



TFT-LCD TV

Chassis
GPL15KU
GPL20KU

Model
LN15S51BP
LN20S51BP

SERVICE Manual

TFT-LCD TV



Fashion Feature

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Automatic channel tuning for up to 194 channels. (Air : 69 , STD : 125)
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- Built-in, dual channel speakers
- Headphone jack for private listening



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3 Alignments and Adjustments

3-1 Service Instruction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.
Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
7. To protect against shock hazard, use an isolation transform.

3-2 How to Access Service Mode

3-2-1 Entering Factory Mode

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

- If you do not have Factory remote - control



- If you have Factory remote - control



3-3 Factory Data

| Service | | |
|-------------------|----|--|
| PC Auto Color | ↺" | |
| Video Auto Color | ↺" | |
| Reset | ↺" | |
| DLC/MWE Part | ↺" | |
| SFR PART | ↺" | |
| Sub Adjust | ↺" | |
| UOC Adjust | ↺" | |
| Option | ↺" | |
| Checksum | ↺" | |
| Panel Information | ↺" | |
| Bus Stop : OFF | ↺" | |
| 2005/06/23 | | |
| T-pls25nus-0906 | | |

-. OSD which the basic adjustment is added.

PC Auto Color

Video Auto Color

Reset

DLC/MWE Part

SFR PART

Sub Adjust

UOC Adjust

Option

Checksum

Panel Information

Bus Stop : OFF

*. 2005/06/23: MCU firmware date.

*. T-PLUS25NUS-0906: MCU firmware version information

(this information must be appended due to a compatibility problem report.)

1) Reset: Factory reset

2) Bus Stop: The communication Line ON / OFF

Move to the (-) / (+) key, select the [Enter] key.

3) Auto adjustment

4) PC Auto Color/ Video Auto Color :in case that color of all screen is wrong, excute the PC Auto color at 16 gray pattern(refer to attach left 16gray pattern)

5) Checksum: MCU firmware checksum information
(this information must be appended due to a compatibility problem report.)

| Service | | |
|-------------------|----|--|
| PC Auto Color | ↺" | |
| Video Auto Color | ↺" | |
| Reset | ↺" | |
| DLC/MWE Part | ↺" | |
| SFR PART | ↺" | |
| Sub Adjust | ↺" | |
| UOC Adjust | ↺" | |
| Option | ↺" | |
| Checksum | ↺" | |
| Panel Information | ↺" | |
| Bus Stop : OFF | ↺" | |
| 2005/04/20 | | |
| TM-BRHMS20WW-0714 | | |



| DLC/MWE Part | | |
|--------------|--------|-----|
| NVRAM Reset | | |
| DLC- | 0-10 | 0 |
| MWE- | 0-1 | 1 |
| Demo | 0-1 | 0 |
| Brightness+ | 0-255 | 100 |
| Contrast+ | 0-255 | 113 |
| Sharpness+ | -10-10 | 1 |
| Hue+ | 0-100 | 50 |
| Saturation+ | 0-255 | 125 |
| R Offset | | 46 |
| G Offset | | 50 |
| B Offset | | 56 |
| R Gain | | 58 |
| G Gain | | 50 |
| B Gain | | 51 |

6) Dynamic Luma Adjustment

 $i^{\circ}-i_{\pm}$: RF, AV, S_Video -> all store

 $i^{\circ}+i_{\pm}$: RF, AV, S_Video -> apart store

| SFR Part | | |
|-----------|-------|-------|
| DCXO Sel. | | |
| DCXO Tune | | 64 |
| OVMAAPT | 0-1 | 1 |
| OVMTNR | 0-3 | 2 |
| IF Demod | 0-63 | 38 |
| F FI | 0-1 | 0 |
| R0:77 | R1:71 | R2:81 |
| R3:18 | R4:0 | R5:1F |

7) Special Function Register

| Sub Adjust | | |
|---------------|------|----|
| R Blk Lvl+ | 0-63 | 28 |
| G Blk Lvl+ | 0-63 | 20 |
| Peak Frq/DLY+ | 0-3 | 0 |
| Peak+ | 0-63 | 40 |
| Soft Clp Lvl- | 0-3 | 0 |
| W Limit- | 0-15 | 8 |
| R White Pnt+ | 0-63 | 37 |
| G White Pnt+ | 0-63 | 31 |
| B White Pnt+ | 0-63 | 31 |
| AGC T-O- | 0-63 | 23 |

3 Alignments and Adjustments

| UOC Adjust | | | | | | | | |
|------------|-----|----|----|----|----|----|-------|---|
| BKS- | 0-1 | | | | | | | 1 |
| WSx- | 0-3 | | | | | | | 2 |
| | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 2 |
| | 0 | 20 | 20 | 20 | 20 | 20 | 20 | 2 |
| | 0 | 20 | 20 | 20 | 19 | 26 | | |

| Adjust | | | | | | | | |
|--------------|-------|---|---|----|----|----|--|----|
| R Offset | | | | | | | | 20 |
| G Offset | | | | | | | | 20 |
| B Offset | | | | | | | | 20 |
| R Gain | | | | | | | | 20 |
| G Gain | | | | | | | | 20 |
| B Gain | | | | | | | | 20 |
| Sclr Coring+ | 0-255 | | | | | | | 35 |
| | 0 | 0 | 0 | FF | DD | BD | | |

| Service | | | | | | | | |
|-----------------|---|-----|--|--|--|--|--|--|
| Suwon + America | | | | | | | | |
| Samex + America | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Help Menu | : | On | | | | | | |
| Auto-Auto | : | Off | | | | | | |

| Service | | | | | | | | |
|-------------|---|-------------|---|--|--|--|--|--|
| Monitor | : | 3 Hr | | | | | | |
| Panel Cycle | : | 249 | | | | | | |
| | | Time Ch. No | | | | | | |
| Panel | : | 3 Hr | 0 | | | | | |
| Upper Lamp | : | 3 Hr | 0 | | | | | |
| Lower Lamp | : | 3 Hr | 0 | | | | | |

8) UOC Adjustment

BKS : Black stretch

Wsx : White stretch

9) Option: Spread Step / Spread Span (for EMI test)

10) Panel Information

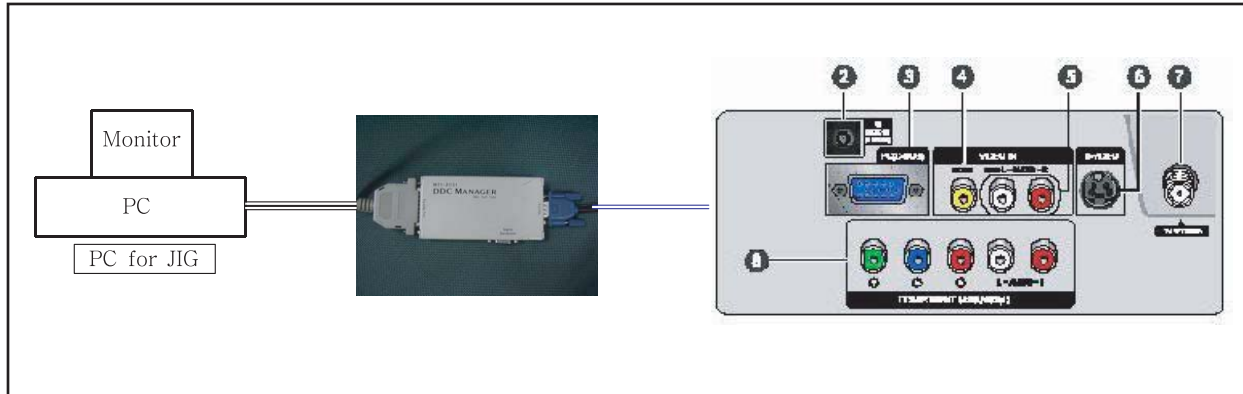
various function are included in information.

- Monitor On Time : Power On Time
- Panel Cycle : Panel On/off time (Power off, Mode change, DPMS on/off ...)
- Panel : Panel on Time
(when the panel is changed , select the Reset)
- Lower lamp : Lower lamp on time
(when the Lower lamp is changed , select the Reset)
- Upper lamp : Upper Lamp on time
(when the Upper Lamp is changed , select the Reset)

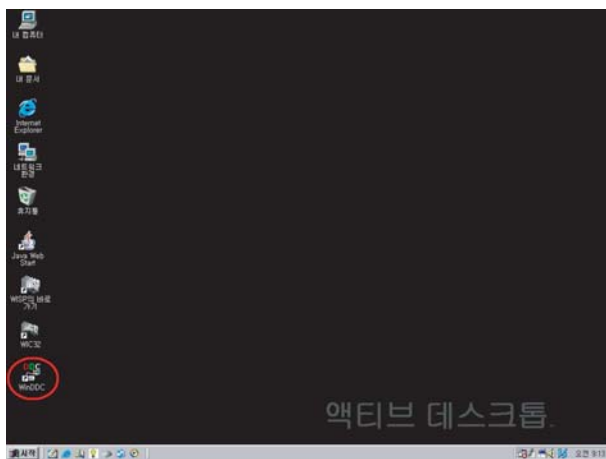
3-4 Service Adjustment

3-4-1 EDID input method

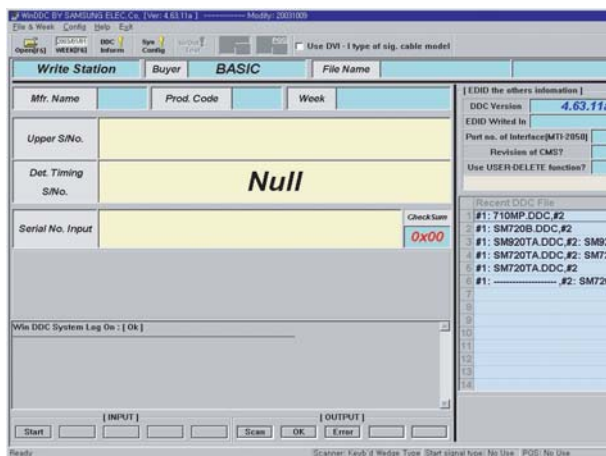
- SAMSUNG LCD TV support the DDC control JIG.
- You can see the connection between PC and LCD TV.



3-4-2 EDID input method (Windows Program)

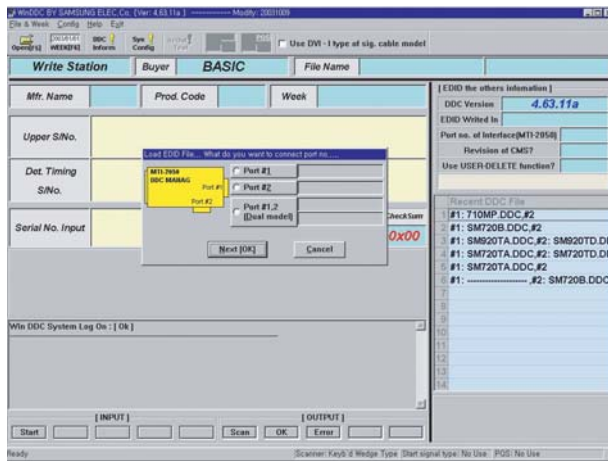


1. Execute "WinDDC.EXE"

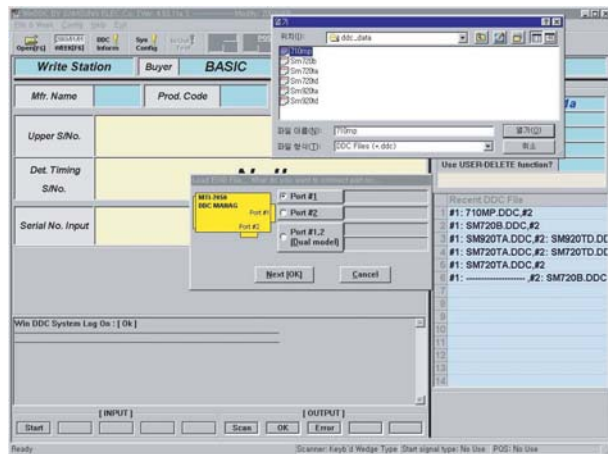


2. Click "Open[F5]"

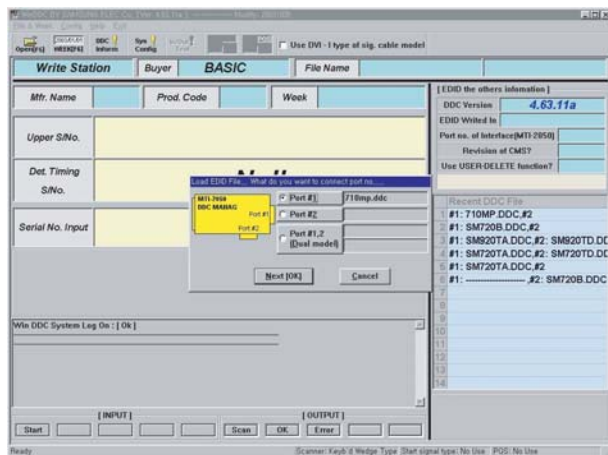
3 Alignments and Adjustments



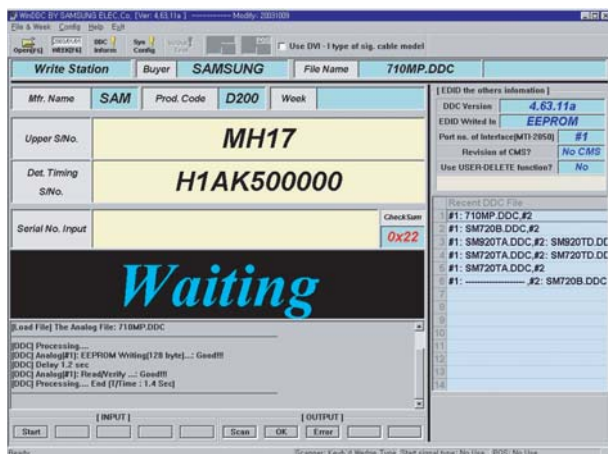
3. Select Connected Port#1 and Click Next OK.



4. Select Connected Port#1 and Click Next OK.
Find file name :
15 inch : VE15
17 inch : VC17
20 inch : VC20

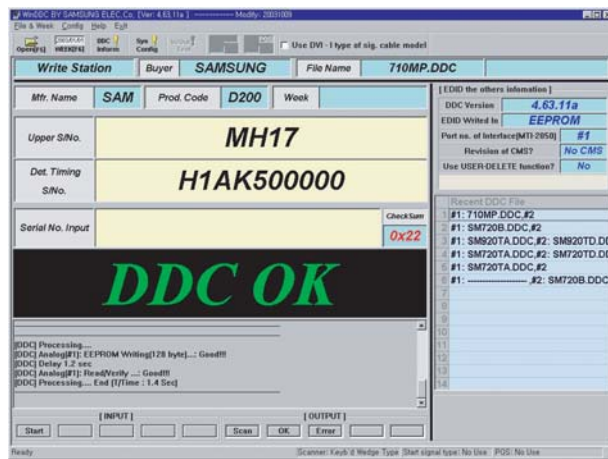


5. Click Next (OK) button.



6. Select enter button (on Key-Board) After Monitor S/N input.

8. Check "DDC OK".



3-4-3 Micom (TDA15001H) Program Upgrade



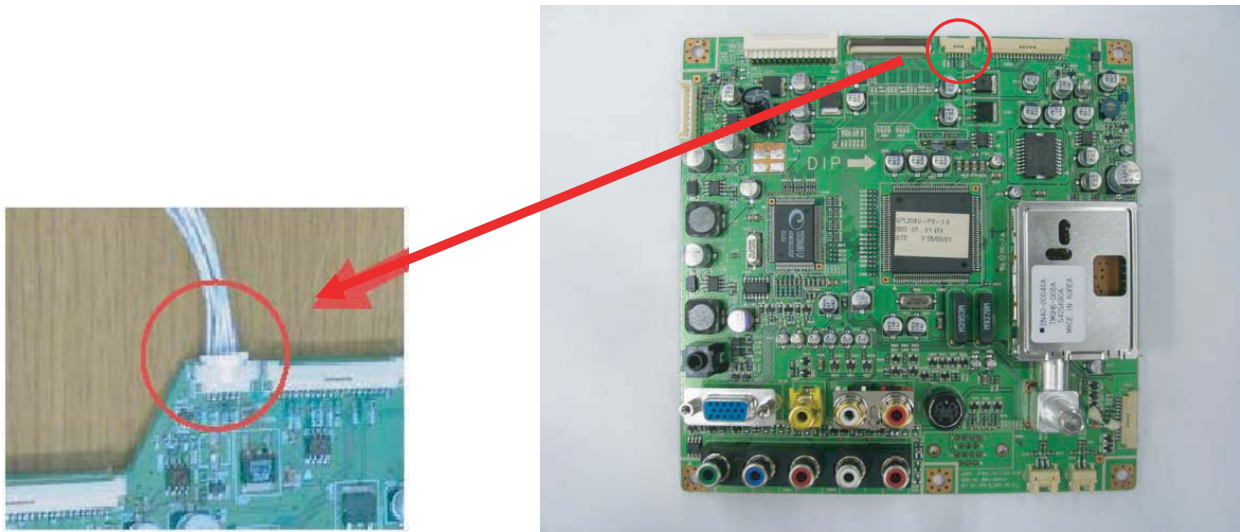
1. Program Upgrade Jig



2. Connect the parallel Port

3 Alignments and Adjustments

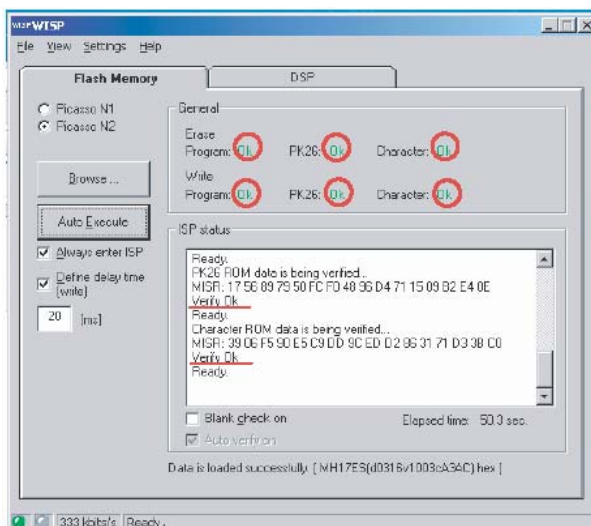
3. Connect Jig to CN905 on PCB Ass'y



4. Click i°WISP± Icon on Computer

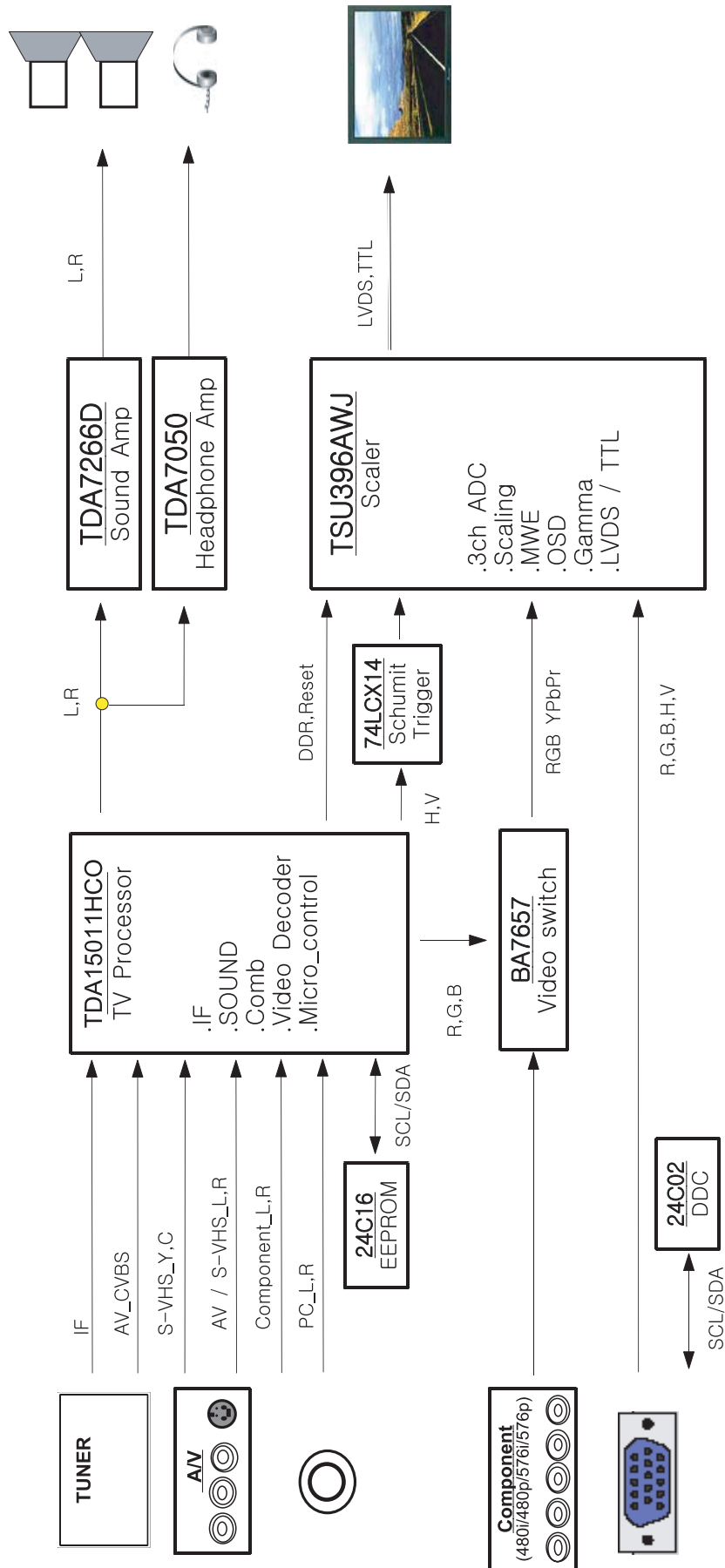


5. Check "Automatic mode on".



6. Click i°Browser± button : Select the Code , Click i°Auto Execute± button Check Erase and Write OK In "General" window and check Verify OK in "ISP status" window.

