

HOT TIPS

Power On Problems: (see page 2)

Video Problems: (see page 3.4)

Other:

HDMI Bleed-over

FIRMWARE

8/9/2010

(1010 & 1005.0)

Reason: This firmware will prevent:
'USB Power Overload' message pops up
even USB port is not connected
HDMI 2 looks activated when HDMI 1
port is connected

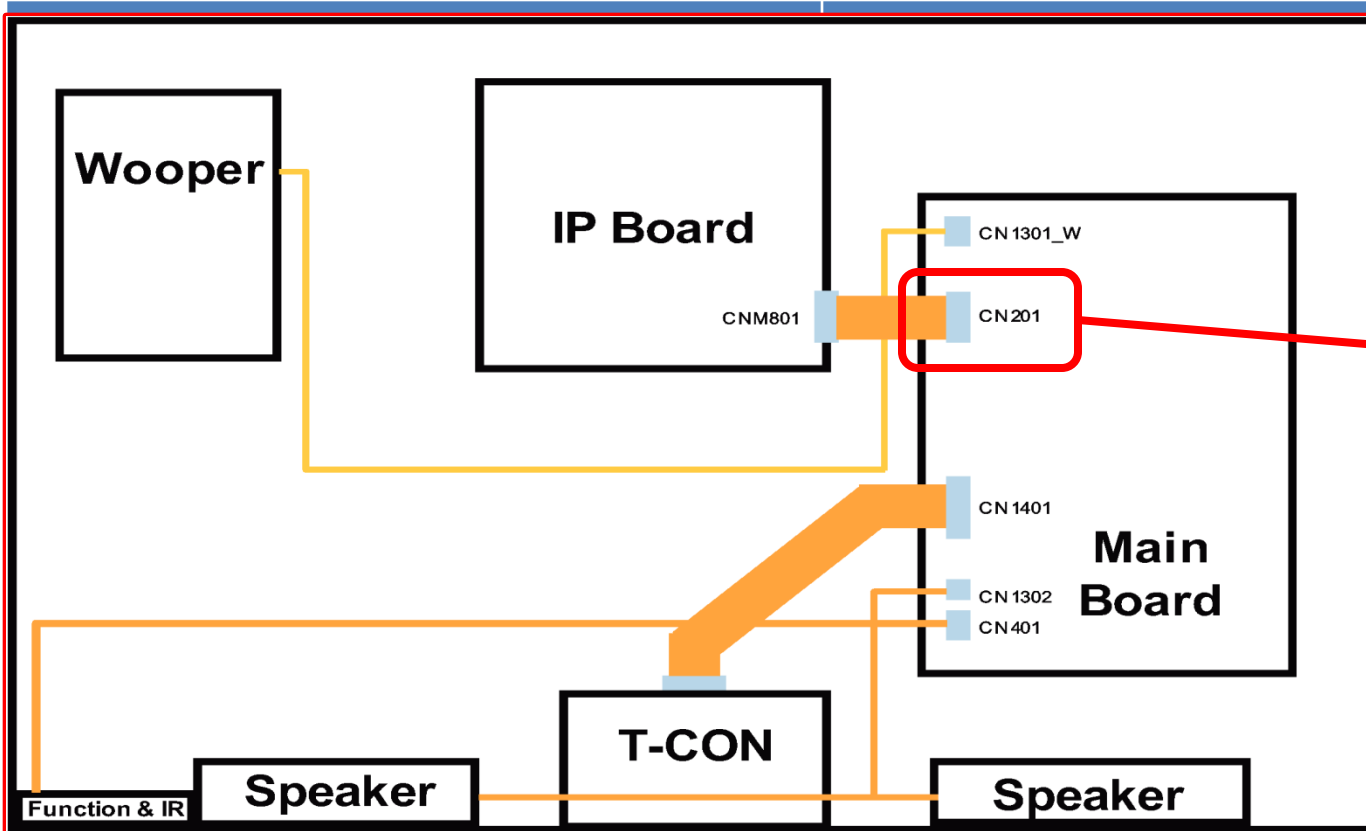
Previous: 1006.1

Prevents :Buffering when connecting
Samsung Camcorder S15 and 16 through
WiFi

SERVICE BULLETINS

Power Board_Circuit Diagram_2010TV

Version	Part No	Short Description
AA09	BN44-00356A	SMPS
SQ03	BN44-00356A	SMPS
SQ01	BN44-00356A	SMPS
CN04	BN44-00356A	SMPS
H306	BN44-00356A	SMPS
H308	BN44-00356A	SMPS
CN02	BN44-00356A	SMPS
HQ05	BN44-00356A	SMPS
AA11	BN44-00356B	Power PCB
SQ03	BN94-03366R	Main PCB
CN04	BN94-03366W	Main PCB
HQ05	BN94-03366Z	Main PCB
H306	BN94-03366Z	Main PCB
H308	BN94-04492E	Main PCB
SQ01	BN94-04492E	Main PCB
CN02	BN94-04492F	Main PCB
AA11	BN94-04684A	Main PCB
AA09	BN94-04684A	Main PCB
ALL	BN96-13047H	Function & IR PCB
CN02	BN07-00854A	Panel
CN04	BN07-00854A	Panel
SQ03	BN07-00860A	Panel
SQ01	BN07-00860A	Panel
AA09	BN07-00934A	Panel
AA11	BN07-00934A	Panel
SQ01	BN81-04355A	T-CON PCB
SQ03	BN81-04355A	T-CON PCB
CN02	BN81-04456A	T-CON PCB
CN04	BN81-04456A	T-CON PCB
H308	BN81-05772A	T-CON PCB
H306	BN81-05772A	T-CON PCB
HQ05	BN81-05772A	T-CON PCB
HQ05	BN95-00413A	Panel
H306	BN95-00413B	Panel
H308	BN95-00413B	Panel
