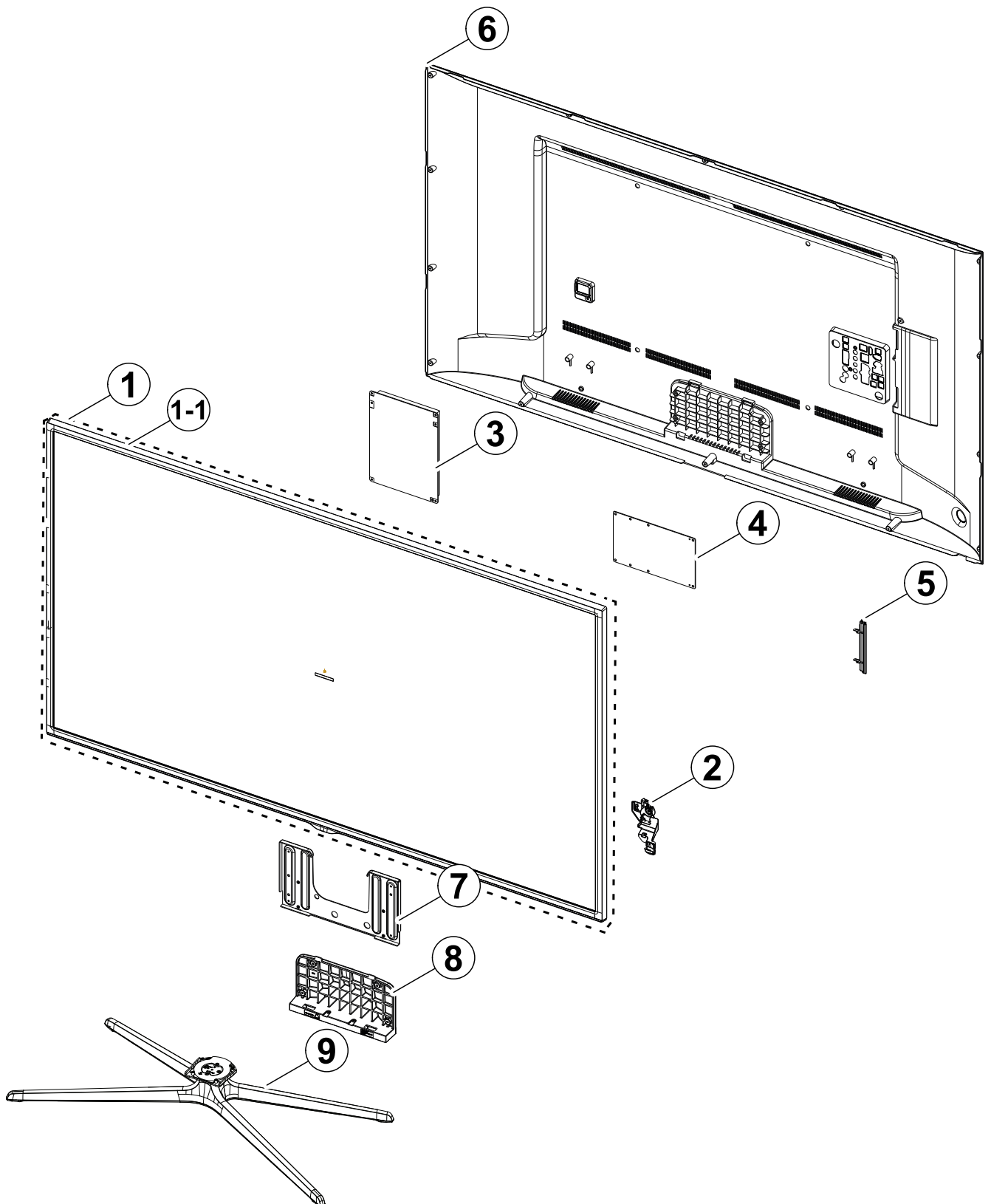


# 1. Exploded View & Part List

## Exploded View



**Parts List**

| No. | Lvl. | Loc.  | Material Code | Description & Specification                  | SNA | Qty. |
|-----|------|-------|---------------|----------------------------------------------|-----|------|
| 1   | 2    | PANEL | BN95-01724A   | PRODUCT LCD-INX;<br>v580HJ1,CY-HH058BGNV1H/V | SA  | 1    |
| 1-1 | 3    | TC01A | BN96-33358A   | ASSY CHASSIS TOP P; Y14 F-LED<br>58,PC+ABS+G | SA  | 1    |
| 2   | 2    | FB01A | BN96-30902V   | ASSY BOARD P-FUNCTION; UH5200,Function<br>As | SA  | 1    |
| 3   | 2    | P001A | BN44-00787A   | DC VSS-LED TV PD BD;<br>L58GFB_ESM,L58GFB_ES | SA  | 1    |
| 4   | 2    | M0014 | BN94-10476B   | ASSY PCB MAIN; LED TV                        | SA  | 1    |
| 5   | 3    |       | BN61-11154A   | HOLDER-SIDE AV; UH5203,HIPS,EO               | SNA | 1    |
| 6   | 2    | R001A | BN96-34022B   | ASSY COVER P-REAR; H5200<br>58",MASTER,PC+AB | SA  | 1    |
| 7   | 3    |       | BN61-07962B   | BRACKET-STNAD LINK; UE6030<br>55",SECC,T1.6, | SA  | 1    |
| 8   | 2    | SG01A | BN96-33524A   | ASSY GUIDE P-STAND; UH5200<br>58,PC+G/F20%,B | SA  | 1    |
| 9   | 2    | SB04A | BN96-30031E   | ASSY STAND P-BASE; UF6K<br>60,ABS+PC,BLACK   | SA  | 1    |

