



# FHD TV

Chassis : UWK60

Model : UN40K6250AF  
UN49K6250AF  
UN55K6250AF

## ***SERVICE*** Manual

### FHD TV



UN\*\*K6250AF

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2. Product specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. Wiring Diagram

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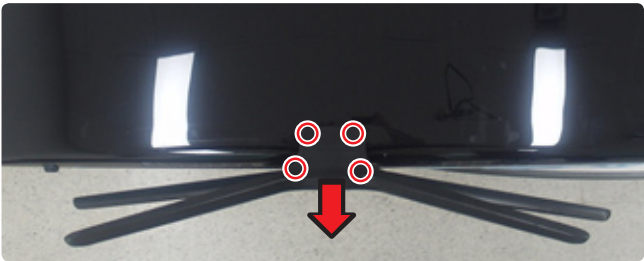
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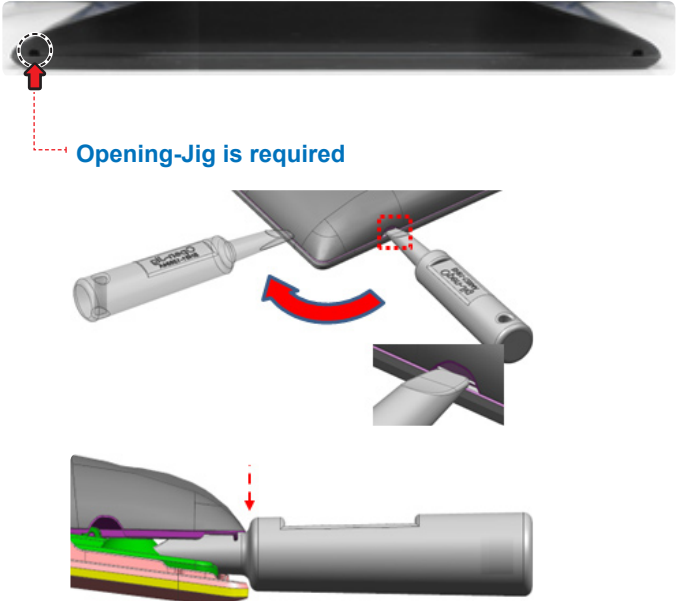
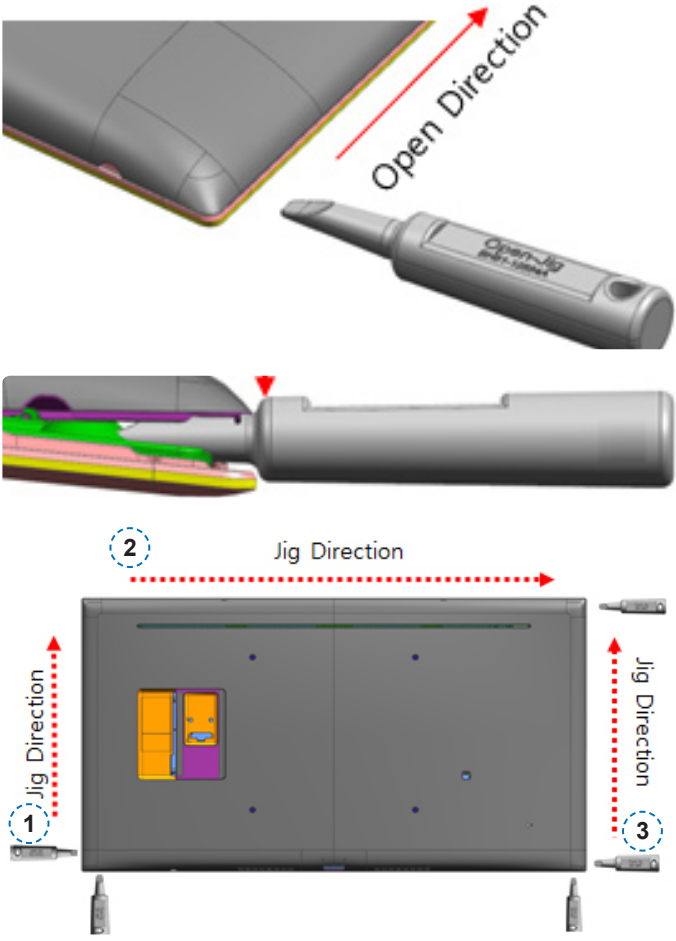
### 3. Disassembly and Reassembly

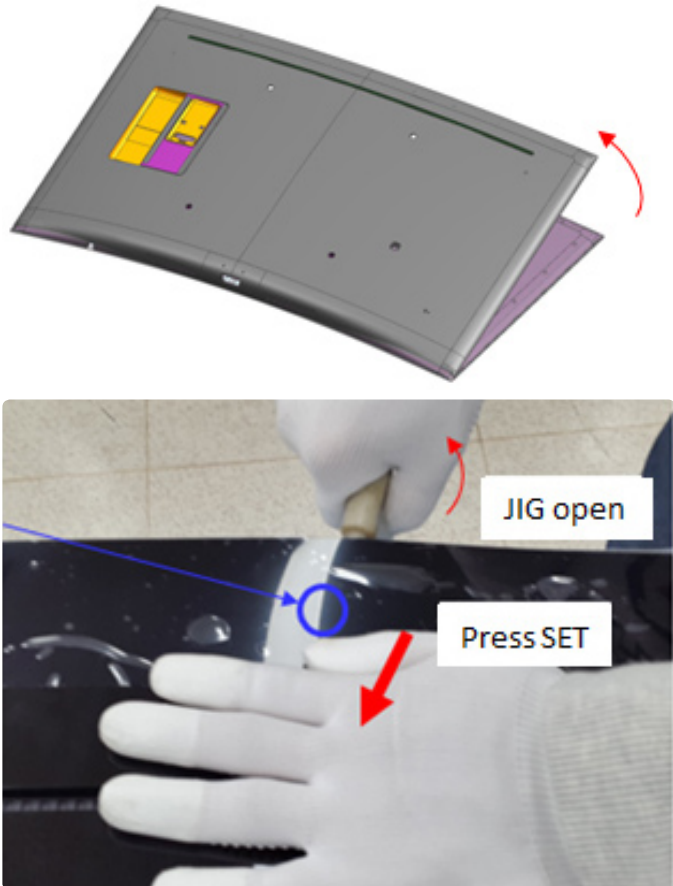
#### 3-1. Disassembly and Reassembly

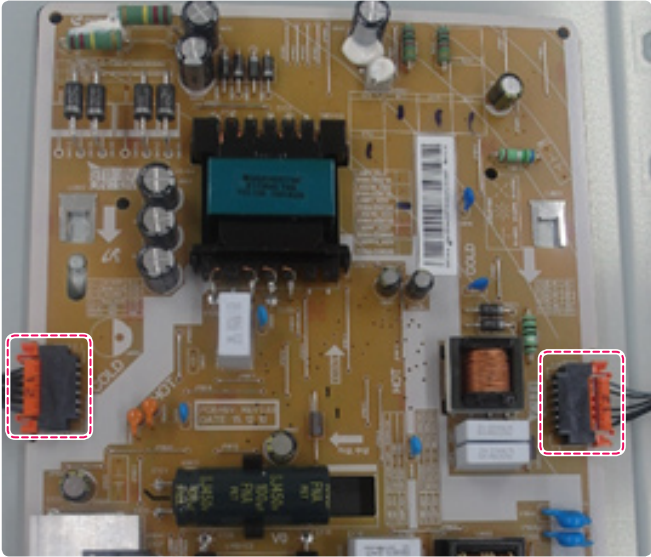
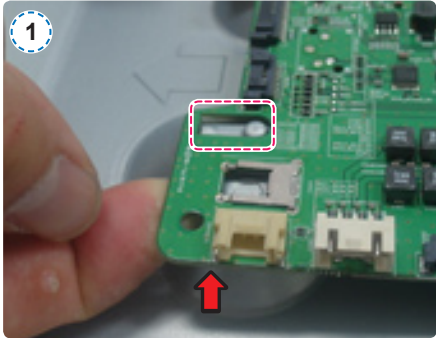
Require Parts

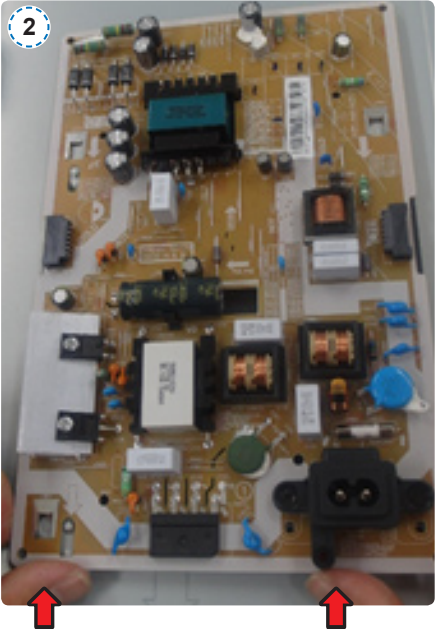
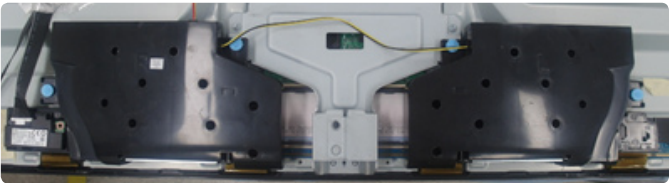
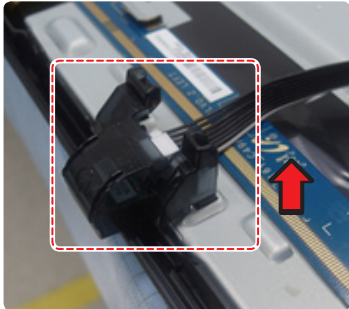
| Required Jigs & Tools                                                             |                                                                      |              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------|
|  | <ul style="list-style-type: none"><li>• Open Jig Tool</li></ul>      | BN81-12884A  |
|  | <ul style="list-style-type: none"><li>• Protective Cushion</li></ul> | BN81- 10739A |

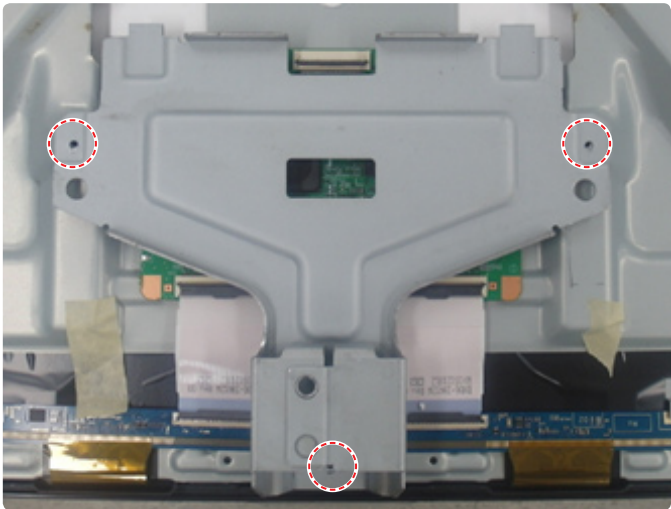
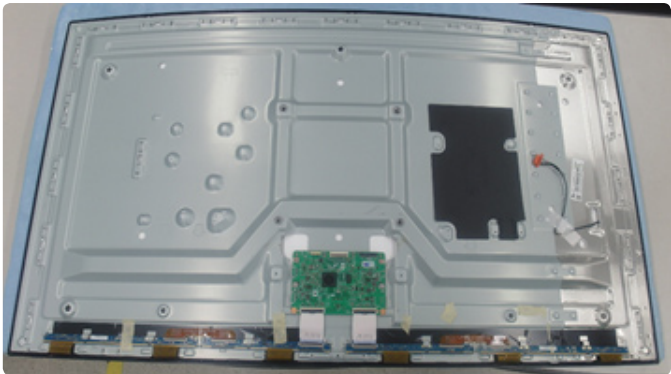
| Description                                                                                                                                                                                                                                 | Picture Description                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p><b>1</b> Place TV facing down on the table with a curved cushion.</p>                                                                                                                                                                    |   |
| <p><b>2</b> Remove the stand screws(4ea) and then pull out the stand.</p> <p><b>Screws</b></p> <div><p>6001-003072 x 4EA<br/>TORQUE : 7~13 lbf</p></div> |  |

| Description                                                                                                                        | Picture Description                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p><b>3</b> Insert the Opening-Jig at the indicated positions to release bottom left corners of the rear cover.</p>                |   |
| <p><b>4</b> Open-Jig should be fully inserted and then pry to release the rear cover mounting clips. Move indicated direction.</p> |  |

| Description                                                                                                                  | Picture Description                                                                  |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p><b>5</b> Gently lift up the Rear Cover as shown in the picture. (It can be opened when the 3 edges are disassembled.)</p> |   |
| <p><b>6</b> Remove the function cable, wi-fi cable, speaker cable, SMPS cable and LVDS cable.</p>                            |  |

| Description                                                                                                                                                                                                                                 | Picture Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>7</div> <div>Remove the SMPS cable and BLU cable.</div>                                                                                                                                                                                |  A photograph of a yellow printed circuit board (PCB) with various electronic components. Two connectors are highlighted with red dashed boxes: a multi-pin connector on the left and a similar one on the right. These are the SMPS and BLU cable connectors respectively.                                                                                                                                                                                                                                    |
| <div>8</div> <div>Removing Main board.</div> <div><ul style="list-style-type: none"><li>Gently lift up (Bottom Right corner) to release the lock</li><li>Use both hands to hold the board and slide UP to release the board</li></ul></div> | <div><div>1</div>A close-up photograph showing a hand lifting the bottom right corner of a green PCB. A red dashed box highlights a small latch or lock mechanism. A red arrow points upwards from the bottom edge of the board.</div> <div><div>2</div>A photograph showing the green PCB being slid upwards within its housing. Two red arrows at the bottom point upwards, indicating the direction of movement.</div> |

| Description                                                                                                                                                                                                                      | Picture Description                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>9</div> <div>Removing SMPS board.</div> <div><ul style="list-style-type: none"><li>Gently lift up (Bottom Left corner) to release the lock</li><li>Use both hands to hold the board and slide UP to release</li></ul></div> | <div><div><div>1</div></div><div><div>2</div></div></div> |
| <div>10</div> <div>Remove the speaker and function.</div>                                                                                                                                                                        | <div><div></div><div></div></div>                      |

| Description                                                                                                                                                                                                      | Picture Description                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <div>11</div> <div>Remove Bracket-Stand Link.</div> <div>Screws</div> <div> <b>6001-003016 x 3EA</b><br/>TORQUE : 4~5 lbf</div> |   |
| <div>12</div> <div>Completed disassembly.</div>                                                                                                                                                                  |  |



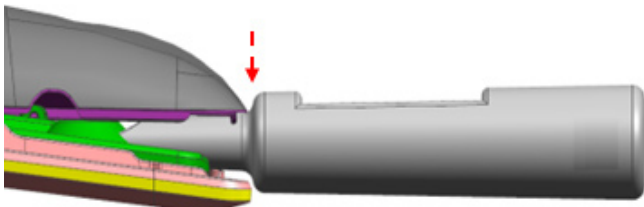
- Be careful during disassembly at Parting(must glove).
- Be careful during disassembly at corner ribs.
- Hooks can be damaged when disassembling is done by hands or tools which is bigger than Opening-Jig.
- Be careful the damage of Chassis-Front and Cover-Rear



NOTE

Reassembly procedures are in the reverse order of disassembly procedures.

Insert Opening-Jig as shown in the picture.



## 3-2. PTC Disassembly

### 3-2-1. Caution

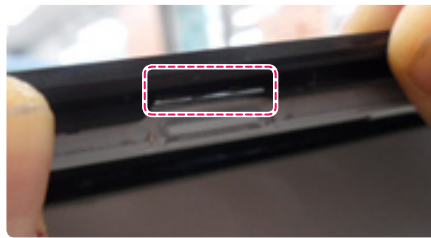


**CAUTION**

- Because A and B are assembled in HOOK (locking step) method, when the rotational force, This may result in damage to the PTC HOOK.
- Please use the JIG & turn off the HOOK LOCK as shown below.



when the rotational force



This may result in damage to the PTC HOOK.



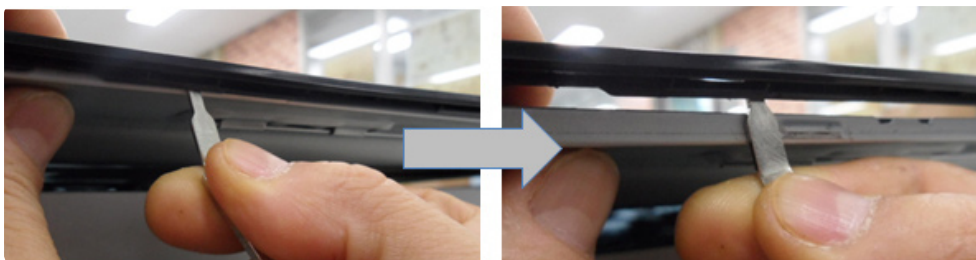
**CAUTION**

- Around the OPEN-CELL COF there is no HOOK, Do not insert JIG. It can damage the CoF of OPEN-CELL.



### 3-2-2. How to disassemble

1. Place OPEN-CELL Face up, and Unlock the HOOK using the JIG.

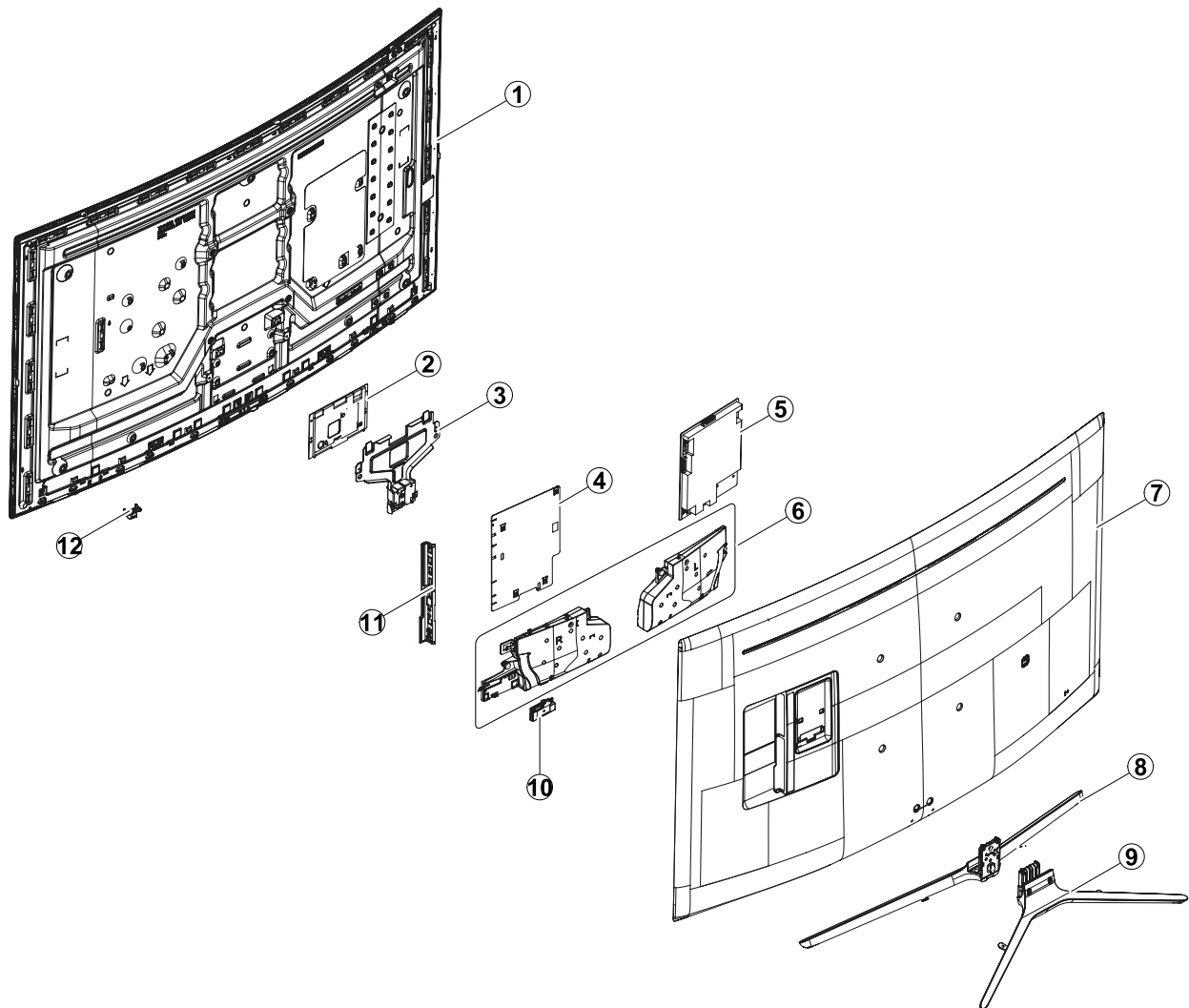


2. The bottom, Where there is no COF, there is a HOOK. Unlock the HOOK using the JIG.



## ANNEX. Exploded View & Part List [UN49K6250AFXZA FA01]

### 1-1. Exploded View



#### 1-1-1. Parts List

| No. | Code No.    | Description & Specification               | Q'ty | SA/SNA | Remark |
|-----|-------------|-------------------------------------------|------|--------|--------|
| 1   | BN95-02618C | PRODUCT LCD-SDC; CY-VK049BGLV3V/H,K630    | 1    | SA     |        |
| 2   | BN95-02676A | ASSY T CON; K6300 49inch,Hawk-FTs         | 1    | SA     |        |
| 3   | BN61-13287A | BRACKET-STAND LINK; 40K5500,EGI-SECC,T1.6 | 1    | SNA    |        |
| 4   | BN94-10793A | ASSY PCB MAIN; LEDTV 6K                   | 1    | SA     |        |
| 5   | BN44-00872A | DC VSS-PD BOARD; L55E1_KDY,AC/DC,105W,100 | 1    | SA     |        |
| 6   | BN96-39972A | ASSY SPEAKER P-FRONT; 6ohm,10,US only     | 1    | SA     |        |
| 7   | BN96-39743J | ASSY COVER P-REAR; 49K6200,PC+ABS+ED20    | 1    | SA     |        |
| 8   | BN96-40078B | ASSY STAND P-FRONT; 49K5500,ABS,BK0008,HB | 1    | SA     |        |
| 9   | BN96-40080B | ASSY STAND P-REAR; 49K5500,ABS,BK0008,HB  | 1    | SA     |        |
| 10  | BN59-01239A | NETWORK-WLAN CLIENT; WCK730B,USB 2.0,16P, | 1    | SA     |        |
| 11  | BN63-15481A | COVER-TERMINAL SIDE; 40K5500,HIPS,MOLD,HB | 1    | SA     |        |
| 13  | BN96-39802B | ASSY BOARD P-FUNCTION TACT; K6200/K5500/K | 1    | SA     |        |

## 2-1. Electrical Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
|       |              |             | UN49K6250AFXZA (FA01)                        |      |        |        |
| 1     | R001A        | BN90-07992A | ASSY COVER REAR;LEDTV 6K                     | 1    | SNA    |        |
| 0.2   | R001A        | BN96-39743J | ASSY COVER P-REAR;49K6200,PC+ABS+ED20%,V     | 1    | SA     |        |
| ..3   | CCM1         | BN63-02183G | SHEET-PROTECTION COVER;Rhcm,PE,T0.05,W11     | 1    | SNA    |        |
| ..3   |              | BN63-07556G | SHEET-COVER;TOC,PO,T0.068,W70mm,100M,ST-     | 3    | SNA    |        |
| ..3   | AC220        | BN63-15198A | COVER-CAP;55KS7500,ABS+PMMA,T0.1,HB,BK00     | 4    | SNA    |        |
| ..3   | R001         | BN63-15260A | COVER-REAR;49K6200,PC+ABS+ED20%,MOLD,<br>V-1 | 1    | SNA    |        |
| ..3   | AC220        | BN63-15933A | COVER-CAP;49K6200,PC+ABS+ED20%,MOLD,V-1,     | 2    | SNA    |        |
| ..3   |              | BN64-03519M | INLAY-TERMINAL SIDE;49K6200,PET,T0.125,W     | 1    | SNA    |        |
| ..3   |              | BN68-07835A | LABEL-STICKER LICENSE;40K5500,PET,0.125,     | 1    | SNA    |        |
| 1     |              | BN90-08023B | ASSY W/I;LEDTV 6K                            | 1    | SNA    |        |
| 0.2   |              | BN81-08159Z | A/S PART SET-ELEC W/I;LED TV ELEC spec-C     | 1    | SNA    |        |
| 0.2   |              | BN81-12184Z | A/S PART SET-MECH W/I;UK6300E,U49KM*         | 1    | SNA    |        |
| 1     | S001A        | BN90-08054A | ASSY STAND;LEDTV 6K                          | 1    | SNA    |        |
| 0.2   |              | BN96-40078B | ASSY STAND P-FRONT;49K5500,ABS,BK0008,HB     | 1    | SA     |        |
| ..3   |              | 6001-003168 | SCREW-MACHINE;CH,+,M3,L5,ZPC(BLK),SWRCH1     | 2    | SNA    |        |
| ..3   |              | 6021-000265 | NUT-HEXAGON;2C,M4,ZPC(YEL),SM20C             | 4    | SNA    |        |
| ..3   |              | 6902-002660 | BAG PE;HDPE/PE FOAM,T0.015/T0.5,W120,L20     | 1    | SNA    |        |
| ..3   |              | BN60-00162E | SPACER-FOAM;PE FOAM,ROLL,GRAY,T0.5,W20       | 1    | SNA    |        |
| ..3   |              | BN61-13416A | BRACKET-STAND BOTTOM<br>FRONT;49K5500,SM45C  | 1    | SNA    |        |
| ..3   |              | BN61-13421A | BRACKET-STAND NECK FRONT;40K5500,HGI,T4,     | 1    | SNA    |        |
| ...4  |              | BN61-13531A | STUD-PEM;40K5500,SUM24L,NATURAL              | 1    | SNA    |        |
| ..3   |              | BN61-13427A | GUIDE-STAND FRONT;40K5500,PC+GF20%,V-2,G     | 1    | SNA    |        |
| ..3   |              | BN61-14106A | BRACKET-STAND LINK FRONT;49K5500,EGI-SEC     | 1    | SNA    |        |
| ..3   |              | BN63-15242B | COVER-STAND BOTTOM<br>FRONT;49K5500,ABS,MOL  | 1    | SNA    |        |
| ..3   |              | BN63-15764A | SHEET-PU FOAM;40K5500,PU FOAM,T0.3,W57,L     | 1    | SNA    |        |
| ..3   |              | BN68-05603A | LABEL-E PASS;ART PAPER 90G,W/W               | 2    | SNA    |        |
| ..3   |              | BN95-02804A | ASSY COVER STAND SMT-FRONT TOP;K6200,49,     | 1    | SNA    |        |
| ...4  |              | BN63-15239A | COVER-STAND TOP FRONT;49K5500,PC+ABS,MOL     | 1    | SNA    |        |
| 0.2   |              | BN96-40080B | ASSY STAND P-REAR;49K5500,ABS,BK0008,HB      | 1    | SA     |        |
| ..3   |              | 6001-001114 | SCREW-MACHINE;FH,+,M4,L6,ZPC(BLK),SWRC       | 2    | SA     |        |
| ..3   | SCREW        | 6003-001238 | SCREW-TAPTYPE;FH,+,S,M4,L8,ZPC(BLK),SWRC     | 2    | SA     |        |
| ..3   | SCREW        | 6003-001334 | SCREW-TAPTYPE;BH,+,S,M4,L14,ZPC(BLK),SWR     | 4    | SA     |        |
| ..3   |              | 6902-002661 | BAG PE;HDPE/PE FOAM,T0.015/T0.5,W140,L20     | 1    | SNA    |        |
| ..3   |              | BN60-00162G | SPACER-FOAM;PE FOAM,ROLL,GRAY,T0.5,W30       | 0    | SNA    |        |
| ..3   |              | BN61-13419A | BRACKET-STAND BOTTOM REAR;K5500 49" 55",     | 1    | SNA    |        |
| ..3   |              | BN61-13424A | BRACKET-STAND NECK REAR;K5500 40" 43",HG     | 1    | SNA    |        |
| ..3   |              | BN61-13430A | GUIDE-STAND REAR;40K5500,PC+GF20%,V-2,GY     | 1    | SNA    |        |
| ..3   | RF01         | BN61-13520B | FOOT-RUBBER;40K5500,Si,GRAY,T3,W5 L5         | 4    | SNA    |        |
| ..3   |              | BN63-11118E | SHEET-PROTECTION COVER;STANDARD<br>ENCLOSUR  | 2    | SNA    |        |

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
| ..3   |              | BN63-15248B | COVER-STAND BOTTOM<br>REAR;49K5500,ABS,MOLD  | 1    | SNA    |        |
| ..3   |              | BN63-15764B | SHEET-PU FOAM;55K5500,PU FOAM,T0.3,W57,L     | 1    | SNA    |        |
| ..3   |              | BN95-02806A | ASSY COVER STAND SMT-REAR TOP;K6200,49,S     | 1    | SNA    |        |
| ...4  |              | BN63-15245A | COVER-STAND TOP<br>REAR;49K5500,PC+ABS,MOLD  | 1    | SNA    |        |
| ..3   |              | BN96-35528C | ASSY ACCESSORY-SCREW;40K5500,W/<br>W,EN,BN61 | 1    | SNA    |        |
| 1     | M0017        | BN91-17270A | ASSY CHASSIS;LEDTV 6K                        | 1    | SNA    |        |
| 0.2   | M0014        | BN94-10793A | ASSY PCB MAIN;LEDTV 6K                       | 1    | SA     |        |
| ..3   | AH020        | BN62-00821A | HEAT SINK;49K6200,A1050,6.3T,W127.6,L94.     | 1    | SNA    |        |
| ..3   |              | BN63-15481A | COVER-TERMINAL SIDE;40K5500,HIPS,MOLD,HB     | 1    | SA     |        |
| ..3   |              | BN97-09470A | ASSY DRM;MAC, MIRACAST HDCP                  | 1    | SNA    |        |
| ...4  |              | BN46-00109H | KEY CODE-CERTIFICATION;MAC,TV/AV,General     | 1    | SNA    |        |
| ...4  |              | BN46-00110P | KEY CODE-CERTIFICATION;MIRACAST(HDCP2.2)     | 1    | SNA    |        |
| ..3   |              | BN97-10642A | ASSY SMD;LED TV 6K                           | 1    | SNA    |        |
| ...4  | DS01A        | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO     | 1    | SA     |        |
| ...4  |              | 0403-001783 | DIODE-ZENER;BZB84-C6V2,5.8~6.6V,300mW,SO     | 3    | SNA    |        |
| ...4  |              | 0404-001404 | DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,     | 4    | SA     |        |
| ...4  |              | 0406-001200 | DIODE-TVS;RClamp0504F,6V,1MAV,TP             | 2    | SA     |        |
| ...4  |              | 0406-001628 | DIODE-TVS;AOZ8804ADI,6V,1MAV,5A,TP           | 1    | SA     |        |
| ...4  |              | 0406-001635 | DIODE-TVS;SMF5.0A,6.4V,6.7V,7V,200MAV,20     | 7    | SA     |        |
| ...4  |              | 0501-000445 | TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT     | 3    | SC     |        |
| ...4  |              | 0504-000126 | TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4.7K,S     | 1    | SA     |        |
| ...4  |              | 0505-002560 | FET-SILICON;AO6415,P,20V,-3.3A,0.15ohm,1     | 1    | SA     |        |
| ...4  |              | 0505-002598 | FET-SILICON;AP2317GN,P,20V,-4.2A,0.052oh     | 1    | SA     |        |
| ...4  |              | 0505-002893 | FET-SILICON;AO4801AS,P,30V,-5A,2W,SOIC-8     | 1    | SA     |        |
| ...4  |              | 0505-003397 | FET-SILICON;2N7002K,N,60V,0.38A,1.19ohm,     | 2    | SA     |        |
| ...4  |              | 0505-003507 | FET-SILICON;AO3424,N,30V,3.8A,1.4W,SOT-2     | 4    | SA     |        |
| ...4  |              | 0801-002780 | IC-CMOS LOGIC;74LVC1G17,SCHMITT-TRIGGER      | 1    | SA     |        |
| ...4  |              | 1001-001545 | IC-ANALOG MULTIPLEX;TS3USB221ERSER,R-PQF     | 1    | SA     |        |
| ...4  |              | 1103-001600 | IC-EEPROM;24C512C,512k,SOIC,8P,6.20mmX5.     | 1    | SA     |        |
| ...4  |              | 1105-002681 | IC-DDR3 SDRAM;H5TQ4G63CFR,DDR3 1866,4Gbi     | 3    | SNA    |        |
| ...4  |              | 1201-003690 | IC-AUDIO AMP;TAS5747PHPR,QFP,48P,DUAL,PL     | 1    | SA     |        |
| ...4  |              | 1203-004364 | IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,     | 1    | SA     |        |
| ...4  |              | 1203-007018 | IC-DC/DC CONVERTER;TPS54821RHL,QFN,14,3.     | 1    | SA     |        |
| ...4  |              | 1203-007238 | IC-PWM CONTROLLER;TPS54427,DDA,8P,4.8x3.     | 1    | SNA    |        |
| ...4  |              | 1203-007700 | IC-DC/DC CONVERTER;TPS54527DDAR,DDA,8P,5     | 1    | SA     |        |
| ...4  |              | 1203-008105 | IC-POS.FIXED REG.;S-13A1D33-E800,HSOP,8      | 1    | SNA    |        |
| ...4  |              | 1203-008118 | IC-DC/DC CONVERTER;AOZ3013PI,SO-8,8,4.96     | 2    | SA     |        |
| ...4  |              | 1203-008183 | IC-DC/DC CONVERTER;AOZ3015PI-1,EPAD SO-8     | 1    | SA     |        |
| ...4  |              | 1203-008392 | IC-VOL. DETECTOR;S-6414AAB-L800X,TSOT-23     | 1    | SA     |        |
| ...4  |              | 1203-008393 | IC-DDR TERMINATION REG.;AP2303MTR-G1-89,     | 1    | SA     |        |
| ...4  |              | 1203-008454 | IC-DC/DC CONVERTER;TPS56528,HSOP8,8,4,89     | 1    | SA     |        |
| ...4  |              | 1204-003586 | IC-DECODER;SDP1415,PBGA,631P,23x23mm,PLA     | 1    | SA     |        |
| ...4  |              | 1205-004983 | IC-SWITCH;BD82032FVJ,TSSOP-B8J,8P,3.0x4.     | 2    | SA     |        |
| ...4  |              | 1205-005537 | IC-REPEATER;TCA9517,VSSOP,8P,3.00x3.00mm     | 3    | SA     |        |
| ...4  |              | 1405-001271 | VARIATOR;35V,20Vdc,5A,1.0x0.5mm,TP,100V,     | 15   | SA     |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 2007-000137 | R-CHIP;2Kohm,5%,1/16W,TP,1005            | 16   | SNA    |        |
| ...4  |              | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005          | 57   | SA     |        |
| ...4  |              | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005           | 21   | SNA    |        |
| ...4  |              | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005             | 35   | SA     |        |
| ...4  |              | 2007-000173 | R-CHIP;22ohm,5%,1/16W,TP,1005            | 1    | SA     |        |
| ...4  |              | 2007-000174 | R-CHIP;47ohm,5%,1/16W,TP,1005            | 26   | SA     |        |
| ...4  |              | 2007-000932 | R-CHIP;470ohm,5%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-001116 | R-CHIP;680ohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-001125 | R-CHIP;68Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-001288 | R-CHIP;18ohm,5%,1/16W,TP,1005            | 4    | SA     |        |
| ...4  |              | 2007-001292 | R-CHIP;33ohm,5%,1/16W,TP,1005            | 5    | SA     |        |
| ...4  |              | 2007-007107 | R-CHIP;100Kohm,1%,1/16W,TP,1005          | 13   | SNA    |        |
| ...4  |              | 2007-007132 | R-CHIP;15Kohm,1%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-007133 | R-CHIP;300ohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007134 | R-CHIP;39Kohm,1%,1/16W,TP,1005           | 2    | SA     |        |
| ...4  |              | 2007-007135 | R-CHIP;18Kohm,1%,1/16W,TP,1005           | 2    | SNA    |        |
| ...4  |              | 2007-007136 | R-CHIP;4.7Kohm,1%,1/16W,TP,1005          | 2    | SNA    |        |
| ...4  |              | 2007-007137 | R-CHIP;1.2Kohm,1%,1/16W,TP,1005          | 4    | SA     |        |
| ...4  |              | 2007-007138 | R-CHIP;27Kohm,1%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-007142 | R-CHIP;10Kohm,1%,1/16W,TP,1005           | 22   | SA     |        |
| ...4  |              | 2007-007306 | R-CHIP;100ohm,1%,1/16W,TP,1005           | 19   | SNA    |        |
| ...4  |              | 2007-007307 | R-CHIP;150ohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007309 | R-CHIP;12Kohm,1%,1/16W,TP,1005,T0.35     | 3    | SA     |        |
| ...4  |              | 2007-007311 | R-CHIP;22Kohm,1%,1/16W,TP,1005           | 6    | SA     |        |
| ...4  |              | 2007-007312 | R-CHIP;20Kohm,1%,1/16W,TP,1005           | 2    | SA     |        |
| ...4  |              | 2007-007313 | R-CHIP;6.8Kohm,1%,1/16W,TP,1005          | 2    | SA     |        |
| ...4  |              | 2007-007317 | R-CHIP;2.2Kohm,1%,1/16W,TP,1005          | 1    | SA     |        |
| ...4  |              | 2007-007318 | R-CHIP;1Kohm,1%,1/16W,TP,1005            | 21   | SA     |        |
| ...4  |              | 2007-007470 | R-CHIP;7.5Kohm,1%,1/16W,TP,1005          | 1    | SNA    |        |
| ...4  |              | 2007-007488 | R-CHIP;75Kohm,1%,1/16W,TP,1005           | 1    | SNA    |        |
| ...4  |              | 2007-007528 | R-CHIP;1.5Kohm,1%,1/16W,TP,1005          | 1    | SA     |        |
| ...4  |              | 2007-007587 | R-CHIP;3.6Kohm,1%,1/16W,TP,1005          | 1    | SNA    |        |
| ...4  |              | 2007-007767 | R-CHIP;200ohm,1%,1/16W,TP,1005           | 7    | SA     |        |
| ...4  |              | 2007-007861 | R-CHIP;62Kohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007942 | R-CHIP;1Mohm,1%,1/16W,TP,1005            | 1    | SNA    |        |
| ...4  |              | 2007-008015 | R-CHIP;75ohm,1%,1/16W,TP,1005            | 14   | SA     |        |
| ...4  |              | 2007-008275 | R-CHIP;30Kohm,1%,1/16W,TP,1005           | 3    | SNA    |        |
| ...4  |              | 2007-008298 | R-CHIP;49.9ohm,1%,1/16W,TP,1005          | 4    | SA     |        |
| ...4  |              | 2007-008429 | R-CHIP;499ohm,1%,1/16W,TP,1005           | 1    | SNA    |        |
| ...4  |              | 2007-008485 | R-CHIP;22ohm,1%,1/16W,TP,1005            | 9    | SC     |        |
| ...4  |              | 2007-008779 | R-CHIP;0ohm,1%,1/16W,TP,1005             | 4    | SA     |        |
| ...4  |              | 2007-009117 | R-CHIP;49.9Kohm,1%,1/16W,TP,1005         | 1    | SA     |        |
| ...4  |              | 2007-009777 | R-CHIP;4.99Kohm,1%,1/16W,TP,1005         | 1    | SA     |        |
| ...4  |              | 2011-001449 | R-NETWORK;22ohm,5%,1/16W,L,4P,TP,1.0x1.0 | 3    | SA     |        |
| ...4  |              | 2011-001497 | R-NETWORK;470ohm,5%,1/16W,L,CHIP,4P,TP,1 | 1    | SNA    |        |
| ...4  | AD480        | 2203-000278 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005  | 2    | SA     |        |
| ...4  | AD480        | 2203-000359 | C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5 | 3    | SA     |        |

