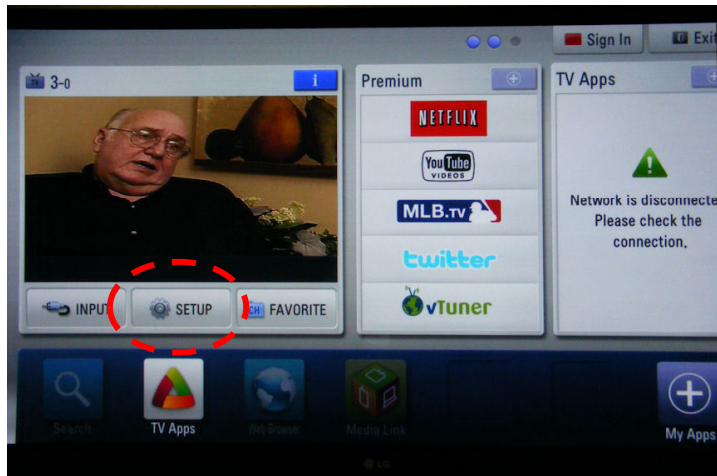


## Software Updates (New and Changed Functions)

A wireless Internet Connection will work for Automatic Software Downloads, however if there are problems completing download, a Wired Internet Connection is preferred

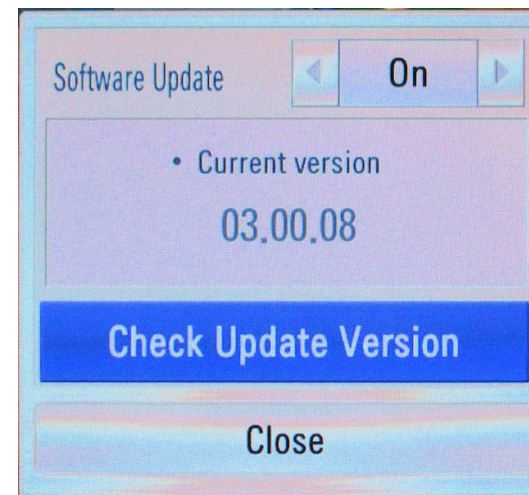


Scroll down to highlight the “?” mark (SUPPORT). Cursor right to highlight “Software Update”, Press “ENTER” on Remote



Bring up the Customer’s Menu then cursor down 2 times, (Input) will be highlighted. Cursor right to highlight (SETUP). Press “ENTER” on the Remote.

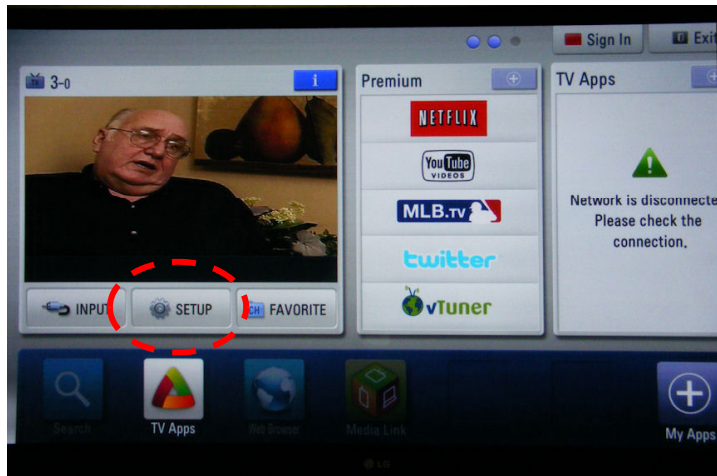
Highlight “Check Update Version” to see if an update is available. Scroll up to highlight “ON” and cursor right to turn off automatic Software Update.



