

## SERVICE BULLETINS

No current Bulletins for this model

**\*Verify Part Number are Current\***

<u>Version</u>	<u>Parts No</u>	<u>Short Description</u>
ALL	<a href="#">BN44-00339A</a>	Power PCB Function & IR PCB
ALL	<a href="#">BN96-13451B</a>	
ALL	<a href="#">BN96-15659A</a>	Main PCB
ALL	<a href="#">BN07-00828A</a>	Panel
ALL	<a href="#">BN81-04409A</a>	T-CON PCB
ALL	<a href="#">BN96-10689A</a>	Stand Guide Neck
ALL	<a href="#">BN96-12766E</a>	Rear Cover
ALL	<a href="#">BN96-12807A</a>	Front Cover
ALL	<a href="#">BN96-12795C</a>	Stand Guide
ALL	<a href="#">BN96-12762A</a>	Stand Base
ALL	<a href="#">BN40-00195A</a>	Tuner
ALL	<a href="#">BN96-12871B</a>	Speaker
ALL	<a href="#">BN96-13171T</a>	LVDS Cable
ALL	<a href="#">3903-000467</a>	Power Cord
ALL	<a href="#">BN59-01041A</a>	Remote
ALL	<a href="#">BN63-01798B</a>	Cleaning Cloth

## FIRMWARE

10/18/2010

Firmware for SX1 & X4 Model

- . Version : 1016.3 (SX1), 2006.0 (X4)

- . Folder Name: T-TDT5AUSC / T-MSX5AUSC

This firmware will prevent below problems

- . Distorted picture on 70 Hz, 75 Hz
- . Distorted picture on DTV PIP with 1080i mode