## 2. Electrical Parts List

| Level | Loc.  | Part Code   | Description & Specification               | Qty.  | SA/SNA |
|-------|-------|-------------|-------------------------------------------|-------|--------|
|       |       |             | <b>UE58J5200AWXXC (IS01)</b>              |       |        |
| 1     | R001A | BN90-06169D | ASSY COVER REAR;UH5203 58"                | 1     | SNA    |
| .2    | SCREW | 6001-003074 | SCREW-MACHINE;BH,+,M3,L6,ZPC(BLK),SWRCH1  | 4     | SA     |
| .2    | SCREW | 6003-001782 | SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR  | 16    | SA     |
| .2    | R001A | BN96-34022B | ASSY COVER P-REAR;H5200 58",MASTER,PC+AB  | 1     | SA     |
| ..3   | R001  | BN63-12619P | COVER-REAR;H5203, 58",ABS+PC,V0,BLK,MAST  | 1     | SNA    |
| ...4  |       | 0103-010488 | RESIN PC ABS;NH-1055 K21441,Black,BK0008  | 3750  | SNA    |
| ..3   | T0071 | BN64-02773A | INLAY-TERMINAL;H6203,PS,T0.4,W165.4,L147  | 1     | SNA    |
| ..3   |       | BN68-06629A | LABEL-TERMINAL,SIDE;H5203,PET,T0.125,W14  | 1     | SNA    |
| 1     |       | BN90-07095Q | ASSY W/I;J6K                              | 1     | SNA    |
| .2    |       | BN81-08159Z | PART SET-ELEC W/I;UF**,UH**,UG**,ELEC     | 1     | SNA    |
| .2    |       | BN81-11282N | A/S PART SET-MECH W/I;UJ5C,U58HF*         | 1     | SNA    |
| 1     | S001A | BN90-07340H | ASSY STAND;J5200/J5000                    | 1     | SNA    |
| .2    | SB04A | BN96-30031E | ASSY STAND P-BASE;UF6K 60,ABS+PC,BLACK    | 1     | SA     |
| ..3   | SCREW | 6002-001294 | SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)        | 4     | SA     |
| ..3   | SCREW | 6003-001425 | SCREW-TAPTYPE;BH,+,B,M4,L25,ZPC(BLK),SWR  | 4     | SNA    |
| ..3   | SCREW | 6003-001785 | SCREW-TAPTYPE;FH,+,B,M4,L8,ZPC(BLK),SWRC  | 4     | SA     |
| ..3   | SCREW | 6003-001832 | SCREW-TAPTYPE;FH,+,B,M4,L30,ZPC(BLK),SWR  | 1     | SNA    |
| ..3   |       | BN61-07165B | HOLDER-SWIVEL, TOP;60" QUAD STAND,ACETAL, | 1     | SNA    |
| ..3   |       | BN61-08737A | HOLDER-SWIVEL,BOTTOM;46-55 SLIM QUAD STA  | 1     | SNA    |
| ...4  |       | 0103-009825 | RESIN POM;TS-25A,Dark Gray,GY0199,HB      | 6     | SNA    |
| ..3   |       | BN61-08738A | HOLDER-STAND,NECK;46-55 SLIM QUAD STAND,  | 1     | SNA    |
| ..3   |       | BN61-08739A | BRACKET-STAND, TOP;46-55 SLIM QUAD STAND, | 1     | SNA    |
| ..3   |       | BN61-08740A | BRACKET-STAND,BOTTOM;46-55 SLIM QUAD STA  | 1     | SNA    |
| ..3   |       | BN61-09955A | BRACKET-SWIVEL, TOP;UF6400 60 QUAD,SPCC,  | 1     | SNA    |
| ..3   |       | BN61-09957A | BRACKET-SWIVEL,BOTTOM;UF6400 60 QUAD,SPC  | 1     | SNA    |
| ...4  |       | BN61-02428Q | STUD-PEM;M4,D7,L9.3,PNA,ZPC(SIL),SUM24L   | 4     | SNA    |
| ..3   | AS080 | BN63-05135E | SHEET-COVER;4-LEG,PE,T0.05,W60mm,Cr-plat  | 2     | SNA    |
| ..3   |       | BN63-10161A | COVER-STAND,BASE;46-55 SLIM QUAD STAND,A  | 1     | SNA    |
| ..3   |       | BN63-10199A | COVER-STAND TOP;46-55 SLIM QUAD STAND,AB  | 1     | SNA    |
| ...4  |       | 0103-005041 | RESIN PC ABS;FR3200TV,901408,BK0008,1.2m  | 180   | SNA    |
| ..3   |       | BN67-00385D | RUBBER-FOOT;RUBBER-FOOT,SILICONE,ROUND,1  | 4     | SNA    |
| .2    | SG01A | BN96-33524A | ASSY GUIDE P-STAND;UH5200 58,PC+G/F20%,B  | 1     | SA     |
| ..3   | SG03  | BN61-10894A | GUIDE-STAND;UH5200 58",PC+GF20%,BK0007,V  | 1     | SNA    |
| ...4  |       | 0103-007285 | RESIN PC;HF3200H,K21294,BK0007,V2         | 1.5mm | 300    |
| ...4  |       | BN68-00513D | LABEL-RESIN;resin,-,art paper,-,10,25,-,  | 1     | SNA    |
| ..3   |       | BN68-05603A | LABEL-E,PASS;ALL MODEL,ART PAPER 90G,60,  | 1     | SNA    |
| ..3   |       | BN69-08751A | WRAP VINYL-SHRINK;STAND,PLASTIC OTHERS,P  | 0     | SNA    |