Continue on next page

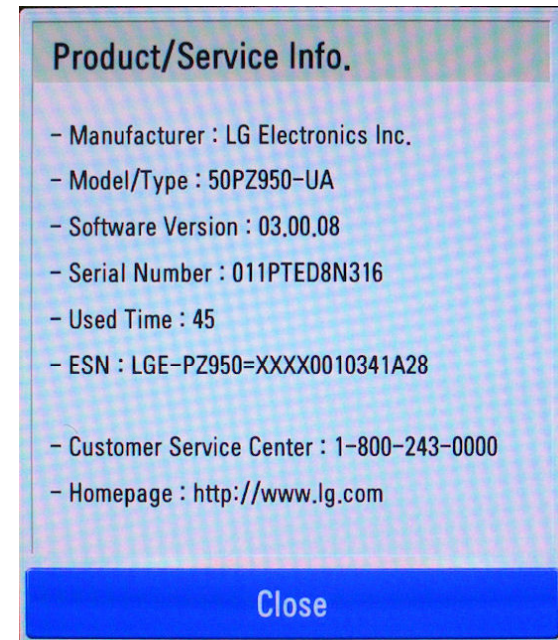
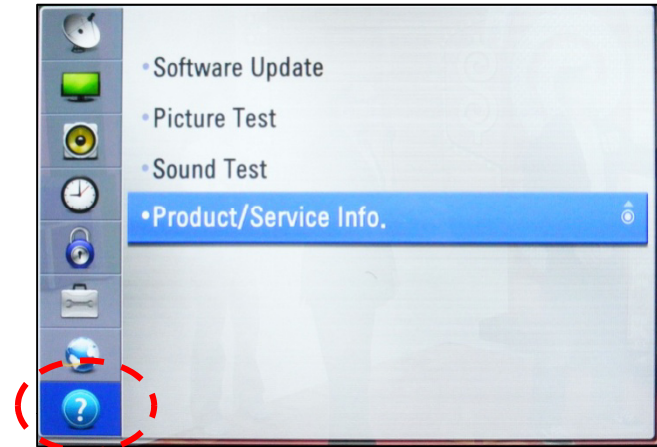
## Software Updates (New and Changed Functions)

A wireless Internet Connection will work for Automatic Software Downloads, however if there are problems completing download, a Wired Internet Connection is preferred



1) Bring up the Customer's Menu then cursor down 2 times, (Input) will be highlighted. Cursor right to highlight (SETUP). Press "ENTER" on the Remote.

2) Scroll down to highlight the "?" mark (SUPPORT). Cursor right and scroll down to highlight "Product/Service Info", Press "ENTER" on Remote

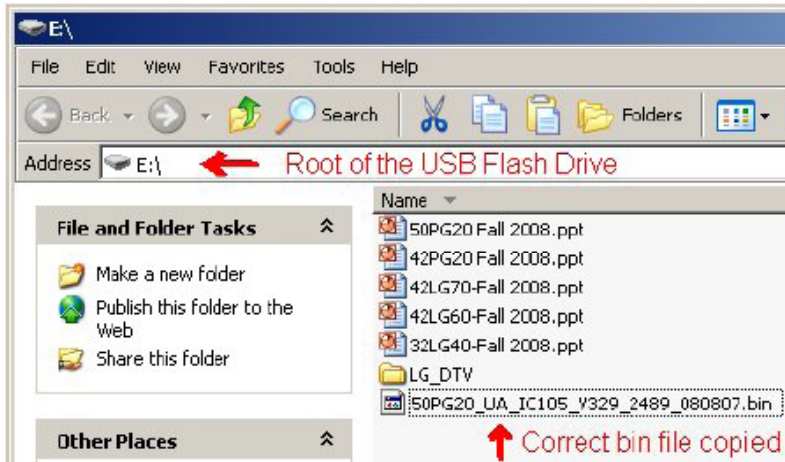


3) Information for Customer Support appears.  
Note: Model Number does not include suffix.

Continue on next page

# Generic Plasma USB Automatic Software Download Instructions

1) Download the Software File.



2) Copy new software (xxx.bin) into the root of the Jump Drive. Make sure you have the correct software file.

3) With TV turned on, insert USB flash drive.

4) You can see the message

“TV Software Upgrade” (See figure on right)

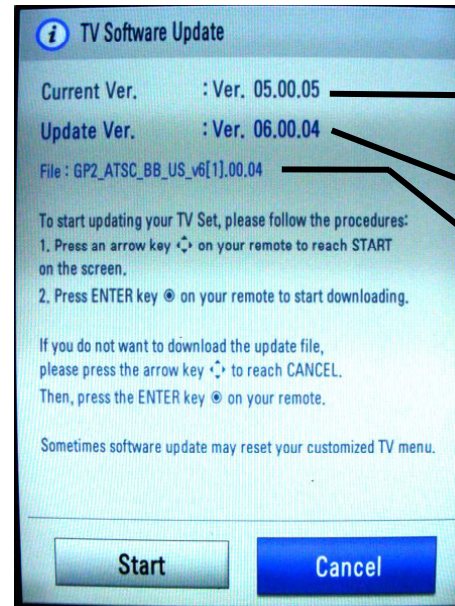
5) Cursor left and highlight "START" Button and push “Enter” button using the remote control.

6) You can see the download progress Bar.

7) Do not unplug until unit has automatically restarted.

8) When download is completed, you will see “COMPLETE”.

