



# COLOR TELEVISION RECEIVER

Chassis : S62A(P)\_OZ  
Model : WS32Z30HEAXBWT  
WS32Z30HEAXSAP

# ***SERVICE*** Manual

## COLOR TELEVISION RECEIVER



WS-32Z30HE

## FEATURES

- Slimfit (Low Depth) CRT
- DNle Lite Adopted
- 480P/576P/1080i
- Full 100Hz



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Printed in Korea  
**AA82-02486A**

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## 1. Precaution

To avoid possible damages or electric shocks or exposure to radiation, follow the instructions below with regard to safety, installation, service and ESD.

### 1-1 Safety Precautions

1. Make sure all protective devices are properly installed including non-metallic handles and compartment covers when installing or re-installing the chassis or chassis assemblies.
2. Make sure that no gaps exist between the cabinets for children to insert their fingers in to prevent children from receiving electric shocks. Gaps mentioned above include ventilation holes of a too great magnitude between the vacuum tube and the cabinet mask, and the improper installation of the rear cabinet.

Errors may occur when the resistance is below  $1.0 \text{ M}\Omega$  or over  $5.2 \text{ M}\Omega$ .

In these cases, make sure that the device is repaired before sending it back to the customer.

3. Check for Electricity Leakage (Figure 1-1)  
Warning: Do not use an insulated transformer for checking the leakage. Use only those current leakage testers or mirroring systems that comply with ANSIC 101.1 and the Underwriter Laboratory's specifications (UL1410, 59.7).

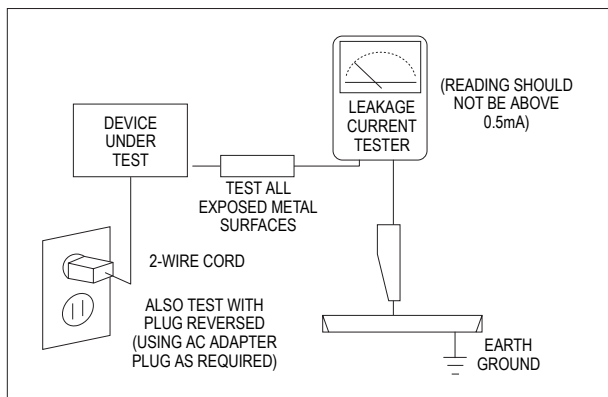


Fig. 1-1 AC Leakage Test

4. A high voltage is maintained within the specified limits using safety parts, calibration and tolerances. When voltage exceeds the specified limits, check each special part.



5. Warning for Engineering Changes:  
Never make any changes or additions to the circuit design or the internal part for this product.  
Ex: Do not add any audio or video accessory connectors. This might cause physical damage.  
Furthermore, any changes or additions to the original design/engineering will invalidate the warranty.
6. Warning - Hot Chassis:  
Some TV chassis are directly connected to one end of the AC power cord for electrical reasons.  
Without insulated transformers, the product can only be repaired safely when the chassis is connected to the earthed end of the AC power source.

To make sure the AC power cord is properly connected, follow the instructions below. Use the voltmeter to measure the voltage between the chassis and the earthed ground. If the measurement is over 1.0V, unplug the AC power cord and change the polarity before re-inserting it. Measure the voltage between the chassis and the ground again.

7. Some TV chassis are shipped with an additional secondary grounding system. The secondary system is adjacent to the AC power line. These two grounding systems are separated in the circuit using an unbreakable/unchangeable insulation material.
8. When any parts, material or wiring appear overheated or damaged, replace them with new regular ones immediately. When any damage or overheating is detected, correct this immediately and make a regular check of possible errors.
9. Check for the original shape of the lead, especially that of the antenna wiring, any sharp edges, the AC power and the high voltage power. Carefully check if the wiring is too tight, incorrectly placed or loose. Never change the space between the part and the printed circuit board. Check the AC power cord for possible damages. Keep the part or the lead away from any heat-emitting materials.

10. Safety Indication:

Some electrical circuits or device related materials require special attention to their safety features, which cannot be viewed by the naked eye. If an original part is replaced with another irregular one, the safety or protective features will be lost even if the new one has a higher voltage or more watts.

Critical safety parts should be bracketed with ( ). Use only regular parts for replacements (in particular, flame resistance and dielectric strength specifications). Irregular parts or materials may cause electric shock or fire.

## 1-2 Servicing Precautions

---

Warning 1: First carefully read the "Safety Instruction" in this service manual.

When there is a conflict between the service and the safety instructions, follow the safety instruction at all times.

Warning 2: Any electrolytic capacitor with the wrong polarity will explode.

1. The service instructions are printed on the cabinet, and should be followed by any service personnel.
2. Make sure to unplug the AC power cord from the power source before starting any repairs.
  - (a) Remove or re-install parts or assemblies.
  - (b) Disconnect the electric plug or connector, if any.
  - (c) Connect the test part in parallel with the electrolytic capacitor.
3. Some parts are placed at a higher position than the printed board. Insulated tubes or tapes are used for this purpose. The internal wiring is clamped using buckles to avoid contact with heat emitting parts. These parts are installed back to their original position.
4. After the repair, make sure to check if the screws, parts or cables are properly installed. Make sure no damage is caused to the repaired part and its surroundings.
5. Check for insulation between the blade of the AC plug and that of any conductive materials (i.e. the metal panel, input terminal, earphone jack, etc).
6. Insulation Check Process: Unplug the power cord from the AC source and turn the switch on. Connect the insulating resistance meter (500v) to the AC plug blade.  
  
The insulating resistance between the blade of the AC plug and that of the conductive material should be more than 1 M $\Omega$ .
7. Any B+ interlock should not be damaged. If the metal heat sink is not properly installed, no connection to the AC power should be made.
8. Make sure the grounding lead of the tester is connected to the chassis ground before connecting to the positive lead. The ground lead of the tester should be removed last.
9. Beware of risks of any current leakage coming into contact with the high-capacity capacitor.
10. The sharp edges of the metal material may cause physical damage, so ensure wearing protective gloves during the repair.

## 1-3 Static Electricity Precautions

---

1. Some semi-conductive ("solid state") devices are vulnerable to static electricity. These devices are known as ESD. ESD includes the integrated circuit and the field effect transistor. To avoid any materials damage from electrostatic shock, follow the instructions described below.
2. Remove any static electricity from your body by connecting the earth ground before handling any semi-conductive parts or ass'ys. Alternatively, wear a dischargeable wrist-belt.  
(Make sure to remove any static electricity before connecting the power source - this is a safety instruction for avoiding electric shock)
3. Remove the ESD ass'y and place it on a conductive surface such as aluminum foil to prevent accumulating static electricity.
4. Do not use any Freon-based chemicals. Such chemicals will generate static electricity that causes damage to the ESD.
5. Use only grounded-tip irons for soldering purposes.
6. Use only anti-static solder removal devices. Most solder removal devices do not support an anti-static feature. A solder removal device without an anti-static feature can store enough static electricity to cause damage to the ESD.
7. Do not remove the ESD from the protective box until the replacement is ready. Most ESD replacements are covered with lead, which will cause a short to the entire unit due to the conductive foam, aluminum foil or other conductive materials.
8. Remove the protective material from the ESD replacement lead immediately after connecting it to the chassis or circuit ass'y.
9. Take extreme caution in handling any uncovered ESD replacements. Actions such as brushing clothes or lifting your leg from the carpet floor can generate enough static electricity to damage the ESD.

### CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

## 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. Check the basics of the screen test.  
- Image position/size, Tilt adjustment

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## 2. Product Specification

### 2-1 Product Features

| Block   | Specification  | EU  | East asia/CIS   | Remark |
|---------|--|---|---|--------|
| CRT     | - Slimmer than existing CRTs<br>Existing: 495mm → Slimfit : 365mm  | Vixlim CRT  | Vixlim CRT  |        |
| RF Part | - Same as for the Predator(S61A) Model   | TMQZ2-402A, PAL-CW<br>TMQZ2-408A, PAL-CW  | TMQZ2-401A, PAL-CS<br>TMQZ2-410A, PAL-CS  |        |
| Power   | - Input Voltage : AC230V (Europe)<br>- Stand-By : Less than 3W   | STR-X6750F  | STR-X6750F  |        |
| Video   | - DNle Lite<br>- PAL/SECAM/NT4.43<br>- 4H Comb Filter<br>- Interlace 100Hz<br>- 480i, 576i, 480p, 576p, 1080i/50Hz | SDP41<br>MST9883CR<br>VSP9407-C4<br>CXA2165Q  | SDP41<br>MST9883CR<br>VSP9407-C4<br>CXA2165Q  |        |
| Audio   | - Output : 10W x 2<br>- Function : Nicam, Virtual Dolby  | MSP3411G, TDA7297   | MSP3411G, TDA7297   |        |
| Cabinet | - New Front and Back Cabinets<br>- 184mm of saved space compared to the existing model<br>A20: 580mm → Z30: 396mm  | Z30 (Core) Design Applied<br>FPTV Looking Design<br>Black Bezel 2Tone<br>Color Design | Z30 (Core) Design Applied<br>FPTV Looking Design<br>Black Bezel 2Tone<br>Color Design |        |

#### ■ Core Parts Functions

- VSP9407 : RF-CVBS, EXT-CVBS, FRONT Y,C,SCART1 R G B, PIP-CVBS Input and Video Signal Processing.
- CXA2151 : 1080i /50Hz Identy
- BA7657F : Component (Y, Pb, Pr) 1, 2 Switching
- MST9883A : 480i, 576i, 480p, 576p, 1080i/50Hz
- SPD41(DNle Lite) : Provides a near natural color visual quality through noise reduction and a visual quality enhancement algorithm.
- MSP3411G : Provides SiF, analog audio and digital audio signal input and decoding functions.
- CXA2165Q : H-out, VD-P, VD-N, RGB out, Video and Deflection Signal Processing.
- SDA5550M : II C-Communication, Master Control Micom
- M27W201 : ROM MICOM

## 2-2 Key Features

| Model                  | WS-32Z308P<br>(Europe) | WS-32Z30HE<br>(Southeast Asia) | WS-32Z30HEQ<br>(CIS) |
|------------------------|------------------------|--------------------------------|----------------------|
| Voltage                | AC230V                 | 100~240V                       | 160~300V             |
| Frequency of Operation | 50/60 Hz               | 50/60 Hz                       | 50/60 Hz             |
| Dimensions(mm)         | 934X399X568            | 934X399X568                    | 934X399X568          |
| Weight                 | 54.5Kg                 | 54.5Kg                         | 54.5Kg               |

### ■ H/W Configuration

- Slimfit (Low Depth) CRT adopted
- DNIe adopted: Provides a high visual quality.
- 480i, 576i, 480p, 576p, 1080i/50Hz
- Multi System
- Interlace 100Hz
- Multi PIP

### ■ S/W Configuration

- 200 Page TTX(EAST, ASIA, CIS), 10page TTX(EAST ASIA, CIS)
- Multi System PAL/SECAM/NTSC4.43/NTSC3.58
- ATS, Auto wide, CM Label, Pre channel, On/off timer
- New LTI OSD

### ■ Picture

- Enhance : DNIe-Lite(6X) (Digital Natural Image Engine)
- System : PAL/SECAM/NTSC4.43/NTSC3.58
- Interlace 100Hz (Progressive, Natural, Digital)
- Black Level expansion, CTI, VM, LTI
- AKB(Auto kinetic Bias)
- Still picture, Digital Noise reduction
- Comb Filter : 4H Comb filter (option)
- Panorama : Wide Model

### ■ Sound

- Sound System : Virtual Dolby Digital, Nicam Stereo
- Output : 10W+10W
- AVL, Melody, Auto Stereo, Auto Mute, Equalizer

### ■ Feature

- Component Interface(480i, 576i, 480p, 576p, 1080i/50Hz Y/Pb/Pr)
- Picture Size : 16:9/Panorama/Zoom1/Zoom2/4:3
- Auto Program
- Sleep Timer : 180 Min.
- Clock
- Zoom, Previous channel, White Screen, Color Tone
- Multi PIP



**■ In/Out Terminals**

- Side : 1 CVBS Input, 1 S-VHS Input
- Rear
  - \*EU, CIS : 42p SCART Input/Output (SCART1 RGB Input)  
Component1 input : 480i/576i/480p/576p/1080i(50Hz)  
Audio Output
  - \*EAST-ASIA : 9p RCA Input/Output (AV OUT, AV IN1, AV IN2)  
Component1 input : 480i/ 576i/ 480p/ 576p/ 1080i(50Hz)  
Component2 input : 480i/ 576i/ 480p/ 576p/ 1080i(50Hz)

**■ Remocon**

- Universal : TM76 (DNle TOGGLE KEY)





**■ Power Supply**

- AC230 50Hz/60Hz (Europe)
- AC100-240V 50Hz/60Hz (East Asia)
- AC160-300 50Hz/60Hz (CIS)


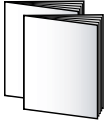




**■ Power Consumption**

- Standby-by : 3W
- Max Power : 200W / 230W

## 2-3 Specifications Analysis

| Model               |                              | WS-32A108PG   | WS-32A208PY   | WS-32Z308P<br>(Europe)  | WS-32Z30HE<br>(EAST-ASIA/CIS)   |
|---------------------|------------------------------|---|---|---|---|
| Chassis             |                              | K55A  | S61A  | S62A  | S62A  |
| Design              |                              |  |  |  |  |
| Basic               | Product Type                 | FLAT CRT  | FLAT CRT  | FLAT CRT  | FLAT CRT  |
|                     | Digital Display              |   |   | 1080i(50Hz)/576p/480p   | 1080i(50Hz)/576p/480p   |
|                     | Screen Size                  | 32  | 32  | 32  | 32  |
|                     | Aspect Ratio                 | 16:09   | 16:09   | 16:09   | 16:09   |
| Visual Quality      | Progressive Scan             | ○   | ○   | ○   | ○   |
|                     | Digital Comb Filter          | 4H-COMB   | 4H-COMB   | 4H-LINE   | 4H-LINE   |
|                     | Screen Pitch                 | 0.68(HI FINE)   | 0.68(HI FINE)   | 0.73(HI FINE)   | 0.73(HI FINE)   |
|                     | Digital Noise Reduction      | ○   | ○   | ○   | ○   |
|                     | Auto Kinetic Bias (AKB)      | ○   | ○   | ○   | ○   |
|                     | Visual Quality Enhancement   | DNle  | DNle  | DNle Lite   | DNle Lite   |
|                     | 3:2 Pull Down Support        | ○   | ○   | ○   | ○   |
| Audio               | Bass/Treble/Balance          | ×   | ×   | ×   | ×   |
|                     | Equalizer                    | 5 Band  | 5 Band  | 5 Band  | 5 Band  |
|                     | Automatic Volume Level (AVL) | ○   | ○   | ○   | ○   |
|                     | Surround                     | Virtual-Dolby   | Virtual-Dolby   | Virtual-Dolby   | Virtual-Dolby   |
|                     | Speaker System               | SEMI-TINT   | SEMI-TINT   | Direct  | Direct  |
|                     | Speaker Output               | 15W +15W  | 15W +15W  | 10W +10W  | 10W +10W  |
| Function            | Dual Screen function         | ○   | ○   | ○   | ○   |
|                     | Double Screen                | ○   | ○   | ○   | ○   |
|                     | TTX                          | 200Page   | 200Page   | 200Page   | 10Page  |
|                     | Still Picture                | ○   | ○   | ○   | ○   |
|                     | Auto Jack Recognition        | ×   | ×   | ×   | ×   |
| Ports               | Antenna In                   | Rear:1  | Rear:1  | Rear:1  | Rear:1  |
|                     | External In                  | Rear:3, Side:1  | Rear:3, Side:1  | Rear:3, Side:1  | Rear:3, Side:1/ Rear:4, Side:1  |
|                     | S-Video                      | Rear:1, Side:1  | Rear:1, Side:1  | Rear:1, Side:1  | Rear:1, Side:1  |
|                     | Digital Signal In (Y/Pb/Pr)  | Rear:2  | Rear:2  | Rear:2  | Rear:2  |
|                     | PC                           | ×   | ×   | ×   | ×   |
|                     | DVI                          | ×   | ×   | ×   | ×   |
|                     | HDMI                         | ×   | ×   | ×   | ×   |
|                     | Digital Audio Out            | ○   | ○   | ○   | ○   |
| Video Out/Audio Out | Rear:1                       | Rear:1  | Rear:1  | Rear:1  |   |

## 2-4 Accessories

| Accessories                                    |   | Item  | Item code                  | Remark                 |
|--|---|---|----------------------------|------------------------|
| Supplied Accessories                           |  | Remote Control<br>AAA Alkaline Battery (2)  | AA59-00357D<br>4301-000121 | Samsung Service center |
|  |  | Owner's Instructions<br>Safety Guide Manual | AA68-03562A<br>AA68-03242E |                        |
|  |  | Warranty Card<br>Registration Card          | AA68-03278B<br>AA68-03576A |                        |
| Accessories that can be purchased additionally |  | Video Cable /<br>Audio Cable                | -                          | Internal shopping mall |
|  |  | Antenna Cable                               | -                          |                        |
|  |  | Component Cable                             | -                          |                        |

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## 3. Alignment & Adjustment

### 3-1 Service Instruction

#### 1. General Adjustment :

In general, a color TV can provide ideal visual quality by adjusting the basic settings such as the vertical size, horizontal size, focus, etc.

Display a black and white picture on the screen to check if the picture is clearly displayed.

If there are some 'spotted' points on the screen when displaying a black and white picture, degauss the screen using the degauss coil. If the spotted points remain, re-adjust the purity and the convergence. This completes the basic performance examination.

#### ⚠ Notice.

- These adjustments and the check list are only applied to S62A chassis-applied models.
- Only use 230V for the measurement set. It is recommended using an insulation transformer when supplying power to the set so as to prevent shock to the set or to yourself.
- These adjustment specifications have been created on the basis of the domestic S62A chassis-applied remote control model. Some of the contents may be changed subject to the sales location and the product specifications.

#### 2. When replacing the System Board :

Since the software is loaded to the flash memory of the system board, check the version of the software after replacing the board.

To check the version of the software, Enter service mode press the key on the remote control according to the following sequenu.(in stand-by status) Info→Menu→Mute→Power→ON

The software information will then be displayed below the OSD menu.

The notation of the software information : For example, T\_OZPEU\_1000 refers to "OZ BASIC MODEL Europe. ver.1000".

Since the settings including the Channel information, Deflection, etc. are saved to the nvRAM, reconfigure these settings when replacing the System Board.

#### 3. When replacing the Deflection Board :

Tilt adjustment, focus adjustment, screen voltage setting and W/B adjustment are all required.

#### 4. When replacing the Power Board : No adjustments required.

#### 5. When replacing the CRT Ass'y : No adjustments required.

#### 6. When replacing the front panel master power switch : No adjustments required.

#### 7. When replacing the Side AV : No adjustments required.

#### 8. When replacing the control switch : No adjustments required.

## 3-2 How to Access Service Mode

---

1. To enter Service Mode, press the keys on the remote control according to the following sequence. (in Stand-by status)

Info → Menu → Mute → Power On

※ When failing to enter Service Mode, repeat the procedure above.

2. The initial screen of Service Mode.

```

Service/ T-OZPEU-XXXX
Deflection
480i/576p Defle off
1080i Defle off
Video Adjust 1
Video Adjust 2
Video Adjust 3
Video Adjust 4
Video Adjust 5
Video Adjust 6
VGA Video Adjust
DTV Video Adjust
Video Adjust DNle
DNle Enhancement
YC Delay
EEPROM
Option (XX XX XX)
ROM Checksum (0000)
Reset / XX-XX-XX
    
```

3. Functions of the Keys within Service Mode

|       |   |
|-------|---|
| MENU  | Show all menus                          |
| ▲ / ▼ | Move the cursor to select an item.      |
| ◀ / ▶ | Adjust the selected configuration value |

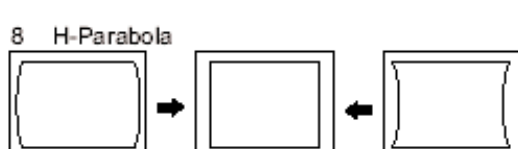
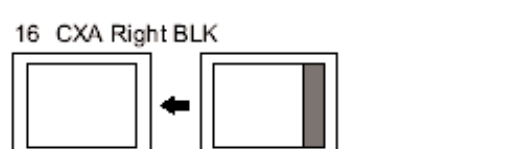
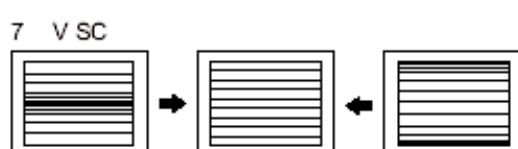
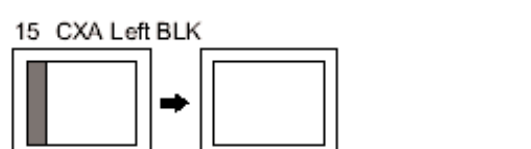
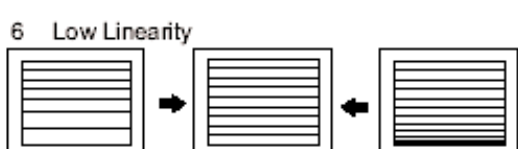
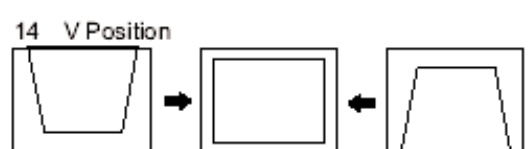
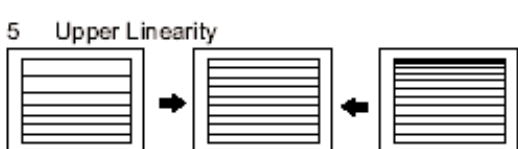
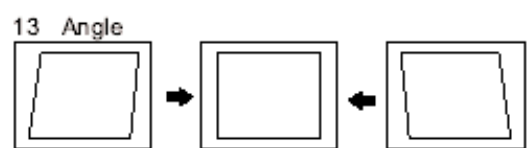
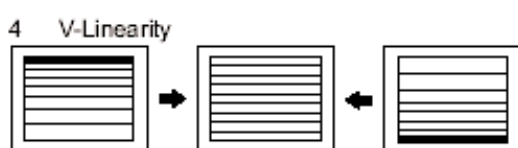
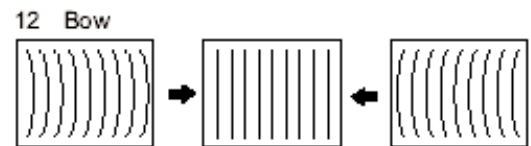
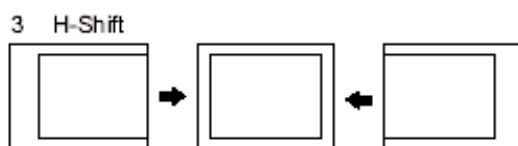
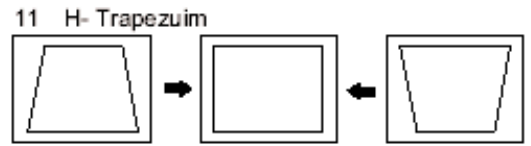
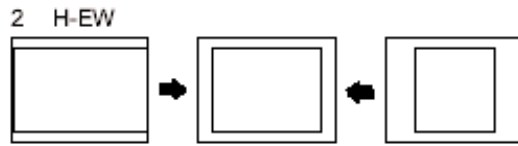
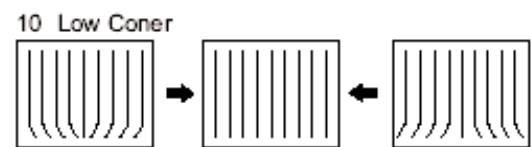
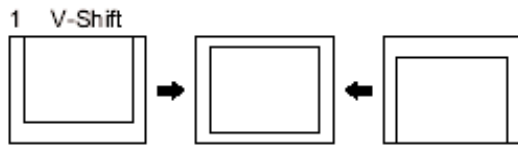
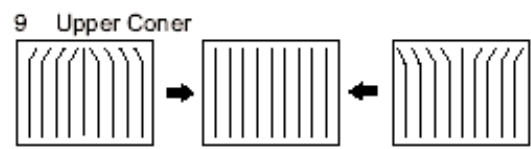
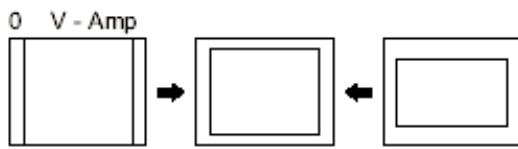
### 3-3 Factory Data

#### 1. Deflection(PAL)

| No | Item                                 | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|--------------------------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | V Amp                                | 0~63  | 42                | 42                       | 42                 | Adjust |
| 1  | V Shift                              | 0~63  | 23                | 23                       | 23                 | Adjust |
| 2  | H EW                                 | 0~63  | 45                | 45                       | 45                 | Adjust |
| 3  | H Shift                              | 0~63  | 37                | 37                       | 37                 | Adjust |
| 4  | V Linearity                          | 0~15  | 6                 | 6                        | 6                  | FIX    |
| 5  | Upper Linearity                      | 0~15  | 4                 | 4                        | 4                  | FIX    |
| 6  | Lower Linearity                      | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 7  | V SC                                 | 0~15  | 6                 | 6                        | 6                  | FIX    |
| 8  | H Parabola                           | 0~63  | 47                | 47                       | 47                 | Adjust |
| 9  | Upper Corner                         | 0~63  | 33                | 33                       | 33                 | Adjust |
| 10 | Lower Corner                         | 0~63  | 39                | 39                       | 39                 | Adjust |
| 11 | H Trapezium                          | 0~63  | 22                | 22                       | 22                 | Adjust |
| 12 | Bow                                  | 0~63  | 34                | 34                       | 34                 | Adjust |
| 13 | Angle                                | 0~63  | 28                | 28                       | 28                 | Adjust |
| 14 | V Position                           | 0~63  | 35                | 35                       | 35                 | FIX    |
| 15 | CXA 2151 Sub01                       | 0~255 | 68                | 68                       | 68                 | FIX    |
| 16 | CXA 2151 Sub01                       | 0~255 | 1                 | 1                        | 1                  | FIX    |
| 17 | UP-UCG (Up Corner Semi Control)      | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 18 | LO-UCG (Low Corner Semi Control)     | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 19 | UP-UCP (Up Corner position Control)  | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 20 | LO-UCP (Low Corner position Control) | 0~3   | 0                 | 0                        | 0                  | FIX    |

#### 2. Deflection(NTSC)

| No | Item                                 | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|--------------------------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | V Amp                                | 0~63  | -1                | -1                       | -1                 | Adjust |
| 1  | V Shift                              | 0~63  | -2                | -2                       | -2                 | Adjust |
| 2  | H EW                                 | 0~63  | 5                 | 5                        | 5                  | Adjust |
| 3  | H Shift                              | 0~63  | 8                 | 8                        | 8                  | Adjust |
| 4  | V Linearity                          | 0~15  | -2                | -2                       | -2                 | Adjust |
| 5  | Upper Linearity                      | 0~15  | -4                | -4                       | -4                 | FIX    |
| 6  | Lower Linearity                      | 0~15  | 1                 | 1                        | 1                  | FIX    |
| 7  | V SC                                 | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 8  | H Parabola                           | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 9  | Upper Corner                         | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 10 | Lower Corner                         | 0~63  | -1                | -1                       | -1                 | Adjust |
| 11 | H Trapezium                          | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 12 | Bow                                  | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 13 | Angle                                | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 14 | V Position                           | 0~63  | 0                 | 0                        | 0                  | FIX    |
| 15 | CXA 2151 Sub01                       | 0~255 | 68                | 68                       | 68                 | FIX    |
| 16 | CXA 2151 Sub01                       | 0~255 | 1                 | 1                        | 1                  | FIX    |
| 17 | UP-UCG (Up Corner Semi Control)      | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 18 | LO-UCG (Low Corner Semi Control)     | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 19 | UP-UCP (Up Corner position Control)  | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 20 | LO-UCP (Low Corner position Control) | 0~3   | 0                 | 0                        | 0                  | FIX    |





## 3. 480P DEFLECTION OFFSET

| No | Item                                 | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|--------------------------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | V Amp                                | 0~63  | -3                | -3                       | -3                 | Adjust |
| 1  | V Shift                              | 0~63  | -1                | -1                       | -1                 | Adjust |
| 2  | H EW                                 | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 3  | H Shift                              | 0~63  | -2                | -2                       | -2                 | Adjust |
| 4  | V Linearity                          | 0~15  | -2                | -2                       | -2                 | Adjust |
| 5  | Upper Linearity                      | 0~15  | -3                | -3                       | -3                 | FIX    |
| 6  | Lower Linearity                      | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 7  | V SC                                 | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 8  | H Parabola                           | 0~63  | -1                | -1                       | -1                 | Adjust |
| 9  | Upper Corner                         | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 10 | Lower Corner                         | 0~63  | -2                | -2                       | -2                 | Adjust |
| 11 | H Trapezium                          | 0~63  | 9                 | 9                        | 9                  | Adjust |
| 12 | Bow                                  | 0~63  | 0                 | 0                        | 0                  | Adjust |
| 13 | Angle                                | 0~63  | 0                 | 0                        | 0                  | Adjust |
| 14 | V Position                           | 0~63  | 0                 | 0                        | 0                  | FIX    |
| 15 | CXA 2151 Sub01                       | 0~255 | 232               | 232                      | 232                | FIX    |
| 16 | CXA 2151 Sub01                       | 0~255 | 97                | 97                       | 97                 | FIX    |
| 17 | UP-UCG (Up Corner Semi Control)      | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 18 | LO-UCG (Low Corner Semi Control)     | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 19 | UP-UCP (Up Corner position Control)  | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 20 | LO-UCP (Low Corner position Control) | 0~3   | 0                 | 0                        | 0                  | FIX    |

## 4. 576P DEFLECTION OFFSET

| No | Item                                 | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|--------------------------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | V Amp                                | 0~63  | 1                 | 1                        | 1                  | Adjust |
| 1  | V Shift                              | 0~63  | -3                | -3                       | -3                 | Adjust |
| 2  | H EW                                 | 0~63  | -1                | -1                       | -1                 | Adjust |
| 3  | H Shift                              | 0~63  | -1                | -1                       | -1                 | Adjust |
| 4  | V Linearity                          | 0~15  | 2                 | 2                        | 2                  | Adjust |
| 5  | Upper Linearity                      | 0~15  | -1                | -1                       | -1                 | FIX    |
| 6  | Lower Linearity                      | 0~15  | -1                | -1                       | -1                 | FIX    |
| 7  | V SC                                 | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 8  | H Parabola                           | 0~63  | -3                | -3                       | -3                 | Adjust |
| 9  | Upper Corner                         | 0~63  | 0                 | 0                        | 0                  | Adjust |
| 10 | Lower Corner                         | 0~63  | -1                | -1                       | -1                 | Adjust |
| 11 | H Trapezium                          | 0~63  | 5                 | 5                        | 5                  | Adjust |
| 12 | Bow                                  | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 13 | Angle                                | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 14 | V Position                           | 0~63  | 0                 | 0                        | 0                  | FIX    |
| 15 | CXA 2151 Sub01                       | 0~255 | 232               | 232                      | 232                | FIX    |
| 16 | CXA 2151 Sub01                       | 0~255 | 97                | 97                       | 97                 | FIX    |
| 17 | UP-UCG (Up Corner Semi Control)      | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 18 | LO-UCG (Low Corner Semi Control)     | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 19 | UP-UCP (Up Corner position Control)  | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 20 | LO-UCP (Low Corner position Control) | 0~3   | 0                 | 0                        | 0                  | FIX    |

## 5. 1080I DEFLECTION EFFECT

| No | Item                                 | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|--------------------------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | V Amp                                | 0~63  | 8                 | 8                        | 8                  | Adjust |
| 1  | V Shift                              | 0~63  | -2                | -2                       | -2                 | Adjust |
| 2  | H EW                                 | 0~63  | -35               | -35                      | -35                | Adjust |
| 3  | H Shift                              | 0~63  | 3                 | 3                        | 3                  | Adjust |
| 4  | V Linearity                          | 0~15  | 0                 | 0                        | 0                  | Adjust |
| 5  | Upper Linearity                      | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 6  | Lower Linearity                      | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 7  | V SC                                 | 0~15  | -3                | -3                       | -3                 | FIX    |
| 8  | H Parabola                           | 0~63  | -20               | -20                      | -20                | Adjust |
| 9  | Upper Corner                         | 0~63  | 2                 | 2                        | 2                  | Adjust |
| 10 | Lower Corner                         | 0~63  | -2                | -2                       | -2                 | Adjust |
| 11 | H Trapezium                          | 0~63  | 5                 | 5                        | 5                  | Adjust |
| 12 | Bow                                  | 0~63  | -2                | -2                       | -2                 | Adjust |
| 13 | Angle                                | 0~63  | 1                 | 1                        | 1                  | Adjust |
| 14 | V Position                           | 0~63  | 0                 | 0                        | 0                  | FIX    |
| 15 | CXA 2151 Sub01                       | 0~255 | 196               | 196                      | 196                | FIX    |
| 16 | CXA 2151 Sub01                       | 0~255 | 97                | 97                       | 97                 | FIX    |
| 17 | UP-UCG (Up Corner Semi Control)      | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 18 | LO-UCG (Low Corner Semi Control)     | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 19 | UP-UCP (Up Corner position Control)  | 0~3   | 0                 | 0                        | 0                  | FIX    |
| 20 | LO-UCP (Low Corner position Control) | 0~3   | 0                 | 0                        | 0                  | FIX    |

## 6. VIDEO ADJUST 1

| No | Item            | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|-----------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | R CutOff        | 0~63  | 35                | 35                       | 35                 | Adjust |
| 1  | G CutOff        | 0~63  | 32                | 32                       | 32                 | FIX    |
| 2  | B CutOff        | 0~63  | 33                | 33                       | 33                 | Adjust |
| 3  | Color On/Off    | 0~01  | 1                 | 1                        | 1                  | FIX    |
| 4  | CR OffSet       | 0~63  | 28                | 28                       | 28                 | Adjust |
| 5  | CB OffSet       | 0~63  | 28                | 28                       | 28                 | Adjust |
| 6  | R Drive         | 0~63  | 37                | 37                       | 37                 | Adjust |
| 7  | G Drive         | 0~63  | 38                | 38                       | 38                 | FIX    |
| 8  | B Drive         | 0~63  | 32                | 32                       | 32                 | Adjust |
| 9  | Sub Bright      | 0~63  | 21                | 21                       | 21                 | Adjust |
| 10 | Sub Contrast    | 0~15  | 9                 | 9                        | 9                  | Adjust |
| 11 | Sub secam color |       | 16                | 16                       | 16                 |        |
| 12 | Sub Color       | 0~23  | 5                 | 5                        | 5                  | FIX    |
| 13 | Sub Tint        | 0~63  | 29                | 29                       | 29                 | FIX    |
| 14 | CTI Level       | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 15 | COL Axis        | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 16 | LTI mode        | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 17 | LTI Level       | 0~03  | 3                 | 3                        | 3                  | FIX    |

## 7. Video Adjust 2

| No | Item         | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|--------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | ABL Mode     | 0~03  | 3                 | 3                        | 3                  | FIX    |
| 1  | Gamma        | 0~03  | 2                 | 2                        | 2                  | FIX    |
| 2  | DPIC Level   | 0~03  | 3                 | 3                        | 3                  | FIX    |
| 3  | DC Trans     | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 4  | ABL TH       | 0~15  | 14                | 14                       | 14                 | FIX    |
| 5  | VM Level     | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 6  | VM Coring    | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 7  | VM f0        | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 8  | VM Limit     | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 9  | VM Delay     | 0~03  | 3                 | 3                        | 3                  | FIX    |
| 10 | SHP CD       | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 11 | SHP f0       | 0~01  | 1                 | 1                        | 1                  | FIX    |
| 12 | SHP f1 & P/O | 0~15  | 11                | 11                       | 11                 | FIX    |
| 13 | AKB Time     | 0~31  | 16                | 16                       | 16                 | FIX    |
| 14 | V-Peaking    | 0~31  | 21                | 21                       | 21                 | FIX    |

## 8. Video Adjust 3

| No | Item                    | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|-------------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | H_EHT comp              | 0~15  | 3                 | 3                        | 3                  | FIX    |
| 1  | V_EHT comp              | 0~15  | 5                 | 5                        | 5                  | FIX    |
| 2  | PIN EHT comp            | 0~07  | 5                 | 5                        | 5                  | FIX    |
| 3  | AFC EHT comp            | 0~07  | 0                 | 0                        | 0                  | FIX    |
| 4  | Sync Phase              | 0~1   | 0                 | 0                        | 0                  | FIX    |
| 5  | NR Value                | 0~09  | 6                 | 6                        | 6                  | FIX    |
| 6  | Sync Phase (480)        | 0~1   | 0                 | 0                        | 0                  | FIX    |
| 7  | Sync Phase (576P)       | 0~1   | 0                 | 0                        | 0                  | FIX    |
| 8  | Sync Phase (1080)       | 0~1   | 0                 | 0                        | 0                  | FIX    |
| 9  | Sync Phase (VGA)        | 0~1   | 0                 | 0                        | 0                  | FIX    |
| 10 | RF_DNle R_active HP HI  | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 11 | RF_DNle R_active HP LO  | 0~255 | 214               | 214                      | 214                | FIX    |
| 12 | RF_DNle H_Sync out P HI | 0~15  | 11                | 11                       | 11                 | FIX    |
| 13 | RF_DNle H_Sync out P LO | 0~255 | 190               | 190                      | 190                | FIX    |
| 14 | RF_DNle_HSYNC_OUT_W HI  | 0~15  | 0                 | 0                        | 0                  | FIX    |
| 15 | RF_DNle_HSYNC_OUT_W HI  | 0~255 | 5                 | 5                        | 5                  | FIX    |

## 9. Video Adjust 4

| No | Item                | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|---------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | VSU                 | 0~15  | 4                 | 4                        | 4                  | FIX    |
| 1  | Melody Volume       | 0~15  | 7                 | 7                        | 7                  | FIX    |
| 2  | TTX Bright          | 0~07  | 0                 | 0                        | 0                  | FIX    |
| 3  | TTX Contrast        | 0~07  | 3                 | 3                        | 3                  | FIX    |
| 4  | OSD Level           | 0~1   | 13                | 13                       | 13                 | FIX    |
| 5  | Band Pass 9407      | 0~09  | 0                 | 0                        | 0                  | FIX    |
| 6  | High Pass 9407      | 0~1   | 42                | 42                       | 42                 | FIX    |
| 7  | Band Pass 9407(AV)  | 0~1   | 0                 | 0                        | 0                  | FIX    |
| 8  | High Pass 9407(AV)  | 0~1   | 42                | 42                       | 42                 | FIX    |
| 9  | Band Pass 9407(DVD) | 0~1   | 0                 | 0                        | 0                  | FIX    |
| 10 | High Pass 9407(DVD) | 0~15  | 42                | 42                       | 42                 | FIX    |
| 11 | Peak DeNoise_TH     | 0~255 | 1                 | 1                        | 1                  | FIX    |

## 10. VIDEO ADJUST 5(color tone setting)

| No | Item                   | Range   | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|------------------------|---------|-------------------|--------------------------|--------------------|--------|
| 0  | R drive offset Warm2   | -20~+20 | 3                 | 3                        | 3                  | FIX    |
| 1  | B drive offset Warm2   | -20~+20 | -9                | -9                       | -9                 | FIX    |
| 2  | R cutoff offset Warm2  | -20~+20 | 6                 | 6                        | 6                  | FIX    |
| 3  | B cutoff offset Warm2  | -20~+20 | -11               | -11                      | -11                | FIX    |
| 4  | R drive offset Warm1   | -20~+20 | 2                 | 2                        | 2                  | FIX    |
| 5  | B drive offset Warm1   | -20~+20 | -2                | -2                       | -2                 | FIX    |
| 6  | R cutoff offset Warm1  | -20~+20 | 3                 | 3                        | 3                  | FIX    |
| 7  | B cutoff offset Warm1  | -20~+20 | -2                | -2                       | -2                 | FIX    |
| 8  | R drive offset Normal  | -20~+20 | 0                 | 0                        | 0                  | FIX    |
| 9  | B drive offset Normal  | -20~+20 | 0                 | 0                        | 0                  | FIX    |
| 10 | R cutoff offset Normal | -20~+20 | 0                 | 0                        | 0                  | FIX    |
| 11 | B cutoff offset Normal | -20~+20 | 0                 | 0                        | 0                  | FIX    |
| 12 | R drive offset Cool 1  | -20~+20 | 0                 | 0                        | 0                  | FIX    |
| 13 | B drive offset Cool 1  | -20~+20 | 4                 | 4                        | 4                  | FIX    |
| 14 | R cutoff offset Cool 1 | -20~+20 | 2                 | 2                        | 2                  | FIX    |
| 15 | B cutoff offset Cool 1 | -20~+20 | 6                 | 6                        | 6                  | FIX    |
| 16 | R drive offset Cool 2  | -20~+20 | -2                | -2                       | -2                 | FIX    |
| 17 | B drive offset Cool 2  | -20~+20 | 6                 | 6                        | 6                  | FIX    |
| 18 | R cutoff offset Cool 2 | -20~+20 | 0                 | 0                        | 0                  | FIX    |
| 19 | B cutoff offset Cool 2 | -20~+20 | 9                 | 9                        | 9                  | FIX    |

## 11. VIDEO ADJUST 6(DTV W/B offset)

| No | Item                  | Range   | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|-----------------------|---------|-------------------|--------------------------|--------------------|--------|
| 0  | R drive offset 1080i  | -30~+30 | 0                 | 0                        | 0                  | FIX    |
| 1  | G drive offset 1080i  | -30~+30 | 0                 | 0                        | 0                  | FIX    |
| 2  | R cutoff offset 1080i | -30~+30 | 3                 | 3                        | 3                  | FIX    |
| 3  | G cutoff offset 1080i | -30~+30 | 0                 | 0                        | 0                  | FIX    |
| 4  | R drive offset 480P   | -30~+30 | -1                | -1                       | -1                 | FIX    |
| 5  | G drive offset 480P   | -30~+30 | -1                | -1                       | -1                 | FIX    |
| 6  | R cutoff offset 480P  | -30~+30 | 5                 | 5                        | 5                  | FIX    |
| 7  | G cutoff offset 480P  | -30~+30 | 6                 | 6                        | 6                  | FIX    |
| 8  | R drive offset 576P   | -30~+30 | -1                | -1                       | -1                 | FIX    |
| 9  | G drive offset 576P   | -30~+30 | 0                 | 0                        | 0                  | FIX    |
| 10 | R cutoff offset 576P  | -30~+30 | 5                 | 5                        | 5                  | FIX    |
| 11 | G cutoff offset 576P  | -30~+30 | 4                 | 4                        | 4                  | FIX    |
| 12 | R drive offset 480i   | -30~+30 | 1                 | 1                        | 1                  | FIX    |
| 13 | G drive offset 480i   | -30~+30 | 0                 | 0                        | 0                  | FIX    |
| 14 | R cutoff offset 480i  | -30~+30 | 5                 | 5                        | 5                  | FIX    |
| 15 | G cutoff offset 480i  | -30~+30 | 7                 | 7                        | 7                  | FIX    |
| 16 | R drive offset 576i   | -30~+30 | 1                 | 1                        | 1                  | FIX    |
| 17 | G drive offset 576i   | -30~+30 | 0                 | 0                        | 0                  | FIX    |
| 18 | R cutoff offset 576i  | -30~+30 | 5                 | 5                        | 5                  | FIX    |
| 19 | G cutoff offset 576i  | -30~+30 | 6                 | 6                        | 6                  | FIX    |

## 12. DTV ADJUST(480P)

| No | Item           | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|----------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | Sub Bright     | 0~63  | 21                | 21                       | 21                 | FIX    |
| 1  | Sub Contrast   | 0~15  | 4                 | 4                        | 4                  | FIX    |
| 2  | Sub Color      | 0~23  | 15                | 15                       | 15                 | FIX    |
| 3  | Sub Tint (Hue) | 0~63  | 29                | 29                       | 29                 | FIX    |
| 4  | Color AXIS     | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 5  | LTI mode       | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 6  | VM-Level       | 0~03  | 2                 | 2                        | 2                  | FIX    |
| 7  | VM-Coring      | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 8  | VM-f0          | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 9  | VM-Limit       | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 10 | VM-Delay       | 0~03  | 3                 | 3                        | 3                  | FIX    |
| 11 | SHP CD         | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 12 | SHP f0         | 0~01  | 1                 | 1                        | 1                  | FIX    |
| 13 | SHP f1& p10    | 0~15  | 11                | 11                       | 11                 | FIX    |
| 14 | LTI level      | 0~03  | 3                 | 3                        | 3                  | FIX    |