| Level | Loc.  | Part Code   | Description & Specification                | Qty. | SA/SNA |
|-------|-------|-------------|--------------------------------------------|------|--------|
| ...3  |       | BN96-29120C | ASSY ACCESSORY-SCREW;6003-001782,8EA,LED   | 1    | SNA    |
| ...4  | SCREW | 6003-001782 | SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR   | 8    | SA     |
| ...4  |       | BN69-09241C | BAG SCREW;LDPE,0.05,70,90,TRP,Vinyl pack   | 1    | SNA    |
| 1     |       | BN91-12976A | ASSY LCM-AMLCD;BN95-01724A,CY-HH058BGNV1   | 1    | SNA    |
| .2    | PANEL | BN95-01724A | PRODUCT LCD-INX;v580HJ1,CY-HH058BGNV1H/V   | 1    | SA     |
| ...3  | SCREW | 6001-003075 | SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1   | 6    | SA     |
| ...3  |       | BN61-07962B | BRACKET-STNAD LINK;UE6030 55",SECC,T1.6,   | 1    | SA     |
| ...3  | M0131 | BN63-00520A | GASKET;APPOLO_PAL,Conductive Fabric,0.13   | 8    | SNA    |
| ...3  |       | BN68-05722A | LABEL-STICKER;ALL MODEL,POLYPROPYLENE,0.   | 1    | SNA    |
| ...3  |       | BN90-05987A | ASSY MISC-BLU;MEGA MODEL,CY-HH058BGNV1V    | 1    | SNA    |
| ...4  |       | BN02-00102B | TAPE-FILAMENT;#8917,0.15,25,50,WHITE       | 3    | SNA    |
| ...4  |       | BN02-00152E | TAPE ETC-SHEET FIXING;Y13 SF-LED,PET,0.0   | 4    | SNA    |
| ...4  |       | BN61-07891A | SUPPORT-PLATE;Y12 FULL LED,PC,V2,CLEAR     | 9    | SNA    |
| ...4  |       | BN61-10791A | LGP-DIFFUSESR PLATE;58inch Mega, Diffuse   | 1    | SNA    |
| ...4  |       | BN62-00635A | INSULATION-SOURCE PCB R;Y14 58",PC,0.25,   | 1    | SNA    |
| ...4  |       | BN62-00635B | INSULATION-SOURCE PCB L;Y14 58",PC,0.25,   | 1    | SNA    |
| ...4  |       | BN63-12638A | SHEET-COMPLEX;MEGA 58inch G230-54,PET,0.   | 1    | SNA    |
| ...4  |       | BN63-12640A | SHEET-REFLECTOR;MEGA 58inch UXJP175,PET,   | 1    | SNA    |
| ...4  |       | BN96-32771A | ASSY LED BAR P-LED BAR;58inch Left,Direc   | 6    | SNA    |
| ...4  |       | BN96-32772A | ASSY LED BAR P-LED BAR;58inch Right,Dire   | 6    | SNA    |
| ...4  |       | BN96-33354A | ASSY CHASSIS BOTTOM P;Y14 F-LED 58,MEGA,   | 1    | SNA    |
| ....5 |       | AK63-00675A | GASKET;BD-C7500,Conductive Fabric,2mm,5m   | 4    | SNA    |
| ....5 |       | BN02-00040C | TAPE DOUBLE FACE-D-PLATE;F-LED ALL,MKT50   | 2    | SNA    |
| ....5 |       | BN02-00074D | TAPE PET;58H5200,PET,T0.05,W40,L40,BLK,3   | 4    | SNA    |
| ....5 |       | BN02-00102B | TAPE-FILAMENT;#8917,0.15,25,50,WHITE       | 1    | SNA    |
| ....5 |       | BN02-00134E | TAPE ETC-SHEET FIXING;SFLED 32/40/46/55/   | 6    | SNA    |
| ....5 |       | BN02-00324A | TAPE-METAL FOIL;Y14 4K,T0.085,W25,NTR,3M   | 0    | SNA    |
| ....5 | EC13  | BN39-01910A | LEAD CONNECTOR;58inch Mega,Lead Connecto   | 1    | SNA    |
| ....5 |       | BN61-11027A | HOLDER-SOURCE PCB;H4.2K 58",NYLON66,1.8T   | 4    | SNA    |
| ....5 |       | BN62-00501M | INSULATION-PD BOARD 58;Y14 H4.2K 58,PC,0   | 1    | SNA    |
| ....5 | CC02  | BN64-02743A | CHASSIS-BOTTOM;Y14 F-LED 58",EGI-SECC AG   | 1    | SNA    |
| ....5 |       | BN74-00053J | TAPE PAPER-PROTECTION;-3M2307,PAPER,-,0    | 1    | SNA    |
| ...4  |       | BN96-33355A | ASSY FRAME P-MOLD MIDDLE U;Y14 F-LED 58,   | 1    | SNA    |
| ....5 |       | BN61-10803A | FRAME-MOLD MIDDLE U;Y14 F-LED 58",PC+G/F   | 1    | SNA    |
| ...4  |       | BN96-33356A | ASSY FRAME P-MOLD MIDDLE D;Y14 F-LED 58,   | 1    | SNA    |
| ....5 |       | BN60-00744A | SPACER-RUBBER;Y13 F-LED SLIM,SH-0140U+AT   | 1    | SNA    |
| ....5 |       | BN60-00999E | SPACER-PANEL(UD);14 ENTRY MODEL 58",SI,6   | 2    | SNA    |
| ....5 |       | BN61-10804A | FRAME-MOLD MIDDLE D;Y14 F-LED 58",PC+G/F   | 1    | SNA    |
| ...4  |       | BN96-33357A | ASSY FRAME P-MOLD MIDDLE LR;Y14 F-LED 58   | 2    | SNA    |
| ....5 |       | BN60-00999F | SPACER-PANEL(LR);14 ENTRY MODEL 58" & quot | 2    | SNA    |