AA11	BN96-13687A	T-CON PCB
AA09	BN96-13687A	T-CON PCB
ALL	BN96-10689A	Stand Guide Neck
ALL	BN96-12763F	Stand Base
ALL	BN96-12893A	Front Cover
ALL	BN96-12915M	Rear Cover
SQ01	BN96-12932A	Base
ALL	BN96-13131D	Stand Guide
ALL	3903-000527	Power Cord
CN02	BN40-00162A	Tuner
AA11	BN40-00162A	Tuner
H308	BN40-00162A	Tuner
AA09	BN40-00162A	Tuner
SQ01	BN40-00162A	Tuner
CN04	BN40-00194A	Tuner
HQ05	BN40-00194A	Tuner
H306	BN40-00194A	Tuner
SQ03	BN40-00194A	Tuner
ALL	BN96-12723M	LVDS Cable



CN201	SIG.	PIN	SIG.
1	B12V	10	GND
2	A5V	11	GND
3	B12V	12	H_OUT
4	A5V	13	B13V
5	B5V	14	PWM Dimming
6	B5V	15	B13V
7	B5V	16	B5V
8	GND	17	B13V
9	GND	18	IP_DET

Power On Sequence:

1. **Standby Voltages:** CN201-2, 4 (5V)
2. **Power On** probable error on CN201-2 or 4 PS_ON)
3. **Low Voltage Supplies On** CN201-5,6,7,13,17
4. **Back Light Supply On** CN201 -16
5. **Back Light Confirmation** CN201-18

To Force Backlight On without Main Board :

1. Remove Power Cord
2. Disconnect CN201
3. Plug In Power Cord
4. Backlight should be on immediately.

TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Customer Picture Test (models available)
- "Display" (If display is OK source is suspected)
- Substitute with known good Source (external DVD or Signal Generator)

2. Using Test Patterns in Service Mode

- ENTER SERVICE MODE -

- Select an active source signal. (HDMI preferred)
Test Pattern may rely on signal source to appear.