## 13. DTV ADJUST(576P)

| No | Item           | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|----------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | Sub Bright     | 0~63  | 21                | 21                       | 21                 | FIX    |
| 1  | Sub Contrast   | 0~15  | 4                 | 4                        | 4                  | FIX    |
| 2  | Sub Color      | 0~23  | 15                | 15                       | 15                 | FIX    |
| 3  | Sub Tint (Hue) | 0~63  | 29                | 29                       | 29                 | FIX    |
| 4  | Color AXIS     | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 5  | LTI mode       | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 6  | VM-Level       | 0~03  | 2                 | 2                        | 2                  | FIX    |
| 7  | VM-Coring      | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 8  | VM-f0          | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 9  | VM-Limit       | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 10 | VM-Delay       | 0~03  | 3                 | 3                        | 3                  | FIX    |
| 11 | SHP CD         | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 12 | SHP f0         | 0~01  | 1                 | 1                        | 1                  | FIX    |
| 13 | SHP f1& p10    | 0~15  | 11                | 11                       | 11                 | FIX    |
| 14 | LTI level      | 0~03  | 3                 | 3                        | 3                  | FIX    |

## 14. DTV ADJUST(1080i)

| No | Item               | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|--------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | Sub Bright         | 0~63  | 19                | 19                       | 19                 | FIX    |
| 1  | Sub Contrast       | 0~15  | 5                 | 5                        | 5                  | FIX    |
| 2  | Sub Color          | 0~23  | 15                | 15                       | 15                 | FIX    |
| 3  | Sub Tint (Hue)     | 0~63  | 29                | 29                       | 29                 | FIX    |
| 4  | Color AXIS         | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 5  | LTI mode           | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 6  | VM-Level           | 0~03  | 2                 | 2                        | 2                  | FIX    |
| 7  | VM-Coring          | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 8  | VM-f0              | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 9  | VM-Limit           | 0~03  | 0                 | 0                        | 0                  | FIX    |
| 10 | VM-Delay           | 0~03  | 3                 | 3                        | 3                  | FIX    |
| 11 | SHP CD             | 0~03  | 1                 | 1                        | 1                  | FIX    |
| 12 | SHP f0             | 0~01  | 1                 | 1                        | 1                  | FIX    |
| 13 | SHP f1& p10        | 0~15  | 11                | 11                       | 11                 | FIX    |
| 14 | LTI level          | 0~03  | 3                 | 3                        | 3                  | FIX    |
| 15 | H_EHT comp_1080i   |       | 2                 | 2                        | 2                  | FIX    |
| 16 | V_EHT comp_1080i   |       | 4                 | 4                        | 4                  | FIX    |
| 17 | PIN EHT comp_1080i |       | 5                 | 5                        | 5                  | FIX    |
| 18 | ABL TH_1080i       |       | 14                | 14                       | 14                 | FIX    |

## 15. Video Adjustment DNle

| No | Item                 | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|----------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | AD9883 R Gain        | 0~255 | 140               | 140                      | 140                | FIX    |
| 1  | AD9883 G Gain        | 0~255 | 140               | 140                      | 140                | FIX    |
| 2  | AD9883 B Gain        | 0~255 | 140               | 140                      | 140                | FIX    |
| 3  | AD9883 R Offset      | 0~127 | 128               | 128                      | 128                | Adjust |
| 4  | AD9883 G Offset      | 0~127 | 128               | 128                      | 128                | FIX    |
| 5  | AD9883 B Offset      | 0~127 | 128               | 128                      | 128                | Adjust |
| 6  | AD9883_Nomal_REG05   | 0~255 | 32                | 32                       | 32                 | FIX    |
| 7  | AD9883_Nomal_REG06   | 0~255 | 20                | 20                       | 20                 | FIX    |
| 8  | AD9883_1080i_REG05   | 0~255 | 44                | 44                       | 44                 | FIX    |
| 9  | AD9883_1080i_REG06   | 0~255 | 32                | 32                       | 32                 | FIX    |
| 10 | AD9883_480p_50_REG05 | 0~255 | 32                | 32                       | 32                 | FIX    |
| 11 | AD9883_480p_50_REG06 | 0~255 | 62                | 62                       | 62                 | FIX    |
| 12 | AD9883_576p_50_REG05 | 0~255 | 32                | 32                       | 32                 | FIX    |
| 13 | AD9883_576p_60_REG06 | 0~255 | 52                | 52                       | 52                 | FIX    |
| 14 | AD9883_VGA_REG05     | 0~255 |                   |                          |                    | FIX    |
| 15 | AD9883_VGA_REG06     | 0~255 |                   |                          |                    | FIX    |

## 16. DNle Lite Enhancement Adjust

| No | Item          | Range   | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|---------------|---------|-------------------|--------------------------|--------------------|--------|
| 0  | Alpha L       | 0 ~ 255 | 80                | 80                       | 80                 | FIX    |
| 1  | Alpha U       | 0 ~ 255 | 80                | 80                       | 80                 | FIX    |
| 2  | CE_Cut off    | 0 ~ 255 | 32                | 32                       | 32                 | FIX    |
| 3  | CE_Upper      | 0 ~ 255 | 196               | 196                      | 196                | FIX    |
| 4  | CE_Gain Max L | 0 ~ 255 | 90                | 90                       | 90                 | FIX    |
| 5  | CE_Gain Max U | 0 ~ 255 | 90                | 90                       | 90                 | FIX    |
| 6  | Gain 1X       | 0 ~ 63  | 16                | 16                       | 16                 | FIX    |
| 7  | Gain 1Y       | 0 ~ 63  | 16                | 16                       | 16                 | FIX    |
| 8  | Gain 2X       | 0 ~ 63  | 2                 | 2                        | 2                  | FIX    |
| 9  | Gain 2Y       | 0 ~ 63  | 1                 | 1                        | 1                  | FIX    |
| 10 | Gain 3X       | 0 ~ 63  | 2                 | 2                        | 2                  | FIX    |
| 11 | Coring_On     | 1 ~ 1   | 1                 | 1                        | 1                  | FIX    |
| 12 | Coring_th1    | 0 ~ 7   | 3                 | 3                        | 3                  | FIX    |
| 13 | Coring_th2    | 0 ~ 7   | 4                 | 4                        | 4                  | FIX    |
| 14 | Coring_th3    | 0 ~ 7   | 4                 | 4                        | 4                  | FIX    |
| 15 | SD3_K         | 1 ~ 255 | 8                 | 8                        | 8                  | FIX    |
| 16 | Skin_X        | 0 ~ 63  | 23                | 23                       | 23                 | FIX    |
| 17 | Skin_Y        | 0 ~ 63  | 28                | 28                       | 28                 | FIX    |
| 18 | CTE           | 1 ~ 255 | 50                | 50                       | 50                 | FIX    |

## 17. YC Delay

| No | Item           | Range  | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|----------------|--------|-------------------|--------------------------|--------------------|--------|
| 0  | P.YC(AV) Delay | -16~15 | 1                 | 1                        | 1                  | FIX    |
| 1  | S.YC(AV) Delay | -16~15 | -5                | -5                       | -5                 | FIX    |
| 2  | N.YC(AV) Delay | -16~15 | 2                 | -3                       | -3                 | FIX    |
| 3  | P.BG.YC Delay  | -16~15 | 2                 | 0                        | 0                  | FIX    |
| 4  | P.DK.YC Delay  | -16~15 | 2                 | 0                        | 0                  | FIX    |
| 5  | P.I.YC Delay   | -16~15 | 0                 | 2                        | 2                  | FIX    |
| 6  | P.L.YC Delay   | -16~15 | 1                 | 0                        | 0                  | FIX    |
| 7  | S.BG.YC Delay  | -16~15 | -4                | 0                        | 0                  | FIX    |
| 8  | S.DK.YC Delay  | -16~15 | -6                | -1                       | -1                 | FIX    |
| 9  | S.I.YC Delay   | -16~15 | -9                | -8                       | -8                 | FIX    |
| 10 | S.L.YC Delay   | -16~15 | -6                | -9                       | -9                 | FIX    |
| 11 | N.M.YC Delay   | -16~15 | 7                 | 7                        | 7                  | FIX    |
| 12 | P.60.YC Delay  | -16~15 | 0                 | -5                       | -5                 | FIX    |
| 13 | N.443.YC Delay | -16~15 | 0                 | 0                        | 0                  | FIX    |



## 18. EEPROM

| No | Item                  | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|----|-----------------------|-------|-------------------|--------------------------|--------------------|--------|
| 0  | System                |       | 1                 | 1                        | 1                  | FIX    |
| 1  | VGA System            |       | 3                 | 3                        | 3                  | FIX    |
| 2  | System_480            |       | 2                 | 2                        | 2                  | FIX    |
| 3  | System_1080           |       | 2                 | 2                        | 2                  | FIX    |
| 4  | Dynamic Contrast      |       | 100               | 100                      | 100                | FIX    |
| 5  | Dynamic Brightness    |       | 50                | 50                       | 50                 | FIX    |
| 6  | Dynamic Sharpness     |       | 50                | 50                       | 50                 | FIX    |
| 7  | Dynamic Color         |       | 50                | 50                       | 50                 | FIX    |
| 8  | Dynamic Tint          |       | 50                | 50                       | 50                 | FIX    |
| 9  | Dynamic Color Tone    |       | 2                 | 2                        | 2                  | FIX    |
| 10 | Standard Contrast     |       | 50                | 50                       | 50                 | FIX    |
| 11 | Standard Brightness   |       | 50                | 50                       | 50                 | FIX    |
| 12 | Standard Sharpness    |       | 50                | 50                       | 50                 | FIX    |
| 13 | Standard Color        |       | 45                | 45                       | 45                 | FIX    |
| 14 | Standard Tint         |       | 50                | 50                       | 50                 | FIX    |
| 15 | Standard Color Tone   |       | 2                 | 2                        | 2                  | FIX    |
| 16 | Movie Contrast        |       | 45                | 45                       | 45                 | FIX    |
| 17 | Movie Brightness      |       | 50                | 50                       | 50                 | FIX    |
| 18 | Movie Sharpness       |       | 40                | 40                       | 40                 | FIX    |
| 19 | Movie Color           |       | 40                | 40                       | 40                 | FIX    |
| 20 | Movie Tint            |       | 50                | 50                       | 50                 | FIX    |
| 21 | Movie Color Tone      |       | 0                 | 0                        | 0                  | FIX    |
| 22 | Left_Blank            |       | 30                | 30                       | 30                 | FIX    |
| 23 | Right_Blank           |       | 10                | 10                       | 10                 | FIX    |
| 24 | Left Blanking (VGA)   |       | -                 | -                        | -                  | FIX    |
| 25 | Right Blanking (VGA)  |       | -                 | -                        | -                  | FIX    |
| 26 | Left Blanking (480)   |       | 26                | 26                       | 26                 | FIX    |
| 27 | Right Blanking (480)  |       | 22                | 22                       | 22                 | FIX    |
| 28 | Left Blanking (1080)  |       | 44                | 44                       | 44                 | FIX    |
| 29 | Right Blanking (1080) |       | 25                | 25                       | 25                 | FIX    |
| 30 | Brightness (RGB)      |       | 0                 | 0                        | 0                  | FIX    |
| 31 | Conrast (RGB)         |       | 124               | 124                      | 124                | FIX    |
| 32 | U Saturation (RGB)    |       | 117               | 117                      | 117                | FIX    |
| 33 | V Saturation RGB)     |       | 240               | 240                      | 240                | FIX    |
| 34 | Brightness (DVD)      |       | 12                | 12                       | 12                 | FIX    |
| 35 | Conrast (DVD)         |       | 132               | 132                      | 132                | FIX    |
| 36 | U Saturation (DVD)    |       | 25                | 25                       | 25                 | FIX    |
| 37 | V Saturation (DVD)    |       | 32                | 32                       | 32                 | FIX    |
| 38 | 9407 Y Gain           |       | 93                | 93                       | 93                 | FIX    |
| 39 | 9407 U Gain           |       | 82                | 82                       | 82                 | FIX    |
| 40 | Luminance Delay       |       | 8                 | 8                        | 8                  | FIX    |
| 41 | 9407 V Gain           |       | 81                | 81                       | 81                 | FIX    |
| 42 | CrCb_Gain_480p,576p   |       | 119               | 119                      | 119                | FIX    |
| 43 | CrCb_Gain_1080i       |       | 119               | 119                      | 119                | FIX    |
| 44 | 480i sub_bright       |       | 29                | 29                       | 29                 | FIX    |
| 45 | 480i sub_contrast     |       | 6                 | 6                        | 6                  | FIX    |

| No  | Item                                   | Range | WS32Z308P<br>(EU) | WS32Z30HE<br>(EAST-ASIA) | WS32Z30HE<br>(CIS) | Remark |
|-----|--|-------|-------------------|--------------------------|--------------------|--------|
| 46  | 576i sub_bright                        |       | 29                | 29                       | 29                 | FIX    |
| 47  | 576i sub_contrast                      |       | 6                 | 6                        | 6                  | FIX    |
| 48  | Start Value of Lum LUT (Main) - NR_ON  |       | 255               | 255                      | 255                | FIX    |
| 49  | Noise Reduction (Main) - NR_ON         |       | 95                | 95                       | 95                 | FIX    |
| 50  | Start Value of Lum LUT (Main) - NR_Off |       | 255               | 255                      | 255                | FIX    |
| 51  | Noise Reduction (Main) - NR_Off        |       | 255               | 255                      | 255                | FIX    |
| 52  | Start Value of Lum LUT (PIP) - NR_ON   |       | 255               | 255                      | 255                | FIX    |
| 53  | Noise Reduction (PIP) - NR_ON          |       | 102               | 102                      | 102                | FIX    |
| 54  | Start Value of Lum LUT (PIP) - NR_Off  |       | 255               | 255                      | 255                | FIX    |
| 55  | Noise Reduction (PIP) - NR_Off         |       | 255               | 255                      | 255                | FIX    |
| 56  | GMD Hysteresis                         |       | 28                | 28                       | 28                 | FIX    |
| 57  | SECAM Color Sensitivity (Main)         |       | 28                | 28                       | 28                 | FIX    |
| 58  | FMD Thre                               |       | 28                | 28                       | 28                 | FIX    |
| 59  | SECAM Color Sensitivity (PIP)          |       | 28                | 28                       | 28                 | FIX    |
| 60  | S - ABL                                |       | 0                 | 0                        | 0                  | FIX    |
| 61  | P - ABL                                |       | 48                | 48                       | 48                 | FIX    |
| 62  | Clamping duration(PIP)                 |       | 113               | 113                      | 113                | FIX    |
| 63  | TTX V-Position                         |       | 35                | 35                       | 35                 | FIX    |
| 64  | TTX H-Position                         |       | 181               | 181                      | 181                | FIX    |
| 65  | 4:3 Normal Parabola                    |       | 0                 | 0                        | 0                  | FIX    |
| 66  | 50_Trap                                |       | 4                 | 4                        | 4                  | FIX    |
| 67  | 60_Trap                                |       | 4                 | 4                        | 4                  | FIX    |
| 68  | WISE_LINK NR(ON)                       |       | -                 | -                        | -                  | FIX    |
| 69  | WISE_LINK NR(ON)                       |       | -                 | -                        | -                  | FIX    |
| 70  | LNA PLUS STEP2                         |       | 54                | 54                       | 54                 | FIX    |
| 71  | LNA PLUS STEP3                         |       | 54                | 54                       | 54                 | FIX    |
| 72  | LNA PLUS STEP4                         |       | 47                | 47                       | 47                 | FIX    |
| 73  | LNA PLUS STEP5                         |       | 15                | 15                       | 15                 | FIX    |
| 74  | LNA PLUS STEP6                         |       | 15                | 15                       | 15                 | FIX    |
| 79  | Clamping duration(main)                |       | 120               | 120                      | 120                | FIX    |
|     |  |       |                   |                          |                    |        |
| 170 | HV looping counter                     |       | 250               | 250                      | 250                | FIX    |
| 171 | HV Range Min                           |       | 40                | 40                       | 40                 | FIX    |
| 172 | HV Range Max                           |       | 150               | 150                      | 150                | FIX    |
|     |  |       |                   |                          |                    | FIX    |
| 246 | H-PLL(AV)                              |       | 28                | 28                       | 28                 | FIX    |
|     |  |       |                   |                          |                    |        |
| 248 | RF color sens                          |       | 208               | 208                      | 208                | FIX    |
| 249 | AV color sens                          |       | 217               | 217                      | 217                | FIX    |
| 250 | SDV (PROGRESSIVE MODE)                 |       | 75                | 75                       | 75                 | FIX    |
| 251 | SDH (PROGRESSIVE MODE)                 |       | 181               | 181                      | 181                | FIX    |
|     |  |       |                   |                          |                    |        |
| 253 | LPF adjustment(MST9883)                |       | 96                | 96                       | 96                 | FIX    |

## 19. OPTION (Europe)

| No | Option Byte1 | Alterable Change mode | Initial value | Europe        |   |
|----|--------------|-----------------------|---------------|---------------|---|
| 0  | CRT          | Wide / 4:3            | 4:3           | Wide          | 4:3,WIDE  |
| 1  | PIP          | On / Off              | On            | On            | On/Off  |
| 2  | LNA          | On / Off              | On            | On            | On : 2T PIP All Model<br>Off: 1TUNER / No PIP                       |
| 3  | Sound        | Vertual Dolby/Nicam   | V/D           | Virtual Dolby | V-DOLBY/A2-NICAM  |
| 4  | Auto FM      | On / Off              | On            | On            | On : FM Auto change (All model)<br>Off : MODE on(Currently nothing) |
| 5  | Carrier mute | On / Off              | On            | On            | On:Europe/CIS<br>Off: Thailand.,india etc. Southeast Asia.          |
| 6  | Speaker      | Dome Spk/Non Dome Spk | Dome Spk      | Direct type   |   |
| 7  | TTX Group    | Table                 | Osd Language  | Osd Language  | TTX Language Group  |
| 8  | TTX LIST     | On / Off              | Off           | OFF           | ON : Australia, Newzealand<br>OFF : Other Area                      |
| 9  | DTV          | On / Off              | Off           | ON            |   |
| 10 | SEARCH_LNA   | On / Off              | On            | On            | On : 2T PIP LNA All Model<br>Off: 1TUNER / No PIP                   |
| 11 | DNle option  | On / Off              | On            | On            |   |

## OPTION (CIS)

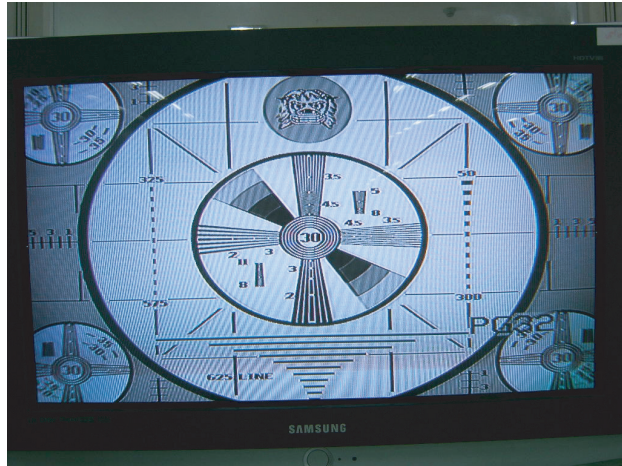
| No | Option Byte1 | Alterable Change mode                   | CIS           | Southeast Asia |   |
|----|--------------|---|---------------|----------------|---|
| 0  | CRT          | Wide / 4:3                              | Wide          | Wide           | 4:3,WIDE  |
| 1  | PIP          | CIS / Arab / Persia / East Asia / China | CIS           | East Asia      | On/Off  |
| 2  | LNA          | ENGLISH / CIS                           | CIS           | ENGLISH        | On : 2T PIP All Model<br>Off: 1TUNER / No PIP                       |
| 3  | Sound        | Vertual Dolby/Nicam                     | Virtual Dolby | Virtual Dolby  | V-DOLBY/A2-NICAM  |
| 4  | Auto FM      | On / Off                                | On            | On             | On : FM Auto change (All model)<br>Off : MODE on(Currently nothing) |
| 5  | Carrier mute | Scart / RCA                             | Scart         | RCA            | On:Europe/CIS<br>Off: Thailand.,india etc. Southeast Asia.          |
| 6  | Speaker      | Dome Spk/Non Dome Spk                   | Non Dom       | Non Dom        |   |
| 7  | TTX Group    | TTX Language Group                      | Russian       | Osd Language   | TTX Language Group  |
| 8  | TTX LIST     | On / Off                                | Off           | Off            | ON : Australia, Newzealand<br>OFF : Other Area                      |
| 9  | DTV          | On / Off                                | On            | On             |   |
| 10 | SEARCH_LNA   | On / Off                                | On            | On             | On : 2T PIP LNA All Model<br>Off: 1TUNER / No PIP                   |
| 11 | DNle option  | On / Off                                | Off           | Off            |   |

### 3-4 Service Adjustment

#### 3-4-1 Adjusting the Picture Size

■ Since the S62A chassis has the deflection settings data within the Factory Data, the picture size has to be adjusted when replacing the System Board or the Deflection Board, according to the following procedures.

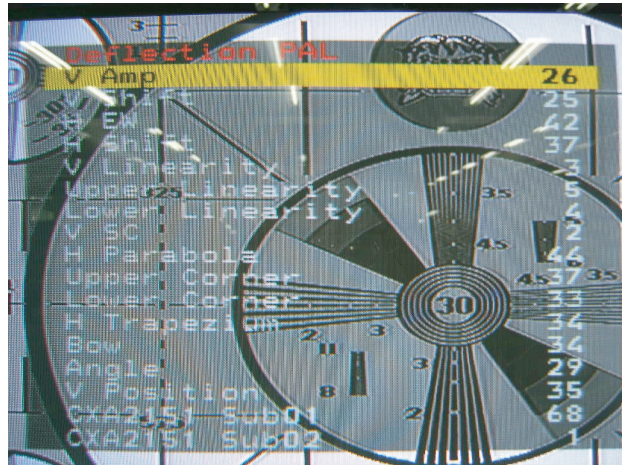
① Display the Lion pattern.



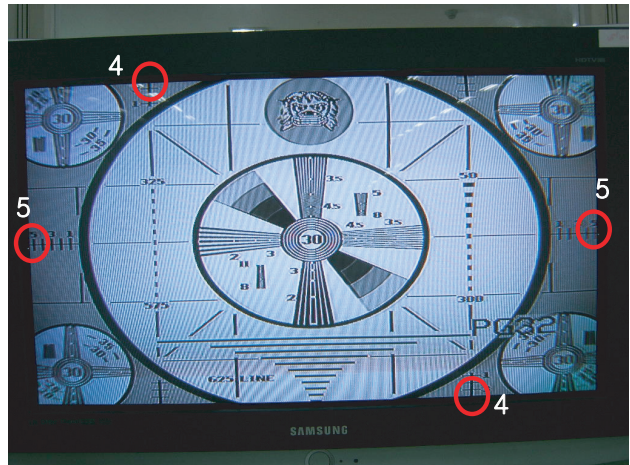
② Press "Info → Menu → Mute → Power On" using the remote control and enter Factory Mode.



③ Enter Deflection Mode.

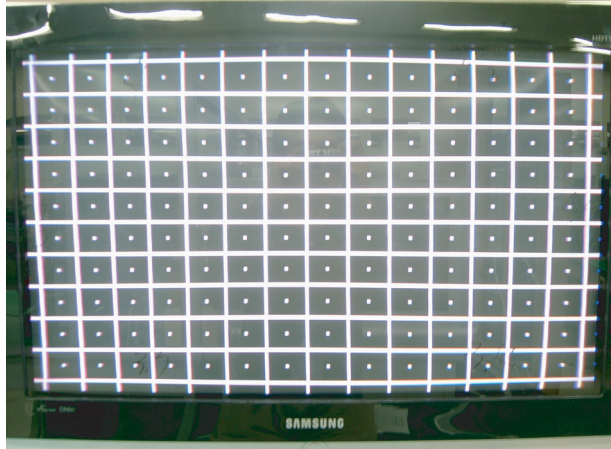


④ Adjust the V-AMP, V-SHIFT, H-AMP and H-SHIFT items so that the width becomes 5 and the height becomes 4.



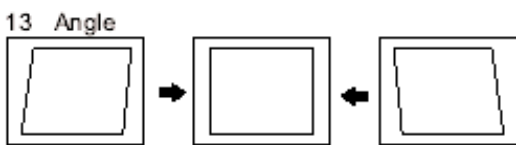
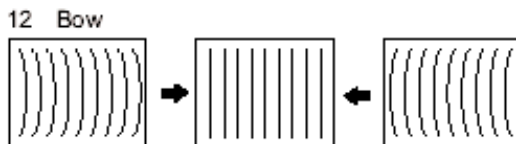
### 3-4-2 Adjusting the Picture Straight Lines

- ① Display the Cross Hatch pattern.

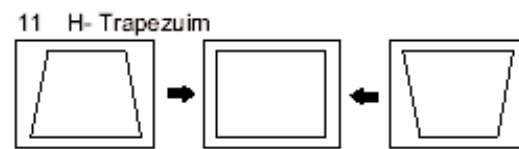
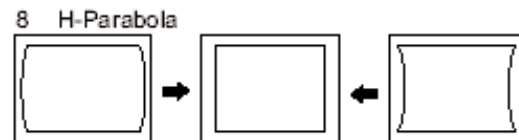


- ② Adjust settings other than V-AMP, V-SHIFT, H-AMP and H-SHIFT so that straight lines are displayed without curves.

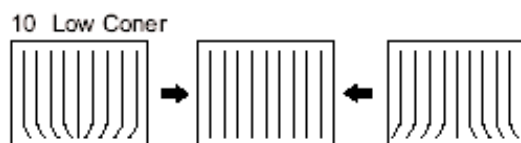
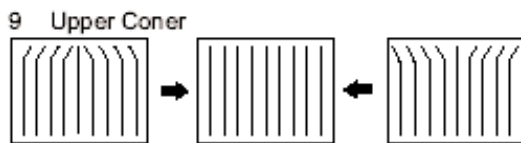
- ③ Adjust BOW and the Angle settings so that the center line becomes a straight line.



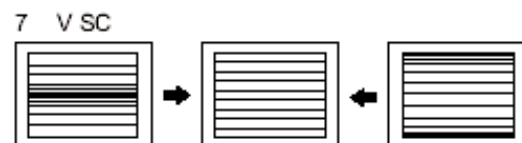
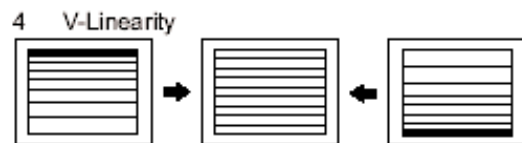
- ④ Adjust the H-Parabola and H-Trapezium settings so that the left and right lines become straight.



- ⑤ Adjust the Upper Corner and the Low Corner settings so that the end of the lines become straight.



- ⑥ Adjust the V-Linearity and V-SC settings so that the intervals of the horizontal lines become uniform.



- ⑦ When the adjustments are complete, display the Lion pattern and check that the picture size has not been changed. If there is no change, finish the adjustments.

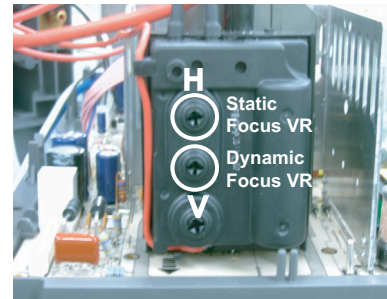
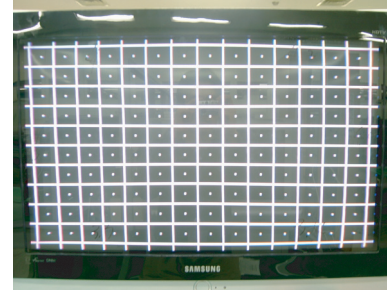
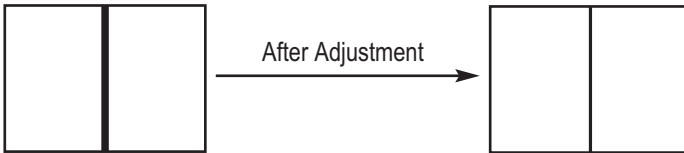


## 3-5 Replacements & Calibration

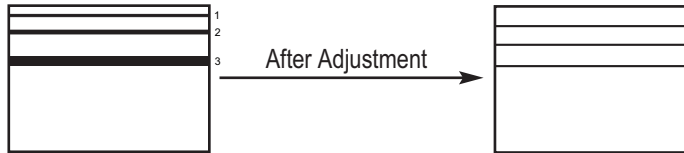
### 3-5-1 Adjusting the Focus

■ Since the S62A chassis has a built-in dynamic focus circuit, take care when adjusting the focus. When the CRT PCB, FBT or CRT has been replaced, the focus has to be adjusted according to the following procedures.

1. Display the CROSS Hatch pattern.
2. Set the Screen Adjustment to "View as Standard".
3. Turn the Static Focus VR clockwise to the maximum position.  
(End of clockwise direction)
4. Turn the Dynamic Focus VR counter clockwise to the maximum position.  
(End of counter clockwise direction)
5. Slowly turn the Static Focus VR counter clockwise so that the center vertical line is the most clearly displayed.



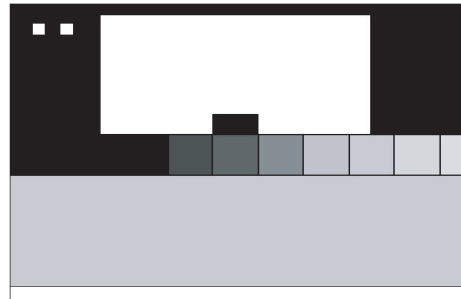
6. Slowly turn the Dynamic Focus VR clockwise so that the 2nd line is the most clearly displayed.



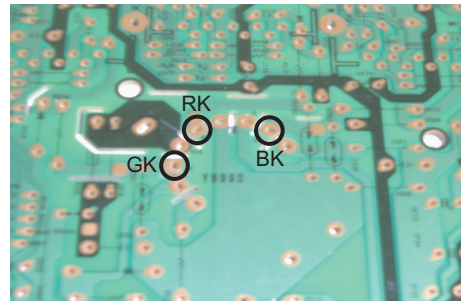
7. Check the entire screen focus and repeat steps 3 to 6, if necessary.

### 3-5-2 Adjusting the Screen Voltage

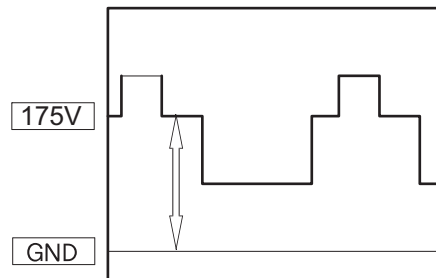
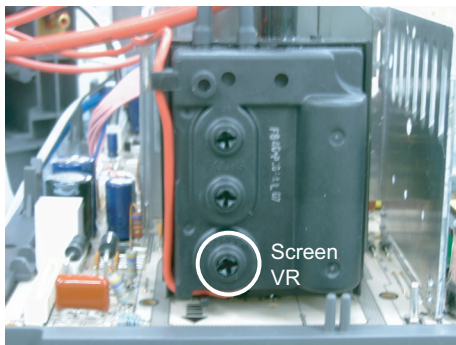
1. Select "Info → Menu → Mute → Power On" to enter Service Mode.
2. Initialize all settings to the values appropriate to the corresponding model.
3. Display the Toshiba pattern.



4. Using an Oscilloscope, measure the size of RK, BK and GK to the Pedestal Level.



5. Adjust the Screen VR of FEB so that the highest point of the Pedestal Level is 175V.



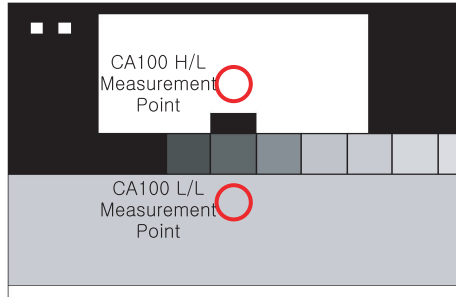
Adjust Method the Screen Voltage for Toshiba Pattern by Oscilloscope

※ Screen Voltage Measurement Data

| No | Item           | Data   | Required Adjustment |
|----|----------------|--|---------------------|
| 1  | Screen Voltage | The Highest Voltage among RK, GK and BK 175V <sub>p-p-3V</sub> | Screen Voltage      |

### 3-5-3 Adjusting the White Balance

1. Initialize all settings to the values appropriate to the corresponding model.
2. Select "Info → Menu → Mute → Power On" to enter Service Mode.
3. Initialize all settings to the values appropriate to the corresponding model.
4. Display the Toshiba pattern and adjust the White Balance using CA100 with the coordinates of the corresponding model.



[CA100]

5. Enter Video Adjust1 of Service Mode. Adjust Low/Light.
  - Adjust Sub Bright to set Y.
  - Adjust B Cutoff to set y.
  - Adjust R Cutoff to set x.
6. Enter Video Adjust1 of Service Mode. Adjust High/Light.
  - Adjust Sub Contrast to set Y.
  - Adjust B Drive to set y.
  - Adjust R Drive to set x.
7. Check Low/Light and readjust it if its value has been changed.
8. If you have readjusted Low/Light, readjust High/Light until the two values are identical to the coordinates of the corresponding model.

※ White Balance Standard Data

| No | Item          | Data  | Required Adjustment    |
|----|---------------|---|------------------------|
| 1  | White Balance | x:282± 3 / y:302± 3 / 40± 3<br>x:282± 5 / y:302± 5 / 1.6± 0.2 | White Balance (Europe) |

### 3-5-4 Check List for the Screen Voltage and White Balance Adjustment

1. The Screen Voltage and White Balance are connected each other, and both of them have to be configured to the correct values.
2. Adjust the White Balance after the Screen Voltage was adjusted, and check if the Screen Voltage is normal after adjusting the White Balance.
3. If the White Balance is readjusted, check the Screen Voltage again.
4. When the adjustment is finished, check the following checklist.
  - If there is a spot on the screen when turning the TV set off/on, adjust the Screen Voltage again.
  - If there is a ghost line on the screen, adjust the Screen Voltage again.

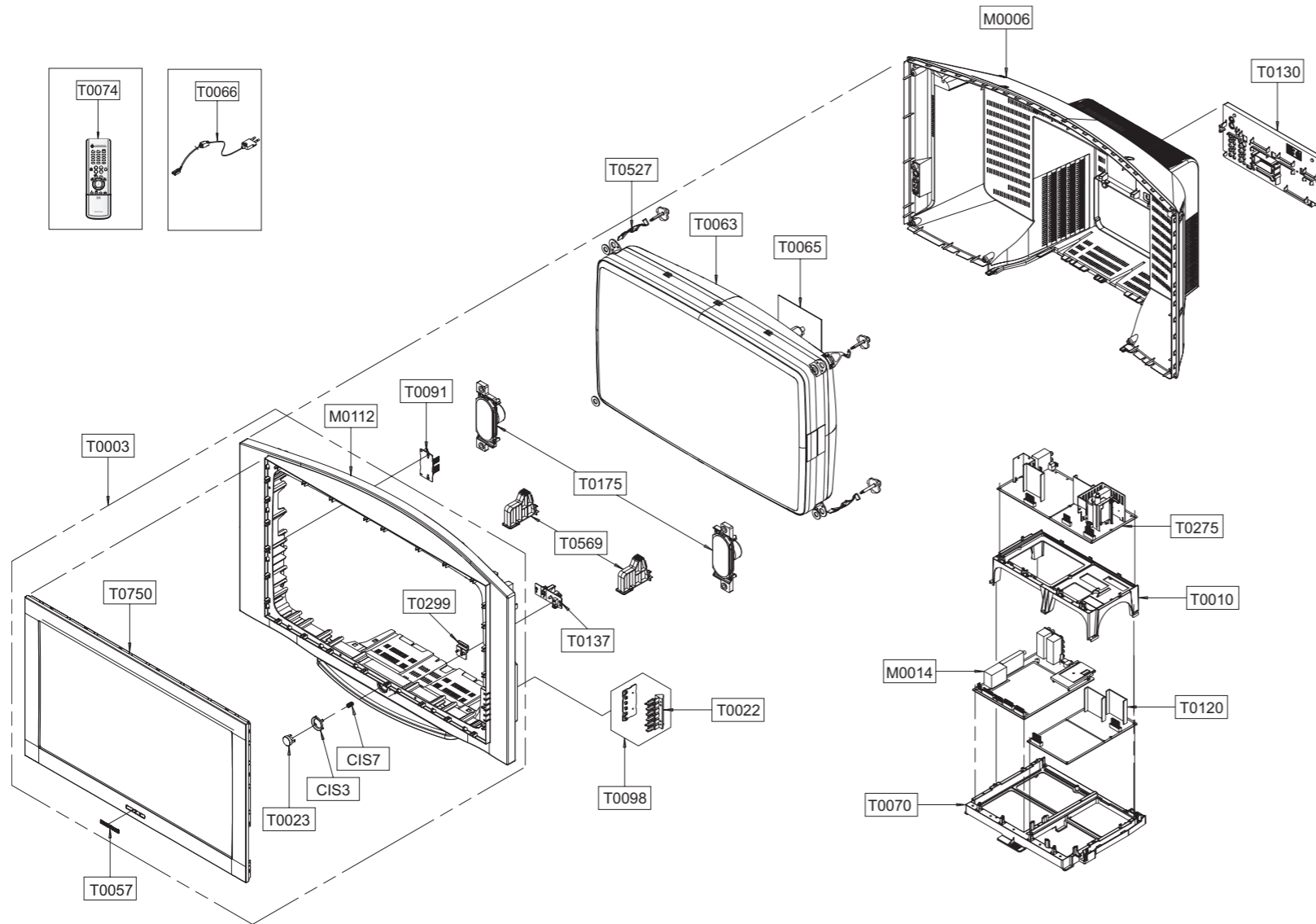


## 4. Exploded View & Part List

### 4-1 WS32Z30HEAXBWT

You can search for the updated part code through ITSELF web site.