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  | AD480        | 2203-000386 | C-CER,CHIP;0.015nF,5%,50V,C0G,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000489 | C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005     | 3    | SA     |        |
| ...4  | AD480        | 2203-000585 | C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005    | 3    | SA     |        |
| ...4  | AD480        | 2203-000627 | C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005    | 2    | SNA    |        |
| ...4  | AD480        | 2203-000714 | C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005     | 1    | SA     |        |
| ...4  | AD480        | 2203-000812 | C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005    | 5    | SA     |        |
| ...4  | AD480        | 2203-000854 | C-CER,CHIP;0.039nF,5%,50V,C0G,TP,1005    | 1    | SA     |        |
| ...4  | AD480        | 2203-000940 | C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000995 | C-CER,CHIP;0.047nF,5%,50V,C0G,TP,1005    | 1    | SA     |        |
| ...4  | AD480        | 2203-002285 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1005      | 9    | SNA    |        |
| ...4  | AD480        | 2203-003019 | C-CER,CHIP;8.2nF,10%,50V,X7R,TP,1005     | 2    | SNA    |        |
| ...4  | AD480        | 2203-005083 | C-CER,CHIP;220nF,10%,50V,X7R,TP,1608,0.8 | 6    | SA     |        |
| ...4  | AD480        | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1608     | 6    | SA     |        |
| ...4  | AD480        | 2203-005968 | C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5 | 4    | SNA    |        |
| ...4  | AD480        | 2203-006048 | C-CER,CHIP;100nF,10%,10V,X7R,TP,1005     | 61   | SA     |        |
| ...4  | AD480        | 2203-006126 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1005      | 3    | SNA    |        |
| ...4  | AD480        | 2203-006158 | C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,T0. | 196  | SA     |        |
| ...4  | AD480        | 2203-006257 | C-CER,CHIP;470nF,10%,6.3V,X5R,TP,1005,0. | 1    | SNA    |        |
| ...4  | AD480        | 2203-006824 | C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608    | 4    | SNA    |        |
| ...4  | AD480        | 2203-006838 | C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005   | 11   | SA     |        |
| ...4  | AD480        | 2203-006890 | C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608  | 54   | SNA    |        |
| ...4  | AD480        | 2203-007176 | C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1 | 9    | SNA    |        |
| ...4  | AD480        | 2203-007240 | C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608( | 67   | SA     |        |
| ...4  | AD480        | 2203-007269 | C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2 | 14   | SA     |        |
| ...4  | AD480        | 2203-007306 | C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1 | 35   | SNA    |        |
| ...4  | AD480        | 2203-007513 | C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0 | 22   | SA     |        |
| ...4  | AD480        | 2203-007544 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,0.5 | 14   | SA     |        |
| ...4  |              | 2703-000158 | INDUCTOR-SMD;1uH,10%,0.4Ohm,50mA,45,Mult | 1    | SA     |        |
| ...4  |              | 2703-000213 | INDUCTOR-SMD;470nH,10%,1.35Ohm,35mA,15,M | 1    | SA     |        |
| ...4  |              | 2703-001938 | INDUCTOR-SMD;56nH,5%,1005,1.5Ohm,200mA,1 | 3    | SA     |        |
| ...4  |              | 2703-003937 | INDUCTOR-SMD;1uH,20%,7.0x6.47x3.0mm,0.00 | 1    | SA     |        |
| ...4  |              | 2703-004724 | INDUCTOR-SMD;8.2uH,20%,4T,0.072Ohm,2300m | 4    | SA     |        |
| ...4  |              | 2703-005191 | INDUCTOR-SMD;1.5uH,20%,4.5,0.02Ohm,5300m | 2    | SA     |        |
| ...4  |              | 2703-005192 | INDUCTOR-SMD;4.7uH,20%,4.5,0.036Ohm,4200 | 2    | SA     |        |
| ...4  |              | 2703-005194 | INDUCTOR-SMD;3.3uH,20%,4.5,0.03Ohm,4500m | 1    | SA     |        |
| ...4  |              | 2801-004021 | CRYSTAL-SMD;24.576MHz,20ppm,28-AAN,12pF, | 1    | SA     |        |
| ...4  |              | 3301-001364 | BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz, | 7    | SNA    |        |
| ...4  |              | 3701-001949 | CONNECTOR-HDMI;19P,A,FEMALE,AU,0.5mm,BLK | 3    | SA     |        |
| ...4  |              | 3707-001104 | CONNECTOR-OPTICAL;ANGLE,SPDIF            | 1    | SA     |        |
| ...4  | EH01         | 3711-005477 | HEADER-BOARD TO CABLE;BOX,4P,1R,2.0mm,SM | 1    | SA     |        |
| ...4  |              | 3711-007585 | CONNECTOR-HEADER;BOX,4P,1R,2.5mm,ANGLE,S | 1    | SA     |        |
| ...4  |              | 3711-007776 | CONNECTOR-HEADER;BOX,8P,1R,1.25mm,SMD-A, | 2    | SA     |        |
| ...4  | EH01         | 3711-008859 | HEADER-BOARD TO CABLE;BOX,12P,2R,2mm,ANG | 1    | SA     |        |
| ...4  |              | 3711-009090 | CONNECTOR-HEADER;BOX,16P,1R,1.25mm,SMD-A | 1    | SA     |        |
| ...4  |              | 3722-003199 | JACK-MODULAR;8P/8C,Y,ANGLE,NONE,AU,1PORT | 1    | SA     |        |
| ...4  |              | 3722-003457 | JACK-USB;4P/1C,NI,BLK,ANGLE,A,2.0,13.1x1 | 2    | SA     |        |
| ...4  |              | 3722-003814 | JACK-PHONE;1P/7C,NI/SN,YEL,ANGLE,3.5PI,1 | 1    | SA     |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification               | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|-------------------------------------------|------|--------|--------|
| ...4  | JACK         | 3722-003873 | JACK-PHONE;1P/7C,AU/SN,BLU,ANGLE,3.5PI,1  | 1    | SA     |        |
| ...4  |              | 6302-001376 | GASKET-SMD;;;CONDUCTIVE FABRIC,T14,W43,L  | 8    | SNA    |        |
| ...4  |              | BN40-00321A | TUNER-DTV AIR CABLE;DTVS20EH6A,DTVS20EH6  | 1    | SA     |        |
| ...4  |              | BN41-02534A | PCB-MAIN;K5500/6200/6300,FR-4,4L,1.2T,19  | 1    | SNA    |        |
| ...4  | CB07         | BN61-13312B | BRACKET-PCB;55KS8000,SK5,0.3,13.7,11.4,S  | 4    | SNA    |        |
| ...4  |              | BN97-10911A | ASSY MICOM-MAIN;T-HKMFKAKUC,UWK60,THGBMB  | 1    | SNA    |        |
| ...5  |              | 1107-002341 | IC-EMMC;THGBMBG5D1KBAIT,4GB,BGA,153P,11x  | 1    | SA     |        |
| ...4  |              | BN97-10913A | ASSY MICOM-SUB;HMMICOM_16_FHD,UWK60,GD25  | 1    | SNA    |        |
| ...5  |              | 1107-002467 | IC-NOR FLASH;GD25Q41BSIGY,4Mbit,SOP,8P,5  | 1    | SA     |        |
| 1     |              | BN91-17302A | ASSY SHIELD;LEDTV 6K                      | 1    | SNA    |        |
| 0.2   | SCREW        | 6001-003016 | SCREW-MACHINE;PWH,+,M3.0,L5.0,ZPC(WHT),S  | 5    | SA     |        |
| 0.2   |              | BN02-00102K | TAPE-FILAMENT;FILAMENT,T0.15,W25,ROLL,WH  | 0    | SNA    |        |
| 0.2   |              | BN39-02211A | LEAD CONNECTOR-SUB ASSY;55KS9000,UL21451  | 1    | SA     |        |
| 0.2   |              | BN39-02217A | LEAD CONNECTOR-POWER;UN50KU6000,UL21016,  | 1    | SA     |        |
| 0.2   |              | BN39-02223C | LEAD CONNECTOR-SUB ASSY;55K6200,UL21016,  | 1    | SA     |        |
| 0.2   |              | BN44-00872A | DC VSS-PD BOARD;L55E1_KDY,AC/DC,105W,100  | 1    | SA     |        |
| 0.2   | WIFI         | BN59-01239A | NETWORK-WLAN CLIENT;WCK730B,USB 2.0,16P,  | 1    | SA     |        |
| 0.2   | CB18         | BN61-13287A | BRACKET-STAND LINK;40K5500,EGI-SECC,T1.6  | 1    | SNA    |        |
| 0.2   | RB01         | BN63-15932A | COVER-BOTTOM;49K6200,PC+ABS+ED20%,MOL D,V | 1    | SNA    |        |
| 0.2   |              | BN96-39802B | ASSY BOARD P-FUNCTION TACT;K6200/K5500/K  | 1    | SA     |        |
| 0.2   |              | BN96-39972A | ASSY SPEAKER P-FRONT;6ohm,10,US only      | 1    | SA     |        |
| 0.2   |              | BN96-40209A | FFC CABLE;49K6200,Wrinkle,L350,51P        | 1    | SA     |        |
| 1     |              | BN92-19839A | ASSY BOX;LEDTV 6K                         | 1    | SNA    |        |
| 0.2   |              | BH68-00697A | LABEL BOX;ALL,ART,90g,W60,L100,WHT,NO SI  | 1    | SNA    |        |
| 0.2   |              | BN69-13709Q | BOX UNIT;49K6250,CB,DW2,F1,L1180,W162,H6  | 1    | SNA    |        |
| 1     |              | BN92-19869A | ASSY LABEL;LEDTV 6K                       | 1    | SNA    |        |
| 0.2   |              | BN68-05050A | LABEL-RATING;ALL MODEL,SS,PE,T0.05,W93,L  | 1    | SNA    |        |
| 0.2   |              | BN68-07854M | LABEL-ENERGY;UN49K6250AFXZA,PET,T0.1,38,  | 1    | SNA    |        |
| 0.2   |              | BN68-07909A | LEAFLET-QUICK SETUP GUIDE;K6250,ZA,W/P,A  | 1    | SNA    |        |
| 0.2   |              | BN74-00053G | TAPE-PAPER;PAPER,3M2307,0.14T,W10,60M,WH  | 0    | SNA    |        |
| 1     | ACCE1        | BN92-19898A | ASSY ACCESSORY;LEDTV 6K                   | 1    | SNA    |        |
| 0.2   |              | BN96-39494A | ASSY ACCESSORY-MANUAL CABLE;UK6M          | 1    | SNA    |        |
| ..3   | T0268        | 3903-001117 | CBF-POWER CORD;DT,USA,Angle,2P(C7),125V,  | 1    | SA     |        |
| ..3   |              | 4301-000101 | BATTERY-ALKALINE;1.5V,1650mAh,LR6,14.5x5  | 2    | SNA    |        |
| ..3   |              | 6902-001962 | BAG PE;LDPE,BIOBASED,T0.05,W400,L300,TRP  | 1    | SNA    |        |
| ..3   | EC03         | BN39-02189A | GENDER CABLE;DC to RCA Cable,3P,L100,UL2  | 1    | SA     |        |
| ..3   | EC03         | BN39-02190A | GENDER CABLE;DC to RCA Cable,2P,L100,UL2  | 1    | SA     |        |
| ..3   |              | BN59-01260A | REMOCON-SMART CONTROL;2016 TV,Samsung,13  | 1    | SA     |        |
| ..3   |              | BN68-04972E | LEAFLET-REGULATORY GUIDE;ALL,SAMSUNG,W/W  | 1    | SNA    |        |
| ..3   |              | BN68-05723A | LABEL-ACCESSORY;ALL MODELS,YUPO,T0.2,W20  | 1    | SNA    |        |
| ..3   |              | BN68-07908A | MANUAL USERS;K6250,ZA,W/P,00              | 1    | SNA    |        |
| ..3   |              | BN96-40152A | ASSY HOLDER P-CABLE;65KS7500,ABS,BK0007,  | 1    | SNA    |        |
| ...4  |              | BN61-04692A | ADHESIVE-AA;SHEET,CLEAR,C043              | 0    | SNA    |        |

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | BN61-05704A | TAPE-DOUBLE FACE;T1.1,W8,Dark Gray,3M #4 | 0    | SNA    |        |
| ...4  | AH089        | BN61-13777A | HOLDER-CABLE;55KS7500,ABS,T15,BK0007,HB, | 1    | SNA    |        |
| ...4  | AS080        | BN63-07556W | SHEET-PROTECTION COVER;F-LED,PO,W12,ROLL | 0    | SNA    |        |
| ..3   | EH03A        | BN96-40460A | ASSY HOLDER P-RING;55KS7500,ABS,BLACK,V- | 1    | SNA    |        |
| ...4  |              | 6902-001404 | BAG PE;LDPE,T0.05,W80,L100,TRP,N         | 1    | SNA    |        |
| ...4  |              | BN61-13518A | HOLDER-WALL RING;55KS7500,ABS,MOLD,BK000 | 4    | SA     |        |
| 1     |              | BN92-19929A | ASSY P/MATERIAL;LEDTV 6K                 | 1    | SNA    |        |
| 0.2   |              | 6902-001611 | BAG ROLL;HDPE/PE FOAM,T0.5/T0.015,W1500, | 1    | SNA    |        |
| 0.2   |              | 6922-000013 | BAND;PP,W18,L2300/L2900,TRP              | 1    | SNA    |        |
| 0.2   |              | BH69-00418A | WRAP;762,1828M,SAMEX FACTORY             | 2    | SNA    |        |
| 0.2   |              | BN02-00319B | TAPE-OPP;OPP,T0.05,W75,L800m,CLEAR       | 3    | SNA    |        |
| 0.2   | AS080        | BN63-07229A | SHEET-PROTECTION COVER;rose70",PET,T0.05 | 1    | SNA    |        |
| 0.2   |              | BN68-02422B | LABEL-WARNING;ALL,ART,T0.05,W240,L100,Wh | 1    | SNA    |        |
| 0.2   |              | BN69-12806A | PACKING ANGLE;40J6400,PAPER              | 1    | SNA    |        |
| 0.2   |              | BN69-13622D | PAD-CUSHION FRONT;49K6200,CB,DW2+EPE,W60 | 1    | SNA    |        |
| 0.2   |              | BN69-13650A | CUSHION-SET;49K6200,EPS,16.7g/l,WHT,FLAT | 1    | SNA    |        |
| 0.2   |              | BN69-13652A | CUSHION-SET SIDE;49K6200,EPS,16.7g/l,WHT | 1    | SNA    |        |
| 1     |              | BN95-02618C | PRODUCT LCD-SDC;CY-VK049BGLV3V/H,K6300,D | 1    | SA     |        |
| 0.2   | SCREW        | 6001-002757 | SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1 | 4    | SA     |        |
| 0.2   |              | BN68-05595A | LABEL-STICKER;ART 100G,T0.2,W80X23,WHITE | 1    | SNA    |        |
| 0.2   |              | BN74-00053E | TAPE-PAPER;PAPER,3M2307,0.14T,W20,50m,WH | 0    | SNA    |        |
| 0.2   |              | BN90-08208A | ASSY MISC-BLU;Y16,LCM                    | 1    | SNA    |        |
| ..3   |              | BN61-13752A | LGP;16Y_K5500_49INCH_LGP,PMMA,Left LED,2 | 1    | SNA    |        |
| ..3   |              | BN61-13753A | OPTICAL SHEET-REFLECTOR;16Y_K5500_49INCH | 1    | SNA    |        |
| ..3   |              | BN61-13959A | OPTICAL SHEET-DIFFUSER;16Y_K5500_49INCH_ | 1    | SNA    |        |
| ..3   |              | BN61-13964A | OPTICAL SHEET-COMPLEX;16Y_K5500_49INCH_O | 1    | SNA    |        |
| ..3   |              | BN96-39512A | ASSY LED BAR P;49 K6200(SDC),ALUMINUM,70 | 1    | SNA    |        |
| ..3   |              | BN96-39690A | ASSY CHASSIS REAR P;49K6200,EGI SECC AG+ | 1    | SNA    |        |
| ...4  |              | BN02-00102B | TAPE-FILAMENT;#8917,0.15,25,50,WHITE     | 0    | SNA    |        |
| ...4  |              | BN02-00499A | TAPE THERMAL;49K6200,ACRYL,T0.2,W19.2,L6 | 1    | SNA    |        |
| ...4  |              | BN39-02181A | LEAD CONNECTOR-BLU;55 K6200,UL21016,12P, | 1    | SNA    |        |
| ...4  |              | BN60-01461A | SPACER-SILICONE;49K6200,Si,L6,GRAY,T4.5, | 2    | SNA    |        |
| ...4  |              | BN61-08235A | HOLDER-LGP;SNB,SWRCH10A,BLACK,PRESS      | 1    | SNA    |        |
| ...4  |              | BN61-11982B | HOLDER-WALL RIVET;55KS7000,CR-SPCC,EXTRU | 4    | SNA    |        |
| ...4  |              | BN61-13459A | FRAME-MIDDLE TOP LEFT;49K6200,TPV,HB,BK0 | 1    | SNA    |        |
| ...4  |              | BN61-13460A | FRAME-MIDDLE TOP RIGHT;49K6200,TPV,HB,BK | 1    | SNA    |        |
| ...4  |              | BN61-13461B | FRAME-MIDDLE BOTTOM LEFT;49K6200,TPV,HB, | 1    | SNA    |        |
| ...4  |              | BN61-13462B | FRAME-MIDDLE BOTTOM RIGHT;49K6200,TPV,HB | 1    | SNA    |        |
| ...4  |              | BN61-13557A | BRACKET-WIRE;KS7000,SW-C,1,60,SILVER     | 4    | SA     |        |
| ...4  |              | BN61-13557F | BRACKET-WIRE;KS7000,SW-C,1,SILVER,ZINC P | 4    | SA     |        |
| ...4  |              | BN63-15531A | INSULATOR-SMPS;40K5500,PC,BLACK,L159.95, | 1    | SNA    |        |
| ...4  | CC04         | BN64-03414A | CHASSIS-REAR;EGI-SECC,SECC-AG            | 1    | SNA    |        |
| ..3   |              | BN96-40895A | ASSY FRAME P-MIDDLE LEFT;49K6200,STS304, | 1    | SNA    |        |
| ...4  |              | BN60-01430A | SPACER-PET;49K6200,PET,L600.5,GRAY,T0.06 | 2    | SNA    |        |
| ...4  |              | BN61-14146A | FRAME-MIDDLE LEFT;49K6200,STS304,PRESS,N | 1    | SNA    |        |
| 0.2   | TCON         | BN95-02676A | ASSY T CON;K6300 49inch,Hawk-FTs         | 1    | SA     |        |
| ..3   |              | BN02-00417A | TAPE THERMAL;Hawk-FTs,PET,W65,L120,BLACK | 1    | SNA    |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
| ..3   | T0527        | BN68-00513A | LABEL-E PASS;ALL MODEL,VW,YUPO,W50,L15,W     | 2    | SNA    |        |
| ..3   |              | BN97-10798A | ASSY SMD;K6500,Hawk-FTs SDC MJC Curved 4     | 1    | SNA    |        |
| ...4  |              | 0202-001976 | SOLDER-CREAM;LST-309M-K21,20~38um,96.5Sn     | 4    | SNA    |        |
| ...4  |              | 0403-000489 | DIODE-ZENER;MMSZ5228B,3.705~4.095V,500mW     | 6    | SA     |        |
| ...4  |              | 0403-001831 | DIODE-ZENER;KDZ12B,12~13.5V,1000mW,SOD-1     | 1    | SA     |        |
| ...4  |              | 0403-002014 | DIODE-ZENER;KDZ16B,16.2~18.3V,1000mW,SOD     | 2    | SNA    |        |
| ...4  |              | 0404-001640 | DIODE-SCHOTTKY;SS1060HEWS,60V,1000mA,S<br>OD | 1    | SA     |        |
| ...4  |              | 0404-001643 | DIODE-SCHOTTKY;B360A,60V,3000mA,SMA,TP       | 1    | SA     |        |
| ...4  |              | 0406-001689 | DIODE-TVS;SMH14A,15.6V,17.9V,1MAV,40A,TP     | 1    | SA     |        |
| ...4  |              | 0406-001712 | DIODE-TVS;P4SMAJ30A,33.3V,36.8V,1MAV,40A     | 1    | SNA    |        |
| ...4  |              | 0406-001745 | DIODE-TVS;P4SMAFJ18A-HAF,20V,21.5V,23.3V     | 1    | SNA    |        |
| ...4  |              | 0505-002660 | FET-SILICON;Si2308BDS,N,60V,2.3A,0.156oh     | 1    | SNA    |        |
| ...4  |              | 0505-003224 | FET-SILICON;AO6405,P,30V,-5A,0.052ohm,2W     | 1    | SA     |        |
| ...4  | EL02         | 0601-002037 | LED;SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470     | 2    | SA     |        |
| ...4  |              | 0801-002345 | IC-CMOS LOGIC;7S04,INVERTER,SOT-353,5P,2     | 1    | SA     |        |
| ...4  |              | 0801-003580 | IC-CMOS LOGIC;TC7WB66CFK,SSOP,8P,2.0X2.3     | 3    | SA     |        |
| ...4  |              | 1105-002274 | IC-DDR3 SDRAM;K4B1G1646G-BCMA,DDR3 1866,     | 1    | SNA    |        |
| ...4  |              | 1201-002779 | IC-OP AMP;IML7814HS-HF,TSSOP,TP,14P,5x4.     | 1    | SA     |        |
| ...4  |              | 1203-006130 | IC-POSIFIXED REG.;S-1172B25-U5T1G,SOT-8      | 1    | SA     |        |
| ...4  |              | 1203-007956 | IC-DC/DC CONVERTER;RT6917,QFN,48P,6x6x1m     | 1    | SNA    |        |
| ...4  |              | 1203-008102 | IC-POSIFIXED REG.;S-13A1D12-E800,HSOP,8      | 1    | SNA    |        |
| ...4  |              | 1203-008104 | IC-POSIFIXED REG.;S-13A1D18-E800,HSOP,8      | 3    | SNA    |        |
| ...4  |              | 1203-008258 | IC-DC/DC CONVERTER;SY8106RAC,QFN,20,3x3x     | 1    | SA     |        |
| ...4  |              | 1203-008667 | IC-DC/DC CONVERTER;RT6936A,WQFN,40,6x6mm     | 1    | SA     |        |
| ...4  |              | 1204-003557 | IC-VIDEO PROCESS;SDP1401,PBGAH,553P,23x2     | 1    | SA     |        |
| ...4  |              | 1404-001731 | THERMISTOR-NTC;33Kohm,4050K,1mW/C,TP,1.6     | 1    | SNA    |        |
| ...4  |              | 1405-001381 | VARISTOR;11V,8Vdc,30A,1.6x0.8mm,TP,25V,5     | 9    | SA     |        |
| ...4  |              | 1405-001382 | VARISTOR;24.5V,16VDC,120A,2.0x1.25mm,TP,     | 2    | SA     |        |
| ...4  |              | 1405-001391 | VARISTOR;32V,5Vdc,5A,2.1x1.25mm,TP,80V,1     | 6    | SA     |        |
| ...4  |              | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608                | 5    | SA     |        |
| ...4  |              | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608               | 3    | SA     |        |
| ...4  |              | 2007-000063 | R-CHIP;150Kohm,1%,1/10W,TP,1608              | 1    | SNA    |        |
| ...4  |              | 2007-000067 | R-CHIP;15Kohm,1%,1/10W,TP,1608               | 3    | SNA    |        |
| ...4  |              | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608                 | 8    | SA     |        |
| ...4  |              | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608                | 1    | SA     |        |
| ...4  |              | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608                | 10   | SA     |        |
| ...4  |              | 2007-000138 | R-CHIP;100ohm,5%,1/16W,TP,1005               | 10   | SA     |        |
| ...4  |              | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005                | 4    | SA     |        |
| ...4  |              | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005               | 4    | SA     |        |
| ...4  |              | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005              | 1    | SA     |        |
| ...4  |              | 2007-000172 | R-CHIP;10ohm,5%,1/16W,TP,1005                | 6    | SNA    |        |
| ...4  |              | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608                | 1    | SA     |        |
| ...4  |              | 2007-000336 | R-CHIP;120Kohm,1%,1/10W,TP,1608              | 1    | SA     |        |
| ...4  |              | 2007-000455 | R-CHIP;18Kohm,1%,1/10W,TP,1608               | 1    | SA     |        |
| ...4  |              | 2007-000509 | R-CHIP;2.4Kohm,1%,1/10W,TP,1608              | 1    | SA     |        |
| ...4  |              | 2007-000516 | R-CHIP;2.7Kohm,1%,1/10W,TP,1608              | 2    | SA     |        |

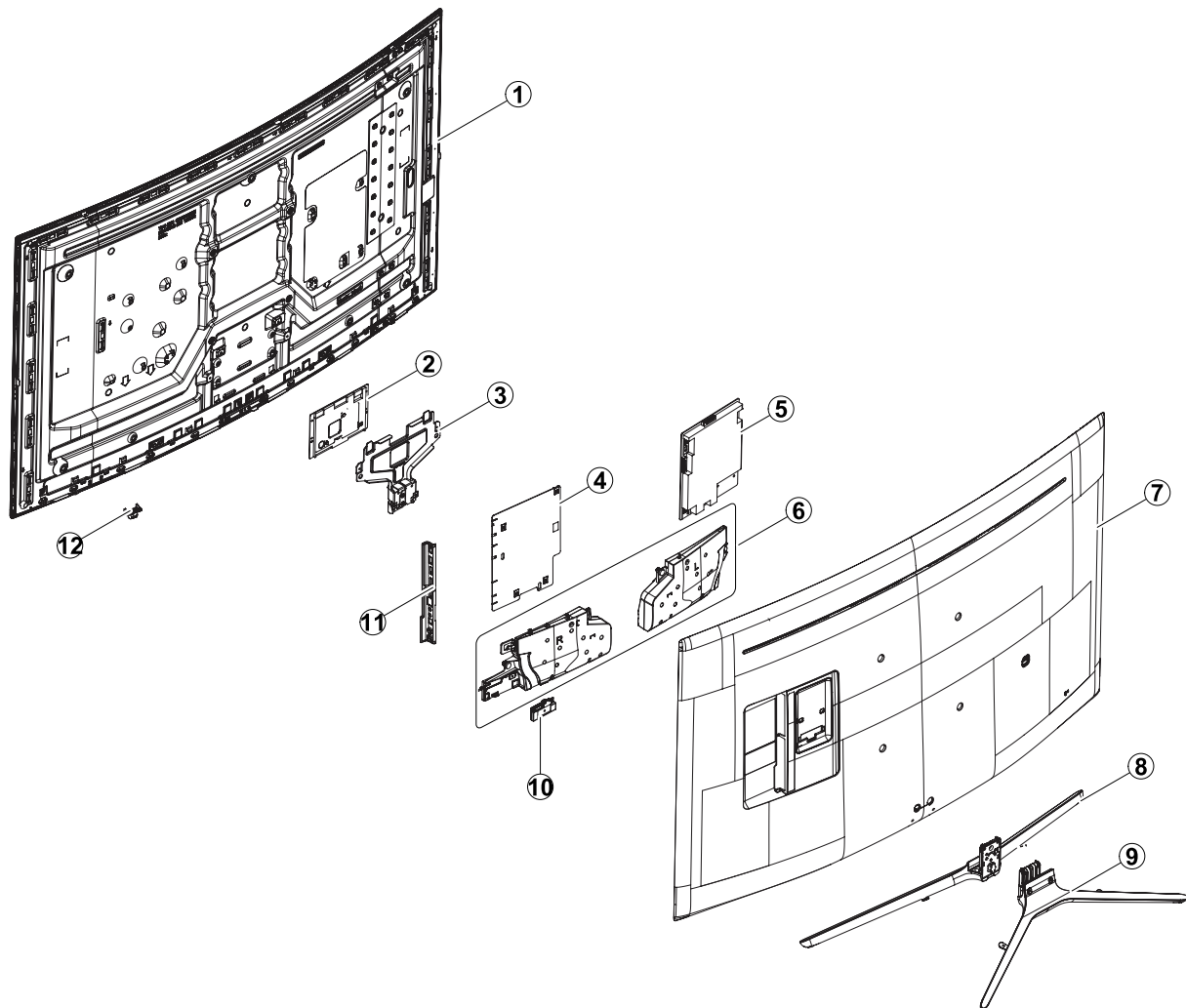
| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 2007-000536 | R-CHIP;200ohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-000614 | R-CHIP;24Kohm,1%,1/10W,TP,1608           | 1    | SNA    |        |
| ...4  |              | 2007-000669 | R-CHIP;2Kohm,1%,1/10W,TP,1608,T0.45      | 1    | SNA    |        |
| ...4  |              | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608          | 3    | SNA    |        |
| ...4  |              | 2007-000962 | R-CHIP;5.1Kohm,1%,1/10W,TP,1608          | 2    | SA     |        |
| ...4  |              | 2007-001175 | R-CHIP;8.2Kohm,1%,1/10W,TP,1608          | 1    | SA     |        |
| ...4  |              | 2007-001206 | R-CHIP;82Kohm,1%,1/10W,TP,1608           | 1    | SNA    |        |
| ...4  |              | 2007-001298 | R-CHIP;51ohm,5%,1/16W,TP,1005            | 7    | SNA    |        |
| ...4  |              | 2007-001433 | R-CHIP;12Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-002899 | R-CHIP;10ohm,1%,1/10W,TP,1608            | 1    | SA     |        |
| ...4  |              | 2007-007139 | R-CHIP;47Kohm,1%,1/16W,TP,1005,T0.35     | 6    | SA     |        |
| ...4  |              | 2007-007431 | R-CHIP;91Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-007517 | R-CHIP;240ohm,1%,1/16W,TP,1005           | 7    | SNA    |        |
| ...4  |              | 2007-007721 | R-CHIP;560ohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-007766 | R-CHIP;2Kohm,1%,1/16W,TP,1005            | 6    | SA     |        |
| ...4  |              | 2007-008213 | R-CHIP;4.3Kohm,1%,1/16W,TP,1005          | 5    | SA     |        |
| ...4  |              | 2007-008596 | R-CHIP;0.1ohm,1%,1/4W,TP,3216            | 2    | SC     |        |
| ...4  |              | 2011-001264 | R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2. | 4    | SNA    |        |
| ...4  | AD480        | 2203-000125 | C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608     | 1    | SA     |        |
| ...4  | AD480        | 2203-000233 | C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005      | 6    | SA     |        |
| ...4  | AD480        | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608      | 1    | SA     |        |
| ...4  | AD480        | 2203-000425 | C-CER,CHIP;0.018nF,5%,50V,C0G,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000438 | C-CER,CHIP;1nF,10%,50V,X7R,TP,1005       | 16   | SA     |        |
| ...4  | AD480        | 2203-002494 | C-CER,CHIP;470nF,10%,16V,X7R,TP,2012     | 1    | SNA    |        |
| ...4  | AD480        | 2203-002711 | C-CER,CHIP;100nF,10%,25V,X7R,TP,1608     | 3    | SA     |        |
| ...4  | AD480        | 2203-005138 | C-CER,CHIP;1.8nF,10%,50V,X7R,TP,1005     | 3    | SA     |        |
| ...4  | AD480        | 2203-005344 | C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,0.5T | 3    | SNA    |        |
| ...4  | AD480        | 2203-006307 | C-CER,CHIP;1000nF,10%,25V,X5R,TP,2012    | 3    | SNA    |        |
| ...4  | AD480        | 2203-006324 | C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608    | 2    | SA     |        |
| ...4  | AD480        | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0. | 4    | SA     |        |
| ...4  | AD480        | 2203-006399 | C-CER,CHIP;1000nF,10%,6.3V,X5R,TP,1005   | 1    | SA     |        |
| ...4  | AD480        | 2203-006562 | C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005    | 24   | SNA    |        |
| ...4  | AD480        | 2203-006698 | C-CER,CHIP;1000nF,10%,25V,X7R,TP,1608,0. | 2    | SA     |        |
| ...4  | AD480        | 2203-006841 | C-CER,CHIP;1000nF,10%,16V,X5R,TP,1005    | 1    | SNA    |        |
| ...4  | AD480        | 2203-006960 | C-CER,CHIP;1000nF,10%,50V,X7R,TP,2012    | 1    | SNA    |        |
| ...4  | AD480        | 2203-008315 | C-CER,CHIP;22000nF,20%,25V,X5R,TP,2012,1 | 25   | SA     |        |
| ...4  |              | 2703-003713 | INDUCTOR-SMD;1.5uH,20%,7366,0.015Ohm,700 | 2    | SA     |        |
| ...4  |              | 2703-003747 | INDUCTOR-SMD;22uH,20%,6060,0.135ohm,1300 | 3    | SA     |        |
| ...4  |              | 2703-003862 | INDUCTOR-SMD;10uH,20%,6060,0.065ohm,1900 | 1    | SA     |        |
| ...4  |              | 2703-003913 | INDUCTOR-SMD;2.2uH,20%,2520,1.2T,0.116Oh | 1    | SNA    |        |
| ...4  |              | 2703-004199 | INDUCTOR-SMD;10uH,20%,6.6x7.0mm,2.2mm,0. | 1    | SNA    |        |
| ...4  |              | 2801-005324 | CRYSTAL-SMD;27MHz,30ppm,Ceramic SMD(4pin | 1    | SA     |        |
| ...4  |              | 2901-001362 | FILTER-EMI/ESD;5.5V,0A,50pF,2.05x1.25x0. | 3    | SNA    |        |
| ...4  |              | 3301-002039 | BEAD-SMD;26ohm,1608,TP                   | 54   | SA     |        |
| ...4  |              | 3601-001374 | FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL | 3    | SA     |        |
| ...4  |              | 3601-001376 | FUSE-SURFACE MOUNT;32V,3A,FAST-ACTING,Hi | 1    | SNA    |        |
| ...4  |              | 3708-003073 | CONNECTOR-FPC/FFC/PIC;51P,0.5mm,SMD-A,AU | 2    | SA     |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 3708-003176 | CONNECTOR-FPC/FFC/PIC;68P,0.5mm,SMD-A,AU | 2    | SA     |        |
| ...4  | EH01         | 3711-008098 | HEADER-BOARD TO CABLE;BOX,20P,1R,1.25mm, | 1    | SNA    |        |
| ...4  |              | BN41-02481A | PCB-MAIN;2016Y FHD SDC MJC,FR-4,4L,1.2T, | 1    | SNA    |        |
| ...4  |              | BN68-04746A | LABEL-SMD;all model,POLY*,polyester,comm | 2    | SNA    |        |
| ...4  |              | BN97-11033A | ASSY MICOM;1107-002224,K6300_49,HAWK_FTS | 1    | SNA    |        |
| ...5  |              | 1107-002224 | IC-FLASH MEM. MODULE;W25X40CLSSIG,4Mbit, | 1    | SNA    |        |
| ..3   | M0131        | MD63-00103A | GASKET-TAPE;GRANDSLAM,Conductive Fabric, | 3    | SNA    |        |
| 0.2   |              | BN96-39212A | ASSY OPEN CELL;LSF490HN02-L,16:9,0.4T    | 1    | SNA    |        |
| ..3   |              | BN81-07437A | A/S-ADHESIVE ACF;LSJ400HL02-E,ADHESIVE A | 1    | SNA    |        |
| ..3   |              | BN81-07943A | A/S-ADHESIVE ACF;LSF320AN01-A,0201-00237 | 1    | SNA    |        |
| ..3   |              | BN81-13073A | A/S-IC DRIVER SOURCE;IC DRIVER SOURCE,LJ | 1    | SNA    |        |
| ..3   |              | BN81-13079A | A/S-SOURCE PCB RIGHT;SOURCE PCB RIGHT,LJ | 1    | SNA    |        |
| ..3   |              | BN81-13080A | A/S-SOURCE PCB LEFT;SOURCE PCB LEFT,LJ94 | 1    | SNA    |        |
| ..3   |              | BN81-13093A | A/S-POLARIZER TFT;POLARIZER TFT,LJ01-107 | 1    | SNA    |        |
| ..3   |              | BN81-13094A | A/S-POLARIZER CF;POLARIZER CF,LJ01-10722 | 1    | SNA    |        |
| 0.2   |              | BN96-39740B | ASSY CHASSIS FRONT P;49K6200,PC+ABS+ED18 | 1    | SNA    |        |
| ..3   |              | BN95-02865B | ASSY COVER CHASSIS SMT-FRONT;K6200,49,SI | 1    | SNA    |        |
| ...4  |              | 0204-006861 | COATING;SMT-L100,CLEAR,0.928             | 0    | SNA    |        |
| ...4  |              | BN01-00160A | TARGET-CHROMIUM CY;Chromium,99.95%,1800x | 0    | SNA    |        |
| ...4  |              | BN60-01366A | SPACER-CONDUCTIVE;49K6200,CONDUCTIVE FAB | 2    | SNA    |        |
| ...4  |              | BN60-01366B | SPACER-CONDUCTIVE;49K6300,CONDUCTIVE FAB | 2    | SNA    |        |
| ...4  |              | BN63-10118A | GASKET-TAPE;60 FLED,Conductive Fabric,T0 | 2    | SNA    |        |
| ...4  |              | BN63-11118B | SHEET-PROTECTION COVER;Y13 SNB F8.5K,PET | 2    | SNA    |        |
| ...4  |              | BN63-11118F | SHEET-PROTECTION COVER;K6200,PET,T0.04,W | 1    | SNA    |        |
| ...4  |              | BN63-12151A | GASKET-EMI;CY-MH270BGLV1V,Conductive Fab | 2    | SNA    |        |
| ...4  | AC155        | BN64-03436A | CHASSIS-FRONT;49K6200,PC+ABS+ED18%,V-1,M | 1    | SNA    |        |
| 0.2   |              | BN96-40424A | FFC CABLE;K6300,Straight,L47,68P,16Y FHD | 2    | SNA    |        |

## ANNEX. Exploded View & Part List [UN40K6250AFXZA FA01]

### 1-1. Exploded View



#### 1-1-1. Parts List

| No. | Code No.    | Description & Specification               | Q'ty | SA/SNA | Remark |
|-----|-------------|-------------------------------------------|------|--------|--------|
| 1   | BN95-02615C | PRODUCT LCD-SDC; CY-VK040BGLV3V/H,K630    | 1    | SA     |        |
| 2   | BN95-02675A | ASSY T CON; K6300 40inch,Hawk-FTs         | 1    | SA     |        |
| 3   | BN61-13287A | BRACKET-STAND LINK; 40K5500,EGI-SECC,T1.6 | 1    | SNA    |        |
| 4   | BN94-10792A | ASSY PCB MAIN; LEDTV 6K                   | 1    | SA     |        |
| 5   | BN44-00871A | DC VSS-PD BOARD; L40E1_KDY,AC/DC,93W,100- | 1    | SA     |        |
| 6   | BN96-39972A | ASSY SPEAKER P-FRONT; 6ohm,10,US only     | 1    | SA     |        |
| 7   | BN96-39742J | ASSY COVER P-REAR; 40K6200,PC+ABS+ED2     | 1    | SA     |        |
| 8   | BN96-40077B | ASSY STAND P-FRONT; 40K5500,ABS,BK0008,HB | 1    | SA     |        |
| 9   | BN96-40079B | ASSY STAND P-REAR; 40K5500,ABS,BK0008,HB  | 1    | SA     |        |
| 10  | BN59-01239A | NETWORK-WLAN CLIENT; WCK730B,USB 2.0,16P, | 1    | SA     |        |
| 11  | BN63-15481A | COVER-TERMINAL SIDE; 40K5500,HIPS,MOLD,HB | 1    | SA     |        |
| 12  | BN96-39802B | ASSY BOARD P-FUNCTION TACT; K6200/K5500/K | 1    | SA     |        |