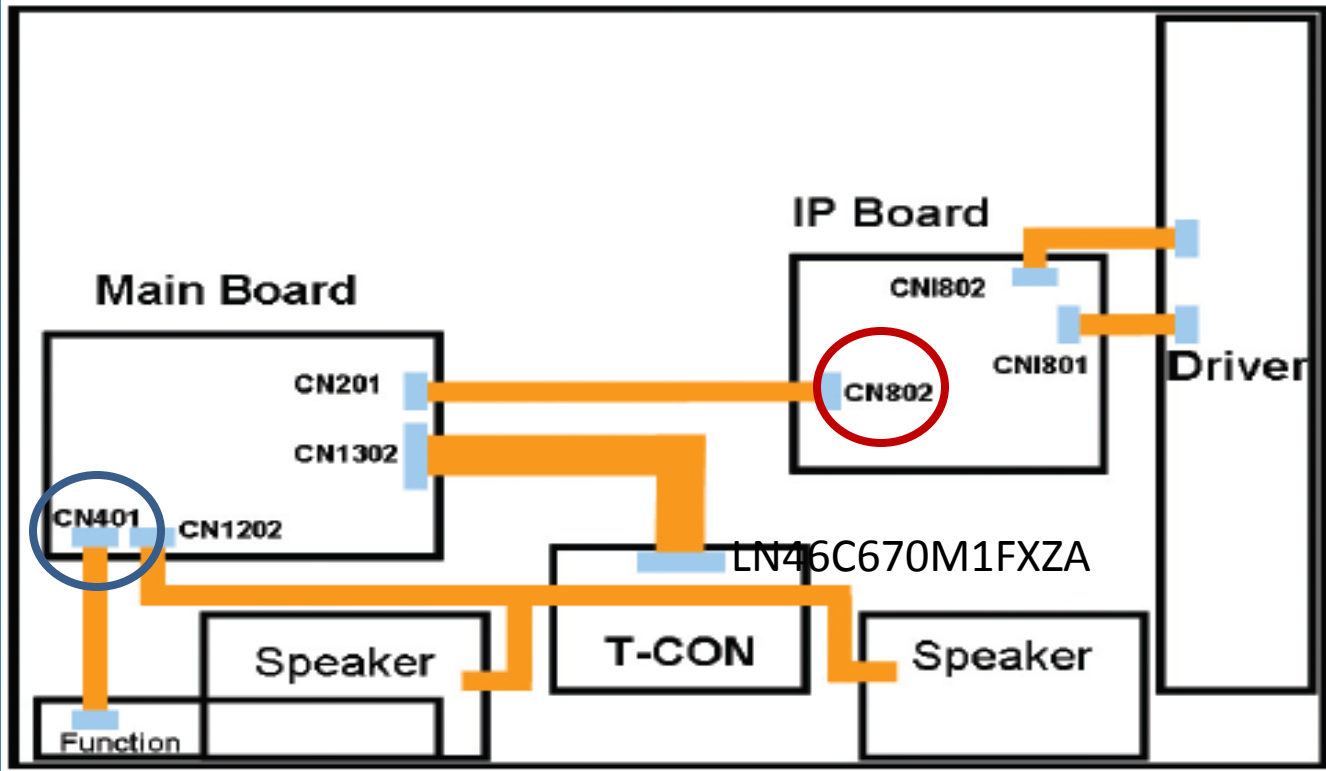
## HOT TIPS

**Power On Problems:** (see page 2)

**Video Problems:** (see pages 3,4)

**TIP:** After replacing Main/Panel picture is upside down.

**Fix:** Test Mode/Mirror Option/Toggle



**CN201**

CN201(to Power board)			
1	B12V_PW	10	GND
2	A5V_PW	11	GND
3	B12V_PW	12	H_OUT
4	A5V_PW	13	B13V_PW
5	B5V_PW	14	PWM_DIMMING_OUT
6	B5V_PW	15	B13V_PW
7	B5V_PW	16	B5V_PW
8	GND	17	B13V_PW
9	GND	18	IP_DET

**Power On Sequence** (approximate Voltages)

1. **Standby Voltages:** CN201-4 (5V)
2. **Power On** CN201-2 (0 – 3V )
3. **Low Voltage Supplies On** CN201-1,3,5,7,13,15,17 (Volts Listed on CN802)
4. **Back Light On** CN201-16 (0-3V, delayed)
5. **Back Light Confirm** CNI802- (FB1 & FB2)
6. **Dimming Signal** CN201-14 (1V–4V approx)

