SAMSUNG

POWER PCB

MAIN PCB

LVDS CABLE

DRIVER BOARD

SPEAKER

SPEAKER

SERVICE BULLETINS

2 011 LCD Option Byte Table
ASC20110624001.pdf

FIRMWARE
No current changes as of 12/29/11
Be sure to check for latest SW updates.

PARTS (Board Assemblies)
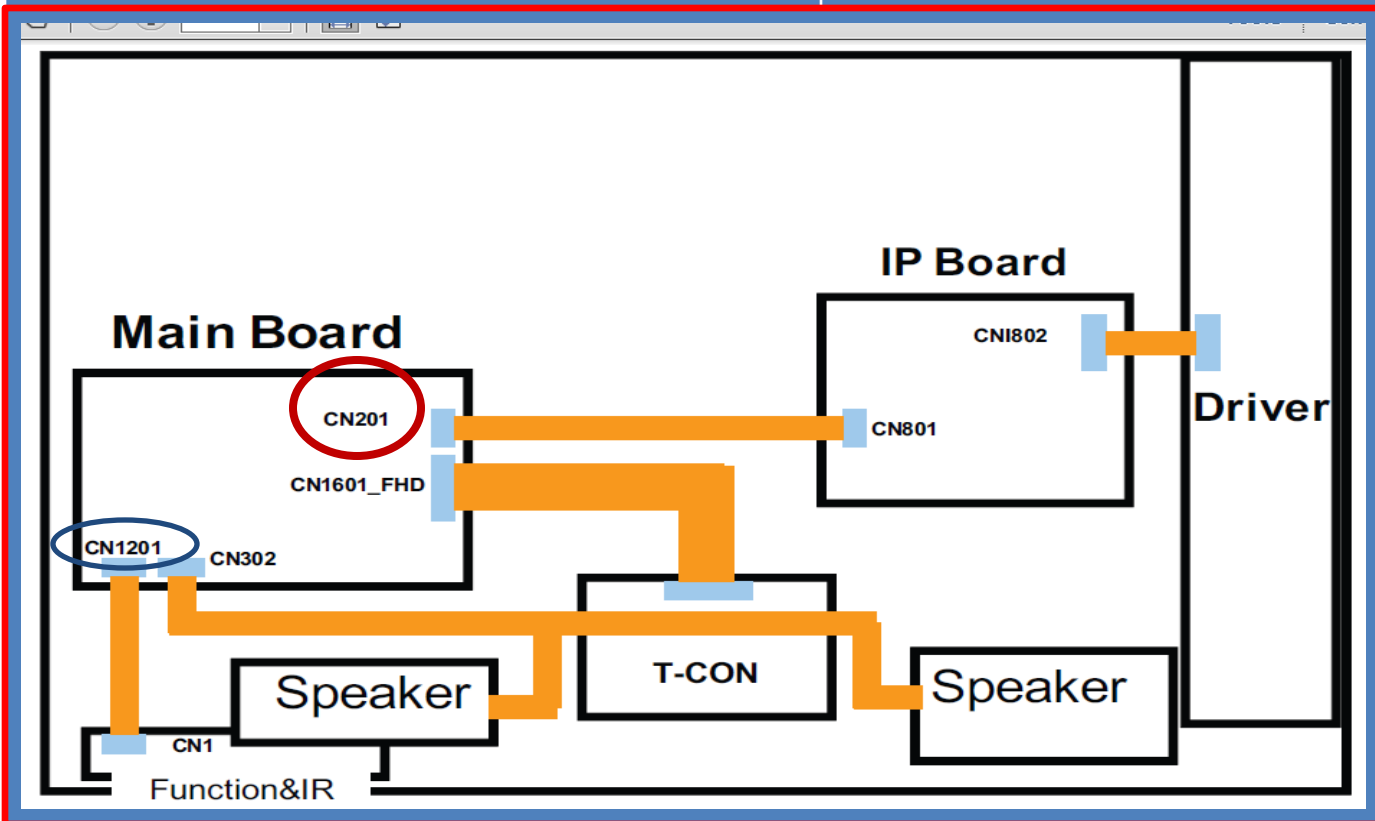Be sure to check for latest parts updates.

HOT TIPS
Power On Problems: (see **page 2**)
Video Problems: (see **pages 3,4**)
GSPN TIPS:
No Tips listed

Model Code	Side Label	Part No.				
		Panel Module	Inverter	T-Con	Main B'd	Power
LN32D550K1FXZA	SQ01	BN07-00979A	-	-	BN94-04509R	BN44-00438B

IP Board

CNI802

Main Board

CN201

CN1601_FHD

CN1201   CN302

Driver

CN801

Speaker   **T-CON**   **Speaker**

CN1

Function&IR

① CN201 (To Powr board)

1	B5 V	8	GND
2	SW_POWER	9	B12VS
3	B5 V	10	SW_INVERTER
4	A5 V	11	B13 V
5	GND	12	NC
6	GND	13	B13 V
7	B12VS	14	PWM_DIMM

⑥ CN1201 (FUNCTION)

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

Power On Sequence (approximate Voltages)
1. **Standby Voltages:** CN201-4 (5V)
2. **Power On** CN201- 2(0 – 3.5V)
3. **Low Voltage Supplies On** CN201-1,3,7,9, 11, 13 (Volts Listed on CN201)
4. **Back Light On** CN201- 10(0-5V delayed)
5. **Back Light Confirm** CNI802- "0VP" (approx 03 Volts Dim - .1 Volts bright)
6. **Dimming Signal** CN201-14 (1V–4V approx)

To Force Backlight On without Main Board :
1. Remove Power Cord
2. Remove CN 801
3. Plug Power Cord In.
4. Backlight should be on immediately.