| Level | Loc.  | Part Code   | Description & Specification              | Qty. | SA/SNA |
|-------|-------|-------------|------------------------------------------|------|--------|
| ...5  |       | BN61-10805A | FRAME-MOLD MIDDLE LR;Y14 F-LED 58",PC+G/ | 2    | SNA    |
| ..3   | FL06  | BN96-30782D | ASSY CABLE P-FFC;H7000,FFC,NH,68mm 1,60  | 2    | SNA    |
| ..3   |       | BN96-32743A | ASSY OPEN CELL;V580HJ1-PD6,CY-HH058BGNV1 | 1    | SNA    |
| ...4  |       | BN81-10743A | A/S-A/S-IC DRIVER SOURCE;INX 58 FHD 60Hz | 1    | SNA    |
| ...4  |       | BN81-10744A | A/S-A/S-IC DRIVER GATE;INX 58 FHD 60Hz,6 | 1    | SNA    |
| ...4  |       | BN81-10745A | A/S-A/S-ASSY PCB-SOURCE (XR);INX 58 FHD  | 1    | SNA    |
| ...4  |       | BN81-10746A | A/S-A/S-ASSY PCB-SOURCE (XL);INX 58 FHD  | 1    | SNA    |
| ...4  |       | BN81-10747A | A/S-A/S-POLARIZER-C/F;INX 58 FHD 60Hz,41 | 1    | SNA    |
| ...4  |       | BN81-10748A | A/S-A/S-POLARIZER-TFT;INX 58 FHD 60Hz,41 | 1    | SNA    |
| ..3   | TCON  | BN96-32745A | ASSY T CON P;V580HJ1-PE6,V580HJ1-PE6,10b | 1    | SA     |
| ..3   | TC01A | BN96-33358A | ASSY CHASSIS TOP P;Y14 F-LED 58,PC+ABS+G | 1    | SA     |
| ...4  |       | BN60-00667K | SPACER-GASKET;Y13 SF-LED,SIL22,GRY,T0.2  | 3    | SNA    |
| ...4  |       | BN60-00930Z | SPACER-TOP(UD);Y14 VNB 58",PET,L1280,GOL | 2    | SNA    |
| ...4  |       | BN60-01010A | SPACER-CORNER;H4203,GASKET*,9mm,BLK,0.2T | 4    | SNA    |
| ...4  |       | BN60-01071A | SPACER-TOP(LR);Y14 VNB 58",PET,L727,GOLD | 2    | SNA    |
| ...4  |       | BN63-11875Q | SHEET-COVER;Y14 SF-LED,POLY*,0.068,W37,R | 1    | SNA    |
| ...4  |       | BN63-11875S | SHEET-COVER;Y14 SF-LED,POLYESTER,0.068,W | 3    | SNA    |
| ...4  | AC157 | BN64-02744A | CHASSIS-TOP;Y14 F-LED 58",PC+ABS+G/F15%, | 1    | SNA    |
| 1     |       | BN91-13443B | ASSY SHIELD;UH5200 58"                   | 1    | SNA    |
| .2    | SCREW | 6001-003081 | SCREW-MACHINE;PWH,+,M3,L5,ZPC(WHT),SWRCH | 13   | SA     |
| .2    |       | BN02-00102B | TAPE-FILAMENT;#8917,0.15,25,50,WHITE     | 0    | SNA    |
| .2    | EC13  | BN39-01765A | LEAD CONNECTOR;UE46F5300,Flat Connector  | 1    | SA     |
| .2    | EC13  | BN39-01889K | LEAD CONNECTOR;UE50H6300,Flat Connector, | 1    | SA     |
| .2    | P001A | BN44-00787A | DC VSS-LED TV PD BD;L58GFB_ESM,L58GFB_ES | 1    | SA     |
| .2    | CB20  | BN61-07953A | BRACKET-WALL;UE5000 46",EGI-SECC PL,T1.2 | 4    | SA     |
| .2    | M0131 | BN63-00520A | GASKET;APPOLO_PAL,Conductive Fabric,0.13 | 1    | SNA    |
| .2    | FB01A | BN96-30902V | ASSY BOARD P-FUNCTION;UH5200,Function As | 1    | SA     |
| .2    | SPK   | BN96-32113E | ASSY SPEAKER P-H5203 58";6ohm,10W,H5203  | 1    | SA     |
| .2    | FL06  | BN96-33236H | ASSY CABLE P-FFC;58H5203,FFC,NH,500mm,51 | 1    | SA     |
| 1     | M0017 | BN91-16918K | ASSY CHASSIS;LED TV                      | 1    | SNA    |
| .2    | M0014 | BN94-10476B | ASSY PCB MAIN;LED TV                     | 1    | SA     |
| ..3   |       | BN61-11154A | HOLDER-SIDE AV;UH5203,HIPS,EO            | 1    | SNA    |
| ...4  |       | 0103-004628 | RESIN HIPS;HF-1690H,K2901,BK0020,1.5mm H | 13   | SNA    |
| ..3   |       | BN62-00637A | INSULATION;H6390_Tizen,PET,0.1,10,10,BLK | 1    | SNA    |
| ..3   | AH020 | BN62-00659A | HEAT SINK;UN55H6203AFXZA,A6063,BLACK     | 1    | SNA    |
| ..3   |       | BN62-00670A | INSULATION;H5203,PET,0.1,54,54,BLK       | 1    | SNA    |
| ..3   |       | BN63-10091A | GASKET;SB750H,PUR FOAM,10mm,10mm,5mm,Gra | 2    | SNA    |
| ..3   |       | BN97-08893Y | ASSY SMD;UH5F                            | 1    | SNA    |
| ...4  |       | 0202-001899 | SOLDER-CREAM;M705-GRN360-K2-VT,20-38um,S | 3    | SNA    |
| ...4  | DS01A | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1    | SA     |