## 2-1. Electrical Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
|       |              |             | UN40K6250AFXZA (FA01)                        |      |        |        |
| 1     | R001A        | BN90-07991A | ASSY COVER REAR;LEDTV 6K                     | 1    | SNA    |        |
| 0.2   | R001A        | BN96-39742J | ASSY COVER P-REAR;40K6200,PC+ABS+ED20%,V     | 1    | SA     |        |
| ..3   | CCM1         | BN63-02183F | SHEET-PROTECTION COVER;Rhcm,PE,T0.05,W90     | 1    | SNA    |        |
| ..3   |              | BN63-07556G | SHEET-COVER;TOC,PO,T0.068,W70mm,100M,ST-     | 3    | SNA    |        |
| ..3   | AC220        | BN63-15198A | COVER-CAP;55KS7500,ABS+PMMA,T0.1,HB,BK00     | 4    | SNA    |        |
| ..3   | R001         | BN63-15259A | COVER-REAR;40K6200,PC+ABS+ED20%,MOLD,<br>V-1 | 1    | SNA    |        |
| ..3   | AC220        | BN63-15933A | COVER-CAP;49K6200,PC+ABS+ED20%,MOLD,V-1,     | 2    | SNA    |        |
| ..3   |              | BN64-03519M | INLAY-TERMINAL SIDE;49K6200,PET,T0.125,W     | 1    | SNA    |        |
| ..3   |              | BN68-07835A | LABEL-STICKER LICENSE;40K5500,PET,0.125,     | 1    | SNA    |        |
| 1     |              | BN90-08023A | ASSY W/I;LEDTV 6K                            | 1    | SNA    |        |
| 0.2   |              | BN81-08159Z | A/S PART SET-ELEC W/I;LED TV ELEC spec-C     | 1    | SNA    |        |
| 0.2   |              | BN81-12184W | A/S PART SET-MECH W/I;UK6300E,U40KM*         | 1    | SNA    |        |
| 1     | S001A        | BN90-08288A | ASSY STAND;LEDTV 6K                          | 1    | SNA    |        |
| 0.2   |              | BN96-40077B | ASSY STAND P-FRONT;40K5500,ABS,BK0008,HB     | 1    | SA     |        |
| ..3   |              | 6001-003168 | SCREW-MACHINE;CH,+,M3,L5,ZPC(BLK),SWRCH1     | 2    | SNA    |        |
| ..3   | SCREW        | 6003-001334 | SCREW-TAPTYPE;BH,+,S,M4,L14,ZPC(BLK),SWR     | 2    | SA     |        |
| ..3   |              | 6021-000265 | NUT-HEXAGON;2C,M4,ZPC(YEL),SM20C             | 4    | SNA    |        |
| ..3   |              | 6902-002660 | BAG PE;HDPE/PE FOAM,T0.015/T0.5,W120,L20     | 1    | SNA    |        |
| ..3   |              | BN61-13415A | BRACKET-STAND BOTTOM<br>FRONT;40K5500,SM45C  | 1    | SNA    |        |
| ..3   |              | BN61-13421A | BRACKET-STAND NECK FRONT;40K5500,HGI,T4,     | 1    | SNA    |        |
| ...4  |              | BN61-13531A | STUD-PEM;40K5500,SUM24L,NATURAL              | 1    | SNA    |        |
| ..3   |              | BN61-13427A | GUIDE-STAND FRONT;40K5500,PC+GF20%,V-2,G     | 1    | SNA    |        |
| ..3   |              | BN61-14105B | BRACKET-STAND LINK FRONT;40K5500,EGI-SEC     | 1    | SNA    |        |
| ..3   |              | BN63-15241B | COVER-STAND BOTTOM<br>FRONT;40K5500,ABS,MOL  | 1    | SNA    |        |
| ..3   |              | BN63-15764A | SHEET-PU FOAM;40K5500,PU FOAM,T0.3,W57,L     | 1    | SNA    |        |
| ..3   |              | BN68-05603A | LABEL-E PASS;ART PAPER 90G,W/W               | 2    | SNA    |        |
| ..3   |              | BN95-02800A | ASSY COVER STAND SMT-FRONT TOP;K6200,40,     | 1    | SNA    |        |
| ...4  |              | BN63-15238A | COVER-STAND TOP FRONT;40K5500,PC+ABS,MOL     | 1    | SNA    |        |
| 0.2   |              | BN96-40079B | ASSY STAND P-REAR;40K5500,ABS,BK0008,HB      | 1    | SA     |        |
| ..3   |              | 6001-001114 | SCREW-MACHINE;FH,+,M4,L6,ZPC(BLK),SWRC       | 2    | SA     |        |
| ..3   | SCREW        | 6003-001238 | SCREW-TAPTYPE;FH,+,S,M4,L8,ZPC(BLK),SWRC     | 2    | SA     |        |
| ..3   | SCREW        | 6003-001335 | SCREW-TAPTYPE;PH,+,S,M3,L8,NI PLT,SWRCH1     | 2    | SA     |        |
| ..3   |              | 6902-002661 | BAG PE;HDPE/PE FOAM,T0.015/T0.5,W140,L20     | 1    | SNA    |        |
| ..3   |              | BN60-00162C | SPACER-FOAM;PE FOAM,ROLL,GRAY,T0.5,W15       | 1    | SNA    |        |
| ..3   |              | BN61-13418A | BRACKET-STAND BOTTOM REAR;40K5500,HGI,T1     | 1    | SNA    |        |
| ..3   |              | BN61-13424A | BRACKET-STAND NECK REAR;K5500 40" 43",HG     | 1    | SNA    |        |
| ..3   |              | BN61-13430A | GUIDE-STAND REAR;40K5500,PC+GF20%,V-2,GY     | 1    | SNA    |        |
| ..3   | RF01         | BN61-13520B | FOOT-RUBBER;40K5500,Si,GRAY,T3,W5 L5         | 4    | SNA    |        |
| ..3   |              | BN63-11118E | SHEET-PROTECTION COVER;STANDARD<br>ENCLOSUR  | 1    | SNA    |        |

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
| ..3   |              | BN63-15247B | COVER-STAND BOTTOM<br>REAR;40K5500,ABS,MOLD  | 1    | SNA    |        |
| ..3   |              | BN63-15764B | SHEET-PU FOAM;55K5500,PU FOAM,T0.3,W57,L     | 1    | SNA    |        |
| ..3   |              | BN95-02802A | ASSY COVER STAND SMT-REAR TOP;K6200,40,S     | 1    | SNA    |        |
| ...4  |              | BN63-15244A | COVER-STAND TOP<br>REAR;40K5500,PC+ABS,MOLD  | 1    | SNA    |        |
| ..3   |              | BN96-35528C | ASSY ACCESSORY-SCREW;40K5500,W/<br>W,EN,BN61 | 1    | SNA    |        |
| 1     |              | BN91-17301A | ASSY SHIELD;LEDTV 6K                         | 1    | SNA    |        |
| 0.2   | SCREW        | 6001-003016 | SCREW-MACHINE;PWH,+,M3.0,L5.0,ZPC(WHT),S     | 5    | SA     |        |
| 0.2   |              | BN39-02211A | LEAD CONNECTOR-SUB ASSY;55KS9000,UL21451     | 1    | SA     |        |
| 0.2   |              | BN39-02217D | LEAD CONNECTOR-POWER;43K5500,UL21016,12P     | 1    | SA     |        |
| 0.2   |              | BN39-02223A | LEAD CONNECTOR-SUB ASSY;40K5500,UL21016,     | 1    | SA     |        |
| 0.2   |              | BN44-00871A | DC VSS-PD BOARD;L40E1_KDY,AC/DC,93W,100-     | 1    | SA     |        |
| 0.2   | WIFI         | BN59-01239A | NETWORK-WLAN CLIENT;WCK730B,USB 2.0,16P,     | 1    | SA     |        |
| 0.2   | CB18         | BN61-13287A | BRACKET-STAND LINK;40K5500,EGI-SECC,T1.6     | 1    | SNA    |        |
| 0.2   | RB01         | BN63-15932A | COVER-BOTTOM;49K6200,PC+ABS+ED20%,MOL<br>D,V | 1    | SNA    |        |
| 0.2   |              | BN96-39802B | ASSY BOARD P-FUNCTION TACT;K6200/K5500/K     | 1    | SA     |        |
| 0.2   |              | BN96-39972A | ASSY SPEAKER P-FRONT;6ohm,10,US only         | 1    | SA     |        |
| 0.2   |              | BN96-40209B | FFC CABLE;40K6200,Wrinkle,L300,51P           | 1    | SA     |        |
| 1     | M0017        | BN91-17373A | ASSY CHASSIS;LED TV 6K                       | 1    | SNA    |        |
| 0.2   | M0014        | BN94-10792A | ASSY PCB MAIN;LEDTV 6K                       | 1    | SA     |        |
| ..3   | AH020        | BN62-00821A | HEAT SINK;49K6200,A1050,6.3T,W127.6,L94.     | 1    | SNA    |        |
| ..3   |              | BN63-15481A | COVER-TERMINAL SIDE;40K5500,HIPS,MOLD,HB     | 1    | SA     |        |
| ..3   |              | BN97-09470A | ASSY DRM;MAC, MIRACAST HDCP                  | 1    | SNA    |        |
| ...4  |              | BN46-00109H | KEY CODE-CERTIFICATION;MAC,TV/AV,General     | 1    | SNA    |        |
| ...4  |              | BN46-00110P | KEY CODE-CERTIFICATION;MIRACAST(HDCP2.2)     | 1    | SNA    |        |
| ..3   |              | BN97-10642A | ASSY SMD;LED TV 6K                           | 1    | SNA    |        |
| ...4  | DS01A        | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO     | 1    | SA     |        |
| ...4  |              | 0403-001783 | DIODE-ZENER;BZB84-C6V2,5.8~6.6V,300mW,SO     | 3    | SNA    |        |
| ...4  |              | 0404-001404 | DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,     | 4    | SA     |        |
| ...4  |              | 0406-001200 | DIODE-TVS;RClamp0504F,6V,1MAV,TP             | 2    | SA     |        |
| ...4  |              | 0406-001628 | DIODE-TVS;AOZ8804ADI,6V,1MAV,5A,TP           | 1    | SA     |        |
| ...4  |              | 0406-001635 | DIODE-TVS;SMF5.0A,6.4V,6.7V,7V,200MAV,20     | 7    | SA     |        |
| ...4  |              | 0501-000445 | TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT     | 3    | SC     |        |
| ...4  |              | 0504-000126 | TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4.7K,S     | 1    | SA     |        |
| ...4  |              | 0505-002560 | FET-SILICON;AO6415,P,20V,-3.3A,0.15ohm,1     | 1    | SA     |        |
| ...4  |              | 0505-002598 | FET-SILICON;AP2317GN,P,20V,-4.2A,0.052oh     | 1    | SA     |        |
| ...4  |              | 0505-002893 | FET-SILICON;AO4801AS,P,30V,-5A,2W,SOIC-8     | 1    | SA     |        |
| ...4  |              | 0505-003397 | FET-SILICON;2N7002K,N,60V,0.38A,1.19ohm,     | 2    | SA     |        |
| ...4  |              | 0505-003507 | FET-SILICON;AO3424,N,30V,3.8A,1.4W,SOT-2     | 4    | SA     |        |
| ...4  |              | 0801-002780 | IC-CMOS LOGIC;74LVC1G17,SCHMITT-TRIGGER      | 1    | SA     |        |
| ...4  |              | 1001-001545 | IC-ANALOG MULTIPLEX;TS3USB221ERSER,R-PQF     | 1    | SA     |        |
| ...4  |              | 1103-001600 | IC-EEPROM;24C512C,512k,SOIC,8P,6.20mmX5.     | 1    | SA     |        |
| ...4  |              | 1105-002681 | IC-DDR3 SDRAM;H5TQ4G63CFR,DDR3 1866,4Gbi     | 3    | SNA    |        |
| ...4  |              | 1201-003690 | IC-AUDIO AMP;TAS5747PHPR,QFP,48P,DUAL,PL     | 1    | SA     |        |
| ...4  |              | 1203-004364 | IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,     | 1    | SA     |        |

ANNEX. Exploded View & Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 1203-007018 | IC-DC/DC CONVERTER;TPS54821RHL,QFN,14,3. | 1    | SA     |        |
| ...4  |              | 1203-007238 | IC-PWM CONTROLLER;TPS54427,DDA,8P,4.8x3. | 1    | SNA    |        |
| ...4  |              | 1203-007700 | IC-DC/DC CONVERTER;TPS54527DDAR,DDA,8P,5 | 1    | SA     |        |
| ...4  |              | 1203-008105 | IC-POSI.FIXED REG.;S-13A1D33-E800,HSOP,8 | 1    | SNA    |        |
| ...4  |              | 1203-008118 | IC-DC/DC CONVERTER;AOZ3013PI,SO-8,8,4.96 | 2    | SA     |        |
| ...4  |              | 1203-008183 | IC-DC/DC CONVERTER;AOZ3015PI-1,EPAD SO-8 | 1    | SA     |        |
| ...4  |              | 1203-008392 | IC-VOL. DETECTOR;S-6414AAB-L800X,TSOT-23 | 1    | SA     |        |
| ...4  |              | 1203-008393 | IC-DDR TERMINATION REG.;AP2303MTR-G1-89, | 1    | SA     |        |
| ...4  |              | 1203-008454 | IC-DC/DC CONVERTER;TPS56528,HSOP8,8,4,89 | 1    | SA     |        |
| ...4  |              | 1204-003586 | IC-DECODER;SDP1415,PBGA,631P,23x23mm,PLA | 1    | SA     |        |
| ...4  |              | 1205-004983 | IC-SWITCH;BD82032FVJ,TSSOP-B8J,8P,3.0x4. | 2    | SA     |        |
| ...4  |              | 1205-005537 | IC-REPEATER;TCA9517,VSSOP,8P,3.00x3.00mm | 3    | SA     |        |
| ...4  |              | 1405-001271 | VARISTOR;35V,20Vdc,5A,1.0x0.5mm,TP,100V, | 15   | SA     |        |
| ...4  |              | 2007-000137 | R-CHIP;2Kohm,5%,1/16W,TP,1005            | 16   | SNA    |        |
| ...4  |              | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005          | 57   | SA     |        |
| ...4  |              | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005           | 21   | SNA    |        |
| ...4  |              | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005             | 35   | SA     |        |
| ...4  |              | 2007-000173 | R-CHIP;22ohm,5%,1/16W,TP,1005            | 1    | SA     |        |
| ...4  |              | 2007-000174 | R-CHIP;47ohm,5%,1/16W,TP,1005            | 26   | SA     |        |
| ...4  |              | 2007-000932 | R-CHIP;470ohm,5%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-001116 | R-CHIP;680ohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-001125 | R-CHIP;68Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-001288 | R-CHIP;18ohm,5%,1/16W,TP,1005            | 4    | SA     |        |
| ...4  |              | 2007-001292 | R-CHIP;33ohm,5%,1/16W,TP,1005            | 5    | SA     |        |
| ...4  |              | 2007-007107 | R-CHIP;100Kohm,1%,1/16W,TP,1005          | 13   | SNA    |        |
| ...4  |              | 2007-007132 | R-CHIP;15Kohm,1%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-007133 | R-CHIP;300ohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007134 | R-CHIP;39Kohm,1%,1/16W,TP,1005           | 2    | SA     |        |
| ...4  |              | 2007-007135 | R-CHIP;18Kohm,1%,1/16W,TP,1005           | 2    | SNA    |        |
| ...4  |              | 2007-007136 | R-CHIP;4.7Kohm,1%,1/16W,TP,1005          | 2    | SNA    |        |
| ...4  |              | 2007-007137 | R-CHIP;1.2Kohm,1%,1/16W,TP,1005          | 4    | SA     |        |
| ...4  |              | 2007-007138 | R-CHIP;27Kohm,1%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-007142 | R-CHIP;10Kohm,1%,1/16W,TP,1005           | 22   | SA     |        |
| ...4  |              | 2007-007306 | R-CHIP;100ohm,1%,1/16W,TP,1005           | 19   | SNA    |        |
| ...4  |              | 2007-007307 | R-CHIP;150ohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007309 | R-CHIP;12Kohm,1%,1/16W,TP,1005,T0.35     | 3    | SA     |        |
| ...4  |              | 2007-007311 | R-CHIP;22Kohm,1%,1/16W,TP,1005           | 6    | SA     |        |
| ...4  |              | 2007-007312 | R-CHIP;20Kohm,1%,1/16W,TP,1005           | 2    | SA     |        |
| ...4  |              | 2007-007313 | R-CHIP;6.8Kohm,1%,1/16W,TP,1005          | 2    | SA     |        |
| ...4  |              | 2007-007317 | R-CHIP;2.2Kohm,1%,1/16W,TP,1005          | 1    | SA     |        |
| ...4  |              | 2007-007318 | R-CHIP;1Kohm,1%,1/16W,TP,1005            | 21   | SA     |        |
| ...4  |              | 2007-007470 | R-CHIP;7.5Kohm,1%,1/16W,TP,1005          | 1    | SNA    |        |
| ...4  |              | 2007-007488 | R-CHIP;75Kohm,1%,1/16W,TP,1005           | 1    | SNA    |        |
| ...4  |              | 2007-007517 | R-CHIP;240ohm,1%,1/16W,TP,1005           | 7    | SNA    |        |
| ...4  |              | 2007-007528 | R-CHIP;1.5Kohm,1%,1/16W,TP,1005          | 1    | SA     |        |
| ...4  |              | 2007-007587 | R-CHIP;3.6Kohm,1%,1/16W,TP,1005          | 1    | SNA    |        |
| ...4  |              | 2007-007767 | R-CHIP;200ohm,1%,1/16W,TP,1005           | 7    | SA     |        |

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 2007-007861 | R-CHIP;62Kohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007942 | R-CHIP;1Mohm,1%,1/16W,TP,1005            | 1    | SNA    |        |
| ...4  |              | 2007-008015 | R-CHIP;75ohm,1%,1/16W,TP,1005            | 14   | SA     |        |
| ...4  |              | 2007-008275 | R-CHIP;30Kohm,1%,1/16W,TP,1005           | 3    | SNA    |        |
| ...4  |              | 2007-008298 | R-CHIP;49.9ohm,1%,1/16W,TP,1005          | 4    | SA     |        |
| ...4  |              | 2007-008429 | R-CHIP;499ohm,1%,1/16W,TP,1005           | 1    | SNA    |        |
| ...4  |              | 2007-008485 | R-CHIP;22ohm,1%,1/16W,TP,1005            | 9    | SC     |        |
| ...4  |              | 2007-008779 | R-CHIP;0ohm,1%,1/16W,TP,1005             | 4    | SA     |        |
| ...4  |              | 2007-009117 | R-CHIP;49.9Kohm,1%,1/16W,TP,1005         | 1    | SA     |        |
| ...4  |              | 2007-009777 | R-CHIP;4.99Kohm,1%,1/16W,TP,1005         | 1    | SA     |        |
| ...4  |              | 2011-001449 | R-NETWORK;22ohm,5%,1/16W,L,4P,TP,1.0x1.0 | 3    | SA     |        |
| ...4  |              | 2011-001497 | R-NETWORK;470ohm,5%,1/16W,L,CHIP,4P,TP,1 | 1    | SNA    |        |
| ...4  | AD480        | 2203-000278 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005  | 2    | SA     |        |
| ...4  | AD480        | 2203-000359 | C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5 | 3    | SA     |        |
| ...4  | AD480        | 2203-000386 | C-CER,CHIP;0.015nF,5%,50V,C0G,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000489 | C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005     | 3    | SA     |        |
| ...4  | AD480        | 2203-000585 | C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005    | 3    | SA     |        |
| ...4  | AD480        | 2203-000627 | C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005    | 2    | SNA    |        |
| ...4  | AD480        | 2203-000714 | C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005     | 1    | SA     |        |
| ...4  | AD480        | 2203-000812 | C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005    | 5    | SA     |        |
| ...4  | AD480        | 2203-000854 | C-CER,CHIP;0.039nF,5%,50V,C0G,TP,1005    | 1    | SA     |        |
| ...4  | AD480        | 2203-000940 | C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000995 | C-CER,CHIP;0.047nF,5%,50V,C0G,TP,1005    | 1    | SA     |        |
| ...4  | AD480        | 2203-002285 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1005      | 9    | SNA    |        |
| ...4  | AD480        | 2203-003019 | C-CER,CHIP;8.2nF,10%,50V,X7R,TP,1005     | 2    | SNA    |        |
| ...4  | AD480        | 2203-005083 | C-CER,CHIP;220nF,10%,50V,X7R,TP,1608,0.8 | 6    | SA     |        |
| ...4  | AD480        | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1608     | 6    | SA     |        |
| ...4  | AD480        | 2203-005968 | C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5 | 4    | SNA    |        |
| ...4  | AD480        | 2203-006048 | C-CER,CHIP;100nF,10%,10V,X7R,TP,1005     | 61   | SA     |        |
| ...4  | AD480        | 2203-006126 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1005      | 3    | SNA    |        |
| ...4  | AD480        | 2203-006158 | C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,T0. | 196  | SA     |        |
| ...4  | AD480        | 2203-006257 | C-CER,CHIP;470nF,10%,6.3V,X5R,TP,1005,0. | 1    | SNA    |        |
| ...4  | AD480        | 2203-006324 | C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608    | 2    | SA     |        |
| ...4  | AD480        | 2203-006562 | C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005    | 24   | SNA    |        |
| ...4  | AD480        | 2203-006824 | C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608    | 4    | SNA    |        |
| ...4  | AD480        | 2203-006838 | C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005   | 11   | SA     |        |
| ...4  | AD480        | 2203-007240 | C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608( | 67   | SA     |        |
| ...4  | AD480        | 2203-007269 | C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2 | 14   | SA     |        |
| ...4  | AD480        | 2203-007513 | C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0 | 22   | SA     |        |
| ...4  | AD480        | 2203-007544 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,0.5 | 14   | SA     |        |
| ...4  |              | 2703-000158 | INDUCTOR-SMD;1uH,10%,0.4Ohm,50mA,45,Mult | 1    | SA     |        |
| ...4  |              | 2703-000213 | INDUCTOR-SMD;470nH,10%,1.35Ohm,35mA,15,M | 1    | SA     |        |
| ...4  |              | 2703-001938 | INDUCTOR-SMD;56nH,5%,1005,1.5Ohm,200mA,1 | 3    | SA     |        |
| ...4  |              | 2703-003937 | INDUCTOR-SMD;1uH,20%,7.0x6.47x3.0mm,0.00 | 1    | SA     |        |
| ...4  |              | 2703-004724 | INDUCTOR-SMD;8.2uH,20%,4T,0.072Ohm,2300m | 4    | SA     |        |
| ...4  |              | 2703-005191 | INDUCTOR-SMD;1.5uH,20%,4.5,0.02Ohm,5300m | 2    | SA     |        |
| ...4  |              | 2703-005192 | INDUCTOR-SMD;4.7uH,20%,4.5,0.036Ohm,4200 | 2    | SA     |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 2703-005194 | INDUCTOR-SMD;3.3uH,20%,4.5,0.03Ohm,4500m | 1    | SA     |        |
| ...4  |              | 2801-004021 | CRYSTAL-SMD;24.576MHz,20ppm,28-AAN,12pF, | 1    | SA     |        |
| ...4  |              | 3301-001364 | BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz, | 7    | SNA    |        |
| ...4  |              | 3701-001949 | CONNECTOR-HDMI;19P,A,FEMALE,AU,0.5mm,BLK | 3    | SA     |        |
| ...4  |              | 3707-001104 | CONNECTOR-OPTICAL;ANGLE,SPDIF            | 1    | SA     |        |
| ...4  | EH01         | 3711-005477 | HEADER-BOARD TO CABLE;BOX,4P,1R,2.0mm,SM | 1    | SA     |        |
| ...4  |              | 3711-007585 | CONNECTOR-HEADER;BOX,4P,1R,2.5mm,ANGLE,S | 1    | SA     |        |
| ...4  |              | 3711-007776 | CONNECTOR-HEADER;BOX,8P,1R,1.25mm,SMD-A, | 2    | SA     |        |
| ...4  | EH01         | 3711-008859 | HEADER-BOARD TO CABLE;BOX,12P,2R,2mm,ANG | 1    | SA     |        |
| ...4  |              | 3711-009090 | CONNECTOR-HEADER;BOX,16P,1R,1.25mm,SMD-A | 1    | SA     |        |
| ...4  |              | 3722-003199 | JACK-MODULAR;8P/8C,Y,ANGLE,NONE,AU,1PORT | 1    | SA     |        |
| ...4  |              | 3722-003457 | JACK-USB;4P/1C,NI,BLK,ANGLE,A,2.0,13.1x1 | 2    | SA     |        |
| ...4  |              | 3722-003814 | JACK-PHONE;1P/7C,NI/SN,YEL,ANGLE,3.5PI,1 | 1    | SA     |        |
| ...4  | JACK         | 3722-003873 | JACK-PHONE;1P/7C,AU/SN,BLU,ANGLE,3.5PI,1 | 1    | SA     |        |
| ...4  |              | 6302-001376 | GASKET-SMD;,,CONDUCTIVE FABRIC,T14,W43,L | 8    | SNA    |        |
| ...4  |              | BN40-00321A | TUNER-DTV AIR CABLE;DTVS20EH6A,DTVS20EH6 | 1    | SA     |        |
| ...4  |              | BN41-02534A | PCB-MAIN;K5500/6200/6300,FR-4,4L,1.2T,19 | 1    | SNA    |        |
| ...4  | CB07         | BN61-13312B | BRACKET-PCB;55KS8000,SK5,0.3,13.7,11.4,S | 4    | SNA    |        |
| ...4  |              | BN97-10911A | ASSY MICOM-MAIN;T-HKMFKAKUC,UWK60,THGBMB | 1    | SNA    |        |
| ...5  |              | 1107-002341 | IC-EMMC;THGBMBG5D1KBAIT,4GB,BGA,153P,11x | 1    | SA     |        |
| ...4  |              | BN97-10913A | ASSY MICOM-SUB;HMMICOM_16_FHD,UWK60,GD25 | 1    | SNA    |        |
| ...5  |              | 1107-002467 | IC-NOR FLASH;GD25Q41BSIGY,4Mbit,SOP,8P,5 | 1    | SA     |        |
| 1     |              | BN92-19838A | ASSY BOX;LEDTV 6K                        | 1    | SNA    |        |
| 0.2   |              | BH68-00697A | LABEL BOX;ALL,ART,90g,W60,L100,WHT,NO SI | 1    | SNA    |        |
| 0.2   |              | BN69-13475K | BOX UNIT;40K6250,CB,SW2,F1,L990,W140,H60 | 1    | SNA    |        |
| 1     |              | BN92-19868A | ASSY LABEL;LEDTV 6K                      | 1    | SNA    |        |
| 0.2   |              | BN68-05050A | LABEL-RATING;ALL MODEL,SS,PE,T0.05,W93,L | 1    | SNA    |        |
| 0.2   |              | BN68-07854L | LABEL-ENERGY;UN40K6250AFXZA,PET,T0.1,38, | 1    | SNA    |        |
| 0.2   |              | BN68-07909A | LEAFLET-QUICK SETUP GUIDE;K6250,ZA,W/P,A | 1    | SNA    |        |
| 0.2   |              | BN74-00053G | TAPE-PAPER;PAPER,3M2307,0.14T,W10,60M,WH | 1    | SNA    |        |
| 1     | ACCE1        | BN92-19898A | ASSY ACCESSORY;LEDTV 6K                  | 1    | SNA    |        |
| 0.2   |              | BN96-39494A | ASSY ACCESSORY-MANUAL CABLE;UK6M         | 1    | SNA    |        |
| ..3   | T0268        | 3903-001117 | CBF-POWER CORD;DT,USA,Angle,2P(C7),125V, | 1    | SA     |        |
| ..3   |              | 4301-000101 | BATTERY-ALKALINE;1.5V,1650mAh,LR6,14.5x5 | 2    | SNA    |        |
| ..3   |              | 6902-001962 | BAG PE;LDPE,BIOBASED,T0.05,W400,L300,TRP | 1    | SNA    |        |
| ..3   | EC03         | BN39-02189A | GENDER CABLE;DC to RCA Cable,3P,L100,UL2 | 1    | SA     |        |
| ..3   | EC03         | BN39-02190A | GENDER CABLE;DC to RCA Cable,2P,L100,UL2 | 1    | SA     |        |
| ..3   |              | BN59-01260A | REMOCON-SMART CONTROL;2016 TV,Samsung,13 | 1    | SA     |        |
| ..3   |              | BN68-04972E | LEAFLET-REGULATORY GUIDE;ALL,SAMSUNG,W/W | 1    | SNA    |        |
| ..3   |              | BN68-05723A | LABEL-ACCESSORY;ALL MODELS,YUPO,T0.2,W20 | 1    | SNA    |        |
| ..3   |              | BN68-07908A | MANUAL USERS;K6250,ZA,W/P,00             | 1    | SNA    |        |
| ..3   |              | BN96-40152A | ASSY HOLDER P-CABLE;65KS7500,ABS,BK0007, | 1    | SNA    |        |
| ...4  |              | BN61-04692A | ADHESIVE-AA;SHEET,CLEAR,C043             | 0    | SNA    |        |
| ...4  |              | BN61-05704A | TAPE-DOUBLE FACE;T1.1,W8,Dark Gray,3M #4 | 0    | SNA    |        |
| ...4  | AH089        | BN61-13777A | HOLDER-CABLE;55KS7500,ABS,T15,BK0007,HB, | 1    | SNA    |        |

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  | AS080        | BN63-07556W | SHEET-PROTECTION COVER;F-LED,PO,W12,ROLL | 0    | SNA    |        |
| ..3   | EH03A        | BN96-40460A | ASSY HOLDER P-RING;55KS7500,ABS,BLACK,V- | 1    | SNA    |        |
| ...4  |              | 6902-001404 | BAG PE;LDPE,T0.05,W80,L100,TRP,N         | 1    | SNA    |        |
| ...4  |              | BN61-13518A | HOLDER-WALL RING;55KS7500,ABS,MOLD,BK000 | 4    | SA     |        |
| 1     |              | BN92-19928A | ASSY P/MATERIAL;LEDTV 6K                 | 1    | SNA    |        |
| 0.2   |              | 6902-001612 | BAG ROLL;HDPE/PE FOAM,T0.5/T0.015,W1200, | 1    | SNA    |        |
| 0.2   |              | 6922-000013 | BAND;PP,W18,L2300/L2900,TRP              | 1    | SNA    |        |
| 0.2   |              | BH69-00418A | WRAP;762,1828M,SAMEX FACTORY             | 1    | SNA    |        |
| 0.2   |              | BN02-00319B | TAPE-OPP;OPP,T0.05,W75,L800m,CLEAR       | 2    | SNA    |        |
| 0.2   | AS080        | BN63-07229A | SHEET-PROTECTION COVER;rose70",PET,T0.05 | 1    | SNA    |        |
| 0.2   |              | BN68-02422B | LABEL-WARNING;ALL,ART,T0.05,W240,L100,Wh | 1    | SNA    |        |
| 0.2   |              | BN69-00391U | PACKING ANGLE;PAPER                      | 1    | SNA    |        |
| 0.2   |              | BN69-13233A | CUSHION-SET;40K6200,EPS,16.7g/l,WHT,QUAD | 1    | SNA    |        |
| 1     |              | BN95-02615C | PRODUCT LCD-SDC;CY-VK040BGLV3V/H,K6300,D | 1    | SA     |        |
| 0.2   | SCREW        | 6001-002757 | SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1 | 4    | SA     |        |
| 0.2   |              | BN68-05595A | LABEL-STICKER;ART 100G,T0.2,W80X23,WHITE | 1    | SNA    |        |
| 0.2   |              | BN74-00053E | TAPE-PAPER;PAPER,3M2307,0.14T,W20,50m,WH | 0    | SNA    |        |
| 0.2   |              | BN90-08209A | ASSY MISC-BLU;Y16,LCM                    | 1    | SNA    |        |
| ..3   |              | BN61-13749A | OPTICAL SHEET-COMPLEX;16Y_K5500_40INCH_C | 1    | SNA    |        |
| ..3   |              | BN61-13750A | LGP;16Y_K5500_40INCH_LGP,PMMA,Left LED,2 | 1    | SNA    |        |
| ..3   |              | BN61-13751A | OPTICAL SHEET-REFLECTOR;16Y_K5500_40INCH | 1    | SNA    |        |
| ..3   |              | BN61-13966A | OPTICAL SHEET-DIFFUSER;16Y_K5500_40INCH_ | 1    | SNA    |        |
| ..3   |              | BN96-39504A | ASSY LED BAR P;40 K6200(SDC),ALUMINUM,70 | 1    | SNA    |        |
| ..3   |              | BN96-39689A | ASSY CHASSIS REAR P;40K6200,EGI SECC AG+ | 1    | SNA    |        |
| ...4  |              | BN02-00506A | TAPE THERMAL;40K6200,ACRYL,T0.2,W19.2,L4 | 1    | SNA    |        |
| ...4  |              | BN39-02182A | LEAD CONNECTOR-BLU;43 K5500,UL21016,12P, | 1    | SNA    |        |
| ...4  |              | BN60-01462A | SPACER-SILICONE;55K6200,Si,L6,BLACK,T3.5 | 2    | SNA    |        |
| ...4  |              | BN61-08235A | HOLDER-LGP;SNB,SWRCH10A,BLACK,PRESS      | 1    | SNA    |        |
| ...4  |              | BN61-13459A | FRAME-MIDDLE TOP LEFT;49K6200,TPV,HB,BK0 | 1    | SNA    |        |
| ...4  |              | BN61-13460A | FRAME-MIDDLE TOP RIGHT;49K6200,TPV,HB,BK | 1    | SNA    |        |
| ...4  |              | BN61-13461A | FRAME-MIDDLE BOTTOM LEFT;49K6200,TPV,HB, | 1    | SNA    |        |
| ...4  |              | BN61-13462A | FRAME-MIDDLE BOTTOM RIGHT;49K6200,TPV,HB | 1    | SNA    |        |
| ...4  |              | BN61-13557A | BRACKET-WIRE;KS7000,SW-C,1,60,SILVER     | 3    | SA     |        |
| ...4  |              | BN61-13557D | BRACKET-WIRE;KS7000,SW-C,1,390,SILVER,ZI | 4    | SA     |        |
| ...4  |              | BN63-15531A | INSULATOR-SMPS;40K5500,PC,BLACK,L159.95, | 1    | SNA    |        |
| ...4  | CC04         | BN64-03413A | CHASSIS-REAR;40K6200,EGI-SECC,PRESS,T0.8 | 1    | SNA    |        |
| ..3   |              | BN96-40894A | ASSY FRAME P-MIDDLE LEFT;40K6200,STS304, | 1    | SNA    |        |
| ...4  |              | BN60-01428A | SPACER-PET;40K6200,PET,L495.5,GRAY,T0.06 | 2    | SNA    |        |
| ...4  |              | BN61-14145A | FRAME-MIDDLE LEFT;40K6200,STS304,PRESS,N | 1    | SNA    |        |
| 0.2   | TCON         | BN95-02675A | ASSY T CON;K6300 40inch,Hawk-FTs         | 1    | SA     |        |
| ..3   |              | BN02-00417A | TAPE THERMAL;Hawk-FTs,PET,W65,L120,BLACK | 1    | SNA    |        |
| ..3   | T0527        | BN68-00513A | LABEL-E PASS;ALL MODEL,WW,YUPO,W50,L15,W | 2    | SNA    |        |
| ..3   |              | BN97-10797A | ASSY SMD;K6500,Hawk-FTs SDC MJC Curved 4 | 1    | SNA    |        |
| ...4  |              | 0202-001976 | SOLDER-CREAM;LST-309M-K21,20~38um,96.5Sn | 4    | SNA    |        |
| ...4  |              | 0403-000489 | DIODE-ZENER;MMSZ5228B,3.705~4.095V,500mW | 6    | SA     |        |
| ...4  |              | 0403-001831 | DIODE-ZENER;KDZ12B,12~13.5V,1000mW,SOD-1 | 1    | SA     |        |
| ...4  |              | 0403-002014 | DIODE-ZENER;KDZ16B,16.2~18.3V,1000mW,SOD | 2    | SNA    |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
| ...4  |              | 0404-001640 | DIODE-SCHOTTKY;SS1060HEWS,60V,1000mA,S<br>OD | 1    | SA     |        |
| ...4  |              | 0404-001643 | DIODE-SCHOTTKY;B360A,60V,3000mA,SMA,TP       | 1    | SA     |        |
| ...4  |              | 0406-001689 | DIODE-TVS;SMH14A,15.6V,17.9V,1MAV,40A,TP     | 1    | SA     |        |
| ...4  |              | 0406-001712 | DIODE-TVS;P4SMAJ30A,33.3V,36.8V,1MAV,40A     | 1    | SNA    |        |
| ...4  |              | 0406-001745 | DIODE-TVS;P4SMAFJ18A-HAF,20V,21.5V,23.3V     | 1    | SNA    |        |
| ...4  |              | 0505-002660 | FET-SILICON;Si2308BDS,N,60V,2.3A,0.156oh     | 1    | SNA    |        |
| ...4  |              | 0505-003224 | FET-SILICON;AO6405,P,30V,-5A,0.052ohm,2W     | 1    | SA     |        |
| ...4  | EL02         | 0601-002037 | LED;SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470     | 2    | SA     |        |
| ...4  |              | 0801-002345 | IC-CMOS LOGIC;7S04,INVERTER,SOT-353,5P,2     | 1    | SA     |        |
| ...4  |              | 0801-003580 | IC-CMOS LOGIC;TC7WB66CFK,SSOP,8P,2.0X2.3     | 3    | SA     |        |
| ...4  |              | 1105-002274 | IC-DDR3 SDRAM;K4B1G1646G-BCMA,DDR3 1866,     | 1    | SNA    |        |
| ...4  |              | 1201-002779 | IC-OP AMP;IML7814HS-HF,TSSOP,TP,14P,5x4.     | 1    | SA     |        |
| ...4  |              | 1203-006130 | IC-POS.FIXED REG.;S-1172B25-U5T1G,SOT-8      | 1    | SA     |        |
| ...4  |              | 1203-007956 | IC-DC/DC CONVERTER;RT6917,QFN,48P,6x6x1m     | 1    | SNA    |        |
| ...4  |              | 1203-008102 | IC-POS.FIXED REG.;S-13A1D12-E800,HSOP,8      | 1    | SNA    |        |
| ...4  |              | 1203-008104 | IC-POS.FIXED REG.;S-13A1D18-E800,HSOP,8      | 3    | SNA    |        |
| ...4  |              | 1203-008258 | IC-DC/DC CONVERTER;SY8106RAC,QFN,20,3x3x     | 1    | SA     |        |
| ...4  |              | 1203-008667 | IC-DC/DC CONVERTER;RT6936A,WQFN,40,6x6mm     | 1    | SA     |        |
| ...4  |              | 1204-003557 | IC-VIDEO PROCESS;SDP1401,PBGAH,553P,23x2     | 1    | SA     |        |
| ...4  |              | 1404-001731 | THERMISTOR-NTC;33Kohm,4050K,1mW/C,TP,1.6     | 1    | SNA    |        |
| ...4  |              | 1405-001381 | VARISTOR;11V,8Vdc,30A,1.6x0.8mm,TP,25V,5     | 9    | SA     |        |
| ...4  |              | 1405-001382 | VARISTOR;24.5V,16VDC,120A,2.0x1.25mm,TP,     | 2    | SA     |        |
| ...4  |              | 1405-001391 | VARISTOR;32V,5Vdc,5A,2.1x1.25mm,TP,80V,1     | 6    | SA     |        |
| ...4  |              | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608                | 5    | SA     |        |
| ...4  |              | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608               | 3    | SA     |        |
| ...4  |              | 2007-000063 | R-CHIP;150Kohm,1%,1/10W,TP,1608              | 1    | SNA    |        |
| ...4  |              | 2007-000067 | R-CHIP;15Kohm,1%,1/10W,TP,1608               | 2    | SNA    |        |
| ...4  |              | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608                 | 9    | SA     |        |
| ...4  |              | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608                | 1    | SA     |        |
| ...4  |              | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608                | 10   | SA     |        |
| ...4  |              | 2007-000138 | R-CHIP;100ohm,5%,1/16W,TP,1005               | 10   | SA     |        |
| ...4  |              | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005                | 4    | SA     |        |
| ...4  |              | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005               | 4    | SA     |        |
| ...4  |              | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005              | 1    | SA     |        |
| ...4  |              | 2007-000172 | R-CHIP;10ohm,5%,1/16W,TP,1005                | 6    | SNA    |        |
| ...4  |              | 2007-000265 | R-CHIP;1.8Kohm,1%,1/10W,TP,1608              | 1    | SA     |        |
| ...4  |              | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608                | 1    | SA     |        |
| ...4  |              | 2007-000336 | R-CHIP;120Kohm,1%,1/10W,TP,1608              | 1    | SA     |        |
| ...4  |              | 2007-000455 | R-CHIP;18Kohm,1%,1/10W,TP,1608               | 1    | SA     |        |
| ...4  |              | 2007-000516 | R-CHIP;2.7Kohm,1%,1/10W,TP,1608              | 1    | SA     |        |
| ...4  |              | 2007-000536 | R-CHIP;200ohm,1%,1/10W,TP,1608               | 1    | SA     |        |
| ...4  |              | 2007-000614 | R-CHIP;24Kohm,1%,1/10W,TP,1608               | 1    | SNA    |        |
| ...4  |              | 2007-000857 | R-CHIP;4.3Kohm,1%,1/10W,TP,1608              | 1    | SNA    |        |
| ...4  |              | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608              | 3    | SNA    |        |
| ...4  |              | 2007-000903 | R-CHIP;430ohm,1%,1/10W,TP,1608               | 2    | SNA    |        |
| ...4  |              | 2007-000962 | R-CHIP;5.1Kohm,1%,1/10W,TP,1608              | 1    | SA     |        |