**To Force Backlight On without Main Board :**

1. Remove Power Cord
2. Remove CN802
3. Plug Power Cord In.
4. Backlight should be on immediately.

**CN401(to Function/IR)**

1	IR	6	KEY_INPUT1
2	GND	7	KEY_INPUT2
3	A3.3V_PW	8	LED_STB
4	MSCL_A5V	9	LED_CNTR
5	MSDA_A5V	10	A3.3V_PW

## TROUBLESHOOTING VIDEO PROBLEMS

### 1. Verify Video Operation

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

### 2. Using Test Patterns in Service Mode

- ENTER SERVICE MODE -

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

**Customer Remote**

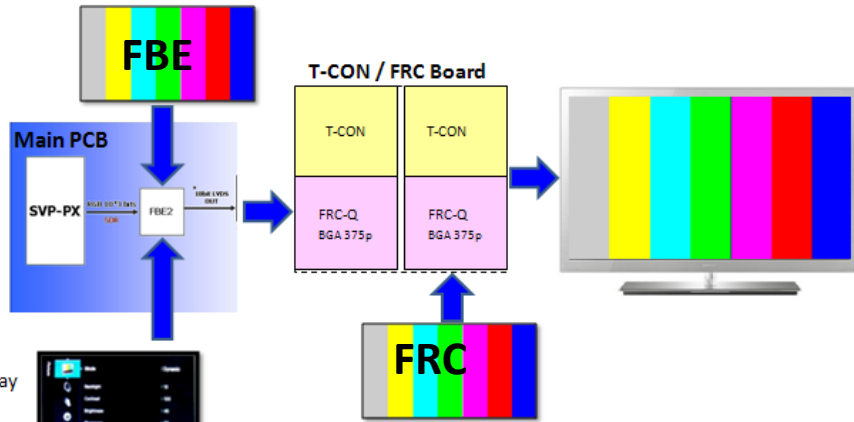
2. Power off
3. Mute, 182, Power

**Service Remote**

2. Power On
3. Info, Factory

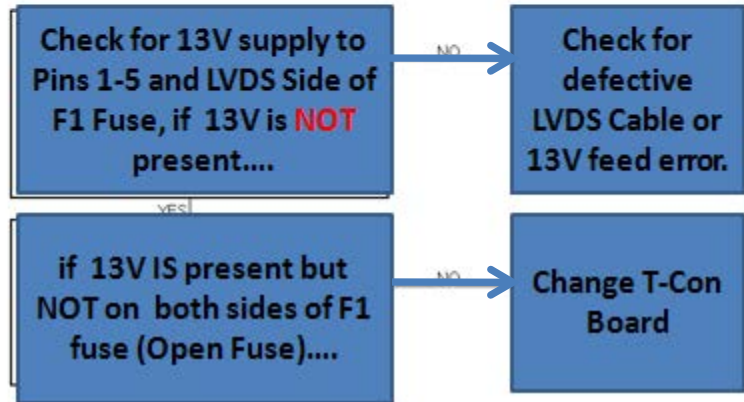
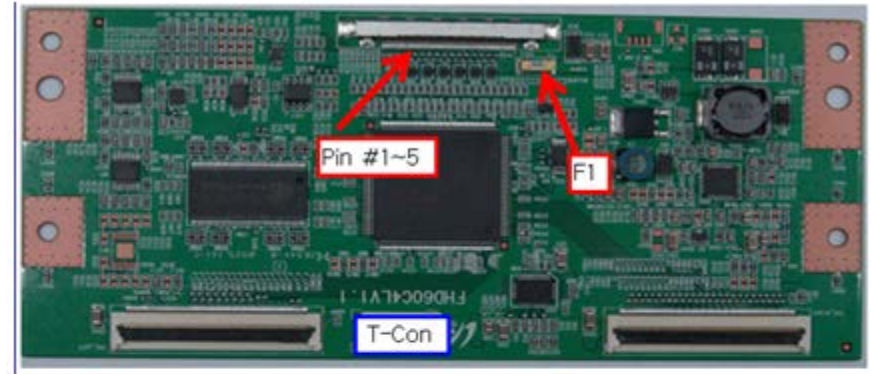
### 2010 Models with FRC 120Hz/240Hz

### LCD Signal Path for Troubleshooting



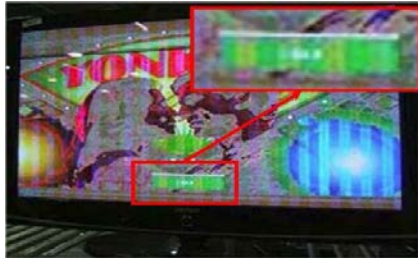
1. Check OSD & Customer Picture Test.
2. Access SVC Mode (with source signal)
3. Activate **FBE** Test Patterns & Verify.
4. Activate **FRC** Test Patterns & Verify.

## T-Con Troubleshooting





**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.

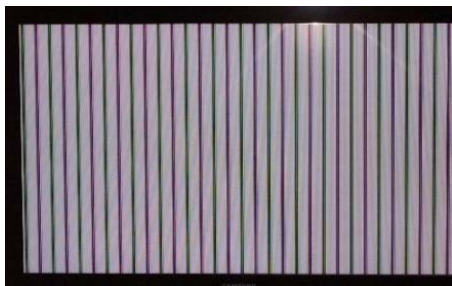


Original Image



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)

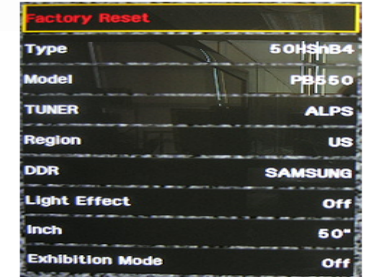
**ALIGNMENTS:**

**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-1-8-2-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	PN50B550T2FXZA	PN50B550T2FXZA	PN63B550T2FXZA
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"	53"
9	Exhibition Mode	Off	Off

Option Bytes



Model Code	Front Color					
		Type	Model	Tuner	Region	Side Label
LN37C550J1FXZA	T-R-BLK	37L6AF0C	LC550	Semco	US	AA02

**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.