| Level | Loc. | Part Code   | Description & Specification              | Qty. | SA/SNA |
|-------|------|-------------|------------------------------------------|------|--------|
| ...4  |      | 0403-001783 | DIODE-ZENER;BZB84-C6V2,5.8/6.6V,300mW,SO | 4    | SNA    |
| ...4  |      | 0404-001404 | DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23, | 2    | SA     |
| ...4  |      | 0406-001200 | DIODE-TVS;RCLAMP0504F,6/-V,150W,SC-70    | 2    | SA     |
| ...4  |      | 0406-001628 | DIODE-TVS;AOZ8804ADI,6/-V,150W,SLP2510   | 1    | SA     |
| ...4  |      | 0406-001635 | DIODE-TVS;SMF5.0A,6.4V, 6.7V, 7V,200W,SM | 5    | SA     |
| ...4  |      | 0501-000279 | TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT- | 3    | SA     |
| ...4  |      | 0501-000445 | TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT | 4    | SC     |
| ...4  |      | 0505-002560 | FET-SILICON;AO6415,P,-20V,-3.3A,0.15ohm, | 1    | SA     |
| ...4  |      | 0505-002598 | FET-SILICON;AP2317GN,P,-20V,-4.2A,0.052o | 1    | SA     |
| ...4  |      | 0505-002893 | FET-SILICON;AO4801AS,P,-30V,-5A,2W,SOIC- | 1    | SA     |
| ...4  |      | 0505-003397 | FET-SILICON;2N7002K,N,60V,380mA,1.19ohm, | 5    | SA     |
| ...4  |      | 0801-002780 | IC-CMOS LOGIC;74LVC1G17,SCHMITT-TRIGGER  | 2    | SA     |
| ...4  |      | 0801-003330 | IC-CMOS LOGIC;Octal buffer,DQFN,20P,4.5x | 1    | SA     |
| ...4  |      | 1001-001860 | IC-ANALOG SWITCH;NX5L2750CGU,QFN,10P,1.4 | 1    | SNA    |
| ...4  |      | 1103-001487 | IC-EEPROM;AT24C256C-SSHL-T,256Kbit,32Kx8 | 1    | SA     |
| ...4  |      | 1105-002527 | IC-DDR3 SDRAM;K4B2G1646Q-BCK0,DDR3,2Gbit | 1    | SA     |
| ...4  |      | 1105-002529 | IC-DDR3 SDRAM;K4B4G1646D-BCK0,DDR3 1600, | 1    | SA     |
| ...4  |      | 1201-003183 | IC-AUDIO AMP;DRV612,HTSSOP,14P,5x4.4mm,D | 1    | SA     |
| ...4  |      | 1201-003690 | IC-AUDIO AMP;TAS5747PHPR,QFP,48P,DUAL,PL | 1    | SA     |
| ...4  |      | 1203-004363 | IC-VOL. DETECTOR;SOT-23,3Z30,2.9x1.6mm,P | 1    | SA     |
| ...4  |      | 1203-006017 | IC-VOL. DETECTOR;RT9824GJ8,TSOT23,8P,2.9 | 1    | SA     |
| ...4  |      | 1203-006130 | IC-POSIFIXED REG.;S-1172B25-U5T1G,SOT-8  | 1    | SA     |
| ...4  |      | 1203-007238 | IC-PWM CONTROLLER;TPS54427,DDA,8P,4.8x3. | 1    | SNA    |
| ...4  |      | 1203-007242 | IC-POSIAJUST REG.;G2992BP11U,SOP-8,8P,   | 1    | SA     |
| ...4  |      | 1203-008104 | IC-POSIFIXED REG.;S-13A1D18-E800,HSOP,8  | 2    | SNA    |
| ...4  |      | 1203-008105 | IC-POSIFIXED REG.;S-13A1D33-E800,HSOP,8  | 1    | SNA    |
| ...4  |      | 1203-008118 | IC-DC/DC CONVERTER;AOZ3013PI,SO-8,8P,4.9 | 3    | SA     |
| ...4  |      | 1203-008183 | IC-DC/DC CONVERTER;AOZ3015PI-1,EPAD SO-8 | 1    | SA     |
| ...4  |      | 1204-003558 | IC-VIDEO PROCESS;SENK15,HS-TFBGA,626P,26 | 1    | SA     |
| ...4  |      | 1205-004447 | IC-SWITCH;TPS2051CDBVR,SOT23-5,5P,3x1.65 | 2    | SA     |
| ...4  |      | 1205-004983 | IC-SWITCH;BD82032FVJ,TSSOP-B8J,8P,3.0x4. | 1    | SA     |
| ...4  |      | 1405-001271 | VARISTOR;35V,20Vdc,5A,1.0x0.5mm,TP,100V, | 25   | SA     |
| ...4  |      | 2007-000138 | R-CHIP;100ohm,5%,1/16W,TP,1005           | 28   | SA     |
| ...4  |      | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP,1005            | 9    | SNA    |
| ...4  |      | 2007-000141 | R-CHIP;2.2Kohm,5%,1/16W,TP,1005          | 6    | SNA    |
| ...4  |      | 2007-000142 | R-CHIP;2.7Kohm,5%,1/16W,TP,1005          | 1    | SNA    |
| ...4  |      | 2007-000143 | R-CHIP;4.7Kohm,5%,1/16W,TP,1005          | 25   | SNA    |
| ...4  |      | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP,1005           | 24   | SA     |
| ...4  |      | 2007-000153 | R-CHIP;22Kohm,5%,1/16W,TP,1005           | 8    | SNA    |
| ...4  |      | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP,1005           | 15   | SNA    |

| Level | Loc. | Part Code   | Description & Specification          | Qty. | SA/SNA |
|-------|------|-------------|--------------------------------------|------|--------|
| ...4  |      | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP,1005      | 1    | SNA    |
| ...4  |      | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP,1005         | 10   | SNA    |
| ...4  |      | 2007-000172 | R-CHIP;10ohm,5%,1/16W,TP,1005        | 3    | SNA    |
| ...4  |      | 2007-000173 | R-CHIP;22ohm,5%,1/16W,TP,1005        | 21   | SNA    |
| ...4  |      | 2007-000174 | R-CHIP;47ohm,5%,1/16W,TP,1005        | 2    | SNA    |
| ...4  |      | 2007-000256 | R-CHIP;1.6Kohm,1%,1/10W,TP,1608      | 3    | SA     |
| ...4  |      | 2007-000265 | R-CHIP;1.8Kohm,1%,1/10W,TP,1608      | 1    | SA     |
| ...4  |      | 2007-000583 | R-CHIP;22Kohm,1%,1/10W,TP,1608       | 3    | SA     |
| ...4  |      | 2007-000691 | R-CHIP;3.3Mohm,5%,1/10W,TP,1608      | 1    | SA     |
| ...4  |      | 2007-000726 | R-CHIP;300ohm,1%,1/10W,TP,1608       | 2    | SA     |
| ...4  |      | 2007-000775 | R-CHIP;33Kohm,5%,1/16W,TP,1005       | 2    | SNA    |
| ...4  |      | 2007-000803 | R-CHIP;36Kohm,1%,1/10W,TP,1608       | 2    | SA     |
| ...4  |      | 2007-000932 | R-CHIP;470ohm,5%,1/16W,TP,1005       | 8    | SNA    |
| ...4  |      | 2007-001125 | R-CHIP;68Kohm,1%,1/10W,TP,1608       | 1    | SA     |
| ...4  |      | 2007-001168 | R-CHIP;75ohm,5%,1/4W,TP,3216         | 1    | 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        | 2    | SNA    |
| ...4  |      | 2007-001298 | R-CHIP;51ohm,5%,1/16W,TP,1005        | 2    | SNA    |
| ...4  |      | 2007-002970 | R-CHIP;56ohm,5%,1/16W,TP,1005        | 2    | SA     |
| ...4  |      | 2007-003015 | R-CHIP;2.2ohm,5%,1/16W,TP,1005       | 8    | SNA    |
| ...4  |      | 2007-003022 | R-CHIP;62ohm,5%,1/16W,TP,1005        | 26   | SNA    |
| ...4  |      | 2007-007001 | R-CHIP;3.9Kohm,5%,1/16W,TP,1005      | 1    | SA     |
| ...4  |      | 2007-007095 | R-CHIP;390ohm,5%,1/16W,TP,1005       | 1    | SA     |
| ...4  |      | 2007-007107 | R-CHIP;100Kohm,1%,1/16W,TP,1005      | 6    | SNA    |
| ...4  |      | 2007-007136 | R-CHIP;4.7Kohm,1%,1/16W,TP,1005      | 18   | SNA    |
| ...4  |      | 2007-007142 | R-CHIP;10Kohm,1%,1/16W,TP,1005       | 20   | SNA    |
| ...4  |      | 2007-007156 | R-CHIP;1ohm,5%,1/16W,TP,1005         | 2    | SNA    |
| ...4  |      | 2007-007306 | R-CHIP;100ohm,1%,1/16W,TP,1005       | 6    | SNA    |
| ...4  |      | 2007-007309 | R-CHIP;12Kohm,1%,1/16W,TP,1005,0.35T | 3    | SA     |
| ...4  |      | 2007-007311 | R-CHIP;22Kohm,1%,1/16W,TP,1005       | 1    | SA     |
| ...4  |      | 2007-007312 | R-CHIP;20Kohm,1%,1/16W,TP,1005       | 1    | SA     |
| ...4  |      | 2007-007318 | R-CHIP;1Kohm,1%,1/16W,TP,1005        | 16   | SNA    |
| ...4  |      | 2007-007470 | R-CHIP;7.5Kohm,1%,1/16W,TP,1005      | 1    | SNA    |
| ...4  |      | 2007-007517 | R-CHIP;240ohm,1%,1/16W,TP,1005       | 2    | SNA    |
| ...4  |      | 2007-007538 | R-CHIP;56Kohm,1%,1/16W,TP,1005       | 1    | SA     |
| ...4  |      | 2007-007766 | R-CHIP;2Kohm,1%,1/16W,TP,1005        | 1    | SNA    |
| ...4  |      | 2007-007942 | R-CHIP;1Mohm,1%,1/16W,TP,1005        | 1    | SNA    |
| ...4  |      | 2007-008015 | R-CHIP;75ohm,1%,1/16W,TP,1005        | 19   | SNA    |
| ...4  |      | 2007-008117 | R-CHIP;2.7Kohm,1%,1/16W,TP,1005      | 1    | SA     |
| ...4  |      | 2007-008275 | R-CHIP;30Kohm,1%,1/16W,TP,1005       | 2    | SNA    |