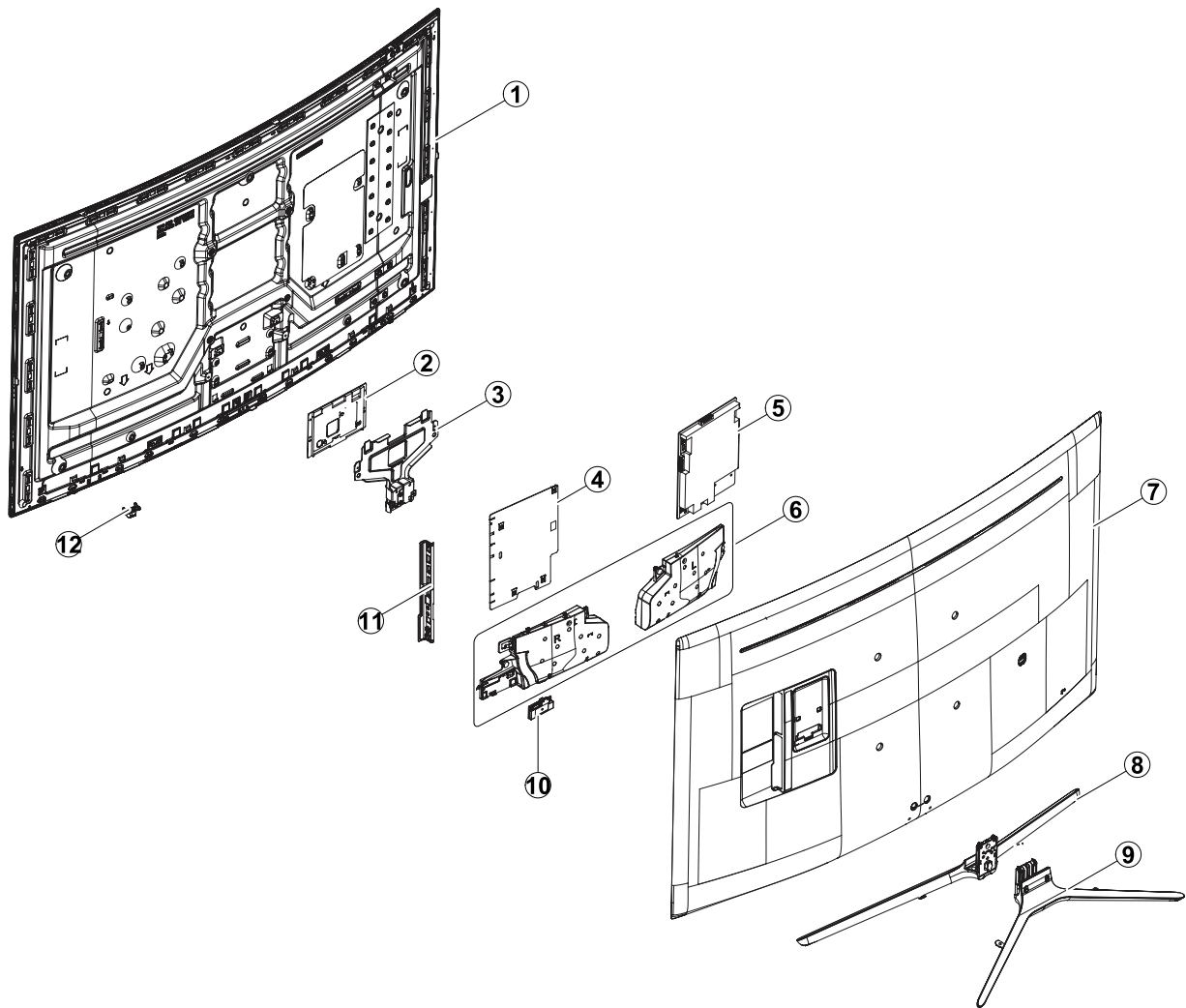
| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 2007-001206 | R-CHIP;82Kohm,1%,1/10W,TP,1608           | 1    | SNA    |        |
| ...4  |              | 2007-001298 | R-CHIP;51ohm,5%,1/16W,TP,1005            | 7    | SNA    |        |
| ...4  |              | 2007-001433 | R-CHIP;12Kohm,1%,1/10W,TP,1608           | 3    | SA     |        |
| ...4  |              | 2007-002768 | R-CHIP;6.2Kohm,1%,1/10W,TP,1608          | 1    | SA     |        |
| ...4  |              | 2007-002899 | R-CHIP;10ohm,1%,1/10W,TP,1608            | 1    | SA     |        |
| ...4  |              | 2007-007139 | R-CHIP;47Kohm,1%,1/16W,TP,1005,T0.35     | 6    | SA     |        |
| ...4  |              | 2007-007431 | R-CHIP;91Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-007766 | R-CHIP;2Kohm,1%,1/16W,TP,1005            | 6    | SA     |        |
| ...4  |              | 2007-008213 | R-CHIP;4.3Kohm,1%,1/16W,TP,1005          | 5    | SA     |        |
| ...4  |              | 2007-008596 | R-CHIP;0.1ohm,1%,1/4W,TP,3216            | 2    | SC     |        |
| ...4  |              | 2011-001264 | R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2. | 4    | SNA    |        |
| ...4  | AD480        | 2203-000125 | C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608     | 1    | SA     |        |
| ...4  | AD480        | 2203-000233 | C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005      | 6    | SA     |        |
| ...4  | AD480        | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608      | 1    | SA     |        |
| ...4  | AD480        | 2203-000425 | C-CER,CHIP;0.018nF,5%,50V,C0G,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000438 | C-CER,CHIP;1nF,10%,50V,X7R,TP,1005       | 16   | SA     |        |
| ...4  | AD480        | 2203-002494 | C-CER,CHIP;470nF,10%,16V,X7R,TP,2012     | 1    | SNA    |        |
| ...4  | AD480        | 2203-002711 | C-CER,CHIP;100nF,10%,25V,X7R,TP,1608     | 3    | SA     |        |
| ...4  | AD480        | 2203-005138 | C-CER,CHIP;1.8nF,10%,50V,X7R,TP,1005     | 3    | SA     |        |
| ...4  | AD480        | 2203-005344 | C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,0.5T | 3    | SNA    |        |
| ...4  | AD480        | 2203-006307 | C-CER,CHIP;1000nF,10%,25V,X5R,TP,2012    | 3    | SNA    |        |
| ...4  | AD480        | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0. | 4    | SA     |        |
| ...4  | AD480        | 2203-006399 | C-CER,CHIP;1000nF,10%,6.3V,X5R,TP,1005   | 1    | SA     |        |
| ...4  | AD480        | 2203-006698 | C-CER,CHIP;1000nF,10%,25V,X7R,TP,1608,0. | 2    | SA     |        |
| ...4  | AD480        | 2203-006841 | C-CER,CHIP;1000nF,10%,16V,X5R,TP,1005    | 1    | SNA    |        |
| ...4  | AD480        | 2203-006890 | C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608  | 54   | SNA    |        |
| ...4  | AD480        | 2203-006960 | C-CER,CHIP;1000nF,10%,50V,X7R,TP,2012    | 1    | SNA    |        |
| ...4  | AD480        | 2203-007176 | C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1 | 9    | SNA    |        |
| ...4  | AD480        | 2203-007306 | C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1 | 35   | SNA    |        |
| ...4  | AD480        | 2203-008315 | C-CER,CHIP;22000nF,20%,25V,X5R,TP,2012,1 | 25   | SA     |        |
| ...4  |              | 2703-003713 | INDUCTOR-SMD;1.5uH,20%,7366,0.015Ohm,700 | 2    | SA     |        |
| ...4  |              | 2703-003747 | INDUCTOR-SMD;22uH,20%,6060,0.135ohm,1300 | 3    | SA     |        |
| ...4  |              | 2703-003862 | INDUCTOR-SMD;10uH,20%,6060,0.065ohm,1900 | 1    | SA     |        |
| ...4  |              | 2703-003913 | INDUCTOR-SMD;2.2uH,20%,2520,1.2T,0.116Oh | 1    | SNA    |        |
| ...4  |              | 2703-004199 | INDUCTOR-SMD;10uH,20%,6.6x7.0mm,2.2mm,0. | 1    | SNA    |        |
| ...4  |              | 2801-005324 | CRYSTAL-SMD;27MHz,30ppm,Ceramic SMD(4pin | 1    | SA     |        |
| ...4  |              | 2901-001362 | FILTER-EMI/ESD;5.5V,0A,50pF,2.05x1.25x0. | 3    | SNA    |        |
| ...4  |              | 3301-002039 | BEAD-SMD;26ohm,1608,TP                   | 54   | SA     |        |
| ...4  |              | 3601-001374 | FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL | 3    | SA     |        |
| ...4  |              | 3601-001376 | FUSE-SURFACE MOUNT;32V,3A,FAST-ACTING,Hi | 1    | SNA    |        |
| ...4  |              | 3708-003073 | CONNECTOR-FPC/FFC/PIC;51P,0.5mm,SMD-A,AU | 2    | SA     |        |
| ...4  |              | 3708-003176 | CONNECTOR-FPC/FFC/PIC;68P,0.5mm,SMD-A,AU | 2    | SA     |        |
| ...4  | EH01         | 3711-008098 | HEADER-BOARD TO CABLE;BOX,20P,1R,1.25mm, | 1    | SNA    |        |
| ...4  |              | BN41-02481A | PCB-MAIN;2016Y FHD SDC MJC,FR-4,4L,1.2T, | 1    | SNA    |        |
| ...4  |              | BN68-04746A | LABEL-SMD;all model,POLY*,polyester,comm | 2    | SNA    |        |
| ...4  |              | BN97-11032A | ASSY MICOM;1107-002224,K6300_40,HAWK_FTS | 1    | SNA    |        |
| ....5 |              | 1107-002224 | IC-FLASH MEM. MODULE;W25X40CLSSIG,4Mbit, | 1    | SNA    |        |

ANNEX. Exploded View & Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ..3   | M0131        | MD63-00103A | GASKET-TAPE;GRANDSLAM,Conductive Fabric, | 3    | SNA    |        |
| 0.2   |              | BN96-39213A | ASSY OPEN CELL;LSF400HN02-L,16:9,0.4T    | 1    | SNA    |        |
| ..3   |              | BN81-07437A | A/S-ADHESIVE ACF;LSJ400HL02-E,ADHESIVE A | 1    | SNA    |        |
| ..3   |              | BN81-07943A | A/S-ADHESIVE ACF;LSF320AN01-A,0201-00237 | 1    | SNA    |        |
| ..3   |              | BN81-09610A | A/S-POLARIZER TFT;LSF400HM03-G,LJ01-0964 | 1    | SNA    |        |
| ..3   |              | BN81-09611A | A/S-POLARIZER CF;LSF400HM03-G,LJ01-09715 | 1    | SNA    |        |
| ..3   |              | BN81-13073A | A/S-IC DRIVER SOURCE;IC DRIVER SOURCE,LJ | 1    | SNA    |        |
| ..3   |              | BN81-13077A | A/S-SOURCE PCB LEFT;SOURCE PCB LEFT,LJ94 | 1    | SNA    |        |
| ..3   |              | BN81-13078A | A/S-SOURCE PCB RIGHT;SOURCE PCB RIGHT,LJ | 1    | SNA    |        |
| 0.2   |              | BN96-39768B | ASSY CHASSIS FRONT P;40K6200,PC+ABS+ED18 | 1    | SNA    |        |
| ..3   |              | BN95-02864B | ASSY COVER CHASSIS SMT-FRONT;K6200,40,SI | 1    | SNA    |        |
| ...4  |              | 0204-006861 | COATING;SMT-L100,CLEAR,0.928             | 0    | SNA    |        |
| ...4  |              | BN01-00160A | TARGET-CHROMIUM CY;Chromium,99.95%,1800x | 0    | SNA    |        |
| ...4  |              | BN60-01441A | SPACER-CONDUCTIVE;40K6300,CONDUCTIVE FAB | 2    | SNA    |        |
| ...4  |              | BN60-01441B | SPACER-CONDUCTIVE;40K6300,CONDUCTIVE FAB | 2    | SNA    |        |
| ...4  |              | BN63-11118B | SHEET-PROTECTION COVER;Y13 SNB F8.5K,PET | 2    | SNA    |        |
| ...4  |              | BN63-11118F | SHEET-PROTECTION COVER;K6200,PET,T0.04,W | 1    | SNA    |        |
| ...4  | AC155        | BN64-03435A | CHASSIS-FRONT;40K6200,PC+ABS+ED18%,V-1,M | 1    | SNA    |        |
| 0.2   |              | BN96-40424A | FFC CABLE;K6300,Straight,L47,68P,16Y FHD | 2    | SNA    |        |

## ANNEX. Exploded View & Part List [UN55K6250AFXZA FA01]

### 1-1. Exploded View



#### 1-1-1. Parts List

| No. | Code No.    | Description & Specification               | Q'ty | SA/SNA | Remark |
|-----|-------------|-------------------------------------------|------|--------|--------|
| 1   | BN95-02625C | PRODUCT LCD-SDC; CY-VK055BGLV3V/H,K6300   | 1    | SA     |        |
| 2   | BN95-02677A | ASSY T CON; K6300 55inch,Hawk-FTs         | 1    | SA     |        |
| 3   | BN61-13287A | BRACKET-STAND LINK; 40K5500,EGI-SECC,T1.6 | 1    | SNA    |        |
| 4   | BN94-10794A | ASSY PCB MAIN; LEDTV 6K                   | 1    | SA     |        |
| 5   | BN44-00872A | DC VSS-PD BOARD; L55E1_KDY,AC/DC,105W,100 | 1    | SA     |        |
| 6   | BN96-39974A | ASSY SPEAKER P-FRONT; 6ohm,10,US only     | 1    | SA     |        |
| 7   | BN96-39744J | ASSY COVER P-REAR; 55K6200,PC+ABS+ED20    | 1    | SA     |        |
| 8   | BN96-40078B | ASSY STAND P-FRONT; 49K5500,ABS,BK0008,HB | 1    | SA     |        |
| 9   | BN96-40080B | ASSY STAND P-REAR; 49K5500,ABS,BK0008,HB  | 1    | SA     |        |
| 10  | BN59-01239A | NETWORK-WLAN CLIENT; WCK730B,USB 2.0,16P, | 1    | SA     |        |
| 11  | BN63-15481A | COVER-TERMINAL SIDE; 40K5500,HIPS,MOLD,HB | 1    | SA     |        |
| 12  | BN96-39802B | ASSY BOARD P-FUNCTION TACT; K6200/K5500/K | 1    | SA     |        |

## 2-1. Electrical Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
|       |              |             | UN55K6250AFXZA (FA01)                        |      |        |        |
| 1     | R001A        | BN90-07993A | ASSY COVER REAR;LEDTV 6K                     | 1    | SNA    |        |
| 0.2   | R001A        | BN96-39744J | ASSY COVER P-REAR;55K6200,PC+ABS+ED20%,V     | 1    | SA     |        |
| ..3   | CCM1         | BN63-02183D | SHEET-PROTECTION COVER;Rhcm,PE,T0.04,W68     | 1    | SNA    |        |
| ..3   |              | BN63-07556G | SHEET-COVER;TOC,PO,T0.068,W70mm,100M,ST-     | 4    | SNA    |        |
| ..3   | AC220        | BN63-15198A | COVER-CAP;55KS7500,ABS+PMMA,T0.1,HB,BK00     | 4    | SNA    |        |
| ..3   | R001         | BN63-15261A | COVER-REAR;55K6200,PC+ABS+ED20%,MOLD,<br>V-1 | 1    | SNA    |        |
| ..3   |              | BN64-03519M | INLAY-TERMINAL SIDE;49K6200,PET,T0.125,W     | 1    | SNA    |        |
| ..3   |              | BN68-07835A | LABEL-STICKER LICENSE;40K5500,PET,0.125,     | 1    | SNA    |        |
| 1     |              | BN90-08023C | ASSY W/I;LEDTV 6K                            | 1    | SNA    |        |
| 0.2   |              | BN81-08159Z | A/S PART SET-ELEC W/I;LED TV ELEC spec-C     | 1    | SNA    |        |
| 0.2   |              | BN81-12851A | A/S PART SET-MECH W/I;UK6300E,U55KM*         | 1    | SNA    |        |
| 1     | S001A        | BN90-08054A | ASSY STAND;LEDTV 6K                          | 1    | SNA    |        |
| 0.2   |              | BN96-40078B | ASSY STAND P-FRONT;49K5500,ABS,BK0008,HB     | 1    | SA     |        |
| ..3   |              | 6001-003168 | SCREW-MACHINE;CH,+,M3,L5,ZPC(BLK),SWRCH1     | 2    | SNA    |        |
| ..3   |              | 6021-000265 | NUT-HEXAGON;2C,M4,ZPC(YEL),SM20C             | 4    | SNA    |        |
| ..3   |              | 6902-002660 | BAG PE;HDPE/PE FOAM,T0.015/T0.5,W120,L20     | 1    | SNA    |        |
| ..3   |              | BN60-00162E | SPACER-FOAM;PE FOAM,ROLL,GRAY,T0.5,W20       | 1    | SNA    |        |
| ..3   |              | BN61-13416A | BRACKET-STAND BOTTOM<br>FRONT;49K5500,SM45C  | 1    | SNA    |        |
| ..3   |              | BN61-13421A | BRACKET-STAND NECK FRONT;40K5500,HGI,T4,     | 1    | SNA    |        |
| ...4  |              | BN61-13531A | STUD-PEM;40K5500,SUM24L,NATURAL              | 1    | SNA    |        |
| ..3   |              | BN61-13427A | GUIDE-STAND FRONT;40K5500,PC+GF20%,V-2,G     | 1    | SNA    |        |
| ..3   |              | BN61-14106A | BRACKET-STAND LINK FRONT;49K5500,EGI-SEC     | 1    | SNA    |        |
| ..3   |              | BN63-15242B | COVER-STAND BOTTOM<br>FRONT;49K5500,ABS,MOL  | 1    | SNA    |        |
| ..3   |              | BN63-15764A | SHEET-PU FOAM;40K5500,PU FOAM,T0.3,W57,L     | 1    | SNA    |        |
| ..3   |              | BN68-05603A | LABEL-E PASS;ART PAPER 90G,W/W               | 2    | SNA    |        |
| ..3   |              | BN95-02804A | ASSY COVER STAND SMT-FRONT TOP;K6200,49,     | 1    | SNA    |        |
| ...4  |              | BN63-15239A | COVER-STAND TOP FRONT;49K5500,PC+ABS,MOL     | 1    | SNA    |        |
| 0.2   |              | BN96-40080B | ASSY STAND P-REAR;49K5500,ABS,BK0008,HB      | 1    | SA     |        |
| ..3   |              | 6001-001114 | SCREW-MACHINE;FH,+,-,M4,L6,ZPC(BLK),SWRC     | 2    | SA     |        |
| ..3   | SCREW        | 6003-001238 | SCREW-TAPTYPE;FH,+,S,M4,L8,ZPC(BLK),SWRC     | 2    | SA     |        |
| ..3   | SCREW        | 6003-001334 | SCREW-TAPTYPE;BH,+,S,M4,L14,ZPC(BLK),SWR     | 4    | SA     |        |
| ..3   |              | 6902-002661 | BAG PE;HDPE/PE FOAM,T0.015/T0.5,W140,L20     | 1    | SNA    |        |
| ..3   |              | BN60-00162G | SPACER-FOAM;PE FOAM,ROLL,GRAY,T0.5,W30       | 0    | SNA    |        |
| ..3   |              | BN61-13419A | BRACKET-STAND BOTTOM REAR;K5500 49" 55",     | 1    | SNA    |        |
| ..3   |              | BN61-13424A | BRACKET-STAND NECK REAR;K5500 40" 43",HG     | 1    | SNA    |        |
| ..3   |              | BN61-13430A | GUIDE-STAND REAR;40K5500,PC+GF20%,V-2,GY     | 1    | SNA    |        |
| ..3   | RF01         | BN61-13520B | FOOT-RUBBER;40K5500,Si,GRAY,T3,W5 L5         | 4    | SNA    |        |
| ..3   |              | BN63-11118E | SHEET-PROTECTION COVER;STANDARD<br>ENCLOSUR  | 2    | SNA    |        |
| ..3   |              | BN63-15248B | COVER-STAND BOTTOM<br>REAR;49K5500,ABS,MOLD  | 1    | SNA    |        |

| Level | Location No. | Code No.    | Description & Specification                  | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|----------------------------------------------|------|--------|--------|
| ..3   |              | BN63-15764B | SHEET-PU FOAM;55K5500,PU FOAM,T0.3,W57,L     | 1    | SNA    |        |
| ..3   |              | BN95-02806A | ASSY COVER STAND SMT-REAR TOP;K6200,49,S     | 1    | SNA    |        |
| ...4  |              | BN63-15245A | COVER-STAND TOP<br>REAR;49K5500,PC+ABS,MOLD  | 1    | SNA    |        |
| ..3   |              | BN96-35528C | ASSY ACCESSORY-SCREW;40K5500,W/<br>W,EN,BN61 | 1    | SNA    |        |
| 1     | M0017        | BN91-17271A | ASSY CHASSIS;LEDTV 6K                        | 1    | SNA    |        |
| 0.2   | M0014        | BN94-10794A | ASSY PCB MAIN;LEDTV 6K                       | 1    | SA     |        |
| ..3   | AH020        | BN62-00821A | HEAT SINK;49K6200,A1050,6.3T,W127.6,L94.     | 1    | SNA    |        |
| ..3   |              | BN63-15481A | COVER-TERMINAL SIDE;40K5500,HIPS,MOLD,HB     | 1    | SA     |        |
| ..3   |              | BN97-09470A | ASSY DRM;MAC, MIRACAST HDCP                  | 1    | SNA    |        |
| ...4  |              | BN46-00109H | KEY CODE-CERTIFICATION;MAC,TV/AV,General     | 1    | SNA    |        |
| ...4  |              | BN46-00110P | KEY CODE-CERTIFICATION;MIRACAST(HDCP2.2)     | 1    | SNA    |        |
| ..3   |              | BN97-10642A | ASSY SMD;LED TV 6K                           | 1    | SNA    |        |
| ...4  | DS01A        | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO     | 1    | SA     |        |
| ...4  |              | 0403-001783 | DIODE-ZENER;BZB84-C6V2,5.8~6.6V,300mW,SO     | 3    | SNA    |        |
| ...4  |              | 0404-001404 | DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,     | 4    | SA     |        |
| ...4  |              | 0406-001200 | DIODE-TVS;RClamp0504F,6V,1MAV,TP             | 2    | SA     |        |
| ...4  |              | 0406-001628 | DIODE-TVS;AOZ8804ADI,6V,1MAV,5A,TP           | 1    | SA     |        |
| ...4  |              | 0406-001635 | DIODE-TVS;SMF5.0A,6.4V,6.7V,7V,200MAV,20     | 7    | SA     |        |
| ...4  |              | 0501-000445 | TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT     | 3    | SC     |        |
| ...4  |              | 0504-000126 | TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4.7K,S     | 1    | SA     |        |
| ...4  |              | 0505-002560 | FET-SILICON;AO6415,P,20V,-3.3A,0.15ohm,1     | 1    | SA     |        |
| ...4  |              | 0505-002598 | FET-SILICON;AP2317GN,P,20V,-4.2A,0.052oh     | 1    | SA     |        |
| ...4  |              | 0505-002893 | FET-SILICON;AO4801AS,P,30V,-5A,2W,SOIC-8     | 1    | SA     |        |
| ...4  |              | 0505-003397 | FET-SILICON;2N7002K,N,60V,0.38A,1.19ohm,     | 2    | SA     |        |
| ...4  |              | 0505-003507 | FET-SILICON;AO3424,N,30V,3.8A,1.4W,SOT-2     | 4    | SA     |        |
| ...4  |              | 0801-002780 | IC-CMOS LOGIC;74LVC1G17,SCHMITT-TRIGGER      | 1    | SA     |        |
| ...4  |              | 1001-001545 | IC-ANALOG MULTIPLEX;TS3USB221ERSER,R-PQF     | 1    | SA     |        |
| ...4  |              | 1103-001600 | IC-EEPROM;24C512C,512k,SOIC,8P,6.20mmX5.     | 1    | SA     |        |
| ...4  |              | 1105-002681 | IC-DDR3 SDRAM;H5TQ4G63CFR,DDR3 1866,4Gbi     | 3    | SNA    |        |
| ...4  |              | 1201-003690 | IC-AUDIO AMP;TAS5747PHPR,QFP,48P,DUAL,PL     | 1    | SA     |        |
| ...4  |              | 1203-004364 | IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,     | 1    | SA     |        |
| ...4  |              | 1203-007018 | IC-DC/DC CONVERTER;TPS54821RHL,QFN,14,3.     | 1    | SA     |        |
| ...4  |              | 1203-007238 | IC-PWM CONTROLLER;TPS54427,DDA,8P,4.8x3.     | 1    | SNA    |        |
| ...4  |              | 1203-007700 | IC-DC/DC CONVERTER;TPS54527DDAR,DDA,8P,5     | 1    | SA     |        |
| ...4  |              | 1203-008104 | IC-POSI.FIXED REG.;S-13A1D18-E800,HSOP,8     | 3    | SNA    |        |
| ...4  |              | 1203-008105 | IC-POSI.FIXED REG.;S-13A1D33-E800,HSOP,8     | 1    | SNA    |        |
| ...4  |              | 1203-008118 | IC-DC/DC CONVERTER;AOZ3013PI,SO-8,8,4.96     | 2    | SA     |        |
| ...4  |              | 1203-008183 | IC-DC/DC CONVERTER;AOZ3015PI-1,EPAD SO-8     | 1    | SA     |        |
| ...4  |              | 1203-008392 | IC-VOL. DETECTOR;S-6414AAB-L800X,TSOT-23     | 1    | SA     |        |
| ...4  |              | 1203-008393 | IC-DDR TERMINATION REG.;AP2303MTR-G1-89,     | 1    | SA     |        |
| ...4  |              | 1203-008454 | IC-DC/DC CONVERTER;TPS56528,HSOP8,8,4,89     | 1    | SA     |        |
| ...4  |              | 1204-003586 | IC-DECODER;SDP1415,PBGA,631P,23x23mm,PLA     | 1    | SA     |        |
| ...4  |              | 1205-004983 | IC-SWITCH;BD82032FVJ,TSSOP-B8J,8P,3.0x4.     | 2    | SA     |        |
| ...4  |              | 1205-005537 | IC-REPEATER;TCA9517,VSSOP,8P,3.00x3.00mm     | 3    | SA     |        |
| ...4  |              | 1405-001271 | VARISTOR;35V,20Vdc,5A,1.0x0.5mm,TP,100V,     | 15   | SA     |        |
| ...4  |              | 2007-000137 | R-CHIP;2Kohm,5%,1/16W,TP,1005                | 16   | SNA    |        |

ANNEX. Exploded View & Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005           | 21   | SNA    |        |
| ...4  |              | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005             | 35   | SA     |        |
| ...4  |              | 2007-000173 | R-CHIP;22ohm,5%,1/16W,TP,1005            | 1    | SA     |        |
| ...4  |              | 2007-000174 | R-CHIP;47ohm,5%,1/16W,TP,1005            | 26   | SA     |        |
| ...4  |              | 2007-000932 | R-CHIP;470ohm,5%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-001116 | R-CHIP;680ohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-001125 | R-CHIP;68Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-001288 | R-CHIP;18ohm,5%,1/16W,TP,1005            | 4    | SA     |        |
| ...4  |              | 2007-001292 | R-CHIP;33ohm,5%,1/16W,TP,1005            | 5    | SA     |        |
| ...4  |              | 2007-007107 | R-CHIP;100Kohm,1%,1/16W,TP,1005          | 13   | SNA    |        |
| ...4  |              | 2007-007132 | R-CHIP;15Kohm,1%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-007133 | R-CHIP;300ohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007134 | R-CHIP;39Kohm,1%,1/16W,TP,1005           | 2    | SA     |        |
| ...4  |              | 2007-007135 | R-CHIP;18Kohm,1%,1/16W,TP,1005           | 2    | SNA    |        |
| ...4  |              | 2007-007136 | R-CHIP;4.7Kohm,1%,1/16W,TP,1005          | 2    | SNA    |        |
| ...4  |              | 2007-007137 | R-CHIP;1.2Kohm,1%,1/16W,TP,1005          | 4    | SA     |        |
| ...4  |              | 2007-007138 | R-CHIP;27Kohm,1%,1/16W,TP,1005           | 3    | SA     |        |
| ...4  |              | 2007-007142 | R-CHIP;10Kohm,1%,1/16W,TP,1005           | 22   | SA     |        |
| ...4  |              | 2007-007307 | R-CHIP;150ohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007309 | R-CHIP;12Kohm,1%,1/16W,TP,1005,T0.35     | 3    | SA     |        |
| ...4  |              | 2007-007311 | R-CHIP;22Kohm,1%,1/16W,TP,1005           | 6    | SA     |        |
| ...4  |              | 2007-007312 | R-CHIP;20Kohm,1%,1/16W,TP,1005           | 2    | SA     |        |
| ...4  |              | 2007-007313 | R-CHIP;6.8Kohm,1%,1/16W,TP,1005          | 2    | SA     |        |
| ...4  |              | 2007-007317 | R-CHIP;2.2Kohm,1%,1/16W,TP,1005          | 1    | SA     |        |
| ...4  |              | 2007-007318 | R-CHIP;1Kohm,1%,1/16W,TP,1005            | 21   | SA     |        |
| ...4  |              | 2007-007470 | R-CHIP;7.5Kohm,1%,1/16W,TP,1005          | 1    | SNA    |        |
| ...4  |              | 2007-007488 | R-CHIP;75Kohm,1%,1/16W,TP,1005           | 1    | SNA    |        |
| ...4  |              | 2007-007528 | R-CHIP;1.5Kohm,1%,1/16W,TP,1005          | 1    | SA     |        |
| ...4  |              | 2007-007587 | R-CHIP;3.6Kohm,1%,1/16W,TP,1005          | 1    | SNA    |        |
| ...4  |              | 2007-007767 | R-CHIP;200ohm,1%,1/16W,TP,1005           | 7    | SA     |        |
| ...4  |              | 2007-007861 | R-CHIP;62Kohm,1%,1/16W,TP,1005           | 1    | SA     |        |
| ...4  |              | 2007-007942 | R-CHIP;1Mohm,1%,1/16W,TP,1005            | 1    | SNA    |        |
| ...4  |              | 2007-008015 | R-CHIP;75ohm,1%,1/16W,TP,1005            | 14   | SA     |        |
| ...4  |              | 2007-008275 | R-CHIP;30Kohm,1%,1/16W,TP,1005           | 3    | SNA    |        |
| ...4  |              | 2007-008298 | R-CHIP;49.9ohm,1%,1/16W,TP,1005          | 4    | SA     |        |
| ...4  |              | 2007-008429 | R-CHIP;499ohm,1%,1/16W,TP,1005           | 1    | SNA    |        |
| ...4  |              | 2007-008485 | R-CHIP;22ohm,1%,1/16W,TP,1005            | 9    | SC     |        |
| ...4  |              | 2007-008779 | R-CHIP;0ohm,1%,1/16W,TP,1005             | 4    | SA     |        |
| ...4  |              | 2007-009117 | R-CHIP;49.9Kohm,1%,1/16W,TP,1005         | 1    | SA     |        |
| ...4  |              | 2007-009777 | R-CHIP;4.99Kohm,1%,1/16W,TP,1005         | 1    | SA     |        |
| ...4  |              | 2011-001449 | R-NETWORK;22ohm,5%,1/16W,L,4P,TP,1.0x1.0 | 3    | SA     |        |
| ...4  |              | 2011-001497 | R-NETWORK;470ohm,5%,1/16W,L,CHIP,4P,TP,1 | 1    | SNA    |        |
| ...4  | AD480        | 2203-000233 | C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005      | 5    | SA     |        |
| ...4  | AD480        | 2203-000278 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005  | 2    | SA     |        |
| ...4  | AD480        | 2203-000359 | C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5 | 3    | SA     |        |
| ...4  | AD480        | 2203-000386 | C-CER,CHIP;0.015nF,5%,50V,C0G,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000489 | C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005     | 3    | SA     |        |

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  | AD480        | 2203-000585 | C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005    | 3    | SA     |        |
| ...4  | AD480        | 2203-000627 | C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005    | 2    | SNA    |        |
| ...4  | AD480        | 2203-000714 | C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005     | 2    | SA     |        |
| ...4  | AD480        | 2203-000812 | C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005    | 5    | SA     |        |
| ...4  | AD480        | 2203-000854 | C-CER,CHIP;0.039nF,5%,50V,C0G,TP,1005    | 1    | SA     |        |
| ...4  | AD480        | 2203-000940 | C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000995 | C-CER,CHIP;0.047nF,5%,50V,C0G,TP,1005    | 1    | SA     |        |
| ...4  | AD480        | 2203-002285 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1005      | 9    | SNA    |        |
| ...4  | AD480        | 2203-003019 | C-CER,CHIP;8.2nF,10%,50V,X7R,TP,1005     | 2    | SNA    |        |
| ...4  | AD480        | 2203-005083 | C-CER,CHIP;220nF,10%,50V,X7R,TP,1608,0.8 | 6    | SA     |        |
| ...4  | AD480        | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1608     | 6    | SA     |        |
| ...4  | AD480        | 2203-005968 | C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5 | 4    | SNA    |        |
| ...4  | AD480        | 2203-006048 | C-CER,CHIP;100nF,10%,10V,X7R,TP,1005     | 61   | SA     |        |
| ...4  | AD480        | 2203-006126 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1005      | 3    | SNA    |        |
| ...4  | AD480        | 2203-006158 | C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,T0. | 196  | SA     |        |
| ...4  | AD480        | 2203-006257 | C-CER,CHIP;470nF,10%,6.3V,X5R,TP,1005,0. | 1    | SNA    |        |
| ...4  | AD480        | 2203-006324 | C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608    | 2    | SA     |        |
| ...4  | AD480        | 2203-006838 | C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005   | 11   | SA     |        |
| ...4  | AD480        | 2203-006890 | C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608  | 54   | SNA    |        |
| ...4  | AD480        | 2203-007176 | C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1 | 9    | SNA    |        |
| ...4  | AD480        | 2203-007269 | C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2 | 14   | SA     |        |
| ...4  | AD480        | 2203-007513 | C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0 | 22   | SA     |        |
| ...4  | AD480        | 2203-007544 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,0.5 | 14   | SA     |        |
| ...4  |              | 2703-000158 | INDUCTOR-SMD;1uH,10%,0.4Ohm,50mA,45,Mult | 1    | SA     |        |
| ...4  |              | 2703-000213 | INDUCTOR-SMD;470nH,10%,1.35Ohm,35mA,15,M | 1    | SA     |        |
| ...4  |              | 2703-001938 | INDUCTOR-SMD;56nH,5%,1005,1.5Ohm,200mA,1 | 3    | SA     |        |
| ...4  |              | 2703-003937 | INDUCTOR-SMD;1uH,20%,7.0x6.47x3.0mm,0.00 | 1    | SA     |        |
| ...4  |              | 2703-004724 | INDUCTOR-SMD;8.2uH,20%,4T,0.072Ohm,2300m | 4    | SA     |        |
| ...4  |              | 2703-005191 | INDUCTOR-SMD;1.5uH,20%,4.5,0.02Ohm,5300m | 2    | SA     |        |
| ...4  |              | 2703-005192 | INDUCTOR-SMD;4.7uH,20%,4.5,0.036Ohm,4200 | 2    | SA     |        |
| ...4  |              | 2703-005194 | INDUCTOR-SMD;3.3uH,20%,4.5,0.03Ohm,4500m | 1    | SA     |        |
| ...4  |              | 2801-004021 | CRYSTAL-SMD;24.576MHz,20ppm,28-AAN,12pF, | 1    | SA     |        |
| ...4  |              | 3301-001364 | BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz, | 7    | SNA    |        |
| ...4  |              | 3301-002039 | BEAD-SMD;26ohm,1608,TP                   | 54   | SA     |        |
| ...4  |              | 3701-001949 | CONNECTOR-HDMI;19P,A,FEMALE,AU,0.5mm,BLK | 3    | SA     |        |
| ...4  |              | 3707-001104 | CONNECTOR-OPTICAL;ANGLE,SPDIF            | 1    | SA     |        |
| ...4  | EH01         | 3711-005477 | HEADER-BOARD TO CABLE;BOX,4P,1R,2.0mm,SM | 1    | SA     |        |
| ...4  |              | 3711-007585 | CONNECTOR-HEADER;BOX,4P,1R,2.5mm,ANGLE,S | 1    | SA     |        |
| ...4  |              | 3711-007776 | CONNECTOR-HEADER;BOX,8P,1R,1.25mm,SMD-A, | 2    | SA     |        |
| ...4  | EH01         | 3711-008859 | HEADER-BOARD TO CABLE;BOX,12P,2R,2mm,ANG | 1    | SA     |        |
| ...4  |              | 3711-009090 | CONNECTOR-HEADER;BOX,16P,1R,1.25mm,SMD-A | 1    | SA     |        |
| ...4  |              | 3722-003199 | JACK-MODULAR;8P/8C,Y,ANGLE,NONE,AU,1PORT | 1    | SA     |        |
| ...4  |              | 3722-003457 | JACK-USB;4P/1C,NI,BLK,ANGLE,A,2.0,13.1x1 | 2    | SA     |        |
| ...4  |              | 3722-003814 | JACK-PHONE;1P/7C,NI/SN,YEL,ANGLE,3.5PI,1 | 1    | SA     |        |
| ...4  | JACK         | 3722-003873 | JACK-PHONE;1P/7C,AU/SN,BLU,ANGLE,3.5PI,1 | 1    | SA     |        |
| ...4  |              | 6302-001376 | GASKET-SMD;;;CONDUCTIVE FABRIC,T14,W43,L | 8    | SNA    |        |
| ...4  |              | BN40-00321A | TUNER-DTV AIR CABLE;DTVS20EH6A,DTVS20EH6 | 1    | SA     |        |