9) Your TV will be restarted automatically.



Currently Installed Version

Software Version found on the USB Flash Drive

File found on the USB Flash Drive

Highlight Start Press Select

## \* CAUTION:

**Do not remove AC power or the USB Flash Drive. Do not turn off Power, during the upgrade process.**

**Software Files are now available from [LGTechassist.com](http://LGTechassist.com)**

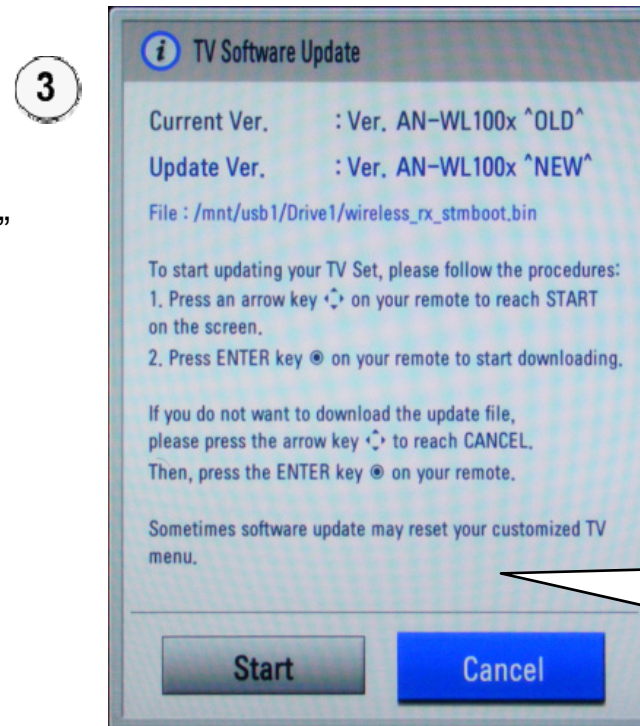
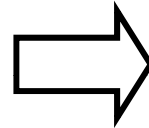
## Manual Software Download:

Prepare the Jump Drive as described in the “USB Automatic Download” section and insert it into either of the USB ports. Bring up the Customer’s Menu and scroll to “OPTIONS”, (Nothing should be highlighted on the right side). Press the “5” key 7 times to bring up the first screen for Manual Download Screen (Expert Mode).



2 Scroll down and highlight “Options”

Press the “5”  
key 7 times



Location of  
files found  
On the Jump  
Drive

4 Highlight the Software update file the highlight “Start” and press “SELECT” to begin the download process.

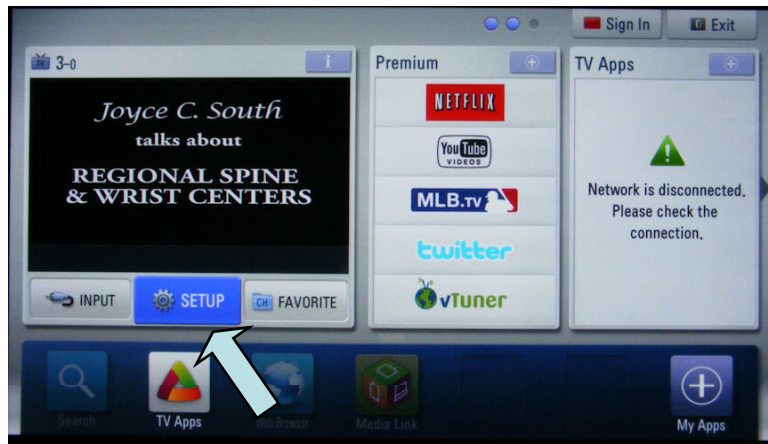
### WARNING:

Use extreme Caution when using the Manual “Forced” Download Menu. Any file can be downloaded when selected and may cause the Main board to become inoperative if the incorrect file was selected.

## Accessing the Host Diagnostic Screen (Page 1 of 2)

Use the Host Diagnostic screen to investigate the signal quality of a problem channel.