| Level | Loc.  | Part Code   | Description & Specification              | Qty. | SA/SNA |
|-------|-------|-------------|------------------------------------------|------|--------|
| ...4  |       | 2007-008294 | R-CHIP;33ohm,1%,1/16W,TP,1005            | 5    | SA     |
| ...4  |       | 2007-008298 | R-CHIP;49.9ohm,1%,1/16W,TP,1005          | 4    | SA     |
| ...4  |       | 2007-008332 | R-CHIP;11.5Kohm,1%,1/16W,TP,1005         | 1    | SA     |
| ...4  |       | 2007-008473 | R-CHIP;59Kohm,1%,1/10W,TP,1608           | 1    | SA     |
| ...4  |       | 2007-008779 | R-CHIP;0ohm,1%,1/16W,TP,1005             | 4    | SA     |
| ...4  |       | 2011-001261 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,2. | 2    | SA     |
| ...4  |       | 2011-001262 | R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2. | 1    | SA     |
| ...4  |       | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,2 | 2    | SA     |
| ...4  |       | 2011-001402 | R-NETWORK;56ohm,5%,1/16W,L,CHIP,8P,TP,2. | 8    | SA     |
| ...4  |       | 2011-001449 | R-NETWORK;22ohm,5%,1/16W,L,4Points,TP,10 | 3    | SA     |
| ...4  |       | 2011-001506 | R-NETWORK;10Kohm,5%,1/16W,L,CHIP,4P,TP,1 | 4    | SNA    |
| ...4  |       | 2011-001527 | R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,4P,TP, | 3    | SNA    |
| ...4  |       | 2011-001587 | R-NETWORK;100ohm,5%,1/16W,L,CHIP-V,4P,TP | 1    | SNA    |
| ...4  | AD480 | 2203-000233 | C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005      | 8    | SA     |
| ...4  | AD480 | 2203-000278 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005  | 3    | SA     |
| ...4  | AD480 | 2203-000330 | C-CER,CHIP;0.012nF,5%,50V,C0G,TP,1005    | 2    | SA     |
| ...4  | AD480 | 2203-000359 | C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5 | 1    | SNA    |
| ...4  | AD480 | 2203-000438 | C-CER,CHIP;1nF,10%,50V,X7R,TP,1005       | 16   | SA     |
| ...4  | AD480 | 2203-000489 | C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005     | 4    | SA     |
| ...4  | AD480 | 2203-000575 | C-CER,CHIP;220nF,10%,25V,X7R,TP,2012     | 6    | SNA    |
| ...4  | AD480 | 2203-000585 | C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005    | 1    | SA     |
| ...4  | AD480 | 2203-000627 | C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1005    | 3    | SNA    |
| ...4  | AD480 | 2203-000679 | C-CER,CHIP;0.027nF,5%,50V,C0G,TP,1005    | 2    | SA     |
| ...4  | AD480 | 2203-000714 | C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005     | 7    | SA     |
| ...4  | AD480 | 2203-000812 | C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005    | 5    | SA     |
| ...4  | AD480 | 2203-000940 | C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005    | 4    | SA     |
| ...4  | AD480 | 2203-002285 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1005      | 19   | SNA    |
| ...4  | AD480 | 2203-002711 | C-CER,CHIP;100nF,10%,25V,X7R,TP,1608     | 6    | SA     |
| ...4  | AD480 | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1608     | 6    | SNA    |
| ...4  | AD480 | 2203-005344 | C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,0.5T | 1    | SNA    |
| ...4  | AD480 | 2203-005659 | C-CER,CHIP;0.18nF,5%,50V,NP0,TP,1005     | 1    | SNA    |
| ...4  | AD480 | 2203-005968 | C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5 | 3    | SNA    |
| ...4  | AD480 | 2203-006048 | C-CER,CHIP;100nF,10%,10V,X7R,TP,1005     | 103  | SA     |
| ...4  | AD480 | 2203-006126 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1005      | 17   | SNA    |
| ...4  | AD480 | 2203-006158 | C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,0.5 | 20   | SNA    |
| ...4  | AD480 | 2203-006324 | C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608    | 7    | SA     |
| ...4  | AD480 | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0. | 2    | SA     |
| ...4  | AD480 | 2203-006361 | C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012   | 21   | SC     |
| ...4  | AD480 | 2203-006399 | C-CER,CHIP;1000nF,10%,6.3V,X5R,TP,1005   | 1    | SA     |
| ...4  | AD480 | 2203-006474 | C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,2012  | 34   | SA     |