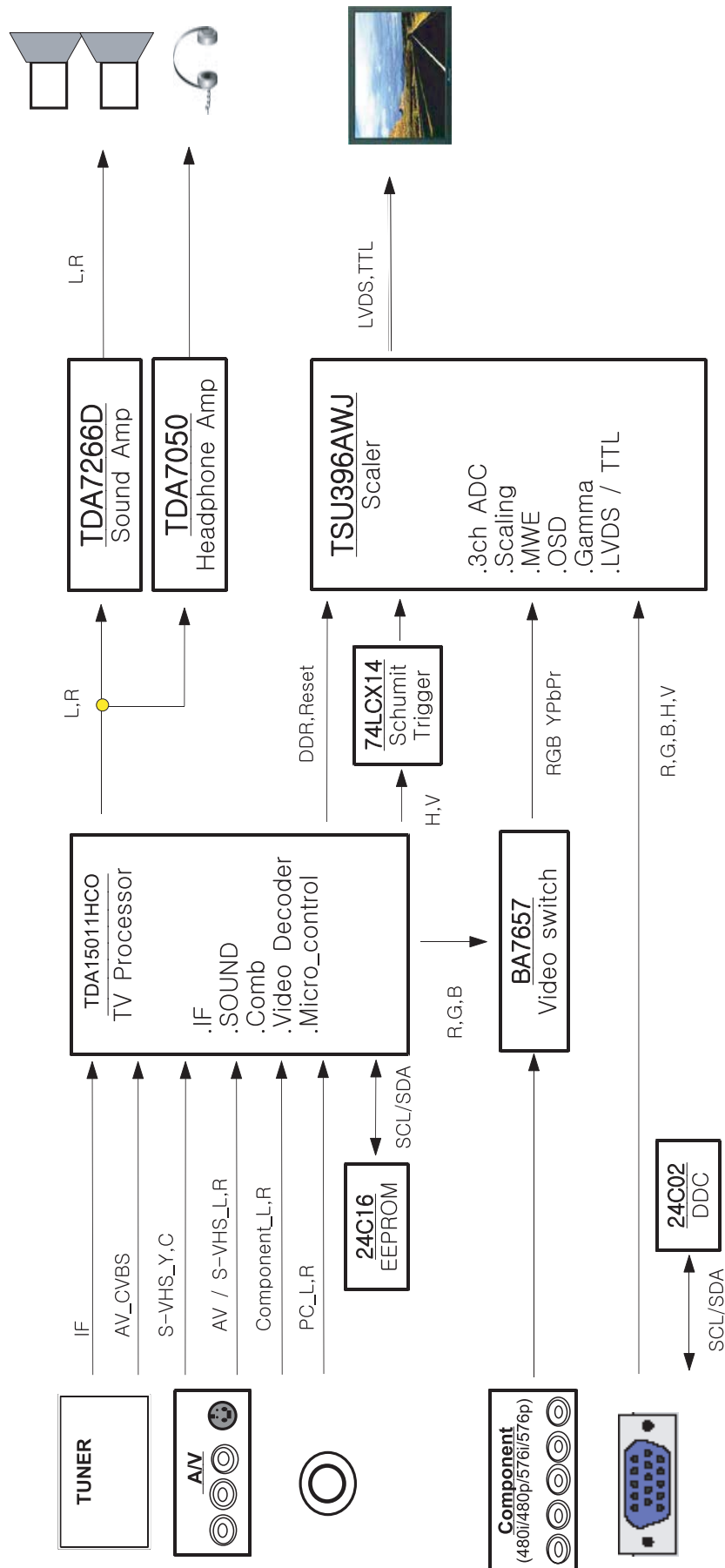
7 Block Diagram



Memo

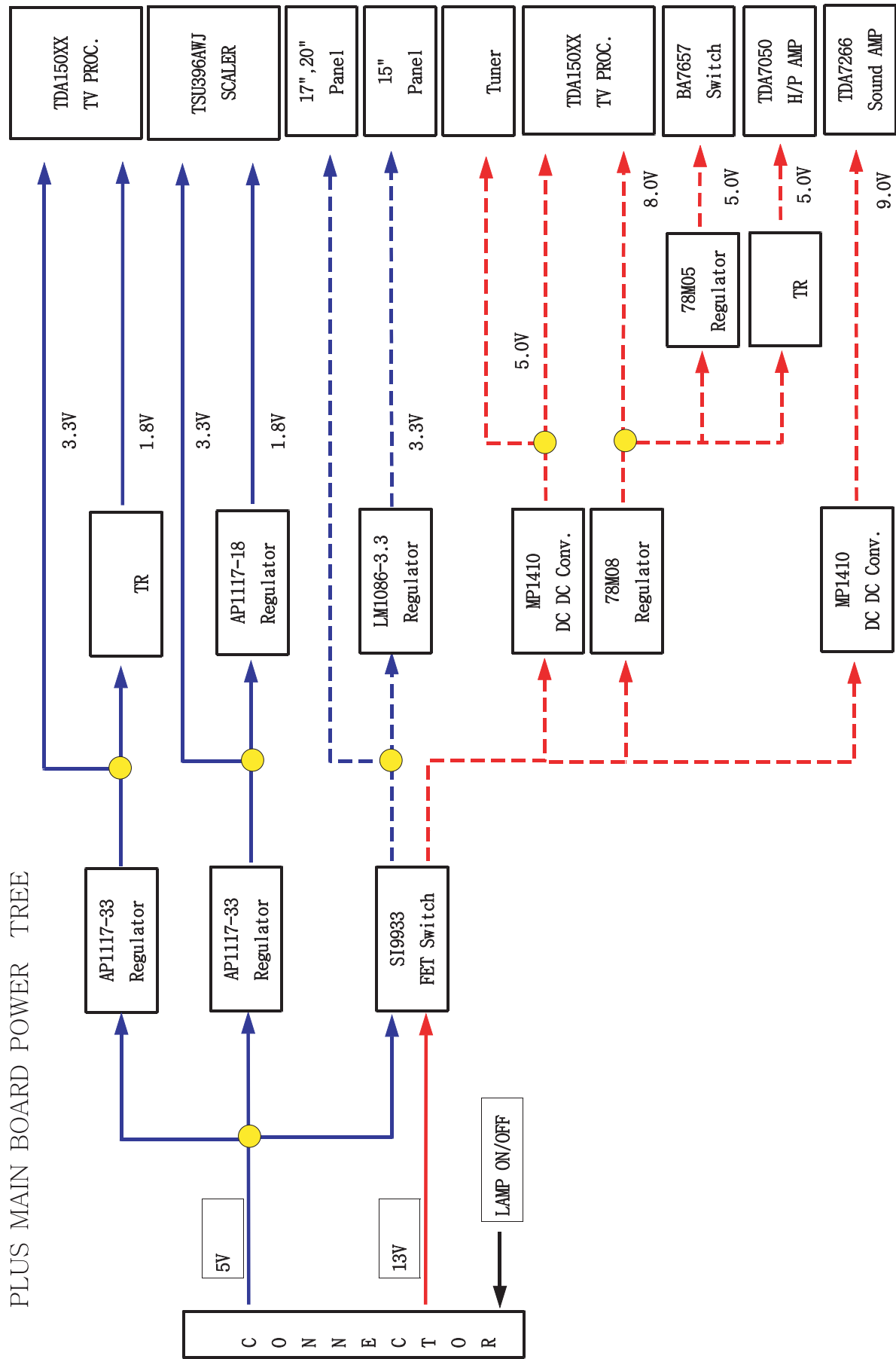
13 Circuit Descriptions

13-1 Overall Block Structure

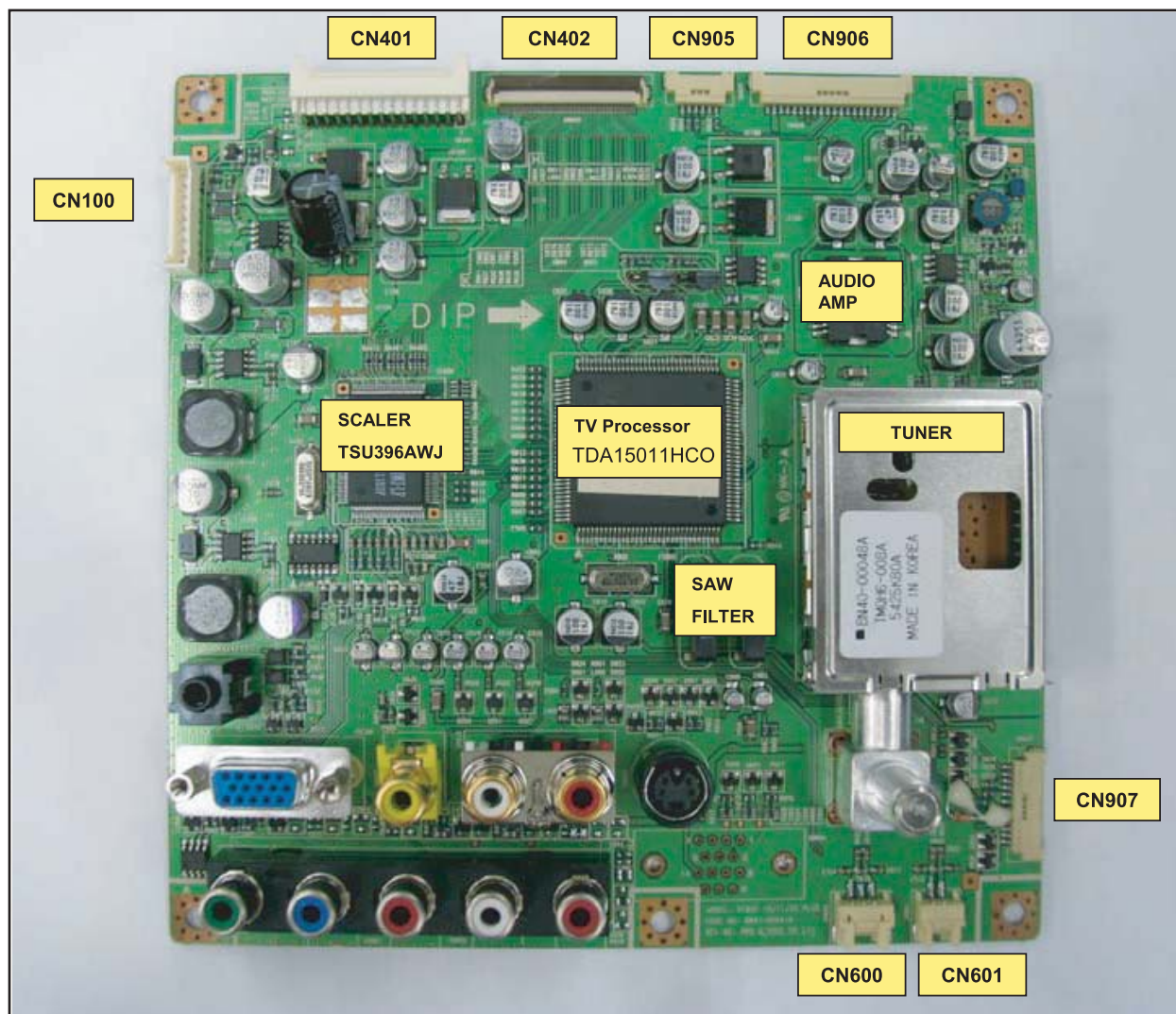


13-2 Partial Block Description

13-2-1 MAIN BOARD POWER TREE



13-2-2 WIRING DIAGRAM



- CN100(9P) : To IP Board
 CN401(30P) : To 15",17" Panel
 CN402(50P) : To 20" Panel
 CN905(5P) : To Program Download Jig
 CN906(20P) : To Scaler Test Jig
 CN600(3P) : To Left Speaker
 CN601(2P) : To Right Speaker
 CN907(12P) : To Function Board

13 Circuit Descriptions

CN401

15",17" Panel LVDS Interface

| Pin No. | AD B'D | PANEL | Pin No. | AD B'D | PANEL |
|---------|--------|-------|---------|--------|-------|
| 1 | N.C | 5V | 16 | E0- | E1- |
| 2 | GND | 5V | 17 | O3+ | GND |
| 3 | E3+ | 5V | 18 | O3- | E0+ |
| 4 | E3- | NC | 19 | OCK+ | E0- |
| 5 | GND | NC | 20 | OCK- | O3+ |
| 6 | ECK+ | NC | 21 | GND | O3- |
| 7 | ECK- | GND | 22 | O2+ | OC+ |
| 8 | GND | E3+ | 23 | O2- | OC- |
| 9 | E2+ | E3- | 24 | O1+ | GND |
| 10 | E2- | EC+ | 25 | O1- | O2+ |
| 11 | GND | EC- | 26 | O0+ | O2- |
| 12 | E1+ | E2+ | 27 | O0- | O1+ |
| 13 | E1- | E2- | 28 | +5V | O1- |
| 14 | GND | GND | 29 | +5V | O0+ |
| 15 | E0+ | E1+ | 30 | +5V | O0- |

CN402

20 Inch Panel TTL Interface

| Pin No. | Main B'D | PANEL | Pin No. | Main B'D | PANEL |
|---------|----------|----------|---------|----------|-------|
| 1 | NC | NC | 26 | R1 | R0 |
| 2 | NC | NC | 27 | R2 | GND |
| 3 | GND | NC | 28 | R3 | G7 |
| 4 | GND | GND | 29 | GND | G6 |
| 5 | B0 | GND | 30 | R4 | G5 |
| 6 | B1 | 5.0V | 31 | R5 | G4 |
| 7 | B2 | 5.0V | 32 | R6 | GND |
| 8 | B3 | 5.0V | 33 | R7 | G3 |
| 9 | GND | 5.0V | 34 | GND | G2 |
| 10 | B4 | GND | 35 | DCLK | G1 |
| 11 | B5 | HSYNC/NC | 36 | GND | G0 |
| 12 | B6 | VSYNC/NC | 37 | DE | GND |
| 13 | B7 | GND | 38 | GND | B7 |
| 14 | GND | DE | 39 | VSYNC/NC | B6 |
| 15 | G0 | GND | 40 | HSYNC/NC | B5 |
| 16 | G1 | DCLK | 41 | GND | B4 |
| 17 | G2 | GND | 42 | 5.0V | GND |
| 18 | G3 | R7 | 43 | 5.0V | B3 |
| 19 | GND | R6 | 44 | 5.0V | B2 |
| 20 | G4 | R5 | 45 | 5.0V | B1 |
| 21 | G5 | R4 | 46 | GND | B0 |
| 22 | G6 | GND | 47 | GND | GND |
| 23 | G7 | R3 | 48 | NC | GND |
| 24 | GND | R2 | 49 | NC | NC |
| 25 | R0 | R1 | 50 | NC | NC |

CN100

Inverter Power Interface

| Pin No. | Main B'D | IP B'D |
|---------|----------|--------|
| 1 | +13V | BL_EN |
| 2 | +13V | BL_BRT |
| 3 | GND | +5V |
| 4 | GND | +5V |
| 5 | GND | GND |
| 6 | +5V | GND |
| 7 | +5V | GND |
| 8 | BL_BRT | +13V |
| 9 | BL_EN | +13V |

CN907

Function Board Interface

| Pin No. | Main B'D | Function |
|---------|----------|----------|
| 1 | KEY2 | LED_GRN |
| 2 | KEY1 | LED_RED |
| 3 | GND | NC |
| 4 | HP_R | 3.3V |
| 5 | HP_L | IR |
| 6 | HP_IDENT | GND |
| 7 | GND | HP_IDENT |
| 8 | IR | HP_L |
| 9 | 3.3V | HP_R |
| 10 | NC | GND |
| 11 | LED_RED | KEY1 |
| 12 | LED_GRN | KEY2 |

11 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the LN15S51BP/LN20S51BP LCD TV.

⚠ **WARNING:** This monitor contains electrostatically sensitive devices. Use caution when handling these components.

11-1 LN15S51BP Disassembly

⚠ **Cautions:** **1. Disconnect the monitor from the power source before disassembly.**
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.



1. Place monitor face down on cushioned table.
 Remove 6 screws from the rear cover and lift up the rear cover.



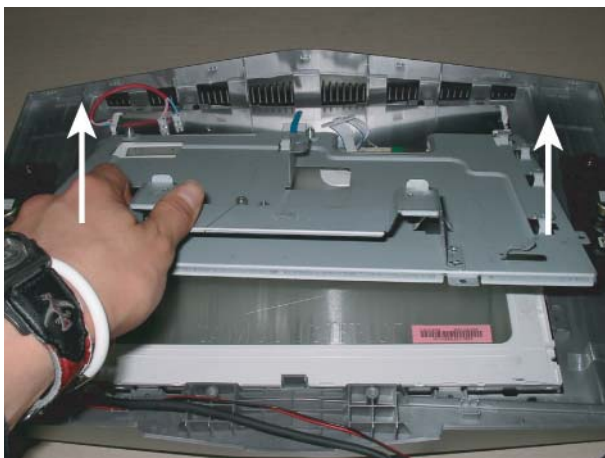
2. Disconnect Lamp wire, LVDS cable and Speaker cable.



3. Remove 11 screws from the boards and lift up the boards.



4. Remove 6 screws from the shield PCB.



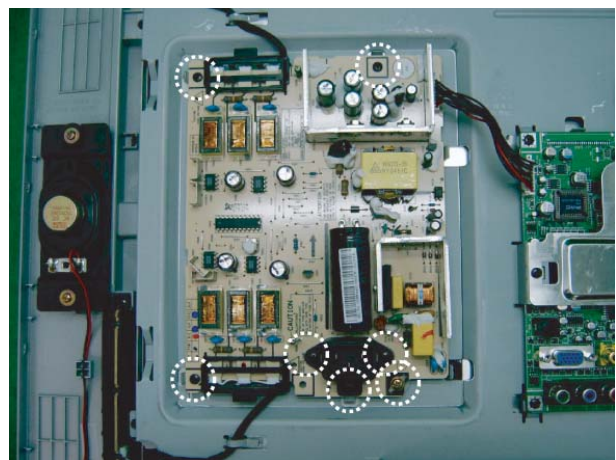
5. Lift up the shield PCB and lift up the LCD panel.



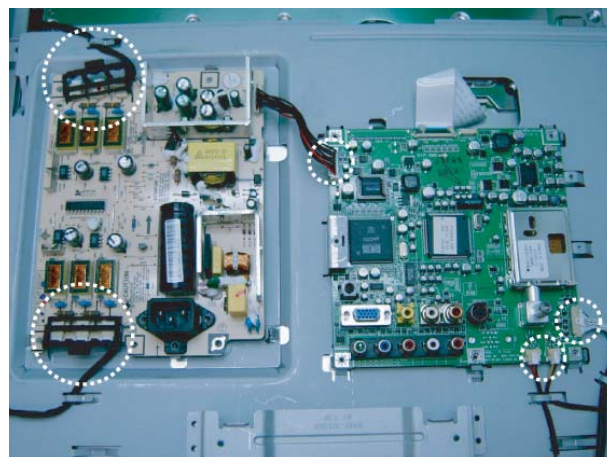
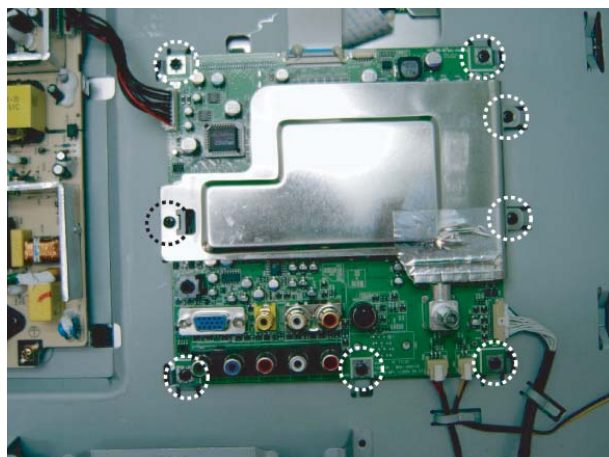
11-2 LN20S51BP Disassembly



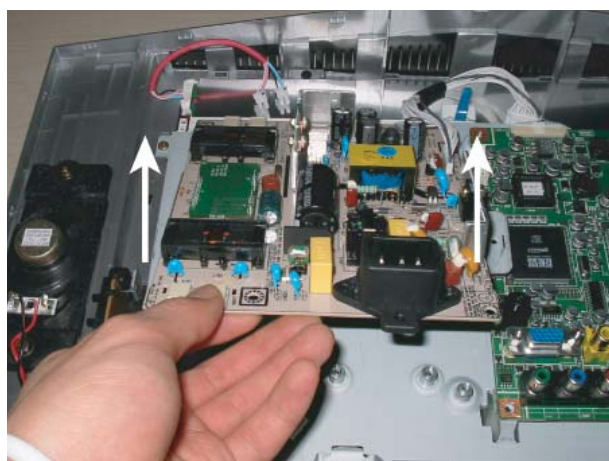
1. Place monitor face down on cushioned table. Remove 6 from the rear-cover screws and remove stand.



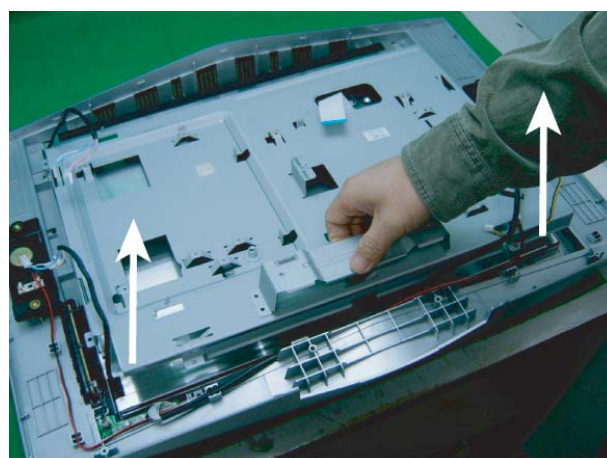
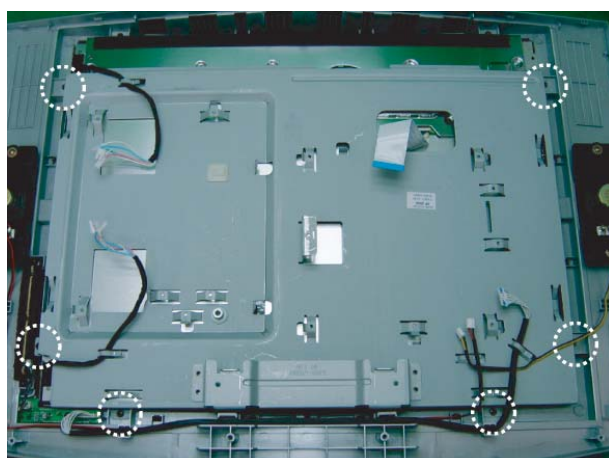
2. Lift up the rear cover and remove 7 screws from the power board.



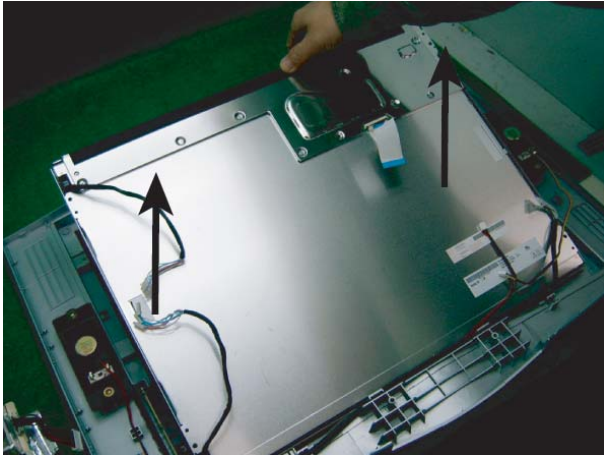
3. Remove 8 screws from the main board and disconnect cables.



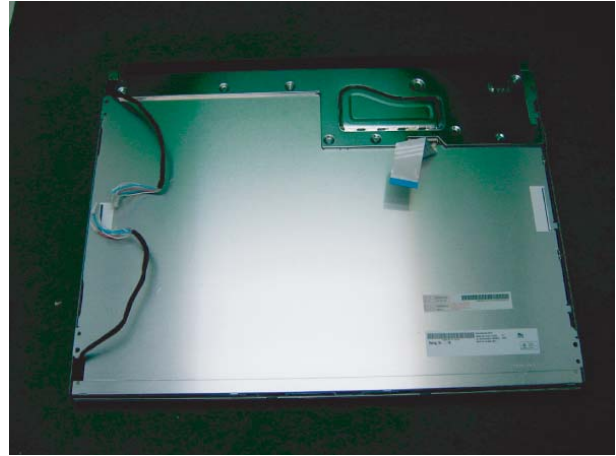
4. Lift up the power board and main board.



5. Remove 6 screws from the BRKT and lift up the BRKT.



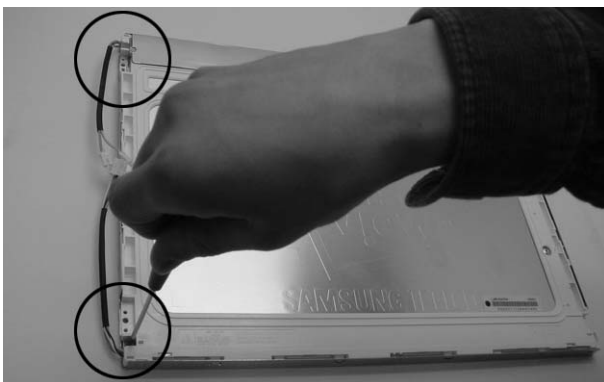
5. Lift up the panel.



11-3 Replacement Order of Lamp Assemblies



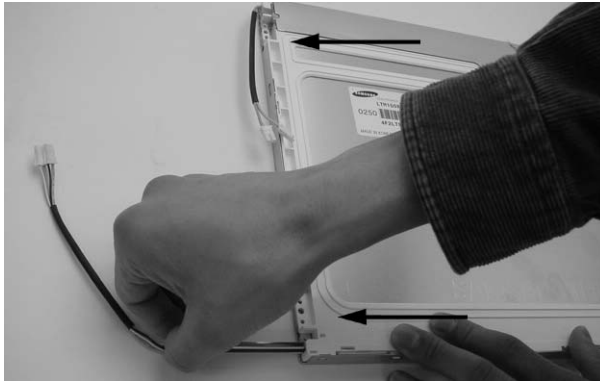
1. After confirm there is nothing on the desk, turn the LCD module over and put it on a flat desk set to the ground.



2. Remove 2 screws for the lamp unit.

11 Disassembly and Reassembly

← Slide the lamp unit out.



← Slide the lamp unit out.

3. Slide the lamp unit out. Please take out the lamp unit from the LCD module.



4. Please fix the new lamp units on the LCD module : opposite process 2 and 3.

11-4 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

6 Electrical Parts List

-You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr/>

6-1 LN15S51BP

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|----------------|--|------|--------|
| 0 | | LN15S51BPX/XAX | LN15S51BP,A1AB/15A90-GPL,15,LCD-TV,MEXIC | 0 | |
| 1 | M0001 | BN90-00710A | ASSY COVER FRONT;SP15UO | 1 | SNA |
| ..2 | T0003 | BN96-01864A | ASSY COVER P-FRONT;SP15UO,ABS,V0,GR70,SV | 1 | SA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 2 | SNA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 1 | SNA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 2 | SNA |
| ...3 | M0081 | 6003-001467 | SCREW-TAPTITE;PWH,+,B,M3,L10,ZPC(YEL) | 4 | SNA |
| ...3 | M2893 | BN39-00613B | LEAD CONNECTOR;SPARTA,UL1061#28,UL/CSA,1 | 1 | SA |
| ...3 | T0750 | BN63-01742A | COVER-MASK;SP15UO,HIPS,V0,BK500,BKM1143 | 1 | SNA |
| ...3 | M0112 | BN63-01743A | COVER-FRONT;SP15,ABS,V0,GR70,SV012P | 1 | SNA |
| ...3 | T0057 | BN64-00031A | BADGE-BRAND;RB15AS,AL,T1.4,6.3,40.1,SILI | 1 | SNA |
| ...3 | M0007 | BN64-00330A | KNOB-FUNCTION;SPARTA,ABS,HB,BK07,HI-GLOS | 1 | SNA |
| ...3 | T0175 | BN96-01690A | ASSY SPEAKER P;16OHM,LEFT,3W,250MM,SPART | 1 | SA |
| ...3 | M0145 | BN96-01883A | ASSY BOARD P-FUNCTION;SPARTA,CT5000-3240 | 1 | SA |
| ...3 | T0714 | BN96-01884A | ASSY BOARD P-IR;SPARTA,CT5000-3250,IR BO | 1 | SA |
| ...3 | T0175 | BN96-01891A | ASSY SPEAKER P;16ohm,Right,3W,550mm,Spar | 1 | SA |
| ...3 | T0382 | BP61-00509C | HOLDER-CARE;PJT,ACRYL-FOAM,T0.25,W20.0mm | 0.28 | SNA |
| ...3 | T0299 | BN64-00370A | WINDOW-RMC LED;SP20UO,ACRYL,DIFFUSIVE | 1 | SNA |
| ...3 | T0069 | AA60-00091D | SPACER-FELT;-FELT,200X10,-,-,BLK,T0.35, | 2 | SA |
| ...3 | T0069 | AA60-00091K | SPACER-FELT;-FELT,330X10,-,-,BLK,T0.35, | 2 | SNA |
| ...3 | T0069 | AA60-00171F | SPACER-FELT;50L2,FELT,350,T0.5,5 | 2 | SNA |
| 1 | M0002 | BN90-00712A | ASSY COVER REAR;SP15UO | 1 | SNA |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 2 | SNA |
| ..2 | M0013 | BN96-01865A | ASSY COVER P-REAR;SP15UO,HIPS V0,GR86 | 1 | SA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 1 | SNA |
| ...3 | M0114 | BN61-01576A | HOLDER-WIRE;SP20,HIPS,V0,GR86 | 1 | SNA |
| ...3 | | BN63-01178H | COVER-INLAY;SPUO,PC SHEET,T0.5,SPARTA | 1 | SNA |
| ...3 | M0006 | BN63-01744A | COVER-REAR;SP15UO,HIPS,V0,GR86 | 1 | SNA |
| ...3 | T0069 | AA63-60001E | SPACER-FELT;-FELT,-,-,BLK,0.5,-,55X15 | 2 | SNA |
| ...3 | T0069 | AA63-60131J | SPACER-FELT;54J9,62J9,FELT,-,-,-,T0.5, | 1 | SNA |
| ...3 | T0067 | BP60-00061Q | SPACER-SCREEN;SP20UO,SPONGE,35,T2.0,20,E | 2 | SNA |
| 1 | M0216 | BN90-00713A | ASSY STAND;SP15 | 1 | SNA |
| ..2 | M0081 | 6003-001324 | SCREW-TAPTITE;BH,+,B,M4,L16,NI PLT,SWRCH | 4 | SNA |
| ..2 | M0045 | BN96-01867A | ASSY STAND P-SET;SPARTA 15,HIPS,HB,GR86, | 1 | SA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 4 | SNA |
| ...3 | M0081 | 6003-001001 | SCREW-TAPTITE;FH,+,B,M3,L8,ZPC(BLK),SWRC | 5 | SNA |
| ...3 | | BN61-01595A | BRACKET-STAND BOTTOM;SP15UO,SECC,T1.0 | 1 | SNA |
| ...3 | M0111 | BN63-01794A | COVER-STAND;SP15,HIPS,T2.5,HB,GR86,SV012 | 1 | SNA |
| ...3 | | BN63-01795A | COVER-STAND SUB;SP15,ABS,T2.5,HB,GR86,SV | 1 | SNA |
| ...3 | | BN64-00333A | KNOB-LOCKING;SPARTA,ABS,HB,GR86,SVM3012 | 1 | SNA |
| ...3 | T0132 | BN73-60002C | RUBBER FOOT;VENICE 15",RUBBER,DIA 14,1.0 | 4 | SNA |
| ...3 | T0022 | BN96-01866A | ASSY HINGE P-SIMPLE;SP15UO | 1 | SNA |
| 1 | | BN91-00567K | ASSY LCD-S3;ES15/MB15,S3 | 1 | SNA |
| ..2 | M0019 | BN07-00111A | LCD;LTM150XH-L06,CZB,6BIT FRC,331.6*254. | 1 | SA |
| 1 | M0112 | BN91-00845D | ASSY SHIELD;LNR1550PX/XAA,PL15KU,PLUS | 1 | SNA |
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 4 | SNA |
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 4 | SNA |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 2 | SNA |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 6 | SNA |
| ..2 | M0162 | 6502-000121 | CABLE CLAMP;DAMC-101,D7-8,L19,SCP-1,NTR | 1 | SNA |
| ..2 | M2893 | BN39-00687A | LEAD CONNECTOR;Venice PLUS,UL1061#28,20P | 1 | SA |
| ..2 | M0174 | BN44-00112A | IP BOARD;IP-31.6W(13V,5V),VENICE,1.5MA~3 | 1 | SA |
| ..2 | T0081 | BN61-01234A | HOLDER-INVERTER;MATISSE,ABS V0,BK07 | 2 | SNA |
| ..2 | | BN96-01875A | ASSY SHIELD P-PANEL;SP15S5,SECC,T1.0 | 1 | SNA |
| ...3 | T0514 | BN61-01597A | BRACKET-SUPPORT;SP15UO,SECC,T1.0 | 1 | SNA |
| ...3 | M0125 | BN63-01740A | SHIELD-PANEL;LN15S51B,SECC,T1.0,CMO | 1 | SNA |
| 1 | M0017 | BN91-00940A | ASSY CHASSIS;LTP1545P,PL15KU | 1 | SA |
| ..2 | M0014 | BN94-00747A | ASSY PCB MAIN;LTP1545P,PL15KU | 1 | SA |
| ...3 | T0245 | 0202-001366 | SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb, | 0.03 | SNA |
| ...3 | Q802 | 0501-000321 | TR-SMALL SIGNAL;KSB1116-Y,PNP,750mW,TO-9 | 1 | SA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|---|------|--------|
| ...3 | Q804 | 0501-000321 | TR-SMALL SIGNAL;KSB1116-Y,PNP,750mW,TO-9 | 1 | SA |
| ...3 | CN908 | 3701-001294 | CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU | 1 | SA |
| ...3 | CN906 | 3705-001329 | CONNECTOR-COAXIAL;NT(F),ADAPTOR,-,75ohm, | 1 | SA |
| ...3 | CN100 | 3711-004712 | HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA | 1 | SA |
| ...3 | CN401 | 3711-005884 | HEADER-BOARD TO BOARD;BOX,30P,2R,2mm,ANG | 1 | SA |
| ...3 | CN900 | 3722-000158 | JACK-PIN;1P,3.4mm,SN,YEL,- | 1 | SA |
| ...3 | CN909 | 3722-001061 | JACK-PHONE;1P,3.6PI,AG,BLK,N | 1 | SA |
| ...3 | CN903 | 3722-001734 | JACK-VHS;4P,-,SN,BLK,- | 1 | SA |
| ...3 | CN913 | 3722-001846 | JACK-PIN;2P,8.3MM,AU,WHT/RED,- | 1 | SA |
| ...3 | CN901 | 3722-002143 | JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI | 1 | SA |
| ...3 | CIS3 | BN40-00069A | TUNER;TECH1840PG31A(S),TECH1840PG31A(S), | 1 | SA |
| ...3 | T0174 | BN97-00647A | ASSY SMD;LTP1545P,PL15KU | 1 | SNA |
| ...4 | CIS5 | 0202-001375 | SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36. | 3.82 | SNA |
| ...4 | D202 | 0401-000133 | DIODE-SWITCHING;RLS4148,75V,150mA,LL-34, | 1 | SA |
| ...4 | D200 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D600 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D908 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D909 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D910 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D929 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D948 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D949 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D203 | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3 | 1 | SA |
| ...4 | D204 | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3 | 1 | SA |
| ...4 | D101 | 0402-000553 | DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA | 1 | SA |
| ...4 | D102 | 0402-000553 | DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA | 1 | SA |
| ...4 | D912 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D913 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D914 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D915 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D916 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D904 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D918 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D920 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D928 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D603 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D604 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D605 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D606 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D900 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D901 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D902 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D903 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D905 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D906 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D921 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D922 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D923 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D924 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D925 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D926 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D927 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D935 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D937 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D938 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D939 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D945 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D946 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D947 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | ZD101 | 0403-001411 | DIODE-ZENER;- ,5.49-5.73V,200MW,SOD-323,T | 1 | SA |
| ...4 | ZD102 | 0403-001411 | DIODE-ZENER;- ,5.49-5.73V,200MW,SOD-323,T | 1 | SA |
| ...4 | ZD103 | 0403-001411 | DIODE-ZENER;- ,5.49-5.73V,200MW,SOD-323,T | 1 | SA |
| ...4 | D201 | 0403-001425 | DIODE-ZENER;BZX84C33,31-35V,350MW,SOT-23 | 1 | SA |
| ...4 | D602 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | SA |
| ...4 | D601 | 0407-000123 | DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT- | 1 | SA |
| ...4 | D917 | 0407-000123 | DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT- | 1 | SA |
| ...4 | Q801 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23 | 1 | SA |
| ...4 | Q200 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q600 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q601 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q602 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q603 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q809 | 0501-000344 | TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT- | 1 | SA |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | Q803 | 0501-000727 | TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23, | 1 | SA |
|4 | Q805 | 0501-000727 | TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23, | 1 | SA |
|4 | Q100 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q101 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q201 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q203 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q500 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q501 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q502 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q604 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q808 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q900 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q901 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q409 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0. | 1 | SA |
|4 | Q409 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0. | 1 | SA |
|4 | Q409 | 0505-001170 | FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0 | 1 | SA |
|4 | IC104 | 0801-002267 | IC-CMOS LOGIC;74LCX14,-,SOIC,14P,150MIL, | 1 | SA |
|4 | IC106 | 1001-001082 | IC-VIDEO SWITCH;BA7657F,-,SOP,24P,300MIL | 1 | SA |
|4 | IC109 | 1003-001826 | IC-LCD CONTROLLER;TSU396AWJ-LF,PQFP,128P | 1 | SA |
|4 | IC112 | 1103-000129 | IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5 | 1 | SA |
|4 | IC112 | 1103-001314 | IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2.7/5. | 1 | SA |
|4 | T0085 | 1201-001495 | IC-AUDIO AMP;7050,SOP,8P,150MIL,DUAL,26D | 1 | SA |
|4 | T0085 | 1201-001980 | IC-AUDIO AMP;TDA7266D,SO,20P,16X11.1MM,- | 1 | SA |
|4 | T0087 | 1203-001488 | IC-POSIFIXED REG.;7805,TO-252,3P,-,PLAS | 1 | SA |
|4 | T0087 | 1203-001816 | IC-POSIFIXED REG.;78M08,TO-252,3P,-,PLA | 1 | SA |
|4 | T0087 | 1203-002057 | IC-POSIFIXED REG.;1086,TO-263,3P,-,PLAS | 1 | SA |
|4 | T0087 | 1203-002842 | IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P | 1 | SA |
|4 | T0087 | 1203-002842 | IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P | 1 | SA |
|4 | T0087 | 1203-002844 | IC-POSIFIXED REG.;AP1117D-18A,TO-252-3L | 1 | SA |
|4 | IC108 | 1203-003015 | IC-DC/DC CONVERTER;MP1410ES,SOIC,8P,4.9x | 1 | SA |
|4 | IC110 | 1203-003015 | IC-DC/DC CONVERTER;MP1410ES,SOIC,8P,4.9x | 1 | SA |
|4 | R944 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R948 | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R949 | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | 15INCH | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | NT | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R100 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R205 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R207 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R208 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R252 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R253 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R311 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R801 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R844 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R849 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R884 | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R203 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R204 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R602 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R603 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R628 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R803 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R804 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R805 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R807 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R808 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R809 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R810 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R811 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R812 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R813 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R814 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R815 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R816 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R817 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R818 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R819 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R820 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R821 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R822 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R823 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R836 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |

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| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|---------------------------------|------|--------|
|4 | R839 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R858 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R859 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R878 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R879 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R882 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R890 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R894 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R895 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R905 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R907 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R910 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R945 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R950 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R951 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R952 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R956 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R957 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R962 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R200 | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R975 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R231 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R233 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R237 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R238 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R410 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R411 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R412 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R604 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R611 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R619 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R623 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R828 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R888 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R889 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R913 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R931 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R932 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R229 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R230 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R235 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R236 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R511 | 2007-000080 | R-CHIP;2Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R624 | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R625 | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R228 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R234 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R402 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R408 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R409 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R600 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R601 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R607 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
| | | | | | |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|---------------------------------|------|--------|
|4 | R930 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R946 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R173 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R114 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R174 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R209 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R404 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R405 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R406 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R407 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R515 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R605 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R606 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R608 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R610 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R627 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R873 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R876 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R915 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R916 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R921 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R922 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R938 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R947 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R955 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R971 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R972 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R976 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R167 | 2007-000091 | R-CHIP;12Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R831 | 2007-000091 | R-CHIP;12Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R612 | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R613 | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R616 | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R202 | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R513 | 2007-000100 | R-CHIP;68Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R116 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R120 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R121 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R201 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R853 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R617 | 2007-000103 | R-CHIP;120Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R845 | 2007-000106 | R-CHIP;220Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R509 | 2007-000107 | R-CHIP;470Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R618 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R622 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R933 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R935 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R936 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R937 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R939 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R941 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R413 | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R851 | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R852 | 2007-000120 | R-CHIP;680ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R973 | 2007-000120 | R-CHIP;680ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R848 | 2007-000130 | R-CHIP;39Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R896 | 2007-000234 | R-CHIP;1.3Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R833 | 2007-000239 | R-CHIP;1.5Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R824 | 2007-000287 | R-CHIP;100OHM,1%,1/10W,TP,1608 | 1 | SA |
|4 | R825 | 2007-000287 | R-CHIP;100OHM,1%,1/10W,TP,1608 | 1 | SA |
|4 | R826 | 2007-000287 | R-CHIP;100OHM,1%,1/10W,TP,1608 | 1 | SA |
|4 | R620 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R621 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R837 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R953 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R954 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R897 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R925 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R871 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R872 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R874 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R875 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R926 | 2007-000570 | R-CHIP;220OHM,1%,1/10W,TP,1608 | 1 | SA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | R899 | 2007-000659 | R-CHIP;27ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R169 | 2007-000708 | R-CHIP;3.9Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R832 | 2007-000882 | R-CHIP;4.7ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R171 | 2007-000913 | R-CHIP;43Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R500 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R501 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R502 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R503 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R504 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R505 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R115 | 2007-000939 | R-CHIP;47Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R211 | 2007-000939 | R-CHIP;47Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R168 | 2007-000965 | R-CHIP;5.1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R172 | 2007-000965 | R-CHIP;5.1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R830 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R974 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R829 | 2007-001134 | R-CHIP;68ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R883 | 2007-001134 | R-CHIP;68ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R902 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R903 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R904 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R917 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R918 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R919 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R934 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R943 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R906 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R908 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R909 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | RA407 | 2011-001001 | R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6 | 1 | SA |
|4 | RA408 | 2011-001001 | R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6 | 1 | SA |
|4 | RA409 | 2011-001001 | R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6 | 1 | SA |
|4 | RA410 | 2011-001001 | R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6 | 1 | SA |
|4 | RA411 | 2011-001001 | R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6 | 1 | SA |
|4 | C106 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C107 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C108 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C136 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C143 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C163 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C175 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C176 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C179 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C183 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C186 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C190 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C193 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C217 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C607 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C609 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C615 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C620 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C874 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C910 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C918 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C919 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C965 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C182 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C189 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C208 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C209 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C502 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C503 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C504 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C900 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C901 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C907 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C908 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C922 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C180 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C181 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C187 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C188 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | C200 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C205 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C245 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C248 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C470 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C500 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C809 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C811 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C836 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C846 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C838 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C885 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C895 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C954 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C955 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C956 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C967 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C202 | 2203-000491 | C-CER,CHIP;2.2nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C611 | 2203-000491 | C-CER,CHIP;2.2nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C612 | 2203-000491 | C-CER,CHIP;2.2nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C415 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C416 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C236 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C237 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C911 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C913 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C902 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C903 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C904 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C905 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C906 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C934 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C964 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C204 | 2203-000888 | C-CER,CHIP;4.7nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C207 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C427 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C430 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C431 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C432 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C433 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C434 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C831 | 2203-001103 | C-CER,CHIP;6.8nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C614 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C617 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C618 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C621 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C206 | 2203-001607 | C-CER,CHIP;0.22nF,5%,50V,NP0,1608 | 1 | SA |
|4 | C963 | 2203-001607 | C-CER,CHIP;0.22nF,5%,50V,NP0,1608 | 1 | SA |
|4 | C616 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C619 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C624 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C625 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C520 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | SA |
|4 | C211 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C401 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C402 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C403 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C404 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C406 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C407 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C408 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C409 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C410 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C413 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C417 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C418 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C419 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C420 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C422 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C423 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C424 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C425 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C426 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|---|------|--------|
|4 | C467 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C501 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C525 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C527 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C528 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C531 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C532 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C534 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C803 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C806 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C807 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C808 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C815 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C816 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C817 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C818 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C821 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C824 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C830 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C835 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C837 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C840 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C841 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C851 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C852 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C853 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C854 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C875 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C876 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C877 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C884 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C950 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C951 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C952 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C953 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C960 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C961 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C962 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C968 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C969 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C833 | 2203-005015 | C-CER,CHIP;150nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C101 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C102 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C450 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C451 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C600 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C603 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C832 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C921 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C966 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C203 | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C405 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | SA</ |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | C800 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C801 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C804 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C810 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C814 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C825 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C871 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C872 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C957 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C802 | 2402-001059 | C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6 | 1 | SA |
|4 | C110 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | SA |
|4 | C184 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | SA |
|4 | C191 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | SA |
|4 | C100 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C114 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C135 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C192 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C105 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C109 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C111 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C178 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C201 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C604 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C606 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C608 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C613 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C622 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C805 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C819 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C822 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C827 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C828 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C522 | 2402-001129 | C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM | 1 | SA |
|4 | C623 | 2402-001129 | C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM | 1 | SA |
|4 | C212 | 2402-001149 | C-AL,SMD;22UF,20%,16V,-,TP,5X5.8MM | 1 | SA |
|4 | C510 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C511 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C513 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C515 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C516 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C519 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C605 | 2402-001183 | C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM | 1 | SA |
|4 | C839 | 2402-001185 | C-AL,SMD;2.2UF,20%,50V,WT,TP,4.3X4.3X6MM | 1 | SA |
|4 | C842 | 2402-001185 | C-AL,SMD;2.2UF,20%,50V,WT,TP,4.3X4.3X6MM | 1 | SA |
|4 | C210 | 2402-001216 | C-AL,SMD;470uF,20%,16V,WT,TP,10.3x10.3x1 | 1 | SA |
|4 | C880 | 2402-001230 | C-AL,SMD;2.2uF,;¼20%,35V,WT,TP,3*5.2 | 1 | SA |
|4 | C883 | 2402-001230 | C-AL,SMD;2.2uF,;¼20%,35V,WT,TP,3*5.2 | 1 | SA |
|4 | C213 | 2402-001238 | C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm | 1 | SA |
|4 | C185 | 2409-001065 | C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,- | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000222 | INDUCTOR-SMD;560nH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000398 | INDUCTOR-SMD;10uH,10%,3225 | 1 | SA |
|4 | T0052 | 2703-000398 | INDUCTOR-SMD;10uH,10%,3225 | 1 | SA |
|4 | T0052 | 2703-000398 | INDUCTOR-SMD;10uH,10%,3225 | 1 | SA |
|4 | T0052 | 2703-000417 | INDUCTOR-SMD;220uH,5%,3225 | 1 | SA |
|4 | T0052 | 2703-001426 | INDUCTOR-SMD;680uH,20%,7070 | 1 | SA |
|4 | T0052 | 2703-002327 | INDUCTOR-SMD;3.9uH,5%,3225 | 1 | SA |
|4 | X400 | 2801-003667 | CRYSTAL-SMD;14.31818MHZ,30ppm,28-AAN,16, | 1 | SA |
|4 | X800 | 2801-003804 | CRYSTAL-SMD;24.576MHZ,30PPM,28-AAN,20PF, | 1 | SA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,4 | 1 | SNA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|-----------|-------------|--|-------|--------|
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;600OHM,4516,6000,TP,700OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;600OHM,4516,6000,TP,700OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;600OHM,4516,6000,TP,700OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;600OHM,4516,6000,TP,700OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001404 | BEAD-SMD;30ohm,2012,5000mA,TP,,,0.01ohm | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | CM601 | 3711-005291 | HEADER-BOARD TO CABLE;BOX,2P,1R,2MM,SMD- | 1 | SA |
|4 | CM600 | 3711-005292 | HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD- | 1 | SA |
|4 | CM907 | 3711-005471 | HEADER-BOARD TO CABLE;BOX,12P,1R,1.25mm, | 1 | SA |
|4 | CM906 | 3711-005472 | HEADER-BOARD TO CABLE;BOX,20P,1R,1.25mm, | 1 | SA |
|4 | CM905 | 3711-005543 | HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S | 1 | SA |
|4 | T0010 | BN27-00009A | COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-.0. | 1 | SA |
|4 | T0010 | BN27-00009A | COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-.0. | 1 | SA |
|4 | T0077 | BN41-00641A | PCB MAIN;Venice Plus,FR-4,4,1.0,1.6,160" | 1 | SNA |
|4 | M0018 | BN97-00648A | ASSY MICOM;PL15KU,20050519,TDA15001H,PHI | 1 | SA |
|5 | T0119 | BN09-00013A | IC MICOM;TDA15001H-MTP,MANET,128,5.5V,24 | 1 | SA |
|4 | R210 | 2007-001139 | R-CHIP;7.5Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | C610 | 2402-001218 | C-AL,SMD;22UF,20%,35V,WT,TP,6.6X6.6X5.8M | 1 | SA |
|3 | FT206 | 2904-001107 | FILTER-SAW AV;45.75MHz,SIP5K,TP,12.6dB,N | 1 | SA |
|3 | FT205 | 2904-001418 | FILTER-SAW AV;45.75MHZ,-,ST,-,-,- | 1 | SA |
| 1 | M0019 | BN92-00920B | ASSY LABEL;MU15EO | 1 | SNA |
| 1 | M0003 | BN92-01319V | ASSY BOX;LN15S51BPX/XAX,PL15KU | 1 | SNA |
| ..2 | M0120 | BH75-10529A | UNIT-HANDLE PACKING;LXA410TLMU,PE,-,WHIT | 1 | SNA |
| ...3 | M0103 | BN72-60001A | LEVER-TOP;LSD210TL,PE-LD,WHITE,TFT_LCD | 1 | SNA |
| ...3 | M0102 | BN72-60002A | LEVER-BOTTOM;LSD210TL,PE-LD,WHITE,TFT-LC | 1 | SNA |
| ..2 | T0130 | BN69-00986A | BOX-00,SET;SP15UO,SW4,YEL,A1,L565"W443"H | 1.01 | SNA |
| 1 | M0113 | BN92-01320A | ASSY P/MATERIAL;SP15 | 1 | SNA |
| ..2 | T0376 | 6902-000379 | BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,- | 0.002 | SNA |
| ..2 | T0524 | 6902-000520 | BAG PE;HDPE/NITRON(DOUBLE),T0.015/T0.5(D | 1 | SNA |
| ..2 | P/M | 6902-000604 | BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP, | 1.1 | SNA |
| 1 | M0045 | BN92-01393T | ASSY ACCESSORY;LN15S51BPX/XAX,PL15KU,SP1 | 1 | SNA |
| ..2 | T0074 | BN59-00429A | REMOCON;TM79,Single Micom,34,EX,NT,EX,VE | 1 | SA |
| ..2 | T0156 | BN68-00797A | MANUAL-01,WARRANT CARD;SAMES BASIC ALL,M | 1 | SNA |
| ..2 | M0045 | BN96-00619U | ASSY ACCESSORY;MU15UO | 1 | SA |
| ...3 | T0524 | 6902-000110 | BAG PE;LDPE,T0.05,W250,L400,TRP,28,2 | 1 | SNA |
| ...3 | T0268 | 3903-000085 | CBF-POWER CORD;DT,US,BP3/YES,(IEC C13/C | 1 | SA |
| ..2 | | BN96-02016A | ASSY BRACKET P-WALL;15S5 | 1 | SNA |
| ...3 | CIS | 6902-000128 | BAG ZIPPER;LDPE,T0.05,W200,L150,TRP,8,2- | 1 | SNA |
| ...3 | T0101 | BN61-01162A | BRACKET-WALL;VE15,SECC,2,0 | 1 | SA |
| ...3 | M0596 | BN68-00850A | MANUAL USERS-00;COMM,SAMSUNG,E,ALL,ART P | 1 | SNA |
| ...3 | M0596 | BN68-00850C | MANUAL USERS-00;COMM,SAMSUNG,E,ALL,ART P | 1 | SNA |
| ...3 | M0132 | BN96-01272A | ASSY MISC P-SCREW;VE15UO | 1 | SNA |
| ..2 | M0045 | BN96-02579D | ASSY ACCESSORY;LN15S51BPX/XAX,PL15KU,PL2 | 1 | SA |
| ...3 | T0524 | 6902-000110 | BAG PE;LDPE,T0.05,W250,L400,TRP,28,2 | 1 | SNA |
| ...3 | T0610 | AA68-03242F | MANUAL-SAFETY GUIDE;All Model,SEC,Eng/Fr | 1 | SNA |
| ...3 | M0596 | BN68-00940B | MANUAL USERS-00;COMM,SAMSUNG,ENG,SPA,FRE | 1 | SNA |
| ...3 | ACCESSORY | BP68-00515A | MANUAL-REGISTRATION CARD;PRC CARD,SAMSUN | 1 | SNA |

6-2 LN20S51BP

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|----------------|--|------|--------|
| 0 | | LN20S51BPX/XAX | LN20S51BP,A21V/20A82-GPL,20,LCD-TV,MEXIC | 0 | |
| 1 | M0001 | BN90-00707A | ASSY COVER FRONT;SP20UO | 1 | SNA |
| ..2 | T0003 | BN96-01625A | ASSY COVER P-FRONT;SP20UO,ABS,V0,GR70,SV | 1 | SA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 3 | SNA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 1 | SNA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 2 | SNA |
| ...3 | M0081 | 6003-001467 | SCREW-TAPTITE;PWH,+,B,M3,L10,ZPC(YEL) | 4 | SNA |
| ...3 | M2893 | BN39-00613A | LEAD CONNECTOR;SPARTA,UL1061#28,UL/CSA,1 | 1 | SA |
| ...3 | MASK | BN63-01151A | FELT-NON WOVEN;MM17NS,T0.5,393,10,BLACK | 2 | SNA |
| ...3 | M0112 | BN63-01609A | COVER-FRONT;SP20,ABS,V0,GR70,SV012P | 1 | SNA |
| ...3 | T0750 | BN63-01741A | COVER-MASK;SP20UO,HIPS,V0,BK500,BKM1143 | 1 | SNA |
| ...3 | T0057 | BN64-00207A | BADGE-BRAND;POSEIDON,AL,T1.5,8.5,50,BLK, | 1 | SNA |
| ...3 | M0007 | BN64-00330A | KNOB-FUNCTION;SPARTA,ABS,HB,BK07,HI-GLOS | 1 | SNA |
| ...3 | T0175 | BN96-01689A | ASSY SPEAKER P;16OHM,RIGHT,3W,650MM,SPAR | 1 | SA |
| ...3 | T0175 | BN96-01690A | ASSY SPEAKER P;16OHM,LEFT,3W,250MM,SPART | 1 | SA |
| ...3 | M0145 | BN96-01883A | ASSY BOARD P-FUNCTION;SPARTA,CT5000-3240 | 1 | SA |
| ...3 | T0714 | BN96-01884A | ASSY BOARD P-IR;SPARTA,CT5000-3250,IR BO | 1 | SA |
| ...3 | T0382 | BP61-00509C | HOLDER-CARE;PJT,ACRYL-FOAM,T0.25,W20.0mm | 0.28 | SNA |
| ...3 | T0299 | BN64-00370A | WINDOW-RMC LED;SP20UO,ACRYL,DIFFUSIVE | 1 | SNA |
| ...3 | T0069 | AA60-00091J | SPACER-FELT;-FELT,330X10,-,-,BLK,T0.5,- | 2 | SNA |
| ...3 | T0069 | AA63-60001E | SPACER-FELT;-FELT,-,-,-,BLK,0.5,-,55X15 | 1 | SNA |
| ...3 | MASK | BN63-01151C | FELT-NON WOVEN;SP20UO,FELT,T0.5,5,450 | 2 | SNA |
| ...3 | KNOB | BN63-01151D | FELT-NON WOVEN;SP20UO,FELT,T0.5,10,90 | 2 | SNA |
| ...3 | MASK | BN63-01151D | FELT-NON WOVEN;SP20UO,FELT,T0.5,10,90 | 2 | SNA |
| 1 | M0002 | BN90-00708A | ASSY COVER REAR;SP20UO | 1 | SNA |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 2 | SNA |
| ..2 | M0013 | BN96-01624A | ASSY COVER P-REAR;SP20UO,HIPS,V0,GR86 | 1 | SA |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 1 | SNA |
| ...3 | M0114 | BN61-01576A | HOLDER-WIRE;SP20,HIPS,V0,GR86 | 1 | SNA |
| ...3 | | BN63-01178H | COVER-INLAY;SPUO,PC SHEET,T0.5,SPARTA | 1 | SNA |
| ...3 | M0006 | BN63-01610A | COVER-REAR;SP20UO,HIPS,V0,GR86 | 1 | SNA |
| ...3 | T0069 | AA63-60131A | SPACER-FELT;SVP403J,FELT,-,-,-,BLK,T0.5, | 1 | SNA |
| ...3 | T0067 | BP60-00061Q | SPACER-SCREEN;SP20UO,SPONGE,35,T2.0,20,E | 2 | SNA |
| ...3 | T0069 | AA63-60001Z | SPACER-FELT;-FELT,-,-,-,BLK,T1.0,-,35X8 | 1 | SNA |
| 1 | M0216 | BN90-00709A | ASSY STAND;SP20 | 1 | SNA |
| ..2 | M0081 | 6003-001324 | SCREW-TAPTITE;BH,+,B,M4,L16,NI PLT,SWRCH | 4 | SNA |
| ..2 | M0045 | BN96-01626A | ASSY STAND P-SET;SPARTA 20,HIPS,HB,GR86, | 1 | SA |
| ...3 | M0081 | 6003-001001 | SCREW-TAPTITE;FH,+,B,M3,L8,ZPC(BLK),SWRC | 5 | SNA |
| ...3 | | BN61-01465A | BRACKET-STAND BOTTOM;SP20CO,SECC,T1.0 | 1 | SNA |
| ...3 | M0111 | BN63-01611A | COVER-STAND;SP20,HIPS,HB,GR86,SV012P | 1 | SNA |
| ...3 | | BN63-01612A | COVER-STAND SUB;SP20,ABS,HB,GR86,SV012P | 1 | SNA |
| ...3 | | BN64-00333A | KNOB-LOCKING;SPARTA,ABS,HB,GR86,SVM3012 | 1 | SNA |
| ...3 | T0132 | BN73-60002C | RUBBER FOOT;VENICE 15",RUBBER,DIA 14,1.0 | 4 | SNA |
| ...3 | T0022 | BN96-01627A | ASSY HINGE P-SIMPLE;SP20 | 1 | SNA |
| ...3 | M0081 | 6003-001324 | SCREW-TAPTITE;BH,+,B,M4,L16,NI PLT,SWRCH | 4 | SNA |
| ...3 | T0069 | AA63-60001U | SPACER-FELT;-FELT,-,-,-,BLK,T0.5,-,150X | 1 | SNA |
| 1 | | BN91-00407J | ASSY LCD-ATZ;VE20UO | 1 | SNA |
| ..2 | M0215 | BN07-00177A | LCD-PANEL;A201SN01,GY,8bit,448*347*23,16 | 1 | SA |
| 1 | M0112 | BN91-00844J | ASSY SHIELD;LNR2050PX/XAA,PU20KU | 1 | SNA |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 5 | SNA |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 4 | SNA |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101 | 6 | SNA |
| ..2 | M0081 | 6003-001439 | SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL) | 1 | SNA |
| ..2 | M0174 | BN44-00115B | IP BOARD;IP-51135T(A),VENICE 20",4.0MA,6 | 1 | SA |
| ..2 | | BN61-01323A | HOLDER-INVERTER WIRE;VE20,ABS V0,T2.0 | 2 | SNA |
| ..2 | | BN96-01874B | ASSY SHIELD P-PANEL;SP20,SECC,T1.0,PLUS, | 1 | SNA |
| ...3 | M0162 | 6502-001067 | CABLE CLAMP;DAFC-1300,ID2.2,T5.2,NYLING/ | 1 | SNA |
| ...3 | T0069 | AA60-00073A | SPACER-FELT;54J8,FELT,-,-,-,T1.0,-,210 | 1 | SNA |
| ...3 | T0514 | BN61-01596A | BRACKET-SUPPORT;SP20UO,SECC,T1.0 | 1 | SNA |
| ...3 | M0125 | BN63-01613A | SHIELD-PANEL;SP20CO,SECC,T1.0,AU | 1 | SNA |
| ...3 | M0131 | AA63-01311A | GASKET;LNR2050P,Conductive Fabric,0.14mm | 1 | SNA |
| ..2 | T0069 | BP60-00015E | SPACER-FELT;L6,FELT,400,BLK,T0.5,30 | 1 | SNA |
| ..2 | C0104 | 3809-001761 | CABLE-FLAT;30V,80jE,110mm,50P,0.5mm,UL28 | 1 | SA |
| 1 | M0017 | BN91-00940C | ASSY CHASSIS;LTP2045P,NEW | 1 | SA |
| ..2 | M0014 | BN94-00747C | ASSY PCB MAIN;LTP2045P,PL20KU | 1 | SA |
| ...3 | T0245 | 0202-001366 | SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb, | 0.03 | SNA |
| ...3 | Q802 | 0501-000321 | TR-SMALL SIGNAL;KSB1116-Y,PNP,750mW,TO-9 | 1 | SA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|---|------|--------|
| ...3 | Q804 | 0501-000321 | TR-SMALL SIGNAL;KSB1116-Y,PNP,750mW,TO-9 | 1 | SA |
| ...3 | CN908 | 3701-001294 | CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU | 1 | SA |
| ...3 | CN906 | 3705-001329 | CONNECTOR-COAXIAL;NT(F),ADAPTOR,-,75ohm, | 1 | SA |
| ...3 | CN100 | 3711-004712 | HEADER-BOARD TO CABLE;BOX;9P,1R,2mm,STRA | 1 | SA |
| ...3 | CN900 | 3722-000158 | JACK-PIN;1P,3.4mm,SN,YEL,- | 1 | SA |
| ...3 | CN909 | 3722-001061 | JACK-PHONE;1P,3.6PI,AG,BLK,N | 1 | SA |
| ...3 | CN903 | 3722-001734 | JACK-VHS;4P,-,SN,BLK,- | 1 | SA |
| ...3 | CN913 | 3722-001846 | JACK-PIN;2P,8.3MM,AU,WHT/RED,- | 1 | SA |
| ...3 | CN901 | 3722-002143 | JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI | 1 | SA |
| ...3 | CIS3 | BN40-00069A | TUNER;TECH1840PG31A(S),TECH1840PG31A(S), | 1 | SA |
| ...3 | T0174 | BN97-00647C | ASSY SMD;LTP2045P,NEW | 1 | SNA |
| ...4 | CIS5 | 0202-001375 | SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36. | 3.82 | SNA |
| ...4 | D202 | 0401-000133 | DIODE-SWITCHING;RLS4148,75V,150mA,LL-34, | 1 | SA |
| ...4 | D200 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D600 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D908 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D909 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D910 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D929 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D948 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D949 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO | 1 | SA |
| ...4 | D203 | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3 | 1 | SA |
| ...4 | D204 | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3 | 1 | SA |
| ...4 | D101 | 0402-000553 | DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA | 1 | SA |
| ...4 | D102 | 0402-000553 | DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA | 1 | SA |
| ...4 | D912 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D913 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D914 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D915 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D916 | 0403-000258 | DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2 | 1 | SA |
| ...4 | D904 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D918 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D920 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D928 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200MW,SOT | 1 | SA |
| ...4 | D603 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D604 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D605 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D606 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D900 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D901 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D902 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D903 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D905 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D906 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D921 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D922 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D923 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D924 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D925 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D926 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D927 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D935 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D937 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D938 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D939 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D945 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D946 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | D947 | 0403-001052 | DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2 | 1 | SA |
| ...4 | ZD101 | 0403-001411 | DIODE-ZENER;- ,5.49-5.73V,200MW,SOD-323,T | 1 | SA |
| ...4 | ZD102 | 0403-001411 | DIODE-ZENER;- ,5.49-5.73V,200MW,SOD-323,T | 1 | SA |
| ...4 | ZD103 | 0403-001411 | DIODE-ZENER;- ,5.49-5.73V,200MW,SOD-323,T | 1 | SA |
| ...4 | D201 | 0403-001425 | DIODE-ZENER;BZX84C33,31-35V,350MW,SOT-23 | 1 | SA |
| ...4 | D602 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | SA |
| ...4 | D601 | 0407-000123 | DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT- | 1 | SA |
| ...4 | D917 | 0407-000123 | DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT- | 1 | SA |
| ...4 | Q801 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23 | 1 | SA |
| ...4 | Q200 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q600 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q601 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q602 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q603 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q809 | 0501-000344 | TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT- | 1 | SA |
| ...4 | Q803 | 0501-000727 | TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23, | 1 | SA |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | Q805 | 0501-000727 | TR-SMALL SIGNAL;BC848C,NPN,310mW,SOT-23, | 1 | SA |
|4 | Q100 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q101 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q201 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q203 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q500 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q501 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q502 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q604 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q808 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q900 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q901 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | SA |
|4 | Q409 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0. | 1 | SA |
|4 | Q409 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0. | 1 | SA |
|4 | Q409 | 0505-001170 | FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0 | 1 | SA |
|4 | IC104 | 0801-002267 | IC-CMOS LOGIC;74LCX14,-,SOIC,14P,150MIL, | 1 | SA |
|4 | IC106 | 1001-001082 | IC-VIDEO SWITCH;BA7657F,-,SOP,24P,300MIL | 1 | SA |
|4 | IC109 | 1003-001826 | IC-LCD CONTROLLER;TSU396AWJ-LF,PQFP,128P | 1 | SA |
|4 | IC112 | 1103-000129 | IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5 | 1 | SA |
|4 | IC112 | 1103-001314 | IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2.7/5. | 1 | SA |
|4 | T0085 | 1201-001495 | IC-AUDIO AMP;7050,SOP,8P,150MIL,DUAL,26D | 1 | SA |
|4 | T0085 | 1201-001980 | IC-AUDIO AMP;TDA7266D,SO,20P,16X11.1MM,- | 1 | SA |
|4 | T0087 | 1203-001488 | IC-POSIFIXED REG.;7805,TO-252,3P,-,PLAS | 1 | SA |
|4 | T0087 | 1203-001816 | IC-POSIFIXED REG.;78M08,TO-252,3P,-,PLA | 1 | SA |
|4 | T0087 | 1203-002842 | IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P | 1 | SA |
|4 | T0087 | 1203-002842 | IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P | 1 | SA |
|4 | T0087 | 1203-002844 | IC-POSIFIXED REG.;AP1117D-18A,TO-252-3L | 1 | SA |
|4 | IC108 | 1203-003015 | IC-DC/DC CONVERTER;MP1410ES,SOIC,8P,4.9x | 1 | SA |
|4 | IC110 | 1203-003015 | IC-DC/DC CONVERTER;MP1410ES,SOIC,8P,4.9x | 1 | SA |
|4 | R944 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R948 | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R949 | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | 20INCH | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | NT | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R100 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R205 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R207 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R208 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R252 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R253 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R311 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R801 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R844 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R849 | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R884 | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R203 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R204 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R602 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R603 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R628 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R803 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R804 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R805 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R807 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R808 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R809 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R810 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R811 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R812 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R813 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R814 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R815 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R816 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R817 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R818 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R819 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R820 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R821 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R822 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R823 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R836 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R839 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R858 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|---------------------------------|------|--------|
|4 | R859 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R878 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R879 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R882 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R890 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R894 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R895 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R905 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R907 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R910 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R945 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R950 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R951 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R952 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R956 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R957 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R962 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R200 | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R415 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R416 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R975 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R231 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R233 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R237 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R238 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R410 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R411 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R412 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R604 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R611 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R619 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R623 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R828 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R888 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R889 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R913 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R931 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R932 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R229 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R230 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R235 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R236 | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R511 | 2007-000080 | R-CHIP;2Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R624 | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R625 | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R228 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R234 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R402 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R408 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R409 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R600 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R601 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R607 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R609 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R614 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R615 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R626 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R800 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R802 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R860 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R861 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R880 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R881 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R885 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R900 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R901 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R911 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R912 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R914 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R924 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R927 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R928 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R929 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|---------------------------------|------|--------|
|4 | R930 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R946 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R173 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R114 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R174 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R209 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R404 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R405 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R406 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R407 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R515 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R605 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R606 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R608 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R610 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R627 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R873 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R876 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R915 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R916 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R921 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R922 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R938 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R947 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R955 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R971 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R972 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R976 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R167 | 2007-000091 | R-CHIP;12Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R831 | 2007-000091 | R-CHIP;12Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R612 | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R613 | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R616 | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R202 | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R513 | 2007-000100 | R-CHIP;68Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R116 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R120 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R121 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R201 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R853 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R617 | 2007-000103 | R-CHIP;120Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R845 | 2007-000106 | R-CHIP;220Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R509 | 2007-000107 | R-CHIP;470Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R618 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R622 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R933 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R935 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R936 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R937 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R939 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R941 | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R413 | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R851 | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R852 | 2007-000120 | R-CHIP;680ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R973 | 2007-000120 | R-CHIP;680ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R848 | 2007-000130 | R-CHIP;39Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R896 | 2007-000234 | R-CHIP;1.3Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R833 | 2007-000239 | R-CHIP;1.5Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R824 | 2007-000287 | R-CHIP;100OHM,1%,1/10W,TP,1608 | 1 | SA |
|4 | R825 | 2007-000287 | R-CHIP;100OHM,1%,1/10W,TP,1608 | 1 | SA |
|4 | R826 | 2007-000287 | R-CHIP;100OHM,1%,1/10W,TP,1608 | 1 | SA |
|4 | R620 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R621 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R837 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R953 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R954 | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R897 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R925 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R871 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R872 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R874 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R875 | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R926 | 2007-000570 | R-CHIP;220OHM,1%,1/10W,TP,1608 | 1 | SA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | R899 | 2007-000659 | R-CHIP;27ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R169 | 2007-000708 | R-CHIP;3.9Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R832 | 2007-000882 | R-CHIP;4.7ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R171 | 2007-000913 | R-CHIP;43Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R500 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R501 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R502 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R503 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R504 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R505 | 2007-000929 | R-CHIP;470ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R115 | 2007-000939 | R-CHIP;47Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R211 | 2007-000939 | R-CHIP;47Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R168 | 2007-000965 | R-CHIP;5.1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R172 | 2007-000965 | R-CHIP;5.1Kohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R830 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R974 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R829 | 2007-001134 | R-CHIP;68ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R883 | 2007-001134 | R-CHIP;68ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R902 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R903 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R904 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R917 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R918 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R919 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R934 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R943 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | R906 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R908 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | R909 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | SA |
|4 | RA401 | 2011-000002 | R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216 | 1 | SA |
|4 | RA402 | 2011-000002 | R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216 | 1 | SA |
|4 | RA403 | 2011-000002 | R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216 | 1 | SA |
|4 | RA404 | 2011-000002 | R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216 | 1 | SA |
|4 | RA405 | 2011-000002 | R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216 | 1 | SA |
|4 | RA406 | 2011-000002 | R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216 | 1 | SA |
|4 | RA412 | 2011-001001 | R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6 | 1 | SA |
|4 | C106 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C107 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C108 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C136 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C143 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C163 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C175 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C176 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C179 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C183 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C186 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C190 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C193 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C217 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C468 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C607 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C609 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C615 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C620 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C874 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C910 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C918 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C919 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C965 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | SA |
|4 | C182 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C189 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C208 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C209 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C502 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C503 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C504 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C900 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C901 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C907 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C908 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C922 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C180 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | C181 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C187 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C188 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C200 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C205 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C245 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C248 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C470 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C500 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C809 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C811 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C836 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C846 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C838 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C885 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C895 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C954 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C955 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C956 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C967 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C202 | 2203-000491 | C-CER,CHIP;2.2nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C611 | 2203-000491 | C-CER,CHIP;2.2nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C612 | 2203-000491 | C-CER,CHIP;2.2nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C415 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C416 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C236 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C237 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C911 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C913 | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C902 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C903 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C904 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C905 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C906 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C934 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C964 | 2203-000815 | C-CER,CHIP;0.033nF,5%,50V,C0G,1608 | 1 | SA |
|4 | C204 | 2203-000888 | C-CER,CHIP;4.7nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C207 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C427 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C430 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C431 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C432 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C433 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C434 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,TP,1608 | 1 | SA |
|4 | C831 | 2203-001103 | C-CER,CHIP;6.8nF,10%,50V,X7R,1608 | 1 | SA |
|4 | C614 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C617 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C618 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C621 | 2203-001402 | C-CER,CHIP;220nF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C206 | 2203-001607 | C-CER,CHIP;0.22nF,5%,50V,NP0,1608 | 1 | SA |
|4 | C963 | 2203-001607 | C-CER,CHIP;0.22nF,5%,50V,NP0,1608 | 1 | SA |
|4 | C616 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C619 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C624 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C625 | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C520 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | SA |
|4 | C211 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C401 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C402 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C403 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C404 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C406 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C407 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C408 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C409 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C410 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C413 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C417 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C418 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C419 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C420 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C422 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C423 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |