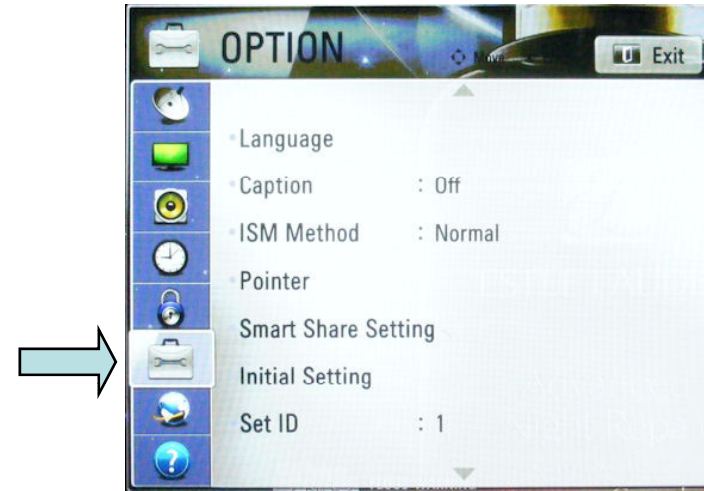
- 1) Place Television on the digital channel that may be showing problems.
- 2) Bring up the Customer's Menu. Cursor down two times and right once to highlight "Setup". Press "Enter" on the remote.



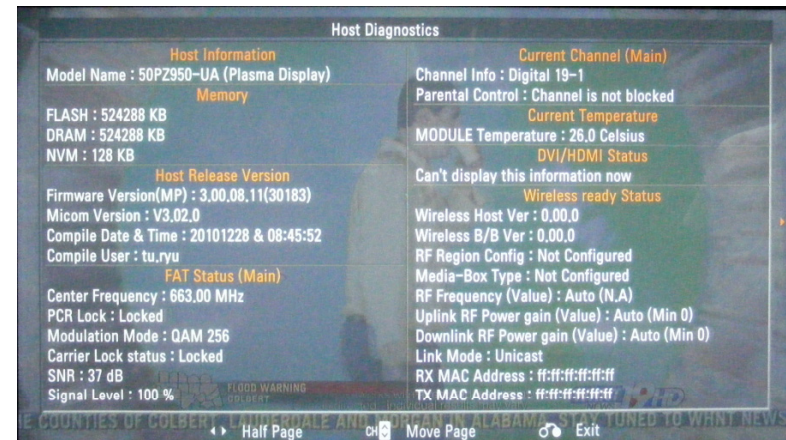
- 3) The "Setup" Menu appears.



- 4) Scroll down and highlight "Options".



- 5) Press the (1) Key 5 to 8 times.  
The Host Diagnostics screen appears.



See next page for more details.

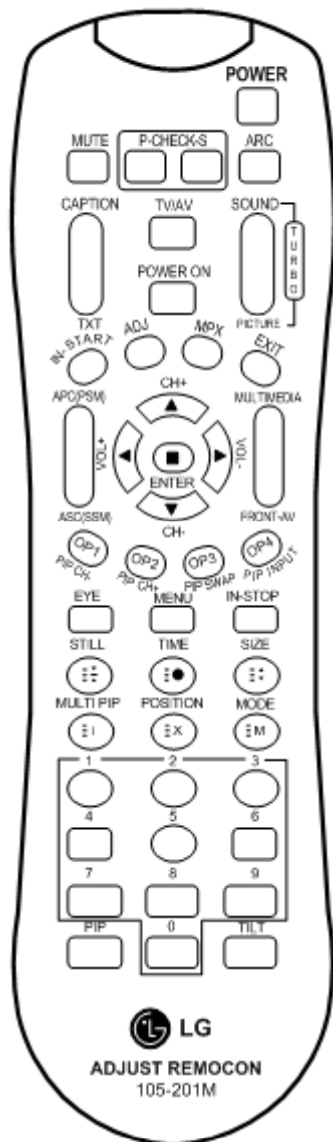
# 50PZ950 Understanding the Host Diagnostic Screen (Page 2 of 2)