Customer Remote

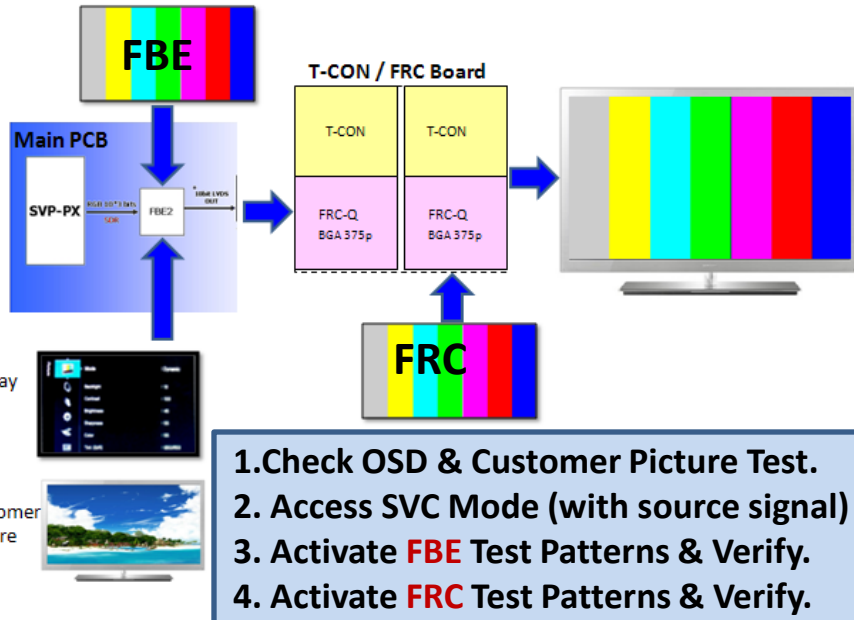
- Power off
- Mute, 182, Power

Service Remote

- Power On
- Info, Factory

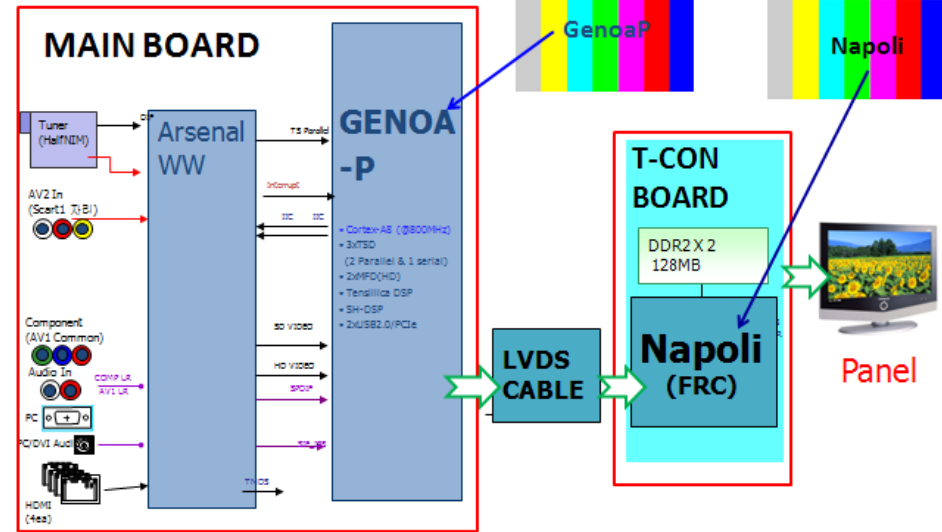
2010 Models

LCD Signal Path for Troubleshooting



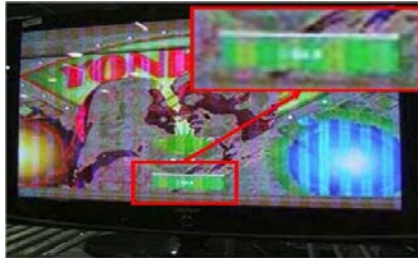
2011 LED 8000 Series

Verify Test Mode Signals



1. Select an active source signal. (HDMI preferred)
Test Pattern may rely on signal source to appear.
2. Access Service Mode
3. Access **SVC**
4. Access **Test Patterns**
5. Access **Genoa-P**
6. Check Test Patterns
7. If OK suspect input Source
8. Access **Napoli**
9. Check Test Patterns
10. If OK and Genoa-P was not good
Suspect Main Board or LVDS Cable

ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors
Defective Main Board, LVDS,
or T-CON

Green lines or a green screen
defective main board , LVDS , or
T-CON.

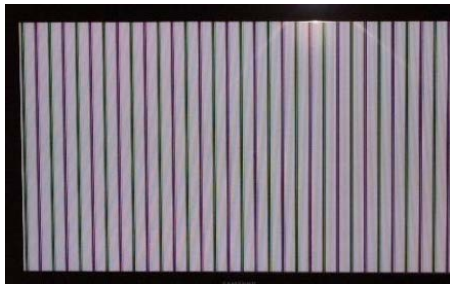


Original Image



Image on Screen

Pixelization can be caused by the main board
but is more commonly a source error



Vertical or Horizontal Lines :Defective
Panel likely but also T-CON, LVDS, or Main
Board. Use Test Patterns in Factory Service
Mode to determine error)

ALIGNMENTS:

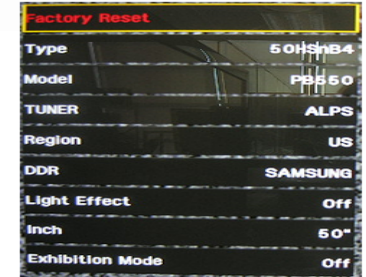
1. Check/Set Option Bytes:

Using the Customer Remote