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TROUBLESHOOTING VIDEO PROBLEMS

T-Con Troubleshooting

1. Verify Video Operation

a. Boot Logo with power on

b. **Customer Picture Test** in user men**u**

c. **"Display"** (If display and Boot Logo & Customer Picture Test is OK the source or cables are first suspected . Then check for a defective input on the Main Board.)

d. Substitute with known good Source (**external DVD or Signal Generator** to check inputs on Main Board)

2. Using Test Patterns in Service Mode

- ENTER SERVICE MODE –

1. Select an active source signal since Test Pattern may rely on signal source to appear or select TV Source mode.
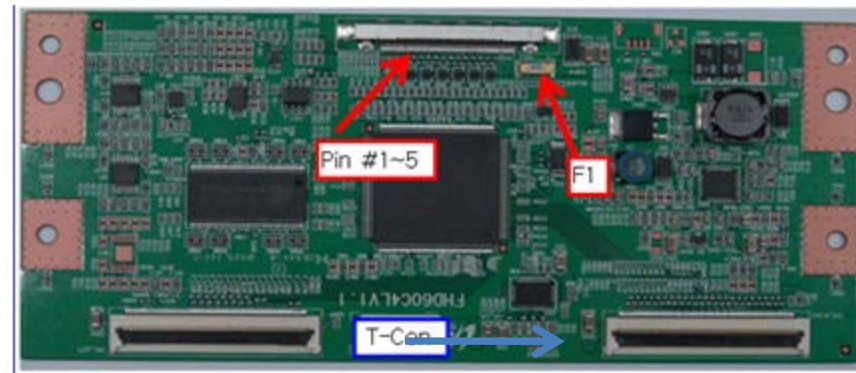
Customer Remote	Service Remote
2. Power Standby	**2.** Power On
3. Mute, 182, Power On	**3.** Info, Factory

4. Select SVC
5. Select Test Patterns

Check for 13V supply to Pins 1-5 and LVDS Side of F1 Fuse, if 13V is **NOT** present.... → NO → Check for defective LVDS Cable or 13V feed error.

if 13V IS present but NOT on both sides of F1 fuse (Open Fuse).... → NO → Change T-Con Board
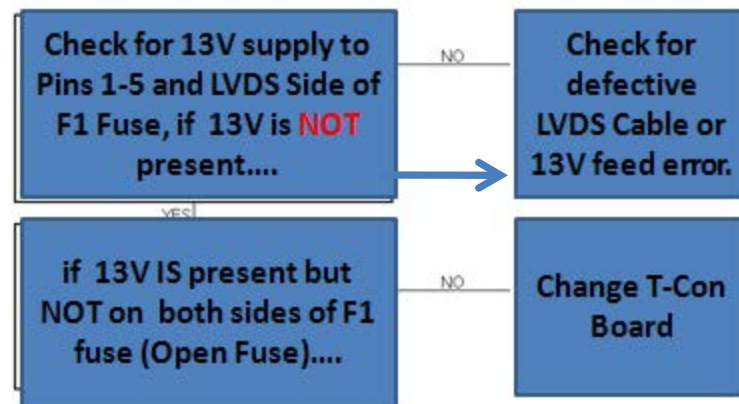
ON SCREEN FAILURE EXAMPLES:

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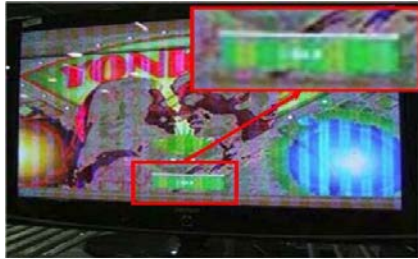
If Picture & Display errors Defective Main Board, LVDS, or T-CON

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

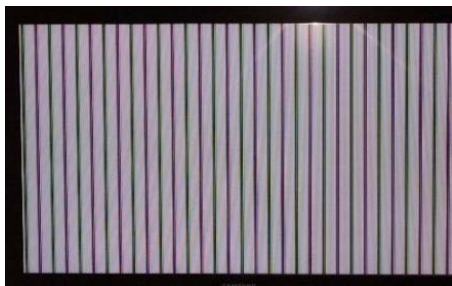**1. Check/Set Option Bytes: in Service Mode**

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

Model Code	Front Color	Type	Model	Tuner	Region		
LN32D550K1 FXZA	T-R-BLK	32A6AF0C	LD550	SI_ATC			

2. Check/Perform latest 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.

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)