## Host Diagnostics

<p style="text-align: center;"><b>Host Information</b></p> <p>Model Name : 50PZ950-UA (Plasma Display)</p> <hr/> <p style="text-align: center;"><b>Memory</b></p> <p>FLASH : 524288 KB          DRAM : 524288 KB          NVM : 128 KB</p> <hr/> <p style="text-align: center;"><b>Host Release Version</b></p> <p>Firmware Version(MP) : 3.00.08.11(30183) <span style="border: 1px solid black; padding: 2px;">Software Version</span>          Micom Version : V3.02.0          Compile Date &amp; Time : 20101228 &amp; 08:45:52          Compile User : tu.ryu</p> <hr/> <p style="text-align: center;"><b>FAT Status (Main)</b></p> <p>Center Frequency : 663.00 MHz <span style="border: 1px solid black; padding: 2px;">Channel Frequency</span>          PCR lock : Locked <span style="border: 1px solid black; padding: 2px;">Program Clock Reference (Locked or No)</span>          Modulation mode : QAM 256 <span style="border: 1px solid black; padding: 2px;">Channel Type (8VSB, QAM 64, 256)</span>          Carrier lock status : Locked <span style="border: 1px solid black; padding: 2px;">Channel (Locked or No)</span>          SNR : 37 dB <span style="border: 1px solid black; padding: 2px;">Channel Signal to Noise Ratio</span>          Signal level : 100% <span style="border: 1px solid black; padding: 2px;">Channel Signal Level (Above 80% good)</span></p>	<p style="text-align: center;"><b>Channel Selected</b></p> <p style="text-align: center;"><b>Current Channel (Main)</b></p> <p>Channel Info : Digital 19-1 <span style="border: 1px solid black; padding: 2px;">Blocked or not Blocked</span>          Parental Control : Channel is not blocked</p> <hr/> <p style="text-align: center;"><b>Current Temperature</b></p> <p>MODULE Temperature: 33.5 Celsius</p> <hr/> <p style="text-align: center;"><b>DVI/HDMI Status</b></p> <p>Can't display this information now</p> <hr/> <p style="text-align: center;"><b>Wireless ready Status</b></p> <p>Wireless Host Ver:0.00.0          Wireless B/B Ver:0.00.0          RF Region Config : Not Configured          Media Box Type : Not Configured          RF Frequency (Value):Auto (N.A.)          Uplink RF Power gain (Value):Auto (Min 0)          Downlink RF Power gain (Value):Auto:Auto (Min 0)          Mode : Unicast          RX MAC Address : ff:ff:ff:ff:ff:ff          TX MAC :</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>8VSB (Above 20 is good)          QAM 64 (Above 24 is good)          QAM 256 (Above 30 is good)</p> </div>
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◀ ▶ Half Page     CH ^  
v Move Page     🔄 Exit

## Accessing the Service Menu



105-201M

To access the Service Menu.

- 1) You must have either Service Remote. p/n 105-201M or p/n MKJ39170828
- 2) Press “In-Start”
- 3) A Password screen appears.
- 4) Enter the Password.

Note: A Password is required to enter the Service Menu. Enter; **0000**

Note: If **0000** does not work use **0413**.



MKJ39170828

# 50PZ950 Service Menu First Page

Bring up the Service Menu using the Service Remote  
And pressing "In-Start" enter password 0413.

**IN SART**

Model Name: 50PZ950-UA  
 Serial Number: 011PTED8N316  
 S/W Version: : 03.00.08.11  
 MICOM Version : 3.02.0  
 BOOT Version : 1.02.51  
 IR LED Version : 0.05 (0x00)  
 EDID (RGB/HDMI) : 0.02/0.00  
 Chip Type : BCM 35230  
 Wireless Host Ver. : 0.00.0  
 Wireless B/B/ Ver. : 0.00.0  
 Vi-Fi Version : 1.0  
 Vi-Fi Channel : 0  
 Wi-Fi MAC : 00:00:00:00:00:00  
 MAC Address : E8:5B:5B:24:75:2C  
 Widevine : LGTV10L000010062  
 ESN Num. : LGE-LX6500XXX000A0C9037  
 Module Rom Ver: 50R3\_3PV1B1  
 Formatter Ver. : 0.80  
 RF Receiver Version : VA740  
 Debug Status : RELEASE

UTT : 12  
 APP History Ver.:30183  
 PQL DB:LGE\_PF\_LGT10\_xxNx50

**1. Adjust Check**  
 2. ADC Data  
 3. Power Off Status  
 4. System 1  
 5. System 2  
 6. Model Number D/L  
 7. Test Option  
 8. External ADC  
 9. Pattern Selection  
 10. Panel Control  
 11. Spread Spectrum  
 12. Sync Level  
 13. Wireless Ready  
 14. Stable Count  
 15. ODC Test  
 16. Power Error History  
 17. SDP Server Selection  
 18. Network Error History

SW Version  
 Video Processor Chip Type  
 Electronic Serial No.  
 Control Board Software Version  
 Unit Total Time

**Adjust Check**

**1. Country Group** (Press OK to Save)

Country Group Code	02
Country Group	US
Country	US

**2. Tool Option**

Tool Option 1	32777
Tool Option 2	65
Tool Option 3	7519
Tool Option 4	7560
Tool Option 5	14925
Tool Option 6	33625

**3. Adjust White Balance:** OK  
**4. Adjust ADC:** OK

480i Component	OK
1080p Component	OK
RGB	OK

**5. EDID(AC3):** OK

RGB	OK (0x47)
HDMI1	OK (0x7f,0xCF)
HDMI2	OK (0x7f,0xBF)
HDMI3	OK (0x7f,0xAF)
HDMI4	OK (0x7f,0x9F)

Country Group  
 Priority Audio Mode



## 50PZ950 Model Number Download Screen

When the Main Board is replaced, the Model Number and Serial Number must be corrected. Follow these instructions

Bring up the Service Menu using the Service Remote. Scroll down to item 6. Model Number D/L to highlight. Press "ENTER" or "Cursor Right".