1. Turn the power off and set to stand-by mode
2. Press the remote buttons in this order: POWER OFF-MUTE-1-B-2-POWER ON to turn the set on.
3. The set turns on and enters service mode. This may take approximately 20 seconds.
4. Press the Power button to exit and store data in memory.
- If you fail to enter service mode, repeat steps 1 and 2 above.
5. Initial SERVICE MODE DISPLAY State

Project	PB5G	PB5G	PB5G
Model	B550	B550	B550
Model Code	PN6B550T2FXZA	PN6B550T2FXZA	PN6B550T2FXZA
No.	ITEMS		
1	Factory Reset	-	-
2	Type	50FSpl4	58FNK1
3	Model	PB550	PB550
4	TUNER	ALPS	ALPS
5	Region	US	US
6	DDR	SAMSUNG	SAMSUNG
7	Light Effect	Off	Off
8	Inch	50"	55"
9	Exhibition Mode	Off	Off

Option Bytes



2. Check/Perform Firmware Upgrade for
all repairs.

3. Perform reset in Service Mode &
Plug and Play if Main board is replaced.

SPECIAL NOTES:

Inform customer of reset of all
Settings if Main Board or Panel is replaced.

Option											
Type	Model	Tuner	Region	DDR	Light Effect	Audio AMP	Ch Table	Country	Front Color	Local Set	Exhibition Mode
46A1UF0E	UC6300	SN761640		-	OFF	-		USA	W-D-Gray		
46A1UF0E	UC6300	SN761640		-	OFF	-		USA	W-D-Gray		
46A1UF0E	UC6300	SN761640		-	OFF	-		USA	W-D-Gray		
46A1UF0E	UC6300	SN761640		-	OFF	-		USA	W-D-Gray		
46A1UF0E	UC6300	SEMCO	-	-	OFF	-	-	USA	W-D-Gray	-	-