6 Electrical Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | C424 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C425 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C426 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C501 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C525 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C527 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C528 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C531 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C532 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C534 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C803 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C806 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C807 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C808 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C815 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C816 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C817 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C818 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C821 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C824 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C830 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C835 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C837 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C840 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C841 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C851 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C852 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C853 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C854 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C875 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C876 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C877 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C884 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C950 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C951 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C952 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C953 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C960 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C961 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C962 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C968 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C969 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C833 | 2203-005015 | C-CER,CHIP;150nF,+80-20%,16V,Y5V,1608 | 1 | SA |
|4 | C101 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C102 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C450 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C451 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C600 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C603 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C832 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C921 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |
|4 | C966 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | SA |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|----------|-------------|--|------|--------|
|4 | C882 | 2203-006036 | C-CER,CHIP;680NF,+80-20%,16V,Y5V,TP,1608 | 1 | SA |
|4 | C800 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C801 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C804 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C810 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C814 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C825 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C871 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C872 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C957 | 2203-006170 | C-CER,CHIP;220nF,10%,16V,X7R,1608 | 1 | SA |
|4 | C802 | 2402-001059 | C-AL,SMD;220UF,20%,6.3V,-,TP,6X6.6X6.6 | 1 | SA |
|4 | C110 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | SA |
|4 | C184 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | SA |
|4 | C191 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | SA |
|4 | C100 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C114 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C135 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C192 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C469 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | SA |
|4 | C105 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C109 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C111 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C178 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C201 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C604 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C606 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C608 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C613 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C622 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C805 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C819 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C822 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C827 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C828 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | SA |
|4 | C522 | 2402-001129 | C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM | 1 | SA |
|4 | C623 | 2402-001129 | C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM | 1 | SA |
|4 | C212 | 2402-001149 | C-AL,SMD;22UF,20%,16V,-,TP,5X5.8MM | 1 | SA |
|4 | C510 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C511 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C513 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C515 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C516 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C519 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | SA |
|4 | C605 | 2402-001183 | C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM | 1 | SA |
|4 | C839 | 2402-001185 | C-AL,SMD;2.2UF,20%,50V,WT,TP,4.3X4.3X6MM | 1 | SA |
|4 | C842 | 2402-001185 | C-AL,SMD;2.2UF,20%,50V,WT,TP,4.3X4.3X6MM | 1 | SA |
|4 | C210 | 2402-001216 | C-AL,SMD;470uF,20%,16V,WT,TP,10.3x10.3x1 | 1 | SA |
|4 | C880 | 2402-001230 | C-AL,SMD;2.2uF,i%20%,35V,WT,TP,3*5.2 | 1 | SA |
|4 | C883 | 2402-001230 | C-AL,SMD;2.2uF,i%20%,35V,WT,TP,3*5.2 | 1 | SA |
|4 | C213 | 2402-001238 | C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm | 1 | SA |
|4 | C185 | 2409-001065 | C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,- | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000185 | INDUCTOR-SMD;3.3uH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000222 | INDUCTOR-SMD;560nH,10%,2012 | 1 | SA |
|4 | T0052 | 2703-000398 | INDUCTOR-SMD;10uH,10%,3225 | 1 | SA |
|4 | T0052 | 2703-000398 | INDUCTOR-SMD;10uH,10%,3225 | 1 | SA |
|4 | T0052 | 2703-000398 | INDUCTOR-SMD;10uH,10%,3225 | 1 | SA |
|4 | T0052 | 2703-000417 | INDUCTOR-SMD;220uH,5%,3225 | 1 | SA |
|4 | T0052 | 2703-001426 | INDUCTOR-SMD;680uH,20%,7070 | 1 | SA |
|4 | T0052 | 2703-002327 | INDUCTOR-SMD;3.9uH,5%,3225 | 1 | SA |
|4 | X400 | 2801-003667 | CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16, | 1 | SA |
|4 | X800 | 2801-003804 | CRYSTAL-SMD;24.576MHZ,30PPM,28-AAN,20PF, | 1 | SA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |

6 Electrical Parts List

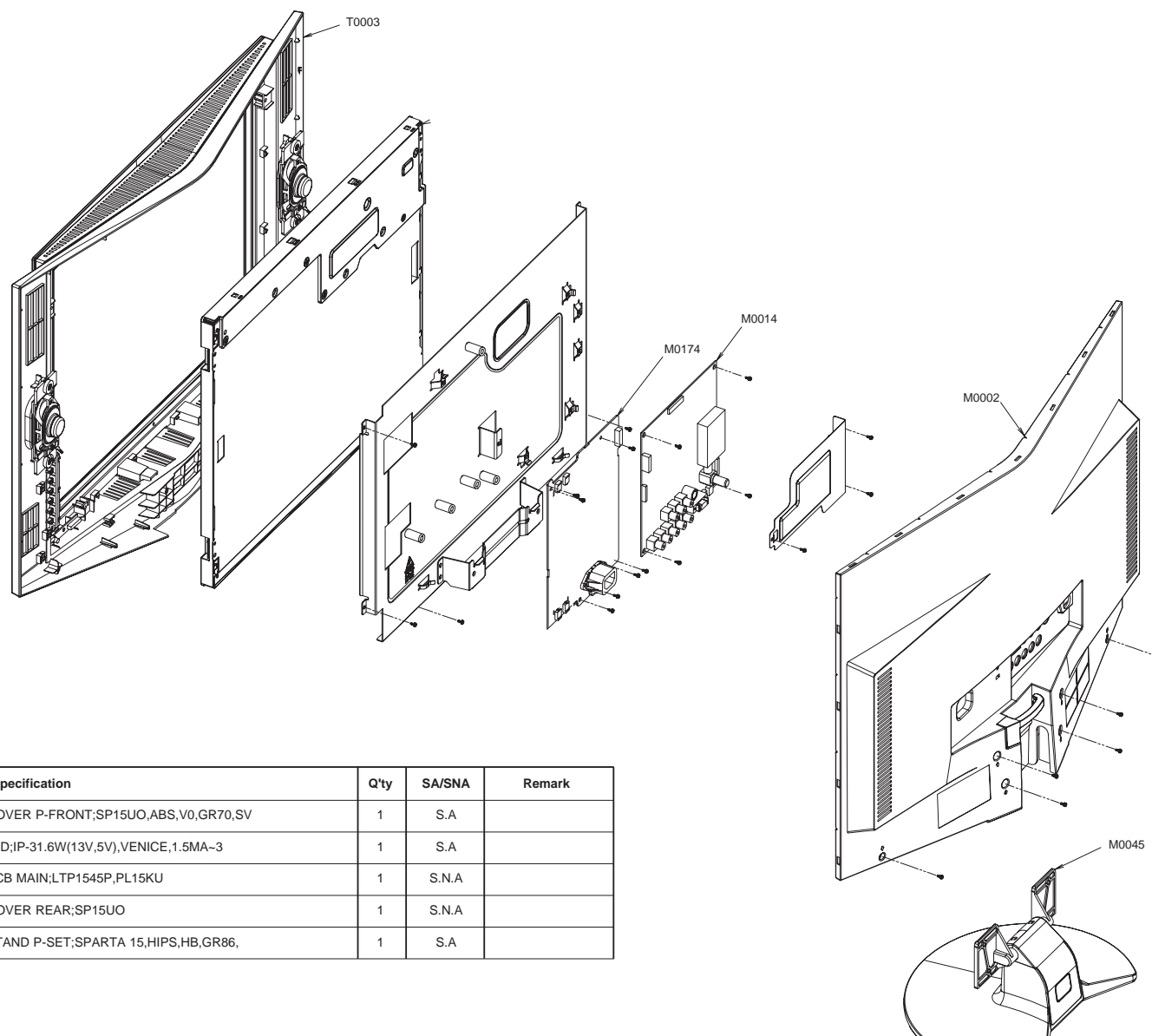
| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|-------|-----------|-------------|--|-------|--------|
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-000314 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4 | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001145 | BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ, | 1 | SNA |
|4 | T0568 | 3301-001404 | BEAD-SMD;30ohm,2012,5000mA,TP,,,0.01ohm | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | T0568 | 3301-001569 | BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90 | 1 | SNA |
|4 | CN402 | 3708-001763 | CONNECTOR-FPC/FFC/PIC;50P,0.5MM,SMD-A,SN | 1 | SA |
|4 | CN601 | 3711-005291 | HEADER-BOARD TO CABLE;BOX,2P,1R,2MM,SMD- | 1 | SA |
|4 | CN600 | 3711-005292 | HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD- | 1 | SA |
|4 | CN907 | 3711-005471 | HEADER-BOARD TO CABLE;BOX,12P,1R,1.25mm, | 1 | SA |
|4 | CN906 | 3711-005472 | HEADER-BOARD TO CABLE;BOX,20P,1R,1.25mm, | 1 | SA |
|4 | CN905 | 3711-005543 | HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S | 1 | SA |
|4 | T0010 | BN27-00009A | COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-,0. | 1 | SA |
|4 | T0010 | BN27-00009A | COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-,0. | 1 | SA |
|4 | T0077 | BN41-00641A | PCB MAIN;Venice Plus,FR-4,1.0,1.6,160" | 1 | SNA |
|4 | M0018 | BN97-00648C | ASSY MICOM;PL20KU,20050519,TDA15001H,PHI | 1 | SA |
|5 | T0119 | BN09-00013A | IC MICOM;TDA15001H-MTP,MANET,128,5.5V,24 | 1 | SA |
|4 | R210 | 2007-001139 | R-CHIP;7.5Kohm,1%,1/10W,TP,1608 | 1 | SA |
|4 | C610 | 2402-001218 | C-AL,SMD;22UF,20%,35V,WT,TP,6.6X6.6X5.8M | 1 | SA |
|3 | FT206 | 2904-001107 | FILTER-SAW AV;45.75MHz,SIP5K,TP,12.6dB,N | 1 | SA |
|3 | FT205 | 2904-001418 | FILTER-SAW AV;45.75MHZ,-,ST,-,-,- | 1 | SA |
| 1 | M0019 | BN92-00920B | ASSY LABEL;MU15EO | 1 | SNA |
| 1 | M0003 | BN92-01317U | ASSY BOX;LN20S51BPX/XAX,PL20KU | 1 | SNA |
| ..2 | T0130 | BN69-00987A | BOX-00,SET;SP20UO,SW4,YEL,A1,W668*D565"H | 1.01 | SNA |
| 1 | M0113 | BN92-01318A | ASSY P/MATERIAL;SP20 | 1 | SNA |
| ..2 | T0376 | 6902-000061 | BAG AIR;LDPE,T0.2,L1000,W500,TRP,,, | 0.014 | SNA |
| ..2 | T0376 | 6902-000379 | BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,- | 0.004 | SNA |
| ..2 | P/M | 6902-000604 | BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP, | 1.7 | SNA |
| ..2 | T0524 | 6902-000358 | BAG PE;HDPE/NITRON(DOUBLE),T0.02/T0.5,W9 | 1 | SNA |
| 1 | M0045 | BN92-01393U | ASSY ACCESSORY;LN20S51BPX/XAX,PL20KU,SP2 | 1 | SNA |
| ..2 | T0074 | BN59-00429A | REMOCON;TM79,Single Micom,34,EX,NT,EX,VE | 1 | SA |
| ..2 | T0156 | BN68-00797A | MANUAL-01,WARRANT CARD;SAMES BASIC ALL,M | 1 | SNA |
| ..2 | M0045 | BN96-00619U | ASSY ACCESSORY;MU15UO | 1 | SA |
|3 | T0524 | 6902-000110 | BAG PE;LDPE,T0.05,W250,L400,TRP,28,2 | 1 | SNA |
|3 | T0268 | 3903-000085 | CBF-POWER CORD;DT,US,BP3/YES,I(IEC C13/C | 1 | SA |
| ..2 | ACCESSORY | BN96-02015A | ASSY BRACKET P-WALL;20S5 | 1 | SNA |
|3 | CIS | 6902-000128 | BAG ZIPPER;LDPE,T0.05,W200,L150,TRP,8,2- | 1 | SNA |
|3 | T0101 | BN61-01162A | BRACKET-WALL;VE15,SECC,2,0 | 1 | SA |
|3 | M0596 | | | | |

5 Exploded View and Parts List

- You can search for updated part codes through ITSELF web site.

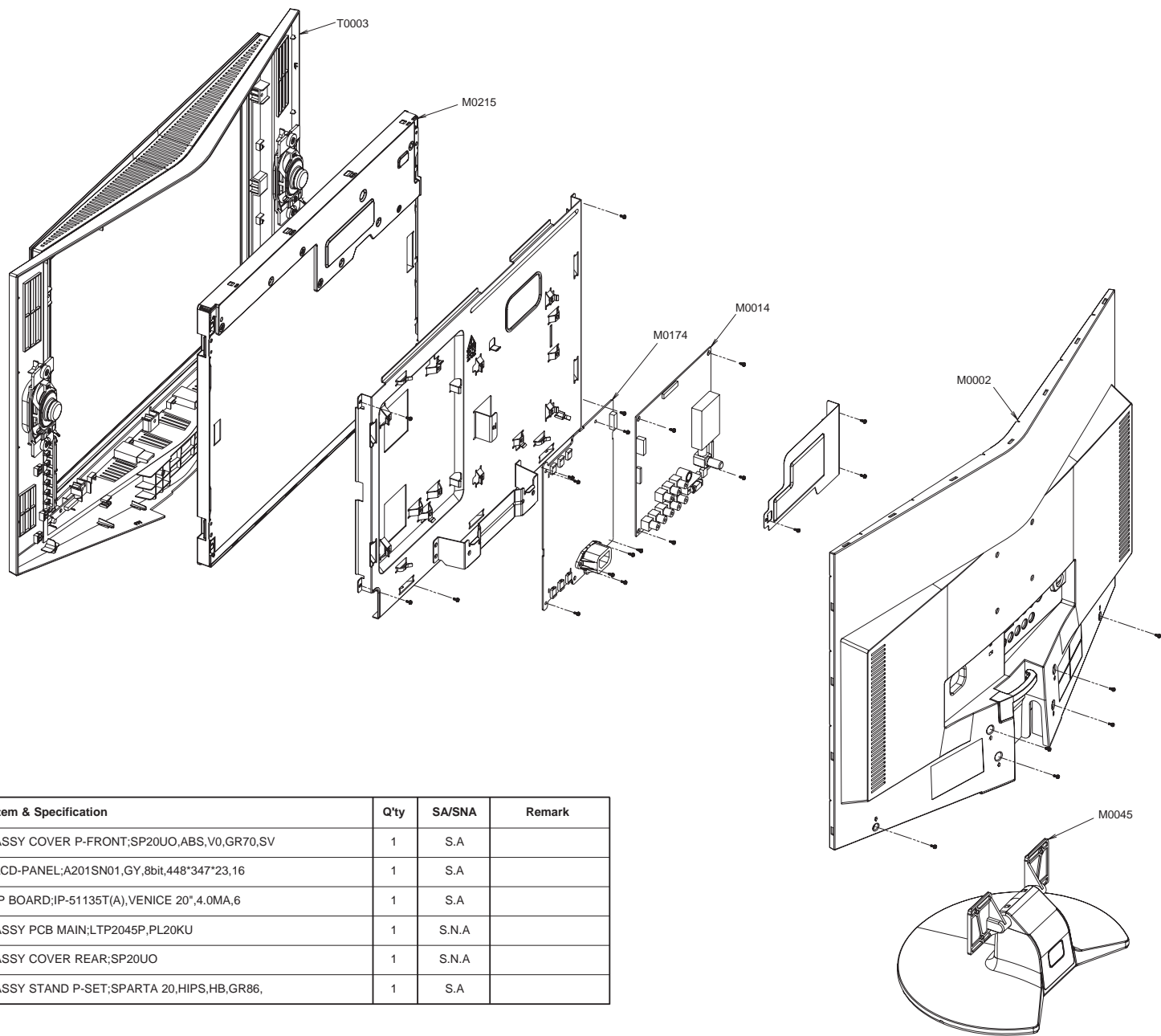
URL : <http://itself.sec.samsung.co.kr/>

5-1 LN15S51BP



| Location | Code.No | Item & Specification | Q'ty | SA/SNA | Remark |
|----------|-------------|--|------|--------|--------|
| T0003 | BN96-01864A | ASSY COVER P-FRONT;SP15UO,ABS,V0,GR70,SV | 1 | S.A | |
| M0174 | BN44-00112A | IP BOARD;IP-31.6W(13V,5V),VENICE,1.5MA-3 | 1 | S.A | |
| M0014 | BN94-00747A | ASSY PCB MAIN;LTP1545P,PL15KU | 1 | S.N.A | |
| M0002 | BN90-00712A | ASSY COVER REAR;SP15UO | 1 | S.N.A | |
| M0045 | BN96-01867A | ASSY STAND P-SET;SPARTA 15,HIPS,HB,GR86, | 1 | S.A | |

5-2 LN20S51BP

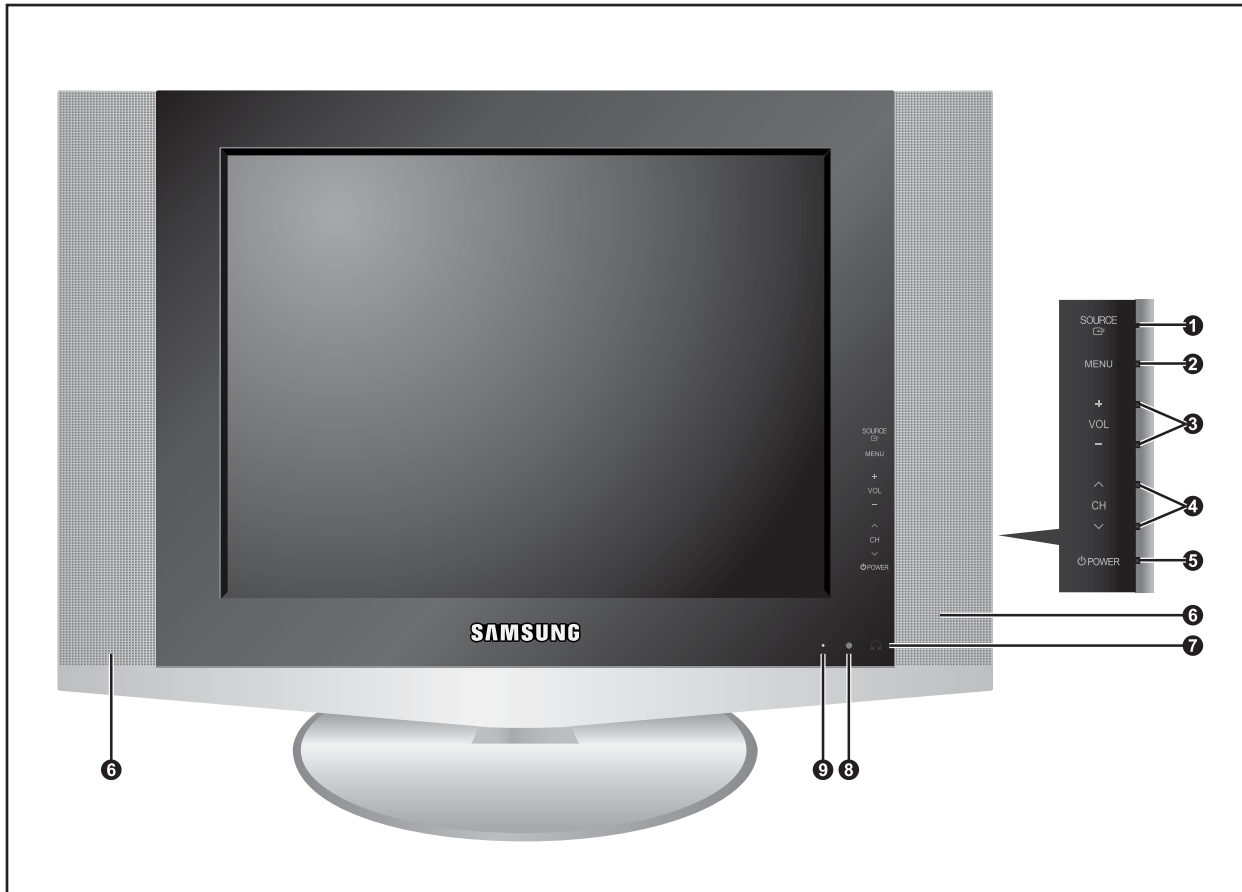


| Location | Code.No | Item & Specification | Q'ty | SA/SNA | Remark |
|----------|-------------|--|------|--------|--------|
| T0003 | BN96-01625A | ASSY COVER P-FRONT;SP20UO,ABS,V0,GR70,SV | 1 | S.A | |
| M0215 | BN07-00177A | LCD-PANEL;A201SN01,GY,8bit,448*347*23,16 | 1 | S.A | |
| M0174 | BN44-00115B | IP BOARD;IP-51135T(A),VENICE 20",4.0MA,6 | 1 | S.A | |
| M0014 | BN94-00747C | ASSY PCB MAIN;LTP2045P,PL20KU | 1 | S.N.A | |
| M0002 | BN90-00708A | ASSY COVER REAR;SP20UO | 1 | S.N.A | |
| M0045 | BN96-01626A | ASSY STAND P-SET;SPARTA 20,HIPS,HB,GR86, | 1 | S.A | |

10 Operating Installations and Installation

10-1 Product Features

10-1-1 Front



1. SOURCE

Displays a menu of all of the available input sources.