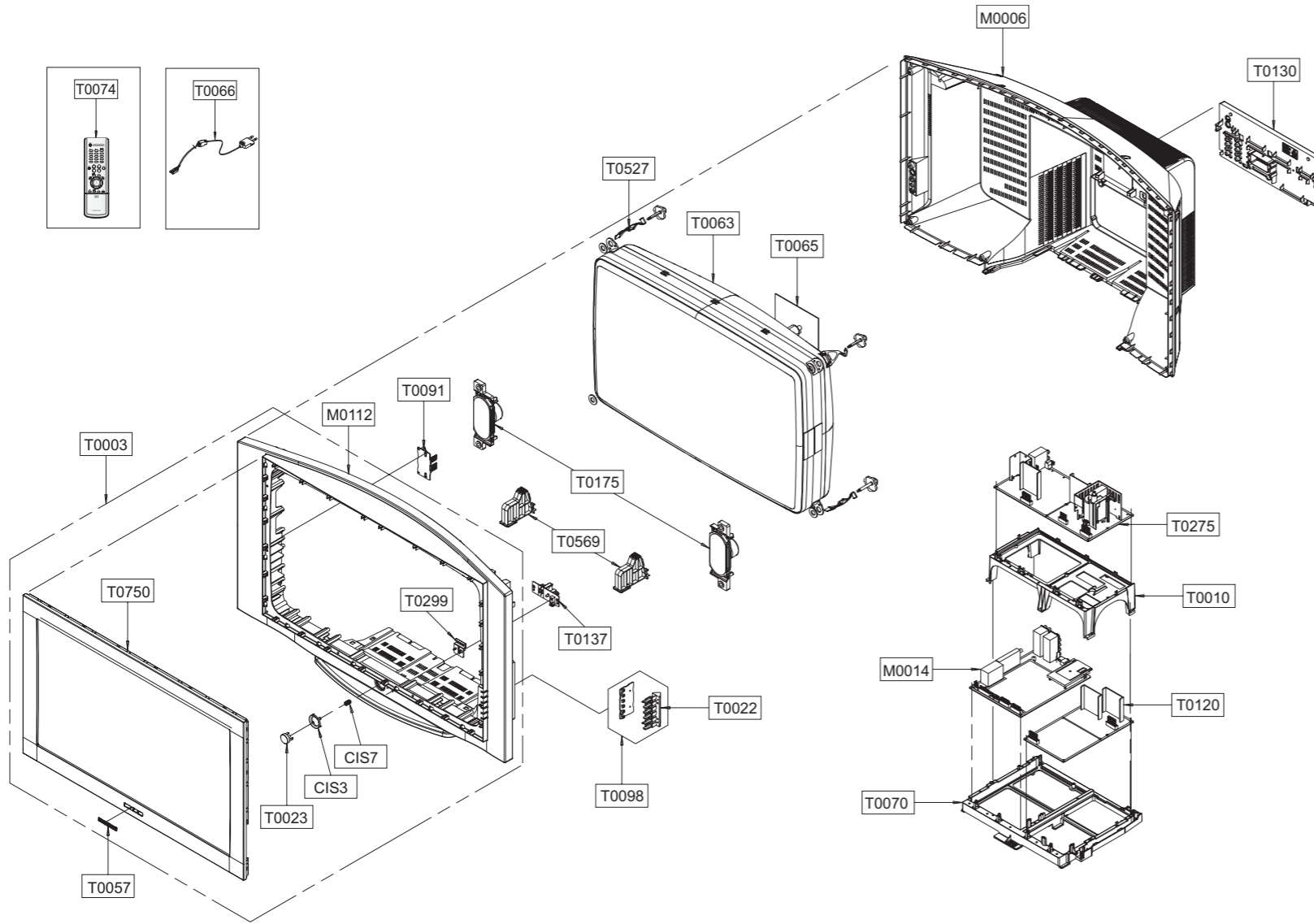
URL: <http://itself.sec.samsung.co.kr>



| Loc.No. | Code No.    | Description                 | Specification                     | Q'ty | SA/SNA | Remark |
|---------|-------------|-----------------------------|-----------------------------------|------|--------|--------|
| CIS3    | BP64-00331B | DECORATION-POWER            | PJTV,ABS,HB,GR503,SVM30           | 1    | S.N.A  |        |
| CIS7    | AA61-60003J | SPRING ETC-CS               | -,SUS304,-,-,OD6,N7,OD6,-,        | 1    | S.N.A  |        |
| M0006   | AA63-00959B | COVER-REAR                  | 32Z30(HQ),HIPS,FV2,BK500          | 1    | S.A    |        |
| M0014   | AA94-15259D | ASSY PCB MAIN-SYSTEM        | WS32Z30/BWT,S62A,OZ               | 1    | S.N.A  |        |
| M0112   | AA63-00958D | COVER-FRONT                 | 32Z30,HIPS,HB,GR503,SV012P+B      | 1    | S.N.A  |        |
| T0003   | AA96-02867L | ASSY COVER P-FRONT          | 32Z30,CIS,HIPS HB,GR5             | 1    | S.A    |        |
| T0010   | AA61-01412A | HOLDER-SUB PCB              | 32Z30,HIPS VO,G4309               | 1    | S.N.A  |        |
| T0022   | AA64-01201N | KNOB CONTROL                | 32Z30,ABS,HB,G4309,BKM1326        | 1    | S.N.A  |        |
| T0023   | BP64-00326A | KNOB POWER                  | 43T9,ABS,HB,BLK,SVM3012           | 1    | S.N.A  |        |
| T0057   | AA64-01062B | BADGE-BRAND                 | ALL,AL,T1.5,10.6,L65,BLK,SIL      | 1    | S.A    |        |
| T0063   | AA03-00437A | CRT COLOR                   | W76QFV891X102,+380,0.252,13.9,    | 1    | S.A    |        |
| T0065   | AA94-15177A | ASSY PCB CRT                | WS32Z308P,S62A,OZ                 | 1    | S.A    |        |
| T0066   | AA96-20109C | ASSY POWER CORD             | -,CP2/NO(4.0),H/C300,KKP          | 1    | S.A    |        |
| T0070   | AA61-01411A | HOLDER-CHASSIS              | 32Z30,HIPS VO,G4309               | 1    | S.N.A  |        |
| T0074   | AA59-00357D | REMOCON                     | NEGOTIATOR,TM76B,200*54*30,S3 C18 | 1    | S.A    |        |
| T0091   | AA94-15178A | ASSY PCB MISC-AV SIDE       | ,OZ,S62A                          | 1    | S.A    |        |
| T0098   | AA94-15114A | ASSY PCB MISC-CONTROL       | CT-32Z30HD,CORE                   | 1    | S.A    |        |
| T0120   | AA94-15147D | ASSY PCB POWER              | 32",S62A,OZ,CIS                   | 1    | S.A    |        |
| T0130   | AA96-02974A | ASSY COVER P-TERMINAL BOARD | 32Z30,CIS,HI                      | 1    | S.N.A  |        |
| T0137   | AA94-15179A | ASSY PCB MISC-LED           | ,OZ,S62A                          | 1    | S.A    |        |
| T0175   | AA96-02859A | ASSY SPEAKER P              | 8ohm,Core,Oz,10W,800/500m         | 1    | S.A    |        |
| T0275   | AA94-15148D | ASSY PCB MISC-DEFLECTION    | S62A,OZ                           | 1    | S.N.A  |        |
| T0299   | AA64-04191A | WINDOW-RMC LED              | 32Z30,PC CLEAR                    | 1    | S.N.A  |        |
| T0527   | AA65-30017A | CLAMPER CORE-D,COIL         | -,NYLON-66,V0,-,NTR,              | 5    | S.N.A  |        |
| T0569   | AA61-01433A | SUPPORT-CRT                 | 32Z30(SLIM),HIPS,T2.0,GR503       | 2    | S.A    |        |
| T0750   | AA63-00962D | COVER-MASK                  | 32Z30,HIPS,HB,BLK,BKM-1326(R1     | 1    | S.N.A  |        |

### 4-2 WS32Z30HEAXSAP

You can search for the updated part code through ITSELF web site.  
 URL: <http://itself.sec.samsung.co.kr>



| Loc.No. | Code No.    | Description                 | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|-----------------------------|----------------------------------|------|--------|--------|
| CIS3    | BP64-00331B | DECORATION-POWER            | PJTV,ABS,HB,GR503,SVM30          | 1    | S.N.A  |        |
| CIS7    | AA61-60003J | SPRING ETC-CS               | -,SUS304,-,OD6,N7,OD6,-,         | 1    | S.N.A  |        |
| M0006   | AA63-00959A | COVER-REAR                  | 32Z30(HQ),HIPS,V0,BK500          | 1    | S.A    |        |
| M0112   | AA63-00958F | COVER-FRONT                 | 32Z30,HIPS,HB,GR503,SV012P+B     | 1    | S.N.A  |        |
| T0003   | AA96-02867M | ASSY COVER P-FRONT          | 32Z30,ASIA,HIPS HB,GR            | 1    | S.A    |        |
| T0010   | AA61-01412A | HOLDER-SUB PCB              | 32Z30,HIPS VO,G4309              | 1    | S.N.A  |        |
| T0022   | AA64-01201N | KNOB CONTROL                | 32Z30,ABS,HB,G4309,BKM1326       | 1    | S.N.A  |        |
| T0023   | BP64-00326A | KNOB POWER                  | 43T9,ABS,HB,BLK,SVM3012          | 1    | S.N.A  |        |
| T0057   | AA64-01062B | BADGE-BRAND                 | ALL_AL,T1.5,10.6,L65,BLK,SIL     | 1    | S.A    |        |
| T0063   | AA03-00429A | CRT COLOR                   | W76QFV891X102,0MG,0.252,13.9,0   | 1    | S.A    |        |
| T0065   | AA94-15177A | ASSY PCB CRT                | WS32Z308P,S62A,OZ                | 1    | S.A    |        |
| T0066   | AA96-20109C | ASSY POWER CORD             | -,CP2/NO(4.0),H/C300,KKP         | 1    | S.A    |        |
| T0070   | AA61-01411A | HOLDER-CHASSIS              | 32Z30,HIPS VO,G4309              | 1    | S.N.A  |        |
| T0074   | AA59-00357C | REMOCON                     | Negotiator,TM76B,200*54*30,S3C18 | 1    | S.A    |        |
| T0091   | AA94-15178A | ASSY PCB MISC-AV SIDE       | ,OZ,S62A                         | 1    | S.A    |        |
| T0098   | AA94-15114A | ASSY PCB MISC-CONTROL       | CT-32Z30HD,CORE                  | 1    | S.A    |        |
| T0120   | AA94-15147E | ASSY PCB POWER              | 32",S62A,OZ,E/ASIA               | 1    | S.A    |        |
| T0130   | AA96-03162A | ASSY COVER P-TERMINAL BOARD | 32Z30,ASIA,H                     | 1    | S.N.A  |        |
| T0137   | AA94-15179A | ASSY PCB MISC-LED           | ,OZ,S62A                         | 1    | S.A    |        |
| T0175   | AA96-02859A | ASSY SPEAKER P              | 8ohm,Core,Oz,10W,800/500m        | 1    | S.A    |        |
| T0275   | AA94-15148D | ASSY PCB MISC-DEFLECTION    | S62A,OZ                          | 1    | S.N.A  |        |
| T0299   | AA64-04191A | WINDOW-RMC LED              | 32Z30,PC CLEAR                   | 1    | S.N.A  |        |
| T0527   | AA65-30017A | CLAMPER CORE-D,COIL         | -,NYLON-66,V0,-,NTR,             | 5    | S.N.A  |        |
| T0569   | AA61-01433A | SUPPORT-CRT                 | 32Z30(SLIM),HIPS,T2.0,GR503      | 2    | S.A    |        |
| T0750   | AA63-00962H | COVER-MASK                  | 32Z30,HIPS,HB,BLK,BKM-1326(R1    | 1    | S.N.A  |        |
|         | AA94-15508A | ASSY PCB MAIN-SYSTEM BOARD  | EAST ASIA,S62                    | 1    | S.N.A  |        |

## 5. Electrical Part List

### 5-1 WS32Z30HEAXBWT

| Loc.No.             | Code No.           | Description                  | Specification                    | Q'ty     | SA/SNA     | Remark |
|---------------------|--------------------|------------------------------|----------------------------------|----------|------------|--------|
| <b>ASSY CHASSIS</b> |                    |                              |                                  |          |            |        |
| M0017               | AA91-09093C        | ASSY CHASSIS                 | WS32Z30HEAXBWT,S62A,OZ           | 1        | S.N.A      |        |
| <b>T0098</b>        | <b>AA94-15114A</b> | <b>ASSY PCB MISC-CONTROL</b> | <b>CT-32Z30HD,CORE</b>           | <b>1</b> | <b>S.A</b> |        |
| T0245               | 0202-001366        | SOLDER-WIRE FLUX             | -,RS60S,D1.2,63Sn/37Pb,          | 0.01     | S.N.A      |        |
| M0081               | 6003-001023        | SCREW-TAPTITE                | PWH,+ ,B,M3,L10,ZPC(YEL),SW      | 2        | S.N.A      |        |
| M2893               | AA39-00387C        | LEAD CONNECTOR               | K62A(CORE),UL1007#26,4P,7        | 1        | S.A        |        |
| T0022               | AA64-01201N        | KNOB CONTROL                 | 32Z30,ABS,HB,G4309,BKM1326       | 1        | S.N.A      |        |
| T0057               | AA97-15792A        | ASSY AUTO-CONTROL            | CT-32Z30HD,CORE                  | 1        | S.N.A      |        |
| DZY03               | 0403-000508        | DIODE-ZENER                  | MTZJ5.6B,5.45-5.73V,500MW,DO     | 1        | S.A        |        |
| RY03                | 2001-000007        | R-CARBON                     | 3KOHM,5%,1/8W,AA,TP,1.8X3.2MM    | 1        | S.A        |        |
| RY05                | 2001-000009        | R-CARBON                     | 20KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| RY02                | 2001-000577        | R-CARBON                     | 2KOHM,5%,1/8W,AA,TP,1.8X3.2MM    | 1        | S.A        |        |
| RY04                | 2001-000878        | R-CARBON                     | 6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| RY06                | 2001-000947        | R-CARBON                     | 7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| DZY04               | 2202-000796        | C-CERAMIC,MLC-AXIAL          | 1NF,10%,50V,Y5P,TP,3             | 1        | S.A        |        |
| LY01                | 2701-000114        | INDUCTOR-AXIAL               | 10UH,10%,2534                    | 1        | S.A        |        |
| LY02                | 2701-000114        | INDUCTOR-AXIAL               | 10UH,10%,2534                    | 1        | S.A        |        |
| SWY07               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY08               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY09               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY10               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY11               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY12               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| PCB                 | AA41-00619A        | PCB-CONTROL(Z7)              | CT-29HM8,FR-1,1L,A,1.6T,         | 1        | S.N.A      |        |
| CN906               | 3711-000058        | CONNECTOR-HEADER             | BOX,4P,1R,2.5mm,ANGLE,S          | 1        | S.A        |        |
| <b>T0120</b>        | <b>AA94-15147D</b> | <b>ASSY PCB POWER</b>        | <b>32,S62A,OZ,CIS</b>            | <b>1</b> | <b>S.A</b> |        |
| T0245               | 0202-001366        | SOLDER-WIRE FLUX             | -,RS60S,D1.2,63Sn/37Pb,          | 0.4      | S.N.A      |        |
| D809                | 0402-000586        | DIODE-RECTIFIER              | RK49,90V,3.5A,DO-201AD           | 1        | S.A        |        |
| △ PC802S            | 0604-001032        | PHOTO-COUPLER                | TR,170-260%,300mW,DIP-4,ST       | 1        | S.A        |        |
| △ PC801S            | 0604-001038        | PHOTO-COUPLER                | TR,130-260%,200mW,DIP-4,ST       | 1        | S.A        |        |
| T0087               | 1203-001006        | IC-POSI.FIXED REG.           | 78R05,TO-220F,4P,-,PL            | 1        | S.A        |        |
| T0086               | 1203-002177        | IC-PWM CONTROLLER            | VIPER12ADIP,DIP,8P,300           | 1        | S.A        |        |
| P803T               | 1404-001154        | THERMISTOR-PTC               | 4.5OHM,+30%/-20%,220V,270        | 1        | S.A        |        |
| T0900               | 1404-001195        | THERMISTOR-NTC               | 5.1ohm,15%,2900,27mW/C,BK        | 1        | S.A        |        |
| R811                | 2009-001011        | R-METAL PLATE                | 0.18ohm,10%,5W,CL,TP,5x14x       | 1        | S.A        |        |
| △ CY802S            | 2201-000963        | C-CERAMIC,DISC               | 1NF,20%,400V,Y5U,TP,9.5X6        | 1        | S.A        |        |
| △ CY801S            | 2201-000987        | C-CERAMIC,DISC               | 2.2NF,20%,400V,Y5U,BK,12         | 1        | S.A        |        |
| C806                | 2306-000112        | C-FILM,LEAD-PPF              | 100nF,20%,250V,BK,-,15mm         | 1        | S.A        |        |
| △ CX801S            | 2306-000318        | C-FILM,LEAD-PPF              | 220NF,20%,250V,BK,-,22.5         | 1        | S.A        |        |
| △ CX802S            | 2306-000321        | C-FILM,LEAD-PPF              | 470NF,20%,275V,BK,31X11X         | 1        | S.A        |        |
| C803                | 2401-002227        | C-AL                         | 330uF,20%,450V,GP,BK,35x45,10    | 1        | S.A        |        |
| C802                | 2401-002287        | C-AL                         | 470uF,20%,200V,WT,BK,25x40,10    | 1        | S.A        |        |
| △ RL801S            | 3501-001053        | RELAY-POWER                  | 5VDC,530MW,10000MA,1FORMA,15     | 1        | S.A        |        |
| FD802               | 3601-000414        | FUSE-CARTRIDGE               | 250V,5A,SLOW-BLOW,GLASS,5        | 1        | S.A        |        |
| CN906               | 3711-003204        | CONNECTOR-HEADER             | BOX,24P,2R,2mm,STRAIGHT          | 1        | S.A        |        |
| CN906               | 3711-003241        | CONNECTOR-HEADER             | BOX,14P,1R,2.5MM,STRAIG          | 1        | S.A        |        |
| T801S               | AA26-00226B        | TRANS SWITCHING              | EER5345,CORE,160V-300V,P         | 1        | S.A        |        |
| T0010               | AA27-10001C        | COIL CHOKE                   | -,100uH,K,-,5.0A,ST,700UH-K(R    | 1        | S.A        |        |
| T0010               | AA27-10002L        | COIL CHOKE                   | -,24uH,K,-,2A,-,24UH-K,10x10m    | 1        | S.A        |        |
| T0010               | AA27-10002L        | COIL CHOKE                   | -,24uH,K,-,2A,-,24UH-K,10x10m    | 1        | S.A        |        |
| T0010               | AA27-10002L        | COIL CHOKE                   | -,24uH,K,-,2A,-,24UH-K,10x10m    | 1        | S.A        |        |
| △ LX803S            | AA29-00011A        | FILTER LINE NOISE            | CZ32W8,-,0.20MAX,1.5KV           | 1        | S.A        |        |
| △ LX802S            | AA29-30002D        | FILTER LINE NOISE            | -,10mH,2.8A,-,SQE-3535           | 1        | S.A        |        |
| M2893               | AA39-00394A        | LEAD CONNECTOR               | CT-32Z30HD,UL1007#26,24P,        | 1        | S.A        |        |
| T0245               | AA39-20010C        | LEAD CONNECTOR-ASSY          | ,1P,600,YFH800-01,S,             | 1        | S.A        |        |
| CN802               | AA60-40012G        | PIN-GT                       | 3P,2.36P1,10/5mm,NYLON66,LOCKING | 1        | S.N.A      |        |
| △ D801S             | AA96-00276C        | ASSY HEAT SINK P             | -,BRIDGE ,AA62-00052A,G          | 1        | S.N.A      |        |
| T0522               | 0205-001153        | GREASE-SILICON               | SC102,JAPAN,-                    | 0.09     | S.N.A      |        |

Electrical Part List

| Loc.No.  | Code No.    | Description         | Specification                   | Q'ty | SA/SNA | Remark |
|----------|-------------|---------------------|---------------------------------|------|--------|--------|
| M0081    | 6003-000335 | SCREW-TAPTITE       | RH,+2S,M3,L8,ZPC(YEL),SWR       | 1    | S.N.A  |        |
| T0063    | AA60-30003A | WASHER              | T1.5,SBHG-1                     | 1    | S.N.A  |        |
| T0175    | AA62-00052A | HEAT SINK-PS        | -,-,SILVER,HOLE 18.5mm, 2       | 1    | S.N.A  |        |
|          | 0402-001399 | DIODE-BRIDGE        | GSIB660,600V,6A,SIP-4,BK        | 1    | S.A    |        |
| △ IC801S | AA96-50371S | ASSY HEAT SINK P    | AA62-30181H,SCREW,STR-X         | 1    | S.N.A  |        |
| CIS1     | 0205-001154 | OIL-SILICON         | G746,-,-                        | 0.2  | S.N.A  |        |
| M0081    | 6003-000333 | SCREW-TAPTITE       | RH,+2S,M3,L10,ZPC(YEL),SW       | 1    | S.N.A  |        |
| T0066    | AA62-30181H | HEAT SINK-ES        | -,AL6063 EXTR.,2,WHT,50MM,-     | 1    | S.N.A  |        |
| IC063    | AA13-00114A | IC HYBRID           | EMPEROR,7,-20--+125,FORMING,18A | 1    | S.A    |        |
|          | AA97-15826C | ASSY AUTO-POWER     | 32,S62A,OZ,CIS                  | 1    | S.N.A  |        |
| DS804    | 0401-000005 | DIODE-SWITCHING     | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| DS806    | 0401-000005 | DIODE-SWITCHING     | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| DS808    | 0401-000005 | DIODE-SWITCHING     | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| DZ807    | 0401-000005 | DIODE-SWITCHING     | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| D802     | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| D803     | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| D807     | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| DS803    | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| DS805    | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| DS807    | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| D808     | 0402-000132 | DIODE-RECTIFIER     | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D804     | 0402-000546 | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1    | S.A    |        |
| D805     | 0402-000546 | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1    | S.A    |        |
| DZ803    | 0403-000700 | DIODE-ZENER         | TZP33A,5%,1000MW,DO-41,TP       | 1    | S.A    |        |
| DZS806   | 0403-000704 | DIODE-ZENER         | TZP7.5B,7.5-8.4V,1000MW,DO-4    | 1    | S.A    |        |
| DZ802    | 0403-000718 | DIODE-ZENER         | MTZJ6.8B,6.52-6.79V,500MW,DO    | 1    | S.A    |        |
| DZ804    | 0403-000720 | DIODE-ZENER         | MTZJ9.1B,8.57-9.01V,500MW,DO    | 1    | S.A    |        |
| DZ805    | 0403-001320 | DIODE-ZENER         | MTZJ6.2C,6.16-6.4V,500MW,DO-    | 1    | S.A    |        |
| DZ806    | 0403-001321 | DIODE-ZENER         | MTZJ6.8C,6.7-6.97V,500MW,DO-    | 1    | S.A    |        |
| DZS807   | 0403-001325 | DIODE-ZENER         | MTZJ15C,14.42-15.02V,500MW,D    | 1    | S.A    |        |
| DZS808   | 0403-001327 | DIODE-ZENER         | MTZJ18A,16.22-17.06V,500MW,D    | 1    | S.A    |        |
| DZS804   | 0403-001328 | DIODE-ZENER         | MTZJ22A,20.15-21.2V,500MW,DO    | 1    | S.A    |        |
| DZS805   | 0403-001330 | DIODE-ZENER         | MTZJ30A,26.99-28.39V,500MW,D    | 1    | S.A    |        |
| DS802    | 0404-001056 | DIODE-SCHOTTKY      | RK16,60V,1500MA,DO-204AC,       | 1    | S.A    |        |
| DZS803   | 0406-001007 | DIODE-TVS           | P6KE180A,171/180/189V,600W,CAS  | 1    | S.A    |        |
| DZS802   | 0406-001062 | DIODE-TVS           | P6KE200A,190/200/210V,600W,CAS  | 1    | S.A    |        |
| DZS801   | 0406-001106 | DIODE-TVS           | P6KE300A,285/-315V,600W,DO-20   | 1    | S.A    |        |
| QS801    | 0501-000010 | TR-SMALL SIGNAL     | KSC1008,NPN,800mW,TO-92,        | 1    | S.A    |        |
| Q801     | 0501-000369 | TR-SMALL SIGNAL     | KSC2331-Y,NPN,1000mW,TO-        | 1    | S.A    |        |
| Q802     | 0501-000389 | TR-SMALL SIGNAL     | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| Q803     | 0501-000389 | TR-SMALL SIGNAL     | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| Q804     | 0501-000389 | TR-SMALL SIGNAL     | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| IC012    | 1203-001217 | IC-POSI.ADJUST REG. | 431,TO-92,3P,4.58MIL            | 1    | S.A    |        |
| △ VP801S | 1405-000187 | VARISTOR            | 750V,1250A,12.5x7mm,TP          | 1    | S.A    |        |
| △ VX801S | 1405-000187 | VARISTOR            | 750V,1250A,12.5x7mm,TP          | 1    | S.A    |        |
| R807     | 2001-000037 | R-CARBON(S)         | 330OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RS808    | 2001-000066 | R-CARBON(S)         | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R802     | 2001-000076 | R-CARBON            | 47KOHM,5%,1/4W,AA,TP,2.4X6.4MM  | 1    | S.A    |        |
| RS806    | 2001-000085 | R-CARBON(S)         | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R801     | 2001-000273 | R-CARBON            | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| R821     | 2001-000273 | R-CARBON            | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| R823     | 2001-000290 | R-CARBON            | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R826     | 2001-000290 | R-CARBON            | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R814     | 2001-000429 | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| R825     | 2001-000429 | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| R829     | 2001-000429 | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| R812     | 2001-000522 | R-CARBON            | 22KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R828     | 2001-000734 | R-CARBON            | 4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| R822     | 2001-000780 | R-CARBON            | 470OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R824     | 2001-000780 | R-CARBON            | 470OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RS805    | 2001-001077 | R-CARBON(S)         | 150OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R805     | 2001-001088 | R-CARBON(S)         | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| R817     | 2001-001088 | R-CARBON(S)         | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| R810     | 2001-001097 | R-CARBON(S)         | 2.4KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R815     | 2001-001131 | R-CARBON(S)         | 33KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R808     | 2001-001150 | R-CARBON(S)         | 470KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R809     | 2001-001150 | R-CARBON(S)         | 470KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R820     | 2001-001165 | R-CARBON(S)         | 56OHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |



| Loc.No. | Code No. | Description | Specification       | Q'ty                             | SA/SNA | Remark |
|---------|----------|-------------|---------------------|----------------------------------|--------|--------|
|         | R827     | 2001-001185 | R-CARBON(S)         | 750OHM,5%,1/2W,AA,TP,2.4X6.4     | 1      | S.A    |
| △       | RX801S   | 2002-001010 | R-COMPOSITION       | 1.8Mohm,5%,1/2W,AA,TP,3.7x       | 1      | S.A    |
| △       | RY801S   | 2002-001012 | R-COMPOSITION       | 8.2Mohm,5%,1/2W,AA,TP,3.7x       | 1      | S.A    |
|         | RS801    | 2003-000537 | R-METAL OXIDE(S)    | 1Kohm,5%,1W,AF,TP,3.3x9          | 1      | S.A    |
|         | R813     | 2004-001099 | R-METAL             | 56Kohm,1%,1/4W,AA,TP,2.4x6.4mm   | 1      | S.A    |
|         | R816     | 2004-001983 | R-METAL(S)          | 2.49Kohm,1%,1/2W,AA,TP,2.4x6.    | 1      | S.A    |
|         | RS803    | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5      | 1      | S.A    |
|         | RS804    | 2008-000206 | R-FUSIBLE(S)        | 1ohm,5%,1/2W,AF,TP,2.5x6.5mm     | 1      | S.A    |
|         | C819     | 2201-000374 | C-CERAMIC,DISC      | 0.22NF,5%,50V,C0G,TP,10.5        | 1      | S.A    |
|         | C832     | 2201-000406 | C-CERAMIC,DISC      | 0.27NF,10%,2KV,Y5P,TP,6.3        | 1      | S.A    |
|         | C813     | 2201-000556 | C-CERAMIC,DISC      | 0.47NF,10%,500V,Y5P,TP,5.        | 1      | S.A    |
|         | CS801    | 2201-000556 | C-CERAMIC,DISC      | 0.47NF,10%,500V,Y5P,TP,5.        | 1      | S.A    |
|         | CS808    | 2201-000556 | C-CERAMIC,DISC      | 0.47NF,10%,500V,Y5P,TP,5.        | 1      | S.A    |
|         | C816     | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.        | 1      | S.A    |
|         | C822     | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.        | 1      | S.A    |
|         | C829     | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x         | 1      | S.A    |
|         | C809     | 2301-000108 | C-FILM,LEAD-PEF     | 1.5nF,5%,50V,TP,6.5x3.0x         | 1      | S.A    |
|         | C820     | 2301-000192 | C-FILM,LEAD-PEF     | 1nF,5%,50V,TP,5.3x10mm,5         | 1      | S.A    |
|         | C821     | 2301-000356 | C-FILM,LEAD-PEF     | 47nF,5%,50V,TP,7.5x4.0x6         | 1      | S.A    |
|         | CS803    | 2301-000356 | C-FILM,LEAD-PEF     | 47nF,5%,50V,TP,7.5x4.0x6         | 1      | S.A    |
|         | C807     | 2301-001435 | C-FILM,LEAD-PPF     | 1.5nF,5%,1.2kV,TP,15x8x1         | 1      | S.A    |
|         | C817     | 2305-000289 | C-FILM,LEAD-PEF     | 220nF,5%,63V,TP,-,5mm            | 1      | S.A    |
|         | C830     | 2305-000411 | C-FILM,LEAD-PEF     | 470nF,5%,50V,TP,7.3x4.8x         | 1      | S.A    |
|         | CS805    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1      | S.A    |
|         | C810     | 2401-000142 | C-AL                | 1000uF,20%,16V,WT,TP,10x20,5     | 1      | S.A    |
|         | C825     | 2401-000142 | C-AL                | 1000uF,20%,16V,WT,TP,10x20,5     | 1      | S.A    |
|         | CS804    | 2401-000493 | C-AL                | 10uF,20%,50V,LZ,TP,5x11mm,5mm    | 1      | S.A    |
|         | C812     | 2401-000569 | C-AL                | 1uF,20%,250V,GP,TP,6.3x11,5      | 1      | S.A    |
|         | C827     | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1      | S.A    |
|         | C828     | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1      | S.A    |
|         | C801     | 2401-000703 | C-AL                | 2200uF,20%,25V,GP,-,12.5x25mm,   | 1      | S.A    |
|         | C831     | 2401-000922 | C-AL                | 22uF,20%,16V,GP,TP,5x5,5         | 1      | S.A    |
|         | C808     | 2401-000947 | C-AL                | 22uF,20%,35V,GP,TP,5x11,5        | 1      | S.A    |
|         | C811     | 2401-002075 | C-AL                | 4.7uF,20%,50V,GP,TP,5x11,5       | 1      | S.A    |
|         | CS810    | 2401-002594 | C-AL                | 220uF,20%,16V,GP,TP,8x11.5,5     | 1      | S.A    |
|         | C804     | 2401-003058 | C-AL                | 100uF,20%,200V,WT,TP,16x25,7.5   | 1      | S.A    |
|         | C805     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1      | S.A    |
|         | C814     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1      | S.A    |
|         | C818     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1      | S.A    |
|         | C823     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1      | S.A    |
|         | CS802    | 2401-003473 | C-AL                | 680UF,20%,16V,GP,TP,10X12.5MM,5  | 1      | S.A    |
|         | F101     | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-                | 1      | S.A    |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
|         | L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1      | S.N.A  |
| △       | FS801S   | 3601-001064 | FUSE-AXIAL LEAD     | 125V,4A,FAST-ACTING,GLAS         | 1      | S.A    |
| △       | FD802S   | 3601-001086 | FUSE-AXIAL LEAD     | 125V,5A,FAST-ACTING,GLAS         | 1      | S.A    |
| △       | FD804S   | 3601-001086 | FUSE-AXIAL LEAD     | 125V,5A,FAST-ACTING,GLAS         | 1      | S.A    |
| △       | FD801S   | 3601-001228 | FUSE-AXIAL LEAD     | 125V,10A,FAST-ACTING,EPO         | 1      | S.A    |
|         | F801A    | 3602-000114 | FUSE-HOLDER         | -,30mohm                         | 1      | S.A    |
|         | F801B    | 3602-000114 | FUSE-HOLDER         | -,30mohm                         | 1      | S.A    |
|         | EL801    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1      | S.N.A  |
|         | EL802    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1      | S.N.A  |
|         | EL803    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1      | S.N.A  |
|         | EL804    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1      | S.N.A  |
|         | EL805    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1      | S.N.A  |
|         | EL806    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1      | S.N.A  |
|         | EL807    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1      | S.N.A  |
|         | EY800    | 6042-000002 | EYELET              | ID1.5,OD2.L2.8,NI+SN,BSP3-1/2H   | 1      | S.N.A  |
|         | EY801    | 6042-000002 | EYELET              | ID1.5,OD2.L2.8,NI+SN,BSP3-1/2H   | 1      | S.N.A  |
|         | EY802    | 6042-000002 | EYELET              | ID1.5,OD2.L2.8,NI+SN,BSP3-1/2H   | 1      | S.N.A  |
|         | EY803    | 6042-000002 | EYELET              | ID1.5,OD2.L2.8,NI+SN,BSP3-1/2H   | 1      | S.N.A  |

## Electrical Part List

| Loc.No. | Code No.    | Description   | Specification                  | Q'ty | SA/SNA | Remark |
|---------|-------------|---------------|--------------------------------|------|--------|--------|
| EY804   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY805   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY806   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY807   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY808   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY809   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY810   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY811   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY812   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY813   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY814   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY815   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY816   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY817   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY818   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY819   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY820   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY821   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY822   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY823   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY824   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY825   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY826   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY827   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY828   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY829   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY830   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY831   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY832   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY833   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY834   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY835   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY836   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY837   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY838   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY839   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY840   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY841   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY842   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY843   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY844   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY845   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY846   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY847   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY848   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY849   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY850   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY851   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY852   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY853   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY854   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY855   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY856   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY857   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY858   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY859   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY860   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY861   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY862   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY863   | 6042-000002 | EYELET        | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| 0       | AA41-01120C | PCB SUB-POWER | CT-32Z30HD,CEM-1,1L,C,1.6T     | 1    | S.N.A  |        |
| GT811   | AA60-40014A | PIN-GT,ASSY   | AUTO                           | 1    | S.A    |        |
| GT811   | AA60-40014A | PIN-GT,ASSY   | AUTO                           | 1    | S.A    |        |
| GT811   | AA60-40014A | PIN-GT,ASSY   | AUTO                           | 1    | S.A    |        |
| GT811   | AA60-40014A | PIN-GT,ASSY   | AUTO                           | 1    | S.A    |        |
| GT811   | AA60-40014A | PIN-GT,ASSY   | AUTO                           | 1    | S.A    |        |
| CS809   | 2401-003046 | C-AL          | 47uF,20%,50V,WT,TP,6.3x11,2.5  | 1    | S.A    |        |
| R818    | 2004-004089 | R-METAL(S)    | 123Kohm,1%,1/2W,AA,TP,2.5x6.5  | 1    | S.A    |        |

| Loc.No.      | Code No.           | Description           | Specification                   | Q'ty     | SA/SNA     | Remark |
|--------------|--------------------|-----------------------|---------------------------------|----------|------------|--------|
| R819         | 2004-005059        | R-METAL(S)            | 2.7KOHM,1%,1/2W,AA,TP,6.4X2.4   | 1        | S.A        |        |
| △ T802S      | BN26-00022A        | TRANS SWITCHING-ST BY | EE2020,20B07-*,400              | 1        | S.A        |        |
| HS801        | BP96-00006E        | ASSY HEAT SINK P      | BP62-00001A,SCREW,SLA10         | 1        | S.N.A      |        |
| CIS1         | 0205-001154        | OIL-SILICON           | G746,-,-                        | 0.4      | S.N.A      |        |
| M0081        | 6003-000333        | SCREW-TAPTITE         | RH,+2S,M3,L10,ZPC(YEL),SW       | 3        | S.N.A      |        |
| T0098        | BP62-00001A        | HEAT SINK             | COMMANDO,A1050P,T2.0,W62.0,H50  | 1        | S.N.A      |        |
|              | 0402-001230        | DIODE-RECTIFIER       | FMG-G2CS,1000V,3A,DO-41,        | 1        | S.A        |        |
|              | 0402-001596        | DIODE-RECTIFIER       | SLA1004,200/700,3.5A,-,S        | 1        | S.A        |        |
| HS802        | BP96-00020W        | ASSY HEAT SINK P      | AA62-00045B,SCREW,GM713         | 1        | S.N.A      |        |
| CIS1         | 0205-001154        | OIL-SILICON           | G746,-,-                        | 0.1      | S.N.A      |        |
| M0081        | 6003-000335        | SCREW-TAPTITE         | RH,+2S,M3,L8,ZPC(YEL),SWR       | 1        | S.N.A      |        |
| T0098        | AA62-00045B        | HEAT SINK             | COMMANDO,AL1050,T1.0,H45.0      | 1        | S.N.A      |        |
| T0087        | 1203-003229        | IC-POSIFIXED REG.     | GM7130,TO-220,5P,11.9           | 1        | S.A        |        |
| M2893        | MD39-00096E        | LEAD CONNECTOR        | CORE(K62A),UL1007#26,14P,       | 1        | S.A        |        |
| <b>T0065</b> | <b>AA94-15177A</b> | <b>ASSY PCB CRT</b>   | <b>WS32Z308P,S62A,OZ</b>        | <b>1</b> | <b>S.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX      | -,RS60S,D1.2,63Sn/37Pb,         | 0.16     | S.N.A      |        |
| IC012        | 1203-000165        | IC-POSIAJUST REG.     | 78R12,TO-220,4P,-,PL            | 1        | S.A        |        |
| C517         | 2201-000173        | C-CERAMIC,DISC        | 10NF,10%,500V,Y5P,BK,16X4       | 1        | S.A        |        |
| C521         | 2201-000173        | C-CERAMIC,DISC        | 10NF,10%,500V,Y5P,BK,16X4       | 1        | S.A        |        |
| C522         | 2201-002117        | C-CERAMIC,DISC        | 4.7nF,20%,3kV,Y5U,TP,16x6       | 1        | S.A        |        |
| V999S        | 3704-001194        | SOCKET-CRT            | 8P+SEN,29PI,22.5PI,NI+SN,-      | 1        | S.A        |        |
| CN906        | 3711-000577        | CONNECTOR-HEADER      | BOX,10P,1R,2.5mm,STRAIG         | 1        | S.A        |        |
| CN906        | 3711-000654        | CONNECTOR-HEADER      | BOX,12P,1R,2.5mm,STRAIG         | 1        | S.A        |        |
| IC063        | AA13-00111A        | IC HYBRID             | STK396-130,WT-32A20HD,12,105C,  | 1        | S.A        |        |
| T0100        | AA97-15851A        | ASSY AUTO-CRT         | ,OZ,S62A                        | 1        | S.N.A      |        |
| D501         | 0401-000005        | DIODE-SWITCHING       | 1N4148,75V,150MA,DO-35,T        | 1        | S.A        |        |
| D503         | 0401-000005        | DIODE-SWITCHING       | 1N4148,75V,150MA,DO-35,T        | 1        | S.A        |        |
| D504         | 0402-000132        | DIODE-RECTIFIER       | 1N4004,400V,1A,DO-41,TP         | 1        | S.A        |        |
| D502         | 0402-000493        | DIODE-RECTIFIER       | 1R5GU41,400V,1.5A,DO-15L        | 1        | S.A        |        |
| D506         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D509         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D510         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D511         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D512         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D513         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D514         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| DF08         | 0402-000546        | DIODE-RECTIFIER       | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| DZ503        | 0403-000508        | DIODE-ZENER           | MTZJ5.6B,5.45-5.73V,500MW,DO    | 1        | S.A        |        |
| DZ504        | 0403-000698        | DIODE-ZENER           | TZP12A,5%,1000MW,DO-41,TP       | 1        | S.A        |        |
| DZ501        | 0403-000708        | DIODE-ZENER           | MTZJ13B,12.55-13.21V,500MW,D    | 1        | S.A        |        |
| DZ502        | 0403-000708        | DIODE-ZENER           | MTZJ13B,12.55-13.21V,500MW,D    | 1        | S.A        |        |
| Q501         | 0501-000283        | TR-SMALL SIGNAL       | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q502         | 0501-000283        | TR-SMALL SIGNAL       | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q503         | 0501-000283        | TR-SMALL SIGNAL       | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q504         | 0501-000283        | TR-SMALL SIGNAL       | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q505         | 0501-000389        | TR-SMALL SIGNAL       | KSC815,NPN,400mW,TO-92,T        | 1        | S.A        |        |
| IC506        | 0502-000006        | TR-POWER              | KSC1507,NPN,15W,TO-220,TP,120-  | 1        | S.A        |        |
| R531         | 2001-000009        | R-CARBON              | 20KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| R560         | 2001-000052        | R-CARBON(S)           | 3.3KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R518         | 2001-000066        | R-CARBON(S)           | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1        | S.A        |        |
| R533         | 2001-000066        | R-CARBON(S)           | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1        | S.A        |        |
| R564         | 2001-000066        | R-CARBON(S)           | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1        | S.A        |        |
| R536         | 2001-000085        | R-CARBON(S)           | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R562         | 2001-000085        | R-CARBON(S)           | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R563         | 2001-000085        | R-CARBON(S)           | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R501         | 2001-000241        | R-CARBON              | 1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R502         | 2001-000241        | R-CARBON              | 1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R527         | 2001-000241        | R-CARBON              | 1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R530         | 2001-000273        | R-CARBON              | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R522         | 2001-000290        | R-CARBON              | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| R519         | 2001-000397        | R-CARBON              | 180KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R540         | 2001-000429        | R-CARBON              | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R554         | 2001-000429        | R-CARBON              | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R555         | 2001-000429        | R-CARBON              | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R556         | 2001-000429        | R-CARBON              | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R507         | 2001-000472        | R-CARBON              | 2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R520         | 2001-000563        | R-CARBON              | 27KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |

## Electrical Part List

| Loc.No. | Code No.    | Description         | Specification                   | Q'ty | SA/SNA | Remark |
|---------|-------------|---------------------|---------------------------------|------|--------|--------|
| R517    | 2001-000666 | R-CARBON            | 330HM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| R523    | 2001-000890 | R-CARBON            | 6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| R566    | 2001-001040 | R-CARBON(S)         | 0.68OHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R504    | 2001-001045 | R-CARBON(S)         | 1.2KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R505    | 2001-001045 | R-CARBON(S)         | 1.2KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R512    | 2001-001045 | R-CARBON(S)         | 1.2KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R538    | 2001-001062 | R-CARBON(S)         | 10MOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R565    | 2001-001071 | R-CARBON(S)         | 12KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R535    | 2001-001103 | R-CARBON(S)         | 20KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R561    | 2001-001126 | R-CARBON(S)         | 300OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RF11    | 2001-001175 | R-CARBON(S)         | 620HM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| R537    | 2001-001196 | R-CARBON(S)         | 9.1KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R525    | 2002-001006 | R-COMPOSITION       | 4.7KOHM,15%,1/2W,AA,TP,3.7      | 1    | S.A    |        |
| R513    | 2002-001102 | R-COMPOSITION       | 510OHM,10%,1/2W,AA,TP,3.3X      | 1    | S.A    |        |
| R514    | 2002-001102 | R-COMPOSITION       | 510OHM,10%,1/2W,AA,TP,3.3X      | 1    | S.A    |        |
| R515    | 2002-001102 | R-COMPOSITION       | 510OHM,10%,1/2W,AA,TP,3.3X      | 1    | S.A    |        |
| RF12    | 2003-001093 | R-METAL OXIDE(S)    | 12Kohm,5%,2W,AF,TP,3.9x         | 1    | S.A    |        |
| R532    | 2004-001893 | R-METAL(S)          | 22Kohm,1%,1/2W,AA,TP,2.5x6.5mm  | 1    | S.A    |        |
| R534    | 2004-004097 | R-METAL             | 1.6Kohm,2%,1/2W,AA,TP,2.4X6.4mm | 1    | S.A    |        |
| R509    | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5     | 1    | S.A    |        |
| R528    | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5     | 1    | S.A    |        |
| R541    | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5     | 1    | S.A    |        |
| RF13    | 2008-000292 | R-FUSIBLE(S)        | 3.3ohm,5%,2W,AF,TP,3.9x10mm     | 1    | S.A    |        |
| CF02    | 2201-000017 | C-CERAMIC,DISC      | 1NF,10%,50V,Y5P,TP,5X3.5M       | 1    | S.A    |        |
| CF05    | 2201-000019 | C-CERAMIC,DISC      | 10nF,+80-20%,500V,Y5V,TP,       | 1    | S.A    |        |
| C501    | 2201-000193 | C-CERAMIC,DISC      | 0.01NF,0.25PF,50V,C0G,TP,       | 1    | S.A    |        |
| C513    | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.       | 1    | S.A    |        |
| C514    | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.       | 1    | S.A    |        |
| C515    | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.       | 1    | S.A    |        |
| CF07    | 2201-000604 | C-CERAMIC,DISC      | 0.056NF,+100-0%,500V,SL,T       | 1    | S.A    |        |
| CF06    | 2201-002103 | C-CERAMIC,DISC      | 0.015NF,5%,500V,C0G,TP,6.       | 1    | S.A    |        |
| C504    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x        | 1    | S.A    |        |
| C505    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x        | 1    | S.A    |        |
| C506    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x        | 1    | S.A    |        |
| C507    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x        | 1    | S.A    |        |
| C509    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x        | 1    | S.A    |        |
| C508    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,        | 1    | S.A    |        |
| C511    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,        | 1    | S.A    |        |
| C512    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,        | 1    | S.A    |        |
| C526    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,        | 1    | S.A    |        |
| C518    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x        | 1    | S.A    |        |
| C533    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x        | 1    | S.A    |        |
| CF74    | 2401-000025 | C-AL                | 100uF,20%,16V,GP,TP,6.3x11,5    | 1    | S.A    |        |
| CF75    | 2401-000025 | C-AL                | 100uF,20%,16V,GP,TP,6.3x11,5    | 1    | S.A    |        |
| CF73    | 2401-000045 | C-AL                | 10uF,20%,160V,GP,TP,10x16,5     | 1    | S.A    |        |
| CF01    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11,5    | 1    | S.A    |        |
| C516    | 2401-000360 | C-AL                | 100uF,20%,50V,GP,TP,8x11.5,5    | 1    | S.A    |        |
| C519    | 2401-000430 | C-AL                | 10uF,20%,250V,GP,TP,10x16mm,5m  | 1    | S.A    |        |
| C520    | 2401-000703 | C-AL                | 2200uF,20%,25V,GP,-,12.5x25mm,  | 1    | S.A    |        |
| C528    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5,5    | 1    | S.A    |        |
| C534    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5,5    | 1    | S.A    |        |
| CF71    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5,5    | 1    | S.A    |        |
| C535    | 2401-000913 | C-AL                | 22uF,20%,16V,GP,TP,5x11,5       | 1    | S.A    |        |
| C532    | 2401-001563 | C-AL                | 47uF,20%,400V,GP,TP,16x25,7.5   | 1    | S.A    |        |
| CF04    | 2401-001872 | C-AL                | 10uF,20%,250V,WT,TP,10x16,5     | 1    | S.A    |        |
| LF03    | 2701-000112 | INDUCTOR-AXIAL      | 100UH,10%,3070                  | 1    | S.A    |        |
| L502    | 2701-000178 | INDUCTOR-AXIAL      | 33UH,10%,3070                   | 1    | S.A    |        |
| L501    | 2701-001040 | INDUCTOR-AXIAL      | 10UH,10%,4514                   | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-               | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-               | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-               | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-               | 1    | S.A    |        |
| CN906   | 3711-002642 | CONNECTOR-HEADER    | BOX,3P,1R,2.5mm,STRAIGH         | 1    | S.A    |        |
| CN906   | 3711-002643 | CONNECTOR-HEADER    | BOX,4P,1R,2.5mm,STRAIGH         | 1    | S.A    |        |
| T0310   | 4715-001036 | SURGE ABSORBER      | 500V,20%,-,TP                   | 1    | S.N.A  |        |
| T0310   | 4715-001036 | SURGE ABSORBER      | 500V,20%,-,TP                   | 1    | S.N.A  |        |
| T0310   | 4715-001036 | SURGE ABSORBER      | 500V,20%,-,TP                   | 1    | S.N.A  |        |
| LX085   | AA27-90001B | COIL-SPARK,GAP      | S-23,1.5KV,-,-,-,-,-,-,-,       | 1    | S.A    |        |