<p><b>IN SART</b></p> <p>Model Name: 50PZ950-UA Serial Number: 011PTED8N316 S/W Version: : 03.00.08.11 MICOM Version : 3.02.0 BOOT Version : 1.02.51 IR LED Version : 0.05 (0x00) EDID (RGB/HDMI) : 0.02/0.00 Chip Type : BCM 59250 Wireless Host Ver. : 0.00.0 Wireless B/B/ Ver. : 0.00.0 Vi-Fi Version : 1.0 Vi-Fi Channel : 0 Wi-Fi MAC : 00:00:00:00:00:00 MAC Address : E8:5B:5B:24:75:2C Widevine : LGTV10L000010062 ESN Num. : LGE-LX6500XXX000A0C9037 Module Rom Ver: 50R3_3PV1B1 Formatter Ver. : 0.80 RF Receiver Version : VA740 Debug Status : RELEASE</p> <p>UTT : 12 APP History Ver.:30183 PQL DB:LGE_PF_LGT10_xxNx50</p>	<p>1. Adjust Check 2. ADC Data 3. Power Off Status 4. System 1 5. System 2 <b>6. Model Number D/L</b> 7. Test Option 8. External ADC 9. Pattern Select 10. Panel Control 11. Spread Spectrum 12. Sync Level 13. Wireless Ready 14. Stable Count 15. ODC Test 16. Power Error History</p>	<p>Model Number D/L</p> <p>0. Model Name <b>50PZ950-UA</b> 1. Serial Num. 011PTED8N316</p> <p>Press OK to Save</p> <div data-bbox="1247 776 1990 1110"><p>To Change the Model Number</p><ol style="list-style-type: none"><li>1) Use the cursor right or left to select the area to change.</li><li>2) Use the cursor up or down to change.</li><li>3) Cursor right until there is no text cursor blinking.</li><li>4) Cursor down to highlight "Serial Number" and change.</li><li>5) Press "ENTER" to Save</li></ol></div>
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## 50PZ950 Service Menu: Panel Control Shows Control Board Information

At the bottom right you can see the Panel Model Number, Control board Software Version and the Panel Temperature

IN START		Panel Control
Model Name: 50PZ950-UA	1. Adjust Check	1. AV/PC <b>AV</b>
Serial Number: 011PTED8N316	2. ADC Data	2. ISM <b>Auto</b>
S/W Version: : 03.00.08.11	3. Power Off Status	3. Gamma <b>0</b>
MICOM Version : 3.02.0	4. System 1	4. Power Save <b>Mode 0</b>
BOOT Version : 1.02.51	5. System 2	5. APS Contrast <b>98</b>
IR LED Version : 0.05 (0x00)	6. Model Number D/L	6. OrbitPixel <b>2</b>
EDID (RGB/HDMI) : 0.02/0.00	7. Test Option	7. OrbitStep <b>2 step</b>
Chip Type : BCM 35230	8. External ADC	8. OrbitTime <b>120 sec.</b>
Wireless Host Ver. : 0.00.0	9. Pattern Selection	9. MRE(FMC) <b>On</b>
Wireless B/B/ Ver. : 0.00.0	<b>10. Panel Control</b> ▶	10. DPS2 <b>0</b>
Vi-Fi Version :1.0	11. Spread Spectrum	11. GRP <b>Off</b>
Vi-Fi Channel : 0	12. Sync Level	12. Module OSD <b>0</b>
Wi-Fi MAC : 00:00:00:00:00:00	13. Wireless Ready	13. Module XDP <b>On</b>
MAC Address : E8:5B:5B:24:75:2C	14. Stable Count	13. Formatter XDP <b>On</b>
Widevine : LGTV10L000010062	15. ODC Test	14. RF Emitter Control <b>On</b>
ESN Num. : LGE-LX6500XXXX000A0C9037	16. Power Error History	15. Formatter Download ▶
Module Rom Ver: 50R3_3PV1B1	17.SDP Serve <b>No Function</b>	16. Reset Use Time ▶
Formatter Ver. : 0.80	18.Netw <b>Panel Model No.</b>	Module Name: <b>50R3</b>
RF Receiver Version : VA740	Ctl. Board ROM Software Version	Rom Ver. <b>50R3_3PV1B1</b>
Debug Status : RELEASE	Panel Temperature	Temperature: <b>25.00 Celsius</b>
UTT : 12 <b>Unit's Total Time</b>	Software Build Version	Build Ver. <b>V30183</b>
APP History Ver.:30183		
PQL DB:LGE_PF_LGT10_xxNx50		