Displays a menu of all of the available input sources (TV, AV, S-VIDEO, Component, PC).

You can also use the SOURCE() button on the TV's control panel to make selections.

2. MENU

Press to see an on-screen menu of your TV's features.

3. - VOL +

Press to decrease or increase the volume. Also used to select items on the on-screen menu.

4. ^ CH v

Press to change channels. Also press to highlight various items on the on-screen menu.

5. POWER

Press to turn the TV on and off.

6. SPEAKERS

7. HEADPHONE JACK

Connect a set of external headphones to this jack for private listening.

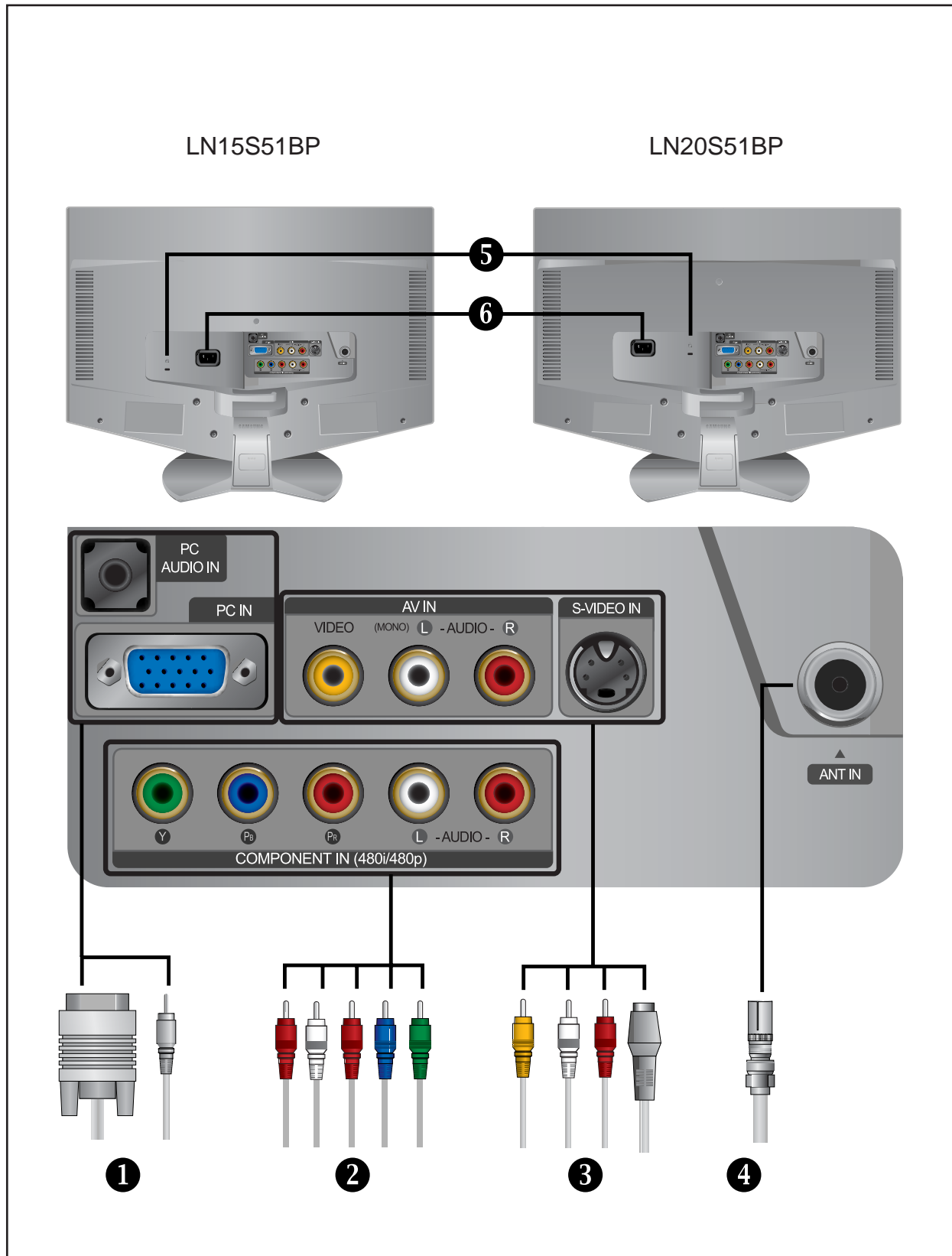
8. REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

9. POWER INDICATOR

Lights up when you turn the power off. (Red light shows in stand-by mode, Red shows when you turn the power on, and light is off after the power is on. Green shows when you set Timer on or off.)

10-1-2 Back



- Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
- When connecting an external device, match the color of the connection terminal to the cable.

1. PC IN

Connect to the video and audio output jack on your PC.

2. COMPONENT IN(480i/480p)

Connect a component video/audio.

3. AV IN

Video and audio inputs for external devices, such as a camcorder or VCR.

S-VIDEO IN

Connect an S-Video signal from a camcorder or VCR.

4. ANT IN

Connect to an antenna or to a cable TV system.

5. KENSINGTON LOCK

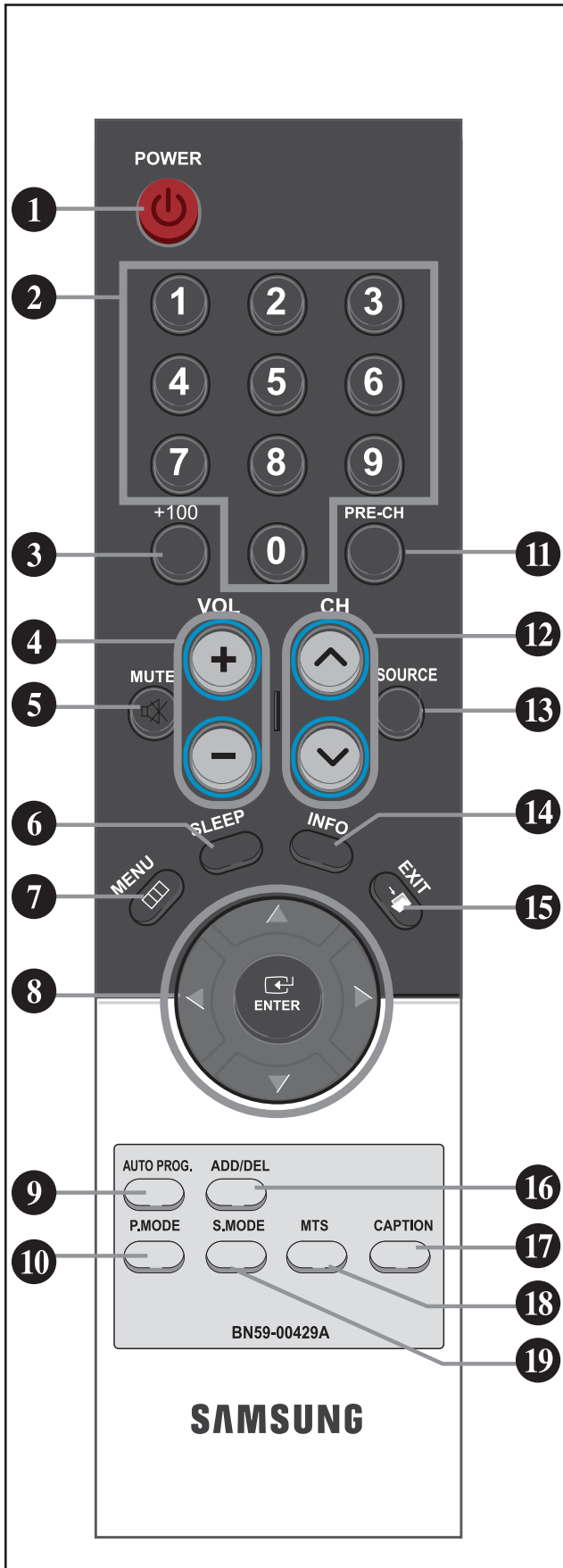
The Kensington lock is a device used to physically fix the system when used in a public place.

For using a locking device, contact where you purchase it.

6. POWER INPUT

Connect the supplied power cord.

10-1-3 Remote Control

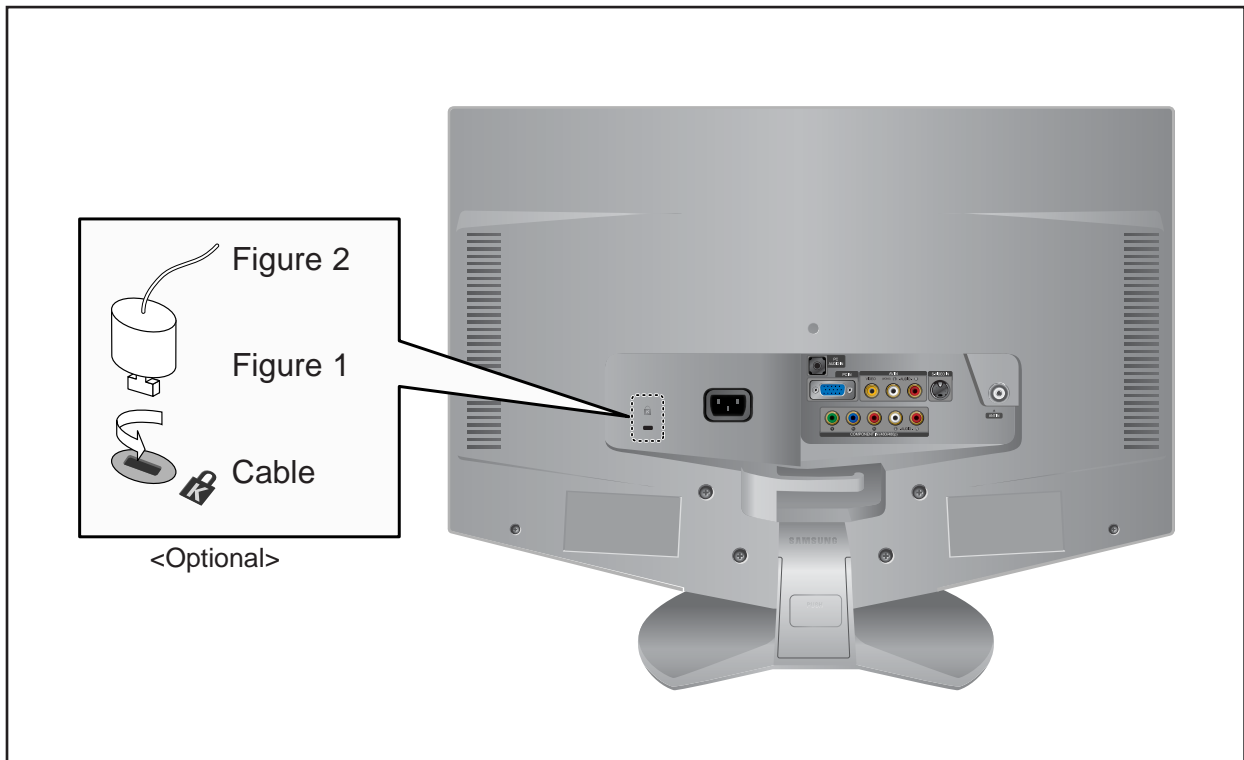


1. Turns the TV on and off.
2. Press to select channels directly on the TV.
3. Press to select channels over 100. For example, to select channel 121, press "+100," then press "2" and "1."±
4. Press to increase or decrease the volume.
5. Press to temporarily cut off the sound.
6. Press to select a time for the TV to turn off automatically.
7. Displays the main on-screen menu.
8. Use to select on-screen menu items and change menu values.
9. Press to automatically store selected TV/Cable channels.
10. Adjust the TV picture by selecting one of the pre set factory settings.
(or selects your personal, customized picture settings)
11. Returns to the previous channel.
12. Press to increase or decrease the volume.
13. Input source selection
14. Use to see information on the current broadcast.
15. Press to exit the on-screen menu.
16. Use to store and delete channels to/from memory.
17. Press to set caption on/off.
18. Press to choose stereo, mono or Separate Audio Program (SAP broadcast).
19. Adjust the TV sound by selecting one of the pre set factory settings.(or selects your personal, customized picture settings)

- The performance of the remote control may be affected by bright light.

10-2 Installation Notes and Precautions

10-2-1 Using the Anti-Theft Kensington Lock



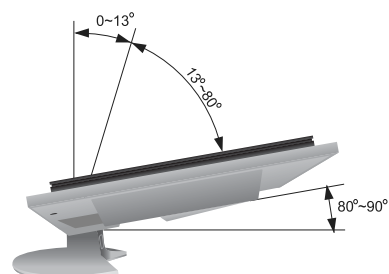
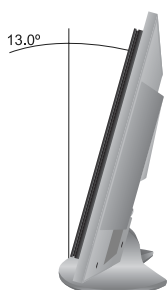
The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
2. Connect the Kensington lock cable.
3. Fix the Kensington lock to a desk or a heavy stationary object.

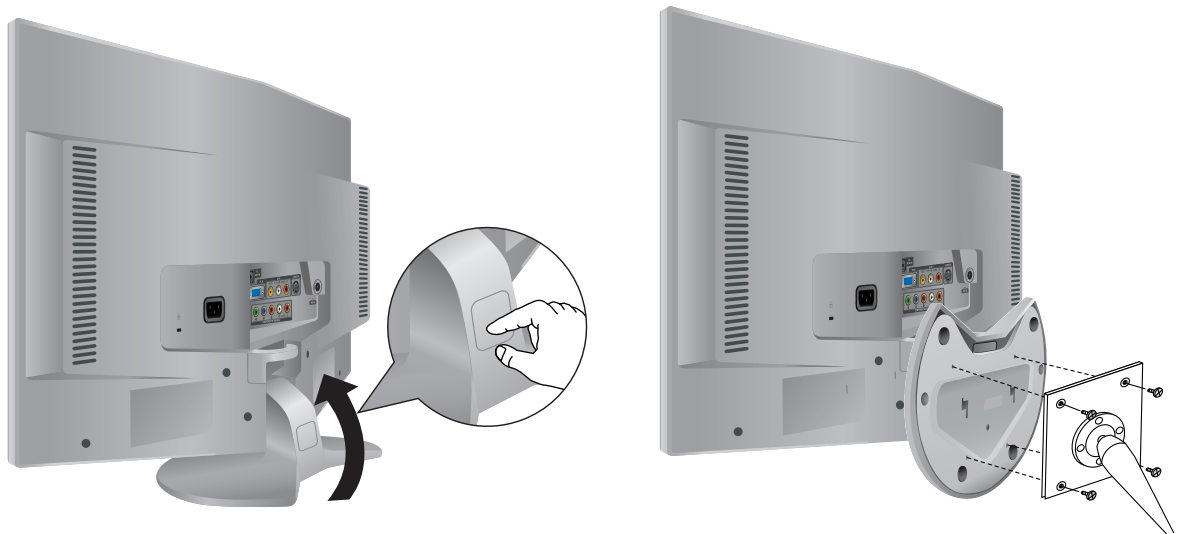
10-2-2 Retractable Stand

Note: The maximum tilt angle is 13 degrees in the backward direction.

Please do not tilt the TV outside the specified range. Using excessive force to tilt the TV may cause permanent damage to the mechanical part of the stand.



10-2-3 Installing VESA compliant mounting devices



- <1> Fold the stand pressing the button on the back of the stand.
- <2> Align the mounting interface pad with the holes in the stand bottom and secure it with the four screws that come with the arm-type base, wall mount hanger or other bases.

Wall Mount Instructions

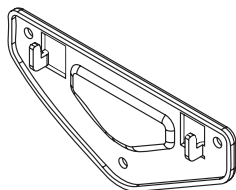
The following instructions apply to a hollow sheet-rock wall only. Tools/Hardware needed - Philips screwdriver, four toggle bolts, 5/8in dia. Drill bit and drill. Contact Ergotron at (800) 888-8458 to purchase the triple pivot direct mount adapter and wall mount bracket kit.

- LN15S51BP (15") : No. 47 - 007 - 099 (Pivot direct mount adapter)
No. 97 - 101 - 003 (Wall mount bracket kit)
- LN20S51BP (20") : No. 47 - 007 - 099 (Pivot direct mount adapter)
No. 97 - 101 - 003 (Wall mount bracket kit)

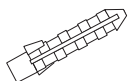
Align the wall mount bracket on the wall at the desired height, making sure that the bracket will be mounted between the wall studs. Mark the four corner openings and drill four 5/8-diameter holes. Assemble the wall mount kit according to the instructions provided with it. Securely attach Ergotron's flat panel, triple pivot direct mount adapter to the back of the TV using the four 4mm, 0.7 pitch x 10mm screws provided with the arm. Secure the assembly to the wall using four 3/16 by 3-inch long toggle bolts.

10-2-4 Installing the Wall Mount Kit

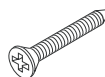
Note : This installation is to be used when attaching the wall mount to a concrete wall.
When attaching to other building materials, please contact your nearest dealer.



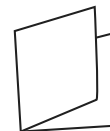
Bracket



Anchors : 3EA



Anchors : 3EA



Installation Guide

How to assemble the Wall Mount Kit

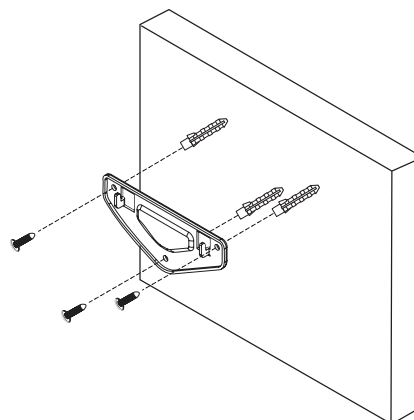
- 1** 1. Mark the location of hole on the wall using installation guide.

2. Make over 35mm- depth- hole on the marked location using 5.0-diameter drill.

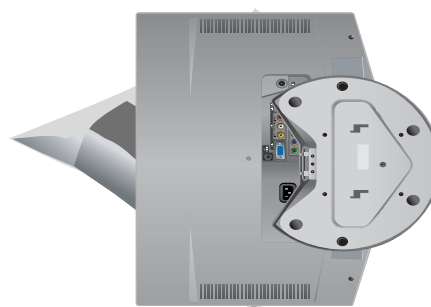
3. Fix anchors on each hole on the wall.

4. Connect bracket to the wall with screws after fitting anchors into the bracket holes.

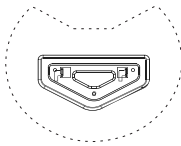
Note : If the bracket is not firmly fixed to the wall, LCD TV can fall off.



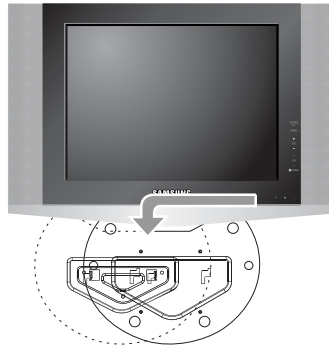
- 2** You may use LCD TV right after fixing it to the wall since stand is wrapped already turned over as shown in the picture below.
- 3** When using LCD TV in stand-based form, place the product on a cushion or other soft materials. Then turn over stand following the arrow direction below only after pressing button on the connected part where LCD TV is attached to stand.
(Turn over stand in the opposite direction after pressing button when using LCD TV in wall-mounted form as well.)



- 4 Adjust LCD TV to the hook on the bracket and move in the direction of the arrow(Left) so that LCD TV can be completely fixed to the bracket.



When bracket is assembled on the wall



How to hang monitor up on a hook



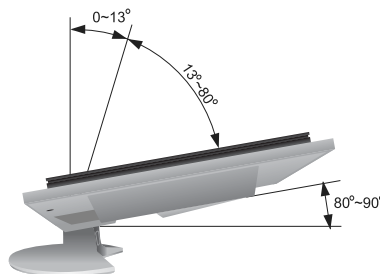
When installation is completed

- 5 Remove Installation Guide after completing setup of LCD TV on the wall.
- 6 Push the LCD TV up and shift to the right to detach it from bracket.
When moving or transferring to other areas, reverse No. 4 procedure so as to disconnect LCD TV with ease.

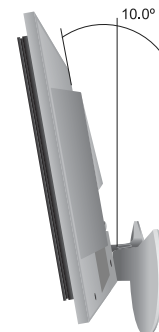
- How to adjust an angle



(1) Angle adjustment section of general stand-based LCD TV



(2) Angle adjustment section while converting the form (1->3, 3->1)



(3) Angle adjustment section of wall-mounted LCD TV

1. Picture (1) shows the adjustment angle ($0^{\circ} \sim 13^{\circ}$) when you use LCD TV in its general form (stand-based LCD TV).
2. Excessive tilting can turn LCD TV over which might cause damage to LCD TV.
Picture (2) shows the adjustment angle ($13^{\circ} \sim 80^{\circ}$) when you convert stand-based LCD TV into wall-mounted one.
3. Picture (3) shows the adjustment angle ($0^{\circ} \sim 10^{\circ}$) when you use wall-mounted LCD TV after fixing it to wall.

Note : Picture (2) shows the angle adjustment section while LCD TV is being converted from stand-based one to wall-mounted one or vice versa.

- Click" sound indicates section change from 1 to 2 or 3 to 2 (1->2, 3->2).

Memo

I/P Board

SCALER
TSU396AWJ

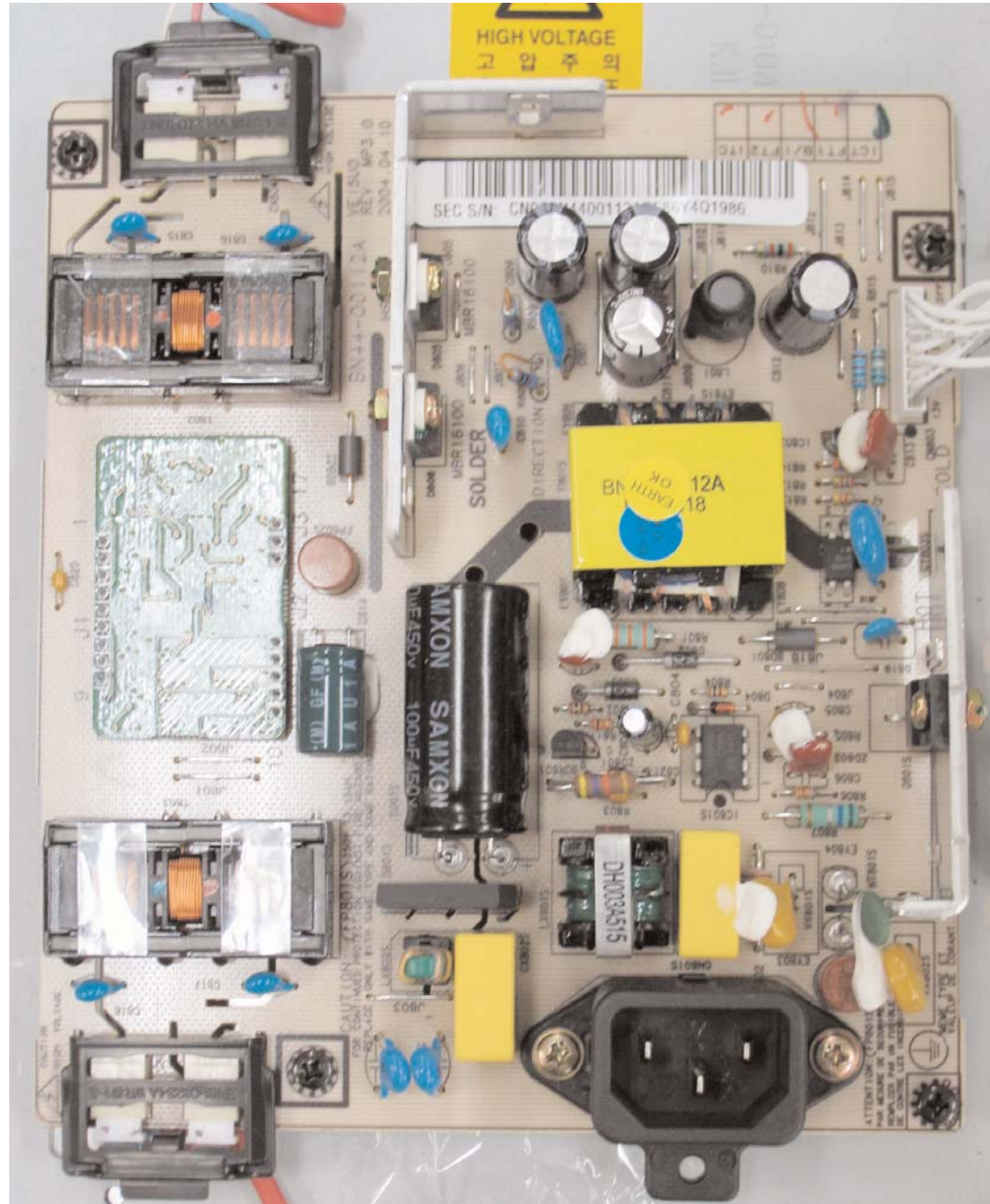
TUNER

SAW FILTER

Function

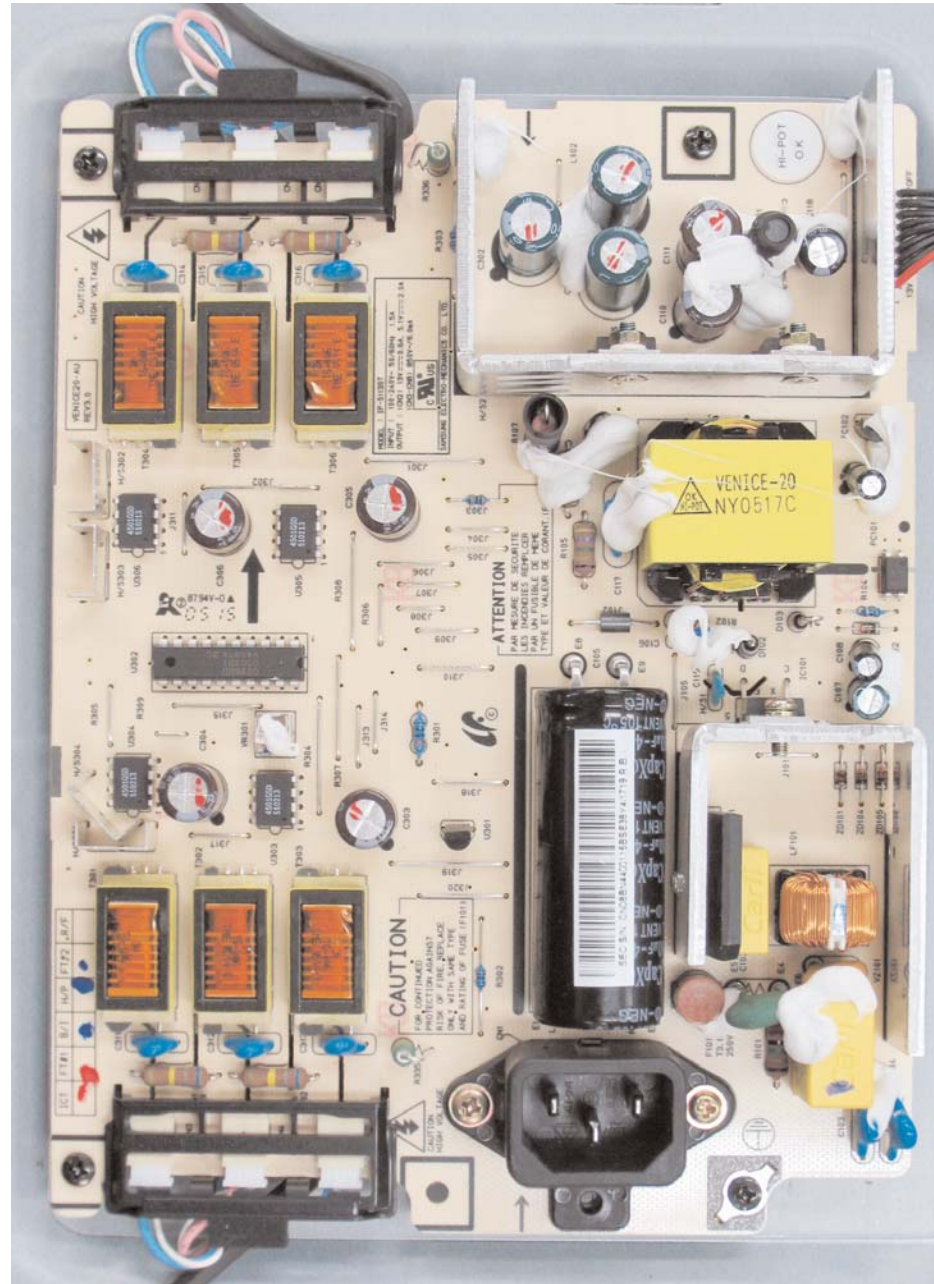
Speaker

12-1-2 Power board (LN15S51BP)



12-1-2 Power board (LN20S51BP)

CNI803
Pannel Control Connector



Memo

1 Precautions

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

1-1 Safety Precautions

1-1-1 Warnings

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

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor 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 (Figure 1-1):
WARNING: 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 ULI410, 59.7).