| Level | Loc.        | Part Code   | Description & Specification               | Qty. | SA/SNA |
|-------|-------------|-------------|-------------------------------------------|------|--------|
| ...4  | AD480       | 2203-006562 | C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005     | 18   | SNA    |
| ...4  | AD480       | 2203-006824 | C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608     | 5    | SNA    |
| ...4  | AD480       | 2203-006838 | C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005    | 1    | SA     |
| ...4  | AD480       | 2203-006841 | C-CER,CHIP;1000nF,10%,16V,X5R,TP,1005     | 4    | SNA    |
| ...4  | AD480       | 2203-006842 | C-CER,CHIP;0.47nF,5%,50V,C0G,TP,1005      | 2    | SNA    |
| ...4  | AD480       | 2203-006890 | C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608   | 27   | SNA    |
| ...4  | AD480       | 2203-006992 | C-CER,CHIP;0.33nF,5%,50V,C0G,TP,1005      | 8    | SNA    |
| ...4  | AD480       | 2203-007176 | C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1  | 5    | SNA    |
| ...4  | AD480       | 2203-007269 | C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2  | 8    | SA     |
| ...4  | AD480       | 2203-007270 | C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0  | 4    | SNA    |
| ...4  | AD480       | 2203-007513 | C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0  | 2    | SA     |
| ...4  | AD480       | 2203-007544 | C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,0.5  | 9    | SA     |
| ...4  |             | 2409-001213 | C-ORGANIC,SMD;150uF,20%,6.3V,-,TP,3.5x2.  | 2    | SNA    |
| ...4  |             | 2703-000158 | INDUCTOR-SMD;1uH,10%,2012,.40ohm,50mA,45, | 4    | SA     |
| ...4  |             | 2703-000213 | INDUCTOR-SMD;470nH,10%,1608,1.35Ohm,35mA  | 1    | SA     |
| ...4  |             | 2703-001209 | INDUCTOR-SMD;1.2uH,10%,1608,.80ohm,25mA,3 | 3    | SA     |
| ...4  |             | 2703-001938 | INDUCTOR-SMD;56nH,5%,1005,1.5Ohm,200mA,1  | 2    | SA     |
| ...4  |             | 2703-002332 | INDUCTOR-SMD;330nH,5%,1608,3Ohm,100mA,32  | 1    | SA     |
| ...4  |             | 2703-003713 | INDUCTOR-SMD;1.5uH,20%,7366,0.015ohm,700  | 2    | SA     |
| ...4  |             | 2703-003790 | INDUCTOR-SMD;4.7uH,20%,8080,0.025ohm,450  | 2    | SA     |
| ...4  |             | 2703-003930 | INDUCTOR-SMD;4.7uH,20%,5050,0.072Ohm,245  | 4    | SA     |
| ...4  |             | 2703-004462 | INDUCTOR-SMD;3.3uH,20%,10x10x8mm,0.0082O  | 1    | SA     |
| ...4  |             | 2801-003773 | CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50oh  | 1    | SA     |
| ...4  |             | 3301-000314 | BEAD-SMD;120ohm,1608,TP,120ohm/100MHz     | 6    | SNA    |
| ...4  |             | 3301-001364 | BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz,  | 2    | SNA    |
| ...4  |             | 3301-002039 | BEAD-SMD;26ohm,1608,TP                    | 37   | SA     |
| ...4  |             | 3601-001374 | FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL  | 2    | SA     |
| ...4  |             | 3701-001856 | CONNECTOR-HDMI;19P,FEMALE,AU,0.5mm,BLK,S  | 2    | SA     |
| ...4  |             | 3707-001106 | CONNECTOR-OPTICAL;STRAIGHT W/L,SPDIF      | 1    | SA     |
| ...4  |             | 3708-003073 | CONNECTOR-FPC/FFC/PIC;51P,0.5mm,SMD,AU,N  | 1    | SA     |
| ...4  |             | 3709-001712 | CONNECTOR-CARD SLOT;68P,1.27mm,ANGLE,AU,  | 1    | SA     |
| ...4  | EH01        | 3711-008131 | HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN  | 1    | SA     |
| ...4  | EH01        | 3711-008453 | HEADER-BOARD TO CABLE;BOX,18P,2R,2mm,ANG  | 1    | SA     |
| ...4  | EH01        | 3711-008558 | HEADER-BOARD TO CABLE;BOX,26P,2R,1.25mm,  | 1    | SA     |
| ...4  |             | 3722-003229 | JACK-MODULAR;8P/8C W/L,Y,STRAIGHT,N,Au,1  | 1    | SA     |
| ...4  |             | 3722-003248 | JACK-USB;4P/1C(W/L),NI/PD/AU/SN,BLK,STRA  | 2    | SA     |
| ...4  | JACK<br>PIN | 3722-003546 | JACK-PIN;5P+Screw hole,NI+SN,G,Y/BLU/RED  | 1    | SA     |
| ...4  |             | 3722-003655 | JACK-SCART;21P,SN,BLK                     | 1    | SA     |
| ...4  |             | 3722-003667 | JACK-PHONE;1P/7C,SN/NI,BLK,STRAIGHT,3.6P  | 2    | SA     |
| ...4  | ET01        | BN40-00281A | TUNER;DTOS40EIL276A,DTOS40EIL276A,DVB-TC  | 1    | SA     |