| Loc.No.      | Code No.           | Description                   | Specification                    | Q'ty     | SA/SNA     | Remark |
|--------------|--------------------|-------------------------------|----------------------------------|----------|------------|--------|
| 0            | AA41-01130A        | PCB CRT                       | CT-32Z30HD,FR-1,1L,A,1.6T,245X24 | 1        | S.N.A      |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                             | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                             | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                             | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                             | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                             | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                             | 1        | S.A        |        |
| R508         | 2001-001026        | R-CARBON                      | 910OHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| RF35         | 2003-001024        | R-METAL OXIDE(S)              | 150ohm,5%,2W,AF,TP,3.9x          | 1        | S.A        |        |
| R506         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5    | 1        | S.A        |        |
| R510         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5    | 1        | S.A        |        |
| R511         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5    | 1        | S.A        |        |
| R542         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5    | 1        | S.A        |        |
| R543         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5    | 1        | S.A        |        |
| R544         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5    | 1        | S.A        |        |
| R529         | 2008-000206        | R-FUSIBLE(S)                  | 1ohm,5%,1/2W,AF,TP,2.5x6.5m      | 1        | S.A        |        |
|              | BN62-00004A        | HEAT SINK-IC                  | NK,SUN,A6063S,T2.5,W28,L40,      | 1        | S.N.A      |        |
| M2893        | BP39-00053A        | LEAD CONNECTOR                | P57A/SVP-55WHT,UL1007#26,        | 1        | S.A        |        |
| R559         | 2006-001081        | R-CEMENT                      | 82ohm,5%,5W,CJ,TP,14x10x27mm     | 1        | S.A        |        |
| R567         | 2006-001083        | R-CEMENT                      | 120ohm,5%,5W,CJ,TP,14x10x27mm    | 1        | S.A        |        |
| R568         | 2006-001083        | R-CEMENT                      | 120ohm,5%,5W,CJ,TP,14x10x27mm    | 1        | S.A        |        |
| M2893        | AA39-00331B        | LEAD CONNECTOR                | K60A,UL1007/1185#26,UL/CS        | 1        | S.A        |        |
| T0245        | AA39-20010B        | LEAD CONNECTOR-ASSY           | ,1P,500,YFH800-01,S,             | 1        | S.A        |        |
| T0603        | AA63-10002A        | BAND-TIE                      | NYLON66 V2,L100,NTR              | 1        | S.N.A      |        |
| IC501        | AA96-03027A        | ASSY HEAT SINK P              | AA62-00147A,TDA6111Q,HE          | 1        | S.N.A      |        |
| IC502        | AA96-03027A        | ASSY HEAT SINK P              | AA62-00147A,TDA6111Q,HE          | 1        | S.N.A      |        |
| IC503        | AA96-03027A        | ASSY HEAT SINK P              | AA62-00147A,TDA6111Q,HE          | 1        | S.N.A      |        |
| M0081        | 6003-000334        | SCREW-TAPTITE                 | RH,+2S,M3,L6,ZPC(YEL),SWR        | 1        | S.N.A      |        |
| T0175        | AA62-00147A        | HEAT SINK-PS                  | K62A,A1050,T2.0,35mm,40mm,W      | 1        | S.N.A      |        |
| T0074        | 1201-001131        | IC-VIDEO AMP                  | 6111,SIP,9P,-,SINGLE,-,PLAS      | 1        | S.A        |        |
| IC504        | BH99-00038K        | ASSY HEAT/SINK                | BH62-00041A,SCREW,TDA2030        | 1        | S.N.A      |        |
| CIS1         | 0205-001154        | OIL-SILICON                   | G746,-,-                         | 0.001    | S.N.A      |        |
| M0081        | 6003-000334        | SCREW-TAPTITE                 | RH,+2S,M3,L6,ZPC(YEL),SWR        | 1        | S.N.A      |        |
| T0081        | BH62-00041A        | HEAT SINK-TR                  | PN17LT,A1050S,T1.0,50,23,WH      | 1        | S.N.A      |        |
| DU410        | 1201-000010        | IC-OP AMP                     | 2030,PENTAWATT,5P,-,SINGLE,-,C   | 1        | S.A        |        |
| <b>T0091</b> | <b>AA94-15178A</b> | <b>ASSY PCB MISC-A/V SIDE</b> | <b>,OZ,S62A</b>                  | <b>1</b> | <b>S.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX              | -,RS60S,D1.2,63Sn/37Pb,          | 0.01     | S.N.A      |        |
| CN906        | 3711-000577        | CONNECTOR-HEADER              | BOX,10P,1R,2.5mm,STRAIG          | 1        | S.A        |        |
| JK01         | 3722-000544        | JACK-VHS                      | 4P,11.5mm,AG,BLK,N               | 1        | S.A        |        |
| JA701        | 3722-001164        | JACK-PIN                      | 3P,3.4mm,SN,WH:YE:RE,#16-22      | 1        | S.A        |        |
| T0569        | AA97-15852A        | ASSY AUTO-A/V SIDE            | ,OZ,S62A                         | 1        | S.N.A      |        |
| DZ701        | 0403-000708        | DIODE-ZENER                   | MTZJ13B,12.55-13.21V,500MW,D     | 1        | S.A        |        |
| DZ702        | 0403-000708        | DIODE-ZENER                   | MTZJ13B,12.55-13.21V,500MW,D     | 1        | S.A        |        |
| DZ703        | 0403-000720        | DIODE-ZENER                   | MTZJ9.1B,8.57-9.01V,500MW,DO     | 1        | S.A        |        |
| R701         | 2001-000273        | R-CARBON                      | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| R702         | 2001-000273        | R-CARBON                      | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| C702         | 2202-000121        | C-CERAMIC,MLC-AXIAL           | 100pF,10%,50V,Y5P,TP             | 1        | S.A        |        |
| C703         | 2202-000121        | C-CERAMIC,MLC-AXIAL           | 100pF,10%,50V,Y5P,TP             | 1        | S.A        |        |
| C701         | 2202-000231        | C-CERAMIC,MLC-AXIAL           | 0.33NF,10%,50V,Y5P,T             | 1        | S.A        |        |
| C704         | 2202-000231        | C-CERAMIC,MLC-AXIAL           | 0.33NF,10%,50V,Y5P,T             | 1        | S.A        |        |
| L701         | 2701-000114        | INDUCTOR-AXIAL                | 10UH,10%,2534                    | 1        | S.A        |        |
| L704         | 2701-000114        | INDUCTOR-AXIAL                | 10UH,10%,2534                    | 1        | S.A        |        |
| L702         | 2701-000168        | INDUCTOR-AXIAL                | 3.3UH,5%,2534                    | 1        | S.A        |        |
| L703         | 2701-000168        | INDUCTOR-AXIAL                | 3.3UH,5%,2534                    | 1        | S.A        |        |
| T0091        | AA41-01125A        | PCB-A/V SIDE                  | CT-32Z30HD,FR-1,1L,A,1.6T,2      | 1        | S.N.A      |        |
| M2893        | BP39-00056D        | LEAD CONNECTOR                | K62A(CORE),UL1185#26,UL/C        | 1        | S.A        |        |
| <b>T0137</b> | <b>AA94-15179A</b> | <b>ASSY PCB MISC-LED</b>      | <b>,OZ,S62A</b>                  | <b>1</b> | <b>S.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX              | -,RS60S,D1.2,63Sn/37Pb,          | 0.01     | S.N.A      |        |
| LD01         | 0601-001381        | LED                           | ROUND,RED/GRN,5.0MM,650/563NM    | 1        | S.A        |        |
| CN906        | 3711-001031        | CONNECTOR-HEADER              | BOX,6P,1R,2.5MM,ANGLE,S          | 1        | S.A        |        |
| D0254        | AA32-00012A        | MODULE REMOCON                | ORC-50HF2,38KHZ,940NM,MES        | 1        | S.A        |        |
| T0286        | AA94-15180A        | ASSY PCB MISC-MASTER S/W      | ,OZ,S62A                         | 1        | S.A        |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX              | -,RS60S,D1.2,63Sn/37Pb,          | 0.4      | S.N.A      |        |
| △ SW811S     | 3403-001134        | SWITCH-PUSH                   | 250V,5A,DPST,ON-OFF,-            | 1        | S.A        |        |
| M0081        | 6003-000333        | SCREW-TAPTITE                 | RH,+2S,M3,L10,ZPC(YEL),SW        | 2        | S.N.A      |        |
| M0081        | 6003-000334        | SCREW-TAPTITE                 | RH,+2S,M3,L6,ZPC(YEL),SWR        | 2        | S.N.A      |        |

Electrical Part List

| Loc.No.      | Code No.           | Description                     | Specification                     | Q'ty     | SA/SNA       | Remark |
|--------------|--------------------|---------------------------------|-----------------------------------|----------|--------------|--------|
| T0245        | AA39-20179A        | LEAD CONNECTOR-ASSY             | ,3(2)P,300MM,YFH800-              | 1        | S.A          |        |
| T0523        | AA61-00530B        | BRACKET-MASTER                  | 25M6,29M6,SECC                    | 1        | S.N.A        |        |
| T0023        | AA97-05539A        | ASSY AUTO-MASTER                | WS36Z48D,KS4A,PAL                 | 1        | S.N.A        |        |
| EY01         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| EY02         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| EY03         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| EY04         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| PCB          | AA41-00521A        | PCB-MASTER SW                   | CS32Z4,FR-1,1L,A,1.6T,245         | 1        | S.N.A        |        |
|              | AA97-15853A        | ASSY AUTO-LED                   | ,OZ,S62A                          | 1        | S.N.A        |        |
| DC01         | 0401-000005        | DIODE-SWITCHING                 | 1N4148,75V,150MA,DO-35,T          | 1        | S.A          |        |
| DC02         | 0401-000005        | DIODE-SWITCHING                 | 1N4148,75V,150MA,DO-35,T          | 1        | S.A          |        |
| DZC01        | 0403-000508        | DIODE-ZENER                     | MTZJ5.6B,5.45-5.73V,500MW,DO      | 1        | S.A          |        |
| RC01         | 2001-000020        | R-CARBON(S)                     | 22OHM,5%,1/2W,AA,TP,2.4X6.4M      | 1        | S.A          |        |
| CC01         | 2401-002291        | C-AL                            | 47uF,20%,16V,GP,TP,6.3x5,5        | 1        | S.A          |        |
| 0            | AA41-01123A        | PCB-LED                         | CT-32Z30HD,FR-1,1L,A,1.6T,245X24  | 1        | S.N.A        |        |
| M2893        | BP39-00033C        | LEAD CONNECTOR                  | K62A(CORE),UL1007#26,UL/C         | 1        | S.A          |        |
| <b>T0275</b> | <b>AA94-15148D</b> | <b>ASSY PCB MISC-DEFLECTION</b> | <b>S62A,OZ</b>                    | <b>1</b> | <b>S.N.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX                | -,RS60S,D1.2,63Sn/37Pb,           | 0.22     | S.N.A        |        |
| D414         | 0402-000586        | DIODE-RECTIFIER                 | RK49,90V,3.5A,DO-201AD            | 1        | S.A          |        |
| D401         | 0402-001295        | DIODE-RECTIFIER                 | GUR460L-5700,600V,4A,DO-          | 1        | S.A          |        |
| D402         | 0402-001295        | DIODE-RECTIFIER                 | GUR460L-5700,600V,4A,DO-          | 1        | S.A          |        |
| QH01         | 0502-000442        | TR-POWER                        | 2SC4636RB,NPN,2W,TO-220,ST,10-    | 1        | S.A          |        |
| Q409         | 0505-001116        | FET-SILICON                     | BUZ73A,N,200V,22A,0.6ohm,40W      | 1        | S.A          |        |
| Q409         | 0505-001723        | FET-SILICON                     | FQP630TSTU,N,200V,9A,0.4OHM,      | 1        | S.A          |        |
| DU410        | 1201-000191        | IC-OP AMP                       | 4558,DIP,8P,300MIL,DUAL,20V/mV    | 1        | S.A          |        |
| IC401        | 1202-000103        | IC-VOLTAGE COMP.                | 393,DIP,8P,300MIL,DUAL,           | 1        | S.A          |        |
| IC012        | 1203-000162        | IC-POSI.ADJUST REG.             | 317,TO-220,3P,-,PLAS              | 1        | S.A          |        |
| RP402        | 2001-000109        | R-CARBON(S)                     | 470OHM,5%,1/2W,AA,TP,2.4X6.4      | 1        | S.A          |        |
| R449         | 2006-001020        | R-CEMENT                        | 3.9OHM,5%,5W,CJ,TP,10.5X14X23.5   | 1        | S.A          |        |
| RP405        | 2006-001083        | R-CEMENT                        | 120ohm,5%,5W,CJ,TP,14x10x27mm     | 1        | S.A          |        |
| RP406        | 2006-001085        | R-CEMENT                        | 33ohm,5%,5W,CJ,TP,14x10x27mm      | 1        | S.A          |        |
| CH10         | 2301-001041        | C-FILM,LEAD-PPF                 | 15nF,5%,1.6KV,TP,29x14x2          | 1        | S.A          |        |
| CH07         | 2301-001418        | C-FILM,LEAD-PPF                 | 1.5nF,5%,2kV,TP,29x7x13.          | 1        | S.A          |        |
| △ CR407S     | 2301-001418        | C-FILM,LEAD-PPF                 | 1.5nF,5%,2kV,TP,29x7x13.          | 1        | S.A          |        |
| C434         | 2306-000255        | C-FILM,LEAD-PPF                 | 7.4nF,3%,1.6KV,BK,28.5X1          | 1        | S.A          |        |
| △ CR405S     | 2306-000326        | C-FILM,LEAD-PPF                 | 4.7nF,5%,1.6KV,BK,28.5X1          | 1        | S.A          |        |
| △ CR406S     | 2306-000328        | C-FILM,LEAD-PPF                 | 6.8nF,5%,1.6KV,BK,28.5X9          | 1        | S.A          |        |
| C426         | 2306-000350        | C-FILM,LEAD-PPF                 | 270nF,5%,400V,BK,26X18.5          | 1        | S.A          |        |
| C423         | 2306-001017        | C-FILM,LEAD-PPF                 | 680nF,5%,400V,TP,26x14.5          | 1        | S.A          |        |
| C437         | 2306-001017        | C-FILM,LEAD-PPF                 | 680nF,5%,400V,TP,26x14.5          | 1        | S.A          |        |
| SW401        | 3409-000138        | SWITCH-LEVER                    | 30V,200mA,SP3T,NON SHORTING       | 1        | S.A          |        |
| CN906        | 3711-000577        | CONNECTOR-HEADER                | BOX,10P,1R,2.5mm,STRAIG           | 1        | S.A          |        |
| CN906        | 3711-003241        | CONNECTOR-HEADER                | BOX,14P,1R,2.5MM,STRAIG           | 1        | S.A          |        |
| CN906        | 3711-005582        | CONNECTOR-HEADER                | BOX,24P,2R,2.5mm,STRAIG           | 1        | S.A          |        |
| IC063        | AA13-00094A        | IC HYBRID                       | -,DDR1001A,SIP,5P,-,TP            | 1        | S.A          |        |
| TH01         | AA26-00227A        | TRANS-FOCUS                     | EI-2820,TXP3067WHD,6P,7.0 mH      | 1        | S.A          |        |
| △ T444S      | AA26-00244A        | TRANS FBT                       | FUH29V002,OZ(S62A),2.1mH,U5182    | 1        | S.A          |        |
| T401         | AA26-50001S        | TRANS-HORIZ.DRIVE               | -,-,6.0mH,-,44uH,-                | 1        | S.A          |        |
| T0010        | AA27-00025A        | COIL CHOKE                      | -,1MH,10%,-,BK,-,12X20,14X2       | 1        | S.A          |        |
| T0010        | AA27-00057B        | COIL CHOKE                      | 10mH,YL-9N 15x27.5 C:9.5,0.3m     | 1        | S.A          |        |
| T0010        | AA27-00308B        | COIL CHOKE                      | 3mH,10%,1.8ohm,0.7,14X20 C6.0     | 1        | S.A          |        |
| T0010        | AA27-00344A        | COIL CHOKE                      | CORE(K62A),55uH,10%,0.1ohm,17     | 1        | S.A          |        |
| T0010        | AA27-10001C        | COIL CHOKE                      | -,100uH,K,-,5.0A,ST,700UH-K(R     | 1        | S.A          |        |
| M2893        | AA39-00375B        | LEAD CONNECTOR                  | CT-32Z30HD,UL1007#26,UL/C         | 1        | S.A          |        |
| CN301        | AA60-40012F        | PIN-GT                          | 4P,2.36P1,6/12/14mm,NYLON66,LOCKI | 1        | S.N.A        |        |
| IC301        | AA96-50381A        | ASSY HEAT SINK P                | ,AA62-30180B,LA7845               | 1        | S.N.A        |        |
| T0522        | 0205-001153        | GREASE-SILICON                  | SC102,JAPAN,-                     | 0.09     | S.N.A        |        |
| M0081        | 6003-000333        | SCREW-TAPTITE                   | RH,+2S,M3,L10,ZPC(YEL),SW         | 1        | S.N.A        |        |
| T0066        | AA62-30180B        | HEAT SINK-ES                    | -,A6063 EXTR.,2,WHT,70MM,-,       | 1        | S.N.A        |        |
| T0088        | 1204-000517        | IC-VERTICAL DEF.                | LA7845,SIP,7P,-,PLASTIC           | 1        | S.A          |        |
|              | AA97-15827C        | ASSY AUTO-DEFLECTION            | S62A,OZ                           | 1        | S.N.A        |        |

| Loc.No.  | Code No.    | Description      | Specification                   | Q'ty | SA/SNA | Remark |
|----------|-------------|------------------|---------------------------------|------|--------|--------|
| D302     | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| D404     | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| D405     | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| D410     | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| △ DR01S  | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| △ DR02S  | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| D403     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D406     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D407     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D415     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D422     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| DH01     | 0402-000254 | DIODE-RECTIFIER  | RGP10J,600V,1A,DO-41,TP         | 1    | S.A    |        |
| DH02     | 0402-000254 | DIODE-RECTIFIER  | RGP10J,600V,1A,DO-41,TP         | 1    | S.A    |        |
| D301     | 0402-000493 | DIODE-RECTIFIER  | 1R5GU41,400V,1.5A,DO-15L        | 1    | S.A    |        |
| D409     | 0402-000493 | DIODE-RECTIFIER  | 1R5GU41,400V,1.5A,DO-15L        | 1    | S.A    |        |
| D411     | 0402-000534 | DIODE-RECTIFIER  | RG10V,400V,1.2A,DO-201,T        | 1    | S.A    |        |
| D412     | 0402-000534 | DIODE-RECTIFIER  | RG10V,400V,1.2A,DO-201,T        | 1    | S.A    |        |
| D413     | 0402-000534 | DIODE-RECTIFIER  | RG10V,400V,1.2A,DO-201,T        | 1    | S.A    |        |
| DZ302    | 0403-000699 | DIODE-ZENER      | TZP27B,27-30.8V,1000MW,DO-41    | 1    | S.A    |        |
| DZ306    | 0403-000700 | DIODE-ZENER      | TZP33A,5%,1000MW,DO-41,TP       | 1    | S.A    |        |
| DZ404    | 0403-000700 | DIODE-ZENER      | TZP33A,5%,1000MW,DO-41,TP       | 1    | S.A    |        |
| DP401    | 0403-000701 | DIODE-ZENER      | TZP5,1A,5%,1000MW,DO-41,TP      | 1    | S.A    |        |
| DZ402    | 0403-000708 | DIODE-ZENER      | MTZJ13B,12.55-13.21V,500MW,D    | 1    | S.A    |        |
| △ DZR01S | 0403-000718 | DIODE-ZENER      | MTZJ6.8B,6.52-6.79V,500MW,DO    | 1    | S.A    |        |
| DZ304    | 0403-001221 | DIODE-ZENER      | UZ39BSB,35.36-37.19V,500MW,D    | 1    | S.A    |        |
| DZ401    | 0403-001325 | DIODE-ZENER      | MTZJ15C,14.42-15.02V,500MW,D    | 1    | S.A    |        |
| DZ307    | 0403-001328 | DIODE-ZENER      | MTZJ22A,20.15-21.2V,500MW,DO    | 1    | S.A    |        |
| DZ303    | 0403-001329 | DIODE-ZENER      | MTZJ24B,22.75-23.73V,500MW,D    | 1    | S.A    |        |
| DZ305    | 0403-001329 | DIODE-ZENER      | MTZJ24B,22.75-23.73V,500MW,D    | 1    | S.A    |        |
| QH02     | 0501-000283 | TR-SMALL SIGNAL  | KSA539,PNP,400mW,TO-92,T        | 1    | S.A    |        |
| QH04     | 0501-000283 | TR-SMALL SIGNAL  | KSA539,PNP,400mW,TO-92,T        | 1    | S.A    |        |
| QH03     | 0501-000369 | TR-SMALL SIGNAL  | KSC2331-Y,NPN,1000mW,TO-        | 1    | S.A    |        |
| QP402    | 0501-000389 | TR-SMALL SIGNAL  | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| QP405    | 0501-000389 | TR-SMALL SIGNAL  | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| Q409     | 0505-000109 | FET-SILICON      | 2N7000,N,60V,200mA,5ohm,400m    | 1    | S.A    |        |
| △ QR01S  | 1203-001274 | IC-VOL. DETECTOR | 7545,TO-92,3P,-,PLASTIC         | 1    | S.A    |        |
| R421     | 2001-000002 | R-CARBON(S)      | 200KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| RH09     | 2001-000008 | R-CARBON         | 15KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH14     | 2001-000008 | R-CARBON         | 15KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH15     | 2001-000008 | R-CARBON         | 15KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R303     | 2001-000016 | R-CARBON(S)      | 10HM,5%,1/2W,AA,TP,2.4X6.4MM    | 1    | S.A    |        |
| R418     | 2001-000028 | R-CARBON(S)      | 100OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R439     | 2001-000028 | R-CARBON(S)      | 100OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R317     | 2001-000066 | R-CARBON(S)      | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R442     | 2001-000066 | R-CARBON(S)      | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RP403    | 2001-000066 | R-CARBON(S)      | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RH19     | 2001-000109 | R-CARBON(S)      | 470OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RH07     | 2001-000221 | R-CARBON         | 1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| RP407    | 2001-000281 | R-CARBON         | 100OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R309     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R310     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH02     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH03     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH12     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| △ RR06S  | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH13     | 2001-000319 | R-CARBON         | 120KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| RH05     | 2001-000331 | R-CARBON         | 12KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH10     | 2001-000331 | R-CARBON         | 12KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R441     | 2001-000429 | R-CARBON         | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| RH06     | 2001-000515 | R-CARBON         | 220OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RP401    | 2001-000734 | R-CARBON         | 4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| RH08     | 2001-000812 | R-CARBON         | 5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| △ RR05S  | 2001-000832 | R-CARBON         | 510OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| △ RR02S  | 2001-000904 | R-CARBON         | 620OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R444     | 2001-001054 | R-CARBON(S)      | 1.6KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| RH23     | 2001-001055 | R-CARBON(S)      | 1.8KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R420     | 2001-001070 | R-CARBON(S)      | 120OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RH16     | 2001-001078 | R-CARBON(S)      | 15KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |

Electrical Part List

| Loc.No.  | Code No.    | Description      | Specification                  | Q'ty | SA/SNA | Remark |
|----------|-------------|------------------|--------------------------------|------|--------|--------|
| R419     | 2001-001088 | R-CARBON(S)      | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M   | 1    | S.A    |        |
| R436     | 2001-001088 | R-CARBON(S)      | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M   | 1    | S.A    |        |
| RP404    | 2001-001088 | R-CARBON(S)      | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M   | 1    | S.A    |        |
| R455     | 2001-001111 | R-CARBON(S)      | 240OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| RH11     | 2001-001138 | R-CARBON(S)      | 390OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| RH17     | 2001-001143 | R-CARBON(S)      | 4.3KOHM,5%,1/2W,AA,TP,2.4X6.   | 1    | S.A    |        |
| RH04     | 2001-001144 | R-CARBON(S)      | 4.7KOHM,5%,1/2W,AA,TP,2.4X6.   | 1    | S.A    |        |
| R301     | 2001-001163 | R-CARBON(S)      | 560OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R415     | 2001-001178 | R-CARBON(S)      | 680OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R433     | 2001-001194 | R-CARBON(S)      | 82KOHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R302     | 2001-001197 | R-CARBON(S)      | 910OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R308     | 2001-001197 | R-CARBON(S)      | 910OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R407     | 2003-000493 | R-METAL OXIDE(S) | 12ohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R412     | 2003-000493 | R-METAL OXIDE(S) | 12ohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R416     | 2003-000493 | R-METAL OXIDE(S) | 12ohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R404     | 2003-000540 | R-METAL OXIDE(S) | 1Kohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R405     | 2003-000540 | R-METAL OXIDE(S) | 1Kohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R426     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R427     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R429     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R445     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R409     | 2003-000998 | R-METAL OXIDE    | 300ohm,5%,2W,AF,TP,3.9x10m     | 1    | S.A    |        |
| R410     | 2003-000998 | R-METAL OXIDE    | 300ohm,5%,2W,AF,TP,3.9x10m     | 1    | S.A    |        |
| R435     | 2003-001042 | R-METAL OXIDE(S) | 5.6Kohm,5%,2W,AF,TP,3.9        | 1    | S.A    |        |
| R401     | 2003-001090 | R-METAL OXIDE(S) | 10Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R402     | 2003-001090 | R-METAL OXIDE(S) | 10Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R447     | 2003-001090 | R-METAL OXIDE(S) | 10Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| RH20     | 2003-002024 | R-METAL OXIDE(S) | 91Kohm,5%,2W,AF,TP,3.9x        | 1    | S.A    |        |
| RH21     | 2003-002024 | R-METAL OXIDE(S) | 91Kohm,5%,2W,AF,TP,3.9x        | 1    | S.A    |        |
| R446     | 2003-002102 | R-METAL OXIDE(S) | 68Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| RH22     | 2003-002212 | R-METAL OXIDE(S) | 75Kohm,5%,2W,AF,TP,3.9X        | 1    | S.A    |        |
| R431     | 2004-000531 | R-METAL          | 20Kohm,1%,1/2W,AA,TP,2.3x6.5mm | 1    | S.A    |        |
| R428     | 2004-000698 | R-METAL          | 3.3Kohm,1%,1/4W,AA,TP,2.4x6.4m | 1    | S.A    |        |
| R417     | 2004-001371 | R-METAL(S)       | 1.5Kohm,1%,1/2W,AA,TP,2.4x6.4  | 1    | S.A    |        |
| R423     | 2004-001371 | R-METAL(S)       | 1.5Kohm,1%,1/2W,AA,TP,2.4x6.4  | 1    | S.A    |        |
| △ RR430S | 2004-001390 | R-METAL(S)       | 1Kohm,2%,1/2W,AA,TP,2.4x6.4mm  | 1    | S.A    |        |
| R454     | 2004-001394 | R-METAL(S)       | 2Kohm,1%,1/2W,AA,TP,2.4x6.4mm  | 1    | S.A    |        |
| R414     | 2004-001970 | R-METAL(S)       | 1.8Kohm,1%,1/2W,AA,TP,6.5x2.5  | 1    | S.A    |        |
| R411     | 2004-001987 | R-METAL(S)       | 4.3Kohm,1%,1/2W,AA,TP,2.4x6.4  | 1    | S.A    |        |
| R430     | 2004-002016 | R-METAL(S)       | 15Kohm,1%,1/2W,AA,TP,2.5x6.5m  | 1    | S.A    |        |
| R440     | 2004-002016 | R-METAL(S)       | 15Kohm,1%,1/2W,AA,TP,2.5x6.5m  | 1    | S.A    |        |
| R316     | 2004-004046 | R-METAL(S)       | 430Kohm,1%,1/2W,AA,TP,2.5x6.5  | 1    | S.A    |        |
| R314     | 2004-005051 | R-METAL(S)       | 2.2KOHM,1%,1/2W,AA,TP,2.4X6.4  | 1    | S.A    |        |
| R315     | 2004-005051 | R-METAL(S)       | 2.2KOHM,1%,1/2W,AA,TP,2.4X6.4  | 1    | S.A    |        |
| RH18     | 2004-005051 | R-METAL(S)       | 2.2KOHM,1%,1/2W,AA,TP,2.4X6.4  | 1    | S.A    |        |
| R424     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R425     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R437     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R438     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R307     | 2008-000266 | R-FUSIBLE(S)     | 1ohm,5%,2W,AF,TP,3.9x10mm      | 1    | S.A    |        |
| R422     | 2008-000284 | R-FUSIBLE(S)     | 0.1OHM,10%,2W,AF,TP,3.9X10M    | 1    | S.A    |        |
| R448     | 2008-000284 | R-FUSIBLE(S)     | 0.1OHM,10%,2W,AF,TP,3.9X10M    | 1    | S.A    |        |
| R304     | 2008-001013 | R-FUSIBLE(S)     | 1.2ohm,5%,2W,AF,TP,3.9x10mm    | 1    | S.A    |        |
| R311     | 2008-001018 | R-FUSIBLE(S)     | 0.47ohm,10%,2W,AF,TP,3.9x10    | 1    | S.A    |        |
| RH28     | 2008-001149 | R-FUSIBLE(S)     | 0.22OHM,5%,2W,AF,TP,3.8X11M    | 1    | S.A    |        |
| R319     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| R320     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| R453     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| R456     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| C303     | 2201-000132 | C-CERAMIC,DISC   | 0.1NF,10%,500V,Y5P,TP,6.5      | 1    | S.A    |        |
| C401     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C403     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C421     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C424     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C411     | 2301-000160 | C-FILM,LEAD-PEF  | 12nF,5%,50V,TP,11.0x6.0x       | 1    | S.A    |        |
| C432     | 2301-000192 | C-FILM,LEAD-PEF  | 1nF,5%,50V,TP,5.3x10mm,5       | 1    | S.A    |        |
| C420     | 2301-000213 | C-FILM,LEAD-PEF  | 220nF,5%,250V,TP,21.5x11       | 1    | S.A    |        |
| C306     | 2301-000224 | C-FILM,LEAD-PEF  | 22nF,5%,50V,TP,7.4x3.9x1       | 1    | S.A    |        |

| Loc.No. | Code No.    | Description         | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|---------------------|----------------------------------|------|--------|--------|
| C416    | 2301-000247 | C-FILM,LEAD-PEF     | 33nF,5%,50V,TP,8.1x4.5x1         | 1    | S.A    |        |
| C412    | 2301-000383 | C-FILM,LEAD-PEF     | 10nF,5%,50V,TP,6x7x3.2mm         | 1    | S.A    |        |
| C408    | 2301-001083 | C-FILM,LEAD-PPF     | 27nF,5%,400V,TP,20x7.5x1         | 1    | S.A    |        |
| CP401   | 2301-001171 | C-FILM,LEAD-PPF     | 10nF,5%,400V,TP,20x6.5x1         | 1    | S.A    |        |
| C409    | 2301-001385 | C-FILM,LEAD-PPF     | 30nF,5%,630V,TP,20x15.5x         | 1    | S.A    |        |
| C406    | 2303-000163 | C-FILM,LEAD-PPF     | 2.2nF,5%,800V,TP,15x13x8         | 1    | S.A    |        |
| C309    | 2305-000149 | C-FILM,LEAD-PEF     | 100nF,5%,100V,TP,12x12.5         | 1    | S.A    |        |
| C304    | 2305-000285 | C-FILM,LEAD-PEF     | 220NF,5%,100V,TP,10.5X5.         | 1    | S.A    |        |
| C308    | 2305-000411 | C-FILM,LEAD-PEF     | 470nF,5%,50V,TP,7.3x4.8x         | 1    | S.A    |        |
| C407    | 2305-000412 | C-FILM,LEAD-PEF     | 470nF,5%,63V,TP,-,5mm            | 1    | S.A    |        |
| C440    | 2305-000412 | C-FILM,LEAD-PEF     | 470nF,5%,63V,TP,-,5mm            | 1    | S.A    |        |
| C417    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C430    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C442    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C419    | 2305-001011 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,3.5x12.5         | 1    | S.A    |        |
| C425    | 2306-000127 | C-FILM,LEAD-PPF     | 120nF,5%,400V,TP,21.5x17         | 1    | S.A    |        |
| C405    | 2401-000038 | C-AL                | 470uF,20%,25V,GP,TP,10x12.5mm,   | 1    | S.A    |        |
| C443    | 2401-000039 | C-AL                | 1000uF,20%,16V,GP,TP,10x16,5     | 1    | S.A    |        |
| △ CR03S | 2401-000050 | C-AL                | 10uF,20%,16V,GP,TP,5x11,2,5      | 1    | S.A    |        |
| CH02    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11,5     | 1    | S.A    |        |
| CH03    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11,5     | 1    | S.A    |        |
| CH05    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11,5     | 1    | S.A    |        |
| CH04    | 2401-000318 | C-AL                | 100uF,20%,25V,LZ,TP,8x11.5,5     | 1    | S.A    |        |
| CH06    | 2401-000318 | C-AL                | 100uF,20%,25V,LZ,TP,8x11.5,5     | 1    | S.A    |        |
| C302    | 2401-000365 | C-AL                | 100uF,20%,50V,WT,TP,10x12.5mm,   | 1    | S.A    |        |
| C307    | 2401-000365 | C-AL                | 100uF,20%,50V,WT,TP,10x12.5mm,   | 1    | S.A    |        |
| C427    | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1    | S.A    |        |
| C429    | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1    | S.A    |        |
| CH01    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5,5     | 1    | S.A    |        |
| C404    | 2401-001838 | C-AL                | 470uF,20%,25V,WT,TP,10x16,5      | 1    | S.A    |        |
| C402    | 2401-002231 | C-AL                | 470uF,20%,50V,WT,TP,13x20mm,5m   | 1    | S.A    |        |
| C418    | 2401-002459 | C-AL                | 220uF,20%,25V,LZ,TP,10x16,5      | 1    | S.A    |        |
| C444    | 2401-003036 | C-AL                | 100uF,20%,16V,GP,TP,5X11mm,5mm   | 1    | S.A    |        |
| C438    | 2401-003058 | C-AL                | 100uF,20%,200V,WT,TP,16x25,7.5   | 1    | S.A    |        |
| C414    | 2401-003139 | C-AL                | 1000uF,20%,25V,WT,TP,10*20,5mm   | 1    | S.A    |        |
| C441    | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1    | S.A    |        |
| C428    | 2401-003555 | C-AL                | 3300uF,20%,25V,WT,TP,16x25,7.5   | 1    | S.A    |        |
| C431    | 2401-003578 | C-AL                | 1000uF,20%,10V,GP,TP,8x20mm,5    | 1    | S.A    |        |
| C433    | 2401-003578 | C-AL                | 1000uF,20%,10V,GP,TP,8x20mm,5    | 1    | S.A    |        |
| L301    | 2701-000114 | INDUCTOR-AXIAL      | 10UH,10%,2534                    | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -.3A,-,-,3.5x5,TP,-              | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -.3A,-,-,3.5x5,TP,-              | 1    | S.A    |        |
| F101    | 2901-000299 | FILTER-EMI ON BOARD | -.6A,UL/CSA,-,9x7.5,             | 1    | S.A    |        |
| F101    | 2901-000299 | FILTER-EMI ON BOARD | -.6A,UL/CSA,-,9x7.5,             | 1    | S.A    |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| EL401   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL402   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL403   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL404   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL405   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL406   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY302   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY306   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY401   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY402   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY403   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY404   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY405   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY406   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY407   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY408   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY409   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY410   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |



Electrical Part List

| Loc.No. | Code No.    | Description           | Specification                  | Q'ty | SA/SNA | Remark |
|---------|-------------|-----------------------|--------------------------------|------|--------|--------|
| EY411   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY412   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY413   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY414   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY415   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY416   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY417   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY418   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY419   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY420   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY421   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY422   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY423   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY424   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY425   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY426   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY427   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY428   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY429   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY430   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY431   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY432   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY433   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY434   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY435   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY436   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY437   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY438   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY439   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY440   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY441   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY442   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY443   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY444   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY445   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY446   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY447   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY448   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY449   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY450   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY451   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY452   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY453   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY454   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY455   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY456   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY457   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY458   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY459   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY460   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY466   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY467   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY468   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY469   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY475   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY476   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY477   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY478   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY479   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY480   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY481   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY482   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| CN909   | AA37-00001A | CONNECTOR-FBT FIX PIN | JM-3500,CPTTV,0.36             | 1    | S.A    |        |
| CN909   | AA37-00001A | CONNECTOR-FBT FIX PIN | JM-3500,CPTTV,0.36             | 1    | S.A    |        |
| 0       | AA41-01121C | PCB-DEFLECTION        | CT-32230HD,CEM-1,1L,C,1.6      | 1    | S.N.A  |        |
| GT811   | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| GT811   | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| R413    | 2004-004015 | R-METAL(S)            | 9.1Kohm,1%,1/2W,AA,TP,2.5x6.5  | 1    | S.A    |        |

| Loc.No.      | Code No.           | Description                 | Specification                      | Q'ty     | SA/SNA       | Remark |
|--------------|--------------------|-----------------------------|------------------------------------|----------|--------------|--------|
| R408         | 2008-001015        | R-FUSIBLE(S)                | 1.5ohm,5%,2W,AF,TP,3.9x10mm        | 1        | S.A          |        |
| C422         | 2401-001563        | C-AL                        | 47uF,20%,400V,GP,TP,16x25,7.5      | 1        | S.A          |        |
| Q404         | BP96-00020P        | ASSY HEAT SINK P            | AA62-00045A,SCREW,FQP63            | 1        | S.N.A        |        |
| CIS1         | 0205-001154        | OIL-SILICON                 | G746,-,-                           | 0.1      | S.N.A        |        |
| M0081        | 6003-000335        | SCREW-TAPTITE               | RH,+2S,M3,L8,ZPC(YEL),SWR          | 1        | S.N.A        |        |
| T0175        | AA62-00045A        | HEAT SINK-PS                | -,-,T1.0,-,-,DREAM,-,-,-,-,        | 1        | S.N.A        |        |
| Q409         | 0505-001723        | FET-SILICON                 | FQP630TSTU,N,200V,9A,0.4OHM,       | 1        | S.A          |        |
| HS401        | BP96-00020Q        | ASSY HEAT SINK P            | AA62-00045A,SCREW,KA278            | 1        | S.N.A        |        |
| CIS1         | 0205-001154        | OIL-SILICON                 | G746,-,-                           | 0.1      | S.N.A        |        |
| M0081        | 6003-000335        | SCREW-TAPTITE               | RH,+2S,M3,L8,ZPC(YEL),SWR          | 1        | S.N.A        |        |
| T0175        | AA62-00045A        | HEAT SINK-PS                | -,-,T1.0,-,-,DREAM,-,-,-,-,        | 1        | S.N.A        |        |
| T0087        | 1203-002003        | IC-POS.FIXED REG.           | 278R09,TO-220,4P,-,PL              | 1        | S.A          |        |
| HS402        | BP96-00020V        | ASSY HEAT SINK P            | AA62-00045B,SCREW,GM713            | 1        | S.N.A        |        |
| CIS1         | 0205-001154        | OIL-SILICON                 | G746,-,-                           | 0.1      | S.N.A        |        |
| M0081        | 6003-000335        | SCREW-TAPTITE               | RH,+2S,M3,L8,ZPC(YEL),SWR          | 1        | S.N.A        |        |
| T0098        | AA62-00045B        | HEAT SINK                   | COMMANDO,AL1050,T1.0,H45.0         | 1        | S.N.A        |        |
| H/S          | 1203-001161        | IC-DC/DC CONVERTER          | GM7130,TO-220,5P,-,PL              | 1        | S.A          |        |
| R313         | 2006-001081        | R-CEMENT                    | 82ohm,5%,5W,CJ,TP,14x10x27mm       | 1        | S.A          |        |
| R322         | 2006-001081        | R-CEMENT                    | 82ohm,5%,5W,CJ,TP,14x10x27mm       | 1        | S.A          |        |
| C425BOT      | 2303-000141        | C-FILM,LEAD-PPF             | 18nF,5%,400V,TP,20x13.5x           | 1        | S.A          |        |
| Q403         | AA96-03394A        | ASSY HEAT SINK P            | AA62-00072B,SCREW,FJL69            | 1        | S.N.A        |        |
| CIS1         | 0205-001154        | OIL-SILICON                 | G746,-,-                           | 0.1      | S.N.A        |        |
|              | 0502-001230        | TR-POWER                    | FJL6920YDTU,N,200000MW,TO-264 F    | 1        | S.A          |        |
| M0081        | 6003-000333        | SCREW-TAPTITE               | RH,+2S,M3,L10,ZPC(YEL),SW          | 2        | S.N.A        |        |
|              | AA62-30177A        | HEAT SINK-PN                | -,CUS-1,T1.0,-,KCV12D,-,-,1        | 1        | S.N.A        |        |
| T0239        | BH73-00028B        | SILICON/RUBBER-HS           | TV ALL,SILICON,26*30*T             | 1        | S.N.A        |        |
| T0175        | BP62-00072B        | HEAT SINK-PS                | BP62-00072A,T2.0, BP62-00064       | 1        | S.A          |        |
| D418         | AA96-03402A        | ASSY HEAT SINK P            | AA62-30181W,SCREW,FMP-3            | 1        | S.N.A        |        |
| CIS1         | 0205-001154        | OIL-SILICON                 | G746,-,-                           | 0.4      | S.N.A        |        |
|              | 0402-001296        | DIODE-RECTIFIER             | FMP-3FU,1.5KV,5A,DO-201A           | 1        | S.A          |        |
| M0081        | 6003-000333        | SCREW-TAPTITE               | RH,+2S,M3,L10,ZPC(YEL),SW          | 1        | S.N.A        |        |
| T0105        | AA60-30001A        | WASHER-PLATE                | M3,ID3.5,15X8.5,T1.0,SBHG          | 1        | S.N.A        |        |
| T0066        | AA62-30181W        | HEAT SINK-ES                | ,AL6063,T2.0,70MM,SCREW,BP6        | 1        | S.A          |        |
| T0296        | AA27-00353A        | COIL LINEARITY              | 6.4uH,6,DR 17 X 25 (C:6.5          | 1        | S.A          |        |
| T0010        | AA27-00354A        | COIL CHOKE                  | WS32Z30HE,140 uH,10%,0.300 Ø       | 1        | S.A          |        |
| <b>M0014</b> | <b>AA94-15259D</b> | <b>ASSY PCB MAIN-SYSTEM</b> | <b>WS32Z30/BWT,S62A,OZ</b>         | <b>1</b> | <b>S.N.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX            | -,RS60S,D1.2,63Sn/37Pb,            | 0.25     | S.N.A        |        |
| DC51         | 2301-000224        | C-FILM,LEAD-PEF             | 22nF,5%,50V,TP,7.4x3.9x1           | 1        | S.A          |        |
| DC41         | 2301-001664        | C-FILM,LEAD-OTHER           | 100nF,3%,50V,TP,20x16x             | 1        | S.A          |        |
| C642         | 2401-001998        | C-AL                        | 1000uF,20%,25V,GP,TP,10x20,5mm     | 1        | S.A          |        |
| T0122        | 2802-001177        | RESONATOR-CERAMIC           | 2.696MHZ,0.4%,BK,10X4,             | 1        | S.A          |        |
| L2514        | 3301-000287        | BEAD-AXIAL                  | ,3.5x1.0x6.0mm,3000mA,TP,,50       | 1        | S.N.A        |        |
| CN906        | 3711-000577        | CONNECTOR-HEADER            | BOX,10P,1R,2.5mm,STRAIG            | 1        | S.A          |        |
| CN906        | 3711-000654        | CONNECTOR-HEADER            | BOX,12P,1R,2.5mm,STRAIG            | 1        | S.A          |        |
| CN906        | 3711-001038        | CONNECTOR-HEADER            | BOX,6P,1R,2.5mm,STRAIGH            | 1        | S.A          |        |
| CN906        | 3711-003043        | CONNECTOR-HEADER            | BOX,4P,1R,2.5MM,STRAIGH            | 1        | S.A          |        |
| CN906        | 3711-003204        | CONNECTOR-HEADER            | BOX,24P,2R,2mm,STRAIGHT            | 1        | S.A          |        |
| CN906        | 3711-004379        | CONNECTOR-HEADER            | BOX,4P,1R,2MM,STRAIGHT,            | 1        | S.A          |        |
| CN906        | 3711-005582        | CONNECTOR-HEADER            | BOX,24P,2R,2.5mm,STRAIG            | 1        | S.A          |        |
| JA702        | 3722-001729        | JACK-PIN                    | 7P(10P)-,NI,RD/RD/WH/WH/RD/BL/     | 1        | S.A          |        |
| JA701        | 3722-001884        | JACK-SCART                  | 42P,-,SNPB,BLK,-                   | 1        | S.A          |        |
| T0568        | AA39-30007A        | CBF IF                      | -,T,100mm,1365#26                  | 1        | S.A          |        |
| CIS3         | AA40-00130A        | TUNER                       | TMQZ2-401A,PAL-CS,PAL Hyper,38.9MH | 1        | S.A          |        |
| CIS3         | AA40-00132A        | TUNER                       | TMQZ2-410A,PAL-CS,PAL Hyper,38.9MH | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                 | AUTO                               | 1        | S.A          |        |
| IC602        | AA96-50398A        | ASSY HEAT SINK P            | ,AA62-30182E,TDA7297               | 1        | S.N.A        |        |
| T0522        | 0205-001153        | GREASE-SILICON              | SC102,JAPAN,-                      | 0.09     | S.N.A        |        |
| M0081        | 6003-000333        | SCREW-TAPTITE               | RH,+2S,M3,L10,ZPC(YEL),SW          | 1        | S.N.A        |        |
| T0066        | AA62-30182E        | HEAT SINK-ES                | -,A6063 EXTR,-,WHT,-,-,-,40        | 1        | S.N.A        |        |
| T0124        | 1201-001064        | IC-POWER AMP                | 7297,ZIP,15P,-,DUAL,32dB,PL        | 1        | S.A          |        |
|              | AA97-15811D        | ASSY SMD-SYSTEM             | WS32Z30/BWT,S62A,OZ                | 1        | S.N.A        |        |
|              | 0202-001375        | SOLDER-CREAM                | RMA-20-21L,S63,-,Sn63/Pb36.        | 6.94     | S.N.A        |        |
| D201         | 0401-000133        | DIODE-SWITCHING             | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D202         | 0401-000133        | DIODE-SWITCHING             | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D604         | 0401-000133        | DIODE-SWITCHING             | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D903         | 0401-000133        | DIODE-SWITCHING             | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D904         | 0401-000133        | DIODE-SWITCHING             | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |