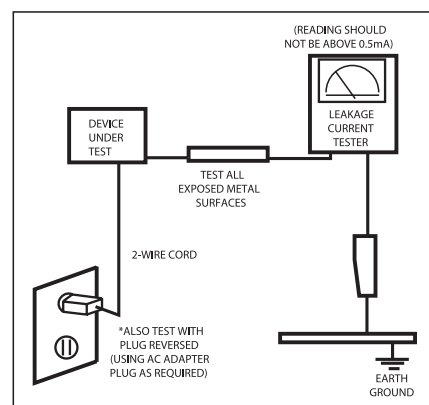


Figure 1-1. Leakage Current Test Circuit

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 safety-related 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 \triangle 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

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.

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

Note: 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.

Caution: 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 two 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 high-voltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space(10cm) between the product and the wall for ventilation purposes.
A rise in temperature within the product may cause fire.

Memo

2 Product specifications

2-1 Fashion Feature

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 194 channels. (Air : 69 , STD : 125)
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- Headphone jack for private listening



2-2 LN15S51BP Specifications

| Item | Description | |
|---|---|----------------------|
| LCD Panel | TFT-LCD panel, RGB vertical stripe, normally white, 15-Inch viewable, 0.511 (H) x 0.511(V)mm pixel pitch | |
| Scanning Frequency | Horizontal : 30 ~ 69 kHz / Vertical : 50 ~ 75 Hz | |
| Display Colors | 16.2 Million | |
| Maximum Resolution | Horizontal : 1024 Pixels Vertical : 768 Pixels | |
| Input Video Signal | Analog 0.7 Vp-p \pm 5% positive at 75 Ω , internally terminated | |
| Input Sync Signal | Type : Seperate H/V Level : TTL level | |
| Maximum Pixel Clock rate | 80 MHz | |
| Active Display Horizontal/Vertical | 575.77 (H) / 323.71 (V) mm | |
| Power Supply | AC 110V ~ 120V (50 / 60Hz) | |
| Power Consumption | 40W / <3W | |
| Dimensions(W x D x H) Set | 19.52 x 6.69 x 14.13 inch (496.0 x 170.0 x 359.0 mm) After installation Stand 19.52 x 3.22 x 13.11 inch (496.0 x 82.0 x 333.0 mm) Without stand | |
| Weight Set(After installation Stand) | 8.81 lbs (4.0 kg) | |
| TV System | Tunning | Frequency Synthesize |
| | System | NTSC-M |
| | Sound | MONO, STEREO, SAP |
| Environmental Considerations | Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 % | |
| Antena Input | 75 Ω | |
| Sound Characteristic | -MAX Internal speaker Out : Right : 3W / Left : 3W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz A/V : 80 Hz ~ 20 kHz | |


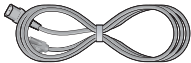
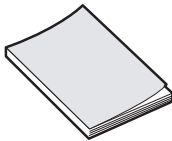

2-3 LN20S51BP Specifications

| Item | Description | |
|---|---|----------------------|
| LCD Panel | TFT-LCD panel, RGB vertical stripe, normally white, 20-Inch viewable, 0.511 (H) x 0.511(V)mm pixel pitch | |
| Scanning Frequency | Horizontal : 28 ~ 47 kHz / Vertical : 50 ~ 75Hz | |
| Display Colors | 16.7 Million | |
| Maximum Resolution | Horizontal : 800 Pixels Vertical : 600 Pixels | |
| Input Video Signal | Analog 0.7 Vp-p \pm 5% positive at 75 Ω , internally terminated | |
| Input Sync Signal | Type : Seperate H/V Level : TTL level | |
| Maximum Pixel Clock rate | 80 MHz | |
| Active Display Horizontal/Vertical | 575.77 (H) / 323.71 (V) mm | |
| Power Supply | AC 110V ~ 120V (50 / 60Hz) | |
| Power Consumption | 55W / <3W | |
| Dimensions(W x D x H) Set | 23.89 x 8.46 x 18.26 inch (607.0 x 215.0 x 464.0 mm) After installation Stand 23.89 x 3.70 x 17.16 inch (607.0 x 94.0 x 436.0 mm) Without stand | |
| Weight Set(After installation Stand) | 17.19 lbs (7.8 kg) | |
| TV System | Tunning | Frequency Synthesize |
| | System | NTSC-M |
| | Sound | MONO, STEREO, SAP |
| Environmental Considerations | Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 % | |
| Antena Input | 75 Ω | |
| Sound Characteristic | -MAX Internal speaker Out : Right : 3W / Left : 3W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz A/V : 80 Hz ~ 20 kHz | |

2-4 Spec Comparison

| Model | LN-R1550, LN-R2050 | LN15S51BP, LN20S51BP |
|--|--|--|
| Design |  |  |
| Frequency Horizontal Vertical Display Color | LN-R1550 : 30 ~ 69 kHz / LN-R2050 : 28 ~ 47 kHz 50 ~ 75 Hz LN-R1550: 16.2 Million / LN-R2050: 16.7 Million | LN-R1550P : 30 ~ 69 kHz / LN-R2050P : 28 ~ 47 kHz 50 ~ 75 Hz LN-R1550P: 16.2 Million / LN-R2050P: 16.7 Million |
| PC Resolution Maximum mode | LN-R1550 : 1024 x 768 @ 75 Hz / LN-R2050 : 800 x 600 @ 75 Hz | LN15S51BP: 1024 x 768 @ 75 Hz / LN20S51BP : 800 x 600 @ 75 Hz |
| Input Signal Sync Signal Video Signal | H/V Separate, TTL, P or N 0.7 Vp-p @ 75 Ω | H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm |
| Power Consumption Normal Power Saving | 40W <3W | 40W <3W |

2-5 Option Specification

| Item | Item Name | Code.No | Remark |
|--|---|------------------------------|--------|
|  | Remote Control / Batteries (AAA x 2) | BN59-00429A / 4301-000103 | |
|  | Power Cord | 3903-000085 | |
|  | Owner' s Instructions | BN68-00910A | |
|  | Wall Mount kit | BN96-01270A | |

Memo

14 Reference Information

14-1 Technical Terms

-Dot Pitch

The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

-Vertical Frequency

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz
Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

-Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

-Interlace and Non-Interlace Methods

Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

-Plug & Play

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

-Resolution

The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1920 x 1200, this means the screen is composed of 1920 horizontal dots (horizontal resolution) and 1200 vertical lines (vertical resolution).

-A2

This system uses two carriers to transmit voice data. Countries such as South Korea and Germany use this system.

-BTSC

Broadcast Television System Committee

The stereo broadcasting system that is used in most of the countries that have adopted the NTSC system, including the United States, Canada, Chile, Venezuela and Taiwan. It also refers to the organization that has been organized to promote its development and management.

-EIAJ

Electronic Industries Association of Japan.

-RF Cable

A round signal cable generally used for TV antennas.

-Satellite Broadcasting

Broadcasting service provided via satellite. Enables high picture quality and clear sound throughout the country regardless of the location of the viewer.

-Sound Balance

Balances the levels of the sound coming from each speaker in televisions with two speakers.

-Cable TV

Whereas the terrestrial broadcasting is delivered via frequency signals through the air, cable broadcasting is transmitted via a cable network. In order to view cable TV, one must purchase a cable receiver and hook it up to the cable network.

-CATV

"CATV" refers to the broadcasting service offered at hotels, schools and other buildings through their own broadcasting system, apart from VHF or UHF broadcasting by terrestrial broadcasters. The CATV programs may include movies, entertainment and educational programs. (Different from cable TV.)

CATV can be viewed only within the area in which the CATV service is offered.

S-Video

Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

-VHF/UHF

VHF indicates TV channels 2 to 13, and UHF indicates channels 14 through 69.

-Channel Fine Tuning

This feature allows the viewer to fine-tune the TV channel to obtain the best viewing conditions. The Samsung LCD TV has both automatic and manual channel fine-tuning features to enable the viewer to adjust their desired settings.

-External Device Input

External device input refers to video input from such external video devices as VCRs, camcorders and DVD players, separate from a TV broadcast.

14-2 Pin Assignments

14-2-1 DVD

| | |
|-----------|---------|
| RCA Green | Y |
| | GND |
| RCA Blue | Pb (Cb) |
| | GND |
| RCA Red | Pr (Cr) |
| | GND |
| RCA White | Audio L |
| | GND |
| RCA Red | Audio R |
| | GND |

14-2-2 S-Video

| Pin | Separate |
|-----|----------|
| 1 | GND |
| 2 | Y |
| 3 | C |
| 4 | GND |
| 5 | GND |

14-2-3 A/V

| | |
|------------|---------|
| RCA Yellow | CVBS |
| RCA White | Audio L |
| | GND |
| RCA Red | Audio R |
| | GND |

14-2-4 D-SUB

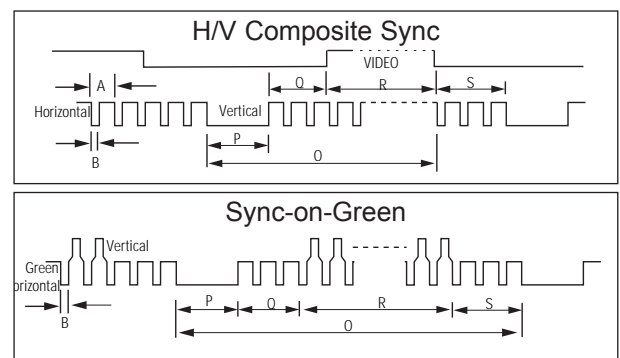
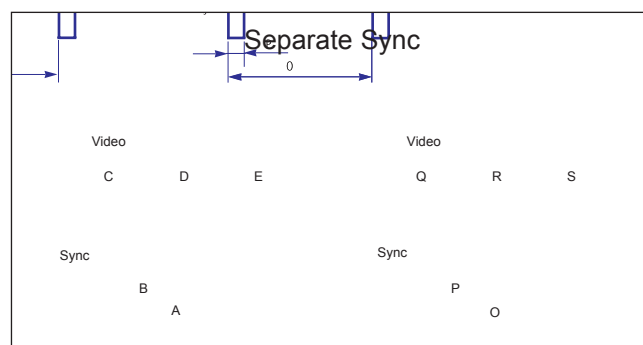
| Pin | Separate |
|-----|----------------------|
| 1 | Red |
| 2 | Green |
| 3 | Blue |
| 4 | GND |
| 5 | GND (DDC Return) |
| 6 | GND-Red |
| 7 | GND-Green |
| 8 | GND-Blue |
| 9 | No Connection |
| 10 | GND-Sync / Self Test |
| 11 | GND |
| 12 | DDC Data |
| 13 | H - Sync |
| 14 | V - Sync |
| 15 | DDC Clock |

14-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

| Mode Timing | IBM | | VESA | | | | |
|-------------------------|-----------------------------|-----------------------------|---------------------------------------|---|-------------------------|-------------------------|------------------------------|
| | VGA2/ 70 Hz 720 x 400 | VGA3/ 60 Hz 640 x 480 | 640/75 Hz, 60Hz, 72Hz 640 x 480 | 800/75 Hz, 56Hz, 60Hz, 72Hz 800 x 600 | 1024/60Hz 1024 x 768 | 1024/75Hz 1024 x 768 | 1280/75Hz, 50Hz 1280x1024 |
| fH (KHz) | 31.469 | 31.469 | 37.500 | 46.875 | 48.363 | 60.023 | 79.976 |
| A μ sec | 31.777 | 31.778 | 26.667 | 21.333 | 20.677 | 16.660 | 12.504 |
| B μ sec | 3.813 | 3.813 | 2.032 | 1.616 | 2.092 | 1.219 | 1.067 |
| C μ sec | 1.589 | 1.589 | 3.810 | 3.232 | 2.462 | 2.235 | 1.837 |
| D μ sec | 26.058 | 26.058 | 20.317 | 16.162 | 15.754 | 13.003 | 9.481 |
| E μ sec | 0.318 | 0.318 | 0.508 | 0.323 | 0.369 | 0.203 | 0.119 |
| fV (Hz) | 70.087 | 59.940 | 75.000 | 75.000 | 60.004 | 75.029 | 75.025 |
| O msec | 14.268 | 16.683 | 13.333 | 13.333 | 16.666 | 13.328 | 13.329 |
| P msec | 0.064 | 0.064 | 0.080 | 0.064 | 0.124 | 0.050 | 0.038 |
| Q msec | 0.858 | 0.794 | 0.427 | 0.448 | 0.600 | 0.466 | 0.475 |
| R msec | 13.155 | 15.761 | 12.800 | 12.800 | 15.880 | 12.795 | 12.804 |
| S msec | 0.191 | 0.064 | 0.027 | 0.021 | 0.062 | 0.017 | 0.013 |
| Clock Freq. (MHz) | 28.322 | 25.175 | 31.500 | 49.500 | 75.000 | 78.750 | 135.000 |
| Polarity H.Sync | Negative | Negative | Negative | Positive | Negative | Positive | Positive |
| V.Sync | Positive | Negative | Negative | Positive | Negative | Positive | Positive |
| Remark | Separate | Separate | Separate | Separate | Separate | Separate | Separate |



A : Line time total

B : Horizontal sync width

O : Frame time total

P : Vertical sync width

C : Back porch

D : Active time

Q : Back porch

R : Active time

E : Front porch

S : Front porch

14-4 Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

| Mode | Resolution | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Pixel Clock Frequency (MHz) | Sync Polarity (H/V) |
|-------------|------------|----------------------------|-------------------------|-----------------------------|---------------------|
| IBM | 640 X 350 | 31.469 | 70.086 | 25.175 | + / - |
| | 720 X 400 | 31.469 | 70.087 | 28.322 | - / + |
| | 640 X 480 | 31.469 | 59.940 | 25.175 | - / - |
| VESA | 640 X 480 | 35.000 | 70.000 | 28.560 | - / - |
| | 640 X 480 | 37.861 | 72.809 | 31.500 | - / - |
| | 640 X 480 | 37.500 | 75.000 | 31.500 | - / - |
| | 800 X 600 | 37.879 | 60.317 | 40.000 | + / + |
| | 800 X 600 | 48.077 | 72.188 | 50.000 | + / + |
| | 800 X 600 | 46.875 | 75.000 | 49.500 | + / + |
| | 800 X 600 | 43.750 | 70.000 | 45.500 | - / - |
| | 1024 X 768 | 48.363 | 60.004 | 65.000 | - / - |
| | 1024 X 768 | 56.476 | 70.069 | 75.000 | - / - |
| | 1024 X 768 | 56.672 | 72.000 | 78.434 | - / - |
| | 1024 X 768 | 60.023 | 75.029 | 78.750 | + / + |
| | 1360 X 768 | 47.712 | 60.015 | 85.800 | + / + |

14 Reference Infomation

14-5 Panel Description

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|-------|-------------------|-------------|-----------|--------------|---|
| SEC | LT140X1-002 | BN07-00004A | SA | BN68-00239H | - |
| SEC | LT150XS-L01 | BN07-00009A | SB | | - |
| SEC | LT150XS-L01-B | BN07-00022A | SC | | - |
| SEC | LTM150XS-L02 | BN07-00005A | SD | | - |
| SEC | LT181E2-132 | BN07-00001A | SE | | - |
| SEC | LT150XS-T01 | BN07-00010A | SF | | - |
| SEC | LTM181E3-132 | BN07-00019A | SG | | - |
| SEC | LT170E2-131 | BN07-10001D | SH | | - |
| SEC | LT181E2-131 | BN07-10001E | SJ | | - |
| SEC | LTM170E4-L01 | BN07-00018A | SK | | - |
| SEC | LTM240W1-L01 | BN07-00015A | SL | | - |
| SEC | LTM213U3-L01 | BN07-00016A | SM | | - |
| SEC | LTM150XH-L01 | BN07-00026A | SN | | - |
| SEC | LTM150XH-L03 | BN07-00027A | SP | | - |
| SEC | LTM150XS-L01 | BN07-00032A | SQ | | DELL(ZPD) |
| SEC | LTM181E4-L01 | BN07-00034A | SR | | PVA |
| SEC | LTM170EH-L01 | BN07-00036A | SS | | TN |
| SEC | LTM170E5-L01 | BN07-00037A | SU | | PVA |
| SEC | LTM150XH-L11 | BN07-00041A | SV | | - |
| SEC | LTM213U4-L01 | BN07-00039A | SW | | PVA |
| SEC | LTM150XH-L01(ZPD) | BN07-00045A | SX | | ZPD |
| SEC | LTM150XH-L04 | BN07-00046A | SY | | New panel with high brightness |
| SEC | LTM170W1-L01 | BN07-00047A | SZ | | Panel for TV |
| SEC | LTM150XH-L06 | BN07-00053A | EA | | Panel for TV/ High luminance for 450cd _ SONY&EOS Team Panel for TV |
| SEC | LTM153W1-L01 | BN07-00054A | EB | | Use NIKE MODEL |
| SEC | LTM170EH-L05 | BN07-00055A | EC | | Panel EOS proj. for high brightness of 17" EH-L05 |
| SEC | LTM170E5-L03 | BN07-00056A | ED | | Dell 1702FP pro. E4. EH mechanical Compatible |
| SEC | LTM190E1-L01 | BN07-00057A | EE | | DELL 1900 FP |
| SEC | LTM181E5-L01 | BN07-00061A | EF | | 18" narrow bezel GH18PS |
| SEC | LTM150XP-L01 | BN07-00065A | EG | | AMLCD PVA PANEL |
| SEC | LTM240W1-L02 | BN07-00062A | EH | | Panel for 15" Wide TV |
| SEC | LTM170EU-L01 | BN07-00071A | EJ | | Slim design, TN |
| SEC | LTM170E5-L04 | BN07-00072A | EK | | E5-L04 6 bits FRC... for IBM |
| SEC | LTA220W1-L01 | BN07-00074A | EL | | Panel for 22" TV |
| SEC | LTM170E6-L02 | BN07-00075A | EM | | AMLCD Narrow & slim design 17" PVA mode |
| SEC | LTM170W1-L01 | BN07-00082A | EN | | LTM170W1-L01 ZPD panel |
| SEC | LTM170EH-L01 | BN07-00080A | EP | | LTM170EH-L01 ZPD panel |
| SEC | LTM170E5-L01 | BN07-00081A | EQ | | LTM170E5-L01 ZPD panel |
| SEC | LTM170EH-L05 | BN07-00083A | ER | | LTM170EH-L05 ZPD panel |
| SEC | LTM170E5-L03 | BN07-00084A | ES | | LTM170E5-L03 ZPD panel |
| SEC | LTM170EU-L01 | BN07-00085A | ET | | LTM170EU-L01 ZPD panel |
| SEC | LTM170E5-L04 | BN07-00086A | EU | | LTM170E5-L04 ZPD panel |
| SEC | LTM170E6-L02 | BN07-00087A | EV | | LTM170E6-L02 ZPD panel |
| SEC | LTM150XH-L06 | BN07-00091A | EW | | Color coordinates change for LCD TV |
| SEC | LTM153W1-L01 | BN07-00092A | EX | | AMLCD WIDE 15",9/10 |
| SEC | LTM170W1-L01 | BN07-00100A | EY | | Color Coordinates change code management |
| SEC | LTM170EH-L05 | BN07-00097A | EZ | | LTM170E5-L05 Color Coordinates Change Panel Code |
| SEC | LTA400W1-L01 | BN07-00109A | S1 | | PANEL of AMLCD 40" TV |
| SEC | LTM153W1-L01 | BN07-00110A | S2 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |
| SEC | LTM150XH-L06 | BN07-00111A | S3 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|-------|--------------|-------------|-----------|--------------|---|
| SEC | LTM170W1-L01 | BN07-00112A | S4 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |
| SEC | LTM170EH-L05 | BN07-00113A | S5 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |
| SEC | LTM220W1-L01 | BN07-00114A | S6 | | ZPD Panel for AMLCD 22" TV |
| SEC | LTM150XH-L06 | BN07-00117A | S7 | | ZPD Panel code |
| SEC | LTM153W1-L01 | BN07-00118A | S8 | | ZPD Panel code |
| SEC | LTM170WP-L01 | BN07-00119A | S9 | | PVA Panel for NIKE |
| SEC | LTM213U4-L01 | BN07-00039A | E1 | | 21.3" NARROW |
| SEC | LTA260W1-L01 | BN07-00121A | E2 | | VENUS |
| SEC | LTA220W1-L01 | BN07-00074B | E3 | | "Panel B-level panel code for 22" TV Panel " |
| SEC | LTA320W1-L01 | BN07-00108A | E4 | | "Panel for AMLCD 32" TV" |
| SEC | LTM213U4-L01 | BN07-00124A | E5 | | NARROW BEZEL 21 " PANEL |
| SEC | LTM170E6-L04 | BN07-00129A | E6 | | "HIGHLAND 17" LOW PANEL (Panel only for TCO03)" |
| SEC | LTM190E1-L01 | BN07-00088A | E7 | | LTM190E1-L01 ZPD panel |
| SEC | M150X4-L06 | BN07-00137A | E8 | | 15" Narrow & Slim panel |
| SEC | LTA170V1 | BN07-00139A | E9 | | "17" Panel for Muse 4:3 VGA TV" |
| SEC | LTM190E1-L02 | BN07-00128A | E10 | | "New Panel from AMLCDI, Specification : 6bit Driver IC" |
| SEC | LTM170EX-L01 | BN07-00143A | E11 | | "Development new Panel from AMLCD" |
| SEC | LTM170E8-L01 | BN07-00144A | E12 | | "Development new Panel from AMLCD" |
| SEC | LTM170E6-L04 | BN07-00129B | E13 | | "ZPD panel for AMLCD (Panel only for TCO03)" |
| SEC | LTA320W1-L02 | BN07-00108B | E14 | | "Creat B-level Panel code for AMLCD 32" TV" |
| SEC | LTM190E1-L03 | BN07-00151A | E15 | | "Development new 19" Panel form AMLCD (Panel only for TCO03)" |
| SEC | LTM240W1-L03 | BN07-00134A | E16 | | "AMLCD 24" panel development" |
| SEC | LTM190E1-L02 | BN07-00128B | E17 | | "New Panel from AMLCD, Specification : 6bit Driver IC(ZPD)" |
| SEC | LTM190E4-L01 | BN07-00145A | E18 | | "AMLCD 24" new panel development" |
| SEC | LTM170E8-L01 | BN07-00158A | E19 | | "ZPD code derivation" |
| SEC | LTM170EX-L01 | BN07-00159A | E20 | | "ZPD code derivation" |
| SEC | LTM190E1-L03 | BN07-00151B | E21 | | "Creat new panel code for AMLCD 19" (Panel only for TCO03)" |
| SEC | LTA460H1-L01 | BN07-00157A | E22 | | "creat panel code for AMLCD 46" TV " |
| SEC | LTM170EU-L11 | BN07-00160A | E23 | | "creat new panel code for AMLCD 17" (Panel only for TCO03)" |
| SEC | LTM240W1-L03 | BN07-00134B | E24 | | "24" panel ZPD code derivation" |
| SEC | LTM190E4-L01 | BN07-00145B | E25 | | "AMLCD 19" ZPD Panel code derivation" |
| SEC | LTM240W1-L03 | BN07-00134B | E26 | | "24" panel ZPD code derivation" |
| SEC | LTM150XO-L01 | BN07-00164A | E27 | | "AMLCD 15" XO-L01 new panel development" |
| SEC | LTM150XO-L01 | BN07-00164B | E28 | | "AMLCD 15" XO-L01 ZPD code derivation" |
| SEC | LTM170EU-L11 | BN07-00160B | E29 | | "AMLCD 17" NEW panel code derivation" |
| SEC | LTA320W2-L01 | BN07-00172A | SPZ | | AMLCD 32" NEW panel |
| SEC | LTM213U4-L01 | BN07-00124B | SPZ | | 21.3" Narrow PANEL ZPD Panel derivation |
| SEC | LTM170EU-L11 | BN07-00189A | STH | | AMLCD EU-L11 Pb free panel code derivation |
| SEC | LTM170EU-L11 | BN07-00189B | STZ | | AMLCD EU-L11 Pb free panel ZPD code derivation |
| SEC | LTM240W1-L04 | BN07-00188A | SPH | | 24" A-DCC new panel development |
| SEC | LTM240W1-L04 | BN07-00188B | SPZ | | 24" A-DCC panel ZPD code derivation |
| SEC | LTM190EX-L01 | BN07-00191A | STH | | AMLCD 19" TN new Panel |
| SEC | LTM190EX-L02 | BN07-00191B | STZ | | AMLCD 19" TN new Panel ZPD derivation |
| SEC | LTA230W1-L02 | BN07-00184A | SPZ | | AMLCD 23" 16:9 new Panel |
| SEC | LTA260W2-L01 | BN07-00185A | SPZ | | AMLCD 26" 16:9 new Panel |
| SEC | LTM240M1-L01 | BN07-00195A | SPH | | 24" panel with high brightness development |
| SEC | LTA400W2-L01 | BN07-00186A | SPZ | | AMLCD 40" 16:9 new Panel |
| SEC | LTM150XO-L01 | BN07-00197A | STH | | AMLCD 15" XO-L01 Pb free panel code |
| SEC | LTM150XO-L01 | BN07-00197B | STZ | | AMLCD 15" XO-L01 Pb free panel ZPD code |
| SEC | LTM170EU-L21 | BN07-00202A | STZ | | AMLCD EU-L21 ZPD new code derivation |

