

Service Bulletins

ASC20120402001

SUBJECT: Issue with the Wake on Voice (WoV) Command for 2012 Smart Interaction TVs.

SYMPTOM: TV turns on by itself or doesn't turn on by voice command.

REPAIR: Please check the firmware version. If the version is lower than 1012.0, have the customer upgrade to version 1012.0 or higher.

Part No.	Description
BN44-00523A	DC VSS-LED TV PD BD;PD55B2Q_CSM,PSLF151Q
BN81-07135A	A/S-CAMERA & IR;12Y LED 7K,W/O BOARD P-C
BN94-05566C	ASSY PCB MAIN;UE7X,E7000
BN95-00582C	ASSY T CON;LTJ550HQ16-V
BN95-00618A	PRODUCT LCD-AMLCD;7K ,LTJ550HQ16-V,8BITS
BN96-21431B	ASSY BOARD P-RF-MODULE;BLUETOOTH MODULE,
BN96-21871A	ASSY COVER P-MIDDLE;UE7000 55,UO,MABS+PM
BN96-21944A	ASSY COVER P-REAR;UE8000,55,UO,PCM T0.4,
BN96-22239J	ASSY CABLE P-FFC;UN55ES8000GXZD,FFC,0.5M
BN96-22665A	ASSY MISC P-CAMERA MODULE;KITE-LED 7000,
BN96-22726A	ASSY BOARD P-5WAY SWITCH FUNCTION;E7000/
BN96-22876A	ASSY BLU P;UN46ES7000FXZA,M12-8000,WHITE

Support Information

FIRMWARE 7/23/2012

(1031.0)

Description:

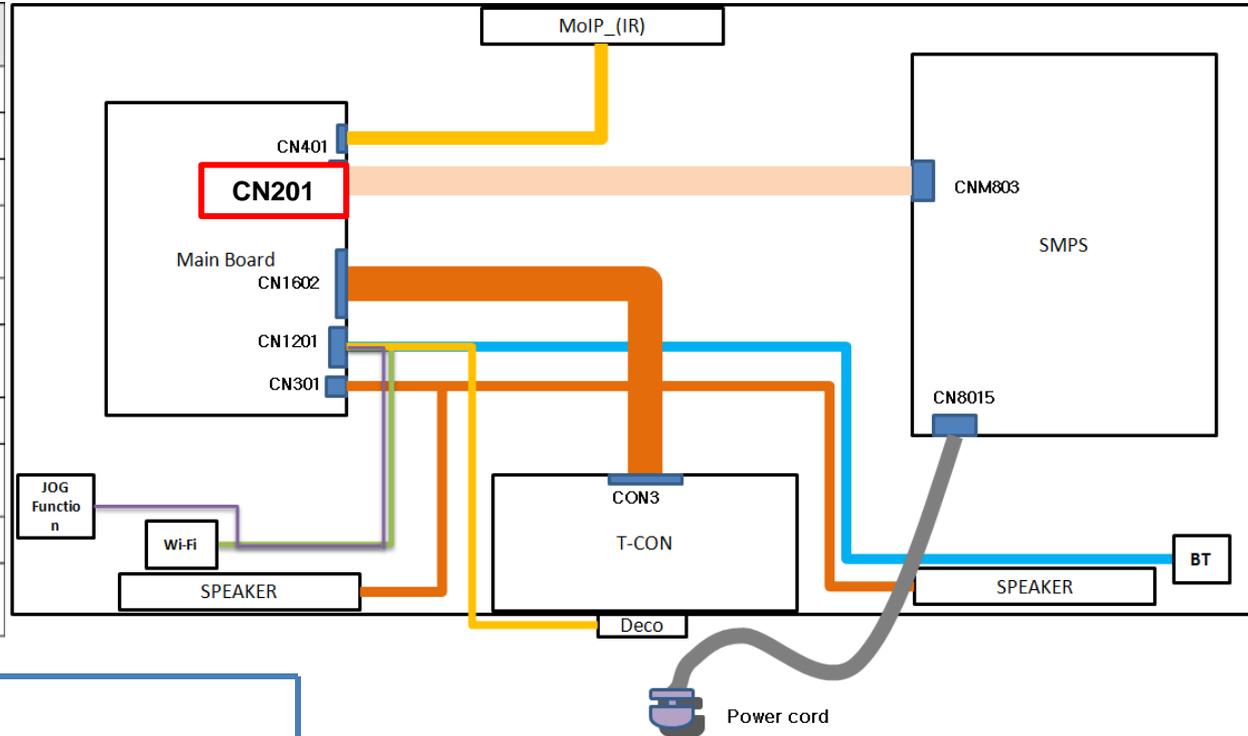
- Supports Angry Birds App.
- Improves performance of Smart Hub
- Adds print function in photo applications such as the Photo function of AllShare Play or Picasa.
- Supports Samsung Audio Dock and Wireless Keyboard VG-KBD1500
- Resolves compatibility issue with DLNA devices and network router/switch.
- Improves picture quality.
- Enhances Voice Recognition feature.