ANNEX. Exploded View & Part List

| Level | Location No. | Code No.    | Description & Specification               | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|-------------------------------------------|------|--------|--------|
| ...4  |              | BN41-02534A | PCB-MAIN;K5500/6200/6300,FR-4,4L,1.2T,19  | 1    | SNA    |        |
| ...4  | CB07         | BN61-13312B | BRACKET-PCB;55KS8000,SK5,0.3,13.7,11.4,S  | 4    | SNA    |        |
| ...4  |              | BN97-10911A | ASSY MICOM-MAIN;T-HKMFKAKUC,UWK60,THGBMB  | 1    | SNA    |        |
| ...5  |              | 1107-002341 | IC-EMMC;THGBMBG5D1KBAIT,4GB,BGA,153P,11x  | 1    | SA     |        |
| ...4  |              | BN97-10913A | ASSY MICOM-SUB;HMMICOM_16_FHD,UWK60,GD25  | 1    | SNA    |        |
| ...5  |              | 1107-002467 | IC-NOR FLASH;GD25Q41BSIGY,4Mbit,SOP,8P,5  | 1    | SA     |        |
| 1     |              | BN91-17303A | ASSY SHIELD;LEDTV 6K                      | 1    | SNA    |        |
| 0.2   | SCREW        | 6001-003016 | SCREW-MACHINE;PWH,+,M3.0,L5.0,ZPC(WHT),S  | 5    | SA     |        |
| 0.2   |              | BN02-00102K | TAPE-FILAMENT;FILAMENT,T0.15,W25,ROLL,WH  | 0    | SNA    |        |
| 0.2   | 16P250       | BN39-02212A | LEAD CONNECTOR-SUB ASSY;65KS9000,UL21451  | 1    | SA     |        |
| 0.2   |              | BN39-02217E | LEAD CONNECTOR-POWER;55K6200,UL21016,12P  | 1    | SA     |        |
| 0.2   |              | BN39-02223C | LEAD CONNECTOR-SUB ASSY;55K6200,UL21016,  | 1    | SA     |        |
| 0.2   |              | BN44-00872A | DC VSS-PD BOARD;L55E1_KDY,AC/DC,105W,100  | 1    | SA     |        |
| 0.2   | WIFI         | BN59-01239A | NETWORK-WLAN CLIENT;WCK730B,USB 2.0,16P,  | 1    | SA     |        |
| 0.2   | CB18         | BN61-13287A | BRACKET-STAND LINK;40K5500,EGI-SECC,T1.6  | 1    | SNA    |        |
| 0.2   | RB01         | BN63-15932A | COVER-BOTTOM;49K6200,PC+ABS+ED20%,MOL D,V | 1    | SNA    |        |
| 0.2   |              | BN96-39802B | ASSY BOARD P-FUNCTION TACT;K6200/K5500/K  | 1    | SA     |        |
| 0.2   |              | BN96-39974A | ASSY SPEAKER P-FRONT;6ohm,10,US only      | 1    | SA     |        |
| 0.2   |              | BN96-40209E | FFC CABLE;55K6200,Wrinkle,L500,51P        | 1    | SA     |        |
| 1     |              | BN92-19840A | ASSY BOX;LEDTV 6K                         | 1    | SNA    |        |
| 0.2   |              | BH68-00697A | LABEL BOX;ALL,ART,90g,W60,L100,WHT,NO SI  | 1    | SNA    |        |
| 0.2   |              | BN69-13720F | BOX UNIT;55K6250,CB,DW3,F1,L1313,W157,H7  | 1    | SNA    |        |
| 1     |              | BN92-19870A | ASSY LABEL;LEDTV 6K                       | 1    | SNA    |        |
| 0.2   |              | BN68-05050A | LABEL-RATING;ALL MODEL,SS,PE,T0.05,W93,L  | 1    | SNA    |        |
| 0.2   |              | BN68-07854N | LABEL-ENERGY;UN55K6250AFXZA,PET,T0.1,38,  | 1    | SNA    |        |
| 0.2   |              | BN68-07909A | LEAFLET-QUICK SETUP GUIDE;K6250,ZA,W/P,A  | 1    | SNA    |        |
| 0.2   |              | BN74-00053G | TAPE-PAPER;PAPER,3M2307,0.14T,W10,60M,WH  | 0    | SNA    |        |
| 1     | ACCE1        | BN92-19898A | ASSY ACCESSORY;LEDTV 6K                   | 1    | SNA    |        |
| 0.2   |              | BN96-39494A | ASSY ACCESSORY-MANUAL CABLE;UK6M          | 1    | SNA    |        |
| ..3   | T0268        | 3903-001117 | CBF-POWER CORD;DT,USA,Angle,2P(C7),125V,  | 1    | SA     |        |
| ..3   |              | 4301-000101 | BATTERY-ALKALINE;1.5V,1650mAh,LR6,14.5x5  | 2    | SNA    |        |
| ..3   |              | 6902-001962 | BAG PE;LDPE,BIOBASED,T0.05,W400,L300,TRP  | 1    | SNA    |        |
| ..3   | EC03         | BN39-02189A | GENDER CABLE;DC to RCA Cable,3P,L100,UL2  | 1    | SA     |        |
| ..3   | EC03         | BN39-02190A | GENDER CABLE;DC to RCA Cable,2P,L100,UL2  | 1    | SA     |        |
| ..3   |              | BN59-01260A | REMOCON-SMART CONTROL;2016 TV,Samsung,13  | 1    | SA     |        |
| ..3   |              | BN68-04972E | LEAFLET-REGULATORY GUIDE;ALL,SAMSUNG,W/W  | 1    | SNA    |        |
| ..3   |              | BN68-05723A | LABEL-ACCESSORY;ALL MODELS,YUPO,T0.2,W20  | 1    | SNA    |        |
| ..3   |              | BN68-07908A | MANUAL USERS;K6250,ZA,W/P,00              | 1    | SNA    |        |
| ..3   |              | BN96-40152A | ASSY HOLDER P-CABLE;65KS7500,ABS,BK0007,  | 1    | SNA    |        |
| ...4  |              | BN61-04692A | ADHESIVE-AA;SHEET,CLEAR,C043              | 0    | SNA    |        |
| ...4  |              | BN61-05704A | TAPE-DOUBLE FACE;T1.1,W8,Dark Gray,3M #4  | 0    | SNA    |        |
| ...4  | AH089        | BN61-13777A | HOLDER-CABLE;55KS7500,ABS,T15,BK0007,HB,  | 1    | SNA    |        |
| ...4  | AS080        | BN63-07556W | SHEET-PROTECTION COVER;F-LED,PO,W12,ROLL  | 0    | SNA    |        |
| ..3   | EH03A        | BN96-40460A | ASSY HOLDER P-RING;55KS7500,ABS,BLACK,V-  | 1    | SNA    |        |

| Level | Location No. | Code No.    | Description & Specification               | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|-------------------------------------------|------|--------|--------|
| ...4  |              | 6902-001404 | BAG PE;LDPE,T0.05,W80,L100,TRP,N          | 1    | SNA    |        |
| ...4  |              | BN61-13518A | HOLDER-WALL RING;55KS7500,ABS,MOLD,BK000  | 4    | SA     |        |
| 1     |              | BN92-19930A | ASSY P/MATERIAL;LEDTV 6K                  | 1    | SNA    |        |
| 0.2   |              | 6902-001611 | BAG ROLL;HDPE/PE FOAM,T0.5/T0.015,W1500,  | 2    | SNA    |        |
| 0.2   |              | 6922-000013 | BAND;PP,W18,L2300/L2900,TRP               | 1    | SNA    |        |
| 0.2   |              | BH69-00418A | WRAP;762,1828M,SAMEX FACTORY              | 2    | SNA    |        |
| 0.2   |              | BN02-00319B | TAPE-OPP;OPP,T0.05,W75,L800m,CLEAR        | 3    | SNA    |        |
| 0.2   | AS080        | BN63-07229A | SHEET-PROTECTION COVER;rose70",PET,T0.05  | 1    | SNA    |        |
| 0.2   |              | BN68-02422B | LABEL-WARNING;ALL,ART,T0.05,W240,L100,Wh  | 1    | SNA    |        |
| 0.2   |              | BN69-12806A | PACKING ANGLE;40J6400,PAPER               | 1    | SNA    |        |
| 0.2   |              | BN69-13244A | CUSHION-SET SIDE;55K6200,EPS,16.7g/l,WHT  | 1    | SNA    |        |
| 0.2   |              | BN69-13622B | PAD-CUSHION FRONT;55KS7500,CB,DW2+EPE,W6  | 1    | SNA    |        |
| 0.2   |              | BN69-13653A | CUSHION-SET;55K6200,EPS,16.7g/l,WHT,FLAT  | 1    | SNA    |        |
| 1     |              | BN95-02625C | PRODUCT LCD-SDC;CY-VK055BGLV3V/H,K6300,D  | 1    | SA     |        |
| 0.2   | SCREW        | 6001-002757 | SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1  | 4    | SA     |        |
| 0.2   |              | BN68-05595A | LABEL-STICKER;ART 100G,T0.2,W80X23,WHITE  | 1    | SNA    |        |
| 0.2   |              | BN74-00053E | TAPE-PAPER;PAPER,3M2307,0.14T,W20,50m,WH  | 0    | SNA    |        |
| 0.2   |              | BN90-08206A | ASSY MISC-BLU;Y16,LCM                     | 1    | SNA    |        |
| ..3   |              | BN61-13755A | OPTICAL SHEET-COMPLEX;16Y_K5500_55INCH_C  | 1    | SNA    |        |
| ..3   |              | BN61-13756A | LGP;16Y_K5500_55INCH_LGP,PMMA,Left LED,2  | 1    | SNA    |        |
| ..3   |              | BN61-13757A | OPTICAL SHEET-REFLECTOR;16Y_K5500_55INCH  | 1    | SNA    |        |
| ..3   |              | BN61-13970A | OPTICAL SHEET-DIFFUSER;16Y_K5500_55INCH_  | 1    | SNA    |        |
| ..3   |              | BN96-39509A | ASSY LED BAR P;55 K6200(SDC),ALUMINUM,70  | 1    | SNA    |        |
| ..3   |              | BN96-39691A | ASSY CHASSIS REAR P;55K6200,EGI SECC AG+  | 1    | SNA    |        |
| ...4  |              | BN02-00102B | TAPE-FILAMENT;#8917,0.15,25,50,WHITE      | 0    | SNA    |        |
| ...4  |              | BN02-00500A | TAPE THERMAL;55K6200,ACRYL,T0.2,W19.2,L6  | 1    | SNA    |        |
| ...4  |              | BN39-02181A | LEAD CONNECTOR-BLU;55 K6200,UL21016,12P,  | 1    | SNA    |        |
| ...4  |              | BN60-01462A | SPACER-SILICONE;55K6200,Si,L6,BLACK,T3.5  | 2    | SNA    |        |
| ...4  |              | BN61-08235A | HOLDER-LGP;SNB,SWRCH10A,BLACK,PRESS       | 1    | SNA    |        |
| ...4  |              | BN61-11982B | HOLDER-WALL RIVET;55KS7000,CR-SPCC,EXTRU  | 4    | SNA    |        |
| ...4  |              | BN61-13459A | FRAME-MIDDLE TOP LEFT;49K6200,TPV,HB,BK0  | 1    | SNA    |        |
| ...4  |              | BN61-13460A | FRAME-MIDDLE TOP RIGHT;49K6200,TPV,HB,BK  | 1    | SNA    |        |
| ...4  |              | BN61-13461A | FRAME-MIDDLE BOTTOM LEFT;49K6200,TPV,HB,  | 1    | SNA    |        |
| ...4  |              | BN61-13462A | FRAME-MIDDLE BOTTOM RIGHT;49K6200,TPV,HB  | 1    | SNA    |        |
| ...4  |              | BN61-13557A | BRACKET-WIRE;KS7000,SW-C,1,60,SILVER      | 4    | SA     |        |
| ...4  |              | BN61-13557F | BRACKET-WIRE;KS7000,SW-C,1,SILVER,ZINC P  | 2    | SA     |        |
| ...4  |              | BN61-13557H | BRACKET-WIRE;55KS7000,SW-C,T1,NATURAL,ZI  | 2    | SA     |        |
| ...4  |              | BN63-15531A | INSULATOR-SMPS;40K5500,PC,BLACK,L159.95,  | 1    | SNA    |        |
| ...4  |              | BN63-15795B | INSULATOR-SOURCE PCB;55K6200,PET,BLACK,L  | 1    | SNA    |        |
| ...4  | CC04         | BN64-03415A | CHASSIS-REAR;55K6200,EGI-SECC,PRESS,T0.8  | 1    | SNA    |        |
| ...4  | T0527        | BN68-00513A | LABEL-E PASS;ALL MODEL,VVV,YUPO,W50,L15,W | 1    | SNA    |        |
| ..3   |              | BN96-40896A | ASSY FRAME P-MIDDLE LEFT;55K6200,STS304,  | 1    | SNA    |        |
| ...4  |              | BN60-01431A | SPACER-PET;55K6200,PET,L677.9,GRAY,T0.06  | 2    | SNA    |        |
| ...4  |              | BN61-14147A | FRAME-MIDDLE LEFT;55K6200,STS304,PRESS,N  | 1    | SNA    |        |
| 0.2   | TCON         | BN95-02677A | ASSY T CON;K6300 55inch,Hawk-FTs          | 1    | SA     |        |
| ..3   |              | BN02-00417A | TAPE THERMAL;Hawk-FTs,PET,W65,L120,BLACK  | 1    | SNA    |        |
| ..3   | T0527        | BN68-00513A | LABEL-E PASS;ALL MODEL,VVV,YUPO,W50,L15,W | 2    | SNA    |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...3  |              | BN97-10799A | ASSY SMD;K6500,Hawk-FTs SDC MJC Curved 5 | 1    | SNA    |        |
| ...4  |              | 0202-001976 | SOLDER-CREAM;LST-309M-K21,20~38um,96.5Sn | 4    | SNA    |        |
| ...4  |              | 0403-000489 | DIODE-ZENER;MMSZ5228B,3.705~4.095V,500mW | 6    | SA     |        |
| ...4  |              | 0403-001831 | DIODE-ZENER;KDZ12B,12~13.5V,1000mW,SOD-1 | 1    | SA     |        |
| ...4  |              | 0403-002014 | DIODE-ZENER;KDZ16B,16.2~18.3V,1000mW,SOD | 2    | SNA    |        |
| ...4  |              | 0404-001640 | DIODE-SCHOTTKY;SS1060HEWS,60V,1000mA,SOD | 1    | SA     |        |
| ...4  |              | 0404-001643 | DIODE-SCHOTTKY;B360A,60V,3000mA,SMA,TP   | 1    | SA     |        |
| ...4  |              | 0406-001689 | DIODE-TVS;SMH14A,15.6V,17.9V,1MAV,40A,TP | 1    | SA     |        |
| ...4  |              | 0406-001712 | DIODE-TVS;P4SMAJ30A,33.3V,36.8V,1MAV,40A | 1    | SNA    |        |
| ...4  |              | 0406-001745 | DIODE-TVS;P4SMAFJ18A-HAF,20V,21.5V,23.3V | 1    | SNA    |        |
| ...4  |              | 0505-002660 | FET-SILICON;Si2308BDS,N,60V,2.3A,0.156oh | 1    | SNA    |        |
| ...4  |              | 0505-003224 | FET-SILICON;AO6405,P,30V,-5A,0.052ohm,2W | 1    | SA     |        |
| ...4  | EL02         | 0601-002037 | LED;SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470 | 2    | SA     |        |
| ...4  |              | 0801-002345 | IC-CMOS LOGIC;7S04,INVERTER,SOT-353,5P,2 | 1    | SA     |        |
| ...4  |              | 0801-003580 | IC-CMOS LOGIC;TC7WB66CFK,SSOP,8P,2.0X2.3 | 3    | SA     |        |
| ...4  |              | 1105-002274 | IC-DDR3 SDRAM;K4B1G1646G-BCMA,DDR3 1866, | 1    | SNA    |        |
| ...4  |              | 1201-002779 | IC-OP AMP;IML7814HS-HF,TSSOP,TP,14P,5x4. | 1    | SA     |        |
| ...4  |              | 1203-006130 | IC-POS.FIXED REG.;S-1172B25-U5T1G,SOT-8  | 1    | SA     |        |
| ...4  |              | 1203-007955 | IC-DC/DC CONVERTER;BM81222MWV,QFN,48P,6x | 1    | SNA    |        |
| ...4  |              | 1203-008102 | IC-POS.FIXED REG.;S-13A1D12-E800,HSOP,8  | 1    | SNA    |        |
| ...4  |              | 1203-008258 | IC-DC/DC CONVERTER;SY8106RAC,QFN,20,3x3x | 1    | SA     |        |
| ...4  |              | 1203-008551 | IC-DC/DC CONVERTER;BM81244,QFN,40P,6x6mm | 1    | SNA    |        |
| ...4  |              | 1204-003557 | IC-VIDEO PROCESS;SDP1401,PBGAH,553P,23x2 | 1    | SA     |        |
| ...4  |              | 1404-001731 | THERMISTOR-NTC;33Kohm,4050K,1mW/C,TP,1.6 | 1    | SNA    |        |
| ...4  |              | 1405-001381 | VARISTOR;11V,8Vdc,30A,1.6x0.8mm,TP,25V,5 | 9    | SA     |        |
| ...4  |              | 1405-001382 | VARISTOR;24.5V,16VDC,120A,2.0x1.25mm,TP, | 2    | SA     |        |
| ...4  |              | 1405-001391 | VARISTOR;32V,5Vdc,5A,2.1x1.25mm,TP,80V,1 | 6    | SA     |        |
| ...4  |              | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608            | 5    | SA     |        |
| ...4  |              | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608           | 3    | SA     |        |
| ...4  |              | 2007-000067 | R-CHIP;15Kohm,1%,1/10W,TP,1608           | 1    | SNA    |        |
| ...4  |              | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608             | 8    | SA     |        |
| ...4  |              | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608            | 1    | SA     |        |
| ...4  |              | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608            | 10   | SA     |        |
| ...4  |              | 2007-000138 | R-CHIP;100ohm,5%,1/16W,TP,1005           | 10   | SA     |        |
| ...4  |              | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005            | 4    | SA     |        |
| ...4  |              | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005          | 57   | SA     |        |
| ...4  |              | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005           | 4    | SA     |        |
| ...4  |              | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005          | 1    | SA     |        |
| ...4  |              | 2007-000172 | R-CHIP;10ohm,5%,1/16W,TP,1005            | 6    | SNA    |        |
| ...4  |              | 2007-000265 | R-CHIP;1.8Kohm,1%,1/10W,TP,1608          | 1    | SA     |        |
| ...4  |              | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608            | 1    | SA     |        |
| ...4  |              | 2007-000336 | R-CHIP;120Kohm,1%,1/10W,TP,1608          | 1    | SA     |        |
| ...4  |              | 2007-000455 | R-CHIP;18Kohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-000516 | R-CHIP;2.7Kohm,1%,1/10W,TP,1608          | 2    | SA     |        |
| ...4  |              | 2007-000536 | R-CHIP;200ohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-000614 | R-CHIP;24Kohm,1%,1/10W,TP,1608           | 1    | SNA    |        |

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 2007-000651 | R-CHIP;27Kohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-000669 | R-CHIP;2Kohm,1%,1/10W,TP,1608,T0.45      | 1    | SNA    |        |
| ...4  |              | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608          | 3    | SNA    |        |
| ...4  |              | 2007-000939 | R-CHIP;47Kohm,1%,1/10W,TP,1608           | 1    | SA     |        |
| ...4  |              | 2007-000962 | R-CHIP;5.1Kohm,1%,1/10W,TP,1608          | 2    | SA     |        |
| ...4  |              | 2007-000999 | R-CHIP;510ohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-001068 | R-CHIP;6.8Kohm,1%,1/10W,TP,1608          | 1    | SA     |        |
| ...4  |              | 2007-001206 | R-CHIP;82Kohm,1%,1/10W,TP,1608           | 1    | SNA    |        |
| ...4  |              | 2007-001298 | R-CHIP;51ohm,5%,1/16W,TP,1005            | 7    | SNA    |        |
| ...4  |              | 2007-001433 | R-CHIP;12Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-002899 | R-CHIP;10ohm,1%,1/10W,TP,1608            | 1    | SA     |        |
| ...4  |              | 2007-007139 | R-CHIP;47Kohm,1%,1/16W,TP,1005,T0.35     | 6    | SA     |        |
| ...4  |              | 2007-007306 | R-CHIP;100ohm,1%,1/16W,TP,1005           | 19   | SNA    |        |
| ...4  |              | 2007-007431 | R-CHIP;91Kohm,1%,1/10W,TP,1608           | 2    | SA     |        |
| ...4  |              | 2007-007517 | R-CHIP;240ohm,1%,1/16W,TP,1005           | 7    | SNA    |        |
| ...4  |              | 2007-007651 | R-CHIP;9.1Kohm,1%,1/10W,TP,1608          | 1    | SA     |        |
| ...4  |              | 2007-007766 | R-CHIP;2Kohm,1%,1/16W,TP,1005            | 6    | SA     |        |
| ...4  |              | 2007-008213 | R-CHIP;4.3Kohm,1%,1/16W,TP,1005          | 5    | SA     |        |
| ...4  |              | 2007-008596 | R-CHIP;0.1ohm,1%,1/4W,TP,3216            | 2    | SC     |        |
| ...4  |              | 2011-001264 | R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2. | 4    | SNA    |        |
| ...4  | AD480        | 2203-000125 | C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608     | 1    | SA     |        |
| ...4  | AD480        | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608      | 1    | SA     |        |
| ...4  | AD480        | 2203-000425 | C-CER,CHIP;0.018nF,5%,50V,C0G,TP,1005    | 2    | SA     |        |
| ...4  | AD480        | 2203-000438 | C-CER,CHIP;1nF,10%,50V,X7R,TP,1005       | 16   | SA     |        |
| ...4  | AD480        | 2203-002494 | C-CER,CHIP;470nF,10%,16V,X7R,TP,2012     | 1    | SNA    |        |
| ...4  | AD480        | 2203-002711 | C-CER,CHIP;100nF,10%,25V,X7R,TP,1608     | 3    | SA     |        |
| ...4  | AD480        | 2203-005138 | C-CER,CHIP;1.8nF,10%,50V,X7R,TP,1005     | 3    | SA     |        |
| ...4  | AD480        | 2203-005344 | C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,0.5T | 3    | SNA    |        |
| ...4  | AD480        | 2203-006307 | C-CER,CHIP;1000nF,10%,25V,X5R,TP,2012    | 3    | SNA    |        |
| ...4  | AD480        | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0. | 4    | SA     |        |
| ...4  | AD480        | 2203-006399 | C-CER,CHIP;1000nF,10%,6.3V,X5R,TP,1005   | 1    | SA     |        |
| ...4  | AD480        | 2203-006562 | C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005    | 24   | SNA    |        |
| ...4  | AD480        | 2203-006698 | C-CER,CHIP;1000nF,10%,25V,X7R,TP,1608,0. | 2    | SA     |        |
| ...4  | AD480        | 2203-006824 | C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608    | 4    | SNA    |        |
| ...4  | AD480        | 2203-006841 | C-CER,CHIP;1000nF,10%,16V,X5R,TP,1005    | 1    | SNA    |        |
| ...4  | AD480        | 2203-006960 | C-CER,CHIP;1000nF,10%,50V,X7R,TP,2012    | 1    | SNA    |        |
| ...4  | AD480        | 2203-007240 | C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608( | 67   | SA     |        |
| ...4  | AD480        | 2203-007306 | C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1 | 35   | SNA    |        |
| ...4  | AD480        | 2203-008315 | C-CER,CHIP;22000nF,20%,25V,X5R,TP,2012,1 | 25   | SA     |        |
| ...4  |              | 2703-003713 | INDUCTOR-SMD;1.5uH,20%,7366,0.015Ohm,700 | 2    | SA     |        |
| ...4  |              | 2703-003747 | INDUCTOR-SMD;22uH,20%,6060,0.135ohm,1300 | 3    | SA     |        |
| ...4  |              | 2703-003862 | INDUCTOR-SMD;10uH,20%,6060,0.065ohm,1900 | 1    | SA     |        |
| ...4  |              | 2703-003913 | INDUCTOR-SMD;2.2uH,20%,2520,1.2T,0.116Oh | 1    | SNA    |        |
| ...4  |              | 2703-004199 | INDUCTOR-SMD;10uH,20%,6.6x7.0mm,2.2mm,0. | 1    | SNA    |        |
| ...4  |              | 2801-005324 | CRYSTAL-SMD;27MHz,30ppm,Ceramic SMD(4pin | 1    | SA     |        |
| ...4  |              | 2901-001362 | FILTER-EMI/ESD;5.5V,0A,50pF,2.05x1.25x0. | 3    | SNA    |        |
| ...4  |              | 3601-001374 | FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL | 3    | SA     |        |

## ANNEX. Exploded View &amp; Part List

| Level | Location No. | Code No.    | Description & Specification              | Q'ty | SA/SNA | Remark |
|-------|--------------|-------------|------------------------------------------|------|--------|--------|
| ...4  |              | 3601-001376 | FUSE-SURFACE MOUNT;32V,3A,FAST-ACTING,Hi | 1    | SNA    |        |
| ...4  |              | 3708-003073 | CONNECTOR-FPC/FFC/PIC;51P,0.5mm,SMD-A,AU | 2    | SA     |        |
| ...4  |              | 3708-003176 | CONNECTOR-FPC/FFC/PIC;68P,0.5mm,SMD-A,AU | 2    | SA     |        |
| ...4  | EH01         | 3711-008098 | HEADER-BOARD TO CABLE;BOX,20P,1R,1.25mm, | 1    | SNA    |        |
| ...4  |              | BN41-02481A | PCB-MAIN;2016Y FHD SDC MJC,FR-4,4L,1.2T, | 1    | SNA    |        |
| ...4  |              | BN68-04746A | LABEL-SMD;all model,POLY*,polyester,comm | 2    | SNA    |        |
| ...4  |              | BN97-11034A | ASSY MICOM;1107-002224,K6300_50,HAWK_FTS | 1    | SNA    |        |
| ...5  |              | 1107-002224 | IC-FLASH MEM. MODULE;W25X40CLSSIG,4Mbit, | 1    | SNA    |        |
| ..3   | M0131        | MD63-00103A | GASKET-TAPE;GRANDSLAM,Conductive Fabric, | 3    | SNA    |        |
| 0.2   |              | BN96-39214A | ASSY OPEN CELL;LSF550HN03-L,16:9,0.4T    | 1    | SNA    |        |
| ..3   |              | BN81-07437A | A/S-ADHESIVE ACF;LSJ400HL02-E,ADHESIVE A | 1    | SNA    |        |
| ..3   |              | BN81-07943A | A/S-ADHESIVE ACF;LSF320AN01-A,0201-00237 | 1    | SNA    |        |
| ..3   |              | BN81-13073A | A/S-IC DRIVER SOURCE;IC DRIVER SOURCE,LJ | 1    | SNA    |        |
| ..3   |              | BN81-13081A | A/S-SOURCE PCB RIGHT;SOURCE PCB RIGHT,LJ | 1    | SNA    |        |
| ..3   |              | BN81-13082A | A/S-SOURCE PCB LEFT;SOURCE PCB LEFT,LJ94 | 1    | SNA    |        |
| ..3   |              | BN82-01614A | A/S-POLARIZER CF;LSF550HF01-K,LJ01-10354 | 1    | SNA    |        |
| ..3   |              | BN82-01615A | A/S-POLARIZER TFT;LSF550HF01-K,LJ01-1035 | 1    | SNA    |        |
| 0.2   |              | BN96-39741B | ASSY CHASSIS FRONT P;55K6200,PC+ABS+ED18 | 1    | SNA    |        |
| ..3   |              | BN95-02866B | ASSY COVER CHASSIS SMT-FRONT;K6200,55,SI | 1    | SNA    |        |
| ...4  |              | 0204-006861 | COATING;SMT-L100,CLEAR,0.928             | 0    | SNA    |        |
| ...4  |              | BN01-00160A | TARGET-CHROMIUM CY;Chromium,99.95%,1800x | 0    | SNA    |        |
| ...4  |              | BN60-01441C | SPACER-CONDUCTIVE;55K6300,CONDUCTIVE FAB | 2    | SNA    |        |
| ...4  |              | BN60-01441D | SPACER-CONDUCTIVE;55K6300,CONDUCTIVE FAB | 2    | SNA    |        |
| ...4  |              | BN63-10118A | GASKET-TAPE;60 FLED,Conductive Fabric,T0 | 2    | SNA    |        |
| ...4  |              | BN63-11118B | SHEET-PROTECTION COVER;Y13 SNB F8.5K,PET | 3    | SNA    |        |
| ...4  |              | BN63-11118F | SHEET-PROTECTION COVER;K6200,PET,T0.04,W | 1    | SNA    |        |
| ...4  |              | BN63-12151A | GASKET-EMI;CY-MH270BGLV1V,Conductive Fab | 2    | SNA    |        |
| ...4  | AC155        | BN64-03437A | CHASSIS-FRONT;55K6200,PC+ABS+ED18%,V-1,M | 1    | SNA    |        |
| 0.2   |              | BN96-40424A | FFC CABLE;K6300,Straight,L47,68P,16Y FHD | 2    | SNA    |        |

# 1. Precautions

## 1-1. Safety Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

### 1-1-1. Warnings



For continued safety, do not attempt to modify the circuit board.  
Disconnect the AC power and DC power jack before servicing.

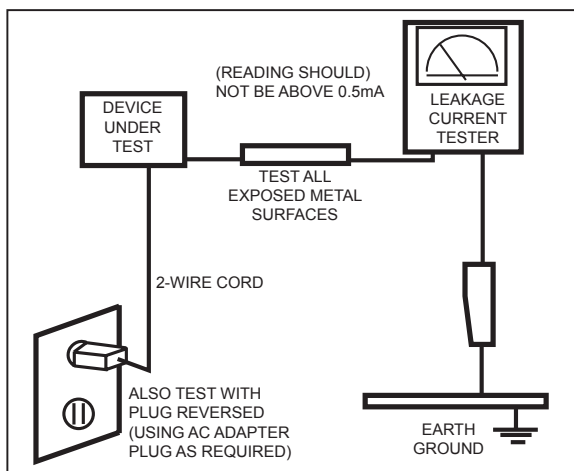
### 1-1-2. Servicing the LED TV

1. When servicing the LED TV, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

### 1-1-3. Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor/capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check:



Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts.  
The current measured should not exceed 0.5 milliamp.  
Reverse the power-plug prongs in the AC outlet and repeat the test.

### **1-1-4. Product Safety Notices**

Some electrical and mechanical parts have special safetyrelated characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by  on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

## 1-2. Servicing Precautions



An electrolytic capacitor installed with the wrong polarity might explode.



Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.



If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

### 1-2-1. General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to: (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug. The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

### 1-3. Static Electricity Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.



Be sure no power is applied to the chassis or circuit and observe all other safety precautions.

8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

## 1-4. Installation Precautions

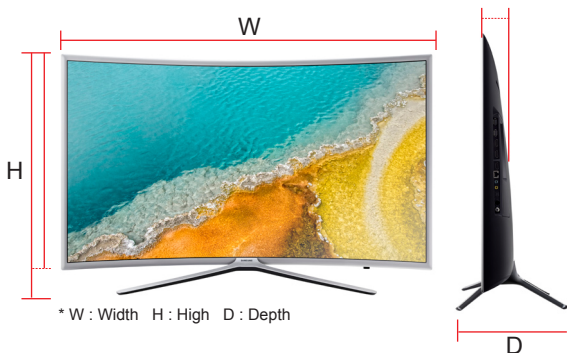
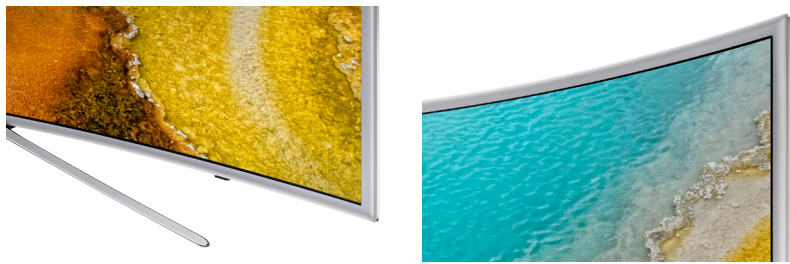
1. For safety reasons, more than a people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (0.4m) between the product and the wall for ventilation purposes. A rise in temperature within the product may cause fire.
8. If an equipment is provided with a replaceable battery, and if replacement by an incorrect type could result in an explosion (for example, with some lithium batteries), the following applies:



- Risk of explosion if battery is replaced by an incorrect type dispose of used batteries according to the instructions.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or overheat the batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not be exposed to excessive heat such as sunshine, fire or the like.

## 2. Product Specifications

### 2-1. Product information

| Model             | UN**K6250AF                                                                                                              |               |                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------|
| Front View        |  <p>* W : Width H : High D : Depth</p> |               |                                                          |
| Detail View       |                                       |               |                                                          |
| Front Color       | Silver                                                                                                                   |               |                                                          |
| Dimension (WxHxD) | 40"                                                                                                                      | Body          | 36.1 x 21.3 x 3.5 inches<br>(916.5 x 540.6 x 89.1 mm)    |
|                   |                                                                                                                          | with Stand    | 36.1 x 23.9 x 9.9 inches<br>(916.5 x 607.5 x 250.7 mm)   |
|                   | 49"                                                                                                                      | Body          | 43.4 x 25.4 x 4.1 inches<br>(1102.3 x 646.4 x 104.4 mm)  |
|                   |                                                                                                                          | with Stand    | 43.4 x 28.0 x 11.5 inches<br>(1102.3 x 712.2 x 293.0 mm) |
|                   | 55"                                                                                                                      | Body          | 48.8 x 28.5 x 3.9 inches<br>(1240.0 x 722.7 x 98.0 mm)   |
|                   |                                                                                                                          | with Stand    | 48.8 x 31.0 x 11.5 inches<br>(1240.0 x 788.6 x 293.0 mm) |
| Weight            | 40"                                                                                                                      | without Stand | 19.8 lbs (9.0 kg)                                        |
|                   |                                                                                                                          | with Stand    | 22.3 lbs (10.1 kg)                                       |
|                   | 49"                                                                                                                      | without Stand | 26.9 lbs (12.2 kg)                                       |
|                   |                                                                                                                          | with Stand    | 30.6 lbs (13.9 kg)                                       |
|                   | 55"                                                                                                                      | without Stand | 34.0 lbs (15.4 kg)                                       |
|                   |                                                                                                                          | with Stand    | 37.7 lbs (17.1 kg)                                       |

2-2. Detail Specification

| Item                |                                 | UN40K6250AFXZA                 |
|---------------------|---------------------------------|--------------------------------|
| General Information | Product                         | LED                            |
|                     | Series                          | 6                              |
|                     | Country                         | UNITED STATES                  |
|                     | Platform(TV)                    | SoC   HAWK-MF                  |
| Display             | Screen Size                     | 40"                            |
|                     | Resolution                      | 1,920 × 1,080                  |
|                     | Ultra Black                     | N/A                            |
|                     | Quantum Dot Display             | N/A                            |
|                     | Ultra Clear Panel               | N/A                            |
|                     | Screen Curvature                | 3,000R                         |
|                     | 10 bit Support                  | N/A                            |
| Video               | Picture Engine                  | HyperReal                      |
|                     | Motion Rate                     | MR 120                         |
|                     | PQI (Picture Quality Index)     | N/A                            |
|                     | HDR (High Dynamic Range)        | N/A                            |
|                     | Dynamic Contrast Ratio          | Mega Contrast                  |
|                     | Micro Dimming                   | M/D Pro                        |
|                     | Precision Black (Local Dimming) | N/A                            |
|                     | Quantum Dot Color               | N/A                            |
|                     | Active Crystal Color            | N/A                            |
|                     | Wide Color Enhancer (Plus)      | Yes                            |
|                     | PurColor                        | N/A                            |
|                     | Auto Depth Enhancer             | Yes                            |
|                     | Contrast Enhancer               | N/A                            |
|                     | Auto Motion Plus                | Yes                            |
|                     | Film Mode                       | Yes                            |
|                     | Natural Mode Support            | Yes                            |
|                     | Peak Illuminator                | N/A                            |
| Audio               | Dolby Digital Plus              | Yes                            |
|                     | DTS Codec                       | Yes                            |
|                     | Sound Output (RMS)              | 20W                            |
|                     | Speaker Type                    | 2CH(Down Firing + Bass Reflex) |
|                     | Woofer                          | N/A                            |
|                     | Wallmount Sound Mode            | Yes                            |
|                     | Multiroom Link                  | Yes                            |
|                     | TV SoundConnect                 | Yes                            |
|                     | BT Headset Support              | Yes                            |

| Item               |                                     | UN40K6250AFXZA                 |
|--------------------|-------------------------------------|--------------------------------|
| Smart TV           | Samsung SMART TV                    | Yes                            |
|                    | Apps                                | Yes                            |
|                    | Games                               | N/A                            |
|                    | Cloud Game                          | Yes                            |
|                    | Billing                             | Yes                            |
|                    | EXTRA                               | Yes                            |
|                    | TV Plus                             | N/A                            |
|                    | Automated Content Recognition (ACR) | Yes                            |
|                    | Skype™ on Samsung TV                | N/A                            |
|                    | Web Browser                         | Yes                            |
| Smart Interaction  | Voice Recognition                   | N/A                            |
| Convergence        | TV to Mobile - Mirroring            | Yes                            |
|                    | Mobile to TV - Mirroring, DLNA      | Yes                            |
|                    | Family Square with S-Cloud          | N/A                            |
|                    | Together Play                       | Yes                            |
|                    | Easy Setup                          | Yes                            |
|                    | Samsung SMART View                  | Yes                            |
|                    | App Casting                         | Yes                            |
|                    | Wireless TV On - Samsung WOL        | Yes                            |
|                    | Wired TV On - Samsung WOL           | Yes                            |
|                    | Bluetooth Low Energy                | Yes                            |
|                    | Briefing On TV                      | Yes                            |
|                    | RVU                                 | Yes                            |
|                    | WiDi                                | N/A                            |
|                    | WiFi Direct                         | Yes                            |
| IoT Service        | TV as Hub Support                   | N/A                            |
|                    | TV as Things Support                | Yes                            |
|                    | IoT Client Application              | N/A                            |
| Tuner/Broadcasting | Digital Broadcasting                | ATSC                           |
|                    | Analog Tuner                        | Yes                            |
| Connectivity       | HDMI                                | 3                              |
|                    | USB                                 | 2                              |
|                    | Component In (Y/Pb/Pr)              | 1                              |
|                    | Composite In (AV)                   | 1 (Common Use for Component Y) |
|                    | Ethernet (LAN)                      | 1                              |
|                    | Headphone                           | N/A                            |
|                    | Audio Out (Mini Jack)               | N/A                            |
|                    | Digital Audio Out (Optical)         | 1                              |

## 2. Product specifications

| Item               |                                                     | UN40K6250AFXZA                      |
|--------------------|-----------------------------------------------------|-------------------------------------|
| Connectivity       | RF In (Terrestrial / Cable input / Satellite input) | 1/1(Common Use for Terrestrial)/0   |
|                    | Ex-Link ( RS-232C )                                 | N/A                                 |
|                    | CI Slot                                             | N/A                                 |
|                    | Scart                                               | N/A                                 |
|                    | MHL                                                 | N/A                                 |
|                    | HDMI A / Return Ch. Support                         | Yes                                 |
|                    | HDMI Quick Switch                                   | N/A                                 |
|                    | Wireless LAN Adapter Support                        | N/A                                 |
|                    | Wireless LAN Built-in                               | Yes                                 |
|                    | Anynet+ (HDMI-CEC)                                  | Yes                                 |
| Design             | Design                                              | FHD Slim Curved                     |
|                    | Bezel Type                                          | VNB                                 |
|                    | Slim Type                                           | Step-Up Slim                        |
|                    | Front Color                                         | Silver                              |
|                    | Light Effect (Deco)                                 | N/A                                 |
|                    | Stand Type                                          | Quad                                |
|                    | Swivel (Left/Right)                                 | N/A                                 |
| Additional Feature | Samsung 3D                                          | N/A                                 |
|                    | Instant On                                          | Yes                                 |
|                    | Processor                                           | Quad-Core                           |
|                    | SCSA Support                                        | N/A                                 |
|                    | Accessibility                                       | Voice guide/ Enlarge/ High contrast |
|                    | Digital Clean View                                  | Yes                                 |
|                    | One Connect (Jack)                                  | N/A                                 |
|                    | Auto Channel Search                                 | Yes                                 |
|                    | Auto Power Off                                      | Yes                                 |
|                    | BD Wise Plus                                        | N/A                                 |
|                    | Caption (Subtitle)                                  | Yes                                 |
|                    | Channel List USB-Clone                              | N/A                                 |
|                    | Connect Share™ (HDD)                                | Yes                                 |
|                    | ConnectShare™ (USB 2.0)                             | Yes                                 |
|                    | Embedded POP                                        | Yes                                 |
|                    | EPG                                                 | Yes                                 |
|                    | Extended PVR                                        | N/A                                 |
|                    | Game Mode                                           | Yes                                 |
|                    | OSD Language                                        | English, Spanish, French            |
|                    | BT HID Built-in                                     | Yes                                 |
|                    | USB HID Support                                     | Yes                                 |

| Item               |                              | UN40K6250AFXZA     |
|--------------------|------------------------------|--------------------|
| Additional Feature | Smart Evolution Support      | N/A                |
|                    | Teletext (TTX)               | N/A                |
|                    | Time Shift                   | N/A                |
|                    | V-Chip                       | Yes                |
|                    | MBR Support                  | Yes                |
|                    | Ultra Clean View             | Yes                |
| Eco Feature        | Energy Star                  | TBD                |
|                    | Eco Sensor                   | Yes                |
|                    | Energy Efficiency Class      | N/A                |
| Power              | Power Supply                 | AC110-120V 50/60Hz |
|                    | Power Consumption (Max)      | 80 W               |
|                    | Power Consumption (Stand-by) | 0.3 W              |
|                    | Power Consumption (Typical)  | 35 W               |