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| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|----------|------------------|-------------|-----------|--------------|---|
| SEC | LTA460W2-L03 | BN07-00187A | SPZ | | BEETOVEN 46"ZPD new panel |
| SEC | LTM240M1-L01 | BN07-00195B | SPZ | | 24" igh brightness panel ZPD code derivation |
| SEC | M170EX-L21 | BN07-00206A | STZ | | AMLCD LTM170EX-L21 ZPD new code derivation |
| SEC | LTA460H3-L01 | BN07-00200A | SPZ | | AMLCD 46" LED BLU panel |
| SEC | LTM170EU-L15 | BN07-00214A | STZ | | AMLCD EU-L15 TV high brightness ZPD new code derivation |
| SEC | LTM170E8-L21 | BN07-00218A | SPZ | | AMLCD LTM170E8-L21 PVA ZPD new code derivation |
| SEC | LTM190EX-L21 | BN07-00222A | STZ | | DISPLAY LCD |
| SEC | LTM201U1-L01 | BN07-00190B | SPZ | | AMLCD 20.1" Normal panel ZPD code derivation |
| SEC | LTM190E4-L21 | BN07-00223A | SPZ | | HAYDN 17" PZD code PANEL derivation |
| SEC | LTA570H1-L01 | BN07-00196A | SPZ | | AMLCD 57" new panel development |
| SEC | LTM150XO-L21 | BN07-00229A | STZ | | AMLCD 15" XO-L21 8ms panel code |
| SEC | LTA260W2-L11 | BN07-00239A | SPZ | | AMLCD 26" 16:9 7Line new Panel |
| SEC | LTA400WS-LH1 | BN07-00245A | SPZ | | AMLCD 40" 16:9 SPVA 90% new Panel |
| SEC | LTM213U6-L01 | BN07-00231A | SPZ | | AMLCD 21.3" PVA new Panel Code |
| SEC | LTA320WS-LH2 | BN07-00244A | SPZ | | AMLCD 32" 16:9 SPVA 90% new Panel |
| SEC | LTA400WS-LH1 | BN07-00245A | SPZ | | AMLCD 40" 16:9 SPVA 90% new Panel |
| CPT | CLAA150XG09 | BN07-00141A | PA | | "CPT 15"" Monitor new panel development" |
| CPT | CLAA170EA02 | BN07-00148A | PB | | "17"" CPT NEW development panel" |
| CPT | CLAA170EA02 | BN07-00148B | PC | | "17"" CPT ZPD panel code derivation" |
| CPT | CLAA150XG09 | BN07-00141B | PTZ | | "CPT 15"" panel ZPD code derivation (GOYA-PJT)" |
| CPT | CLAA150XP01 | BN07-00173A | PTH | | CPT 15" PSWG code derivation |
| CPT | CLAA150XP01 | BN07-00173B | PTZ | | CPT 15" PSWG panel ZPD code |
| CPT | CLAA170EA07 | BN07-00174A | PTH | | "CPT 17"" PSWG panel code derivation |
| CPT | CLAA170EA07 | BN07-00174B | PTZ | | CPT 17"" PSWG type new Panel code"" |
| CPT | CLAA170EA07 | BN07-00174B | PTZ | | CPT 17" PSWG type new Panel code |
| CPT | CLAA170EA07Q | BN07-00220A | PTZ | | CPT 17" PSWG R/T 8msec code derivation |
| CPT | CLAA170EA07Q | BN07-00220B | PTH | | CPT 17" PSWG R/T 8msec HPD code derivation |
| CPT | CLAA150XP01F | BN07-00236A | PTZ | | CPT 15" PSWG panel ZPD & Lead free code derivation |
| TOSHIBA | LTM15C419(A) | BN07-00002A | TA | | - |
| TOSHIBA | LTM15C423(B) | BN07-00006A | TB | | - |
| TOSHIBA | LTM18C161 | BN07-00008A | TC | | - |
| TOSHIBA | LTM15C443 | BN07-00031A | TD | | - |
| TOSHIBA | LTM15C458 | BN07-00043A | TE | | - |
| TOSHIBA | LTM15C458S | BN07-00077A | TF | | "TSB 15"" high brightness Panel" |
| TOSHIBA | LTM15C458 | BN07-00078A | TG | | Toshiba ZPD panel |
| TOSHIBA | LTM15C458S | BN07-00099A | TH | | TSB LTM15C458S (ZPD) |
| HANNSTAR | HSD150MX41(A) | BN07-00020A | NA | | "TTL type" |
| HANNSTAR | HSD150MX12 | BN07-00030A | NB | | "TTL type" |
| HANNSTAR | HSD170ME13 | BN07-00180A | NTH | | Hannstar 17" TN new panel development |
| HANNSTAR | HSD170ME13 | BN07-00180B | NTZ | | Hannstar 17" TN new panel development ZPD code derivation |
| HANNSTAR | HSD190ME12 | BN07-00210A | NTZ | | Hannstar 19" TN new panel development |
| HANNSTAR | HSD150MX17-A | BN07-00226A | NTZ | | Hannstar 15" slim panel ZPD code derivation |
| TORISAN | TM150XG-22L03(A) | BN07-00021A | RA | | - |
| TORISAN | TM150XG-26L06 | BN07-00042A | RB | | - |
| TORISAN | TM181SX-76N01 | BN07-00048A | RC | | - |
| TORISAN | TM150XG-26L06 | BN07-00059A | RD | | 15" XGA TN MODE(ZPD) |
| TORISAN | TM290WX-71N31 | BN07-00063A | RE | | "RS24NS (TORISAN 29"" NEW PANEL)" |
| TORISAN | TM396WX-71N31 | BN07-00064A | RF | | "RS24NS (TORISAN 40"" NEW PANEL)" |
| TORISAN | TM150XG-26L09 | BN07-00073A | RG | | "Panel for 15"" TV" |
| TORISAN | TM150XG-26L10 | BN07-00089A | RH | | "L10(change except D/I/C) ZPD" |

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|---------|------------------|-------------|-----------|--------------|--|
| TORISAN | TM150XG-26L10 | BN07-00090A | RJ | | L10 NORMAL |
| TORISAN | TM190SX-70N01 | BN07-00098A | RK | | Torisan 19" Panel |
| TORISAN | TM181SX-76N01 | BN07-00106A | RL | | ZPD Panel code |
| TORISAN | TM190SX-70N01 | BN07-00107A | RM | | ZPD Panel code |
| TORISAN | TM290WX-71N31 | BN07-00115A | RN | | "Color Coordinates change panel for TORISAN 29"" TV" |
| TORISAN | TM396WX-71N31 | BN07-00116A | RP,Q | | "Color Coordinates change panel for TORISAN 40"" TV" |
| TORISAN | TM220WX-71N31 | BN07-00125A | RR | | "Development TORISAN 22"" TV PANEL (ZPD)" |
| TORISAN | TM220WX-71N31 | BN07-00127A | RS | | "Development TORISAN 22"" TV PANEL (HPD)" |
| TORISAN | TM396WX-71N32A | BN07-00150A | RT | | 120V inverter Exclusive panel |
| TORISAN | TM190SX-70N02 | BN07-00154A | RMH | | Torisan 6bit panel code Derivation |
| TORISAN | TM190SX-70N02 | BN07-00154B | RMZ | | Torisan 6bit panel code Derivation |
| TORISAN | TM150XG-A01 | BN07-00162A | RTH | | Torisan 15" Narrow & Slim panel development |
| TORISAN | TM150XG-A01 | BN07-00162B | RTZ | | Torisan 15" N&S panel ZPD code Derivation |
| SHARP | LQ181E1DG11(A) | BN07-10001C | PA | | - |
| SHARP | LQ150X1LW71 | BN07-00067A | PB | | SHARP 15" PVA PANEL |
| SHARP | LQ370T3LZ41 | BN07-00216A | FAZ | | Rome2 |
| HITACHI | TX38D12VC0CAA(A) | BN07-00003A | HA | | - |
| HITACHI | TX43DVCOCAB | BN07-00060A | HB | | 17" SXGA PVA MODE |
| HITACHI | TX43D15VC0CAB | BN07-00101A | HC | | ZPD Panel |
| HITACHI | TX51D11VC0CAB | BN07-00122A | HD | | 20.1" NARROW |
| HITACHI | TX54D11VC0CAB | BN07-00123A | HE | | 21.3" NARROW |
| HITACHI | TX80D12VC0CAB | BN07-00169A | HIZ | | "Development new panel for Hitachi 32"" TV (ZPD)" |
| HITACHI | TX54D11VC0CAB | BN07-00123B | HIZ | | Hitachi 21.3"ZPD panel |
| IBM | ITSX94S | BN07-00017A | IA | | - |
| UNIPAC | UM170E0 | BN07-00028A | UA | | Loaded by cisdba |
| HYUNDAI | HT15X13 | BN07-00035A | DA | | - |
| HYUNDAI | HT17E11-200 | BN07-00049A | DB | | TN MODE |
| HYUNDAI | HT17E11-300 | BN07-00093A | DC | | HT17E11-300 ZPD panel |
| HYUNDAI | HT17E11-400 | BN07-00094A | DD | | HT17E11-400 normal panel |
| HYUNDAI | HT17E11-400 | BN07-00095A | DE | | HT17E11-400 ZPD panel code |
| HYUNDAI | HT17E12 | BN07-00096A | DF | | HT17E12 (Narrow & slim Design) |
| HYUNDAI | HT17E12 | BN07-00105A | DG | | ZPD Panel code |
| HYUNDAI | HT15X15-D00 | BN07-00146A | DH | | "Development for Ares 15"" Hydis TV" |
| HYUNDAI | HT15X15-D01 | BN07-00146B | DJ | | "Derivation panel HPD for Ares 15"" Hydis TV " |
| HYUNDAI | HT17E13-100 | BN07-00167A | DTH | | "PINEHURST-2(IBM) PJT 17"" HYDIS PANEL Derivation" |
| HYUNDAI | HT17E13-100 | BN07-00167B | DTZ | | "PINEHURST-2(IBM) Hydis 17"" ZPD code Derivation" |
| ACER | L170E3 | BN07-00044A | AA | | TN(ADT) |
| ACER | M170EN05 | BN07-00076A | AB | | AU 17" Panel (Narrow & slim design) |
| ACER | M170EN05 | BN07-00102A | AC | | ZPD Panel code |
| ACER | M190EN02 | BN07-00170A | AMH | | "AU Monitor 19"" new panel development (P19-1S)" |
| ACER | M190EN02 | BN07-00170B | AMZ | | "AU 19"" ZPD code derivation (ZPD)" |
| ACER | M170EN06 | BN07-00171A | ATH | | "AU Monitor 17"" New panel development " |
| ACER | T260XW01 | BN07-00163A | AMZ | | "AU 26"" new panel development (NF26EO)" |
| ACER | A201SN01 | BN07-00177A | ATZ | | "AU TV panel 20.1"" TN SVGA new panel development" |
| ACER | M170EN06 | BN07-00171B | ATZ | | AU Monitor 17" ZPD code derivation |
| ACER | T315XW01 | BN07-00194A | AMZ | | AU 32" new |
| ACER | M170EG01 | BN07-00192A | ATH | | AU TN PSWG type new Panel code |
| ACER | M170EG01 | BN07-00192B | ATZ | | AU TN PSWG type NEW panel code derivation |
| ACER | M190EN04 | BN07-00203A | ATH | | AU Monitor 19" ZPD new Panel code |
| ACER | T260XW02 | BN07-00208A | AMZ | | AUO 26" ZPD panel |

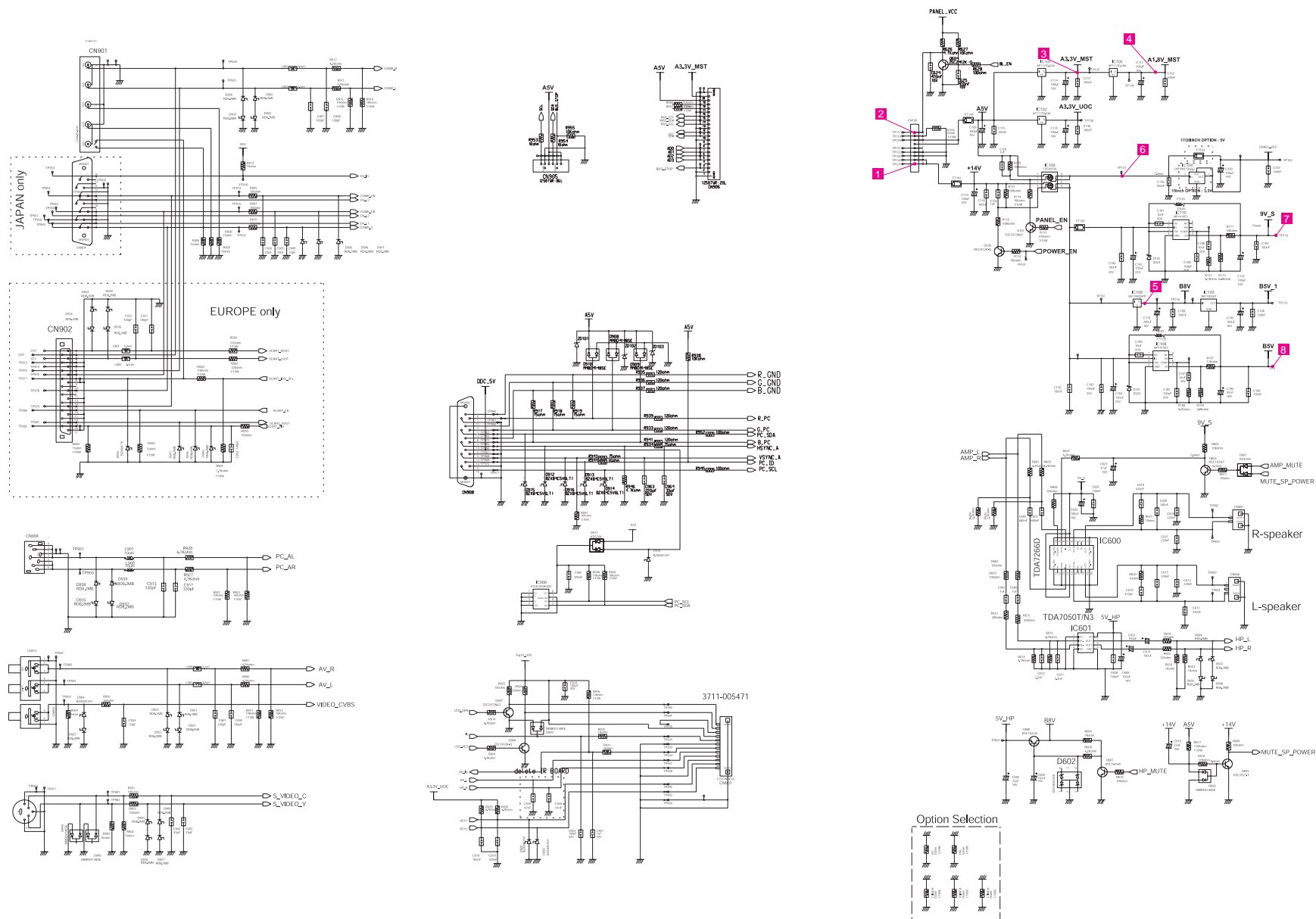
14 Reference Infomation

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|--------|--------------|-------------|-----------|--------------|---|
| ACER | M170EG01 V8 | BN07-00221A | ATZ | | AU TN PSWG type new Panel (8msec) ZPD code derivation |
| ACER | T260XW02 | BN07-00233A | AMZ | | AUO 26" Panel new (Cosmetic spec down grade) |
| ACER | T315XW01 | BN07-00234A | AMZ | | AUO 32" Grade new (Cosmetic spec down grade) |
| ACER | M190EN03 | BN07-00224A | AMZ | | AU Monitor 19" MVA new code derivation |
| ACER | T315XW01 | BN07-00237A | AMZ | | LCD TV VE project new |
| ACER | T315XW01 | BN07-00238A | AMZ | | LCD TV VE project new |
| ACER | M201UN02 V3 | BN07-00168A | AMZ | | |
| CHIMEI | M170E3-L01 | BN07-00050A | CA | | TN PANEL |
| CHIMEI | M150X3-L01 | BN07-00051A | CB | | COMPATIBLE |
| CHIMEI | M170E4-L01 | BN07-00052A | CC | | MVA PANEL |
| CHIMEI | M150X2-L01 | BN07-00066A | CD | | CHIME 15" PVA PANEL |
| CHIMEI | M150X3-L01 | BN07-00079A | CE | | Chimei ZPD panel |
| CHIMEI | M170E3-L01 | BN07-00103A | CF | | ZPD Panel code |
| CHIMEI | M170E4-L01 | BN07-00104A | CG | | ZPD Panel code |
| CHIMEI | V296W1-L01 | BN07-00120A | CH | | MVA |
| CHIMEI | M170E6-L02 | BN07-00126A | CJ | | HIGHLAND 17" LOW PANEL |
| CHIMEI | M190E2-L01 | BN07-00131A | CK | | GH19AS,BS CHIMEI PANEL |
| CHIMEI | M150X4-L06 | BN07-00137A | CL | | 15" Narrow & Slim panel |
| CHIMEI | M170E6-L01 | BN07-00133A | CM | | "2003-03-11 vendor change" |
| CHIMEI | M170E6-L01 | BN07-00133B | CN | | ZPD derivation panel |
| CHIMEI | V201V1-T01 | BN07-00135A | CP | | CHIMEI 20.1" panel development |
| CHIMEI | M170E6-L02 | BN07-00126B | CQ | | "HIGHLAND 17"" LOW PANEL ZPD derivation panel" |
| CHIMEI | M170E6-L05 | BN07-00152A | CR | | "CMO 17"" new panel development code" |
| CHIMEI | M170E6-L05 | BN07-00152B | CS | | "CMO 17"" ZPD panel code derivation" |
| CHIMEI | M150X4-L06 | BN07-00137B | CT | | Chimei 15" Narrow & Slim panel ZPD derivation |
| CHIMEI | M170E5-L05 | BN07-00165A | CTH | | CMO 17" new panel development code (GOYA2-PJT) |
| CHIMEI | M170E5-L05 | BN07-00165B | CTZ | | CMO 17" ZPD panel(GOYA2-PJT) |
| CHIMEI | V230W1-L02 | BN07-00209A | CMZ | | CMO 23" development |
| CHIMEI | V320B1-L01 | BN07-00207A | CMZ | | CMO 32" development |
| CHIMEI | V270W1-L01 | BN07-00136A | CMZ | | CHI MEI 27" panel development |
| NEC | SVA150XG04TB | BN07-00225A | BTZ | | SVA NEC 15" panel ZPD code |

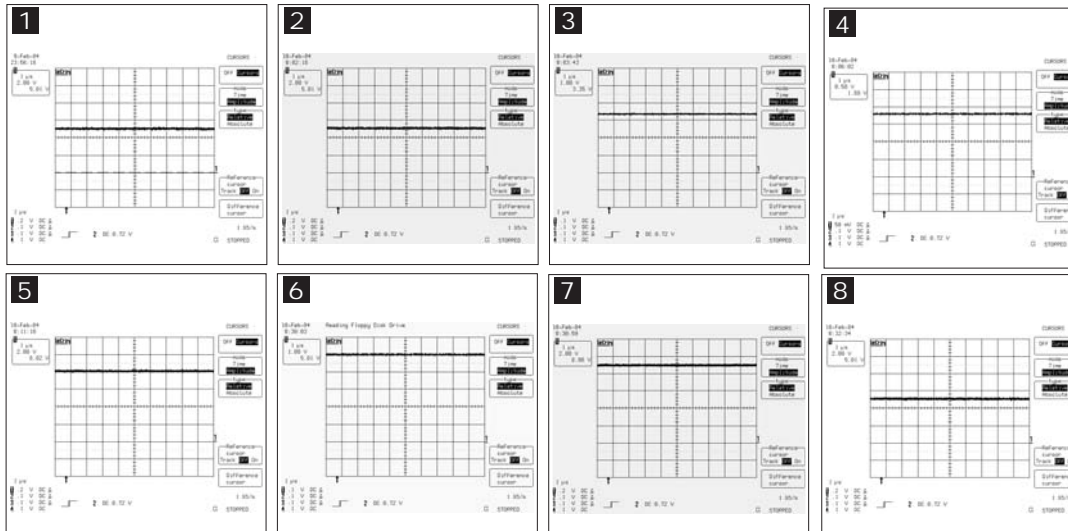
9 Schematic Diagrams

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9-1 Input Power Sound Schematic Diagram

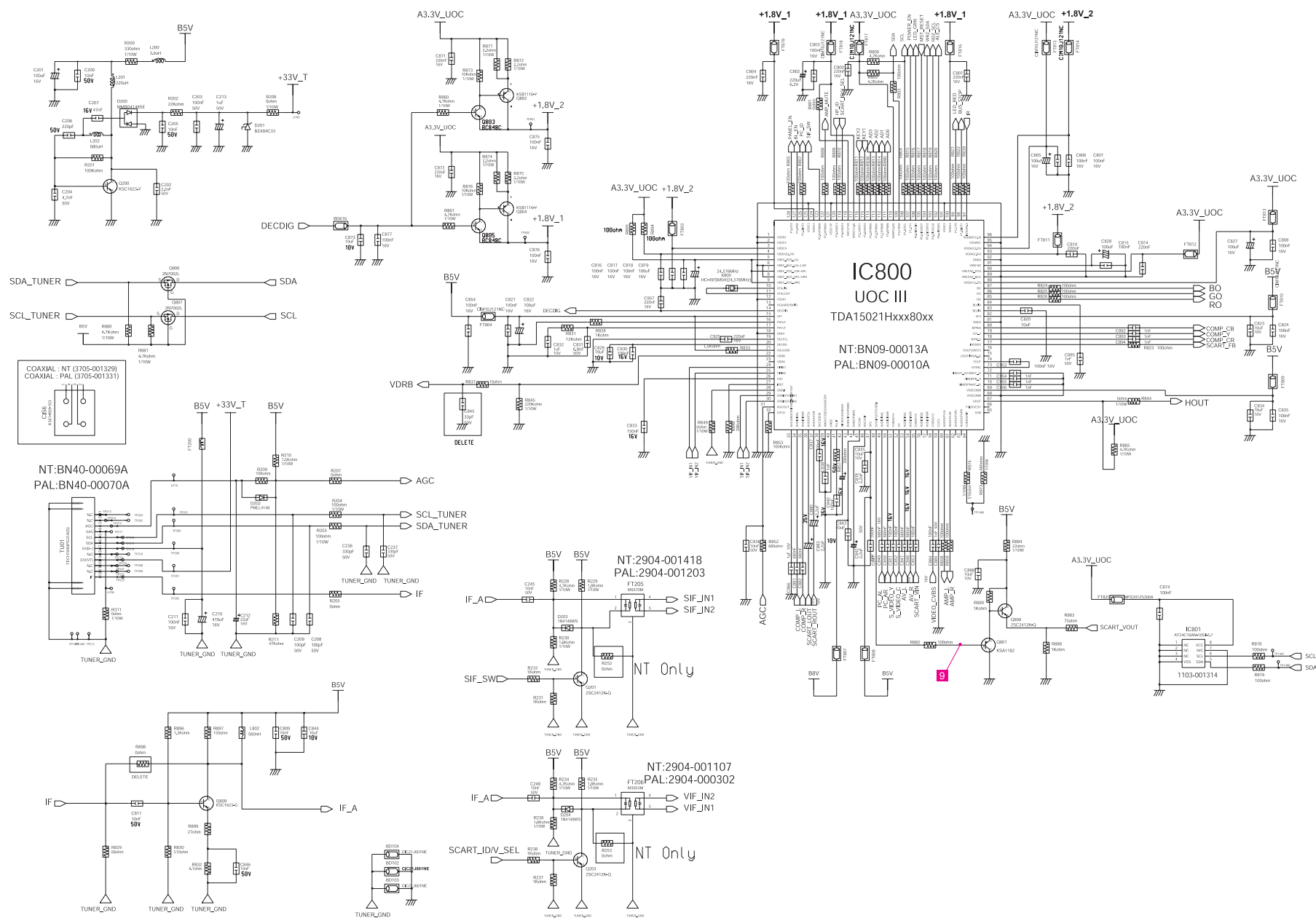


9 Schematic Diagrams

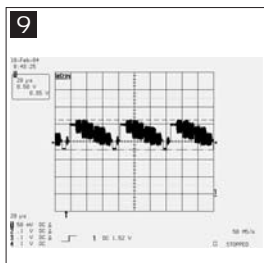


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9-2 UOC III Schematic Diagram

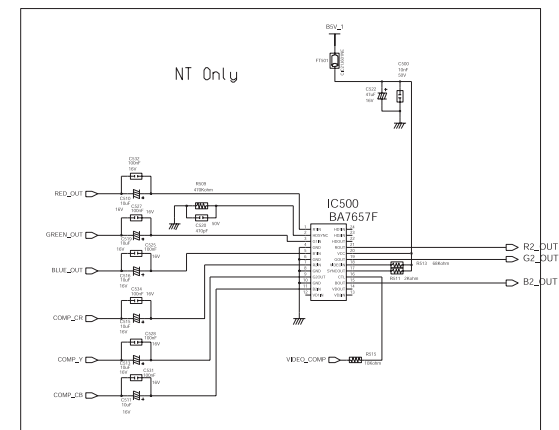
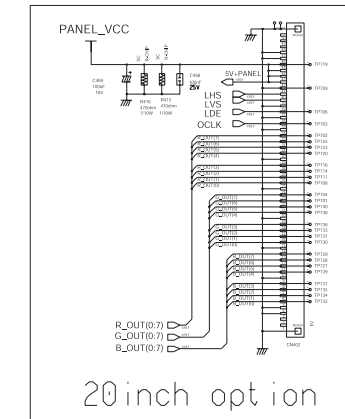
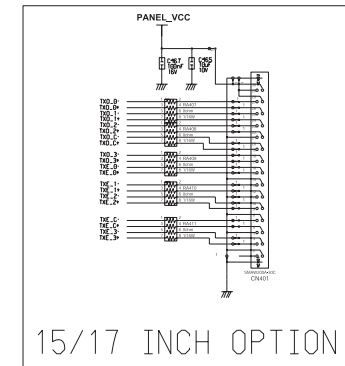
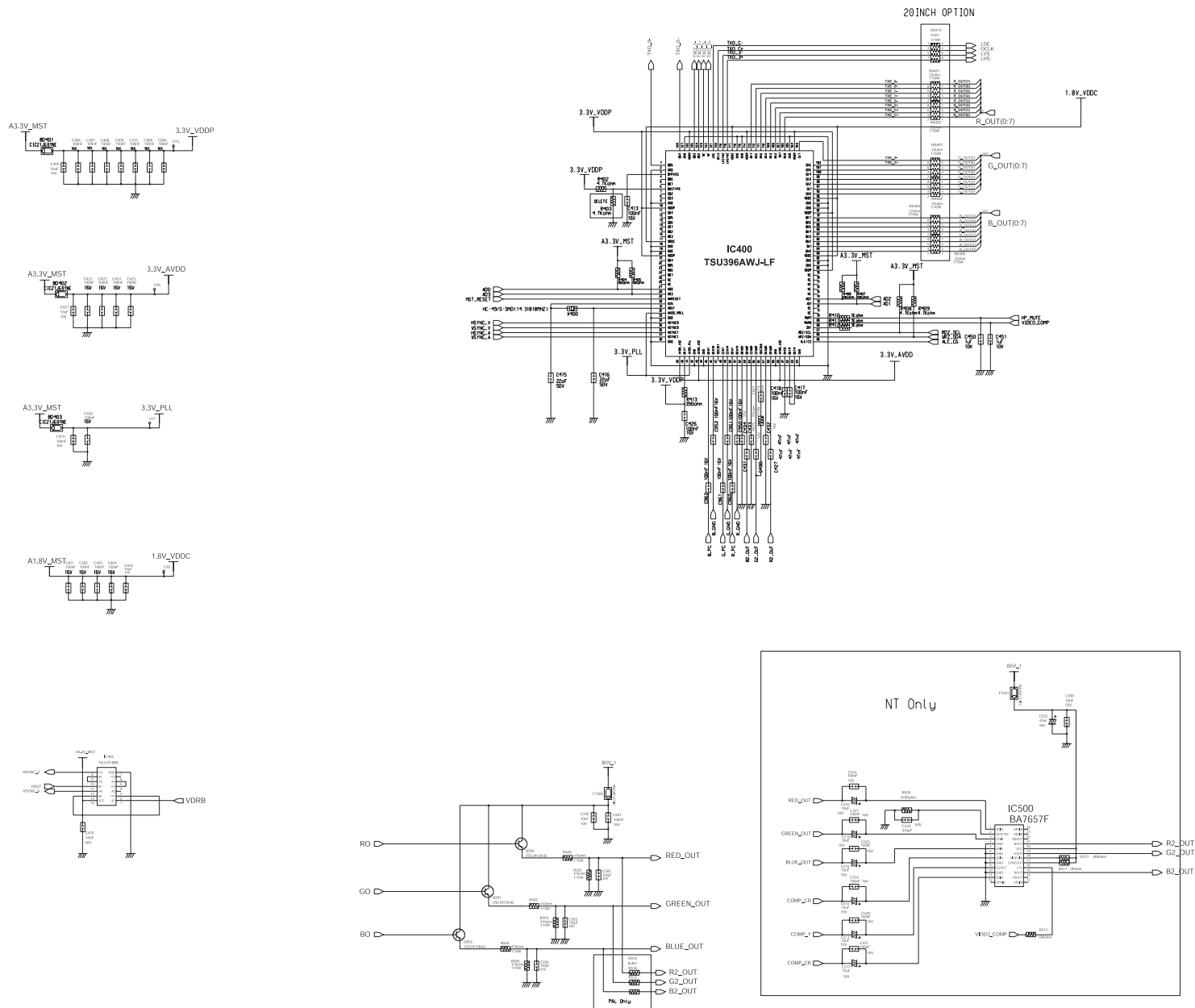


9 Schematic Diagrams



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9-3 Output Scaler, LVDS Schematic Diagram



9 Schematic Diagrams

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9-4 IP Board Schematic Diagram(LN-R1550P)