## Electrical Part List

| Loc.No. | Code No.    | Description     | Specification                | Q'ty | SA/SNA | Remark |
|---------|-------------|-----------------|------------------------------|------|--------|--------|
| DD01    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD02    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD08    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD09    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD10    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD13    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD14    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD15    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD16    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD17    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD18    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD19    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DZ602   | 0403-000314 | DIODE-ZENER     | RLZJ9.1B,8.8-9.3V,500MW,LL-3 | 1    | S.A    |        |
| DD20    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DD23    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DD24    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DZ601   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DZ603   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DZ604   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ701   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ702   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ703   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ704   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ705   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ706   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ707   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ708   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ709   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ710   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ711   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| RZ901   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| RZ902   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| ZM03    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DD11    | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| DD25    | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| SDZ01   | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| SDZ02   | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| DD03    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD04    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD05    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD06    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD07    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD22    | 0403-001284 | DIODE-ZENER     | RLZ3.3A,3.16-3.38V,500MW,LL- | 1    | S.A    |        |
| ZM02    | 0403-001284 | DIODE-ZENER     | RLZ3.3A,3.16-3.38V,500MW,LL- | 1    | S.A    |        |
| DQ02    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ03    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ04    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ05    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ10    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| EQ02    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| SQ01    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ01    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ06    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ07    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ08    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ11    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| EQ01    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| EQ03    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q101    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q603    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q604    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q901    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q904    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q907    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q908    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ09    | 0501-000727 | TR-SMALL SIGNAL | BC848C,NPN,310mW,SOT-23,     | 1    | S.A    |        |
| Q409    | 0505-001679 | FET-SILICON     | FDC6301N,N,25V,0.22A,5OHM,0. | 1    | S.A    |        |
| IC104   | 0801-000662 | IC-CMOS LOGIC   | 74HC123,MULTIVIBATOR,SOP,1   | 1    | S.A    |        |



| Loc.No. | Code No.    | Description        | Specification                  | Q'ty | SA/SNA | Remark |
|---------|-------------|--------------------|--------------------------------|------|--------|--------|
| IC106   | 1001-001082 | IC-VIDEO SWITCH    | BA7657F,-,SOP,24P,300MIL       | 1    | S.A    |        |
| IC108   | 1002-001398 | IC-A/D CONVERTER   | MST9883CR-110,24Bit(8x3        | 1    | S.A    |        |
| IC112   | 1103-001223 | IC-EEPROM          | 24C16,2Kx8,SOP,8P,5x4mm,2.7/5. | 1    | S.A    |        |
| IC06    | 1203-001211 | IC-VOL. DETECTOR   | 7027,SOT-89,3P,-,PLASTI        | 1    | S.A    |        |
| IC20    | 1203-001211 | IC-VOL. DETECTOR   | 7027,SOT-89,3P,-,PLASTI        | 1    | S.A    |        |
| ICM04   | 1203-001814 | IC-VOL. DETECTOR   | 7025,SOT-89,4P,98MIL,PL        | 1    | S.A    |        |
| T0087   | 1203-002186 | IC-POSI.FIXED REG. | 18,DPAK,3P,240MIL,PLA          | 1    | S.A    |        |
| T0087   | 1203-002186 | IC-POSI.FIXED REG. | 18,DPAK,3P,240MIL,PLA          | 1    | S.A    |        |
| T0087   | 1203-002699 | IC-POSI.FIXED REG. | 78D05,DPAK,3P,6.6X6.1          | 1    | S.A    |        |
| IC062   | 1203-003183 | IC-MULTI REG.      | SI-3002KWM-TL,DPAK,5P,6.6X     | 1    | S.A    |        |
| IC02    | 1204-001814 | IC-SELECTOR        | CXA2151Q,QFP,48P,144MIL,PLAS   | 1    | S.A    |        |
| ICM01   | 1204-001912 | IC-DECODER         | SDA5550M,P-MQFP,100P,-,PLASTI  | 1    | S.A    |        |
| IC118   | 1204-001989 | IC-VIDEO PROCESS   | CXA2165Q,QFP,64P,20X14M        | 1    | S.A    |        |
| IC601   | 1204-002048 | IC-AUDIO PROCESSOR | MSP3411G-QA-B8V3,PQFP          | 1    | S.A    |        |
| IC01    | 1204-002395 | IC-VIDEO DECODER   | VSP9407B-C4,QFP,80P,14x        | 1    | S.A    |        |
| XR03    | 2007-000043 | R-CHIP             | 1Kohm,1%,1/10W,TP,1608         | 1    | S.A    |        |
| XR04    | 2007-000043 | R-CHIP             | 1Kohm,1%,1/10W,TP,1608         | 1    | S.A    |        |
| DR23    | 2007-000052 | R-CHIP             | 10Kohm,1%,1/10W,TP,1608        | 1    | S.A    |        |
| SR26    | 2007-000052 | R-CHIP             | 10Kohm,1%,1/10W,TP,1608        | 1    | S.A    |        |
| AR01    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| AR02    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| DR07    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| ER50    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| JP301   | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| JP703   | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| JP704   | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| L609    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R710    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R711    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R918    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R940    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R962    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| RM02    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| RM04    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| RM05    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR08    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR11    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR12    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR07    | 2007-000071 | R-CHIP             | 22ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR40    | 2007-000072 | R-CHIP             | 47ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR41    | 2007-000072 | R-CHIP             | 47ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R926    | 2007-000072 | R-CHIP             | 47ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| AR04    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| AR10    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| AR14    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| AR15    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR03    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR04    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR05    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR06    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR09    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR10    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR11    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR18    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR19    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR21    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR30    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR35    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR36    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR49    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR50    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR51    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR58    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR59    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR60    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR88    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| ER02    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| ER14    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |

Electrical Part List

| Loc.No. | Code No.    | Description | Specification           | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|-------------------------|------|--------|--------|
| ER15    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R113    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R604    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R605    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R905    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R909    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R941    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R942    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R947    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R948    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R951    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R970    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R971    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| RM01    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| RM08    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR07    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR08    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR12    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR13    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR14    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR29    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| XR01    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| XR02    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| XR63    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R610    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R611    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R612    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R613    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR15    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR16    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR17    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR20    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR21    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR22    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR25    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR92    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER07    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER18    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER30    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER32    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R607    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R608    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R609    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R614    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R615    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R616    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R650    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R651    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R652    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R653    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R654    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R655    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R910    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R919    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R920    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R923    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR28    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR43    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR44    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR45    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR46    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| ER38    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| ER46    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R110    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R901    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R902    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R916    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R921    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |

| Loc.No. | Code No.    | Description | Specification             | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|---------------------------|------|--------|--------|
| R969    | 2007-000078 | R-CHIP      | 1Kohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| RM07    | 2007-000078 | R-CHIP      | 1Kohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| DR86    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| DR87    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| R936    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| SR27    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| AR09    | 2007-000081 | R-CHIP      | 2.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR32    | 2007-000081 | R-CHIP      | 2.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR33    | 2007-000082 | R-CHIP      | 3.3Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR34    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR37    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR63    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R623    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R906    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R908    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R924    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R925    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R927    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R928    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R933    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R938    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR13    | 2007-000086 | R-CHIP      | 5.6Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR14    | 2007-000086 | R-CHIP      | 5.6Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| R913    | 2007-000088 | R-CHIP      | 7.5Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR47    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR61    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR62    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR64    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR80    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| ER09    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R606    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R618    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R626    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R627    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R633    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R636    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R701    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R702    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R912    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R931    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R932    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R934    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R935    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| RM03    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| XR09    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR24    | 2007-000092 | R-CHIP      | 15Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R621    | 2007-000092 | R-CHIP      | 15Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R622    | 2007-000092 | R-CHIP      | 15Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| ER08    | 2007-000093 | R-CHIP      | 20Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR82    | 2007-000094 | R-CHIP      | 22Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R953    | 2007-000094 | R-CHIP      | 22Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR81    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| ER06    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R108    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R109    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R960    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R105    | 2007-000098 | R-CHIP      | 56Kohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| DR27    | 2007-000107 | R-CHIP      | 470Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| AR05    | 2007-000113 | R-CHIP      | 33ohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| XR62    | 2007-000113 | R-CHIP      | 33ohm,5%, 1/10W,TP,1608   | 1    | S.A    |        |
| DR29    | 2007-000118 | R-CHIP      | 390ohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| R922    | 2007-000120 | R-CHIP      | 680ohm,5%, 1/10W,TP,1608  | 1    | S.A    |        |
| AR11    | 2007-000123 | R-CHIP      | 1.5Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| AR12    | 2007-000123 | R-CHIP      | 1.5Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| AR13    | 2007-000123 | R-CHIP      | 1.5Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR31    | 2007-000124 | R-CHIP      | 2.2Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR38    | 2007-000124 | R-CHIP      | 2.2Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |
| DR39    | 2007-000124 | R-CHIP      | 2.2Kohm,5%, 1/10W,TP,1608 | 1    | S.A    |        |

Electrical Part List

| Loc.No. | Code No.    | Description | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|----------------------------------|------|--------|--------|
| R833    | 2007-000124 | R-CHIP      | 2.2Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R903    | 2007-000124 | R-CHIP      | 2.2Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R904    | 2007-000124 | R-CHIP      | 2.2Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R945    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R946    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R952    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R958    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR66    | 2007-000126 | R-CHIP      | 4.3Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R646    | 2007-000127 | R-CHIP      | 9.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R647    | 2007-000127 | R-CHIP      | 9.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R104    | 2007-000130 | R-CHIP      | 39Kohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R703    | 2007-000130 | R-CHIP      | 39Kohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R704    | 2007-000130 | R-CHIP      | 39Kohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R961    | 2007-000134 | R-CHIP      | 33Kohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| DR52    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR53    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR54    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR55    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR56    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR57    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR91    | 2007-000259 | R-CHIP      | 1.6Kohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R644    | 2007-000287 | R-CHIP      | 100OHM,1%,1/10W,TP,1608          | 1    | S.A    |        |
| R645    | 2007-000287 | R-CHIP      | 100OHM,1%,1/10W,TP,1608          | 1    | S.A    |        |
| SR37    | 2007-000308 | R-CHIP      | 10ohm,5%,1/8W,TP,2012            | 1    | S.A    |        |
| SR38    | 2007-000308 | R-CHIP      | 10ohm,5%,1/8W,TP,2012            | 1    | S.A    |        |
| R603    | 2007-000468 | R-CHIP      | 1Kohm,5%,1/8W,TP,2012            | 1    | S.A    |        |
| ER11    | 2007-000643 | R-CHIP      | 270ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| ER12    | 2007-000643 | R-CHIP      | 270ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| DR08    | 2007-000691 | R-CHIP      | 3.3Mohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR28    | 2007-000691 | R-CHIP      | 3.3Mohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R911    | 2007-000729 | R-CHIP      | 300ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| DR15    | 2007-000869 | R-CHIP      | 4.7Kohm,1%,1/10W,TP,1608         | 1    | S.A    |        |
| R107    | 2007-001044 | R-CHIP      | 56ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| R111    | 2007-001044 | R-CHIP      | 56ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| R112    | 2007-001044 | R-CHIP      | 56ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER01    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER04    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER10    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER13    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER16    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER19    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER20    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER21    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER22    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER23    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER27    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER28    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER35    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER36    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER37    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER39    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER40    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER43    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER44    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| ER45    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR04    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR05    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR06    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR09    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR10    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR11    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR23    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR24    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| SR25    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | 1    | S.A    |        |
| XR05    | 2007-007947 | R-CHIP      | 36ohm,1%,1/10W,TP,1608           | 1    | S.A    |        |
| XR06    | 2007-007947 | R-CHIP      | 36ohm,1%,1/10W,TP,1608           | 1    | S.A    |        |
| XR10    | 2007-007947 | R-CHIP      | 36ohm,1%,1/10W,TP,1608           | 1    | S.A    |        |
| AR16    | 2011-000002 | R-NET       | 22OHM,5%,1/16W,L,CHIP,8P,TP,3216 | 1    | S.A    |        |







| Loc.No. | Code No.    | Description | Specification               | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|-----------------------------|------|--------|--------|
| C906    | 2203-000357 | C-CER,CHIP  | 0.15NF,5%,50V,C0G,TP,1608   | 1    | S.A    |        |
| AC10    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C659    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C660    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C902    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C905    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C910    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC01    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC02    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC40    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC07    | 2203-000491 | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,- | 1    | S.A    |        |
| DC54    | 2203-000491 | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,- | 1    | S.A    |        |
| DC55    | 2203-000491 | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,- | 1    | S.A    |        |
| DC32    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| DC45    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC08    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC09    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC10    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC13    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC14    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC15    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC74    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC34    | 2203-000626 | C-CER,CHIP  | 0.022nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC35    | 2203-000626 | C-CER,CHIP  | 0.022nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| DC56    | 2203-000659 | C-CER,CHIP  | 0.27nF,5%,50V,C0G,TP,1608   | 1    | S.A    |        |
| C113    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C114    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC29    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC30    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC31    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC70    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC71    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC72    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| ED66    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C615    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C616    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C619    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C621    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C625    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C628    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C629    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C630    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C631    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C634    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C663    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C667    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C668    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C669    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C673    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C674    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC25    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC26    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC28    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC58    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC62    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC63    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C701    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C702    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C703    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C704    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C705    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C706    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| DC34    | 2203-000888 | C-CER,CHIP  | 4.7nF,10%,50V,X7R,TP,1608   | 1    | S.A    |        |
| AC06    | 2203-000972 | C-CER,CHIP  | 47nF,10%,16V,X7R,TP,1608    | 1    | S.A    |        |
| AC09    | 2203-000972 | C-CER,CHIP  | 47nF,10%,16V,X7R,TP,1608    | 1    | S.A    |        |
| AC13    | 2203-000972 | C-CER,CHIP  | 47nF,10%,16V,X7R,TP,1608    | 1    | S.A    |        |
| DC35    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-  | 1    | S.A    |        |
| EC17    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-  | 1    | S.A    |        |

Electrical Part List

| Loc.No. | Code No.    | Description | Specification                   | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|---------------------------------|------|--------|--------|
| EC18    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC19    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC20    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC21    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC22    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC23    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| DC63    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC41    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC42    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC45    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC46    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| DC36    | 2203-001034 | C-CER,CHIP  | 5.6nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C638    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C643    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C670    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C671    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C672    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C903    | 2203-001103 | C-CER,CHIP  | 6.8nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| AC24    | 2203-001211 | C-CER,CHIP  | 8.2nF,10%,50V,X7R,TP,1608       | 1    | S.A    |        |
| C624    | 2203-001607 | C-CER,CHIP  | 0.22nF,5%,50V,NP0,-,1608        | 1    | S.A    |        |
| CM01    | 2203-001628 | C-CER,CHIP  | 0.03nF,5%,50V,NP0,1608          | 1    | S.A    |        |
| CM02    | 2203-001628 | C-CER,CHIP  | 0.03nF,5%,50V,NP0,1608          | 1    | S.A    |        |
| C601    | 2203-001656 | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608       | 1    | S.A    |        |
| SC28    | 2203-001656 | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608       | 1    | S.A    |        |
| DC08    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC20    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC22    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC31    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC33    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC07    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC08    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC09    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC10    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC11    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC12    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC13    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC23    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC24    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC25    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC48    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC49    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| C908    | 2203-005005 | C-CER,CHIP  | 100nF,10%,16V,X7R,1608          | 1    | S.A    |        |
| C101    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C103    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C105    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C107    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C112    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C605    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C627    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C637    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C647    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| AC25    | 2203-005342 | C-CER,CHIP  | 82nF,10%,16V,X7R,TP,1608        | 1    | S.A    |        |
| SC17    | 2203-005809 | C-CER,CHIP  | 1000nF,10%,16V,X7R,TP,2012(T1   | 1    | S.A    |        |
| XC42    | 2402-001097 | C-AL,SMD    | 0.1UF,20%,50V,WT,TP,4.3X4.3X5.2 | 1    | S.A    |        |
| XC43    | 2402-001097 | C-AL,SMD    | 0.1UF,20%,50V,WT,TP,4.3X4.3X5.2 | 1    | S.A    |        |
| AC02    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| AC04    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C102    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C626    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C656    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C907    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| CM12    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| CM24    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| CM29    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC04    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC12    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC13    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC24    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |



| Loc.No. | Code No.    | Description | Specification                   | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|---------------------------------|------|--------|--------|
| DC30    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC43    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| NC04    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC29    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC30    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC31    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC32    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC33    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC34    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC38    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| XC39    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC49    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM    | 1    | S.A    |        |
| EC47    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM    | 1    | S.A    |        |
| SC14    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM    | 1    | S.A    |        |
| SC21    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM    | 1    | S.A    |        |
| SC27    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM    | 1    | S.A    |        |
| SC43    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM    | 1    | S.A    |        |
| EC42    | 2402-001174 | C-AL,SMD    | 220UF,20%,10V,WT,TP,8X6.3MM     | 1    | S.A    |        |
| C603    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| C622    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| C623    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| C636    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| C641    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| C655    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| C904    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| CM14    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| CM21    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| DC39    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| DC50    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| DC52    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| EC50    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| EC51    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| EC57    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| EC60    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| SC30    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| SC32    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| SC34    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| SC36    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| SC38    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| SC40    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| XC37    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| XC47    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8M | 1    | S.A    |        |
| C104    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| C108    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| C117    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| C118    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| C119    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| CM26    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| EC48    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| EC49    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| NC02    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| SC19    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| XC35    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1 | 1    | S.A    |        |
| C602    | 2402-001222 | C-AL,SMD    | 3.3UF,20%,50V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C611    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C612    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C613    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C614    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C617    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C618    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C620    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C632    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C633    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C635    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C640    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C651    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C653    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C654    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |

Electrical Part List

| Loc.No. | Code No.    | Description    | Specification                   | Q'ty | SA/SNA | Remark |
|---------|-------------|----------------|---------------------------------|------|--------|--------|
| C658    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C664    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C665    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C912    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| DC06    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| DC23    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C604    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| C609    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| C610    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| CM23    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| DC09    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| C106    | 2402-001254 | C-AL,SMD       | 10uF,20%,50V,WT,TP,6.3x5.2mm    | 1    | S.A    |        |
| C111    | 2402-001254 | C-AL,SMD       | 10uF,20%,50V,WT,TP,6.3x5.2mm    | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-001070 | INDUCTOR-SMD   | 100uH,10%,4532                  | 1    | S.A    |        |
| T0052   | 2703-001070 | INDUCTOR-SMD   | 100uH,10%,4532                  | 1    | S.A    |        |
| T0052   | 2703-001245 | INDUCTOR-SMD   | 8.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| SX01    | 2801-001473 | CRYSTAL-SMD    | 4MHz,50ppm,28-AAN,18pF,150oh    | 1    | S.A    |        |
| EX01    | 2801-004004 | CRYSTAL-SMD    | 20.25MHz,20ppm,28-AAN,13pF,2    | 1    | S.A    |        |
| XM01    | 2801-004117 | CRYSTAL-SMD    | 6MHZ,30PPM,28-ABX,20PF,150OH    | 1    | S.A    |        |
| X601    | 2801-004300 | CRYSTAL-SMD    | 18.432MHz,30ppm,28-ABX,13pF,    | 1    | S.A    |        |
| F103    | 2901-000226 | FILTER-EMI SMD | 25V,0.3A,-,100pF,3.2x1.25       | 1    | S.A    |        |
| T0568   | 3301-001082 | BEAD-SMD       | 60ohm,3225,1500mA,TP,43ohm/40MH | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD       | 60ohm,3225,1500mA,TP,43ohm/40MH | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD       | 60ohm,3225,1500mA,TP,43ohm/40MH | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD       | 60ohm,3225,1500mA,TP,43ohm/40MH | 1    | S.N.A  |        |

| Loc.No. | Code No.    | Description | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|----------------------------------|------|--------|--------|
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,,0.1ohm     | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,,0.1ohm     | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,,0.1ohm     | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,,0.1ohm     | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,,0.1ohm     | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,,0.1ohm     | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,,0.1ohm     | 1    | S.N.A  |        |
| IC125   | AA13-00113A | IC ASIC     | SDP41,DNIE lite,208,1.8,0to +70, | 1    | S.A    |        |
| T0077   | AA41-01116C | PCB MAIN    | WS32Z30,FR-4,4,C,1.6T,245*180,S  | 1    | S.N.A  |        |
| M0018   | AA97-15944A | ASSY MICOM  | S62A,ST M27W201,T_OZPAS_1000,    | 1    | S.A    |        |
| IC902   | 1102-001133 | IC-EPROM    | M27W201-80B6,256KX8BIT,DIP,32P,  | 1    | S.A    |        |

### ASSY FIXING

|         |             |                             |                             |      |       |  |
|---------|-------------|-----------------------------|-----------------------------|------|-------|--|
| T0892   | AA91-09094C | ASSY FIXING                 | WS32Z30HEAXBWT,S62A,OZ      | 1    | S.N.A |  |
| M0081   | 6003-001023 | SCREW-TAPTITE               | PWH,+B,M3,L10,ZPC(YEL),SW   | 2    | S.N.A |  |
| M0081   | 6003-001023 | SCREW-TAPTITE               | PWH,+B,M3,L10,ZPC(YEL),SW   | 2    | S.N.A |  |
| M0081   | 6003-001023 | SCREW-TAPTITE               | PWH,+B,M3,L10,ZPC(YEL),SW   | 3    | S.N.A |  |
| M0081   | 6003-001026 | SCREW-TAPTITE               | RH,+B,M4,L15,ZPC(BLK),SWR   | 4    | S.N.A |  |
| M0081   | 6003-001026 | SCREW-TAPTITE               | RH,+B,M4,L15,ZPC(BLK),SWR   | 2    | S.N.A |  |
| T0070   | AA61-01411A | HOLDER-CHASSIS              | 32Z30,HIPS VO,G4309         | 1    | S.N.A |  |
| T0010   | AA61-01412A | HOLDER-SUB PCB              | 32Z30,HIPS VO,G4309         | 1    | S.N.A |  |
| T0130   | AA96-02974A | ASSY COVER P-TERMINAL BOARD | 32Z30,CIS,HI                | 1    | S.N.A |  |
| T0071   | AA64-04193A | INLAY-TERMINAL              | 32Z30(PAL),PS,T0.5,SHEET    | 1    | S.N.A |  |
|         | AA65-00051A | TERMINAL-BOARD              | 32Z30(PAL),HIPS VO,BLK      | 1    | S.N.A |  |
| CIS1    | AA65-00029A | CLAMPER CORE-WIRE           | PJTV,NYLON66,OD24,DONG      | 2    | S.N.A |  |
| CIS1    | AA65-30110A | CLAMPER CORE-WIRE           | ALL MODEL,NYLON 66,V2,      | 1    | S.N.A |  |
| △ T0066 | AA96-20109C | ASSY POWER CORD             | -,CP2/NO(4.0),H/C300,KKP    | 1    | S.A   |  |
|         | 3811-001609 | WIRE-PVC CU                 | BCWA,300V,ROLL,-,#22,BLK    | 0.15 | S.N.A |  |
| T0268   | AA39-10006X | CBF-POWER CORD              | -,KKP419C,KLCE-2F,2.286MT   | 1    | S.A   |  |
| T0010   | AA61-20284A | HOLDER                      | P-CORD,PP,-,-,BLK,VO,KE-002 | 1    | S.N.A |  |

### ASSY P/MATERIAL

|       |             |                 |                                   |       |       |  |
|-------|-------------|-----------------|-----------------------------------|-------|-------|--|
| M0113 | AA92-10866B | ASSY P/MATERIAL | 32Z30                             | 1     | S.N.A |  |
| T0376 | 6902-000001 | BAG AIR         | LDPE,T0.2,L1800,W1000,TRP,,LDPE   | 0.015 | S.N.A |  |
| T0524 | 6902-000007 | BAG PE          | HDPE/NITRON/HDPE,T0.015/T0.5/T0.0 | 1     | S.N.A |  |
| T0376 | 6902-000061 | BAG AIR         | LDPE,T0.2,L1000,W500,TRP,,,       | 0.08  | S.N.A |  |
| T0214 | AA60-40006A | PIN-STAPLE      | AUTO,33X17.8X2.4,H18,33X17.8X     | 12    | S.N.A |  |
| T0172 | AA69-02609A | BAND-PP         | W18,CLEA,1G                       | 5     | S.N.A |  |

### ASSY ACCESSORY

|       |             |                             |                                   |   |       |  |
|-------|-------------|-----------------------------|-----------------------------------|---|-------|--|
| M0045 | AA92-10943C | ASSY ACCESSORY              | WS32Z30HEAXBWT,S62A,OZ            | 1 | S.N.A |  |
| T0524 | 6902-000009 | BAG PE                      | HDPE,T0.03,L400,W240,TRP,8.2,PE M | 1 | S.N.A |  |
| T0074 | AA59-00357D | REMOCON                     | NEGOTIATOR,TM76B,200*54*30,S3C18  | 1 | S.A   |  |
| T0119 | AA09-00371A | IC MICOM                    | SZTM-839C R-52MX,28PIN,16KBYTE,   | 1 | S.A   |  |
| T0122 | 2802-000194 | RESONATOR-CERAMIC           | 8MHz,1.0%,TP,8.5x4.5x5            | 1 | S.A   |  |
|       | AA68-00816B | CARD WARRANTY-05            | ,RUSSINA,2,W/P 120G,BOT           | 1 | S.N.A |  |
| T0269 | AA68-01120A | MANUAL SERVICE              | -,CIS,A4,6PAGE(FOLD),W/           | 1 | S.N.A |  |
|       | AA68-01402A | MANUAL-GOOD WILL LETTER     | ,CIS,B5,1PAGE,A/                  | 1 | S.N.A |  |
| M0156 | AA68-03562A | MANUAL USERS-01             | Z30,SAMSUNG,Rus,Russia,W          | 1 | S.N.A |  |
|       | AA68-03576A | MANUAL-00 REGISTRATION CARD | BWT,RU,RUSSI                      | 1 | S.N.A |  |
| T0100 | AA68-03278B | MANUAL-WARRANTY CARD        | CIS All model,SAMSU               | 1 | S.N.A |  |
| 0     | AA68-03242E | MANUAL-SAFETY GUIDE         | All Model,SAMSUNG,8L              | 1 | S.N.A |  |

| Loc.No.                 | Code No.    | Description          | Specification                   | Q'ty | SA/SNA | Remark |
|-------------------------|-------------|----------------------|---------------------------------|------|--------|--------|
| <b>ASSY CPT</b>         |             |                      |                                 |      |        |        |
| T0521                   | AA91-09464B | ASSY CPT             | 32,W76QFV891X002(P),+380mG,SDI  | 1    | S.N.A  |        |
| T0090                   | AA27-00345A | COIL DEGAUSSING-TILT | 32,51.0mH,300Turns,             | 1    | S.A    |        |
| CIS1                    | AA65-00056A | CLAMPER CORE-WIRE    | 32Z30,NYLON-66,V0,NTR           | 4    | S.N.A  |        |
| T0527                   | AA65-30017A | CLAMPER CORE-D,COIL  | -,NYLON-66,V0,-,NTR,            | 5    | S.N.A  |        |
| T0603                   | AA96-02967A | ASSY TBC WIRE P      | K62A,32,NTSC,4P                 | 1    | S.N.A  |        |
| △T0063                  | AA03-00437A | CRT COLOR            | W76QFV891X102,+380,0.252,13.9,  | 1    | S.A    |        |
| T0089                   | AA27-00343B | COIL DEGAUSSING      | CORE(K62A),23.40mH,70TS,        | 1    | S.A    |        |
| <b>ASSY COVER FRONT</b> |             |                      |                                 |      |        |        |
| M0001                   | AA90-05299X | ASSY COVER FRONT     | WS32Z30HEAXBWT                  | 1    | S.N.A  |        |
| M0081                   | 6003-001026 | SCREW-TAPTITE        | RH,+B,M4,L15,ZPC(BLK),SWR       | 10   | S.N.A  |        |
| M0081                   | 6003-001026 | SCREW-TAPTITE        | RH,+B,M4,L15,ZPC(BLK),SWR       | 2    | S.N.A  |        |
| M0081                   | 6003-001026 | SCREW-TAPTITE        | RH,+B,M4,L15,ZPC(BLK),SWR       | 2    | S.N.A  |        |
| M0081                   | 6003-001268 | SCREW-TAPTITE        | TH,+B,M4,L12,ZPC(YEL),SWR       | 2    | S.N.A  |        |
| M0081                   | 6003-001268 | SCREW-TAPTITE        | TH,+B,M4,L12,ZPC(YEL),SWR       | 2    | S.N.A  |        |
| M0081                   | 6003-001268 | SCREW-TAPTITE        | TH,+B,M4,L12,ZPC(YEL),SWR       | 2    | S.N.A  |        |
| M0081                   | AA60-10002A | SCREW-TAPTITE        | -,ZPC(YEL),M4,L12,RH,+,-,-      | 4    | S.N.A  |        |
| CRT+C/F                 | AA60-10050V | BOLT-HEX             | -,SWRCH18A,M6,L30,HH,+WC,-,Z    | 4    | S.N.A  |        |
| T0609                   | AA63-60004Z | SPACER-GUM,CRT       | ALL MODEL,NTR RUBBER,-,-,       | 4    | S.N.A  |        |
| T0175                   | AA96-02859A | ASSY SPEAKER P       | 8ohm,Core,Oz,10W,800/500m       | 1    | S.A    |        |
| T0382                   | BP61-00495C | HOLDER-CARE          | PJT,ACRYL-FOAM,T0.25,W30.0mm    | 0.32 | S.N.A  |        |
| T0003                   | AA96-02867L | ASSY COVER P-FRONT   | 32Z30,CIS,HIPS HB,GR5           | 1    | S.A    |        |
| M0081                   | 6003-001019 | SCREW-TAPTITE        | RH,+B,M4,L12,ZPC(BLK),SWR       | 12   | S.N.A  |        |
| M0081                   | 6003-001019 | SCREW-TAPTITE        | RH,+B,M4,L12,ZPC(BLK),SWR       | 1    | S.N.A  |        |
| CIS7                    | AA61-60003J | SPRING ETC-CS        | -,SUS304,-,-,OD6,N7,OD6,-,      | 1    | S.N.A  |        |
| M0112                   | AA63-00958D | COVER-FRONT          | 32Z30,HIPS,HB,GR503,SV012P+B    | 1    | S.N.A  |        |
| T0750                   | AA63-00962D | COVER-MASK           | 32Z30,HIPS,HB,BLK,BKM-1326(R1   | 1    | S.N.A  |        |
| T0057                   | AA64-01062B | BADGE-BRAND          | ALL,AL,T1.5,10.6,L65,BLK.SIL    | 1    | S.A    |        |
| T0299                   | AA64-04191A | WINDOW-RMC LED       | 32Z30,PC CLEAR                  | 1    | S.N.A  |        |
| T0382                   | BP61-00509C | HOLDER-CARE          | PJT,ACRYL-FOAM,T0.25,W20.0mm    | 0.28 | S.N.A  |        |
| T0023                   | BP64-00326A | KNOB POWER           | 43T9,ABS,HB,BLK,SVM3012         | 1    | S.N.A  |        |
| CIS3                    | BP64-00331B | DECORATION-POWER     | PJTV,ABS,HB,GR503,SVM30         | 1    | S.N.A  |        |
| T0569                   | AA61-01433A | SUPPORT-CRT          | 32Z30(SLIM),HIPS,T2.0,GR503     | 2    | S.A    |        |
| <b>ASSY COVER REAR</b>  |             |                      |                                 |      |        |        |
| M0002                   | AA90-05300B | ASSY COVER REAR      | WS32Z308PAXXEU                  | 1    | S.N.A  |        |
| T0069                   | AA60-00091J | SPACER-FELT          | -,FELT,330X10,-,-,BLK,T0.5,-    | 3    | S.N.A  |        |
| M0006                   | AA63-00959B | COVER-REAR           | 32Z30(HQ),HIPS,FV2,BK500        | 1    | S.A    |        |
| T0578                   | AA64-04200F | INLAY AV             | 32Z30,PS,T0.3,SHEET,BLK,SI411DG | 1    | S.N.A  |        |
| T0522                   | AA65-30008A | CLAMPER CORE-CORD    | -,PE,HB,-,BLK,-                 | 1    | S.N.A  |        |

## 5-2 WS32Z30HEAXSAP

| Loc.No.             | Code No.           | Description                  | Specification                    | Q'ty     | SA/SNA     | Remark |
|---------------------|--------------------|------------------------------|----------------------------------|----------|------------|--------|
| <b>ASSY CHASSIS</b> |                    |                              |                                  |          |            |        |
| M0017               | AA91-09324A        | ASSY CHASSIS                 | WS32Z30HEAXSAP,S62A,OZ           | 1        | S.N.A      |        |
| <b>T0098</b>        | <b>AA94-15114A</b> | <b>ASSY PCB MISC-CONTROL</b> | <b>CT-32Z30HD,CORE</b>           | <b>1</b> | <b>S.A</b> |        |
| T0245               | 0202-001366        | SOLDER-WIRE FLUX             | -,RS60S,D1.2,63Sn/37Pb,          | 0.01     | S.N.A      |        |
| M0081               | 6003-001023        | SCREW-TAPTITE                | PWH,+B,M3,L10,ZPC(YEL),SW        | 2        | S.N.A      |        |
| M2893               | AA39-00387C        | LEAD CONNECTOR               | K62A(CORE),UL1007#26,4P,7        | 1        | S.A        |        |
| T0022               | AA64-01201N        | KNOB CONTROL                 | 32Z30,ABS,HB,G4309,BKM1326       | 1        | S.N.A      |        |
| T0057               | AA97-15792A        | ASSY AUTO-CONTROL            | CT-32Z30HD,CORE                  | 1        | S.N.A      |        |
| DZY03               | 0403-000508        | DIODE-ZENER                  | MTZJ5.6B,5.45-5.73V,500MW,DO     | 1        | S.A        |        |
| RY03                | 2001-000007        | R-CARBON                     | 3KOHM,5%,1/8W,AA,TP,1.8X3.2MM    | 1        | S.A        |        |
| RY05                | 2001-000009        | R-CARBON                     | 20KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| RY02                | 2001-000577        | R-CARBON                     | 2KOHM,5%,1/8W,AA,TP,1.8X3.2MM    | 1        | S.A        |        |
| RY04                | 2001-000878        | R-CARBON                     | 6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| RY06                | 2001-000947        | R-CARBON                     | 7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| DZY04               | 2202-000796        | C-CERAMIC,MLC-AXIAL          | 1NF,10%,50V,Y5P,TP,3             | 1        | S.A        |        |
| LY01                | 2701-000114        | INDUCTOR-AXIAL               | 10UH,10%,2534                    | 1        | S.A        |        |
| LY02                | 2701-000114        | INDUCTOR-AXIAL               | 10UH,10%,2534                    | 1        | S.A        |        |
| SWY07               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY08               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY09               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY10               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY11               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| SWY12               | 3404-000243        | SWITCH-TACT                  | 15V,20mA,160gf+-50gf,6x3.4mm     | 1        | S.A        |        |
| PCB                 | AA41-00619A        | PCB-CONTROL(Z7)              | CT-29HM8,FR-1,1L,A,1.6T,         | 1        | S.N.A      |        |
| CN906               | 3711-000058        | CONNECTOR-HEADER             | BOX,4P,1R,2.5mm,ANGLE,S          | 1        | S.A        |        |
| <b>T0120</b>        | <b>AA94-15147E</b> | <b>ASSY PCB POWER</b>        | <b>32,S62A,OZ,E/ASIA</b>         | <b>1</b> | <b>S.A</b> |        |
| T0245               | 0202-001366        | SOLDER-WIRE FLUX             | -,RS60S,D1.2,63Sn/37Pb,          | 0.4      | S.N.A      |        |
| D809                | 0402-000586        | DIODE-RECTIFIER              | RK49,90V,3.5A,DO-201AD           | 1        | S.A        |        |
| △ PC802S            | 0604-001032        | PHOTO-COUPLER                | TR,170-260%,300mW,DIP-4,ST       | 1        | S.A        |        |
| △ PC801S            | 0604-001038        | PHOTO-COUPLER                | TR,130-260%,200mW,DIP-4,ST       | 1        | S.A        |        |
| T0087               | 1203-001006        | IC-POSI.FIXED REG.           | 78R05,TO-220F,4P,-,PL            | 1        | S.A        |        |
| T0086               | 1203-002177        | IC-PWM CONTROLLER            | VIPER12ADIP,DIP,8P,300           | 1        | S.A        |        |
| P803T               | 1404-001154        | THERMISTOR-PTC               | 4.5OHM,+30%/-20%,220V,270        | 1        | S.A        |        |
| T0900               | 1404-001195        | THERMISTOR-NTC               | 5.1ohm,15%,2900,27mW/C,BK        | 1        | S.A        |        |
| △ CY802S            | 2201-000963        | C-CERAMIC,DISC               | 1NF,20%,400V,Y5U,TP,9.5X6        | 1        | S.A        |        |
| △ CY801S            | 2201-000987        | C-CERAMIC,DISC               | 2.2NF,20%,400V,Y5U,BK,12.        | 1        | S.A        |        |
| C806                | 2306-000112        | C-FILM,LEAD-PPF              | 100nF,20%,250V,BK,-,15mm         | 1        | S.A        |        |
| △ CX801S            | 2306-000318        | C-FILM,LEAD-PPF              | 220NF,20%,250V,BK,-,22.5         | 1        | S.A        |        |
| △ CX802S            | 2306-000321        | C-FILM,LEAD-PPF              | 470NF,20%,275V,BK,31X11X         | 1        | S.A        |        |
| C802                | 2401-002287        | C-AL                         | 470uF,20%,200V,WT,BK,25x40,10    | 1        | S.A        |        |
| C803                | 2401-003031        | C-AL                         | 470uF,20%,450V,GP,BK,35x45mm,1   | 1        | S.A        |        |
| △ RL801S            | 3501-001053        | RELAY-POWER                  | 5VDC,530MW,10000MA,1FORMA,15     | 1        | S.A        |        |
| FD802               | 3601-000414        | FUSE-CARTRIDGE               | 250V,5A,SLOW-BLOW,GLASS,5        | 1        | S.A        |        |
| CN906               | 3711-003204        | CONNECTOR-HEADER             | BOX,24P,2R,2mm,STRAIGHT          | 1        | S.A        |        |
| CN906               | 3711-003241        | CONNECTOR-HEADER             | BOX,14P,1R,2.5MM,STRAIG          | 1        | S.A        |        |
| △ T801S             | AA26-00226C        | TRANS SWITCHING              | 53B135-**,CORE,80V-280V,         | 1        | S.A        |        |
| T0010               | AA27-10001C        | COIL CHOKE                   | -,100uH,K,-,5.OA,ST,700UH-K(R    | 1        | S.A        |        |
| T0010               | AA27-10002L        | COIL CHOKE                   | -,24uH,K,-,2A,-,24UH-K,10x10m    | 1        | S.A        |        |
| T0010               | AA27-10002L        | COIL CHOKE                   | -,24uH,K,-,2A,-,24UH-K,10x10m    | 1        | S.A        |        |
| T0010               | AA27-10002L        | COIL CHOKE                   | -,24uH,K,-,2A,-,24UH-K,10x10m    | 1        | S.A        |        |
| M2893               | AA39-00394A        | LEAD CONNECTOR               | CT-32Z30HD,UL1007#26,24P,        | 1        | S.A        |        |
| T0245               | AA39-20010C        | LEAD CONNECTOR-ASSY          | ,1P,600,YFH800-01,S,             | 1        | S.A        |        |
| CN802               | AA60-40012G        | PIN-GT                       | 3P,2.36PI,10/5mm,NYLON66,LOCKING | 1        | S.N.A      |        |
| △ IC801S            | AA96-50371R        | ASSY HEAT SINK P             | AA62-30181H,SCREW,STR-X          | 1        | S.N.A      |        |
| CIS1                | 0205-001154        | OIL-SILICON                  | G746,-,-                         | 0.2      | S.N.A      |        |
| M0081               | 6003-000333        | SCREW-TAPTITE                | RH,+Z,MS3,L10,ZPC(YEL),SW        | 1        | S.N.A      |        |
| T0066               | AA62-30181H        | HEAT SINK-ES                 | -,AL6063 EXTR.,2.WHT,50MM,-      | 1        | S.N.A      |        |
| IC063               | AA13-00115A        | IC HYBRID                    | STR-X6759F,CORE,7,-20--+125,DIP  | 1        | S.A        |        |
|                     | AA97-15826D        | ASSY AUTO-POWER              | 32,S62A,OZ,E/ASIA                | 1        | S.N.A      |        |
| DS804               | 0401-000005        | DIODE-SWITCHING              | 1N4148,75V,150MA,DO-35,T         | 1        | S.A        |        |
| DS806               | 0401-000005        | DIODE-SWITCHING              | 1N4148,75V,150MA,DO-35,T         | 1        | S.A        |        |
| DS808               | 0401-000005        | DIODE-SWITCHING              | 1N4148,75V,150MA,DO-35,T         | 1        | S.A        |        |