HOT TIPS

Power On Problems: (see page 2)
Video Problems: (see page 3)

CN201(POWER)

1	B5V_PW	11	B13V_PW
2	SW_POWER_OUT	12	B13V_PW
3	B5V_PW	13	B13V_PW
4	A5V_PW	14	PWM_DIMMING_TCON1_BUFF
5	GND	15	GND
6	GND	16	PWM_DIMMING_TCON2_BUFF
7	B13VS_PW	17	OVD_ON_OFF
8	GND	18	PWM_DIMMING_TCON3_BUFF
9	B13VS_PW	19	OVD_LEVEL
10	B5V_PW_1	20	PWM_DIMMING_TCON4_BUFF

**Power-Up Sequence (CN201):**

1. Standby Voltage: Pin 4 (5Vdc)
2. Power-ON: Pin 2 (Low-Hi voltage transition)
3. Low Voltages: Pin 1, 3, 7, 9, 11, 12, 13
4. Backlight On: Pin 10 (5Vdc)

Forced Backlight-On Mode:

1. Disconnect Power Cord
2. Disconnect wire harness from CN201
3. Re-Connect Power Cord
4. LED Backlight should immediately turn on

NOTE: If LED backlight fails to come on, place a jumper wire between Pin 2 and Pin 4 and try again



TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Customer Picture Test (models available)
- “On Screen Display” (If OSD ok, source is suspected)
- Substitute with known good Source (external DVD or Signal Generator)

2. Use Test Patterns in Service Mode

- Select an active source signal (HDMI preferred). Test Pattern may rely on signal source to appear.
- Using customer remote: Mute+1+8+2+Power
- Using factory remote: Info+Test

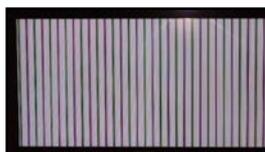
ON SCREEN FAILURE EXAMPLES:



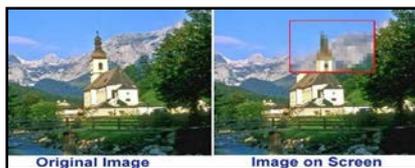
If Picture & Display errors, its likely a defective Main Board, LVDS, or T-CON



Green lines or a green screen likely caused by a defective main board, LVDS, or T-CON



Vertical or Horizontal Lines are likely a defective panel, but also T-CON, LVDS, or Main Board. Use Test Patterns in Factory Service Mode to determine error location



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

LOGIC Pattern Sel	13
LOGIC Level Sel	255
EchoP Pattern Sel	0
Echo-FP Pre Test Pattern	0
Echo-FP Post Test Pattern	0

Main Board Patterns Test
Select: **EchoP Pattern Sel**

Parma Post Test Pattern	0
SOC T-CON Test Pattern	0
SOC T-CON Pattern Level	255

T-CON Patterns Test
Select: **T-CON Test Pattern**



2011 LED TV Test Patterns

- Select an active source signal (HDMI preferred). Test Pattern may rely on signal source to appear.
- Access Service Mode
- Access **SVC**
- Access **Test Patterns**
- Access **Echo-P** (located on Main PCB)
- Check Test Patterns
- If OK, suspect input Source
- Access **SOC T-CON** (located on T-CON Board)
- Check Test Patterns
- If OK and Echo-P was not good, suspect Main Board or LVDS Cable