# 50PZ950 UTT Reset (IN START) Screen

IN SART		SYSTEM 1	
Model Name: 50PZ950-UA	1. Adjust Check	0. Baudrate	115200
Serial Number: 011PTED8N316	2. ADC Data	1. 2 Hours Off (On Timer)	On
S/W Version: : 03.00.08.11	3. Power Off Status	2. 2 Hours Off (Screen Mute)	Off
MICOM Version : 3.02.0	4. System 1	3. 15Min Force Off	On
BOOT Version : 1.02.51	5. System 2	4. Audio EQ	On
IR LED Version : 0.05 (0x00)	6. Model Number D/L	5. Dynamic EQ	On
EDID (RGB/HDMI) : 0.02/0.00	7. Test Option	6. A2 Threshold	11
Chip Type : BCM 35230	8. External ADC	7. HDMI Sound(Port1)	HDMI Port1
Wireless Host Ver. : 0.00.0	9. Pattern Selection	8. Lip Sync Adjust(DTV)	0
Wireless B/B/ Ver. : 0.00.0	10. Panel Control	9. Dimming	On
Vi-Fi Version :1.0	11. Spread Spectrum	10. Tuner Option	Enhanced Ghost
Vi-Fi Channel : 0	12. Sync Level	11. Atten RF Signal	Off
Wi-Fi MAC : 00:00:00:00:00:00	13. Wireless Ready	12. UTT Reset	Reset
MAC Address : E8:5B:5B:24:75:2C	14. Stable Count	13. Channel Mute	On
Widevine : LGTV10L000010062	15. ODC Test	14. Debug Status	RELEASE
ESN Num. : LGE-LX6500XXXX000A0C9037	16. Power Error History	15. NVRAM Type	EEPROM
Module Rom Ver: 50R3_3PV1B1	17. SDP Server Selection	16. HDEV	Off
Formatter Ver. : 0.80	18. Network Error History	17. Blue back	On
RF Receiver Version : VA740		18. China Cable SO	On
Debug Status : RELEASE		19. Booster On (VHF)	0
Unit Total Time		20. Booster Off (VHF)	0
UTT : 12		21. Booster On (UHF)	0
APP History Ver.:30183		22. Booster Off (UHF)	0
PQL DB:LGE_PF_LGT10_xxNx50			

Changes to Doing

Note: After UTT is reset, the UTT time on the left will not reset to "0" until the Service Menu is exited.