## Electrical Part List

| Loc.No. | Code No.    | Description         | Specification                   | Q'ty | SA/SNA | Remark |
|---------|-------------|---------------------|---------------------------------|------|--------|--------|
| DZ807   | 0401-000005 | DIODE-SWITCHING     | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| D802    | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| D803    | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| D807    | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| DS803   | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| DS805   | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| DS807   | 0401-000006 | DIODE-SWITCHING     | BAV21,250V,200MA,DO-35,T        | 1    | S.A    |        |
| D808    | 0402-000132 | DIODE-RECTIFIER     | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D804    | 0402-000546 | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1    | S.A    |        |
| D805    | 0402-000546 | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1    | S.A    |        |
| DZ803   | 0403-000700 | DIODE-ZENER         | TZP33A,5%,1000MW,DO-41,TP       | 1    | S.A    |        |
| DZS806  | 0403-000704 | DIODE-ZENER         | TZP7.5B,7.5-8.4V,1000MW,DO-4    | 1    | S.A    |        |
| DZ802   | 0403-000718 | DIODE-ZENER         | MTZJ6.8B,6.52-6.79V,500MW,DO    | 1    | S.A    |        |
| DZ804   | 0403-000720 | DIODE-ZENER         | MTZJ9.1B,8.57-9.01V,500MW,DO    | 1    | S.A    |        |
| DZ805   | 0403-001320 | DIODE-ZENER         | MTZJ6.2C,6.16-6.4V,500MW,DO-    | 1    | S.A    |        |
| DZ806   | 0403-001321 | DIODE-ZENER         | MTZJ6.8C,6.7-6.97V,500MW,DO-    | 1    | S.A    |        |
| DZS807  | 0403-001325 | DIODE-ZENER         | MTZJ15C,14.42-15.02V,500MW,D    | 1    | S.A    |        |
| DZS808  | 0403-001327 | DIODE-ZENER         | MTZJ18A,16.22-17.06V,500MW,D    | 1    | S.A    |        |
| DZS804  | 0403-001328 | DIODE-ZENER         | MTZJ22A,20.15-21.2V,500MW,DO    | 1    | S.A    |        |
| DZS805  | 0403-001330 | DIODE-ZENER         | MTZJ30A,26.99-28.39V,500MW,D    | 1    | S.A    |        |
| DS802   | 0404-001056 | DIODE-SCHOTTKY      | RK16,60V,1500MA,DO-204AC,       | 1    | S.A    |        |
| DZS803  | 0406-001007 | DIODE-TVS           | P6KE180A,171/180/189V,600W,CAS  | 1    | S.A    |        |
| DZS802  | 0406-001062 | DIODE-TVS           | P6KE200A,190/200/210V,600W,CAS  | 1    | S.A    |        |
| DZS801  | 0406-001106 | DIODE-TVS           | P6KE300A,285-/315V,600W,DO-20   | 1    | S.A    |        |
| QS801   | 0501-000010 | TR-SMALL SIGNAL     | KSC1008,NPN,800mW,TO-92,        | 1    | S.A    |        |
| Q801    | 0501-000369 | TR-SMALL SIGNAL     | KSC2331-Y,NPN,1000mW,TO-        | 1    | S.A    |        |
| Q802    | 0501-000389 | TR-SMALL SIGNAL     | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| Q803    | 0501-000389 | TR-SMALL SIGNAL     | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| Q804    | 0501-000389 | TR-SMALL SIGNAL     | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| IC012   | 1203-001217 | IC-POSI.ADJUST REG. | 431,TO-92,3P,4.58MIL            | 1    | S.A    |        |
| VP801S  | 1405-000187 | VARISTOR            | 750V,1250A,12.5x7mm,TP          | 1    | S.A    |        |
| VX801S  | 1405-000187 | VARISTOR            | 750V,1250A,12.5x7mm,TP          | 1    | S.A    |        |
| R807    | 2001-000037 | R-CARBON(S)         | 330OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RS808   | 2001-000066 | R-CARBON(S)         | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R802    | 2001-000076 | R-CARBON            | 47KOHM,5%,1/4W,AA,TP,2.4X6.4MM  | 1    | S.A    |        |
| RS806   | 2001-000085 | R-CARBON(S)         | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R801    | 2001-000273 | R-CARBON            | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| R821    | 2001-000273 | R-CARBON            | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| R823    | 2001-000290 | R-CARBON            | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R826    | 2001-000290 | R-CARBON            | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R814    | 2001-000429 | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| R825    | 2001-000429 | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| R829    | 2001-000429 | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| R812    | 2001-000522 | R-CARBON            | 22KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R828    | 2001-000734 | R-CARBON            | 4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| R822    | 2001-000780 | R-CARBON            | 470OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R824    | 2001-000780 | R-CARBON            | 470OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RS805   | 2001-001077 | R-CARBON(S)         | 150OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R805    | 2001-001088 | R-CARBON(S)         | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| R817    | 2001-001088 | R-CARBON(S)         | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| R810    | 2001-001097 | R-CARBON(S)         | 2.4KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R815    | 2001-001131 | R-CARBON(S)         | 33KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R808    | 2001-001150 | R-CARBON(S)         | 470KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R809    | 2001-001150 | R-CARBON(S)         | 470KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R820    | 2001-001165 | R-CARBON(S)         | 56OHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| R827    | 2001-001185 | R-CARBON(S)         | 750OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RX801S  | 2002-001010 | R-COMPOSITION       | 1.8Mohm,5%,1/2W,AA,TP,3.7x      | 1    | S.A    |        |
| RY801S  | 2002-001012 | R-COMPOSITION       | 8.2Mohm,5%,1/2W,AA,TP,3.7x      | 1    | S.A    |        |
| RS801   | 2003-000537 | R-METAL OXIDE(S)    | 1Kohm,5%,1W,AF,TP,3.3x9         | 1    | S.A    |        |
| R813    | 2004-001099 | R-METAL             | 56Kohm,1%,1/4W,AA,TP,2.4x6.4mm  | 1    | S.A    |        |
| R816    | 2004-001983 | R-METAL(S)          | 2.49Kohm,1%,1/2W,AA,TP,2.4x6.   | 1    | S.A    |        |
| RS803   | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5     | 1    | S.A    |        |
| RS804   | 2008-000206 | R-FUSIBLE(S)        | 1ohm,5%,1/2W,AF,TP,2.5x6.5m     | 1    | S.A    |        |
| C819    | 2201-000374 | C-CERAMIC,DISC      | 0.22NF,5%,50V,C0G,TP,10.5       | 1    | S.A    |        |
| C832    | 2201-000406 | C-CERAMIC,DISC      | 0.27NF,10%,2KV,Y5P,TP,6.3       | 1    | S.A    |        |
| C813    | 2201-000556 | C-CERAMIC,DISC      | 0.47NF,10%,500V,Y5P,TP,5.       | 1    | S.A    |        |
| CS801   | 2201-000556 | C-CERAMIC,DISC      | 0.47NF,10%,500V,Y5P,TP,5.       | 1    | S.A    |        |
| CS808   | 2201-000556 | C-CERAMIC,DISC      | 0.47NF,10%,500V,Y5P,TP,5.       | 1    | S.A    |        |

| Loc.No.  | Code No.    | Description         | Specification                    | Q'ty | SA/SNA | Remark |
|----------|-------------|---------------------|----------------------------------|------|--------|--------|
| C816     | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.        | 1    | S.A    |        |
| C822     | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.        | 1    | S.A    |        |
| C809     | 2201-000863 | C-CERAMIC,DISC      | 0.68NF,10%,50V,Y5P,TP,5X3        | 1    | S.A    |        |
| C829     | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x         | 1    | S.A    |        |
| C820     | 2301-000192 | C-FILM,LEAD-PEF     | 1nF,5%,50V,TP,5.3x10mm,5         | 1    | S.A    |        |
| C821     | 2301-000356 | C-FILM,LEAD-PEF     | 47nF,5%,50V,TP,7.5x4.0x6         | 1    | S.A    |        |
| CS803    | 2301-000356 | C-FILM,LEAD-PEF     | 47nF,5%,50V,TP,7.5x4.0x6         | 1    | S.A    |        |
| C807     | 2301-001435 | C-FILM,LEAD-PPF     | 1.5nF,5%,1.2kV,TP,15x8x1         | 1    | S.A    |        |
| C817     | 2305-000289 | C-FILM,LEAD-PEF     | 220nF,5%,63V,TP,-,5mm            | 1    | S.A    |        |
| C830     | 2305-000411 | C-FILM,LEAD-PEF     | 470nF,5%,50V,TP,7.3x4.8x         | 1    | S.A    |        |
| CS805    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C810     | 2401-000142 | C-AL                | 1000uF,20%,16V,WT,TP,10x20,5     | 1    | S.A    |        |
| C825     | 2401-000142 | C-AL                | 1000uF,20%,16V,WT,TP,10x20,5     | 1    | S.A    |        |
| CS804    | 2401-000493 | C-AL                | 10uF,20%,50V,LZ,TP,5x11mm,5mm    | 1    | S.A    |        |
| C812     | 2401-000569 | C-AL                | 1uF,20%,250V,GP,TP,6.3x11,5      | 1    | S.A    |        |
| C827     | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1    | S.A    |        |
| C828     | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1    | S.A    |        |
| C801     | 2401-000703 | C-AL                | 2200uF,20%,25V,GP,-,12.5x25mm,   | 1    | S.A    |        |
| C831     | 2401-000922 | C-AL                | 22uF,20%,16V,GP,TP,5x5,5         | 1    | S.A    |        |
| C808     | 2401-000947 | C-AL                | 22uF,20%,35V,GP,TP,5x11,5        | 1    | S.A    |        |
| C811     | 2401-002075 | C-AL                | 4.7uF,20%,50V,GP,TP,5x11,5       | 1    | S.A    |        |
| CS810    | 2401-002594 | C-AL                | 220uF,20%,16V,GP,TP,8x11.5,5     | 1    | S.A    |        |
| C804     | 2401-003058 | C-AL                | 100uF,20%,200V,WT,TP,16x25,7.5   | 1    | S.A    |        |
| C805     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1    | S.A    |        |
| C814     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1    | S.A    |        |
| C818     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1    | S.A    |        |
| C823     | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1    | S.A    |        |
| CS802    | 2401-003473 | C-AL                | 680UF,20%,16V,GP,TP,10X12.5MM,5  | 1    | S.A    |        |
| F101     | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-                | 1    | S.A    |        |
| L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514    | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| △ FS801S | 3601-001064 | FUSE-AXIAL LEAD     | 125V,4A,FAST-ACTING,GLAS         | 1    | S.A    |        |
| △ FD802S | 3601-001086 | FUSE-AXIAL LEAD     | 125V,5A,FAST-ACTING,GLAS         | 1    | S.A    |        |
| △ FD804S | 3601-001086 | FUSE-AXIAL LEAD     | 125V,5A,FAST-ACTING,GLAS         | 1    | S.A    |        |
| △ FD801S | 3601-001228 | FUSE-AXIAL LEAD     | 125V,10A,FAST-ACTING,EPO         | 1    | S.A    |        |
| F801A    | 3602-000114 | FUSE-HOLDER         | -,30mohm                         | 1    | S.A    |        |
| F801B    | 3602-000114 | FUSE-HOLDER         | -,30mohm                         | 1    | S.A    |        |
| EL801    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL802    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL803    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL804    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL805    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL806    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL807    | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY800    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY801    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY802    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY803    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY804    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY805    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY806    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY807    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY808    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY809    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY810    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY811    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY812    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY813    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY814    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY815    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY816    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY817    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY818    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY819    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY820    | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |



## Electrical Part List

| Loc.No.  | Code No.    | Description           | Specification                  | Q'ty | SA/SNA | Remark |
|----------|-------------|-----------------------|--------------------------------|------|--------|--------|
| EY821    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY822    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY823    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY824    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY825    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY826    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY827    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY828    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY829    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY830    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY831    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY832    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY833    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY834    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY835    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY836    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY837    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY838    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY839    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY840    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY841    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY842    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY843    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY844    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY845    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY846    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY847    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY848    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY849    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY850    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY851    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY852    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY853    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY854    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY855    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY856    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY857    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY858    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY859    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY860    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY861    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY862    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY863    | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| 0        | AA41-01120C | PCB SUB-POWER         | CT-32Z30HD,CEM-1,1L,C,1.6T     | 1    | S.N.A  |        |
| GT811    | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| GT811    | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| GT811    | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| GT811    | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| GT811    | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| CS809    | 2401-003046 | C-AL                  | 47uF,20%,50V,WT,TP,6.3x11,2.5  | 1    | S.A    |        |
| R818     | 2004-004089 | R-METAL(S)            | 123Kohm,1%,1/2W,AA,TP,2.5x6.5  | 1    | S.A    |        |
| R819     | 2004-005059 | R-METAL(S)            | 2.7KOHM,1%,1/2W,AA,TP,6.4X2.4  | 1    | S.A    |        |
| L2514    | 3301-001223 | BEAD-AXIAL            | 62ohm,3.5x0.8x5mm,,TP,,,       | 1    | S.N.A  |        |
| L2514    | 3301-001223 | BEAD-AXIAL            | 62ohm,3.5x0.8x5mm,,TP,,,       | 1    | S.N.A  |        |
| L2514    | 3301-001223 | BEAD-AXIAL            | 62ohm,3.5x0.8x5mm,,TP,,,       | 1    | S.N.A  |        |
| L2514    | 3301-001223 | BEAD-AXIAL            | 62ohm,3.5x0.8x5mm,,TP,,,       | 1    | S.N.A  |        |
| T802S    | BN26-00022A | TRANS SWITCHING-ST BY | EE2020,20B07-*,400             | 1    | S.A    |        |
| △ LX801S | BN29-00010A | FILTER LINE NOISE     | LCDTV,SQE3535H,0.1ohm,         | 1    | S.A    |        |
| △ LX802S | BN29-00010A | FILTER LINE NOISE     | LCDTV,SQE3535H,0.1ohm,         | 1    | S.A    |        |
| HS802    | BP96-00020W | ASSY HEAT SINK P      | AA62-00045B,SCREW,GM713        | 1    | S.N.A  |        |
| CIS1     | 0205-001154 | OIL-SILICON           | G746,-,-                       | 0.1  | S.N.A  |        |
| M0081    | 6003-000335 | SCREW-TAPTITE         | RH,+,-,2S,M3,L8,ZPC(YEL),SWR   | 1    | S.N.A  |        |
| T0098    | AA62-00045B | HEAT SINK             | COMMANDO,AL1050,T1.0,H45.0     | 1    | S.N.A  |        |
| T0087    | 1203-003229 | IC-POSI.FIXED REG.    | GM7130,TO-220,5P,11.9          | 1    | S.A    |        |
| M2893    | MD39-00096E | LEAD CONNECTOR        | CORE(K62A),UL1007#26,14P,      | 1    | S.A    |        |
| R811     | 2009-001012 | R-METAL PLATE         | 0.27OHM,10%,5W,CL,TP,5X14X     | 1    | S.A    |        |
| R830     | 2009-001012 | R-METAL PLATE         | 0.27OHM,10%,5W,CL,TP,5X14X     | 1    | S.A    |        |
| HS801    | BP96-00006G | ASSY HEAT SINK P      | BP62-00001A,SCREW,0402-        | 1    | S.N.A  |        |

| Loc.No.      | Code No.           | Description         | Specification                   | Q'ty     | SA/SNA     | Remark |
|--------------|--------------------|---------------------|---------------------------------|----------|------------|--------|
| CIS1         | 0205-001154        | OIL-SILICON         | G746,-,-                        | 0.4      | S.N.A      |        |
| M0081        | 6003-000333        | SCREW-TAPTITE       | RH,+2S,M3,L10,ZPC(YEL),SW       | 3        | S.N.A      |        |
| T0098        | BP62-00001A        | HEAT SINK           | COMMANDO,A1050P,T2.0,W62.0,H50  | 1        | S.N.A      |        |
|              | 0402-001593        | DIODE-RECTIFIER     | FMC-G28SL,800V,5A,TO-220        | 1        | S.A        |        |
|              | 0402-001596        | DIODE-RECTIFIER     | SLA1004,200/700,3.5A,-,S        | 1        | S.A        |        |
| △ D801S      | AA96-03027B        | ASSY HEAT SINK P    | AA62-00147A,GSIB660,HER         | 1        | S.N.A      |        |
| CIS1         | 0205-001154        | OIL-SILICON         | G746,-,-                        | 0.1      | S.N.A      |        |
| M0081        | 6003-000333        | SCREW-TAPTITE       | RH,+2S,M3,L10,ZPC(YEL),SW       | 1        | S.N.A      |        |
| T0063        | AA60-30003A        | WASHER              | T1.5,SBHG-1                     | 1        | S.N.A      |        |
| T0175        | AA62-00147A        | HEAT SINK-PS        | K62A,A1050,T2.0,35mm,40mm,W     | 1        | S.N.A      |        |
|              | 0402-001399        | DIODE-BRIDGE        | GSIB660,600V,6A,SIP-4,BK        | 1        | S.A        |        |
| <b>T0065</b> | <b>AA94-15177A</b> | <b>ASSY PCB CRT</b> | <b>WS32Z308P,S62A,OZ</b>        | <b>1</b> | <b>S.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX    | -,RS60S,D1.2,63Sn/37Pb,         | 0.16     | S.N.A      |        |
| IC012        | 1203-000165        | IC-POSI.ADJUST REG. | 78R12,TO-220,4P,-,PL            | 1        | S.A        |        |
| C517         | 2201-000173        | C-CERAMIC,DISC      | 10NF,10%,500V,Y5P,BK,16X4       | 1        | S.A        |        |
| C521         | 2201-000173        | C-CERAMIC,DISC      | 10NF,10%,500V,Y5P,BK,16X4       | 1        | S.A        |        |
| C522         | 2201-002117        | C-CERAMIC,DISC      | 4.7nF,20%,3kV,Y5U,TP,16x6       | 1        | S.A        |        |
| △ V999S      | 3704-001194        | SOCKET-CRT          | 8P+SEN,29PI,22.5PI,NI+SN,-      | 1        | S.A        |        |
| CN906        | 3711-000577        | CONNECTOR-HEADER    | BOX,10P,1R,2.5mm,STRAIG         | 1        | S.A        |        |
| CN906        | 3711-000654        | CONNECTOR-HEADER    | BOX,12P,1R,2.5mm,STRAIG         | 1        | S.A        |        |
| IC063        | AA13-00111A        | IC HYBRID           | STK396-130,WT-32A20HD,12,105C,  | 1        | S.A        |        |
| T0100        | AA97-15851A        | ASSY AUTO-CRT       | ,OZ,S62A                        | 1        | S.N.A      |        |
| D501         | 0401-000005        | DIODE-SWITCHING     | 1N4148,75V,150MA,DO-35,T        | 1        | S.A        |        |
| D503         | 0401-000005        | DIODE-SWITCHING     | 1N4148,75V,150MA,DO-35,T        | 1        | S.A        |        |
| D504         | 0402-000132        | DIODE-RECTIFIER     | 1N4004,400V,1A,DO-41,TP         | 1        | S.A        |        |
| D502         | 0402-000493        | DIODE-RECTIFIER     | 1R5GU41,400V,1.5A,DO-15L        | 1        | S.A        |        |
| D506         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D509         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D510         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D511         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D512         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D513         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| D514         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| DF08         | 0402-000546        | DIODE-RECTIFIER     | TVR10G,400V,1.0A,DO-41,T        | 1        | S.A        |        |
| DZ503        | 0403-000508        | DIODE-ZENER         | MTZJ5.6B,5.45-5.73V,500MW,DO    | 1        | S.A        |        |
| DZ504        | 0403-000698        | DIODE-ZENER         | TZPJ2A,5%,1000MW,DO-41,TP       | 1        | S.A        |        |
| DZ501        | 0403-000708        | DIODE-ZENER         | MTZJ13B,12.55-13.21V,500MW,D    | 1        | S.A        |        |
| DZ502        | 0403-000708        | DIODE-ZENER         | MTZJ13B,12.55-13.21V,500MW,D    | 1        | S.A        |        |
| Q501         | 0501-000283        | TR-SMALL SIGNAL     | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q502         | 0501-000283        | TR-SMALL SIGNAL     | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q503         | 0501-000283        | TR-SMALL SIGNAL     | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q504         | 0501-000283        | TR-SMALL SIGNAL     | KSA539,PNP,400mW,TO-92,T        | 1        | S.A        |        |
| Q505         | 0501-000389        | TR-SMALL SIGNAL     | KSC815,NPN,400mW,TO-92,T        | 1        | S.A        |        |
| IC506        | 0502-000006        | TR-POWER            | KSC1507,NPN,15W,TO-220,TP,120-  | 1        | S.A        |        |
| R531         | 2001-000009        | R-CARBON            | 20KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| R560         | 2001-000052        | R-CARBON(S)         | 3.3KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R518         | 2001-000066        | R-CARBON(S)         | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1        | S.A        |        |
| R533         | 2001-000066        | R-CARBON(S)         | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1        | S.A        |        |
| R564         | 2001-000066        | R-CARBON(S)         | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1        | S.A        |        |
| R536         | 2001-000085        | R-CARBON(S)         | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R562         | 2001-000085        | R-CARBON(S)         | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R563         | 2001-000085        | R-CARBON(S)         | 100KOHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |
| R501         | 2001-000241        | R-CARBON            | 1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R502         | 2001-000241        | R-CARBON            | 1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R527         | 2001-000241        | R-CARBON            | 1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R530         | 2001-000273        | R-CARBON            | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R522         | 2001-000290        | R-CARBON            | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| R519         | 2001-000397        | R-CARBON            | 180KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R540         | 2001-000429        | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R554         | 2001-000429        | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R555         | 2001-000429        | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R556         | 2001-000429        | R-CARBON            | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R507         | 2001-000472        | R-CARBON            | 2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R520         | 2001-000563        | R-CARBON            | 27KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| R517         | 2001-000666        | R-CARBON            | 33OHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1        | S.A        |        |
| R523         | 2001-000890        | R-CARBON            | 6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R566         | 2001-001040        | R-CARBON(S)         | 0.68OHM,5%,1/2W,AA,TP,2.4X6.    | 1        | S.A        |        |

## Electrical Part List

| Loc.No. | Code No.    | Description         | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|---------------------|----------------------------------|------|--------|--------|
| R504    | 2001-001045 | R-CARBON(S)         | 1.2KOHM,5%,1/2W,AA,TP,2.4X6.     | 1    | S.A    |        |
| R505    | 2001-001045 | R-CARBON(S)         | 1.2KOHM,5%,1/2W,AA,TP,2.4X6.     | 1    | S.A    |        |
| R512    | 2001-001045 | R-CARBON(S)         | 1.2KOHM,5%,1/2W,AA,TP,2.4X6.     | 1    | S.A    |        |
| R538    | 2001-001062 | R-CARBON(S)         | 10MOHM,5%,1/2W,AA,TP,2.4X6.4     | 1    | S.A    |        |
| R565    | 2001-001071 | R-CARBON(S)         | 12KOHM,5%,1/2W,AA,TP,2.4X6.4     | 1    | S.A    |        |
| R535    | 2001-001103 | R-CARBON(S)         | 20KOHM,5%,1/2W,AA,TP,2.4X6.4     | 1    | S.A    |        |
| R561    | 2001-001126 | R-CARBON(S)         | 300OHM,5%,1/2W,AA,TP,2.4X6.4     | 1    | S.A    |        |
| RF11    | 2001-001175 | R-CARBON(S)         | 62OHM,5%,1/2W,AA,TP,2.4X6.4M     | 1    | S.A    |        |
| R537    | 2001-001196 | R-CARBON(S)         | 9.1KOHM,5%,1/2W,AA,TP,2.4X6.     | 1    | S.A    |        |
| R525    | 2002-001006 | R-COMPOSITION       | 4.7KOHM,15%,1/2W,AA,TP,3.7       | 1    | S.A    |        |
| R513    | 2002-001102 | R-COMPOSITION       | 510OHM,10%,1/2W,AA,TP,3.3X       | 1    | S.A    |        |
| R514    | 2002-001102 | R-COMPOSITION       | 510OHM,10%,1/2W,AA,TP,3.3X       | 1    | S.A    |        |
| R515    | 2002-001102 | R-COMPOSITION       | 510OHM,10%,1/2W,AA,TP,3.3X       | 1    | S.A    |        |
| RF12    | 2003-001093 | R-METAL OXIDE(S)    | 12Kohm,5%,2W,AF,TP,3.9x          | 1    | S.A    |        |
| R532    | 2004-001893 | R-METAL(S)          | 22Kohm,1%,1/2W,AA,TP,2.5x6.5m    | 1    | S.A    |        |
| R534    | 2004-004097 | R-METAL             | 1.6Kohm,2%,1/2W,AA,TP,2.4X6.4mm  | 1    | S.A    |        |
| R509    | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5      | 1    | S.A    |        |
| R528    | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5      | 1    | S.A    |        |
| R541    | 2008-000205 | R-FUSIBLE(S)        | 10ohm,5%,1/2W,AF,TP,2.5x6.5      | 1    | S.A    |        |
| RF13    | 2008-000292 | R-FUSIBLE(S)        | 3.3ohm,5%,2W,AF,TP,3.9x10mm      | 1    | S.A    |        |
| CF02    | 2201-000017 | C-CERAMIC,DISC      | 1NF,10%,50V,Y5P,TP,5X3.5M        | 1    | S.A    |        |
| CF05    | 2201-000019 | C-CERAMIC,DISC      | 10nF,+80-20%,500V,Y5V,TP,        | 1    | S.A    |        |
| C501    | 2201-000193 | C-CERAMIC,DISC      | 0.01NF,0.25PF,50V,C0G,TP,        | 1    | S.A    |        |
| C513    | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.        | 1    | S.A    |        |
| C514    | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.        | 1    | S.A    |        |
| C515    | 2201-000599 | C-CERAMIC,DISC      | 0.56NF,10%,500V,Y5P,TP,5.        | 1    | S.A    |        |
| CF07    | 2201-000604 | C-CERAMIC,DISC      | 0.056NF,+100-0%,500V,SL,T        | 1    | S.A    |        |
| CF06    | 2201-002103 | C-CERAMIC,DISC      | 0.015NF,5%,500V,C0G,TP,6.        | 1    | S.A    |        |
| C504    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x         | 1    | S.A    |        |
| C505    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x         | 1    | S.A    |        |
| C506    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x         | 1    | S.A    |        |
| C507    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x         | 1    | S.A    |        |
| C509    | 2301-000016 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,7.2x4.5x         | 1    | S.A    |        |
| C508    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,         | 1    | S.A    |        |
| C511    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,         | 1    | S.A    |        |
| C512    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,         | 1    | S.A    |        |
| C526    | 2301-001211 | C-FILM,LEAD-PPF     | 22nF,5%,400V,TP,20x7x14,         | 1    | S.A    |        |
| C518    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C533    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| CF74    | 2401-000025 | C-AL                | 100uF,20%,16V,GP,TP,6.3x11.5     | 1    | S.A    |        |
| CF75    | 2401-000025 | C-AL                | 100uF,20%,16V,GP,TP,6.3x11.5     | 1    | S.A    |        |
| CF73    | 2401-000045 | C-AL                | 10uF,20%,160V,GP,TP,10x16.5      | 1    | S.A    |        |
| CF01    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11.5     | 1    | S.A    |        |
| C516    | 2401-000360 | C-AL                | 100uF,20%,50V,GP,TP,8x11.5.5     | 1    | S.A    |        |
| C519    | 2401-000430 | C-AL                | 10uF,20%,250V,GP,TP,10x16mm,5m   | 1    | S.A    |        |
| C520    | 2401-000703 | C-AL                | 2200uF,20%,25V,GP,-,12.5x25mm,   | 1    | S.A    |        |
| C528    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5.5     | 1    | S.A    |        |
| C534    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5.5     | 1    | S.A    |        |
| CF71    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5.5     | 1    | S.A    |        |
| C535    | 2401-000913 | C-AL                | 22uF,20%,16V,GP,TP,5x11.5        | 1    | S.A    |        |
| C532    | 2401-001563 | C-AL                | 47uF,20%,400V,GP,TP,16x25.7.5    | 1    | S.A    |        |
| CF04    | 2401-001872 | C-AL                | 10uF,20%,250V,WT,TP,10x16.5      | 1    | S.A    |        |
| LF03    | 2701-000112 | INDUCTOR-AXIAL      | 100UH,10%,3070                   | 1    | S.A    |        |
| L502    | 2701-000178 | INDUCTOR-AXIAL      | 33UH,10%,3070                    | 1    | S.A    |        |
| L501    | 2701-001040 | INDUCTOR-AXIAL      | 10UH,10%,4514                    | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -.3A,-,-,3.5x5,TP,-              | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -.3A,-,-,3.5x5,TP,-              | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -.3A,-,-,3.5x5,TP,-              | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -.3A,-,-,3.5x5,TP,-              | 1    | S.A    |        |
| CN906   | 3711-002642 | CONNECTOR-HEADER    | BOX,3P,1R,2.5mm,STRAIGH          | 1    | S.A    |        |
| CN906   | 3711-002643 | CONNECTOR-HEADER    | BOX,4P,1R,2.5mm,STRAIGH          | 1    | S.A    |        |
| T0310   | 4715-001036 | SURGE ABSORBER      | 500V,20%,-,-,TP                  | 1    | S.N.A  |        |
| T0310   | 4715-001036 | SURGE ABSORBER      | 500V,20%,-,-,TP                  | 1    | S.N.A  |        |
| T0310   | 4715-001036 | SURGE ABSORBER      | 500V,20%,-,-,TP                  | 1    | S.N.A  |        |
| LX085   | AA27-90001B | COIL-SPARK,GAP      | S-23,1.5KV,-,-,-,-,-,-,-,        | 1    | S.A    |        |
| 0       | AA41-01130A | PCB CRT             | CT-32Z30HD,FR-1,1L,A,1.6T,245X24 | 1    | S.N.A  |        |
| GT811   | AA60-40014A | PIN-GT,ASSY         | AUTO                             | 1    | S.A    |        |
| GT811   | AA60-40014A | PIN-GT,ASSY         | AUTO                             | 1    | S.A    |        |

| Loc.No.      | Code No.           | Description                   | Specification                   | Q'ty     | SA/SNA     | Remark |
|--------------|--------------------|-------------------------------|---------------------------------|----------|------------|--------|
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                            | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                            | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                            | 1        | S.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                   | AUTO                            | 1        | S.A        |        |
| R508         | 2001-001026        | R-CARBON                      | 910OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1        | S.A        |        |
| RF35         | 2003-001024        | R-METAL OXIDE(S)              | 150ohm,5%,2W,AF,TP,3.9x         | 1        | S.A        |        |
| R506         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5   | 1        | S.A        |        |
| R510         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5   | 1        | S.A        |        |
| R511         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5   | 1        | S.A        |        |
| R542         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5   | 1        | S.A        |        |
| R543         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5   | 1        | S.A        |        |
| R544         | 2004-001892        | R-METAL(S)                    | 162Kohm,1%,1/2W,AA,TP,2.5x6.5   | 1        | S.A        |        |
| R529         | 2008-000206        | R-FUSIBLE(S)                  | 1ohm,5%,1/2W,AF,TP,2.5x6.5m     | 1        | S.A        |        |
|              | BN62-00004A        | HEAT SINK-IC                  | NK,SUN,A6063S,T2.5,W28,L40,     | 1        | S.N.A      |        |
| M2893        | BP39-00053A        | LEAD CONNECTOR                | P57A/SVP-55WHT,UL1007#26,       | 1        | S.A        |        |
| R559         | 2006-001081        | R-CEMENT                      | 82ohm,5%,5W,CJ,TP,14x10x27mm    | 1        | S.A        |        |
| R567         | 2006-001083        | R-CEMENT                      | 120ohm,5%,5W,CJ,TP,14x10x27mm   | 1        | S.A        |        |
| R568         | 2006-001083        | R-CEMENT                      | 120ohm,5%,5W,CJ,TP,14x10x27mm   | 1        | S.A        |        |
| M2893        | AA39-00331B        | LEAD CONNECTOR                | K60A,UL1007/1185#26,UL/CS       | 1        | S.A        |        |
| T0245        | AA39-20010B        | LEAD CONNECTOR-ASSY           | ,1P,500,YFH800-01,S,            | 1        | S.A        |        |
| T0603        | AA63-10002A        | BAND-TIE                      | NYLON66 V2,L100,NTR             | 1        | S.N.A      |        |
| IC501        | AA96-03027A        | ASSY HEAT SINK P              | AA62-00147A,TDA6111Q,HE         | 1        | S.N.A      |        |
| IC502        | AA96-03027A        | ASSY HEAT SINK P              | AA62-00147A,TDA6111Q,HE         | 1        | S.N.A      |        |
| IC503        | AA96-03027A        | ASSY HEAT SINK P              | AA62-00147A,TDA6111Q,HE         | 1        | S.N.A      |        |
| M0081        | 6003-000334        | SCREW-TAPTITE                 | RH,+,2S,M3,L6,ZPC(YEL),SWR      | 1        | S.N.A      |        |
| T0175        | AA62-00147A        | HEAT SINK-PS                  | K62A,A1050,T2.0,35mm,40mm,W     | 1        | S.N.A      |        |
| T0074        | 1201-001131        | IC-VIDEO AMP                  | 6111,SIP,9P,-,SINGLE,-,PLAS     | 1        | S.A        |        |
| IC504        | BH99-00038K        | ASSY HEAT/SINK                | BH62-00041A,SCREW,TDA2030       | 1        | S.N.A      |        |
| CIS1         | 0205-001154        | OIL-SILICON                   | G746,-,-                        | 0.001    | S.N.A      |        |
| M0081        | 6003-000334        | SCREW-TAPTITE                 | RH,+,2S,M3,L6,ZPC(YEL),SWR      | 1        | S.N.A      |        |
| T0081        | BH62-00041A        | HEAT SINK-TR                  | PN17LT,A1050S,T1.0,50,23,WH     | 1        | S.N.A      |        |
| DU410        | 1201-000010        | IC-OP AMP                     | 2030,PENTAWATT,5P,-,SINGLE,-,C  | 1        | S.A        |        |
| <b>T0091</b> | <b>AA94-15178A</b> | <b>ASSY PCB MISC-A/V SIDE</b> | <b>,OZ,S62A</b>                 | <b>1</b> | <b>S.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX              | -,RS60S,D1.2,63Sn/37Pb,         | 0.01     | S.N.A      |        |
| CN906        | 3711-000577        | CONNECTOR-HEADER              | BOX,10P,1R,2.5mm,STRAIG         | 1        | S.A        |        |
| JK01         | 3722-000544        | JACK-VHS                      | 4P,11.5mm,AG,BLK,N              | 1        | S.A        |        |
| JA701        | 3722-001164        | JACK-PIN                      | 3P,3.4mm,SN,WH:YE:RE,#16-22     | 1        | S.A        |        |
| T0569        | AA97-15852A        | ASSY AUTO-A/V SIDE            | ,OZ,S62A                        | 1        | S.N.A      |        |
| DZ701        | 0403-000708        | DIODE-ZENER                   | MTZJ13B,12.55-13.21V,500MW,D    | 1        | S.A        |        |
| DZ702        | 0403-000708        | DIODE-ZENER                   | MTZJ13B,12.55-13.21V,500MW,D    | 1        | S.A        |        |
| DZ703        | 0403-000720        | DIODE-ZENER                   | MTZJ9.1B,8.57-9.01V,500MW,DO    | 1        | S.A        |        |
| R701         | 2001-000273        | R-CARBON                      | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| R702         | 2001-000273        | R-CARBON                      | 100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1        | S.A        |        |
| C702         | 2202-000121        | C-CERAMIC,MLC-AXIAL           | 100pF,10%,50V,Y5P,TP            | 1        | S.A        |        |
| C703         | 2202-000121        | C-CERAMIC,MLC-AXIAL           | 100pF,10%,50V,Y5P,TP            | 1        | S.A        |        |
| C701         | 2202-000231        | C-CERAMIC,MLC-AXIAL           | 0.33NF,10%,50V,Y5P,T            | 1        | S.A        |        |
| C704         | 2202-000231        | C-CERAMIC,MLC-AXIAL           | 0.33NF,10%,50V,Y5P,T            | 1        | S.A        |        |
| L701         | 2701-000114        | INDUCTOR-AXIAL                | 10UH,10%,2534                   | 1        | S.A        |        |
| L704         | 2701-000114        | INDUCTOR-AXIAL                | 10UH,10%,2534                   | 1        | S.A        |        |
| L702         | 2701-000168        | INDUCTOR-AXIAL                | 3.3UH,5%,2534                   | 1        | S.A        |        |
| L703         | 2701-000168        | INDUCTOR-AXIAL                | 3.3UH,5%,2534                   | 1        | S.A        |        |
| T0091        | AA41-01125A        | PCB-A/V SIDE                  | CT-32Z30HD,FR-1,1L,A,1.6T,2     | 1        | S.N.A      |        |
| M2893        | BP39-00056D        | LEAD CONNECTOR                | K62A(CORE),UL1185#26,UL/C       | 1        | S.A        |        |
| <b>T0137</b> | <b>AA94-15179A</b> | <b>ASSY PCB MISC-LED</b>      | <b>,OZ,S62A</b>                 | <b>1</b> | <b>S.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX              | -,RS60S,D1.2,63Sn/37Pb,         | 0.01     | S.N.A      |        |
| LD01         | 0601-001381        | LED                           | ROUND,RED/GRN,5.0MM,650/563NM   | 1        | S.A        |        |
| CN906        | 3711-001031        | CONNECTOR-HEADER              | BOX,6P,1R,2.5MM,ANGLE,S         | 1        | S.A        |        |
| D0254        | AA32-00012A        | MODULE REMOCON                | ORC-50HF2,38KHZ,940NM,MES       | 1        | S.A        |        |
| T0286        | AA94-15180A        | ASSY PCB MISC-MASTER S/W      | ,OZ,S62A                        | 1        | S.A        |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX              | -,RS60S,D1.2,63Sn/37Pb,         | 0.4      | S.N.A      |        |
| △ SW811S     | 3403-001134        | SWITCH-PUSH                   | 250V,5A,DPST,ON-OFF,-           | 1        | S.A        |        |
| M0081        | 6003-000333        | SCREW-TAPTITE                 | RH,+,2S,M3,L10,ZPC(YEL),SW      | 2        | S.N.A      |        |
| M0081        | 6003-000334        | SCREW-TAPTITE                 | RH,+,2S,M3,L6,ZPC(YEL),SWR      | 2        | S.N.A      |        |
| T0245        | AA39-20179A        | LEAD CONNECTOR-ASSY           | ,3(2)P,300MM,YFH800-            | 1        | S.A        |        |
| T0523        | AA61-00530B        | BRACKET-MASTER                | 25M6,29M6,SECC                  | 1        | S.N.A      |        |
| T0023        | AA97-05539A        | ASSY AUTO-MASTER              | WS36Z48D,KS4A,PAL               | 1        | S.N.A      |        |

Electrical Part List

| Loc.No.      | Code No.           | Description                     | Specification                     | Q'ty     | SA/SNA       | Remark |
|--------------|--------------------|---------------------------------|-----------------------------------|----------|--------------|--------|
| EY01         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| EY02         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| EY03         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| EY04         | 6042-000002        | EYELET                          | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H    | 1        | S.N.A        |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| GT811        | AA60-40014A        | PIN-GT,ASSY                     | AUTO                              | 1        | S.A          |        |
| PCB          | AA41-00521A        | PCB-MASTER S/W                  | CS32Z4,FR-1,1L,A,1.6T,245         | 1        | S.N.A        |        |
|              | AA97-15853A        | ASSY AUTO-LED                   | ,OZ,S62A                          | 1        | S.N.A        |        |
| DC01         | 0401-000005        | DIODE-SWITCHING                 | 1N4148,75V,150MA,DO-35,T          | 1        | S.A          |        |
| DC02         | 0401-000005        | DIODE-SWITCHING                 | 1N4148,75V,150MA,DO-35,T          | 1        | S.A          |        |
| DZC01        | 0403-000508        | DIODE-ZENER                     | MTZJ5.6B,5.45-5.73V,500MW,DO      | 1        | S.A          |        |
| RC01         | 2001-000020        | R-CARBON(S)                     | 220HM,5%,1/2W,AA,TP,2.4X6.4M      | 1        | S.A          |        |
| CC01         | 2401-002291        | C-AL                            | 47uF,20%,16V,GP,TP,6.3x5.5        | 1        | S.A          |        |
| 0            | AA41-01123A        | PCB-LED                         | CT-32Z30HD,FR-1,1L,A,1.6T,245X24  | 1        | S.N.A        |        |
| M2893        | BP39-00033C        | LEAD CONNECTOR                  | K62A(CORE),UL1007#26,UL/C         | 1        | S.A          |        |
| <b>T0275</b> | <b>AA94-15148D</b> | <b>ASSY PCB MISC-DEFLECTION</b> | <b>S62A,OZ</b>                    | <b>1</b> | <b>S.N.A</b> |        |
| T0245        | 0202-001366        | SOLDER-WIRE FLUX                | -,RS60S,D1.2,63Sn/37Pb,           | 0.22     | S.N.A        |        |
| D414         | 0402-000586        | DIODE-RECTIFIER                 | RK49,90V,3.5A,DO-201AD            | 1        | S.A          |        |
| D401         | 0402-001295        | DIODE-RECTIFIER                 | GUR460L-5700,600V,4A,DO-          | 1        | S.A          |        |
| D402         | 0402-001295        | DIODE-RECTIFIER                 | GUR460L-5700,600V,4A,DO-          | 1        | S.A          |        |
| QH01         | 0502-000442        | TR-POWER                        | 2SC4636RB,NPN,2W,TO-220,ST,10-    | 1        | S.A          |        |
| Q409         | 0505-001116        | FET-SILICON                     | BUZ73A,N,200V,22A,0.6ohm,40W      | 1        | S.A          |        |
| Q409         | 0505-001723        | FET-SILICON                     | FQP630TSTU,N,200V,9A,0.4OHM,      | 1        | S.A          |        |
| DU410        | 1201-000191        | IC-OP AMP                       | 4558,DIP,8P,300MIL,DUAL,20V/mV    | 1        | S.A          |        |
| IC401        | 1202-000103        | IC-VOLTAGE COMP.                | 393,DIP,8P,300MIL,DUAL,           | 1        | S.A          |        |
| IC012        | 1203-000162        | IC-POSI.ADJUST REG.             | 317,TO-220,3P,-,PLAS              | 1        | S.A          |        |
| RP402        | 2001-000109        | R-CARBON(S)                     | 470OHM,5%,1/2W,AA,TP,2.4X6.4      | 1        | S.A          |        |
| R449         | 2006-001020        | R-CEMENT                        | 3.9OHM,5%,5W,C,J,TP,10.5X14X23.5  | 1        | S.A          |        |
| RP405        | 2006-001083        | R-CEMENT                        | 120ohm,5%,5W,C,J,TP,14x10x27mm    | 1        | S.A          |        |
| RP406        | 2006-001085        | R-CEMENT                        | 33ohm,5%,5W,C,J,TP,14x10x27mm     | 1        | S.A          |        |
| CH10         | 2301-001041        | C-FILM,LEAD-PPF                 | 15nF,5%,1.6KV,TP,29x14x2          | 1        | S.A          |        |
| CH07         | 2301-001418        | C-FILM,LEAD-PPF                 | 1.5nF,5%,2kV,TP,29x7x13.          | 1        | S.A          |        |
| △ CR407S     | 2301-001418        | C-FILM,LEAD-PPF                 | 1.5nF,5%,2kV,TP,29x7x13.          | 1        | S.A          |        |
| C434         | 2306-000255        | C-FILM,LEAD-PPF                 | 7.4NF,3%,1.6KV,BK,28.5X1          | 1        | S.A          |        |
| △ CR405S     | 2306-000326        | C-FILM,LEAD-PPF                 | 4.7NF,5%,1.6KV,BK,28.5X1          | 1        | S.A          |        |
| △ CR406S     | 2306-000328        | C-FILM,LEAD-PPF                 | 6.8NF,5%,1.6KV,BK,28.5X9          | 1        | S.A          |        |
| C426         | 2306-000350        | C-FILM,LEAD-PPF                 | 270NF,5%,400V,BK,26X18.5          | 1        | S.A          |        |
| C423         | 2306-001017        | C-FILM,LEAD-PPF                 | 680nF,5%,400V,TP,26x14.5          | 1        | S.A          |        |
| C437         | 2306-001017        | C-FILM,LEAD-PPF                 | 680nF,5%,400V,TP,26x14.5          | 1        | S.A          |        |
| SW401        | 3409-000138        | SWITCH-LEVER                    | 30V,200mA,SP3T,NON SHORTING       | 1        | S.A          |        |
| CN906        | 3711-000577        | CONNECTOR-HEADER                | BOX,10P,1R,2.5mm,STRAIG           | 1        | S.A          |        |
| CN906        | 3711-003241        | CONNECTOR-HEADER                | BOX,14P,1R,2.5MM,STRAIG           | 1        | S.A          |        |
| CN906        | 3711-005582        | CONNECTOR-HEADER                | BOX,24P,2R,2.5mm,STRAIG           | 1        | S.A          |        |
| IC063        | AA13-00094A        | IC HYBRID                       | -,DDR1001A,SIP,5P,-,TP            | 1        | S.A          |        |
| TH01         | AA26-00227A        | TRANS-FOCUS                     | EI-2820,TXP3067WHD,6P,7.0 mH      | 1        | S.A          |        |
| T444S        | AA26-00244A        | TRANS FBT                       | FUH29V002,OZ(S62A),2.1mH,U5182    | 1        | S.A          |        |
| T401         | AA26-50001S        | TRANS-HORIZ.DRIVE               | -,-,6.0mH,-,44uH,-                | 1        | S.A          |        |
| T0010        | AA27-00025A        | COIL CHOKE                      | -,1MH,10%,-,BK,-,12X20,14X2       | 1        | S.A          |        |
| T0010        | AA27-00057B        | COIL CHOKE                      | 10mH,YL-9N 15x27.5 C:9.5,0.3m     | 1        | S.A          |        |
| T0010        | AA27-00308B        | COIL CHOKE                      | 3mH,10%,1.8ohm,0.7,14X20 C6.0     | 1        | S.A          |        |
| T0010        | AA27-00344A        | COIL CHOKE                      | CORE(K62A),55uH,10%,0.1ohm,17     | 1        | S.A          |        |
| T0010        | AA27-10001C        | COIL CHOKE                      | -,100uH,K,-,5.0A,ST,700UH-K(R     | 1        | S.A          |        |
| M2893        | AA39-00375B        | LEAD CONNECTOR                  | CT-32Z30HD,UL1007#26,UL/C         | 1        | S.A          |        |
| CN301        | AA60-40012F        | PIN-GT                          | 4P,2.36PI,6/12/14mm,NYLON66,LOCKI | 1        | S.N.A        |        |
| IC301        | AA96-50381A        | ASSY HEAT SINK P                | ,AA62-30180B,LA7845               | 1        | S.N.A        |        |
| T0522        | 0205-001153        | GREASE-SILICON                  | SC102,JAPAN,-                     | 0.09     | S.N.A        |        |
| M0081        | 6003-000333        | SCREW-TAPTITE                   | RH,+,-,2S,M3,L10,ZPC(YEL),SW      | 1        | S.N.A        |        |
| T0066        | AA62-30180B        | HEAT SINK-ES                    | -,A6063 EXTR.,2,WHT,70MM,-,       | 1        | S.N.A        |        |
| T0088        | 1204-000517        | IC-VERTICAL DEF.                | LA7845,SIP,7P,-,PLASTIC           | 1        | S.A          |        |
|              | AA97-15827C        | ASSY AUTO-DEFLECTION            | S62A,OZ                           | 1        | S.N.A        |        |
| D302         | 0401-000005        | DIODE-SWITCHING                 | 1N4148,75V,150MA,DO-35,T          | 1        | S.A          |        |
| D404         | 0401-000005        | DIODE-SWITCHING                 | 1N4148,75V,150MA,DO-35,T          | 1        | S.A          |        |
| D405         | 0401-000005        | DIODE-SWITCHING                 | 1N4148,75V,150MA,DO-35,T          | 1        | S.A          |        |