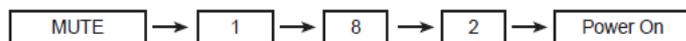


ALIGNMENTS:

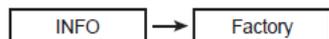
1. Check/Set Option Bytes
2. Check/Perform Firmware upgrade for all repairs
3. Perform reset in Service Mode
4. Inform customer all settings will reset if Main PCB is replaced

To enter Factory Mode:

- If you do not have Factory remote - control



- If you have Factory remote-control



Factory Menu Name	Data
Factory Reset	-
Type	46A2UF0E/55A2UF0E/60A2UF0E
Local set	US
Basic Model	UES7500
SVC Model	7500
TUNER	ECHO-CV
Ch table	NONE
Front Color	U-MOIP

Option Bytes

Software Upgrade:

Software Upgrade can be performed by network connection or downloading the latest firmware from “www.samsung.com” to a USB memory device.

By USB

Insert a USB drive containing the firmware upgrade file. **DO NOT** disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings.

NOTE: The displayed menu may differ depending on the model.

By Online

Upgrades the software using the Internet.

First, configure your network. If The internet connection doesn’t operate properly, connection can be broken, please retry downloading. If the problem still happens, download by USB and upgrade.

- Standby mode upgrade(Off/On)

A manual upgrade will be automatically performed at selected time. Since the power of the unit is turned on internally, the screen may be turned on slightly for the LED product. This phenomenon may continue for more than 1 hour until the software upgrade is complete.

Testing Bluetooth Operation (3D glasses and Smart Remote):

Bluetooth communication will automatically activate when the TV is turned on. To test, use a cell phone with Bluetooth capabilities, and “SCAN for devices”. If Bluetooth communication is working properly, “**DTVBluetooth**” will appear on the phone. If not, suspect Main PCB, or Bluetooth module is defective.



Message on Cell Phone

Camera/Microphone Troubleshooting

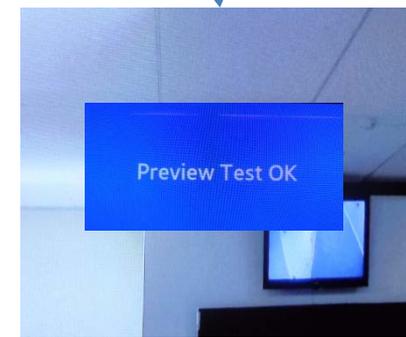
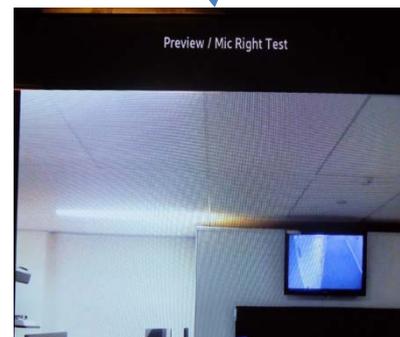
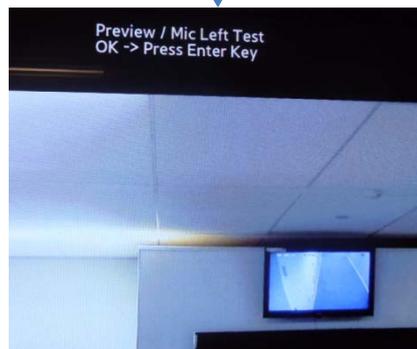
1. Enter Test Mode:
 - TV Power On
 - Using Standard Remote Control
 - Press:
Mute+5+6+9+Exit
2. Speak into (Left) Mic
Verify its OK with sound from speakers
3. Press Enter
4. Speak into (Right) Mic
Verify its OK with sound from speakers.
5. Press Exit
“Preview Test OK” only
Indicates test completed.
Not that no error exists



Preview / Mic Left Test
OK -> Press Enter Key

Preview / Mic Right Test

Preview Test OK



Camera & **Left** Mic
Activated

Camera & **Right** Mic
Activated