Scroll to (System 1) then Right Cursor

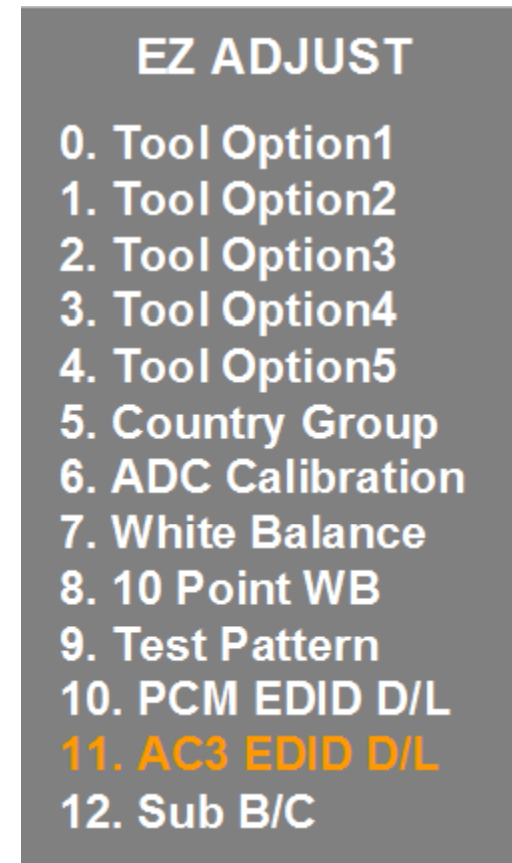
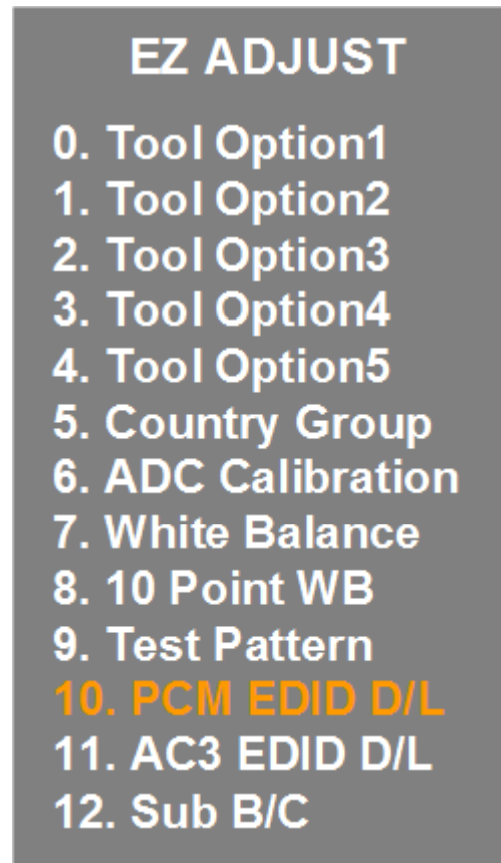
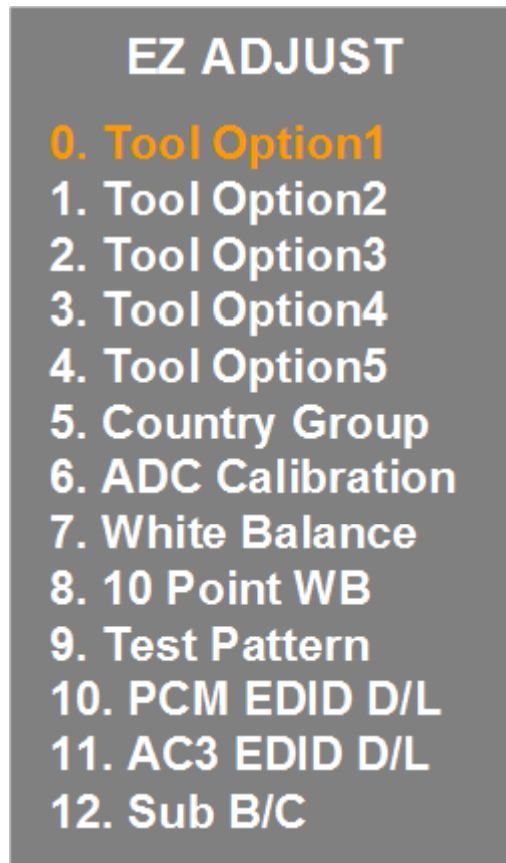
Scroll to (UTT Reset) Press (Select) Reset changes to Doing then back to Reset

After Reset (Doing) has completed, Reset returns. After Exit the UTT Timer is "0"

## *Service Menu: Downloading EDID Data Pg 1 of 2*

1) Press “ADJ” key.

2) Select menu,  
Either “PCM EDID D/L” or AC3 EDID D/L



## Service Menu: Downloading EDID Data Pg 2 of 2

3) Highlight “Start”  
then Press “Select” key.

When PCM EDID D/L was selected

PCM EDID D/L	
HDMI1	NG
HDMI2	NG
HDMI3	NG
RGB	NG

**Start** **Reset**

4) When Writing appears  
Downloading in progress

PCM EDID D/L	
HDMI1	Writing...
HDMI2	Writing...
HDMI3	Writing...
RGB	Writing...

**Start** **Reset**

5) Downloading Complete

PCM EDID D/L	
HDMI1	OK/(PCM)
HDMI2	OK/(PCM)
HDMI3	OK/(PCM)
RGB	OK/(PCM)

**Start** **Reset**

When AC3 EDID D/L was selected

AC3 EDID D/L	
HDMI1	NG
HDMI2	NG
HDMI3	NG
RGB	NG

**Start** **Reset**

AC3 EDID D/L	
HDMI1	Writing...
HDMI2	Writing...
HDMI3	Writing...
RGB	Writing...

**Start** **Reset**

AC3 EDID D/L	
HDMI1	OK/(AC3)
HDMI2	OK/(AC3)
HDMI3	OK/(AC3)
RGB	OK/(AC3)

**Start** **Reset**

**Note:** When PCM is downloaded, AC3 will be N/G and when AC3 is downloaded PCM will be N/G. This means that when PCM is OK, PCM audio is priority and when AC3 is OK, AC3 audio is priority.