| Loc.No.  | Code No.    | Description      | Specification                   | Q'ty | SA/SNA | Remark |
|----------|-------------|------------------|---------------------------------|------|--------|--------|
| D410     | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| △ DR01S  | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| △ DR02S  | 0401-000005 | DIODE-SWITCHING  | 1N4148,75V,150MA,DO-35,T        | 1    | S.A    |        |
| D403     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D406     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D407     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D415     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| D422     | 0402-000132 | DIODE-RECTIFIER  | 1N4004,400V,1A,DO-41,TP         | 1    | S.A    |        |
| DH01     | 0402-000254 | DIODE-RECTIFIER  | RGP10J,600V,1A,DO-41,TP         | 1    | S.A    |        |
| DH02     | 0402-000254 | DIODE-RECTIFIER  | RGP10J,600V,1A,DO-41,TP         | 1    | S.A    |        |
| D301     | 0402-000493 | DIODE-RECTIFIER  | 1R5GU41,400V,1.5A,DO-15L        | 1    | S.A    |        |
| D409     | 0402-000493 | DIODE-RECTIFIER  | 1R5GU41,400V,1.5A,DO-15L        | 1    | S.A    |        |
| D411     | 0402-000534 | DIODE-RECTIFIER  | RG10V,400V,1.2A,DO-201,T        | 1    | S.A    |        |
| D412     | 0402-000534 | DIODE-RECTIFIER  | RG10V,400V,1.2A,DO-201,T        | 1    | S.A    |        |
| D413     | 0402-000534 | DIODE-RECTIFIER  | RG10V,400V,1.2A,DO-201,T        | 1    | S.A    |        |
| DZ302    | 0403-000699 | DIODE-ZENER      | TZP27B,27-30.8V,1000MW,DO-41    | 1    | S.A    |        |
| DZ306    | 0403-000700 | DIODE-ZENER      | TZP33A,5%,1000MW,DO-41,TP       | 1    | S.A    |        |
| DZ404    | 0403-000700 | DIODE-ZENER      | TZP33A,5%,1000MW,DO-41,TP       | 1    | S.A    |        |
| DP401    | 0403-000701 | DIODE-ZENER      | TZP5.1A,5%,1000MW,DO-41,TP      | 1    | S.A    |        |
| DZ402    | 0403-000708 | DIODE-ZENER      | MTZJ13B,12.55-13.21V,500MW,D    | 1    | S.A    |        |
| △ DZR01S | 0403-000718 | DIODE-ZENER      | MTZJ6.8B,6.52-6.79V,500MW,DO    | 1    | S.A    |        |
| DZ304    | 0403-001221 | DIODE-ZENER      | UZ39BSB,35.36-37.19V,500MW,D    | 1    | S.A    |        |
| DZ401    | 0403-001325 | DIODE-ZENER      | MTZJ15C,14.42-15.02V,500MW,D    | 1    | S.A    |        |
| DZ307    | 0403-001328 | DIODE-ZENER      | MTZJ22A,20.15-21.2V,500MW,DO    | 1    | S.A    |        |
| DZ303    | 0403-001329 | DIODE-ZENER      | MTZJ24B,22.75-23.73V,500MW,D    | 1    | S.A    |        |
| DZ305    | 0403-001329 | DIODE-ZENER      | MTZJ24B,22.75-23.73V,500MW,D    | 1    | S.A    |        |
| QH02     | 0501-000283 | TR-SMALL SIGNAL  | KSA539,PNP,400mW,TO-92,T        | 1    | S.A    |        |
| QH04     | 0501-000283 | TR-SMALL SIGNAL  | KSA539,PNP,400mW,TO-92,T        | 1    | S.A    |        |
| QH03     | 0501-000369 | TR-SMALL SIGNAL  | KSC2331-Y,NPN,1000mW,TO-        | 1    | S.A    |        |
| QP402    | 0501-000389 | TR-SMALL SIGNAL  | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| QP405    | 0501-000389 | TR-SMALL SIGNAL  | KSC815,NPN,400mW,TO-92,T        | 1    | S.A    |        |
| Q409     | 0505-000109 | FET-SILICON      | 2N7000,N,60V,200mA,5ohm,400m    | 1    | S.A    |        |
| △ QR01S  | 1203-001274 | IC-VOL. DETECTOR | 7545,TO-92,3P,-,PLASTIC         | 1    | S.A    |        |
| R421     | 2001-000002 | R-CARBON(S)      | 200KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| RH09     | 2001-000008 | R-CARBON         | 15KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH14     | 2001-000008 | R-CARBON         | 15KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH15     | 2001-000008 | R-CARBON         | 15KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R303     | 2001-000016 | R-CARBON(S)      | 1OHM,5%,1/2W,AA,TP,2.4X6.4MM    | 1    | S.A    |        |
| R418     | 2001-000028 | R-CARBON(S)      | 100OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R439     | 2001-000028 | R-CARBON(S)      | 100OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R317     | 2001-000066 | R-CARBON(S)      | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R442     | 2001-000066 | R-CARBON(S)      | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RP403    | 2001-000066 | R-CARBON(S)      | 10KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RH19     | 2001-000109 | R-CARBON(S)      | 470OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RH07     | 2001-000221 | R-CARBON         | 1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| RP407    | 2001-000281 | R-CARBON         | 100OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R309     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R310     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH02     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH03     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH12     | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| △ RR06S  | 2001-000290 | R-CARBON         | 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH13     | 2001-000319 | R-CARBON         | 120KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| RH05     | 2001-000331 | R-CARBON         | 12KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RH10     | 2001-000331 | R-CARBON         | 12KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R441     | 2001-000429 | R-CARBON         | 1KOHM,5%,1/8W,AA,TP,1.8X3.2MM   | 1    | S.A    |        |
| RH06     | 2001-000515 | R-CARBON         | 220OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| RP401    | 2001-000734 | R-CARBON         | 4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| RH08     | 2001-000812 | R-CARBON         | 5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM | 1    | S.A    |        |
| △ RR05S  | 2001-000832 | R-CARBON         | 510OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| △ RR02S  | 2001-000904 | R-CARBON         | 620OHM,5%,1/8W,AA,TP,1.8X3.2MM  | 1    | S.A    |        |
| R444     | 2001-001054 | R-CARBON(S)      | 1.6KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| RH23     | 2001-001055 | R-CARBON(S)      | 1.8KOHM,5%,1/2W,AA,TP,2.4X6.    | 1    | S.A    |        |
| R420     | 2001-001070 | R-CARBON(S)      | 120OHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| RH16     | 2001-001078 | R-CARBON(S)      | 15KOHM,5%,1/2W,AA,TP,2.4X6.4    | 1    | S.A    |        |
| R419     | 2001-001088 | R-CARBON(S)      | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| R436     | 2001-001088 | R-CARBON(S)      | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |
| RP404    | 2001-001088 | R-CARBON(S)      | 1KOHM,5%,1/2W,AA,TP,2.4X6.4M    | 1    | S.A    |        |

## Electrical Part List

| Loc.No.  | Code No.    | Description      | Specification                  | Q'ty | SA/SNA | Remark |
|----------|-------------|------------------|--------------------------------|------|--------|--------|
| R455     | 2001-001111 | R-CARBON(S)      | 240OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| RH11     | 2001-001138 | R-CARBON(S)      | 390OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| RH17     | 2001-001143 | R-CARBON(S)      | 4.3KOHM,5%,1/2W,AA,TP,2.4X6.   | 1    | S.A    |        |
| RH04     | 2001-001144 | R-CARBON(S)      | 4.7KOHM,5%,1/2W,AA,TP,2.4X6.   | 1    | S.A    |        |
| R301     | 2001-001163 | R-CARBON(S)      | 560OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R415     | 2001-001178 | R-CARBON(S)      | 680OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R433     | 2001-001194 | R-CARBON(S)      | 82KOHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R302     | 2001-001197 | R-CARBON(S)      | 910OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R308     | 2001-001197 | R-CARBON(S)      | 910OHM,5%,1/2W,AA,TP,2.4X6.4   | 1    | S.A    |        |
| R407     | 2003-000493 | R-METAL OXIDE(S) | 12ohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R412     | 2003-000493 | R-METAL OXIDE(S) | 12ohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R416     | 2003-000493 | R-METAL OXIDE(S) | 12ohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R404     | 2003-000540 | R-METAL OXIDE(S) | 1Kohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R405     | 2003-000540 | R-METAL OXIDE(S) | 1Kohm,5%,2W,AF,TP,4x12m        | 1    | S.A    |        |
| R426     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R427     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R429     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R445     | 2003-000652 | R-METAL OXIDE(S) | 330ohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R409     | 2003-000998 | R-METAL OXIDE    | 300ohm,5%,2W,AF,TP,3.9x10m     | 1    | S.A    |        |
| R410     | 2003-000998 | R-METAL OXIDE    | 300ohm,5%,2W,AF,TP,3.9x10m     | 1    | S.A    |        |
| R435     | 2003-001042 | R-METAL OXIDE(S) | 5.6Kohm,5%,2W,AF,TP,3.9        | 1    | S.A    |        |
| R401     | 2003-001090 | R-METAL OXIDE(S) | 10Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R402     | 2003-001090 | R-METAL OXIDE(S) | 10Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| R447     | 2003-001090 | R-METAL OXIDE(S) | 10Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| RH20     | 2003-002024 | R-METAL OXIDE(S) | 91Kohm,5%,2W,AF,TP,3.9x        | 1    | S.A    |        |
| RH21     | 2003-002024 | R-METAL OXIDE(S) | 91Kohm,5%,2W,AF,TP,3.9x        | 1    | S.A    |        |
| R446     | 2003-002102 | R-METAL OXIDE(S) | 68Kohm,5%,2W,AF,TP,4x12        | 1    | S.A    |        |
| RH22     | 2003-002212 | R-METAL OXIDE(S) | 75Kohm,5%,2W,AF,TP,3.9X        | 1    | S.A    |        |
| R431     | 2004-000531 | R-METAL          | 20Kohm,1%,1/2W,AA,TP,2.3x6.5mm | 1    | S.A    |        |
| R428     | 2004-000698 | R-METAL          | 3.3Kohm,1%,1/4W,AA,TP,2.4x6.4m | 1    | S.A    |        |
| R417     | 2004-001371 | R-METAL(S)       | 1.5Kohm,1%,1/2W,AA,TP,2.4x6.4  | 1    | S.A    |        |
| R423     | 2004-001371 | R-METAL(S)       | 1.5Kohm,1%,1/2W,AA,TP,2.4x6.4  | 1    | S.A    |        |
| △ RR430S | 2004-001390 | R-METAL(S)       | 1Kohm,2%,1/2W,AA,TP,2.4x6.4mm  | 1    | S.A    |        |
| R454     | 2004-001394 | R-METAL(S)       | 2Kohm,1%,1/2W,AA,TP,2.4x6.4mm  | 1    | S.A    |        |
| R414     | 2004-001970 | R-METAL(S)       | 1.8Kohm,1%,1/2W,AA,TP,6.5x2.5  | 1    | S.A    |        |
| R411     | 2004-001987 | R-METAL(S)       | 4.3Kohm,1%,1/2W,AA,TP,2.4x6.4  | 1    | S.A    |        |
| R430     | 2004-002016 | R-METAL(S)       | 15Kohm,1%,1/2W,AA,TP,2.5x6.5m  | 1    | S.A    |        |
| R440     | 2004-002016 | R-METAL(S)       | 15Kohm,1%,1/2W,AA,TP,2.5x6.5m  | 1    | S.A    |        |
| R316     | 2004-004046 | R-METAL(S)       | 430Kohm,1%,1/2W,AA,TP,2.5x6.5  | 1    | S.A    |        |
| R314     | 2004-005051 | R-METAL(S)       | 2.2KOHM,1%,1/2W,AA,TP,2.4X6.4  | 1    | S.A    |        |
| R315     | 2004-005051 | R-METAL(S)       | 2.2KOHM,1%,1/2W,AA,TP,2.4X6.4  | 1    | S.A    |        |
| RH18     | 2004-005051 | R-METAL(S)       | 2.2KOHM,1%,1/2W,AA,TP,2.4X6.4  | 1    | S.A    |        |
| R424     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R425     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R437     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R438     | 2008-000253 | R-FUSIBLE(S)     | 0.47ohm,5%,1W,AF,TP,3.9x10m    | 1    | S.A    |        |
| R307     | 2008-000266 | R-FUSIBLE(S)     | 1ohm,5%,2W,AF,TP,3.9x10mm      | 1    | S.A    |        |
| R422     | 2008-000284 | R-FUSIBLE(S)     | 0.1OHM,10%,2W,AF,TP,3.9X10M    | 1    | S.A    |        |
| R448     | 2008-000284 | R-FUSIBLE(S)     | 0.1OHM,10%,2W,AF,TP,3.9X10M    | 1    | S.A    |        |
| R304     | 2008-001013 | R-FUSIBLE(S)     | 1.2ohm,5%,2W,AF,TP,3.9x10mm    | 1    | S.A    |        |
| R311     | 2008-001018 | R-FUSIBLE(S)     | 0.47ohm,10%,2W,AF,TP,3.9x10    | 1    | S.A    |        |
| RH28     | 2008-001149 | R-FUSIBLE(S)     | 0.22OHM,5%,2W,AF,TP,3.8X11M    | 1    | S.A    |        |
| R319     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| R320     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| R453     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| R456     | 2009-001109 | R-TEMPERATURE    | 240ohm,5%,1/4W,AA,TP,2.3x6     | 1    | S.A    |        |
| C303     | 2201-000132 | C-CERAMIC,DISC   | 0.1NF,10%,500V,Y5P,TP,6.5      | 1    | S.A    |        |
| C401     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C403     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C421     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C424     | 2201-000556 | C-CERAMIC,DISC   | 0.47NF,10%,500V,Y5P,TP,5.      | 1    | S.A    |        |
| C411     | 2301-000160 | C-FILM,LEAD-PEF  | 12nF,5%,50V,TP,11.0x6.0x       | 1    | S.A    |        |
| C432     | 2301-000192 | C-FILM,LEAD-PEF  | 1nF,5%,50V,TP,5.3x10mm,5       | 1    | S.A    |        |
| C420     | 2301-000213 | C-FILM,LEAD-PEF  | 220nF,5%,250V,TP,21.5x11       | 1    | S.A    |        |
| C306     | 2301-000224 | C-FILM,LEAD-PEF  | 22nF,5%,50V,TP,7.4x3.9x1       | 1    | S.A    |        |
| C416     | 2301-000247 | C-FILM,LEAD-PEF  | 33nF,5%,50V,TP,8.1x4.5x1       | 1    | S.A    |        |
| C412     | 2301-000383 | C-FILM,LEAD-PEF  | 10nF,5%,50V,TP,6x7x3.2mm       | 1    | S.A    |        |
| C408     | 2301-001083 | C-FILM,LEAD-PPF  | 27nF,5%,400V,TP,20x7.5x1       | 1    | S.A    |        |



| Loc.No. | Code No.    | Description         | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|---------------------|----------------------------------|------|--------|--------|
| CP401   | 2301-001171 | C-FILM,LEAD-PPF     | 10nF,5%,400V,TP,20x6.5x1         | 1    | S.A    |        |
| C409    | 2301-001385 | C-FILM,LEAD-PPF     | 30nF,5%,630V,TP,20x15.5x         | 1    | S.A    |        |
| C406    | 2303-000163 | C-FILM,LEAD-PPF     | 2.2nF,5%,800V,TP,15x13x8         | 1    | S.A    |        |
| C309    | 2305-000149 | C-FILM,LEAD-PEF     | 100nF,5%,100V,TP,12x12.5         | 1    | S.A    |        |
| C304    | 2305-000285 | C-FILM,LEAD-PEF     | 220NF,5%,100V,TP,10.5X5.         | 1    | S.A    |        |
| C308    | 2305-000411 | C-FILM,LEAD-PEF     | 470nF,5%,50V,TP,7.3x4.8x         | 1    | S.A    |        |
| C407    | 2305-000412 | C-FILM,LEAD-PEF     | 470nF,5%,63V,TP,-,5mm            | 1    | S.A    |        |
| C440    | 2305-000412 | C-FILM,LEAD-PEF     | 470nF,5%,63V,TP,-,5mm            | 1    | S.A    |        |
| C417    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C430    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C442    | 2305-000665 | C-FILM,LEAD-PEF     | 100nF,5%,63V,TP,7.5x4.0x         | 1    | S.A    |        |
| C419    | 2305-001011 | C-FILM,LEAD-PEF     | 22nF,5%,100V,TP,3.5x12.5         | 1    | S.A    |        |
| C425    | 2306-000127 | C-FILM,LEAD-PPF     | 120nF,5%,400V,TP,21.5x17         | 1    | S.A    |        |
| C405    | 2401-000038 | C-AL                | 470uF,20%,25V,GP,TP,10x12.5mm,   | 1    | S.A    |        |
| C443    | 2401-000039 | C-AL                | 1000uF,20%,16V,GP,TP,10x16,5     | 1    | S.A    |        |
| △ CR03S | 2401-000050 | C-AL                | 10uF,20%,16V,GP,TP,5x11,2,5      | 1    | S.A    |        |
| CH02    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11,5     | 1    | S.A    |        |
| CH03    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11,5     | 1    | S.A    |        |
| CH05    | 2401-000287 | C-AL                | 100uF,20%,16V,WT,TP,6.3x11,5     | 1    | S.A    |        |
| CH04    | 2401-000318 | C-AL                | 100uF,20%,25V,LZ,TP,8x11.5,5     | 1    | S.A    |        |
| CH06    | 2401-000318 | C-AL                | 100uF,20%,25V,LZ,TP,8x11.5,5     | 1    | S.A    |        |
| C302    | 2401-000365 | C-AL                | 100uF,20%,50V,WT,TP,10x12.5mm,   | 1    | S.A    |        |
| C307    | 2401-000365 | C-AL                | 100uF,20%,50V,WT,TP,10x12.5mm,   | 1    | S.A    |        |
| C427    | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1    | S.A    |        |
| C429    | 2401-000698 | C-AL                | 2200uF,20%,16V,WT,TP,12.5x25,5   | 1    | S.A    |        |
| CH01    | 2401-000832 | C-AL                | 220uF,20%,25V,GP,TP,8x11.5,5     | 1    | S.A    |        |
| C404    | 2401-001838 | C-AL                | 470uF,20%,25V,WT,TP,10x16,5      | 1    | S.A    |        |
| C402    | 2401-002231 | C-AL                | 470uF,20%,50V,WT,TP,13x20mm,5m   | 1    | S.A    |        |
| C418    | 2401-002459 | C-AL                | 220uF,20%,25V,LZ,TP,10x16,5      | 1    | S.A    |        |
| C444    | 2401-003036 | C-AL                | 100uF,20%,16V,GP,TP,5X11mm,5mm   | 1    | S.A    |        |
| C438    | 2401-003058 | C-AL                | 100uF,20%,200V,WT,TP,16x25,7.5   | 1    | S.A    |        |
| C414    | 2401-003139 | C-AL                | 1000uF,20%,25V,WT,TP,10*20,5mm   | 1    | S.A    |        |
| C441    | 2401-003141 | C-AL                | 2200uF,20%,25V,WT,TP,13x25,5mm   | 1    | S.A    |        |
| C428    | 2401-003555 | C-AL                | 3300uF,20%,25V,WT,TP,16x25,7.5   | 1    | S.A    |        |
| C431    | 2401-003578 | C-AL                | 1000uF,20%,10V,GP,TP,8x20mm,5    | 1    | S.A    |        |
| C433    | 2401-003578 | C-AL                | 1000uF,20%,10V,GP,TP,8x20mm,5    | 1    | S.A    |        |
| L301    | 2701-000114 | INDUCTOR-AXIAL      | 10UH,10%,2534                    | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-                | 1    | S.A    |        |
| F101    | 2901-000297 | FILTER-EMI ON BOARD | -,3A,-,3.5x5,TP,-                | 1    | S.A    |        |
| F101    | 2901-000299 | FILTER-EMI ON BOARD | -,6A,UL/CSA,-,9x7.5,             | 1    | S.A    |        |
| F101    | 2901-000299 | FILTER-EMI ON BOARD | -,6A,UL/CSA,-,9x7.5,             | 1    | S.A    |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| L2514   | 3301-000287 | BEAD-AXIAL          | ,3.5x1.0x6.0mm,3000mA,TP,,50     | 1    | S.N.A  |        |
| EL401   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL402   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL403   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL404   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL405   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EL406   | 6042-000001 | EYELET              | ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY302   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY306   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY401   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY402   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY403   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY404   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY405   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY406   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY407   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY408   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY409   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY410   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY411   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY412   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |
| EY413   | 6042-000002 | EYELET              | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H   | 1    | S.N.A  |        |

Electrical Part List

| Loc.No. | Code No.    | Description           | Specification                  | Q'ty | SA/SNA | Remark |
|---------|-------------|-----------------------|--------------------------------|------|--------|--------|
| EY414   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY415   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY416   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY417   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY418   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY419   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY420   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY421   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY422   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY423   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY424   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY425   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY426   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY427   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY428   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY429   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY430   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY431   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY432   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY433   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY434   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY435   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY436   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY437   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY438   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY439   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY440   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY441   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY442   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY443   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY444   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY445   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY446   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY447   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY448   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY449   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY450   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY451   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY452   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY453   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY454   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY455   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY456   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY457   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY458   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY459   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY460   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY466   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY467   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY468   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY469   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY475   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY476   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY477   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY478   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY479   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY480   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY481   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| EY482   | 6042-000002 | EYELET                | ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H | 1    | S.N.A  |        |
| CN909   | AA37-00001A | CONNECTOR-FBT FIX PIN | JM-3500,CPTTV,0.36             | 1    | S.A    |        |
| CN909   | AA37-00001A | CONNECTOR-FBT FIX PIN | JM-3500,CPTTV,0.36             | 1    | S.A    |        |
| 0       | AA41-01121C | PCB-DEFLECTION        | CT-32Z30HD,CEM-1,1L,C,1.6      | 1    | S.N.A  |        |
| GT811   | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| GT811   | AA60-40014A | PIN-GT,ASSY           | AUTO                           | 1    | S.A    |        |
| R413    | 2004-004015 | R-METAL(S)            | 9.1Kohm,1%,1/2W,AA,TP,2.5x6.5  | 1    | S.A    |        |
| R408    | 2008-001015 | R-FUSIBLE(S)          | 1.5ohm,5%,2W,AF,TP,3.9x10mm    | 1    | S.A    |        |
| C422    | 2401-001563 | C-AL                  | 47uF,20%,400V,GP,TP,16x25,7.5  | 1    | S.A    |        |
| Q404    | BP96-00020P | ASSY HEAT SINK P      | AA62-00045A,SCREW,FQP63        | 1    | S.N.A  |        |

| Loc.No. | Code No.           | Description                       | Specification                      | Q'ty     | SA/SNA       | Remark |
|---------|--------------------|-----------------------------------|------------------------------------|----------|--------------|--------|
| CIS1    | 0205-001154        | OIL-SILICON                       | G746,-,-                           | 0.1      | S.N.A        |        |
| M0081   | 6003-000335        | SCREW-TAPTITE                     | RH,+2S,M3,L8,ZPC(YEL),SWR          | 1        | S.N.A        |        |
| T0175   | AA62-00045A        | HEAT SINK-PS                      | -,T1.0,-,-,DREAM,-,-,-,-           | 1        | S.N.A        |        |
| Q409    | 0505-001723        | FET-SILICON                       | FQP630TSTU,N,200V,9A,0.4OHM,       | 1        | S.A          |        |
| HS401   | BP96-00020Q        | ASSY HEAT SINK P                  | AA62-00045A,SCREW,KA278            | 1        | S.N.A        |        |
| CIS1    | 0205-001154        | OIL-SILICON                       | G746,-,-                           | 0.1      | S.N.A        |        |
| M0081   | 6003-000335        | SCREW-TAPTITE                     | RH,+2S,M3,L8,ZPC(YEL),SWR          | 1        | S.N.A        |        |
| T0175   | AA62-00045A        | HEAT SINK-PS                      | -,T1.0,-,-,DREAM,-,-,-,-           | 1        | S.N.A        |        |
| T0087   | 1203-002003        | IC-POSI.FIXED REG.                | 278R09,TO-220,4P,-,PL              | 1        | S.A          |        |
| HS402   | BP96-00020V        | ASSY HEAT SINK P                  | AA62-00045B,SCREW,GM713            | 1        | S.N.A        |        |
| CIS1    | 0205-001154        | OIL-SILICON                       | G746,-,-                           | 0.1      | S.N.A        |        |
| M0081   | 6003-000335        | SCREW-TAPTITE                     | RH,+2S,M3,L8,ZPC(YEL),SWR          | 1        | S.N.A        |        |
| T0098   | AA62-00045B        | HEAT SINK                         | COMMANDO,AL1050,T1.0,H45.0         | 1        | S.N.A        |        |
| H/S     | 1203-001161        | IC-DC/DC CONVERTER                | GM7130,TO-220,5P,-,PL              | 1        | S.A          |        |
| R313    | 2006-001081        | R-CEMENT                          | 82ohm,5%,5W,CJ,TP,14x10x27mm       | 1        | S.A          |        |
| R322    | 2006-001081        | R-CEMENT                          | 82ohm,5%,5W,CJ,TP,14x10x27mm       | 1        | S.A          |        |
| C425BOT | 2303-000141        | C-FILM,LEAD-PPF                   | 18nF,5%,400V,TP,20x13.5x           | 1        | S.A          |        |
| Q403    | AA96-03394A        | ASSY HEAT SINK P                  | AA62-00072B,SCREW,FJL69            | 1        | S.N.A        |        |
| CIS1    | 0205-001154        | OIL-SILICON                       | G746,-,-                           | 0.1      | S.N.A        |        |
|         | 0502-001230        | TR-POWER                          | FJL6920YDTU,N,200000MW,TO-264 F    | 1        | S.A          |        |
| M0081   | 6003-000333        | SCREW-TAPTITE                     | RH,+2S,M3,L10,ZPC(YEL),SW          | 2        | S.N.A        |        |
|         | AA62-30177A        | HEAT SINK-PN                      | -,CUS-1,T1.0,-,KCV12D,-,-,1        | 1        | S.N.A        |        |
| T0239   | BH73-00028B        | SILICON/RUBBER-HS                 | TV ALL,SILICON,26*30*T             | 1        | S.N.A        |        |
| T0175   | BP62-00072B        | HEAT SINK-PS                      | BP62-00072A,T2.0,BP62-00064        | 1        | S.A          |        |
| D418    | AA96-03402A        | ASSY HEAT SINK P                  | AA62-30181W,SCREW,FMP-3            | 1        | S.N.A        |        |
| CIS1    | 0205-001154        | OIL-SILICON                       | G746,-,-                           | 0.4      | S.N.A        |        |
|         | 0402-001296        | DIODE-RECTIFIER                   | FMP-3FU,1.5KV,5A,DO-201A           | 1        | S.A          |        |
| M0081   | 6003-000333        | SCREW-TAPTITE                     | RH,+2S,M3,L10,ZPC(YEL),SW          | 1        | S.N.A        |        |
| T0105   | AA60-30001A        | WASHER-PLATE                      | M3,ID3.5,15X8.5,T1.0,SBHG          | 1        | S.N.A        |        |
| T0066   | AA62-30181W        | HEAT SINK-ES                      | ,AL6063,T2.0,70MM,SCREW,BP6        | 1        | S.A          |        |
| T0296   | AA27-00353A        | COIL LINEARITY                    | 6.4uH,6,DR 17 X 25 (C:6.5          | 1        | S.A          |        |
| T0010   | AA27-00354A        | COIL CHOKE                        | WS32Z30HE,140 uH,10%,0.300 ∅       | 1        | S.A          |        |
|         | <b>AA94-15508A</b> | <b>ASSY PCB MAIN-SYSTEM BOARD</b> | <b>EAST ASIA,S62</b>               | <b>1</b> | <b>S.N.A</b> |        |
| T0245   | 0202-001366        | SOLDER-WIRE FLUX                  | -,RS60S,D1.2,63Sn/37Pb,            | 0.25     | S.N.A        |        |
| DC51    | 2301-000224        | C-FILM,LEAD-PEF                   | 22nF,5%,50V,TP,7.4x3.9x1           | 1        | S.A          |        |
| DC41    | 2301-001664        | C-FILM,LEAD-OTHER                 | 100nF,3%,50V,TP,20x16x             | 1        | S.A          |        |
| C642    | 2401-001998        | C-AL                              | 1000uF,20%,25V,GP,TP,10x20,5mm     | 1        | S.A          |        |
| T0122   | 2802-001177        | RESONATOR-CERAMIC                 | 2.696MHZ,0.4%,BK,10X4.             | 1        | S.A          |        |
| L2514   | 3301-000287        | BEAD-AXIAL                        | ,3.5x1.0x6.0mm,3000mA,TP,,50       | 1        | S.N.A        |        |
| CN906   | 3711-000577        | CONNECTOR-HEADER                  | BOX,10P,1R,2.5mm,STRAIG            | 1        | S.A          |        |
| CN906   | 3711-000654        | CONNECTOR-HEADER                  | BOX,12P,1R,2.5mm,STRAIG            | 1        | S.A          |        |
| CN906   | 3711-001038        | CONNECTOR-HEADER                  | BOX,6P,1R,2.5mm,STRAIGH            | 1        | S.A          |        |
| CN906   | 3711-003043        | CONNECTOR-HEADER                  | BOX,4P,1R,2.5MM,STRAIGH            | 1        | S.A          |        |
| CN906   | 3711-003204        | CONNECTOR-HEADER                  | BOX,24P,2R,2mm,STRAIGHT            | 1        | S.A          |        |
| CN906   | 3711-004379        | CONNECTOR-HEADER                  | BOX,4P,1R,2MM,STRAIGHT,            | 1        | S.A          |        |
| CN906   | 3711-005582        | CONNECTOR-HEADER                  | BOX,24P,2R,2.5mm,STRAIG            | 1        | S.A          |        |
| JA701A  | 3722-001333        | JACK-PIN                          | 9P,3.2mm,NI,BLK,-                  | 1        | S.A          |        |
| JA702   | 3722-001795        | JACK-PIN                          | 10P(10P)-,NI,RD/WH/RD/BL/GN*2,     | 1        | S.A          |        |
| T0568   | AA39-30007A        | CBF IF                            | -,T,100mm,1365#26                  | 1        | S.A          |        |
| CIS3    | AA40-00130A        | TUNER                             | TMQZ2-401A,PAL-CS,PAL Hyper,38.9MH | 1        | S.A          |        |
| CIS3    | AA40-00132A        | TUNER                             | TMQZ2-410A,PAL-CS,PAL Hyper,38.9MH | 1        | S.A          |        |
| GT811   | AA60-40014A        | PIN-GT,ASSY                       | AUTO                               | 1        | S.A          |        |
| IC602   | AA96-50398A        | ASSY HEAT SINK P                  | ,AA62-30182E,TDA7297               | 1        | S.N.A        |        |
| T0522   | 0205-001153        | GREASE-SILICON                    | SC102,JAPAN,-                      | 0.09     | S.N.A        |        |
| M0081   | 6003-000333        | SCREW-TAPTITE                     | RH,+2S,M3,L10,ZPC(YEL),SW          | 1        | S.N.A        |        |
| T0066   | AA62-30182E        | HEAT SINK-ES                      | -,A6063 EXTR,-,WHT,-,-,-,40        | 1        | S.N.A        |        |
| T0124   | 1201-001064        | IC-POWER AMP                      | 7297,ZIP,15P,-,DUAL,32dB,PL        | 1        | S.A          |        |
| M0018   | AA97-15944A        | ASSY MICOM                        | S62A,ST M27W201,T_OZPAS_1000,      | 1        | S.A          |        |
| IC902   | 1102-001133        | IC-EPROM                          | M27W201-80B6,256KX8BIT,DIP,32P,    | 1        | S.A          |        |
|         | AA97-16019B        | ASSY SMD-SYSTEM BOARD             | EAST ASIA,S62A,OZ                  | 1        | S.N.A        |        |
|         | 0202-001375        | SOLDER-CREAM                      | RMA-20-21L,S63,-,Sn63/Pb36.        | 6.94     | S.N.A        |        |
| D201    | 0401-000133        | DIODE-SWITCHING                   | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D202    | 0401-000133        | DIODE-SWITCHING                   | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D604    | 0401-000133        | DIODE-SWITCHING                   | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D903    | 0401-000133        | DIODE-SWITCHING                   | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| D904    | 0401-000133        | DIODE-SWITCHING                   | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |
| DD01    | 0401-000133        | DIODE-SWITCHING                   | RLS4148,75V,150MA,LL-34,           | 1        | S.A          |        |

## Electrical Part List

| Loc.No. | Code No.    | Description     | Specification                | Q'ty | SA/SNA | Remark |
|---------|-------------|-----------------|------------------------------|------|--------|--------|
| DD02    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD08    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD09    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD10    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD13    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD14    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD15    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD16    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD17    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD18    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DD19    | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150MA,LL-34,     | 1    | S.A    |        |
| DZ602   | 0403-000314 | DIODE-ZENER     | RLZJ9,1B,8.8-9.3V,500MW,LL-3 | 1    | S.A    |        |
| DD20    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DD23    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DD24    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DZ601   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DZ603   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DZ604   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ701   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ702   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ703   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ704   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ705   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ706   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ707   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ708   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ709   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ710   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| NZ711   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| RZ901   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| RZ902   | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| ZM03    | 0403-000620 | DIODE-ZENER     | RLZ5.6B,5.45-5.73V,500MW,LL- | 1    | S.A    |        |
| DD11    | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| DD25    | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| SDZ01   | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| SDZ02   | 0403-000746 | DIODE-ZENER     | RLZ3.9B,3.89-4.16V,500MW,LL- | 1    | S.A    |        |
| DD03    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD04    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD05    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD06    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD07    | 0403-001117 | DIODE-ZENER     | RLZ12B,11.44-12.03V,500MW,LL | 1    | S.A    |        |
| DD22    | 0403-001284 | DIODE-ZENER     | RLZ3.3A,3.16-3.38V,500MW,LL- | 1    | S.A    |        |
| ZM02    | 0403-001284 | DIODE-ZENER     | RLZ3.3A,3.16-3.38V,500MW,LL- | 1    | S.A    |        |
| DQ02    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ03    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ04    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ05    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ10    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| EQ02    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| SQ01    | 0501-000280 | TR-SMALL SIGNAL | KSA1182,PNP,150mW,SOT-23     | 1    | S.A    |        |
| DQ01    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ06    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ07    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ08    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ11    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| EQ01    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| EQ03    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q101    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q603    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q604    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q901    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q904    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q907    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| Q908    | 0501-000344 | TR-SMALL SIGNAL | KSC1623-G,NPN,200mW,SOT-     | 1    | S.A    |        |
| DQ09    | 0501-000727 | TR-SMALL SIGNAL | BC848C,NPN,310mW,SOT-23,     | 1    | S.A    |        |
| Q409    | 0505-001679 | FET-SILICON     | FDC6301N,N,25V,0.22A,50HM,0. | 1    | S.A    |        |
| IC104   | 0801-000662 | IC-CMOS LOGIC   | 74HC123,MULTIVIBATOR,SOP,1   | 1    | S.A    |        |
| IC106   | 1001-001082 | IC-VIDEO SWITCH | BA7657F,-,SOP,24P,300MIL     | 1    | S.A    |        |

| Loc.No. | Code No.    | Description        | Specification                  | Q'ty | SA/SNA | Remark |
|---------|-------------|--------------------|--------------------------------|------|--------|--------|
| IC603   | 1001-001178 | IC-AUDIO SWITCH    | TEA6422D,AUDIO SWITCH ,S       | 1    | S.A    |        |
| IC108   | 1002-001398 | IC-A/D CONVERTER   | MST9883CR-110,24Bit(8x3        | 1    | S.A    |        |
| IC112   | 1103-001223 | IC-EEPROM          | 24C16,2Kx8,SOP,8P,5x4mm,2.7/5. | 1    | S.A    |        |
| IC06    | 1203-001211 | IC-VOL. DETECTOR   | 7027,SOT-89,3P,-,PLASTI        | 1    | S.A    |        |
| IC20    | 1203-001211 | IC-VOL. DETECTOR   | 7027,SOT-89,3P,-,PLASTI        | 1    | S.A    |        |
| ICM04   | 1203-001814 | IC-VOL. DETECTOR   | 7025,SOT-89,4P,98MIL,PL        | 1    | S.A    |        |
| T0087   | 1203-002186 | IC-POSI.FIXED REG. | 18,DPAK,3P,240MIL,PLA          | 1    | S.A    |        |
| T0087   | 1203-002186 | IC-POSI.FIXED REG. | 18,DPAK,3P,240MIL,PLA          | 1    | S.A    |        |
| T0087   | 1203-002699 | IC-POSI.FIXED REG. | 78D05,DPAK,3P,6.6X6.1          | 1    | S.A    |        |
| IC062   | 1203-003183 | IC-MULTI REG.      | SI-3002KWM-TL,DPAK,5P,6.6X     | 1    | S.A    |        |
| IC02    | 1204-001814 | IC-SELECTOR        | CXA2151Q,QFP,48P,144MIL,PLAS   | 1    | S.A    |        |
| ICM01   | 1204-001912 | IC-DECODER         | SDA5550M,P-MQFP,100P,-,PLASTI  | 1    | S.A    |        |
| IC118   | 1204-001989 | IC-VIDEO PROCESS   | CXA2165Q,QFP,64P,20X14M        | 1    | S.A    |        |
| IC601   | 1204-002048 | IC-AUDIO PROCESSOR | MSP3411G-QA-B8V3,PQFP          | 1    | S.A    |        |
| IC01    | 1204-002395 | IC-VIDEO DECODER   | VSP9407B-C4,QFP,80P,14x        | 1    | S.A    |        |
| XR03    | 2007-000043 | R-CHIP             | 1Kohm,1%,1/10W,TP,1608         | 1    | S.A    |        |
| XR04    | 2007-000043 | R-CHIP             | 1Kohm,1%,1/10W,TP,1608         | 1    | S.A    |        |
| DR23    | 2007-000052 | R-CHIP             | 10Kohm,1%,1/10W,TP,1608        | 1    | S.A    |        |
| SR26    | 2007-000052 | R-CHIP             | 10Kohm,1%,1/10W,TP,1608        | 1    | S.A    |        |
| AR01    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| AR02    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| DR07    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| ER50    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| JP301   | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| L609    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R705    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R706    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R707    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R708    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R709    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R918    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R940    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| R962    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| RM02    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| RM04    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| RM05    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR08    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR11    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR12    | 2007-000070 | R-CHIP             | 0ohm,5%,1/10W,TP,1608          | 1    | S.A    |        |
| XR07    | 2007-000071 | R-CHIP             | 22ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR40    | 2007-000072 | R-CHIP             | 47ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| DR41    | 2007-000072 | R-CHIP             | 47ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| R926    | 2007-000072 | R-CHIP             | 47ohm,5%,1/10W,TP,1608         | 1    | S.A    |        |
| AR04    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| AR10    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| AR14    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| AR15    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR03    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR04    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR05    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR06    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR09    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR10    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR11    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR18    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR19    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR21    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR30    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR35    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR36    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR49    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR50    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR51    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR58    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR59    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR60    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| DR88    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |
| ER02    | 2007-000074 | R-CHIP             | 100ohm,5%,1/10W,TP,1608        | 1    | S.A    |        |



## Electrical Part List

| Loc.No. | Code No.    | Description | Specification           | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|-------------------------|------|--------|--------|
| ER14    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER15    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R113    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R604    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R605    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R905    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R909    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R941    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R942    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R947    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R948    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R951    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R970    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R971    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| RM01    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| RM08    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR07    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR08    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR12    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR13    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR14    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR29    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| XR01    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| XR02    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| XR63    | 2007-000074 | R-CHIP      | 100ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R610    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R611    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R612    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R613    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR15    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR16    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR17    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR20    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR21    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR22    | 2007-000075 | R-CHIP      | 220ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR25    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR92    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER07    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER18    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER30    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| ER32    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R607    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R608    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R609    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R614    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R615    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R616    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R650    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R651    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R652    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R653    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R654    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R655    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R910    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R919    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R920    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R923    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| SR28    | 2007-000077 | R-CHIP      | 470ohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR43    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR44    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR45    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR46    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| ER38    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| ER46    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R110    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R901    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R902    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R916    | 2007-000078 | R-CHIP      | 1Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |

| Loc.No. | Code No.    | Description | Specification              | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|----------------------------|------|--------|--------|
| R921    | 2007-000078 | R-CHIP      | 1Kohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| R969    | 2007-000078 | R-CHIP      | 1Kohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| RM07    | 2007-000078 | R-CHIP      | 1Kohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| DR86    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| DR87    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| R936    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| SR27    | 2007-000080 | R-CHIP      | 2Kohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| AR09    | 2007-000081 | R-CHIP      | 2.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR32    | 2007-000081 | R-CHIP      | 2.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR33    | 2007-000082 | R-CHIP      | 3.3Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR34    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR37    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR63    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R623    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R906    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R908    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R924    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R925    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R927    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R928    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R933    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R938    | 2007-000084 | R-CHIP      | 4.7Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR13    | 2007-000086 | R-CHIP      | 5.6Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR14    | 2007-000086 | R-CHIP      | 5.6Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| R913    | 2007-000088 | R-CHIP      | 7.5Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR47    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR61    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR62    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR64    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR80    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| ER09    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R606    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R618    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R626    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R627    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R633    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R636    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R701    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R702    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R912    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R931    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R932    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R934    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R935    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| RM03    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| XR09    | 2007-000090 | R-CHIP      | 10Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR24    | 2007-000092 | R-CHIP      | 15Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R621    | 2007-000092 | R-CHIP      | 15Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R622    | 2007-000092 | R-CHIP      | 15Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| ER08    | 2007-000093 | R-CHIP      | 20Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR82    | 2007-000094 | R-CHIP      | 22Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R953    | 2007-000094 | R-CHIP      | 22Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR81    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| ER06    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R108    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R109    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R960    | 2007-000097 | R-CHIP      | 47Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R105    | 2007-000098 | R-CHIP      | 56Kohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| DR27    | 2007-000107 | R-CHIP      | 470Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| AR05    | 2007-000113 | R-CHIP      | 33ohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| XR62    | 2007-000113 | R-CHIP      | 33ohm,5%, 1/10W,TP, 1608   | 1    | S.A    |        |
| DR29    | 2007-000118 | R-CHIP      | 390ohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| R922    | 2007-000120 | R-CHIP      | 680ohm,5%, 1/10W,TP, 1608  | 1    | S.A    |        |
| AR11    | 2007-000123 | R-CHIP      | 1.5Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| AR12    | 2007-000123 | R-CHIP      | 1.5Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| AR13    | 2007-000123 | R-CHIP      | 1.5Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR31    | 2007-000124 | R-CHIP      | 2.2Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |
| DR38    | 2007-000124 | R-CHIP      | 2.2Kohm,5%, 1/10W,TP, 1608 | 1    | S.A    |        |