PART SPEC

1.0 SCOPE

THIS DOCUMENT DEFINES FOR A AC ADAPTER & INVERTER INTERNAL TYPE, 13VDC/2.0A, 5.0VDC/2.0A

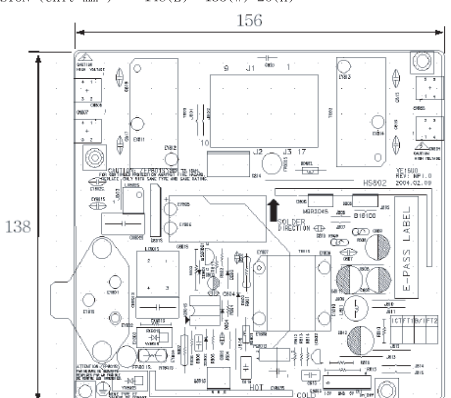
2.0 RELATED DOCUMENTS

3.0 REQUIREMENTS

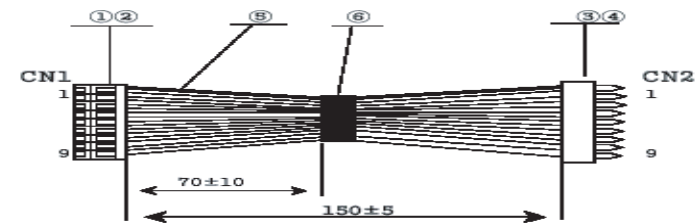
3.1 PHYSICAL CHARACTERISTICS

3.1.1 DIMENSION & APPEARANCE

1) DIMENSION (Unit:mm) 148(L) *135(W)*26(H)



3.1.2 WIRE SPEC



| NO | NAME OF PARTS | SPECIFICATION | UNIT | Q'TY | REMARK |
|----|---------------|-----------------------|------|-------|---------|
| 1 | HOUSING | SMH200-09 | EA | 1 | UL/CSA |
| 2 | TERMINAL | YST200 | EA | 9 | UL/CSA |
| 3 | HOUSING | YBNH200-09 | EA | 1 | YEON HO |
| 4 | TERMINAL | YBST200 | EA | 9 | YEON HO |
| 5 | LEAD WIRE | UL1007 #24 GRAY,WHITE | EA | 160*9 | UL/CSA |
| 6 | AT TAPE | 10mm, BLACK | EA | 1 | UL/CSA |

SAMSUNG

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DOC. NO.: BN44-00112A CB

REF. NO.:

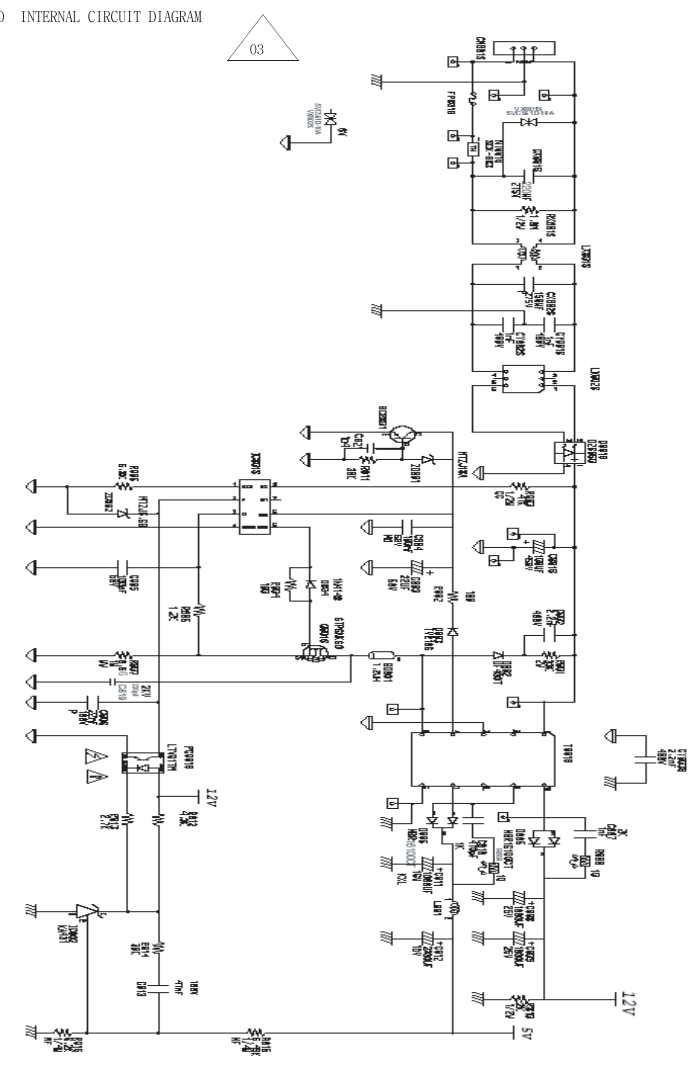
REV.: 00

PAGE: 3

KQA-2029F7R0(96.10.25)

PART SPEC

4.0 INTERNAL CIRCUIT DIAGRAM



SAMSUNG

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DOC. NO.: BN44-00112A CB

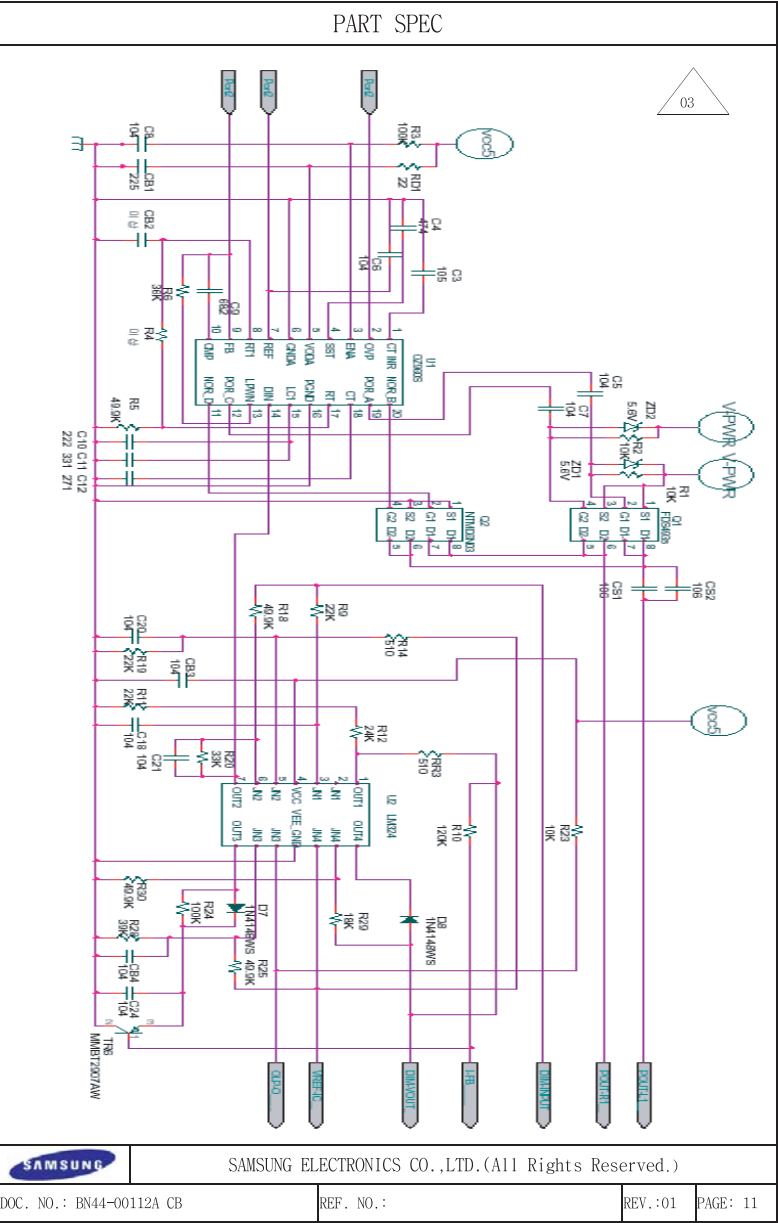
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9-6



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9-5 IP Board Schematic Diagram(LN-R2050P)

PART SPEC

1.0 SCOPE

THIS DOCUMENT DEFINES FOR A AC ADAPTER & INVERTER INTERNAL TYPE, IP-51135T, 13VDC/3.1A, 5.1VDC/2.0A(*VENICE 20"*)

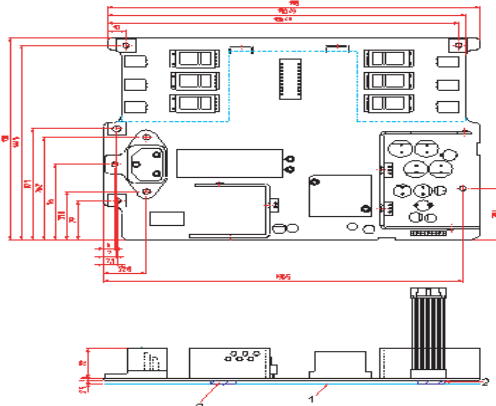
2.0 RELATED DOCUMENTS

3.0 REQUIREMENTS

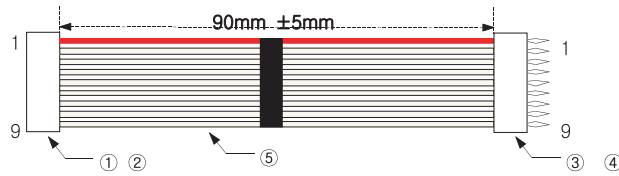
3.1 PHYSICAL CHARACTERISTICS

3.1.1 DIMENSION & APPEARANCE


1) DIMENSION (Unit:mm) 148(L) *135(W)*26(H)



3.1.2 WIRE SPEC



| NO | NAME OF PARTS | SPECIFICATION | UNIT | Q`TY | REMARK |
|----|---------------|------------------------|------|------|------------|
| 1 | HOUSING | SMH200-09 | EA | 1 | YEONHO |
| 2 | TERMINAL | YST200 | EA | 9 | YEONHO |
| 3 | HOUSING | YBNH200-09/B2011H02-09 | EA | 1 | YEONHO/JWT |
| 4 | TERMINAL | YBST200/B2011TOB-B2E | EA | 9 | YEONHO/JWT |
| 5 | LEAD WIRE | UL1007 #24 | EA | 1 | UL/CSA |



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DOC. NO.: BN44-00115B CB

REF. NO.:

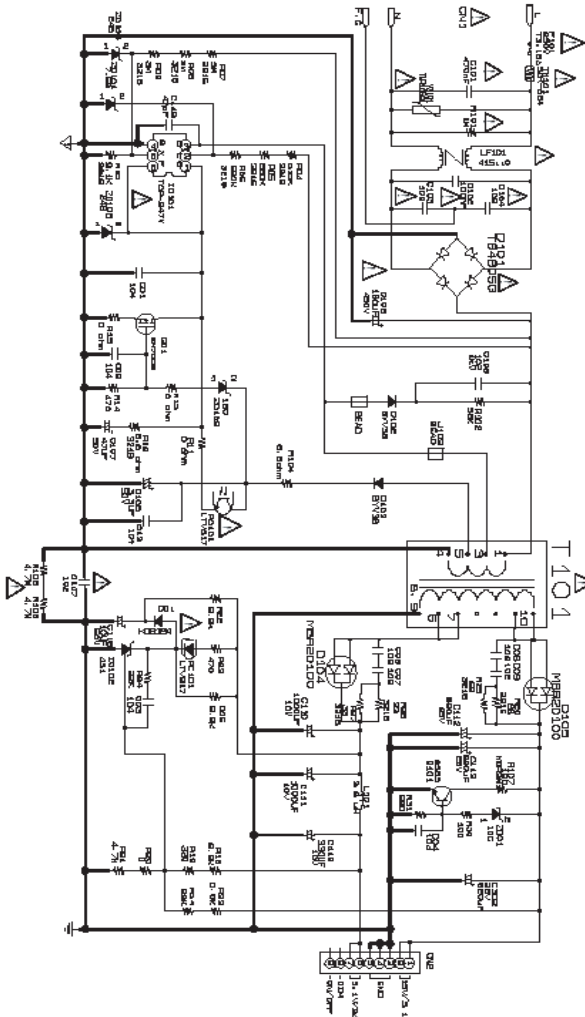
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PART SPEC

4.0 INTERNAL CIRCUIT DIAGRAM





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DOC. NO.: BN44-00115B CB

REF. NO.:

REV.: 00

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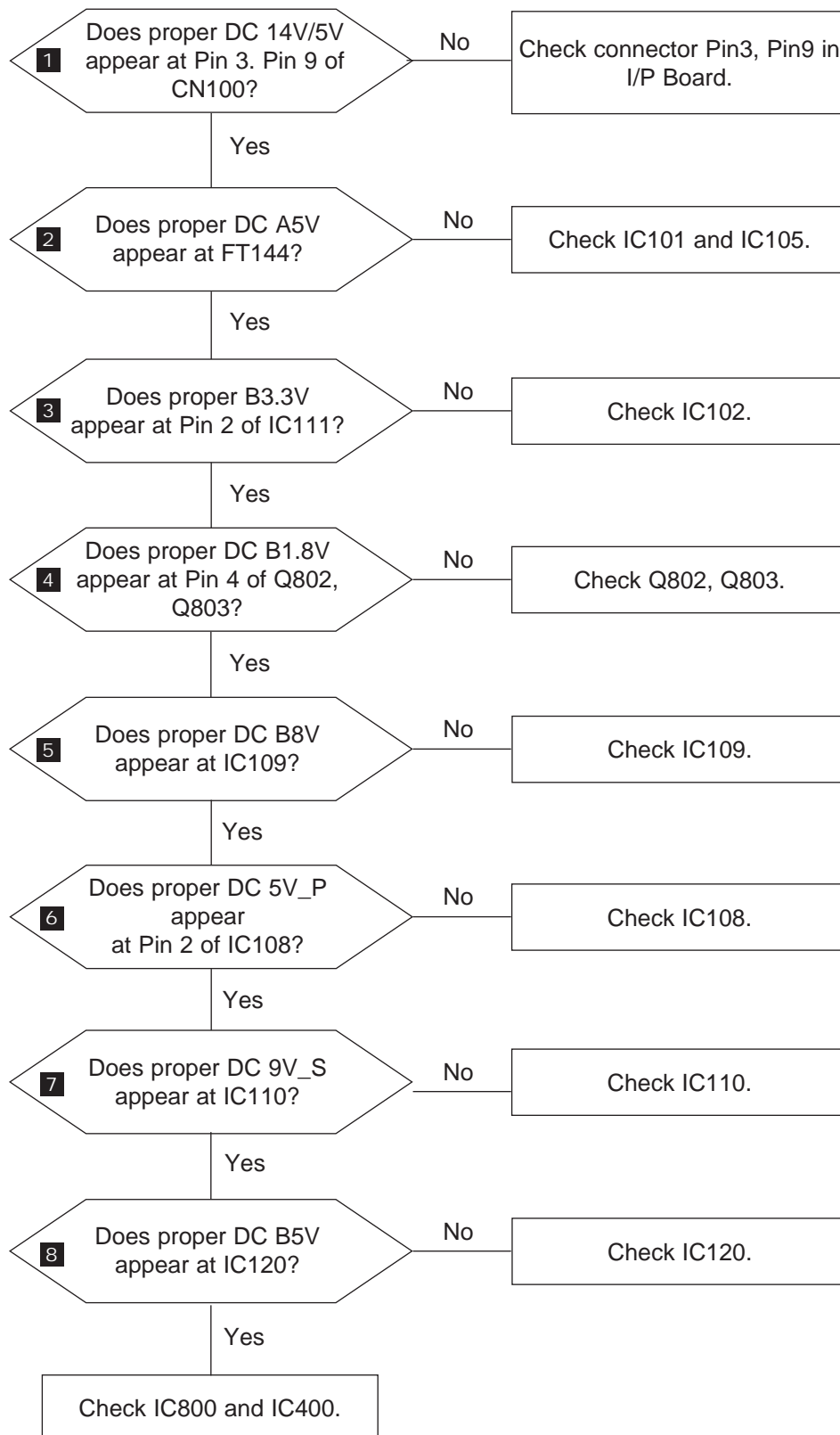
4 Troubleshooting

4-1 First Checklist for Troubleshooting

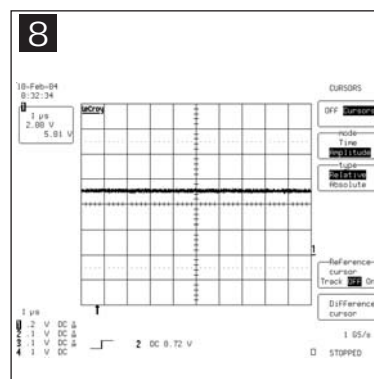
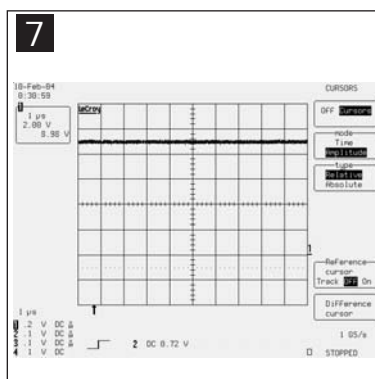
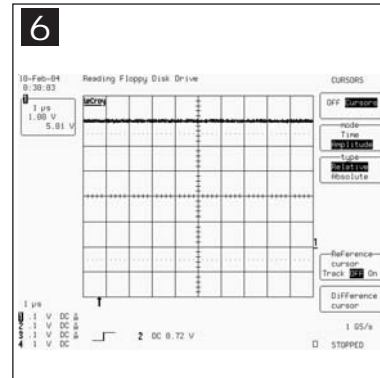
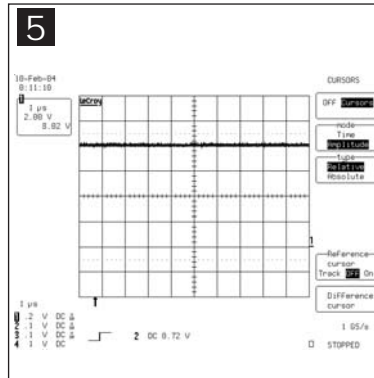
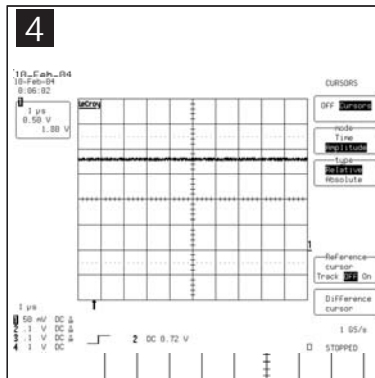
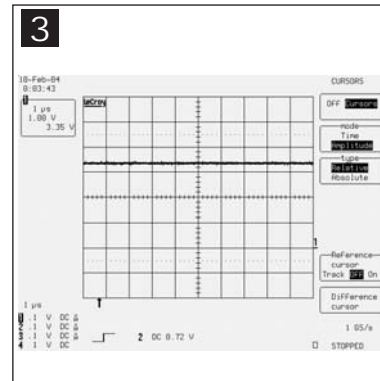
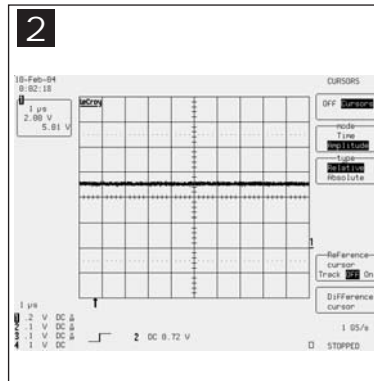
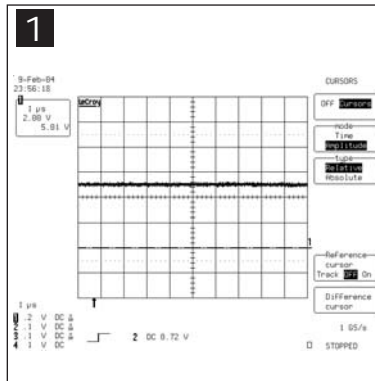
1. Check the various cable connections first.
 - Check to see if there is a burnt or damaged cable.
 - Check to see if there is a disconnected cable connection or a connection is too loose.
 - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the Video Board.
3. Check the voltage in and out between the SMPS ↔ Video Board, between the SMPS ↔ X, Y Drive Board, and between the Logic Boards.

4-2 Checkpoints by Error Mode

4-2-1 No Power

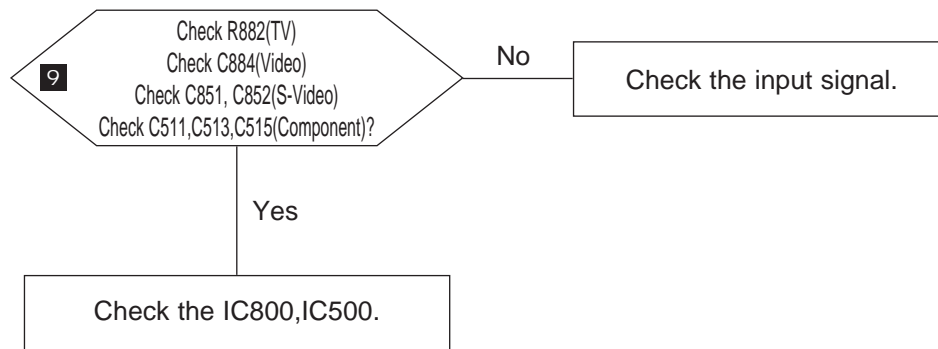


WAVEFORMS

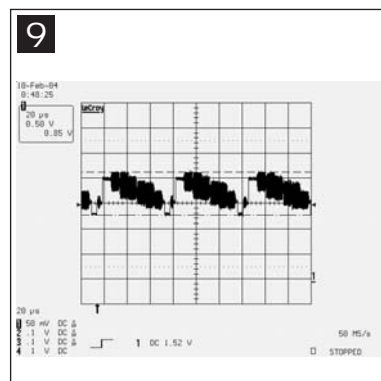


4 Troubleshooting

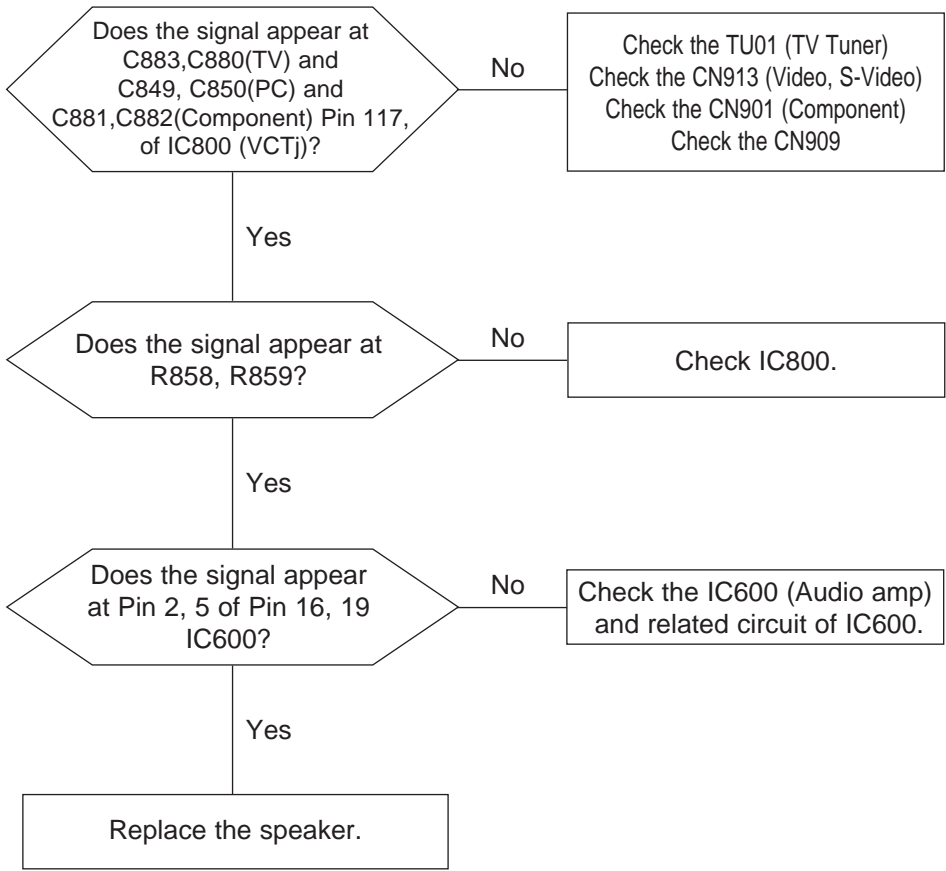
4-2-2 No Picture (TV, Video, S-Video, Component)



WAVEFORMS

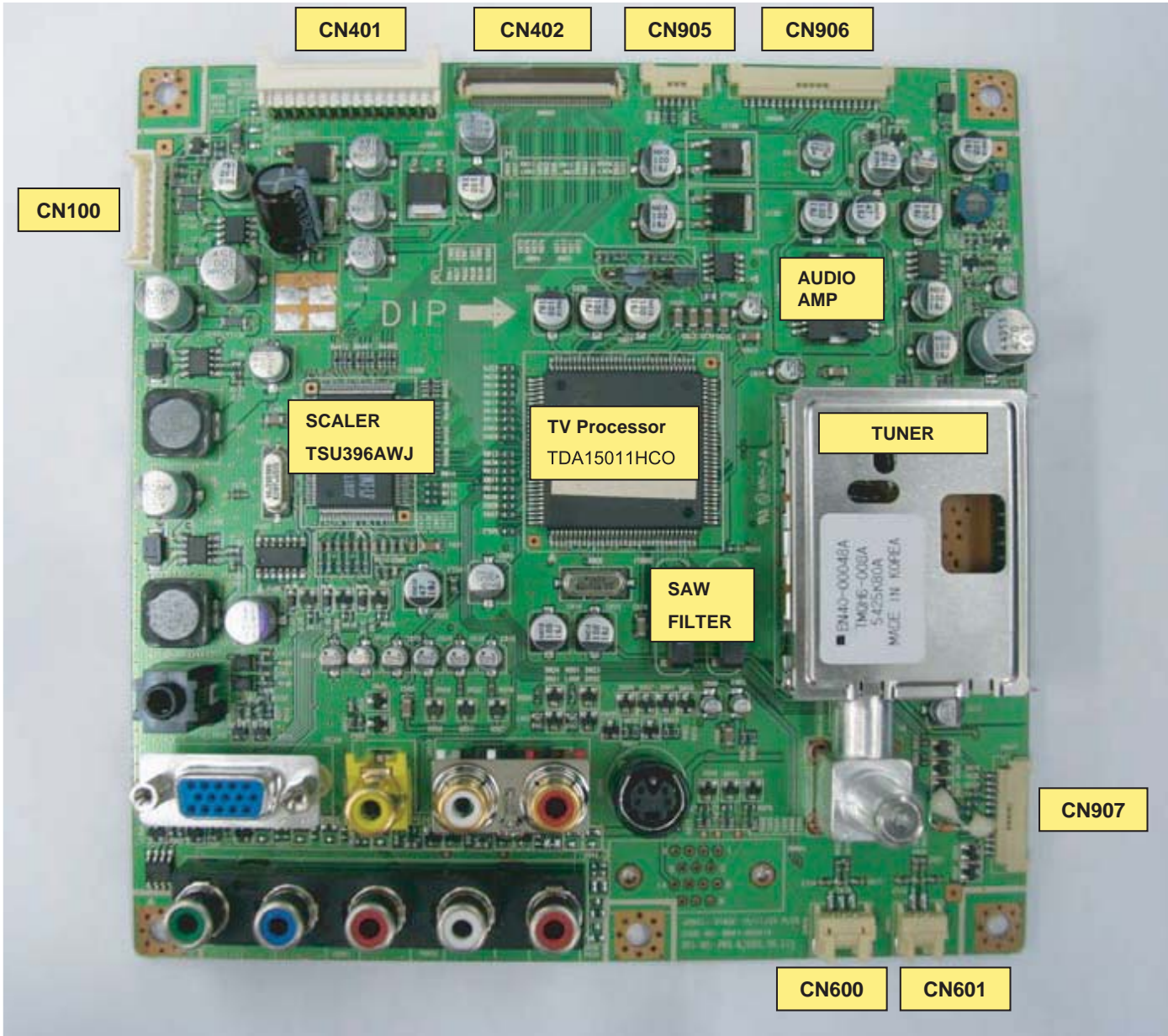


4-2-3 No Sound



Memo

8 Wiring Diagram



- CN100(9P) : To IP Board
- CN401(30P) : To 15", 17" Panel
- CN402(50P) : To 20" Panel
- CN905(5P) : To Program Download Jig
- CN906(20P) : To Scaler Test Jig
- CN600(3P) : To Left Speaker
- CN601(2P) : To Right Speaker
- CN907(12P) : To Function Board

Memo