## 2. Product specifications

| Item                |                                 | UN49K6250AFXZA                 |
|---------------------|---------------------------------|--------------------------------|
| General Information | Product                         | LED                            |
|                     | Series                          | 6                              |
|                     | Country                         | UNITED STATES                  |
|                     | Platform(TV)                    | SoC   HAWK-MF                  |
| Display             | Screen Size                     | 49"                            |
|                     | Resolution                      | 1,920 × 1,080                  |
|                     | Ultra Black                     | N/A                            |
|                     | Quantum Dot Display             | N/A                            |
|                     | Ultra Clear Panel               | N/A                            |
|                     | Screen Curvature                | 3,000R                         |
|                     | 10 bit Support                  | N/A                            |
| Video               | Picture Engine                  | HyperReal                      |
|                     | Motion Rate                     | MR 120                         |
|                     | PQI (Picture Quality Index)     | N/A                            |
|                     | HDR (High Dynamic Range)        | N/A                            |
|                     | Dynamic Contrast Ratio          | Mega Contrast                  |
|                     | Micro Dimming                   | M/D Pro                        |
|                     | Precision Black (Local Dimming) | N/A                            |
|                     | Quantum Dot Color               | N/A                            |
|                     | Active Crystal Color            | N/A                            |
|                     | Wide Color Enhancer (Plus)      | Yes                            |
|                     | PurColor                        | N/A                            |
|                     | Auto Depth Enhancer             | Yes                            |
|                     | Contrast Enhancer               | N/A                            |
|                     | Auto Motion Plus                | Yes                            |
|                     | Film Mode                       | Yes                            |
|                     | Natural Mode Support            | Yes                            |
|                     | Peak Illuminator                | N/A                            |
| Audio               | Dolby Digital Plus              | Yes                            |
|                     | DTS Codec                       | Yes                            |
|                     | Sound Output (RMS)              | 20W                            |
|                     | Speaker Type                    | 2CH(Down Firing + Bass Reflex) |
|                     | Woofer                          | N/A                            |
|                     | Wallmount Sound Mode            | Yes                            |
|                     | Multiroom Link                  | Yes                            |
|                     | TV SoundConnect                 | Yes                            |
|                     | BT Headset Support              | Yes                            |

| Item               |                                     | UN49K6250AFXZA                 |
|--------------------|-------------------------------------|--------------------------------|
| Smart TV           | Samsung SMART TV                    | Yes                            |
|                    | Apps                                | Yes                            |
|                    | Games                               | N/A                            |
|                    | Cloud Game                          | Yes                            |
|                    | Billing                             | Yes                            |
|                    | EXTRA                               | Yes                            |
|                    | TV Plus                             | N/A                            |
|                    | Automated Content Recognition (ACR) | Yes                            |
|                    | Skype™ on Samsung TV                | N/A                            |
|                    | Web Browser                         | Yes                            |
| Smart Interaction  | Voice Recognition                   | N/A                            |
| Convergence        | TV to Mobile - Mirroring            | Yes                            |
|                    | Mobile to TV - Mirroring, DLNA      | Yes                            |
|                    | Family Square with S-Cloud          | N/A                            |
|                    | Together Play                       | Yes                            |
|                    | Easy Setup                          | Yes                            |
|                    | Samsung SMART View                  | Yes                            |
|                    | App Casting                         | Yes                            |
|                    | Wireless TV On - Samsung WOL        | Yes                            |
|                    | Wired TV On - Samsung WOL           | Yes                            |
|                    | Bluetooth Low Energy                | Yes                            |
|                    | Briefing On TV                      | Yes                            |
|                    | RVU                                 | Yes                            |
|                    | WiDi                                | N/A                            |
|                    | WiFi Direct                         | Yes                            |
| IoT Service        | TV as Hub Support                   | N/A                            |
|                    | TV as Things Support                | Yes                            |
|                    | IoT Client Application              | N/A                            |
| Tuner/Broadcasting | Digital Broadcasting                | ATSC                           |
|                    | Analog Tuner                        | Yes                            |
| Connectivity       | HDMI                                | 3                              |
|                    | USB                                 | 2                              |
|                    | Component In (Y/Pb/Pr)              | 1                              |
|                    | Composite In (AV)                   | 1 (Common Use for Component Y) |
|                    | Ethernet (LAN)                      | 1                              |
|                    | Headphone                           | N/A                            |
|                    | Audio Out (Mini Jack)               | N/A                            |
|                    | Digital Audio Out (Optical)         | 1                              |

## 2. Product specifications

| Item               |                                                     | UN49K6250AFXZA                      |
|--------------------|-----------------------------------------------------|-------------------------------------|
| Connectivity       | RF In (Terrestrial / Cable input / Satellite input) | 1/1(Common Use for Terrestrial)/0   |
|                    | Ex-Link ( RS-232C )                                 | N/A                                 |
|                    | CI Slot                                             | N/A                                 |
|                    | Scart                                               | N/A                                 |
|                    | MHL                                                 | N/A                                 |
|                    | HDMI A / Return Ch. Support                         | Yes                                 |
|                    | HDMI Quick Switch                                   | N/A                                 |
|                    | Wireless LAN Adapter Support                        | N/A                                 |
|                    | Wireless LAN Built-in                               | Yes                                 |
|                    | Anynet+ (HDMI-CEC)                                  | Yes                                 |
| Design             | Design                                              | FHD Slim Curved                     |
|                    | Bezel Type                                          | VNB                                 |
|                    | Slim Type                                           | Step-Up Slim                        |
|                    | Front Color                                         | Silver                              |
|                    | Light Effect (Deco)                                 | N/A                                 |
|                    | Stand Type                                          | Quad                                |
|                    | Swivel (Left/Right)                                 | N/A                                 |
| Additional Feature | Samsung 3D                                          | N/A                                 |
|                    | Instant On                                          | Yes                                 |
|                    | Processor                                           | Quad-Core                           |
|                    | SCSA Support                                        | N/A                                 |
|                    | Accessibility                                       | Voice guide/ Enlarge/ High contrast |
|                    | Digital Clean View                                  | Yes                                 |
|                    | One Connect (Jack)                                  | N/A                                 |
|                    | Auto Channel Search                                 | Yes                                 |
|                    | Auto Power Off                                      | Yes                                 |
|                    | BD Wise Plus                                        | N/A                                 |
|                    | Caption (Subtitle)                                  | Yes                                 |
|                    | Channel List USB-Clone                              | N/A                                 |
|                    | Connect Share™ (HDD)                                | Yes                                 |
|                    | ConnectShare™ (USB 2.0)                             | Yes                                 |
|                    | Embedded POP                                        | Yes                                 |
|                    | EPG                                                 | Yes                                 |
|                    | Extended PVR                                        | N/A                                 |
|                    | Game Mode                                           | Yes                                 |
|                    | OSD Language                                        | English, Spanish, French            |
|                    | BT HID Built-in                                     | Yes                                 |
|                    | USB HID Support                                     | Yes                                 |

| Item               |                              | UN49K6250AFXZA     |
|--------------------|------------------------------|--------------------|
| Additional Feature | Smart Evolution Support      | N/A                |
|                    | Teletext (TTX)               | N/A                |
|                    | Time Shift                   | N/A                |
|                    | V-Chip                       | Yes                |
|                    | MBR Support                  | Yes                |
|                    | Ultra Clean View             | Yes                |
| Eco Feature        | Energy Star                  | TBD                |
|                    | Eco Sensor                   | Yes                |
|                    | Energy Efficiency Class      | N/A                |
| Power              | Power Supply                 | AC110~120V 50/60Hz |
|                    | Power Consumption (Max)      | 90 W               |
|                    | Power Consumption (Stand-by) | 0.3 W              |
|                    | Power Consumption (Typical)  | 40 W               |

## 2. Product specifications

| Item                |                                 | UN55K6250AFXZA                 |
|---------------------|---------------------------------|--------------------------------|
| General Information | Product                         | LED                            |
|                     | Series                          | 6                              |
|                     | Country                         | UNITED STATES                  |
|                     | Platform(TV)                    | SoC   HAWK-MF                  |
| Display             | Screen Size                     | 55"                            |
|                     | Resolution                      | 1,920 × 1,080                  |
|                     | Ultra Black                     | N/A                            |
|                     | Quantum Dot Display             | N/A                            |
|                     | Ultra Clear Panel               | N/A                            |
|                     | Screen Curvature                | 4,200R                         |
|                     | 10 bit Support                  | N/A                            |
| Video               | Picture Engine                  | HyperReal                      |
|                     | Motion Rate                     | 120                            |
|                     | PQI (Picture Quality Index)     | 800                            |
|                     | HDR (High Dynamic Range)        | N/A                            |
|                     | Dynamic Contrast Ratio          | Mega Contrast                  |
|                     | Micro Dimming                   | M/D Pro                        |
|                     | Precision Black (Local Dimming) | N/A                            |
|                     | Quantum Dot Color               | N/A                            |
|                     | Active Crystal Color            | N/A                            |
|                     | Wide Color Enhancer (Plus)      | Yes                            |
|                     | PurColor                        | N/A                            |
|                     | Auto Depth Enhancer             | Yes                            |
|                     | Contrast Enhancer               | N/A                            |
|                     | Auto Motion Plus                | Yes                            |
|                     | Film Mode                       | Yes                            |
|                     | Natural Mode Support            | Yes                            |
|                     | Peak Illuminator                | N/A                            |
| Audio               | Dolby Digital Plus              | Yes                            |
|                     | DTS Codec                       | Yes                            |
|                     | Sound Output (RMS)              | 20W                            |
|                     | Speaker Type                    | 2CH(Down Firing + Bass Reflex) |
|                     | Woofer                          | N/A                            |
|                     | Wallmount Sound Mode            | Yes                            |
|                     | Multiroom Link                  | Yes                            |
|                     | TV SoundConnect                 | Yes                            |
|                     | BT Headset Support              | Yes                            |

| Item               |                                     | UN55K6250AFXZA                 |
|--------------------|-------------------------------------|--------------------------------|
| Smart TV           | Samsung SMART TV                    | Yes                            |
|                    | Apps                                | Yes                            |
|                    | Games                               | N/A                            |
|                    | Cloud Game                          | Yes                            |
|                    | Billing                             | Yes                            |
|                    | EXTRA                               | Yes                            |
|                    | TV Plus                             | N/A                            |
|                    | Automated Content Recognition (ACR) | Yes                            |
|                    | Skype™ on Samsung TV                | N/A                            |
|                    | Web Browser                         | Yes                            |
| Smart Interaction  | Voice Recognition                   | N/A                            |
| Convergence        | TV to Mobile - Mirroring            | Yes                            |
|                    | Mobile to TV - Mirroring, DLNA      | Yes                            |
|                    | Family Square with S-Cloud          | N/A                            |
|                    | Together Play                       | Yes                            |
|                    | Easy Setup                          | Yes                            |
|                    | Samsung SMART View                  | Yes                            |
|                    | App Casting                         | Yes                            |
|                    | Wireless TV On - Samsung WOL        | Yes                            |
|                    | Wired TV On - Samsung WOL           | Yes                            |
|                    | Bluetooth Low Energy                | Yes                            |
|                    | Briefing On TV                      | Yes                            |
|                    | RVU                                 | Yes                            |
|                    | WiDi                                | N/A                            |
|                    | WiFi Direct                         | Yes                            |
| IoT Service        | TV as Hub Support                   | N/A                            |
|                    | TV as Things Support                | Yes                            |
|                    | IoT Client Application              | N/A                            |
| Tuner/Broadcasting | Digital Broadcasting                | ATSC                           |
|                    | Analog Tuner                        | Yes                            |
| Connectivity       | HDMI                                | 3                              |
|                    | USB                                 | 2                              |
|                    | Component In (Y/Pb/Pr)              | 1                              |
|                    | Composite In (AV)                   | 1 (Common Use for Component Y) |
|                    | Ethernet (LAN)                      | 1                              |
|                    | Headphone                           | N/A                            |
|                    | Audio Out (Mini Jack)               | N/A                            |
|                    | Digital Audio Out (Optical)         | 1                              |

## 2. Product specifications

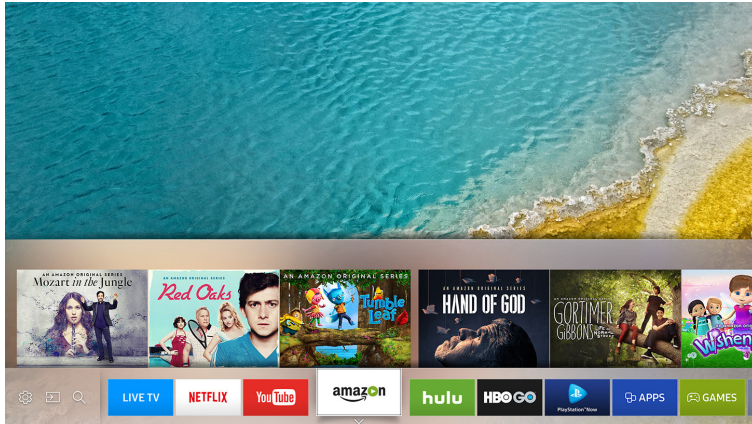
| Item               |                                                     | UN55K6250AFXZA                      |
|--------------------|-----------------------------------------------------|-------------------------------------|
| Connectivity       | RF In (Terrestrial / Cable input / Satellite input) | 1/1(Common Use for Terrestrial)/0   |
|                    | Ex-Link ( RS-232C )                                 | N/A                                 |
|                    | CI Slot                                             | N/A                                 |
|                    | Scart                                               | N/A                                 |
|                    | MHL                                                 | N/A                                 |
|                    | HDMI A / Return Ch. Support                         | Yes                                 |
|                    | HDMI Quick Switch                                   | N/A                                 |
|                    | Wireless LAN Adapter Support                        | N/A                                 |
|                    | Wireless LAN Built-in                               | Yes                                 |
|                    | Anynet+ (HDMI-CEC)                                  | Yes                                 |
| Design             | Design                                              | FHD Slim                            |
|                    | Bezel Type                                          | VNB                                 |
|                    | Slim Type                                           | Step-Up Slim                        |
|                    | Front Color                                         | Silver                              |
|                    | Light Effect (Deco)                                 | N/A                                 |
|                    | Stand Type                                          | Quad                                |
|                    | Swivel (Left/Right)                                 | N/A                                 |
| Additional Feature | Samsung 3D                                          | N/A                                 |
|                    | Instant On                                          | Yes                                 |
|                    | Processor                                           | Quad-Core                           |
|                    | SCSA Support                                        | N/A                                 |
|                    | Accessibility                                       | Voice guide/ Enlarge/ High contrast |
|                    | Digital Clean View                                  | Yes                                 |
|                    | One Connect (Jack)                                  | N/A                                 |
|                    | Auto Channel Search                                 | Yes                                 |
|                    | Auto Power Off                                      | Yes                                 |
|                    | BD Wise Plus                                        | N/A                                 |
|                    | Caption (Subtitle)                                  | Yes                                 |
|                    | Channel List USB-Clone                              | N/A                                 |
|                    | Connect Share™ (HDD)                                | Yes                                 |
|                    | ConnectShare™ (USB 2.0)                             | Yes                                 |
|                    | Embedded POP                                        | Yes                                 |
|                    | EPG                                                 | Yes                                 |
|                    | Extended PVR                                        | N/A                                 |
|                    | Game Mode                                           | Yes                                 |
|                    | OSD Language                                        | English, Spanish, French            |
|                    | BT HID Built-in                                     | Yes                                 |
|                    | USB HID Support                                     | Yes                                 |

| Item               |                              | UN55K6250AFXZA     |
|--------------------|------------------------------|--------------------|
| Additional Feature | Smart Evolution Support      | N/A                |
|                    | Teletext (TTX)               | N/A                |
|                    | Time Shift                   | N/A                |
|                    | V-Chip                       | Yes                |
|                    | MBR Support                  | Yes                |
|                    | Ultra Clean View             | Yes                |
| Eco Feature        | Energy Star                  | Yes                |
|                    | Eco Sensor                   | Yes                |
|                    | Energy Efficiency Class      | N/A                |
| Power              | Power Supply                 | AC110~120V 50/60Hz |
|                    | Power Consumption (Max)      | 100 W              |
|                    | Power Consumption (Stand-by) | 0.3 W              |
|                    | Power Consumption (Typical)  | 45 W               |

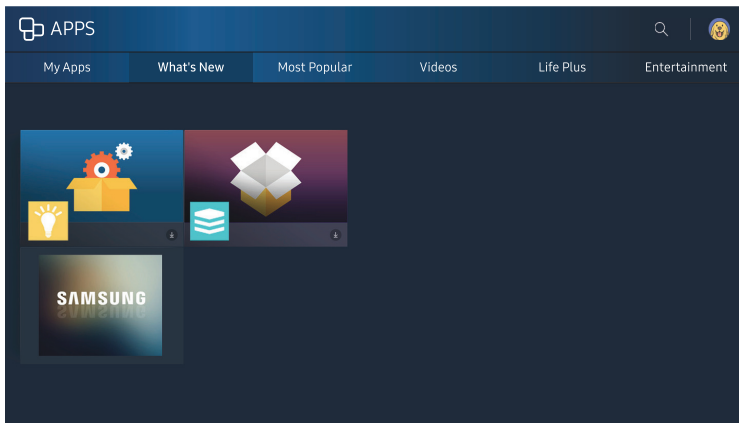
## 2-3. NEW Key Features

### 2-3-1. 16" New UI

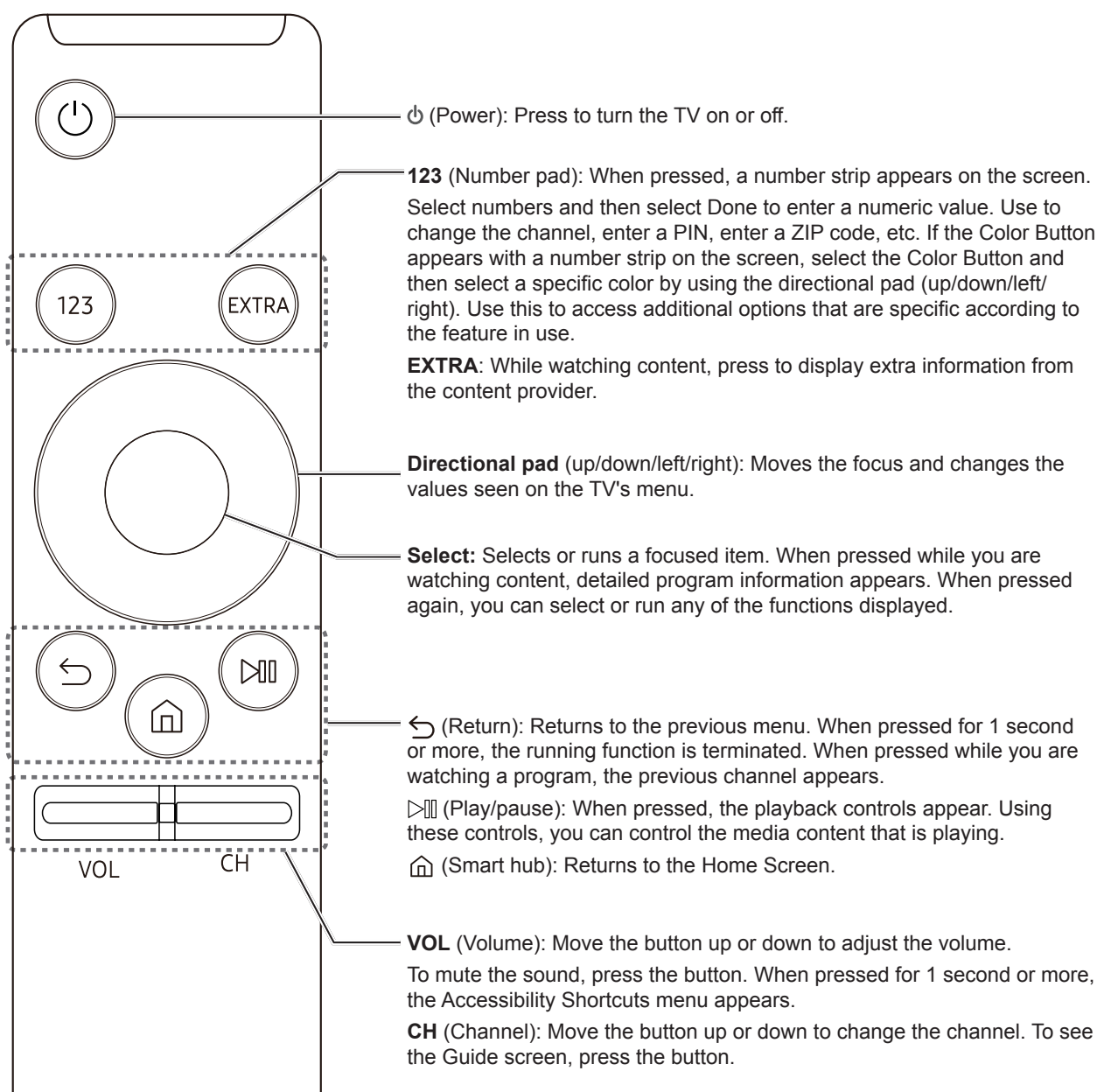
#### ■ Smart Hub



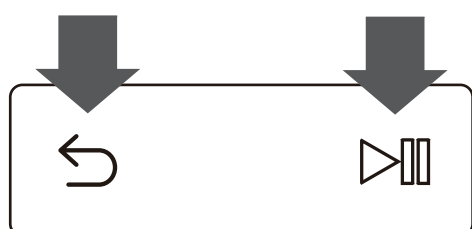
#### ■ APPS Service



## 2-4. Samsung Smart Remote



### Pairing the TV to the Samsung Smart Control



When you turn on the TV for the first time, the Samsung Smart Remote pairs to the TV automatically. If the Samsung Smart Remote does not pair to the TV automatically, point it at the remote control sensor of the TV, and then press and hold the Returns and Play/pause buttons in the figure on the left simultaneously for 3 seconds or more.

## 2-5. Supported Formats

### 2-5-1. Supported image formats and resolutions

| File Extension  | Type | Resolution |
|-----------------|------|------------|
| *.jpg<br>*.jpeg | JPEG | 15360x8640 |
| *.png           | PNG  | 4096x4096  |
| *.bmp           | BMP  | 4096x4096  |
| *.mpo           | MPO  | 15360x8640 |

### 2-5-2. Supported music formats and codecs

| File Extension          | Type  | Codec               | Note                                                                                                          |
|-------------------------|-------|---------------------|---------------------------------------------------------------------------------------------------------------|
| *.mp3                   | MPEG  | MPEG1 Audio Layer 3 | -                                                                                                             |
| *.m4a<br>*.mpa<br>*.aac | MPEG4 | AAC                 |                                                                                                               |
| *.flac                  | FLAC  | FLAC                | Supports up to two channels.                                                                                  |
| *.ogg                   | OGG   | Vorbis              | Supports up to two channels.                                                                                  |
| *.wma                   | WMA   | WMA                 | WMA 10 Pro supports up to 5.1 channels.<br>WMA lossless audio is not supported.<br>Supports up to M2 profile. |
| *.wav                   | wav   | wav                 |                                                                                                               |
| *.mid<br>*.midi         | midi  | midi                | Supports type 0 and type 1.<br>Seek is not supported.<br>Supports USB device only.                            |
| *.ape                   | ape   | ape                 |                                                                                                               |
| *.aif<br>*.aiff         | AIFF  | AIFF                |                                                                                                               |
| *.m4a                   | ALAC  | ALAC                |                                                                                                               |

## 2-5-3. Supported video codecs

| File Formats                                                                                                                                                                      | Container                                                                       | Video Codecs                            | Resolution | Frame rate (fps) | Bit rate (Mbps) | Audio Codec                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------|------------|------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| *.avi<br>*.mkv<br>*.asf<br>*.wmv<br>*.mp4<br>*.mov<br>*.3gp<br>*.vro<br>*.mpg<br>*.mpeg<br>*.ts<br>*.tp<br>*.trp<br>*.mov<br>*.flv<br>*.vob<br>*.svi<br>*.m2ts<br>*.mts<br>*.divx | AVI<br>MKV<br>ASF<br>MP4<br>3GP<br>MOV<br>FLV<br>VRO<br>VOB<br>PS<br>TS<br>SVAF | H.264 BP/MP/HP                          | 1920x1080  | 60               | 20              | Dolby Digital<br>LPCM<br>ADPCM(IMA, MS)<br>AAC<br>HE-AAC<br>WMA<br><br>Dolby Digital Plus<br>MPEG(MP3)<br><br>DTS(Core, LBR)<br>G.711(A-Law, μ-Law) |
|                                                                                                                                                                                   |                                                                                 | HEVC(H.265 - Main Profile only)         |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | Motion JPEG                             |            | 30               |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | MVC                                     |            | 60               |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | DivX 3.11 / 4 / 5 / 6                   |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | MPEG4 SP/ASP                            |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | Window Media Video v9 (VC1)             |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | MPEG2                                   |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | MPEG1                                   |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | Microsoft MPEG-4 v1, v2, v3             |            | 30               |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | Window Media Video v7 (WMV1), v8 (WMV2) |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | H.263 Sorrenson                         |            |                  |                 |                                                                                                                                                     |
|                                                                                                                                                                                   |                                                                                 | VP6                                     |            |                  |                 |                                                                                                                                                     |
| *.webm                                                                                                                                                                            | WebM                                                                            | VP8                                     |            | 60               |                 | Vorbis                                                                                                                                              |

## Other Restrictions



### NOTE

- Codecs may not function properly if there is a problem with the content data.
- Video content does not play or does not correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility.ratings
- If the Index Table is wrong, the Seek(Jump) function does not work.
- When playing video over a network connection, the video may not play smoothly because of datatransmission speeds.
- Some USB/digital camera devices may not be compatible with the player.
- HEVC codec is only available in MKV / MP4 / TS containers.

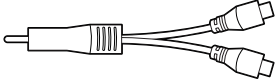
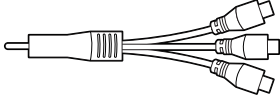
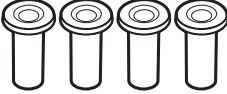
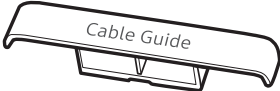
## 2-6. Accessories



### NOTE

- The items' colors and shapes may vary depending on the model.
- Cables not included in the package contents can be purchased separately.
- The part code for some accessories may differ depending on your region.

| Product               | Code. No    | Product            | Code. No    |
|-----------------------|-------------|--------------------|-------------|
| • Smart Touch Control | BN59-01260A | • User Manual      | BN68-07908A |
| • Batteries (AA x 2)  | 4301-000101 | • Regulatory Guide | BN68-04972E |
| • Power Cord          | 3903-001117 |                    |             |

| Image                                                                               | Product                    | Code. No    |
|-------------------------------------------------------------------------------------|----------------------------|-------------|
|    | • Component In             | BN39-02190A |
|   | • AV IN Adapter            | BN39-02189A |
|  | • Wall Mount Adapter x 4EA | BN61-13518A |
|  | • Cable Guide              | BN61-13777A |

## 4. Troubleshooting

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### 4-1. How to Check Fault Symptom

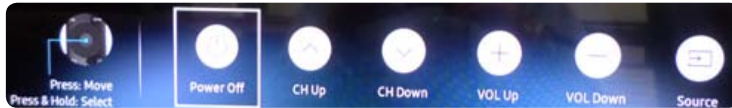
#### 4-1-1. Power

##### ■ TV POWER STANDBY

1. TV in Standby
  - √ **Standby LED Indicator**
2. If Not Lit:
  - √ AC 120Vac Line
3. If missing:
  - √ 120Vac Source and Power Cord
4. If OK:
  - √ Resistance on SMPS **Fuse** after first removing AC power cord.
5. If fuses are open replace SMPS.
6. If fuses are OK:
  - √ **Standby: A13V** (Always On) to Main Board. Should all be approx. 9 VDC
7. If any missing remove the SMPS connector to Main Board .
  - √ Standby A13V again for 9VDC.
    - If OK replace **Main Board**.
    - If still missing replace **SMPS**.

## ■ FUNCTION/IR Control

1. TV in Standby
  - ✓ **LED Status**
2. If **LED** is **OFF**
  - ✓ LED 1.7Vdc (pin 8) and VCC for 3.3Vdc
    - If missing suspect Function Assy/Cable/Main board.
3. If **LED** is **ON**
  - ✓ Switch Operation activates on screen display.

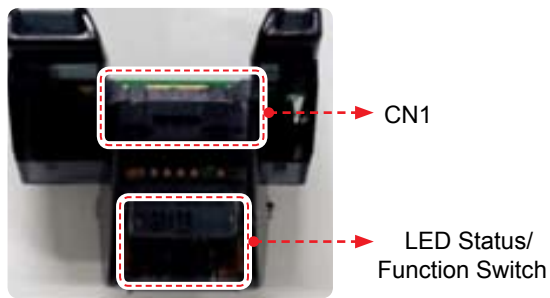


<On Screen Selections with Function Control>

If missing:

1. **Key \_Input1 Pin 6** change to 0V with a command.
2. If wrong voltage or no change: Switch for stuck or miss-operation.

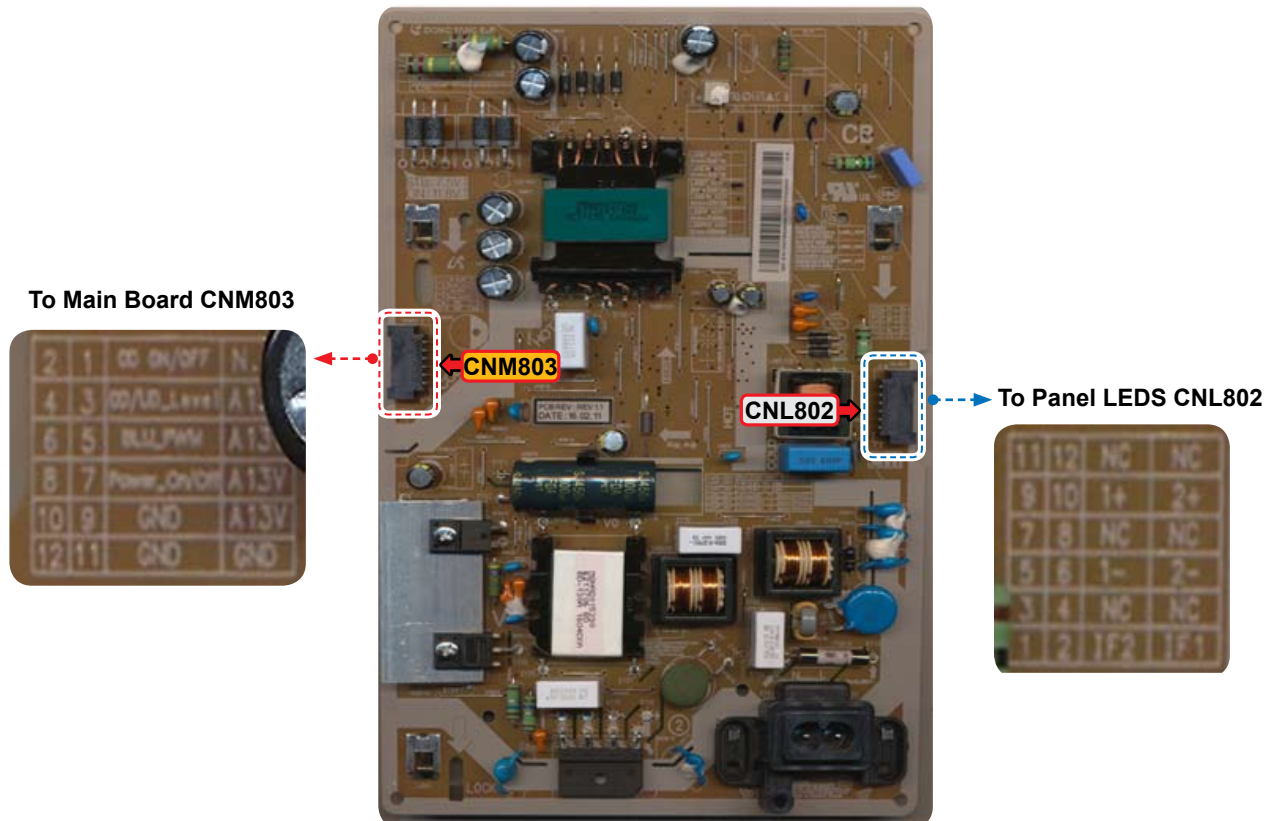
### Function/IR



| CN1 (FUNCTION/IR) |                                      |   |                                            |
|-------------------|--------------------------------------|---|--------------------------------------------|
| 1                 | IR 3.3Vdc to 2.5Vdc (Effective DC)   | 2 | GND                                        |
| 3                 | A3.3V_PW                             | 4 | AMP_SCL_I2C 3.3Vdc (effective DC)          |
| 5                 | AMP_SDA_I2C 3.3 Vdc (effective DC)   | 6 | KEY_INPUT1 1.8dc to 0V with PWR On command |
| 7                 | KEY_INPUT2 1.8Vdc to command Voltage | 8 | LED_STB_OUT 1.7Vdc STBY                    |

## ■ SMPS POWER

1. **A13V** Standby to Main Board: Approx 9Vdc
2. **Power\_On/Off: 3.3Vdc** Power ON/OFF
3. **A13V**: to steady 12.7 Vdc
4. **OD/UD : 3.3Vdc** Over & Under Drive
5. **BLU\_PWM: .9V~3.3Vdc** also labeled "BLU On/Off" Backlight On/Off & Backlight (PWM signal) Level Control.



## ■ BACKLIGHTS



### 1. Activate Backlights Test:

- Disconnect Lead Cable from Main Board to Power Supply. (CN202)
- ✓ TV Screen for active backlight LEDs.

### 2. If NO BACKLIGHTS

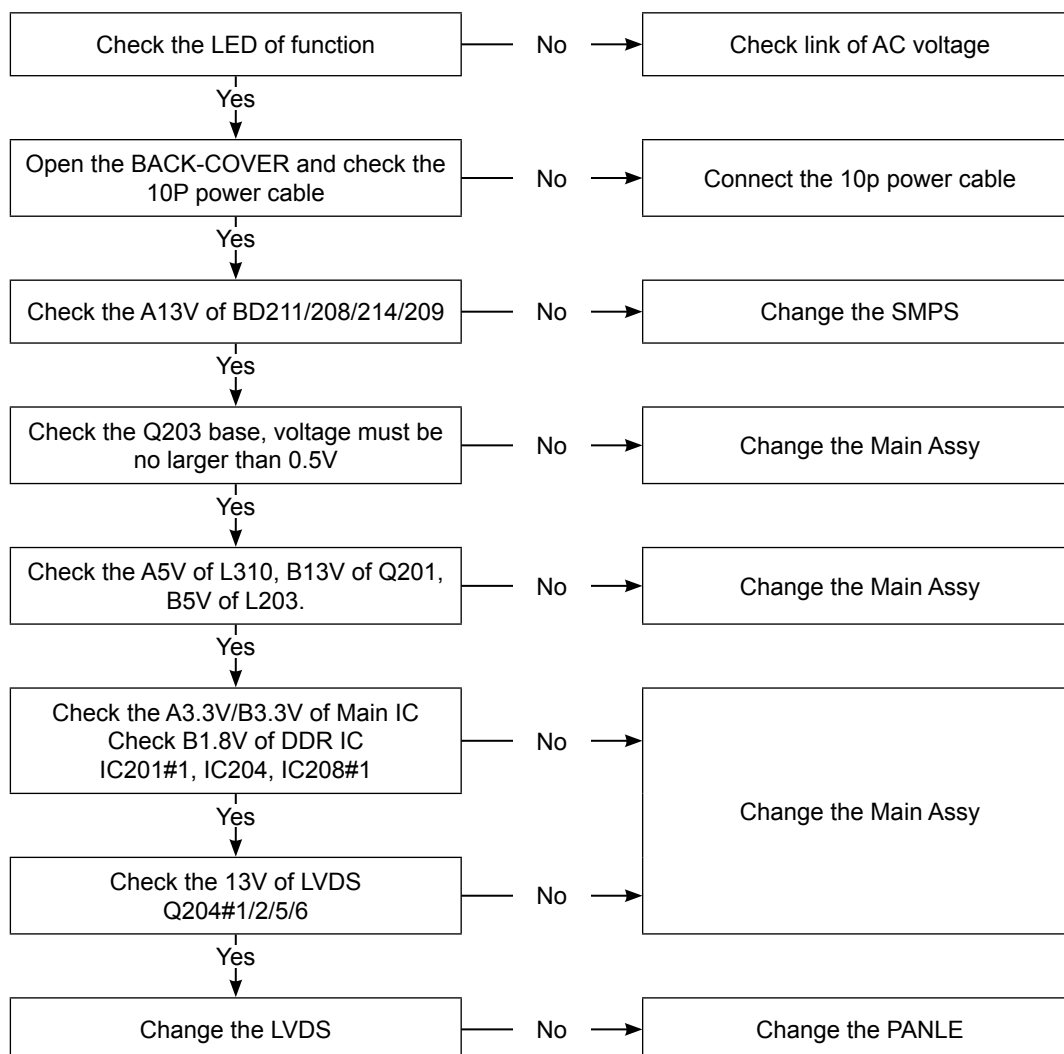
- ✓ Plus (+) & Minus (-) pin voltages on the Panel Connector.
- If no pin voltages replace **SMPS**.
- If voltages exist but no backlight:
- ✓ The highest pin voltage (**BL Drive Supply**)
- **Remove Panel connector** and measure again to compare.
- **If the voltage was high** and stays the same high reading a string of Panel LEDs are open. Replace the **Panel**.
- If the **voltage was low** and remains low the **SMPS** is defective.
- If the voltage was low and goes high a string of panel LEDs are shorted replace the **Panel**.