## Exploded Views and Parts List

| Level | Loc.   | Part Code   | Description & Specification              | Qty. | SA/SNA |
|-------|--------|-------------|------------------------------------------|------|--------|
| ...4  |        | BN41-02272A | PCB MAIN;H5203,FR-4,4,A,1.2,192*158,1    | 1    | SNA    |
| ...4  |        | BN97-08451A | ASSY MICOM-IRB;GOLF-P,U8FB,MAXQ636V,IC24 | 1    | SNA    |
| ....5 |        | BN13-00067A | IC-PLD;MAXQ636V-2591+T,9,1.64 to 3.6,-0  | 1    | SNA    |
| ...4  |        | BN97-08852A | ASSY MICOM-MAIN;T-NT14MDEUC-XXXX,U8MB,KL | 1    | SNA    |
| ....5 |        | 1107-002287 | IC-EMMC;KLM4G1FEAC-C031,4GByte,BGA,153P, | 1    | SA     |
| ...4  |        | BN97-08853A | ASSY MICOM-SUB;SUBMICOM,U8MB,W25Q40CLSSI | 1    | SNA    |
| ....5 |        | 1107-002226 | IC-NOR FLASH;W25Q40CLSSIP,4Mbit,SOIC,8P, | 1    | SA     |
| ...3  |        | BN97-09495A | ASSY DRM-KEY;HU7*,NT14U,EU               | 1    | SNA    |
| ...4  |        | BN46-00109H | KEY CODE-CERTIFI;MAC,TV/AV,General       | 1    | SNA    |
| ...4  |        | BN46-00110P | KEY CODE-CERTIFI;MIRACAST(HDCP2.2), TV   | 1    | SNA    |
| ...4  |        | BN46-00328B | KEY CODE-CERTIFI;CI+,TV,NT14, EU         | 1    | SNA    |
| 1     |        | BN92-17301R | ASSY LABEL POP;J5100/J5300,UJ5D          | 1    | SNA    |
| .2    |        | BN68-07197A | LABEL POP-02;J6200, J5273, J5203, J4500, | 1    | SNA    |
| 1     | ACCE1  | BN92-17403A | ASSY ACCESSORY;LED J6K UHD               | 1    | SNA    |
| .2    |        | BN68-07519B | LABEL-ENERGY;EU,Jordan all(A++),WW,PP,0. | 1    | SNA    |
| .2    |        | BN96-37427A | ASSY ACCESSORY MANUAL;JU6S,EUROPE.CIS    | 1    | SNA    |
| ...3  |        | 6902-001964 | BAG PE;LDPE,BIOBASED,T0.03,W200,L300,TRP | 1    | SNA    |
| ...3  |        | BN68-00514K | MANUAL FLYER-07,WARRANTY CARD;comm,Samsu | 1    | SNA    |
| ...3  |        | BN68-04972E | LEAFLET-06,REGULATORY GUIDE;ALL,SAMSUNG, | 1    | SNA    |
| ...3  |        | BN68-07351G | LEAFLET-06,FICHE_15TV(5SERIES);ALL,W/P*  | 1    | SNA    |
| ...3  |        | BN68-07429F | LEAFLET-01,QSG;Common,XC,W/P*            | 1    | SNA    |
| ...3  |        | BN68-07681A | MANUAL USERS;UJ5200,XC,W/P               | 1    | SNA    |
| .2    |        | BN96-38700J | ASSY ACCESSORY CABLE;UHD LED TV          | 1    | SNA    |
| ...3  | T0268  | 3903-000950 | CBF-POWER CORD;DT,CEE,LP-21L,250V,2.5A,B | 1    | SA     |
| ...3  |        | 4301-000121 | BATTERY-MN;1.5V,R03,10.5x44.5m,7.5g,AAA  | 2    | SNA    |
| ...3  |        | 6902-001965 | BAG PE;LDPE,BIOBASED,T0.05,W200,L300,TRP | 1    | SNA    |
| ...3  | REMO2  | BN59-01178F | REMOCON;TM1250A,49,3.0V,TM1250A_EUROPE(C | 1    | SA     |
| ...3  | HOLDER | BN68-08370A | HOLDER-WIRE STAND;26UE4000 GUIDE STAND,P | 1    | SA     |
| ...3  | T0527  | BN68-00513A | LABEL-E,PASS;ALL MODEL,YUPO(110G),BLACK, | 1    | SNA    |
| ...3  | CAIR   | BN96-31644A | ASSY CABLE P;IR BLASTER,UL1185 28AWG,2.5 | 1    | SA     |
| 1     |        | BN92-19158A | ASSY P/MATERIAL;UHD 6K                   | 1    | SNA    |
| .2    |        | 6902-001955 | BAG ROLL;HDPE/PE FOAM,HDPE T0.018mm,T0.2 | 3    | SNA    |
| .2    |        | 6902-002233 | BAG AIR;LDPE,-,T0.2,W900,L1850,TRP,-,-,- | 1    | SNA    |
| .2    |        | 6922-000003 | BAND;PP,T0.8,W18,L1650M,TRP,DA69-90145A  | 1    | SNA    |
| .2    |        | BN02-00319B | TAPE OPP;OPP,T0.05,W75,L800m,CLEAR       | 4    | SNA    |
| .2    |        | BN68-02422B | LABEL-WARNING SHIPPING;ALL MODEL,A/P,T0. | 1    | SNA    |
| .2    |        | BN69-03982N | PAD PACKING-EDGE;EDGE,PAPER,-,T5,W120,L2 | 1    | SNA    |
| .2    |        | BN69-05418N | WRAP;T0.017,750,2000000,2000000,750      | 0    | SNA    |
| .2    |        | BN69-06640B | PAD;PAD,PAPER,-,CB-SW4,910,1290,-,-,-,-  | 1    | SNA    |
| .2    |        | BN69-06640E | PAD-TRUCK PAD;TRUCK PAD,PAPER,-,DW-BC,41 | 1    | SNA    |

| Level | Loc. | Part Code   | Description & Specification              | Qty. | SA/SNA |
|-------|------|-------------|------------------------------------------|------|--------|
| .2    |      | BN69-09624A | CUSHION-FRONT;UH6300-60,EPS              | 1    | SNA    |
| .2    |      | BN69-12476N | PALLET;UE58J5000,WOOD,-,1035,1630,141,-, | 1    | SNA    |
| .2    |      | BN69-12854A | CUSHION-SET;58J5000-QS,EPS,16.7g/l       | 1    | SNA    |
| ..3   |      | 0103-005099 | RESIN EPS;BASF303,Natural,Natural        | 904  | SNA    |
| 1     |      | BN92-19341T | ASSY LABEL;UHD 6K                        | 1    | SNA    |
| .2    |      | 0203-001598 | TAPE-FILAMENT;#8915,0.15,12,55000,CLR    | 0    | SNA    |
| .2    |      | BN68-06708G | LABEL RATING;Monitor,WW,PP,T0.161,93,73, | 1    | SNA    |
| .2    |      | BN68-07595D | LEAFLET-QSG;J5200,EU,W/P                 | 1    | SNA    |
| 1     |      | BN92-19380L | ASSY BOX;LED TV                          | 1    | SNA    |
| .2    |      | BH68-00662A | LABEL BOX-01;ALL MODEL,ART PAPER,60,110, | 1    | SNA    |
| .2    |      | BN69-12853E | BOX UNIT;58J5200-QS,CB,A-01, DW3,W1612,D | 1    | SNA    |