POP-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-N14MJUABC" 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.

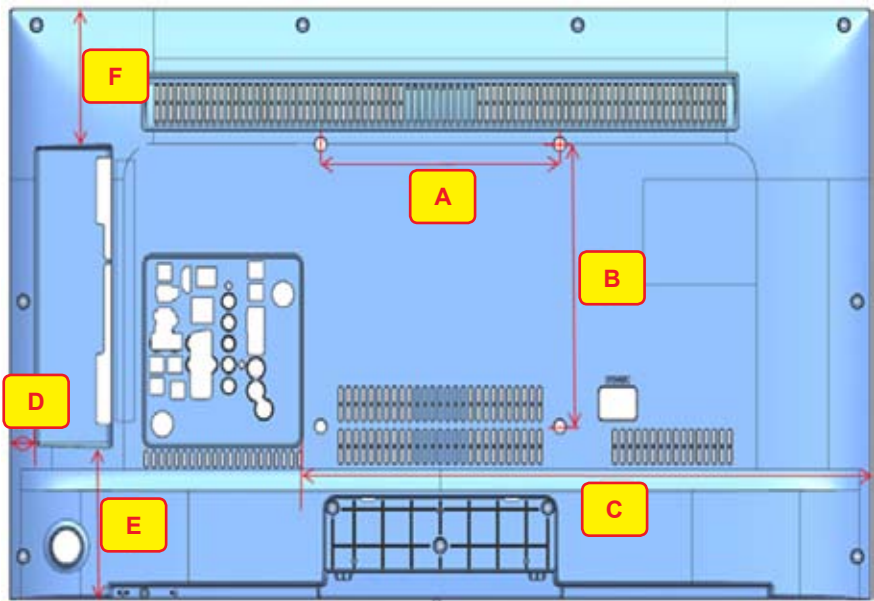


6. Click the "ENTER" key.
- Wait for upgrade complete.
 - Check the Software Version.



4-6. The Dimension of J5300 Models

■ UN**J5300AG



Rear Cover Dimension	J5300			
	40"	48"	50"	55"
A	200	400	400	400
B	200	400	400	400
C	620.9	768.2	823	872.8
D	32	41.5	31.7	92.7
E	194.5	221.7	206.5	235.5
F	115.8	184	222.8	256.7