### For BACKLIGHT DIMMING PROBLEMS:

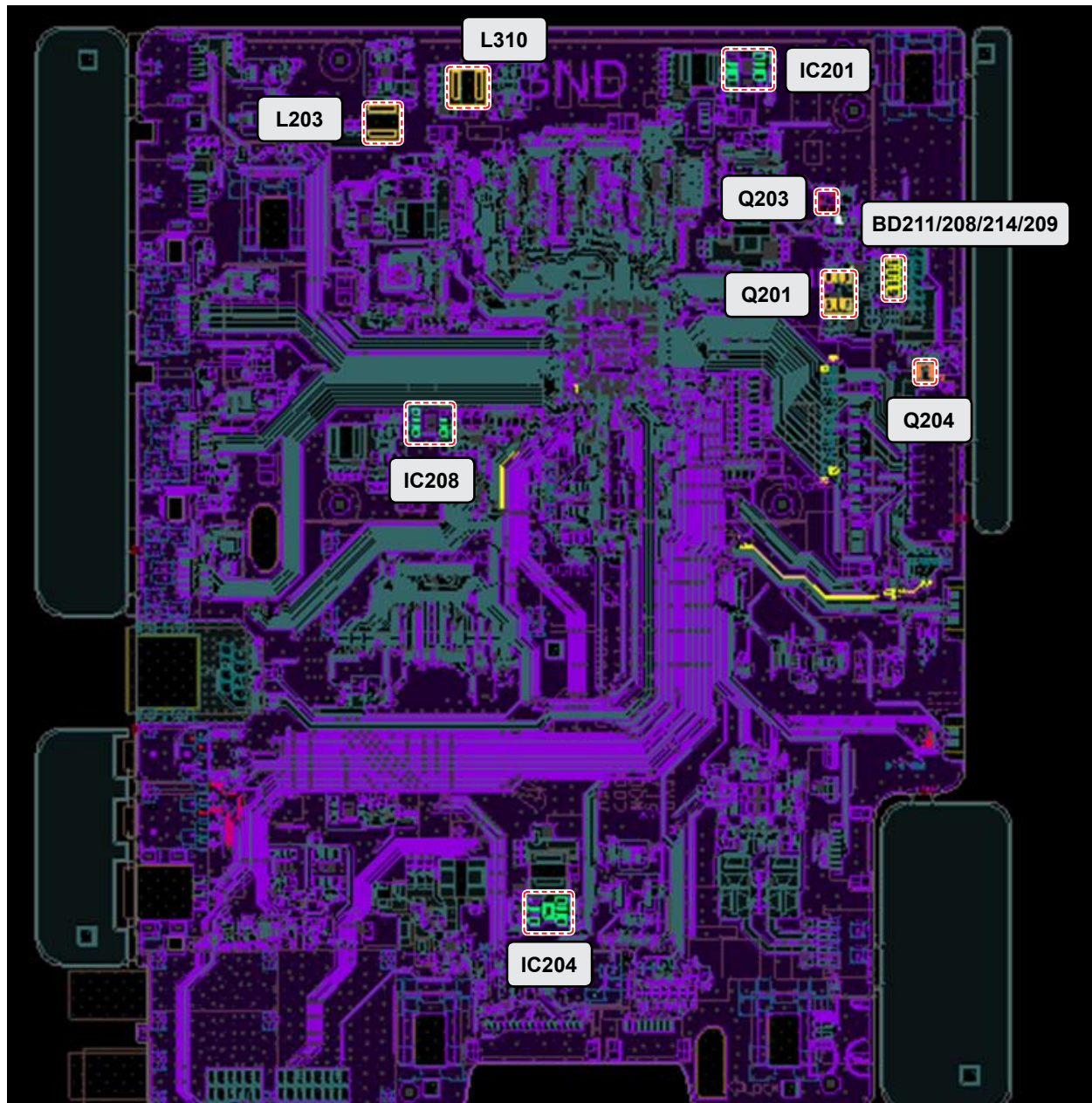
- Go to **Menu** → **Picture** → **Backlight** and vary level (0 – 20)
- If no backlight changes observed:
  - ✓ Panel Connector pin voltages and BLU\_PWM voltages (CNM801) while changing backlight level.
- If Panel voltages don't change, and BLU\_PWM changes, replace **SMPS**.
- If BLU\_PWM doesn't change replace **Main/T-Con Board**.

## 4-1-2. MAIN

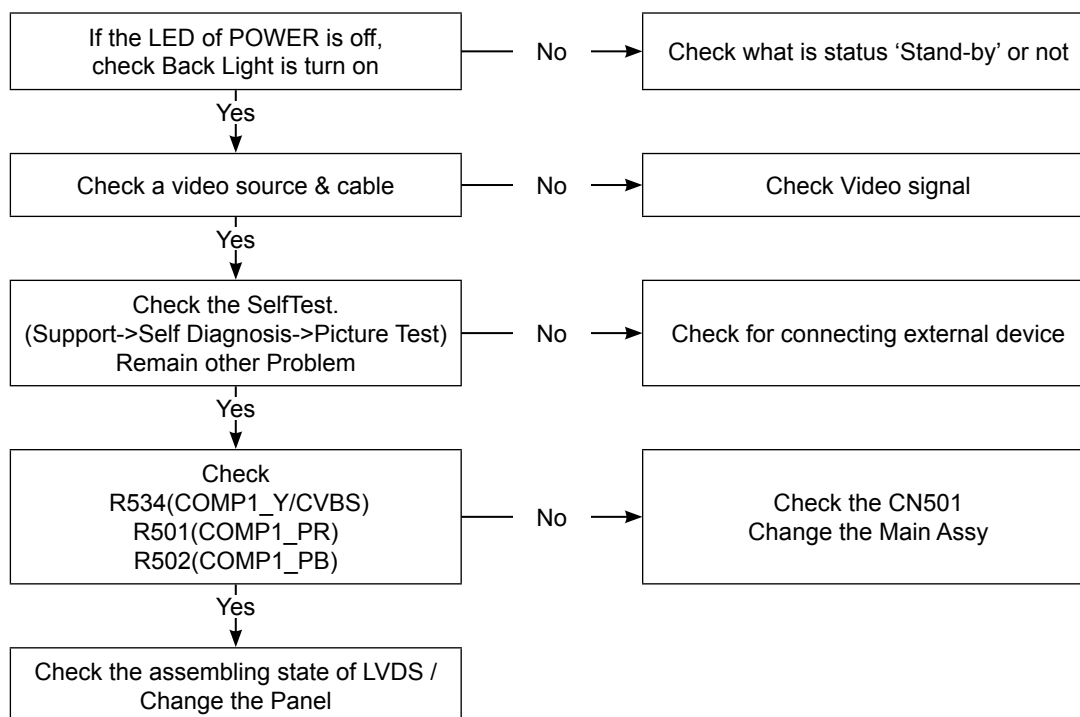
### ■ No power & no picture



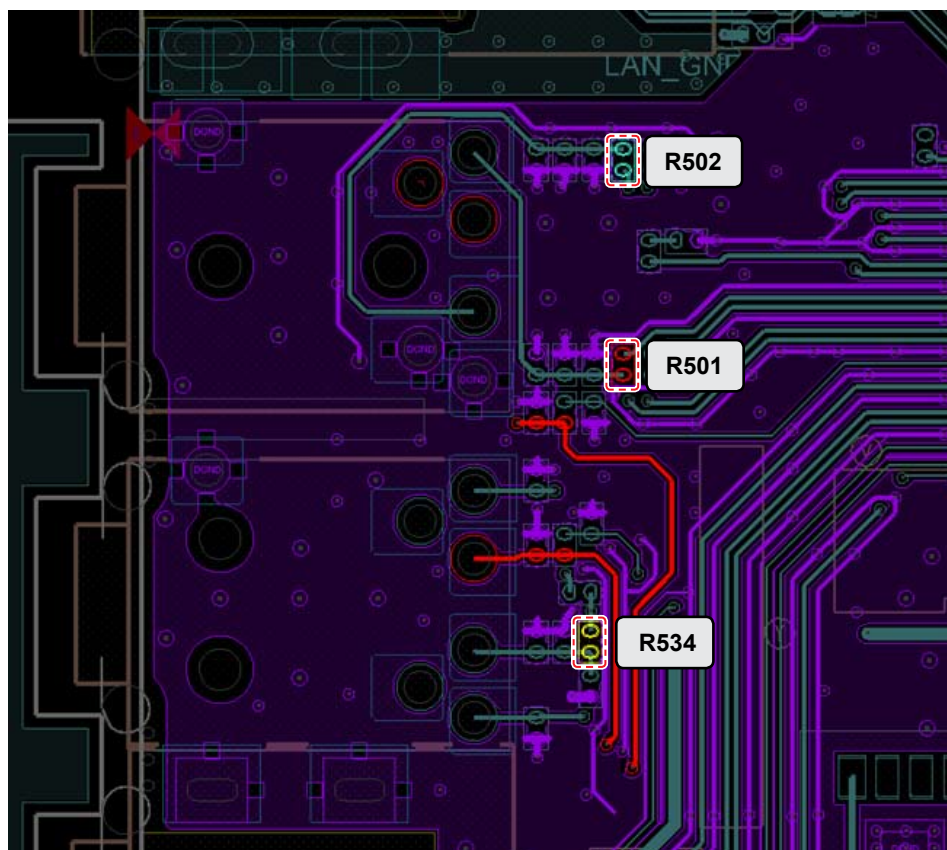
## ■ Location of Parts



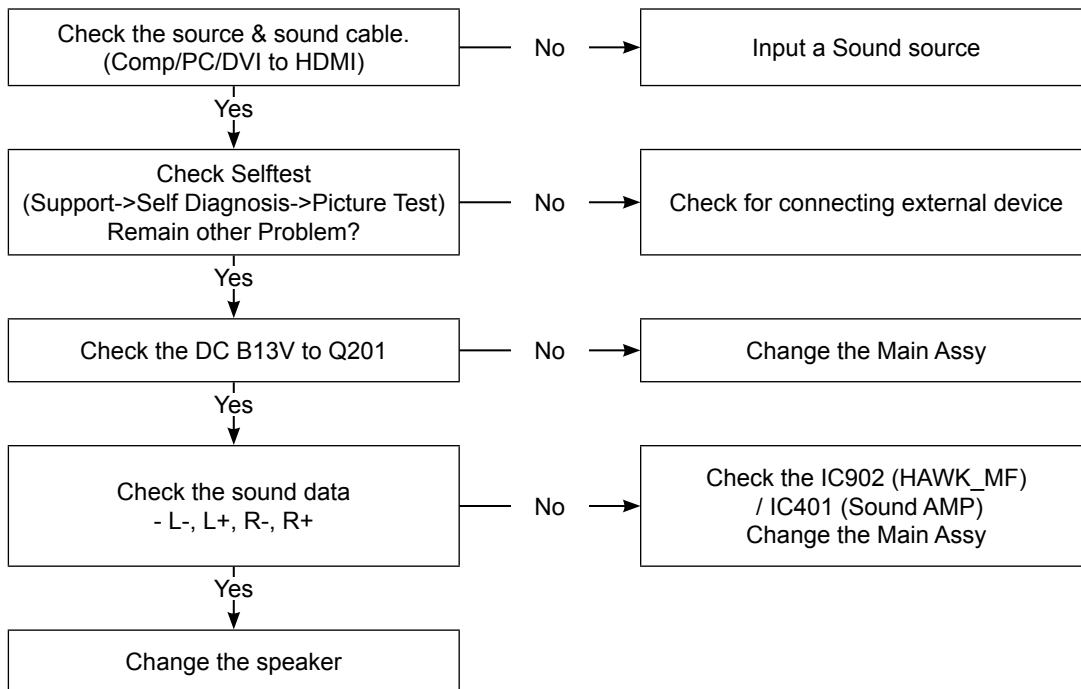
## ■ No picture (COMPONENT)



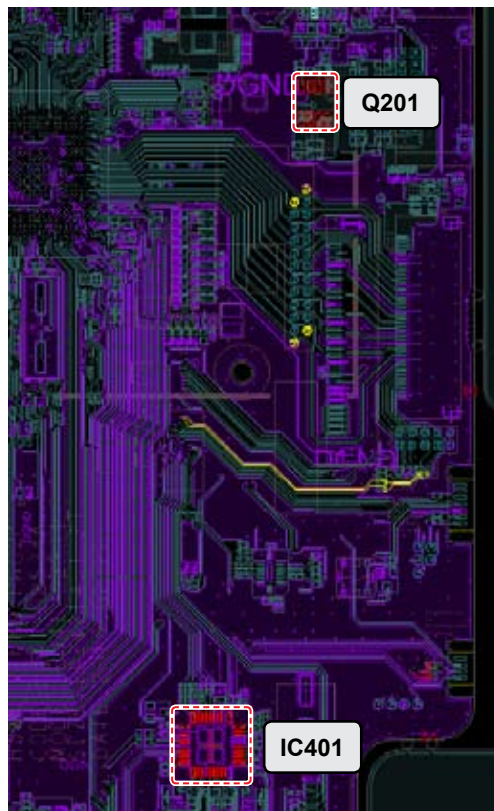
## ■ Location of Parts



## ■ No sound



## ■ Location of Parts



### 4-1-3. Video

#### ■ MAIN / T-CON Board

##### 1. Main Board Section



Video Operation : **Generated on Main Section.**

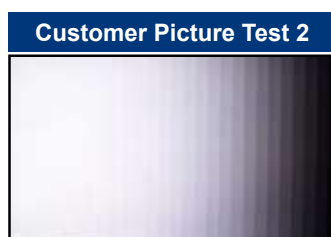
##### 1. If OK:

- ✓ Source & Input Cables.
- ✓ Other inputs.
- ✓ One Connect Cable/Box.

##### 2. If Noisy:

- ✓ T-CON Section Test Patterns.

##### 2. PRE FRC of T-CON Section



Video Operation : **Generated at Pre FRC, of T-CON Section.**

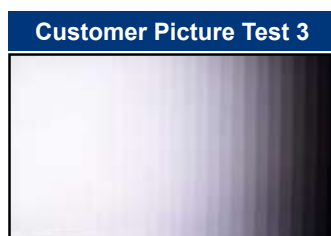
##### 1. If OK:

- ✓ Main Section.

##### 2. If Noisy:

- ✓ Post FRC Pattern.

##### 3. POST FRC of T-CON Section



Video Operation : **Generated at Post FRC of T-CON Section.**

##### 1. If OK:

- ✓ Main / T-CON Board (defective).

##### 2. If Noisy:

- ✓ Mute - 369 - Mute.

#### 4. T-CON Section



#### NOTE

May not be available for Larger models over 70 inches.

Video Operation : **Generated at T-CON Section.**

**1. If OK:**

- ✓ Main / T-CON Board (defective).

**2. If Noisy:**

- ✓ Main / T-CON Board.

#### ■ PANEL

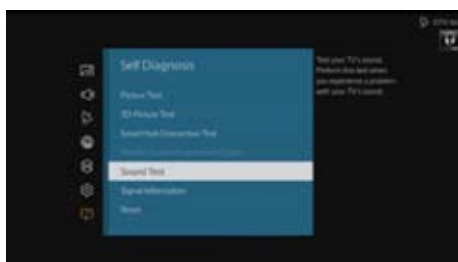


**3. If Noisy:**

- ✓ Panel (defective).

## 4-1-4. Audio

### ■ AUDIO TEST



#### Source

- **No TV Sound**
  - ✓ Menu → Audio → Speaker Settings set to **TV Speaker**
- **Noisy / Distorted TV Audio**
  - ✓ Customer Menu → Support → **Sound Test**
- **If **Sound Test** FAILS : (Missing / Noisy Audio)**
  - ✓ Speakers (compare resistance/quality)
    - Compare audio level out to speakers with multi meter.
  - ✓ Replace defective Speakers or Main Board or Cable.
- **IF **Sound Test** OK :**
  - ✓ Audio Source & External Cables.
  - ✓ With external Audio Generator (device or App).
  - ✓ Other Inputs.
  - ✓ One Connect Mini.
- **Optical Digital Out Errors**
  - ✓ Red light from Optical Digital Out.
    - If missing replace One Connect Mini
- **No HDMI Audio**
  - ✓ Source / HDMI Cable & One Connect Mini Connectors.
    - Swap with other HDMI Inputs/Sources.
    - Perform **EDID Write** in Factory Mode (Can restore missing HDMI Audio).
  - ✓ Bulletins and Latest firmware on TV.
    - If not restored replace One Connect Mini/Main.
    - Check Audio Format PCM/Dolby based on external Receiver.
- **ARC Issues**
  - ✓ HDMI Cable is input to the ARC Designated HDMI port.
  - ✓ ARC (HDMI Control) is enabled on the external Receiver.
- **Bluetooth Audio "**Sound Share**" Connection Issues**
  - ✓ Sound Bar is in TV Mode.
    - To Connect, Press & Hold Play Button until Sound Bar pairing mode begins.

## 4-1-5. Network

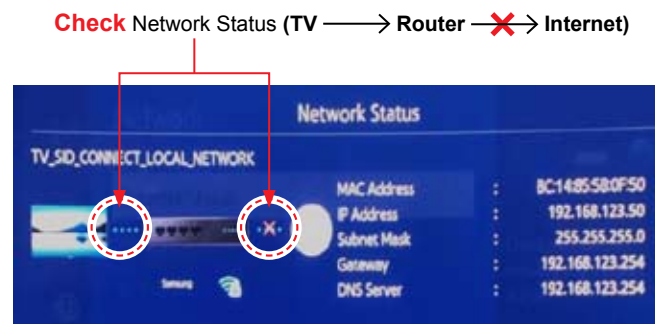


### ■ TV to Router "Failure"



- **Wired & Wireless MAC Address** in Customer Support Menu.
  - ✓ **No Wired MAC Address:** Replace Main Board.
  - ✓ **No Wireless MAC Address:** Module cabling & voltages from Main Board.
  - ✓ If operating voltages are OK but signal missing.
    - Replace WiFi Module (WiFi/Bluetooth Module).
- Proper **security passcode**
  - ✓ Check Wi-Fi signal strength at TV (use WiFi Analyzer or similar App).
    - Try another source (Hot spot or Test Router).
  - ✓ Check related Bulletins.
  - ✓ Check **Factory Mode** → **SVC** → **Info** → **WiFi Error Count** (replace module for high error counts).

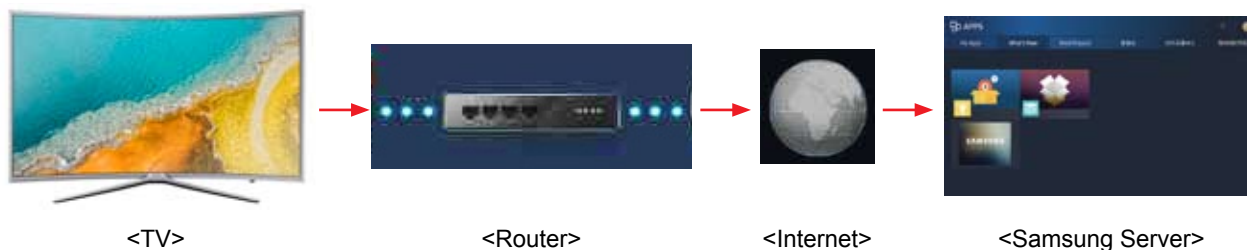
### ■ Router to Network "Failure"



- Instruct the customer the TV has proper connection to the router and is likely OK.
  - ✓ Check other devices using network are OK. If they test OK this does not mean the TV should be working.
- Try another source (Hotspot) to test/show TV Network operation.

## 4-1-6. Smart Hub

Go to [Menu > Support > Self Diagnosis > Smart Hub Connection Test](#)



- |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Network / Gateway</b>   | <ul style="list-style-type: none"> <li>• <b>If it Fails:</b> <ul style="list-style-type: none"> <li>✓ TV to Router Connection Test in "<a href="#">Network Trouble shooting</a>"</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                   |
| <b>2. DNS Test</b>            | <ul style="list-style-type: none"> <li>• <b>If it Fails:</b> <ul style="list-style-type: none"> <li>✓ DNS setting in "<a href="#">Network Settings</a>"</li> </ul> </li> <li>• <b>If DNS is set manually:</b> <ul style="list-style-type: none"> <li>✓ Settings are correct (may be set to 8.8.8.8 to prevent Netflix issues)</li> </ul> </li> <li>• <b>If it still fails:</b> <ul style="list-style-type: none"> <li>✓ DNS Test with setting to Auto Mode</li> </ul> </li> <li>• If it fails both Manual &amp; Auto problem is ISP or Router.</li> </ul> |
| <b>3. ISP Blocking</b>        | <ul style="list-style-type: none"> <li>• <b>If it Fails:</b> <ul style="list-style-type: none"> <li>✓ Internet Service Provider is Active.</li> <li>✓ With DNS setting at 8888.</li> <li>✓ With Hot Spot.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                          |
| <b>4. Samsung Server Test</b> | <ul style="list-style-type: none"> <li>• <b>If it Fails:</b> <ul style="list-style-type: none"> <li>✓ Network Status.</li> </ul> </li> <li>• <b>If OK:</b> <ul style="list-style-type: none"> <li>✓ Reset Smart Hub.</li> <li>✓ Terms of Agreement are accepted.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                   |
| <b>5. Samsung Apps</b>        | <ul style="list-style-type: none"> <li>• <b>If it Fails:</b> <ul style="list-style-type: none"> <li>✓ Reset Smart Hub.</li> <li>✓ Samsung Apps load correctly.</li> <li>✓ Perform "<a href="#">Apps Reset</a>" in Factory Mode.</li> <li>✓ Go to Smart Hub and complete Terms of Agreement and set up information.</li> <li>✓ Samsung Apps load correctly.</li> <li>✓ Before selecting an App, allow Apps to load or failure will occur.</li> </ul> </li> </ul>                                                                                           |

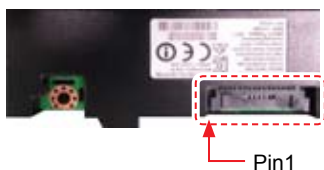
##### **For Netflix Operation/Connection Issues:**

- Check Certificate & Netflix ESN Status in Factory Mode.
  - If Certificate and ESN exists, "**CO**", "**Nfo**", change the **DNS** to **8.8.8.8**
  - If Certificate is missing, "**C**" replace the TV's Main Board.
  - If ESN number is missing: **NF**/ do not replace the Main Board.
    - Reset TV Clock and check for correct Time & Date. Netflix relies on correct settings.
    - Reset Smart Hub. / Reset Apps In Factory Mode.

##### **For Streaming Issues:**

- Go to TV Web Browser / Go to speedof.me / testmy.net
  - ✓ **Check Speed** for at least 5 Mbps(HD streaming) / 25 Mbps (4K Streaming).
  - ✓ **Check Latency** for less than 50ms.

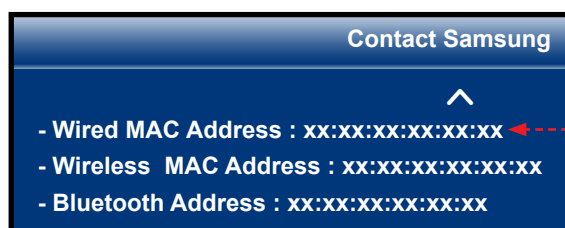
## 4-1-7. Bluetooth / WiFi Module



| BT / WIFI |              |    |              |
|-----------|--------------|----|--------------|
| 1         | BT_NRESET    | 2  | BT_POWER_DET |
| 3         | BT_WAKE      | 4  | -            |
| 5         | BT_D- _USB   | 6  | BT_D+ _USB   |
| 7         | -            | 8  | BT_WELCOME   |
| 9         | WIFI_PHY_ON  | 10 | -            |
| 11        | WIFI_D+ _USB | 12 | WIFI_D- _USB |
| 13        | -            | 14 | WIFI_5V      |
| 15        | WIFI_WOL     | 16 | WIFI_NRESET  |

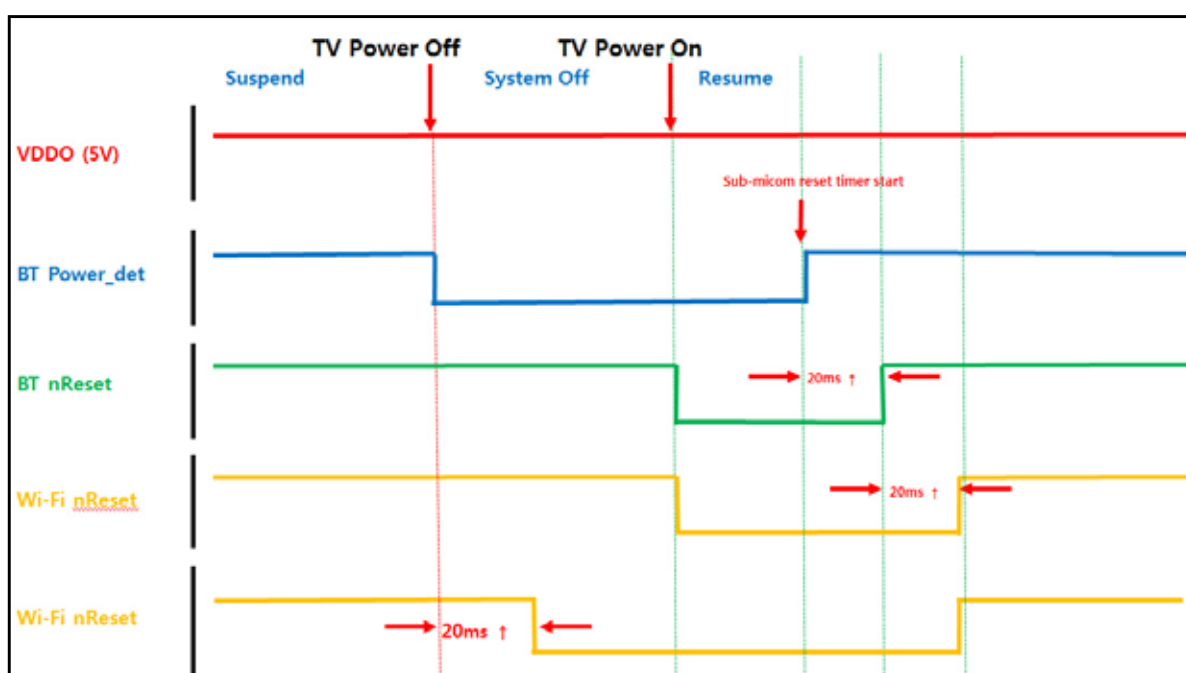
| Pins            | 1       | 2       | 3       | 4  | 5                                       | 6                                       | 7 | 8  | 9       | 10 | 11                                          | 12                                          | 13 | 14    | 15      | 16      |
|-----------------|---------|---------|---------|----|-----------------------------------------|-----------------------------------------|---|----|---------|----|---------------------------------------------|---------------------------------------------|----|-------|---------|---------|
| <b>Standby</b>  | 3.3 Vdc | 0       | 3.3 Vdc | NC | 0                                       | 0                                       | 0 | 0V | 0V      | 0  | 3 Vdc                                       | 0                                           | 0  | 5 Vdc | 3.3 Vdc | 3.3 Vdc |
| <b>Power ON</b> | 3.3 Vdc | 3.3 Vdc | 3.3 Vdc |    | 0.7V eff.dc<br>BT Sig<br>(DM)<br>4V p-p | 2.5V eff.dc<br>BT Sig<br>(DM)<br>4V p-p | 0 | 0V | 3.3 Vdc | 0  | 2.5V eff.dc<br>WIFI Sig<br>(DP)<br>0.5V p-p | 2.5V eff.dc<br>WIFI Sig<br>(DM)<br>0.5V p-p | 0  | 5 Vdc | 3.3 Vdc | 3.3 Vdc |

Go to [Menu > Support > Contact Samsung](#)



Missing or Error : Replace **Main Board**.

- If **Bluetooth Address** or **Wireless MAC Address** are missing or errors exist.
- BT & Wi-Fi Connector Voltages.
  - If Voltages are OK but no BT or Wi-Fi Signals voltage(s), replace defective Module.



## 4-2. Factory Mode Adjustments

### 4-2-1. Entering Factory Mode

To enter 'Service Mode' Press the remote-control keys in this sequence :

#### ■ Factory Remote

1. Power TV ON.
2. Select TV Source.
3. **Info** → **Factory**.
4. Use **MENU** for return.

#### ■ Samsung IR Remote (Limited Operation)

1. TV Power Standby.
2. Press as follows.
  - Remote Button : **MUTE** → **1** → **8** → **2** → **Power**
  - **Option** (must set Option Bytes when replacing Main Board.)
  - Option → **Factory Reset** (returns TV to out of box condition. Does not reset Apps.)
  - SVC → **Test Patterns**
  - SVC → Info → **ER Count** (Important to check for errors.)
    - Resets to 0 with Factory Reset.

## First Screen Appearing in Factory Mode (SAMPLE)

| Option   | Content                                     | Checkmark | Description                                                                                                                    |
|----------|---------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| Control  | T-HKMFKAUC_-xxxx (T-HKMFKAUC-**** : AG****) | ✓         | Micom SW Version                                                                                                               |
| Debug    | T-HKMFKAUC_-xxxx                            | ✓         | Sub Micom SW Version                                                                                                           |
| SVC      | tzv-2.4-main2016-hawk-m-fhd_2016*****       |           |                                                                                                                                |
| ADC/WB   | BT Version : xxxx                           |           |                                                                                                                                |
| Advanced | E-Manual : ----                             |           |                                                                                                                                |
|          | Camera Version : Not Support                |           |                                                                                                                                |
|          | Blaster Version :Not Support                |           |                                                                                                                                |
|          | E-POP Version :HAWKMFD-****.**              |           |                                                                                                                                |
|          | EDID SUCCESS                                |           |                                                                                                                                |
|          | HDCP SUCCESS                                |           |                                                                                                                                |
|          | CALIB : AV/COMP/PC/HDMI/                    |           |                                                                                                                                |
|          | Option : xxxx,xxxx,6250,NONE                |           |                                                                                                                                |
|          | DTCP Not Support                            |           |                                                                                                                                |
|          | TCON Version : -----                        |           |                                                                                                                                |
|          | Model : *****                               |           |                                                                                                                                |
|          | Wired MAC SUCCESS                           | ✓         | Wired MAC (Status)                                                                                                             |
|          | Wireless MAC SUCCESS                        | ✓         | Wireless MAC (Wi-Fi Module)                                                                                                    |
|          | WIFI : ***** (3.0.7.107)                    |           |                                                                                                                                |
|          | CO Nf/W/M/D/HO P / AO O S / M RO SC SiX     | ✓         | CO NFO WO. etc.                                                                                                                |
|          | Factory Data Ver : 126 EERC Version :       |           | <ul style="list-style-type: none"> <li>• Certificate</li> <li>• Netflix</li> <li>• Wide Vine</li> <li>• etc. Status</li> </ul> |
|          | CPLD/HD :N/A                                |           |                                                                                                                                |
|          | SmartControl : ****                         |           |                                                                                                                                |
|          | Date of purchase : mm/dd/yyyy               |           |                                                                                                                                |

## 4-2-2. Detail Factory Option



### NOTE

If you replace the main board with new one, please change the factory option as well.  
The options you must change are "**Type**".

### ■ UN40K6250AFXZA

| Inches     |               | 40"                 |
|------------|---------------|---------------------|
|            |               | FA01                |
| PANEL      | Vendor        | SDC                 |
|            | Code          | BN95-02615C         |
|            | Spec.         | CY-VK040BGLV3V/H    |
| SMPS BOARD | Vendor        | DYREL               |
|            | Code          | BN44-00871A         |
|            | Spec.         | L40E1_KDY,AC/DC,93W |
| MAIN BOARD | Chassis Ass'y | BN91-17373A         |
|            | PBA Ass'y     | BN94-10994M         |
| Byte       | Item          |                     |
| 0          | Factory Reset | -                   |
| 1          | Type          | 40A6AFARK           |
| 2          | Local set     | US                  |
| 3          | SW Model      | UK6250              |
| 4          | BOM Model     | 6250                |
| 5          | Tuner         | -                   |
| 6          | Ch table      | NONE                |

## ■ UN49K6250AFXZA

| Inches     |               | 49"              |
|------------|---------------|------------------|
|            |               | FA01             |
| PANEL      | Vendor        | SDC              |
|            | Code          | BN95-02618C      |
|            | Spec.         | CY-VK049BGLV3V/H |
| SMPS BOARD | Vendor        | DYREL            |
|            | Code          | BN44-00872A      |
|            | Spec.         | L55E1_KDY,AC/DC  |
| MAIN BOARD | Chassis Ass'y | BN91-17270A      |
|            | PBA Ass'y     | BN94-10995P      |
| Byte       | Item          |                  |
| 0          | Factory Reset | -                |
| 1          | Type          | 49A6AFARK        |
| 2          | Local set     | US               |
| 3          | SW Model      | UK6250           |
| 4          | BOM Model     | 6250             |
| 5          | Tuner         | -                |
| 6          | Ch table      | NONE             |

## ■ UN55K6250AFXZA

| Inches     |               | 55"              |                  |
|------------|---------------|------------------|------------------|
|            |               | FA01             | AA02             |
| PANEL      | Vendor        | SDC              | AUO              |
|            | Code          | BN95-02625C      | BN95-02621B      |
|            | Spec.         | CY-VK055BGLV3V/H | CY-VK055BGAV2V/H |
| SMPS BOARD | Vendor        | DYREL            | DYREL            |
|            | Code          | BN44-00872A      | BN44-00872A      |
|            | Spec.         | L55E1_KDY        | L55E1_KDY        |
| MAIN BOARD | Chassis Ass'y | BN91-17271A      | BN91-17271V      |
|            | PBA Ass'y     | BN94-10996P      | BN94-10794V      |
| Byte       | Item          |                  |                  |
| 0          | Factory Reset | -                |                  |
| 1          | Type          | 55A6AFARK        | 55L6AFARK        |
| 2          | Local set     | US               |                  |
| 3          | SW Model      | UK6250           |                  |
| 4          | BOM Model     | 6250             |                  |
| 5          | Tuner         | -                |                  |
| 6          | Ch table      | NONE             |                  |

## 4-2-3. Factory Data

### ■ Option

| Factory Menu Name    |     | Data                 | Range |
|----------------------|-----|----------------------|-------|
| <b>Factory Reset</b> |     | -                    |       |
| <b>Type</b>          | 40" | 40A6AFARK            |       |
|                      | 49" | 49A6AFARK            |       |
|                      | 55" | 55A6AFARK, 55L6AFARK |       |
| <b>Local Set</b>     |     | US                   |       |
| <b>SW Model</b>      |     | UK6250               |       |
| <b>BOM Model</b>     |     | 6250                 |       |
| <b>TUNER</b>         |     | -                    |       |
| <b>Ch Table</b>      |     | NONE                 |       |
| <b>MRT Option</b>    |     |                      |       |

### ■ Control

| Factory Menu Name       |  | Data        | Range |
|-------------------------|--|-------------|-------|
| <b>EDID</b>             |  |             |       |
| EDID ON/OFF             |  | OFF         |       |
| EDID WRITE ALL          |  | ...         |       |
| EDID WRITE HDMI         |  | ...         |       |
| EDID WRITE PC           |  | ...         |       |
| HDMI EDID Ver           |  | ...         |       |
| HDMI EDID Port          |  | ...         |       |
| <b>Sub Option</b>       |  |             |       |
| RS-232 Jack             |  | UART        |       |
| EXT Link Support        |  | ON          |       |
| Serial Log On/Off       |  | OFF         |       |
| Watchdog                |  | ON          |       |
| FRC Monitoring          |  | OFF         |       |
| Checksum                |  | 0x0000      |       |
| Fast Boot In Production |  | ON          |       |
| USB Serial              |  | OFF         |       |
| ECO IC TYPE             |  | MC8121      |       |
| Info Link Server Type   |  | development |       |
| Info Link Country       |  | None        |       |
| TTX Group               |  | UserOSD     |       |
| Visual Test             |  | Diable      |       |

#### 4. Troubleshooting

| Factory Menu Name          | Data      | Range |
|----------------------------|-----------|-------|
| OPTION_SWU                 |           |       |
| RF Remocon Support         | OFF       |       |
| CDD mode                   | ...       |       |
| DPMS Support               | OFF       |       |
| T-CON Device               | JazzFT    |       |
| RM Server Type             | Operating |       |
| LMF LEAVE THRESHOLD        | 160       |       |
| LMF TRIM THRESHOLD         | 120       |       |
| LMF TERM THRESHOLD         | 80        |       |
| EOS Click                  | OFF       |       |
| BP PMS Reset               | 1         |       |
| FAnet Thread               | 2         |       |
| CI CPLD Version            | 1         |       |
| ACM_MC                     | ON        |       |
| UNIQUE TRIPLET             | ON        |       |
| FS_FAV                     | OFF       |       |
| Private Range USE          | ON        |       |
| SCSA Support               | OFF       |       |
| OCM Reboot                 | ON        |       |
| SPI Protection             |           |       |
| FKP Server Type            | Default   |       |
| OCM Support                | ON        |       |
| Preloading Support         | ON        |       |
| Multitasking Support       | ON        |       |
| Browser preloading Support | FULL      |       |
| EXT IR Boot Support        | OFF       |       |
| APP BOOTING SUPPORT        | ON        |       |
| NagSam Support             | OFF       |       |
| EWBS Support               | OFF       |       |
| MVPD MBR Provider          | COMCAST   |       |
| cloudscan Always Upload    | OFF       |       |
| FirstScreen Cach Size      | 300       |       |
| <b>Hotel Option</b>        |           |       |
| Hospitality Mode           | OFF       |       |
| Power On                   |           |       |
| Menu OSD                   |           |       |
| Operation                  |           |       |

| Factory Menu Name      | Data       | Range                                                                                                                                                        |
|------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Music Mode             |            |                                                                                                                                                              |
| External Source        |            |                                                                                                                                                              |
| Eco Solution           |            |                                                                                                                                                              |
| Cloning                |            |                                                                                                                                                              |
| <b>Shop Option</b>     |            |                                                                                                                                                              |
| Exhibition Mode        | OFF        |                                                                                                                                                              |
| Peak Mode              | ON         |                                                                                                                                                              |
| Metadata               | ON         |                                                                                                                                                              |
| Shopmode Picture Reset | ON         |                                                                                                                                                              |
| <b>Asia Option</b>     |            |                                                                                                                                                              |
| Unbalance              | OFF        |                                                                                                                                                              |
| AF Level adjust        | 0          |                                                                                                                                                              |
| TX Power Level         | 0          |                                                                                                                                                              |
| Mono Last Memory       | OFF        |                                                                                                                                                              |
| H Shaking              | 0          |                                                                                                                                                              |
| <b>SOUND</b>           |            |                                                                                                                                                              |
| High Devi              | OFF        | *If the broadcast signal is not good, TV will complement the characteristics of the signal (most use when weak signal comes from the growing area countries) |
| Carrier_Mute           | ON         | *If the noise comes from weakness-electromagnetic field, TV will be set Mute automatically(Only default on in North America)                                 |
| Pilot Level High Thld  | 0x20h      | * The High threshold value of stereo signal(If Pilot level is greater than High threshold value, recognize Stereo signal)                                    |
| Pilot Level Low THLD   | 0x10h      | * The Low threshold value of stereo signal(If Pilot level is less than Low threshold value, recognize Mono signal)                                           |
| Carrier2 Amp High ThLD | 9          |                                                                                                                                                              |
| Carrier2 Amp Low THLD  | 6          |                                                                                                                                                              |
| Amp Volume             | 0xc4h      |                                                                                                                                                              |
| Amp Scale              | 0x3ch      |                                                                                                                                                              |
| Amp EQ Check Sum       | 0x000057B5 |                                                                                                                                                              |
| Subwoofer Support      | 3          |                                                                                                                                                              |
| Woofer Type            | 0          |                                                                                                                                                              |
| Woofer Volume          | 0xc7h      |                                                                                                                                                              |
| Woofer Scale           | 0x3fh      |                                                                                                                                                              |
| Woofer Check sum       | 0x0000A273 |                                                                                                                                                              |
| PEQ Inx                | 76         |                                                                                                                                                              |
| PEQ Test               | Ready      |                                                                                                                                                              |

#### 4. Troubleshooting

| Factory Menu Name    | Data   | Range |
|----------------------|--------|-------|
| Speaker EQ           | ON     |       |
| Bottom Checksum      | NONE   |       |
| Wall Filter Type     | 3      |       |
| SRS Tuning Parm      | 0      |       |
| SPDIF PCM Gain       | -9     |       |
| AudioDock BT Delay   | 90     |       |
| 3D_Glass BT delay    | 50     |       |
| Mic Scale            | OFF    |       |
| India Sound          | 0      |       |
| Speaker Delay Normal | 0      |       |
| NTV CU Delay         | NORMAL |       |
| Lipsync Inx          | 1      |       |
| Lipsync Checksum     | 0x4972 |       |
| Lipsync USB Test     | Ready  |       |
| Lipsync BT Checksum  | 0x0000 |       |
| TP volume            | 0xc4h  |       |
| TP Scale             | 0x6ch  |       |
| TP EQ CheckSum       | NONE   |       |

#### ■ Debug

| Factory Menu Name      | Data | Range |
|------------------------|------|-------|
| <b>Spread Spectrum</b> |      |       |
| LVDS Spread            | 0    |       |
| DDR Spread             | 0    |       |
| Period                 | 0    |       |
| Amplitude              | 0    |       |
| HD DDR SSC ON OFF      | OFF  |       |
| HD DDR SSC Value       | 0    |       |
| FHD DDR SSC ON OFF     | OFF  |       |
| FHD DDR SSC Value      | 4    |       |
| UHD DDR SSC ON OFF     | ON   |       |
| UHD DDR SSC Value      | 0    |       |
| P eBus SSC ON/OFF      | OFF  |       |
| P eBus Value           | 0    |       |
| LVDS SSC ON/OFF        | OFF  |       |
| LVDS SSC Value         | 0    |       |
| AP Vx1 SSC ON/OFF      | ON   |       |

| Factory Menu Name               | Data   | Range                   |
|---------------------------------|--------|-------------------------|
| AP Vx1 Value                    | 12     |                         |
| N Vx1 SSC ON/OFF                | ON     |                         |
| N Vx1 Value                     | 0      |                         |
| FRC Vx1 SSC ON/OFF              | OFF    |                         |
| FRC Vx1 SSC Period              | 0      |                         |
| FRC Vx1 SSC Modulation          | 0      |                         |
| FRC LVDS ON/OFF                 | ON     |                         |
| FRC LVDS SSC MFR                | 3      |                         |
| FRC LVDS SSC MRR                | 2      |                         |
| FRC DDR SSC ON/OFF              | ON     |                         |
| FRC DDR SSC Period              | 1      |                         |
| FRC DDR SSC Modulation          | 2      |                         |
| ADV7619 Data strength           | 1      |                         |
| ADV7619 Clock strength          | 1      |                         |
| ADV7619 H_V_DE strength         | 1      |                         |
| AP DDR SSC ON/OFF               | OFF    |                         |
| AP DDR SSC Value                | 0      |                         |
| AP USIT SSC ON/OFF              | ON     |                         |
| AP USIT SSC Value               | 13     |                         |
| OCM Vx1 SSC ON/OFF              | OFF    |                         |
| OCM Vx1 SSC Value               | 0      |                         |
| TCON USIT SSC ON/OFF            | BYPASS |                         |
| <b>DDR Margin</b>               |        |                         |
| A CTRL_OFFSET_0_3               | 0      |                         |
| A CTRL_OFFSET_D                 | 0      |                         |
| B CTRL_OFFSET_0_3               | 0      |                         |
| B CTRL_OFFSET_D                 | 0      |                         |
| <b>BT_ON_OFF</b>                | ON     |                         |
| <b>RF Mute Time</b>             | 600ms  |                         |
| <b>Tuner Margin</b>             | 3      | European specifications |
| <b>FRC</b>                      |        |                         |
| FRC FDISPLAY ON/OFF             | OFF    |                         |
| 3D FDISPLAY ON/OFF              | OFF    |                         |
| PC Mode ON/OFF                  | OFF    |                         |
| FRC VX1 RX EQ SETTING           | OFF    |                         |
| FRC VX1 TX Pre_emphasis setting | 0      |                         |
| Netflix OSD Threshold           | 179    |                         |

#### 4. Troubleshooting

| Factory Menu Name             | Data    | Range |
|-------------------------------|---------|-------|
| <b>TCON</b>                   |         |       |
| TCON_TEMP READ                | 34      |       |
| TEMP LAST                     | 6000    |       |
| DCC VERSION                   | 0x0     |       |
| TCON Demura Bypass            | OFF     |       |
| TCON FDisplay                 | OFF     |       |
| Panel Code 1                  |         |       |
| Panel Code 2                  |         |       |
| Panel Revision                |         |       |
| Panel Menu Week               |         |       |
| Panel S/N 1                   |         |       |
| Panel S/N 2                   |         |       |
| Panel S/N 3                   |         |       |
| Panel S/N 4                   |         |       |
| <b>MPEG Margin</b>            | 20      |       |
| <b>H.264 Margin</b>           | 15      |       |
| <b>CAM Wait Time</b>          | 15      |       |
| <b>Voice Debug</b>            | OFF     |       |
| <b>Power Management</b>       |         |       |
| <b>Cert Option</b>            | Waiting |       |
| <b>RM_BIST_DTV</b>            | 0       |       |
| <b>RM_BIST_ATV</b>            | 0       |       |
| <b>RM_BIST_CABLE</b>          | 0       |       |
| <b>SerDES Check</b>           |         |       |
| SerDES Tuner                  | Failure |       |
| HDMI SW                       | Failure |       |
| HDMI Rx                       | Failure |       |
| MP                            | Failure |       |
| Main SerDES                   | Failure |       |
| Jack SerDES                   | Failure |       |
| <b>Stress Mode</b>            | OFF     |       |
| <b>Log Analyzer</b>           | ON      |       |
| <b>Error Popup On/Off</b>     | OFF     |       |
| <b>DeadLock KILL</b>          | OFF     |       |
| <b>CES Option</b>             | OFF     |       |
| <b>CES Convergence Option</b> | OFF     |       |
| <b>CES ATSC 3_0</b>           | OFF     |       |

| Factory Menu Name            | Data    | Range |
|------------------------------|---------|-------|
| <b>CES OOBE MVPD SUPPORT</b> | OFF     |       |
| <b>BT DUT</b>                | OFF     |       |
| <b>BT Throughput</b>         | Failure |       |
| <b>Reproduce Module</b>      | ON      |       |
| <b>21_9</b>                  |         |       |
| L-DETECT STABLE TIME         | 7       |       |
| L-DETECT UNSTABLE TIME       | 3       |       |
| L-DETECT CAPTION THRESHOLD   | 720     |       |
| L-DETECT RAGION THRESHOLD    | 720     |       |
| L-DETECT B-LEVEL THRESHOLD   | 32      |       |
| L-DETECT USB SUPPORT         | 0       |       |
| <b>DB Download</b>           |         |       |
| MRT Option Dump              | Failure |       |
| Picture Data Dump            | Failure |       |
| VCONF Dump                   | Failure |       |
| <b>Read Eco Sensor Data</b>  | 0       |       |
| <b>No Signal Power OFF</b>   | ON      |       |
| <b>Alert Option</b>          | ON      |       |
| <b>Default HDMI1 Booting</b> | OFF     |       |

## ■ SVC

| Factory Menu Name        | Data    | Range                                     |
|--------------------------|---------|-------------------------------------------|
| <b>Self Test(for HW)</b> |         | * the Output of test pattern from each IC |
| <b>Info</b>              |         |                                           |
| <b>Reset</b>             |         |                                           |
| Apps Reset               |         |                                           |
| SVC Reset                |         |                                           |
| SPI Flash Reset          |         |                                           |
| Data Sync Reset          |         |                                           |
| Factory Data Reset       |         |                                           |
| <b>OPTION_HDMI</b>       |         |                                           |
| DVI/HDMI SOUND           | Auto    |                                           |
| HDMI HOT PLUG            | Disable |                                           |
| HOTPLUG SWITCHING        | Auto    |                                           |
| HOT PLUG DURATION        | 800ms   |                                           |
| CLK TERM DURATION        | 300ms   |                                           |
| HDMI FLT CNT SIG         | 0ms     |                                           |

#### 4. Troubleshooting

| Factory Menu Name      | Data   | Range |
|------------------------|--------|-------|
| HDMI FLT CND SIG2      |        |       |
| HDMI FLT CNT LOS       | 0ms    |       |
| UNSTABLE BAN CNT       | 1250ms |       |
| HDMI ROBIN             | 0      |       |
| HDMI Callback          | ON     |       |
| HDMI CTS Thld          | 0      |       |
| HDMI CTS Cnt1          | 0      |       |
| HDMI EQ                | 0      |       |
| HDMI Write Type        | 0      |       |
| HDMI Switch            | 0      |       |
| DVI SET TIME           | 0      |       |
| H Write                | 0      |       |
| HDMI Sync              | 0      |       |
| HDMI 3D DET            | 1      |       |
| HOT PLUG OFF HOLD TIME | 600ms  |       |
| HDMI MUTE TIME         | 0ms    |       |
| HDMI NFST UNMUTE TIME  | 800ms  |       |
| HDMI FST UNMUTE TIME   | 0ms    |       |
| REPEAAUDIO PKT         | OFF    |       |
| HDMI Stable Count      | 3      |       |
| HDMI HDCP EN           | OFF    |       |
| HDMI HDCP EN FLAG      | 85     |       |
| POWER ON FLT CNT LOS   |        |       |
| HDCP UPDATE SPI        | READY  |       |
| SPI VERSION            | 0      |       |
| HdmiRx EQ              | 0      |       |
| HDMI TMDS ERR DET      | 1      |       |
| <b>DVB CI</b>          |        |       |
| TS Clock delay TC      | 0      |       |
| TS Clock delay S       | 0      |       |
| CI Control Buf ON      | ON     |       |
| TS Clock delay CPU     | 1      |       |
| TS Clock delay TC2     | 0      |       |
| TS Clock delay S2      | 0      |       |
| CI Control Buf ON2     | 1      |       |
| TS Clock delay CPU2    | 0      |       |
| <b>Test Pattern</b>    |        |       |

| Factory Menu Name       | Data | Range                                                                  |
|-------------------------|------|------------------------------------------------------------------------|
| Scaler Pattern          | OFF  |                                                                        |
| US Post Pattern         | OFF  |                                                                        |
| FRC Pre Pattern         | 0    |                                                                        |
| FRC Post Pattern        | 0    |                                                                        |
| SOC TCON Pattern        | 0    |                                                                        |
| SOC TCON Pattern Level  | 255  |                                                                        |
| FRC OSD Pre Pattern     | 0    |                                                                        |
| FRC OSD Post Pattern    | 0    |                                                                        |
| FRC2 Pre Pattern        | 0    |                                                                        |
| FRC2 Post Pattern       | 0    |                                                                        |
| SOC TCON2 Pattern       | 0    |                                                                        |
| SOC TCON2 Pattern Level | 255  |                                                                        |
| <b>Upgrade</b>          |      |                                                                        |
| T-CON DATA UPGRADE      |      |                                                                        |
| T-CON FW UPGRADE        |      |                                                                        |
| T-CON CheckSum          |      |                                                                        |
| T-CON2 Usb Download     |      |                                                                        |
| T-CON2 CheckSum         |      |                                                                        |
| PANEL EEPROM UPGRADE    |      |                                                                        |
| PANEL FLASH UPGRADE     |      |                                                                        |
| Logic Usb D/L           |      |                                                                        |
| SUBMICOM UPGRADE        |      | * Upgrade Sub-Micom Program                                            |
| SUBMICOM JP USB UPGRADE |      |                                                                        |
| BT UPGRADE              |      | * Upgarde BT(There is upgrade program in Main-Image)                   |
| BT FREEPAIRING          |      |                                                                        |
| Function Upgrade        |      |                                                                        |
| FRC3D FW UPGRADE        |      |                                                                        |
| FRC3D SRP UPGRADE       |      |                                                                        |
| FRC3D LD UPGRADE        |      |                                                                        |
| FRC2 3D FW UPGRADE      |      |                                                                        |
| Camera Upgrade          |      | * Upgarde Camera module(There is upgrade program in Main-Image)        |
| Mic Upgrade             |      | * Upgarde MIC in Camera module(There is upgrade program in Main-Image) |
| Jump UPGRADE            |      |                                                                        |
| IR Blaster Upgrade      |      |                                                                        |
| IR Blaster delay time   |      |                                                                        |
| NTV CU UPDATE           |      |                                                                        |

#### 4. Troubleshooting

| Factory Menu Name      | Data       | Range |
|------------------------|------------|-------|
| UD LDC PROFILE UPGRADE |            |       |
| Pic Data USB Update    |            |       |
| Audio Data USB Update  |            |       |
| Eco Data USB Update    |            |       |
| CI CPLD Upgrade        |            |       |
| SC ADK Upgrade         |            |       |
| <b>Other Setting</b>   |            |       |
| Delete S/N             |            |       |
| IPERF                  | Stopped    |       |
| Expert                 |            |       |
| CAL Data Backup        | ...        |       |
| CAL Data Restore       |            |       |
| MICOM POWER OFF        | ON         |       |
| NTV CU FW VER          | 0          |       |
| ATV IF AGC SPEED       | 0          |       |
| Upgrade UHD OSD Test   | 0          |       |
| Main USB Path          |            |       |
| JackP USB Path         |            |       |
| Source Direct On/Off   | OFF        |       |
| Apps Update            |            |       |
| Auto Power             | LAST POWER |       |
| SMCE Control           |            |       |
| Motor Test             |            |       |
| Cube Test              |            |       |
| V APP                  | OFF        |       |
| Picture Direct On/Off  | OFF        |       |
| <b>SVC Panel</b>       | ORIGINAL   |       |
| <b>S/N</b>             |            |       |
| Serial number          |            |       |
| Writing S/N            |            |       |

#### ■ ADC/WB

| Factory Menu Name | Data | Range |
|-------------------|------|-------|
| <b>ADC</b>        |      |       |
| AV Calibration    |      |       |
| Comp Calibration  |      |       |
| PC Calibration    |      |       |

| Factory Menu Name    | Data | Range |
|----------------------|------|-------|
| HDMI Calibration     |      |       |
| <b>ADC Result</b>    |      |       |
| 1st_Y_GH             | 0    |       |
| 1st_Y_GL             | 0    |       |
| 1st_Cb_BH            | 0    |       |
| 1st_Cb_BL            | 0    |       |
| 1st_Cr_RH            | 0    |       |
| 1st_Cr_RL            | 0    |       |
| 2nd_R_L              | 128  |       |
| 2nd_G_L              | 128  |       |
| 2nd_B_L              | 128  |       |
| 2nd_R_H              | 69   |       |
| 2nd_G_H              | 69   |       |
| 2nd_B_H              | 69   |       |
| <b>White Balance</b> |      |       |
| R-Offset             | 128  |       |
| G-Offset             | 128  |       |
| B-Offset             | 128  |       |
| R-Gain               | 128  |       |
| G-Gain               | 128  |       |
| B-Gain               | 128  |       |
| WB-W2_R_Offset       | 128  |       |
| WB_W2_B_Offset       | 128  |       |
| WB_W2_R_Gain         | 136  |       |
| WB_W2_B_Gain         | 76   |       |
| WB_N_R_Offset        | 128  |       |
| WB_N_B_Offset        | 128  |       |
| WB_N_R_Gain          | 131  |       |
| WB_N_B_Gain          | 119  |       |
| <b>MGA</b>           |      |       |
| MGA On/Off           | OFF  |       |
| R1_Gain              |      |       |
| G1_Gain              |      |       |
| B1_Gain              |      |       |
| R2_Gain              |      |       |
| G2_Gain              |      |       |
| B2_Gain              |      |       |

#### 4. Troubleshooting

| Factory Menu Name        | Data | Range |
|--------------------------|------|-------|
| R3_Gain                  |      |       |
| G3_Gain                  |      |       |
| B3_Gain                  |      |       |
| R4_Gain                  |      |       |
| G4_Gain                  |      |       |
| B4_Gain                  |      |       |
| R5_Gain                  |      |       |
| G5_Gain                  |      |       |
| B5_Gain                  |      |       |
| R6_Gain                  |      |       |
| G6_Gain                  |      |       |
| B6_Gain                  |      |       |
| R7_Gain                  |      |       |
| G7_Gain                  |      |       |
| B7_Gain                  |      |       |
| R8_Gain                  |      |       |
| G8_Gain                  |      |       |
| B8_Gain                  |      |       |
| R9_Gain                  |      |       |
| G9_Gain                  |      |       |
| B9_Gain                  |      |       |
| R10_Gain                 |      |       |
| G10_Gain                 |      |       |
| B10_Gain                 |      |       |
| <b>SPI White Balance</b> |      |       |
| SPI White Balance On/Off |      |       |
| SPI R-Offset             |      |       |
| SPI G-Offset             |      |       |
| SPI B-Offset             |      |       |
| SPI R-Gain               |      |       |
| SPI G-Gain               |      |       |
| SPI B-Gain               |      |       |
| SPI N Rgain              |      |       |
| SPI N Bgain              |      |       |
| SPI N Roffset            |      |       |
| SPI N Boffset            |      |       |
| SPI W2 Rgain             |      |       |

---

| Factory Menu Name     | Data | Range |
|-----------------------|------|-------|
| SPI W2 Bgain          |      |       |
| SPI W2 Roffset        |      |       |
| SPI W2 Boffset        |      |       |
| <b>SPI MGA</b>        |      |       |
| <b>WB Data to SPI</b> |      |       |

## ■ Advanced

## 4-3. White Balance

### 4-3-1. Calibration

1. Into the Factory Mode.
2. Select **ADC/WB** menu.
3. Select **ADC** menu.

|               |                  |
|---------------|------------------|
| Option        | AV Calibration   |
| Control       | Comp Calibration |
| Debug         | PC Calibration   |
| SVC           | HDMI Calibration |
| <b>ADC/WB</b> |                  |
| Advanced      |                  |

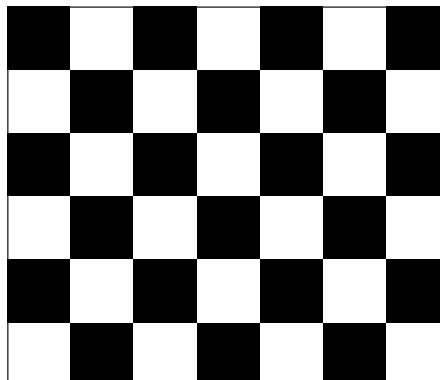
### 4-3-2. Service Adjustment

You must perform Calibration in the Lattice Pattern before adjusting the White Balance.

#### ■ Color Calibration

- Adjust Specification

| Source | Setting Mode     | Pattern                     | Use Equipment                    |
|--------|------------------|-----------------------------|----------------------------------|
| HDMI   | 1280 x 720@60 Hz | Pattern #24 (Chess Pattern) | CA210 & Master MSPG925 Generator |



(Chess Pattern)

- Use other equipment only after comparing the result with that of the Master equipment.

| Input mode               | Calibration                                    | Pattern |
|--------------------------|------------------------------------------------|---------|
| CVBS IN (Model_#1)       | Perform in NTSC B&W Pattern #24                | Lattice |
| Component IN (Model_#6)  | Perform in 720p B&W Pattern #24                | Lattice |
| PC Analog IN (Model_#21) | Perform in VESA XGA (1024x768) B&W Pattern #24 | Lattice |
| HDMI IN                  | Perform in 720p B&W Pattern #24                | Lattice |

**Method of Color Calibration (AV)**

1. Apply the NTSC Lattice (N0. 3) pattern signal to the AV IN 1 port.
2. Press the Source key to switch to "AV1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "AV Calibration" menu.
6. In "AV Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "AV Calibration" status from Failure to Success.

**Method of Color Calibration (Component)**

1. Apply the 720p Lattice (N0. 6) pattern signal to the Component IN 1 port.
2. Press the Source key to switch to "Component1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "Comp Calibration" menu.
6. In "Comp Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "Comp Calibration" status from Failure to Success.

**Method of Color Calibration (PC)**

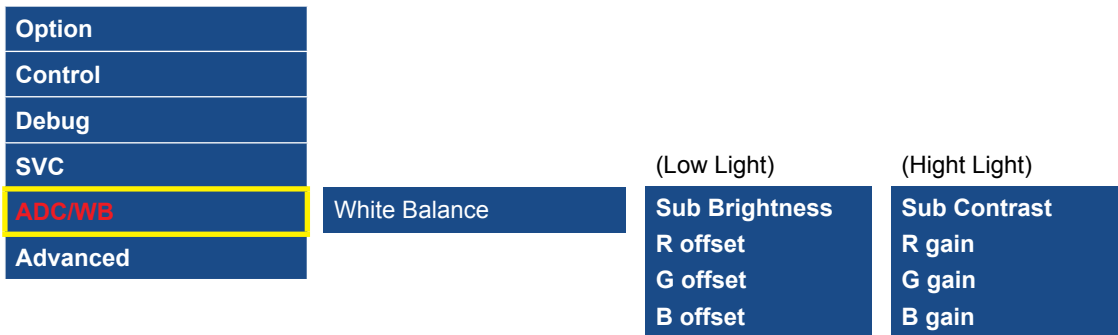
1. Apply the VESA XGA Lattice (N0. 21) pattern signal to the PC IN port.
2. Press the Source key to switch to "PC" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "PC Calibration" menu.
6. In "PC Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "PC Calibration" status from Failure to Success.

**Method of Color Calibration (HDMI)**

1. Apply the 720p Lattice (N0. 6) pattern signal to the HDMI1/DVI IN port.
2. Press the Source key to switch to "HDMI1" mode.
3. Enter Service mode.
4. Select the "ADC" menu.
5. Select the "HDMI Calibration" menu.
6. In "HDMI Calibration Off" status, press the "▶" key to perform Calibration.
7. When Calibration is complete, it returns to the high-level menu.
8. You can see the change of the "HDMI Calibration" status from Failure to Success.

4-3-3. Adjustment

- 1. Into the Factory Mode.
- 2. Select **ADC/WB** menu.
- 3. Select **White Balance** menu.



## 4-4. Updating the TV's Software

View your TV's software version and update it if necessary.

- [Settings](#) → [Support](#) → [Software Update](#)

### ■ Updating the TV's software to the latest version

- [Settings](#) → [Support](#) → [Software Update](#) → [Update now](#)

You can update your TV's software by downloading the update from the Internet directly to your TV or copying the update from a USB device that contains it to your TV.

- Updating from the Internet requires an active Internet connection.
- To update using a USB flash drive, download the update package from Samsung.com to your computer. Then, save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.



**CAUTION**

DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. All video and audio settings return to their default settings after a software update.

### ■ Updating the TV automatically

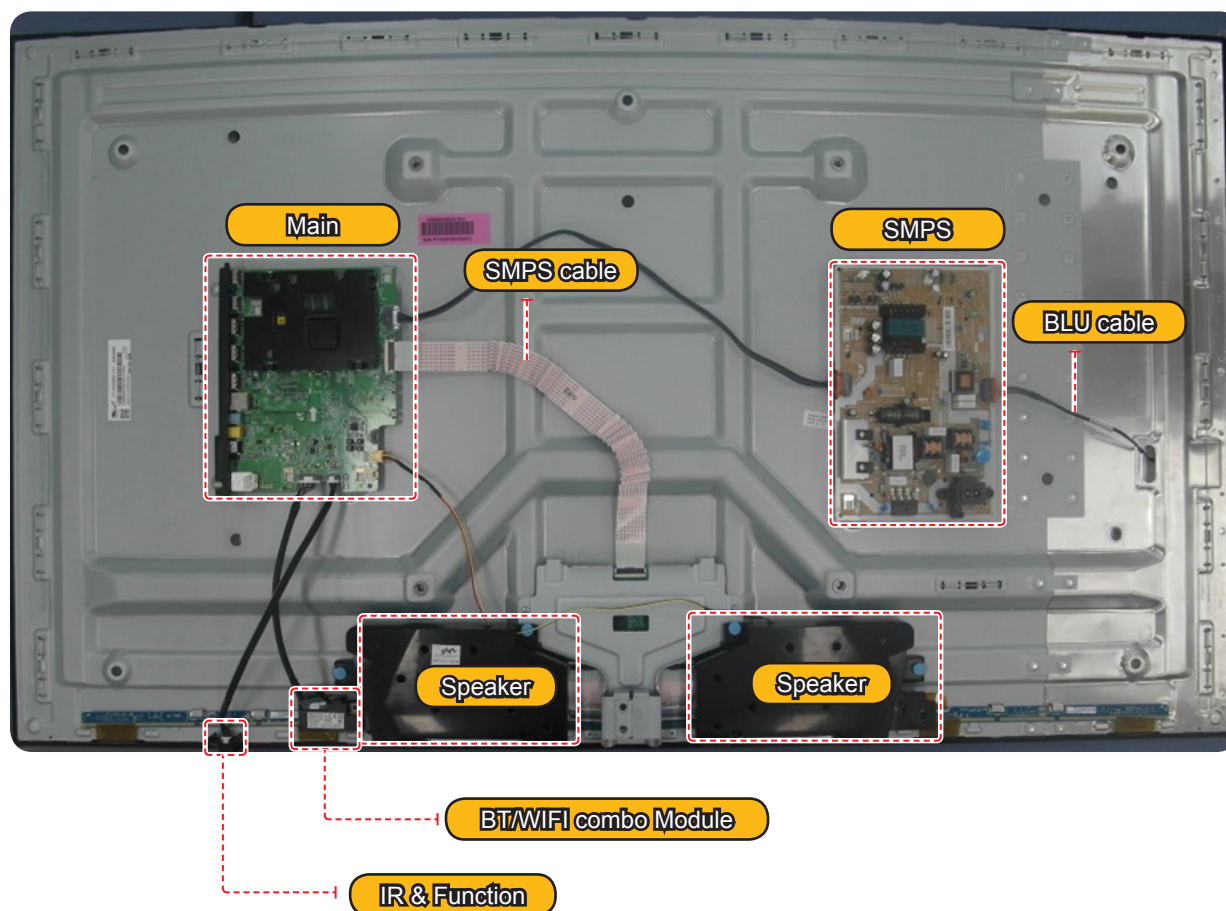
- [Settings](#) → [Support](#) → [Software Update](#) → [Auto Update](#)

If the TV is connected to the Internet, you can have the TV's software update itself automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

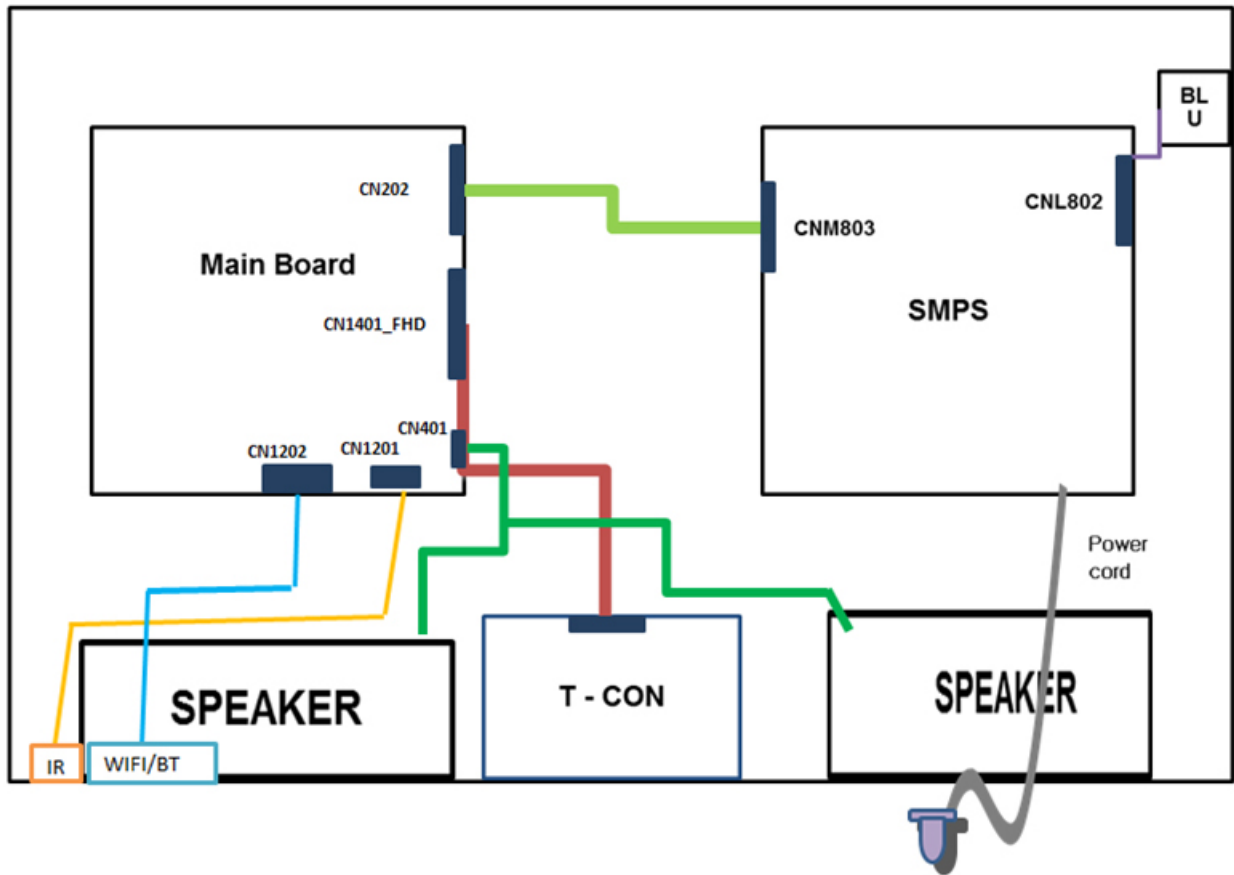
- This function may take a longer time if another network function is running concurrently.
- This function requires an Internet connection.
- If you agree to the Smart Hub terms and conditions, [Auto Update](#) is set to [On](#) automatically. If you do not want the TV's software to update itself automatically, set [Auto Update](#) to [Off](#).

## 5. Wiring Diagram

### 5-1. Layout

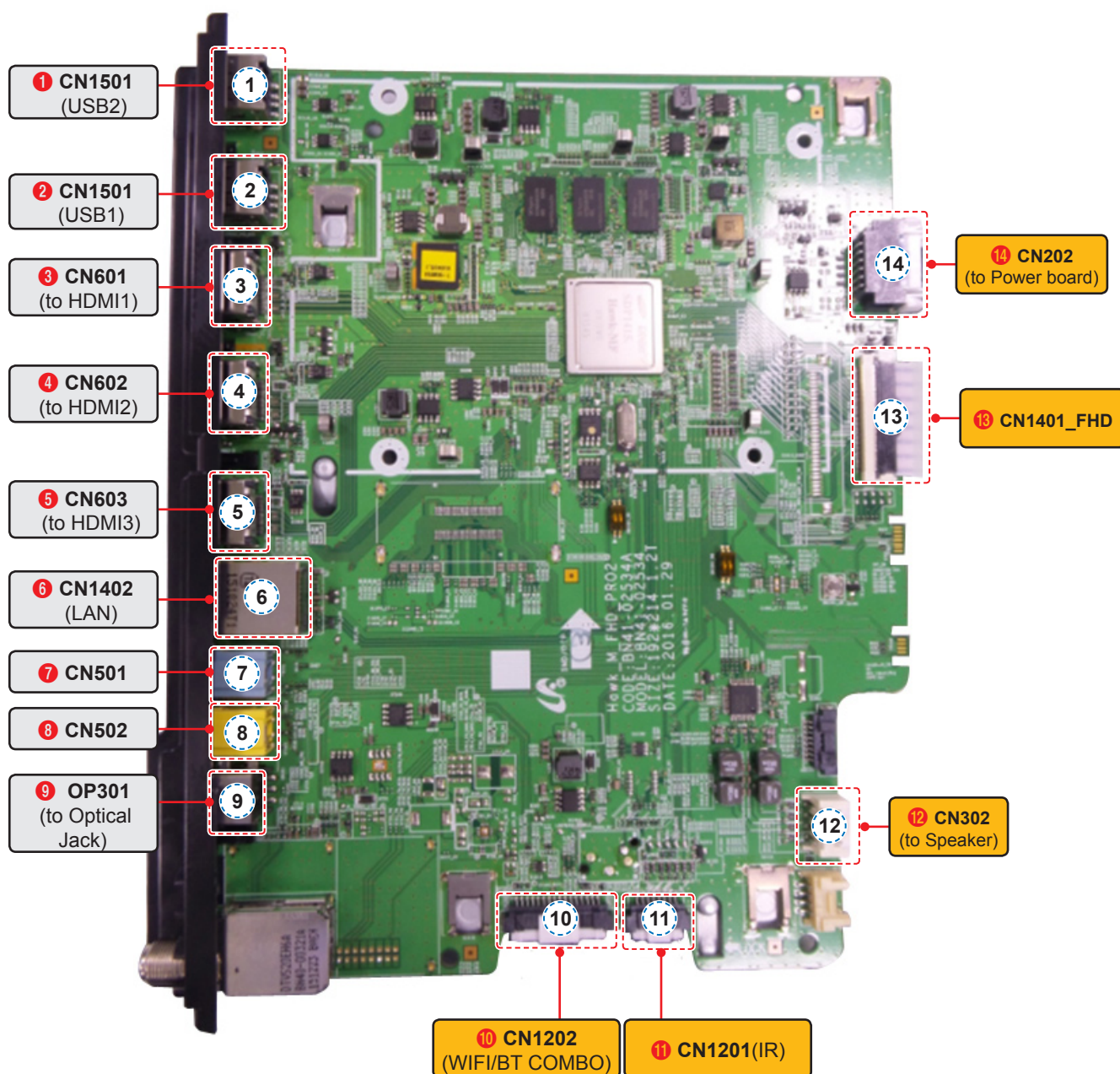


## 5-2. Wiring Diagram



## 5-3. Connector

### 5-3-1. Main Board



## 5. Wiring Diagram

### ■ Main Board Pin Map

| 1 CN1501(USB2) |             |   |         |
|----------------|-------------|---|---------|
| 1              | B5V_USB1_PW | 3 | USB2_DP |
| 2              | USB2_DM     | 4 | GND     |

| 2 CN1501(USB1) |             |   |         |
|----------------|-------------|---|---------|
| 1              | A5V_USB2_PW | 3 | USB1_DP |
| 2              | USB1_DM     | 4 | GND     |

| 3 CN601(to HDMI1) |            |    |                |
|-------------------|------------|----|----------------|
| 1                 | HDMI1_RX2+ | 10 | HDMI1_RXCLK+   |
| 2                 | GND        | 11 | GND            |
| 3                 | HDMI1_RX2- | 12 | HDMI1_RXCLK-   |
| 4                 | HDMI1_RX1+ | 13 | CEC            |
| 5                 | GND        | 14 | NC             |
| 6                 | HDMI1_RX1- | 15 | HDMI1_SCL_DDC  |
| 7                 | HDMI1_RX0+ | 16 | HDMI1_SDA_DDC  |
| 8                 | GND        | 17 | GND            |
| 9                 | HDMI1_RX0- | 18 | HDMI1_5V       |
|                   |            | 19 | HDMI1_HOT_PLUG |

| 4 CN602(to HDMI2) |            |    |                |
|-------------------|------------|----|----------------|
| 1                 | HDMI2_RX2+ | 10 | HDMI2_RXCLK+   |
| 2                 | GND        | 11 | GND            |
| 3                 | HDMI2_RX2- | 12 | HDMI2_RXCLK-   |
| 4                 | HDMI2_RX1+ | 13 | CEC            |
| 5                 | GND        | 14 | ARC2_SIGLE     |
| 6                 | HDMI2_RX1- | 15 | HDMI2_SCL_DDC  |
| 7                 | HDMI2_RX0+ | 16 | HDMI2_SDA_DDC  |
| 8                 | GND        | 17 | GND            |
| 9                 | HDMI2_RX0- | 18 | HDMI2_5V       |
|                   |            | 19 | HDMI2_HOT_PLUG |

| 5 CN603(to HDMI3) |            |    |                |
|-------------------|------------|----|----------------|
| 1                 | HDMI3_RX2+ | 10 | HDMI3_RXCLK+   |
| 2                 | GND        | 11 | GND            |
| 3                 | HDMI3_RX2- | 12 | HDMI3_RXCLK-   |
| 4                 | HDMI3_RX1+ | 13 | CEC            |
| 5                 | GND        | 14 | NC             |
| 6                 | HDMI3_RX1- | 15 | HDMI3_SCL_DDC  |
| 7                 | HDMI3_RX0+ | 16 | HDMI3_SDA_DDC  |
| 8                 | GND        | 17 | GND            |
| 9                 | HDMI3_RX0- | 18 | HDMI3_5V       |
|                   |            | 19 | HDMI3_HOT_PLUG |

| 6 CN1402_LAN |          |   |          |
|--------------|----------|---|----------|
| 1            | LAN_TXD+ | 5 | B2.5V    |
| 2            | B2.5V    | 6 | LAN_RXD- |
| 3            | LAN_TXD- | 7 | NC       |
| 4            | LAN_RXD+ | 8 | GND      |

| 7 CN501 |            |   |     |
|---------|------------|---|-----|
| 1       | GND        | 5 | PR  |
| 2       | COMP_PB    | 6 | GND |
| 3       | COMP_PR    | 7 | GND |
| 4       | IDENT_COMP |   |     |

| 8 CN502 |               |   |               |
|---------|---------------|---|---------------|
| 1       | GND           | 5 | TEST_SR       |
| 2       | COMP_Y_CVBS   | 6 | TEST_SL       |
| 3       | COMP_AV_SR_IN | 7 | COMP_AV_SL_IN |
| 4       | AV1_IDENT(Y)  |   |               |

| 9 OP301(to Optical Jack) |           |   |     |
|--------------------------|-----------|---|-----|
| 1                        | SPDIF_OUT | 3 | GND |
| 2                        | B5V_DC_PW |   |     |

| 10 CN1202(to Component & AV) |            |    |                  |
|------------------------------|------------|----|------------------|
| 1                            | BT_RESET   | 9  | WIFI_USB_SUSPEND |
| 2                            | POWER_DET  | 10 | GND              |
| 3                            | BT_WAKE    | 11 | WIFI+_USB        |
| 4                            | GND        | 12 | WIFI-_USB        |
| 5                            | BT-_USB_BT | 13 | GND              |
| 6                            | BT+_USB_BT | 14 | A5V_PW           |
| 7                            | GND        | 15 | WIFI_WOL         |
| 8                            | GND        | 16 | WIFI_NRESET      |

| 11 CN1201(to Function/IR) |          |   |            |
|---------------------------|----------|---|------------|
| 1                         | IR       | 5 | MSDA       |
| 2                         | GND      | 6 | KEY_INPUT1 |
| 3                         | A3.3V_PW | 7 | KEY_INPUT2 |
| 4                         | MSCL     | 8 | LED_STB    |

| 12 CN302(to Speaker) |    |   |    |
|----------------------|----|---|----|
| 1                    | R+ | 3 | L+ |
| 2                    | R- | 4 | L- |

| <b>13 CN1401_FHD</b> |              |    |              |
|----------------------|--------------|----|--------------|
| 1                    | NC           | 27 | EVEN_TX0-    |
| 2                    | GND          | 28 | GND          |
| 3                    | FRC_SDA      | 29 | ODD_TX4+     |
| 4                    | FRC_PWM1     | 30 | ODD_TX4-     |
| 5                    | FRC_SCL      | 31 | ODD_TX3+     |
| 6                    | FRC_PWM3     | 32 | ODD_TX3-     |
| 7                    | FRC_PWM2     | 33 | GND          |
| 8                    | TCON_SDA     | 34 | ODD_TXCLK+   |
| 9                    | PANEL_I2C_EN | 35 | ODD_TXCLK-   |
| 10                   | BT_SYNC      | 36 | GND          |
| 11                   | UPDATE_CHK   | 37 | ODD_TX2+     |
| 12                   | TCON_SCL     | 38 | ODD_TX2-     |
| 13                   | GND          | 39 | ODD_TX1+     |
| 14                   | EVEN_TX4+    | 40 | ODD_TX1-     |
| 15                   | EVEN_TX4-    | 41 | ODD_TX0+     |
| 16                   | EVEN_TX3+    | 42 | ODD_TX0-     |
| 17                   | EVEN_TX3-    | 43 | GND          |
| 18                   | GND          | 44 | GND          |
| 19                   | EVEN_TXCLK-  | 45 | GND          |
| 20                   | EVEN_TXCLK+  | 46 | FRC_PWM4     |
| 21                   | GND          | 47 | PANEL_13V_PW |
| 22                   | EVEN_TX2+    | 48 | PANEL_13V_PW |
| 23                   | EVEN_TX2-    | 49 | PANEL_13V_PW |
| 24                   | EVEN_TX1+    | 50 | PANEL_13V_PW |
| 25                   | EVEN_TX1-    | 51 | PANEL_13V_PW |
| 26                   | EVEN_TX0+    |    |              |

| <b>14 CN202(to Power board)</b> |              |    |                         |
|---------------------------------|--------------|----|-------------------------|
| 1                               | GND          | 7  | A13V_PW                 |
| 2                               | GND          | 8  | PWM_DIM                 |
| 3                               | A13V_PW      | 9  | A13V_PW                 |
| 4                               | GND          | 10 | OVD_LEVEL               |
| 5                               | A13V_PW      | 11 | SMPS_FET_FAIL<br>DETECT |
| 6                               | SW_POWER_OUT | 12 | OVD_ON_OFF              |