## Electrical Part List

| Loc.No. | Code No.    | Description | Specification            | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|--------------------------|------|--------|--------|
| DR39    | 2007-000124 | R-CHIP      | 2.2Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R833    | 2007-000124 | R-CHIP      | 2.2Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R903    | 2007-000124 | R-CHIP      | 2.2Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R904    | 2007-000124 | R-CHIP      | 2.2Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R945    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R946    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R952    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R958    | 2007-000125 | R-CHIP      | 3.9Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR66    | 2007-000126 | R-CHIP      | 4.3Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R646    | 2007-000127 | R-CHIP      | 9.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R647    | 2007-000127 | R-CHIP      | 9.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R104    | 2007-000130 | R-CHIP      | 39Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R703    | 2007-000130 | R-CHIP      | 39Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R704    | 2007-000130 | R-CHIP      | 39Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| R961    | 2007-000134 | R-CHIP      | 33Kohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR52    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR53    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR54    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR55    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR56    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR57    | 2007-000211 | R-CHIP      | 1.1Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR91    | 2007-000259 | R-CHIP      | 1.6Kohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R644    | 2007-000287 | R-CHIP      | 100OHM,1%,1/10W,TP,1608  | 1    | S.A    |        |
| R645    | 2007-000287 | R-CHIP      | 100OHM,1%,1/10W,TP,1608  | 1    | S.A    |        |
| SR37    | 2007-000308 | R-CHIP      | 10ohm,5%,1/8W,TP,2012    | 1    | S.A    |        |
| SR38    | 2007-000308 | R-CHIP      | 10ohm,5%,1/8W,TP,2012    | 1    | S.A    |        |
| R603    | 2007-000468 | R-CHIP      | 1Kohm,5%,1/8W,TP,2012    | 1    | S.A    |        |
| ER11    | 2007-000643 | R-CHIP      | 270ohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| ER12    | 2007-000643 | R-CHIP      | 270ohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR08    | 2007-000691 | R-CHIP      | 3.3Mohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| DR28    | 2007-000691 | R-CHIP      | 3.3Mohm,5%,1/10W,TP,1608 | 1    | S.A    |        |
| R911    | 2007-000729 | R-CHIP      | 300ohm,5%,1/10W,TP,1608  | 1    | S.A    |        |
| DR15    | 2007-000869 | R-CHIP      | 4.7Kohm,1%,1/10W,TP,1608 | 1    | S.A    |        |
| R107    | 2007-001044 | R-CHIP      | 56ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| R111    | 2007-001044 | R-CHIP      | 56ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| R112    | 2007-001044 | R-CHIP      | 56ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER01    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER04    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER10    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER13    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER16    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER19    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER20    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER21    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER22    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER23    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER27    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER28    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER35    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER36    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER37    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER39    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER40    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER43    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER44    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| ER45    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR04    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR05    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR06    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR09    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR10    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR11    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR23    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR24    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| SR25    | 2007-001167 | R-CHIP      | 75ohm,5%,1/10W,TP,1608   | 1    | S.A    |        |
| XR05    | 2007-007947 | R-CHIP      | 36ohm,1%,1/10W,TP,1608   | 1    | S.A    |        |
| XR06    | 2007-007947 | R-CHIP      | 36ohm,1%,1/10W,TP,1608   | 1    | S.A    |        |
| XR10    | 2007-007947 | R-CHIP      | 36ohm,1%,1/10W,TP,1608   | 1    | S.A    |        |





| Loc.No. | Code No.    | Description | Specification               | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|-----------------------------|------|--------|--------|
| C646    | 2203-000340 | C-CER,CHIP  | 0.012nF,5%,50V,TH,TP,1608   | 1    | S.A    |        |
| C906    | 2203-000357 | C-CER,CHIP  | 0.15NF,5%,50V,C0G,TP,1608   | 1    | S.A    |        |
| AC10    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C659    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C660    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C902    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C905    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| C910    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC01    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC02    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC40    | 2203-000440 | C-CER,CHIP  | 1nF,10%,50V,X7R,1608        | 1    | S.A    |        |
| DC07    | 2203-000491 | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,- | 1    | S.A    |        |
| DC54    | 2203-000491 | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,- | 1    | S.A    |        |
| DC55    | 2203-000491 | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,- | 1    | S.A    |        |
| DC32    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| DC45    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC08    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC09    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC10    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC13    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC14    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC15    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC74    | 2203-000575 | C-CER,CHIP  | 220nF,10%,25V,X7R,2012      | 1    | S.A    |        |
| EC34    | 2203-000626 | C-CER,CHIP  | 0.022nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC35    | 2203-000626 | C-CER,CHIP  | 0.022nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| DC56    | 2203-000659 | C-CER,CHIP  | 0.27NF,5%,50V,C0G,TP,1608   | 1    | S.A    |        |
| C113    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C114    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC29    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC30    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC31    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC70    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC71    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| EC72    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| ED66    | 2203-000681 | C-CER,CHIP  | 0.027nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C615    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C616    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C619    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C621    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C625    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C628    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C629    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C630    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C631    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C634    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C663    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C667    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C668    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C669    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C673    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C674    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC25    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC26    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC28    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC58    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC62    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| EC63    | 2203-000783 | C-CER,CHIP  | 0.33nF,5%,50V,C0G,1608      | 1    | S.A    |        |
| C701    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C702    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C703    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C704    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C705    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| C706    | 2203-000815 | C-CER,CHIP  | 0.033nF,5%,50V,C0G,1608     | 1    | S.A    |        |
| DC34    | 2203-000888 | C-CER,CHIP  | 4.7nF,10%,50V,X7R,TP,1608   | 1    | S.A    |        |
| AC06    | 2203-000972 | C-CER,CHIP  | 47nF,10%,16V,X7R,TP,1608    | 1    | S.A    |        |
| AC09    | 2203-000972 | C-CER,CHIP  | 47nF,10%,16V,X7R,TP,1608    | 1    | S.A    |        |
| AC13    | 2203-000972 | C-CER,CHIP  | 47nF,10%,16V,X7R,TP,1608    | 1    | S.A    |        |
| DC35    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-  | 1    | S.A    |        |

Electrical Part List

| Loc.No. | Code No.    | Description | Specification                   | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|---------------------------------|------|--------|--------|
| EC17    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC18    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC19    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC20    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC21    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC22    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| EC23    | 2203-000975 | C-CER,CHIP  | 47nF,10%,25V,X7R,TP,1608,-      | 1    | S.A    |        |
| DC63    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC41    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC42    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC45    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| SC46    | 2203-000998 | C-CER,CHIP  | 0.047NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| DC36    | 2203-001034 | C-CER,CHIP  | 5.6nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C638    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C643    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C670    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C671    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C672    | 2203-001071 | C-CER,CHIP  | 0.056NF,5%,50V,C0G,TP,1608      | 1    | S.A    |        |
| C903    | 2203-001103 | C-CER,CHIP  | 6.8nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| AC24    | 2203-001211 | C-CER,CHIP  | 8.2nF,10%,50V,X7R,TP,1608       | 1    | S.A    |        |
| C624    | 2203-001607 | C-CER,CHIP  | 0.22nF,5%,50V,NP0,-,1608        | 1    | S.A    |        |
| CM01    | 2203-001628 | C-CER,CHIP  | 0.03nF,5%,50V,NP0,1608          | 1    | S.A    |        |
| CM02    | 2203-001628 | C-CER,CHIP  | 0.03nF,5%,50V,NP0,1608          | 1    | S.A    |        |
| C601    | 2203-001656 | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608       | 1    | S.A    |        |
| SC28    | 2203-001656 | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608       | 1    | S.A    |        |
| DC08    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC20    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC22    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC31    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| DC33    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC07    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC08    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC09    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC10    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC11    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC12    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC13    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC23    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC24    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC25    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC48    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| SC49    | 2203-002494 | C-CER,CHIP  | 470nF,10%,16V,X7R,2012          | 1    | S.A    |        |
| C908    | 2203-005005 | C-CER,CHIP  | 100nF,10%,16V,X7R,1608          | 1    | S.A    |        |
| C101    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C103    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C105    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C107    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C112    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C605    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C627    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C637    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| C647    | 2203-005249 | C-CER,CHIP  | 100nF,10%,50V,X7R,TP,1608,-     | 1    | S.A    |        |
| AC25    | 2203-005342 | C-CER,CHIP  | 82nF,10%,16V,X7R,TP,1608        | 1    | S.A    |        |
| SC17    | 2203-005809 | C-CER,CHIP  | 1000nF,10%,16V,X7R,TP,2012(T1   | 1    | S.A    |        |
| XC42    | 2402-001097 | C-AL,SMD    | 0.1UF,20%,50V,WT,TP,4.3X4.3X5.2 | 1    | S.A    |        |
| XC43    | 2402-001097 | C-AL,SMD    | 0.1UF,20%,50V,WT,TP,4.3X4.3X5.2 | 1    | S.A    |        |
| AC02    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| AC04    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C102    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C626    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C656    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| C907    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| CM12    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| CM24    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| CM29    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC04    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC12    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |
| DC13    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM   | 1    | S.A    |        |



| Loc.No. | Code No.    | Description | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|----------------------------------|------|--------|--------|
| DC24    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| DC30    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| DC43    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| NC04    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC29    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC30    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC31    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC32    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC33    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC34    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC38    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| XC39    | 2402-001128 | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.3X5.7MM    | 1    | S.A    |        |
| DC49    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM     | 1    | S.A    |        |
| EC47    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM     | 1    | S.A    |        |
| SC14    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM     | 1    | S.A    |        |
| SC21    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM     | 1    | S.A    |        |
| SC27    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM     | 1    | S.A    |        |
| SC43    | 2402-001129 | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM     | 1    | S.A    |        |
| EC42    | 2402-001174 | C-AL,SMD    | 220UF,20%,10V,WT,TP,8X6.3MM      | 1    | S.A    |        |
| C603    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| C622    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| C623    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| C636    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| C641    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| C655    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| C904    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| CM14    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| CM21    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| DC39    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| DC50    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| DC52    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| EC50    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| EC51    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| EC57    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| EC60    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| SC30    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| SC32    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| SC34    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| SC36    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| SC38    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| SC40    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| XC37    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| XC47    | 2402-001178 | C-AL,SMD    | 10UF,20%,16V,WT,TP,4.3X4.3X5.8MM | 1    | S.A    |        |
| C104    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| C108    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| C117    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| C118    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| C119    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| CM26    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| EC48    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| EC49    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| NC02    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| SC19    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| XC35    | 2402-001216 | C-AL,SMD    | 470uF,20%,16V,WT,TP,10.3x10.3x1  | 1    | S.A    |        |
| C602    | 2402-001222 | C-AL,SMD    | 3.3UF,20%,50V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C611    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C612    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C613    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C614    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C617    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C618    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C620    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C632    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C633    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C635    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C640    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C651    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |
| C653    | 2402-001226 | C-AL,SMD    | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8  | 1    | S.A    |        |

Electrical Part List

| Loc.No. | Code No.    | Description    | Specification                   | Q'ty | SA/SNA | Remark |
|---------|-------------|----------------|---------------------------------|------|--------|--------|
| C654    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C658    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C664    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C665    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C912    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| DC06    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| DC23    | 2402-001226 | C-AL,SMD       | 4.7UF,20%,35V,HR,TP,4.3X4.3X5.8 | 1    | S.A    |        |
| C604    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| C609    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| C610    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| CM23    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| DC09    | 2402-001238 | C-AL,SMD       | 1UF,20%,50V,HR,TP,4.3X4.3X5.2MM | 1    | S.A    |        |
| C106    | 2402-001254 | C-AL,SMD       | 10uF,20%,50V,WT,TP,6.3x5.2mm    | 1    | S.A    |        |
| C111    | 2402-001254 | C-AL,SMD       | 10uF,20%,50V,WT,TP,6.3x5.2mm    | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000125 | INDUCTOR-SMD   | 10uH,10%,2012                   | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000274 | INDUCTOR-SMD   | 2.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000392 | INDUCTOR-SMD   | 10uH,5%,4532                    | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-000398 | INDUCTOR-SMD   | 10uH,10%,3225                   | 1    | S.A    |        |
| T0052   | 2703-001070 | INDUCTOR-SMD   | 100uH,10%,4532                  | 1    | S.A    |        |
| T0052   | 2703-001070 | INDUCTOR-SMD   | 100uH,10%,4532                  | 1    | S.A    |        |
| T0052   | 2703-001245 | INDUCTOR-SMD   | 8.2uH,10%,2012                  | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| T0052   | 2703-001802 | INDUCTOR-SMD   | 33uH,20%,2012                   | 1    | S.A    |        |
| SX01    | 2801-001473 | CRYSTAL-SMD    | 4MHZ,50ppm,28-AAN,18pF,150oh    | 1    | S.A    |        |
| EX01    | 2801-004004 | CRYSTAL-SMD    | 20.25MHZ,20ppm,28-AAN,13pF,2    | 1    | S.A    |        |
| XM01    | 2801-004117 | CRYSTAL-SMD    | 6MHZ,30PPM,28-ABX,20PF,150OH    | 1    | S.A    |        |
| X601    | 2801-004300 | CRYSTAL-SMD    | 18.432MHz,30ppm,28-ABX,13pF,    | 1    | S.A    |        |
| F103    | 2901-000226 | FILTER-EMI SMD | 25V,0.3A,-,100pF,3.2x1.25       | 1    | S.A    |        |
| T0568   | 3301-001082 | BEAD-SMD       | 60ohm,3225,1500mA,TP,43ohm/40MH | 1    | S.N.A  |        |



| Loc.No. | Code No.    | Description | Specification                    | Q'ty | SA/SNA | Remark |
|---------|-------------|-------------|----------------------------------|------|--------|--------|
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001082 | BEAD-SMD    | 60ohm,3225,1500mA,TP,43ohm/40MH  | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,0.1ohm      | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,0.1ohm      | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,0.1ohm      | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,0.1ohm      | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,0.1ohm      | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,0.1ohm      | 1    | S.N.A  |        |
| T0568   | 3301-001324 | BEAD-SMD    | 15ohm,2012,600mA,TP,,0.1ohm      | 1    | S.N.A  |        |
| IC125   | AA13-00113A | IC ASIC     | SDP41,DNIE lite,208,1.8,0to +70, | 1    | S.A    |        |
| T0077   | AA41-01116C | PCB MAIN    | WS32Z30,FR-4,4,C,1.6T,245*180,S  | 1    | S.N.A  |        |

### ASSY P/MATERIAL

|       |             |                 |                                   |       |       |  |
|-------|-------------|-----------------|-----------------------------------|-------|-------|--|
| M0113 | AA92-10866B | ASSY P/MATERIAL | 32Z30                             | 1     | S.N.A |  |
| T0376 | 6902-000001 | BAG AIR         | LDPE,T0.2,L1800,W1000,TRP,,,LDPE  | 0.015 | S.N.A |  |
| T0524 | 6902-000007 | BAG PE          | HDPE/NITRON/HDPE,T0.015/T0.5/T0.0 | 1     | S.N.A |  |
| T0376 | 6902-000061 | BAG AIR         | LDPE,T0.2,L1000,W500,TRP,,,       | 0.08  | S.N.A |  |
| T0214 | AA60-40006A | PIN-STAPLE      | AUTO,33X17.8X2.4,H18,33X17.8X     | 12    | S.N.A |  |
| T0172 | AA69-02609A | BAND-PP         | W18,CLEA,1G                       | 5     | S.N.A |  |

### ASSY ACCESSORY

|       |             |                     |                                   |   |       |  |
|-------|-------------|---------------------|-----------------------------------|---|-------|--|
| M0045 | AA92-11113A | ASSY ACCESSORY      | WS32Z30HEAXSAP,S62A,OZ            | 1 | S.N.A |  |
| T0524 | 6902-000009 | BAG PE              | HDPE,T0.03,L400,W240,TRP,8,2,PE M | 1 | S.N.A |  |
| T0074 | AA59-00357C | REMOCON             | Negotiator,TM76B,200*54*30,S3C18  | 1 | S.A   |  |
| T0119 | AA09-00371A | IC MICOM            | SZTM-839C R-52MX,28PIN,16KBYTE,   | 1 | S.A   |  |
| T0122 | 2802-000194 | RESONATOR-CERAMIC   | 8MHz,1.0%,TP,8.5x4.5x5            | 1 | S.A   |  |
| M0156 | AA68-03557A | MANUAL USERS-01     | Z30,SAMSUNG,Eng,Southeas          | 1 | S.N.A |  |
| 0     | AA68-03242G | MANUAL-SAFETY GUIDE | All Model,SAMSUNG,En              | 1 | S.N.A |  |

### ASSY COVER FRONT

|         |             |                    |                               |      |       |  |
|---------|-------------|--------------------|-------------------------------|------|-------|--|
| M0001   | AA90-05299K | ASSY COVER FRONT   | WS32Z30HEAXSAP                | 1    | S.N.A |  |
| M0081   | 6003-001026 | SCREW-TAPTITE      | RH,+,B,M4,L15,ZPC(BLK),SWR    | 10   | S.N.A |  |
| M0081   | 6003-001026 | SCREW-TAPTITE      | RH,+,B,M4,L15,ZPC(BLK),SWR    | 2    | S.N.A |  |
| M0081   | 6003-001026 | SCREW-TAPTITE      | RH,+,B,M4,L15,ZPC(BLK),SWR    | 2    | S.N.A |  |
| M0081   | 6003-001268 | SCREW-TAPTITE      | TH,+,B,M4,L12,ZPC(YEL),SWR    | 2    | S.N.A |  |
| M0081   | 6003-001268 | SCREW-TAPTITE      | TH,+,B,M4,L12,ZPC(YEL),SWR    | 2    | S.N.A |  |
| M0081   | 6003-001268 | SCREW-TAPTITE      | TH,+,B,M4,L12,ZPC(YEL),SWR    | 2    | S.N.A |  |
| M0081   | 6003-001268 | SCREW-TAPTITE      | TH,+,B,M4,L12,ZPC(YEL),SWR    | 2    | S.N.A |  |
| M0081   | AA60-10002A | SCREW-TAPTITE      | -,ZPC(YEL),M4,L12,RH,+,-,-    | 4    | S.N.A |  |
| CRT+C/F | AA60-10050V | BOLT-HEX           | -,SWRCH18A,M6,L30,HH,+,WC,-,Z | 4    | S.N.A |  |
| T0609   | AA63-60004Z | SPACER-GUM,CRT     | ALL MODEL,NTR RUBBER,-,-,     | 4    | S.N.A |  |
| T0175   | AA96-02859A | ASSY SPEAKER P     | 8ohm,Core,Oz,10W,800/500m     | 1    | S.A   |  |
| T0382   | BP61-00495C | HOLDER-CARE        | PJT,ACRYL-FOAM,T0.25,W30.0mm  | 0.32 | S.N.A |  |
| T0003   | AA96-02867M | ASSY COVER P-FRONT | 32Z30,ASIA,HIPS HB,GR         | 1    | S.A   |  |
| M0081   | 6003-001019 | SCREW-TAPTITE      | RH,+,B,M4,L12,ZPC(BLK),SWR    | 12   | S.N.A |  |
| M0081   | 6003-001019 | SCREW-TAPTITE      | RH,+,B,M4,L12,ZPC(BLK),SWR    | 1    | S.N.A |  |
| CIS7    | AA61-60003J | SPRING ETC-CS      | -,SUS304,-,-,OD6,N7,OD6,-,    | 1    | S.N.A |  |
| M0112   | AA63-00958F | COVER-FRONT        | 32Z30,HIPS,HB,GR503,SV012P+B  | 1    | S.N.A |  |
| T0750   | AA63-00962H | COVER-MASK         | 32Z30,HIPS,HB,BLK,BKM-1326(R1 | 1    | S.N.A |  |
| T0057   | AA64-01062B | BADGE-BRAND        | ALL,AL,T1.5,10.6,L65,BLK.SIL  | 1    | S.A   |  |
| T0299   | AA64-04191A | WINDOW-RMC LED     | 32Z30,PC CLEAR                | 1    | S.N.A |  |
| T0382   | BP61-00509C | HOLDER-CARE        | PJT,ACRYL-FOAM,T0.25,W20.0mm  | 0.28 | S.N.A |  |
| T0023   | BP64-00326A | KNOB POWER         | 43T9,ABS,HB,BLK,SVM3012       | 1    | S.N.A |  |

Electrical Part List

| Loc.No.                | Code No.    | Description                 | Specification                   | Q'ty | SA/SNA | Remark |
|------------------------|-------------|-----------------------------|---------------------------------|------|--------|--------|
| CIS3                   | BP64-00331B | DECORATION-POWER            | PJTV,ABS,HB,GR503,SVM30         | 1    | S.N.A  |        |
| T0569                  | AA61-01433A | SUPPORT-CRT                 | 32Z30(SLIM),HIPS,T2.0,GR503     | 2    | S.A    |        |
| <b>ASSY COVER REAR</b> |             |                             |                                 |      |        |        |
| M0002                  | AA90-05300F | ASSY COVER REAR             | WS32Z30HEAXSMA                  | 1    | S.N.A  |        |
| T0069                  | AA60-00091J | SPACER-FELT                 | -,FELT,330X10,-,BLK,T0.5,-      | 3    | S.N.A  |        |
| M0006                  | AA63-00959A | COVER-REAR                  | 32Z30(HQ),HIPS,V0,BK500         | 1    | S.A    |        |
| T0522                  | AA65-30008A | CLAMPER CORE-CORD           | -,PE,HB,-,BLK,-                 | 1    | S.N.A  |        |
| T0578                  | AA64-04200R | INLAY AV                    | 32Z30,PS,T0.3,SHEET,BLK,SI411DG | 1    | S.N.A  |        |
| <b>ASSY CPT</b>        |             |                             |                                 |      |        |        |
| T0521                  | AA91-07368U | ASSY CPT                    | W76QFV891X002,0MG,32            | 1    | S.N.A  |        |
| T0090                  | AA27-00345A | COIL DEGAUSSING-TILT        | 32,51.0mH,300Turns,             | 1    | S.A    |        |
| T0527                  | AA61-01373A | HOLDER-D COIL               | 29K5,NYLON 66                   | 4    | S.N.A  |        |
| CIS1                   | AA65-00056A | CLAMPER CORE-WIRE           | 32Z30,NYLON-66,V0,NTR           | 4    | S.N.A  |        |
| T0603                  | AA96-02967A | ASSY TBC WIRE P             | K62A,32,NTSC,4P                 | 1    | S.N.A  |        |
| △ T0063                | AA03-00429A | CRT COLOR                   | W76QFV891X102,0MG,0.252,13.9,0  | 1    | S.A    |        |
| T0527                  | AA65-30017A | CLAMPER CORE-D,COIL         | -,NYLON-66,V0,-,NTR,            | 5    | S.N.A  |        |
| T0089                  | AA27-00346B | COIL DEGAUSSING             | CORE(K62A),23.60mH,150TS        | 1    | S.A    |        |
| <b>ASSY FIXING</b>     |             |                             |                                 |      |        |        |
| T0892                  | AA91-08221A | ASSY FIXING                 | CP2/NO(4.0),H/C300,S62A,OZ      | 1    | S.N.A  |        |
| M0081                  | 6003-001023 | SCREW-TAPTITE               | PWH,+,B,M3,L10,ZPC(YEL),SW      | 2    | S.N.A  |        |
| M0081                  | 6003-001023 | SCREW-TAPTITE               | PWH,+,B,M3,L10,ZPC(YEL),SW      | 2    | S.N.A  |        |
| M0081                  | 6003-001023 | SCREW-TAPTITE               | PWH,+,B,M3,L10,ZPC(YEL),SW      | 3    | S.N.A  |        |
| M0081                  | 6003-001026 | SCREW-TAPTITE               | RH,+,B,M4,L15,ZPC(BLK),SWR      | 4    | S.N.A  |        |
| M0081                  | 6003-001026 | SCREW-TAPTITE               | RH,+,B,M4,L15,ZPC(BLK),SWR      | 2    | S.N.A  |        |
| T0070                  | AA61-01411A | HOLDER-CHASSIS              | 32Z30,HIPS VO,G4309             | 1    | S.N.A  |        |
| T0010                  | AA61-01412A | HOLDER-SUB PCB              | 32Z30,HIPS VO,G4309             | 1    | S.N.A  |        |
| T0130                  | AA96-03162A | ASSY COVER P-TERMINAL BOARD | 32Z30,ASIA,H                    | 1    | S.N.A  |        |
| T0071                  | AA64-04261A | INLAY-TERMINAL              | 32Z30,PS,T0.5,SHEET             | 1    | S.N.A  |        |
|                        | AA65-00051A | TERMINAL-BOARD              | 32Z30(PAL),HIPS VO,BLK          | 1    | S.N.A  |        |
| △ T0066                | AA96-20109C | ASSY POWER CORD             | -,CP2/NO(4.0),H/C300,KKP        | 1    | S.A    |        |
|                        | 3811-001609 | WIRE-PVC CU                 | BCWA,300V,ROLL,-,#22,BLK        | 0.15 | S.N.A  |        |
| T0268                  | AA39-10006X | CBF-POWER CORD              | -,KKP419C,KLCE-2F,2.286MT       | 1    | S.A    |        |
| T0010                  | AA61-20284A | HOLDER                      | P-CORD,PP,-,-,BLK,VO,KE-002     | 1    | S.N.A  |        |
| CIS1                   | AA65-00029A | CLAMPER CORE-WIRE           | PJTV,NYLON66,OD24,DONG          | 2    | S.N.A  |        |
| CIS1                   | AA65-30110A | CLAMPER CORE-WIRE           | ALL MODEL,NYLON 66,V2,          | 1    | S.N.A  |        |

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## 6. Troubleshooting

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### 6-1 Checkpoints by Error Mode

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- Power LED: Check that the LED works when turning the Master Switch ON/OFF
  
- LED Indicators: See table 6-3-1 Basic Troubleshooting: LED Diagnosis on the Front Panel.
  
- In case of a power failure or abnormal screen, check the following items.
  - 1) Check that the power cord is correctly connected to a 220V wall outlet.
  - 2) Check that the Master Switch has been pressed.
  - 3) Check that the transmitter is turned on.
  - 4) Check that transmitter device selection is set to TV.
  - 5) Check that the signal cable is properly connected.
  - 6) Check that channel setting has been set.

### 6-1-1 Basic Approaches for Troubleshooting

■ Troubleshooting Mechanism :

- The System Board has the last output terminal, DN1e (SPD41), which shows the internal Test pattern.
- The Power Board supplies power to the Deflection/Asytem Board.
- The System Board receives all signal inputs, the signal-processed signal is sent to CRT Ass'y. Deflection and focus are controlled by the Deflection Board.

■ Troubleshooting by Modules

1) Enter Service Mode

(In SET STANDBY status, if you press "Info", "Menu", "Mute" and " Power" in sequence on the remote control, the screen is turned on and the Service Mode screen appears.)

2) Check if the System Board is out of order.

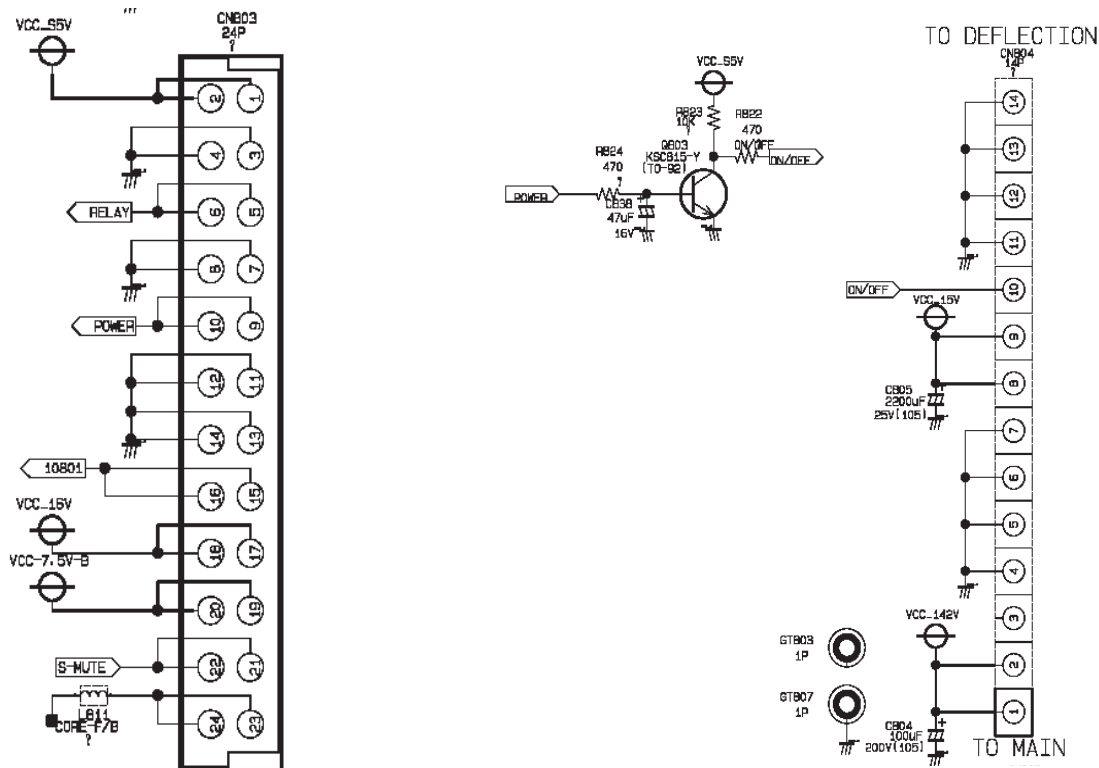
Press OPTION → TEST PATTERN → Right direction key:

The COLOR BAR, BLACK pattern and WHITE pattern are displayed on the screen.

If the pattern is not displayed or is displayed abnormally, the DN1e IC (SPD41) or the System Board is out of order.

3) Check if the Power Board, which supplies power to the System Board and the Deflection Board, is out of order.

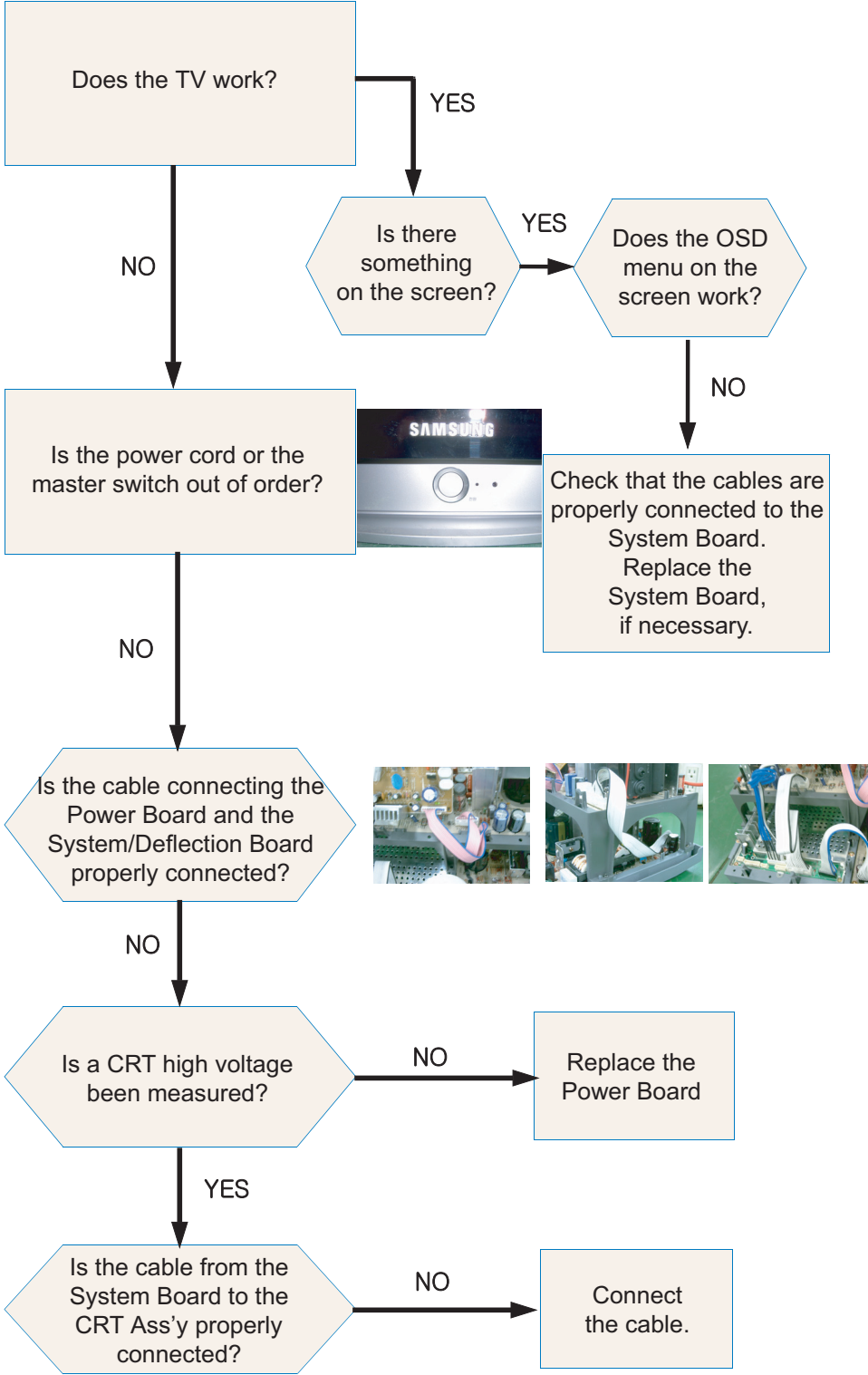
If you cannot turn the screen on by pressing the POWER ON/OFF button or the screen repeatedly turns on and off when pressing the POWER ON/Off button, check if the Power Board is out of order. (Refer to the circuit diagram)



4) Check if the Deflection Board is out of order.

When the screen is not properly displayed and the left or right side of the picture is shrunk, or the top or bottom of the screen is expanded or shrunk, check if the Deflection Board is out of order.

6-1-2 Flow Chart for Malfunction



## 6-2 Trouble-shooting with New Features

### 6-2-1 Installation & Connection

| Problem                               | Solution   |
|---------------------------------------|--|
| The power does not turn on.           | Check if the power cord is properly connected.                   |
| Air broadcasting does not work.       | Check if the antenna is properly installed.                      |
| Cable broadcasting does not work.     | Subscribe to a local cable broadcasting firm and get support.    |
| Satellite broadcasting does not work. | Install a satellite antenna (Parabola) and connect it to the TV. |

### 6-2-2 Menu & Remote Control

| Problem  | Solution  |
|--|---|
| The remote control does not work.                  | <ul style="list-style-type: none"> <li>■ Press the Select Device button to select the TV or external device.</li> <li>■ Replace the battery of the remote control with a new one.</li> <li>■ Insert the battery making sure the polarity (+,-) is correct.</li> <li>■ Check if the angle or the distance is sufficient, or if there is any interference between the product and the remote control.</li> <li>■ Make sure the user has pressed the correct button.</li> <li>■ To avoid direct sunlight to the receiving panel of the TV, remove any indoor lighting or change the location of the TV.</li> <li>■ Check if the power switch at the back left of the TV is turned on.</li> </ul> |
| Cannot change the channel with the remote control. | <ul style="list-style-type: none"> <li>■ Press the Select Device button to select the TV.</li> <li>■ Change the channel using the remote control of the cable or satellite receiver.</li> </ul>   |
| Cannot select an A/V channel.                      | Press the TV/AV button and check if the AV item is grayed out. When the AV item is grayed out, you cannot select an A/V channel. Check if the connector is properly connected.  |
| Cannot select a menu.                              | Check if the menu is grayed out. If a menu is grayed out, it cannot be selected.  |



### 6-2-3 Screen

| Problem   | Solution   |
|---|--|
| The screen is black and there is no sound.                                      | <ul style="list-style-type: none"> <li>■ Check if the power cord is properly connected.</li> <li>■ Turn on the power.</li> <li>■ Select an AV channel that corresponds to the external device.</li> </ul>    |
| Only the screen is blank/it is dark or too bright.                              | Adjust the screen brightness.  |
| The screen is blue/the external channel is not displayed.                       | <ul style="list-style-type: none"> <li>■ Check if the connector is properly installed.</li> <li>■ Select an AV channel that corresponds to the external device.</li> </ul>                                   |
| The screen overlaps (double/triple).  | <ul style="list-style-type: none"> <li>■ Check if the antenna is properly installed.</li> <li>■ Adjust the position, angle or direction of the antenna.</li> </ul>   |
| The screen is snowy or unclear. The picture quality gets worse when it is windy | <ul style="list-style-type: none"> <li>■ Check if the antenna has been bent or moved by the wind.</li> <li>■ Check the antenna for its lifetime. (Normally 3 - 5 years, 1-2 years near the coast)</li> </ul> |
| Dotted or semi-dotted lines are displayed on the screen.                        | Install the antenna as far away from the road as possible.   |
| The screen is black and white.  | <ul style="list-style-type: none"> <li>■ Adjust the color density.</li> <li>■ Check if the connector is properly installed.</li> </ul>   |
| The colors of the screen are odd/strange.                                       | Adjust the color tones.  |
| Unusual lines appear on the screen.   | Keep the antenna away from the power cord or connectors if possible.   |
| Unusual lines appear on the screen when watching or recording to video.         | Keep the video player as far away from the TV as possible.   |

### 6-2-4 Sound

| Problem                                | Solution   |
|--|--|
| There is no sound.                     | <ul style="list-style-type: none"> <li>■ Increase the volume.</li> <li>■ Press the Mute button.</li> </ul>             |
| The sound is very low.                 | <ul style="list-style-type: none"> <li>■ Increase the volume.</li> <li>■ Set the auto volume control to ON.</li> </ul> |
| There is a lot of noise.               | Keep the antenna away from the power cord or connectors if possible.   |
| The selected language does not appear. | Press the Multiplex button to select the TV.   |

### 6-2-5 Channel

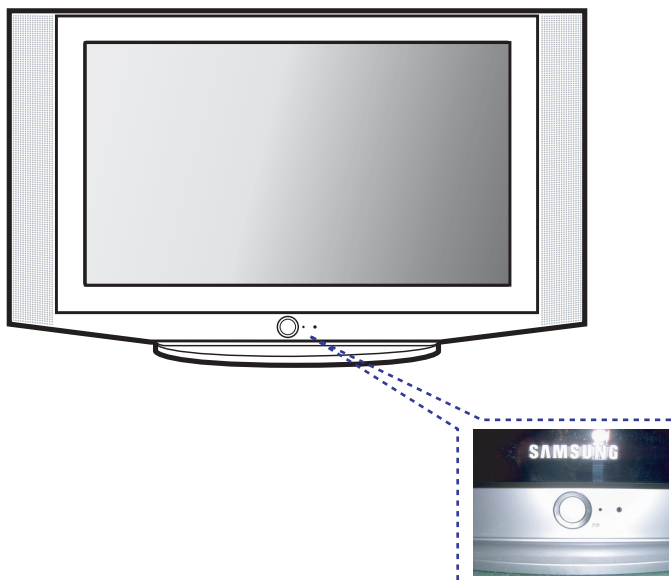
| Problem  | Solution   |
|--|--|
| There are no channels available.                 | <ul style="list-style-type: none"> <li>■ Check if the antenna is properly installed.</li> <li>■ Press the Auto Channel button to store channels.</li> <li>■ Contact your local broadcasting service station.</li> </ul>  |
| Some channels are not available.                 | <ul style="list-style-type: none"> <li>■ Adjust the position, angle or direction of the antenna.</li> <li>■ Activate the Reception Sensitivity Boost feature.</li> <li>■ Contact your local broadcasting service station.</li> <li>■ Use the number keys to select a specific channel and press Store/Clear to memorize it.</li> </ul> |
| Only the UHF (14-69) channels are not available. | Check if the antenna is able to receive UHF signals.   |

### 6-2-6 Others

| Problem  | Solution  |
|--|---|
| The TV makes a noise as if something is dropping inside. | This noise may occur when the plastic material inside the TV expands or contracts according to the seasonal temperature or humidity. This is like the noise from a furniture/cabinet/sink unit, and there is no need for concern. |

## 6-3 Troubleshooting Procedures by Error Modes

### 6-3-1 Basic Troubleshooting: Diagnosis of LED on the Front Panel



- : Light is On
- ◐ : Light is Blinking
- : Light is Off

| Power     | Description  |
|-----------|--|
| ○         | This happens when the Master Switch is not pressed or the power cord is disconnected.  |
| ●         | This happens when the power cord is connected and the power switch is pressed.<br>If you cannot set the power switch on by pressing it, check the power switch Ass'y.  |
| ○ → ◐ → ● | If you press the power switch of the transmitter or the channel key on the remote control when in St-BY status, the screen will be turned on.<br>If the LED blinks and the screen is not displayed, check the connection between the Power and the System Board. |

### 6-3-2 Troubleshooting by the Checksum

- Diagnosis of trouble by the checksum is neither reliable nor convenient.  
You can only use the checksum of the current direct-view TV to determine whether the software is corrupted or not.  
The Checksum value is determined according to the version of the software loaded on the set.  
Therefore, you can determine whether the software has been properly downloaded, if you know the correct checksum for that version of the software.

You can check the checksum according in the following order.

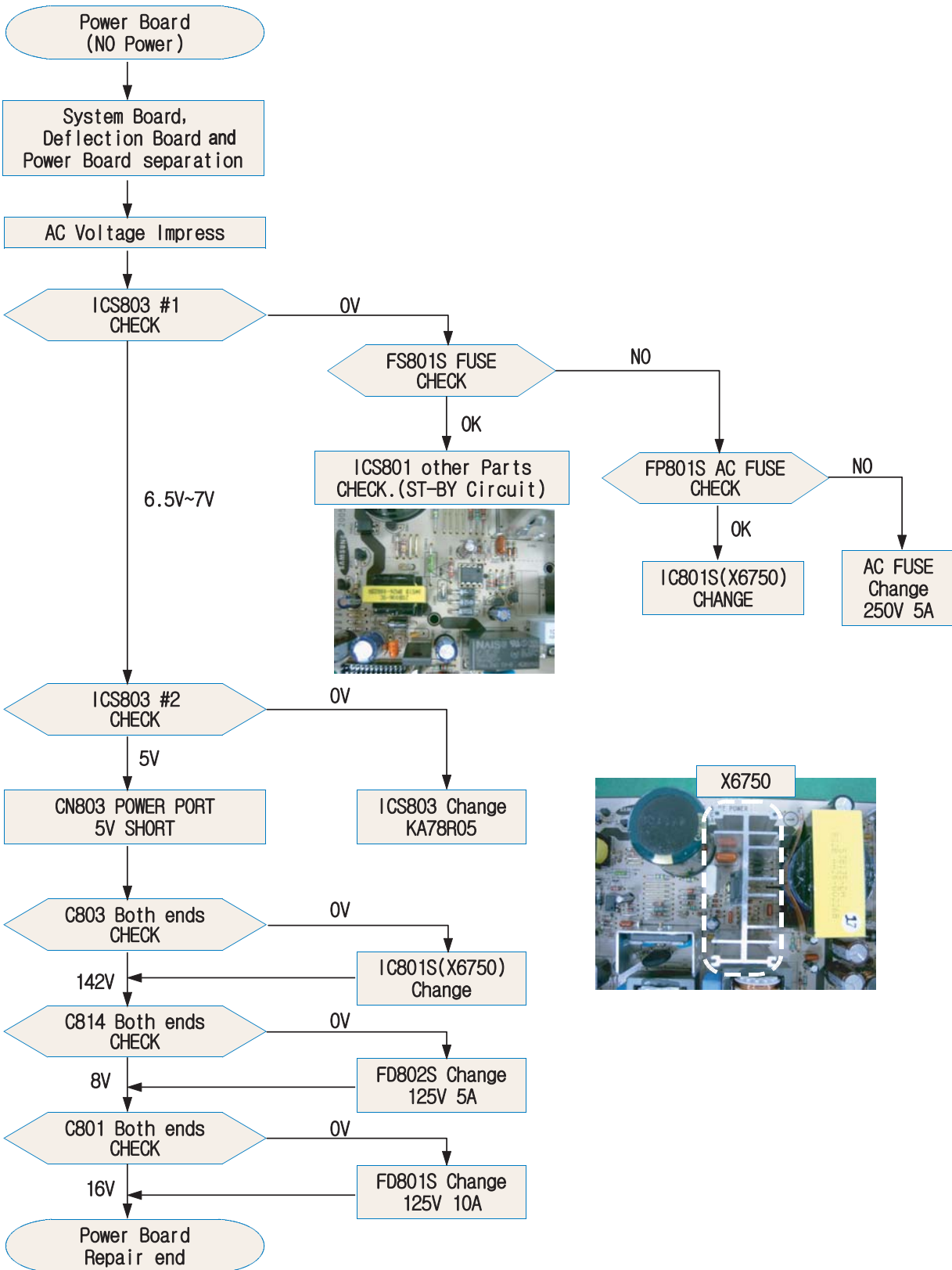
Factory Mode → Checksum → Right Button → Calculate Checksum → Output Checksum (e.g. 0xab2b)

- Checksum Examples
  - T\_COREOAKR1\_1010 : checksum = 0xab2b
  - T\_COREOAKR1\_1014 : checksum = 0x4faa

## 6-4 Troubleshooting Procedures by ASS'Y

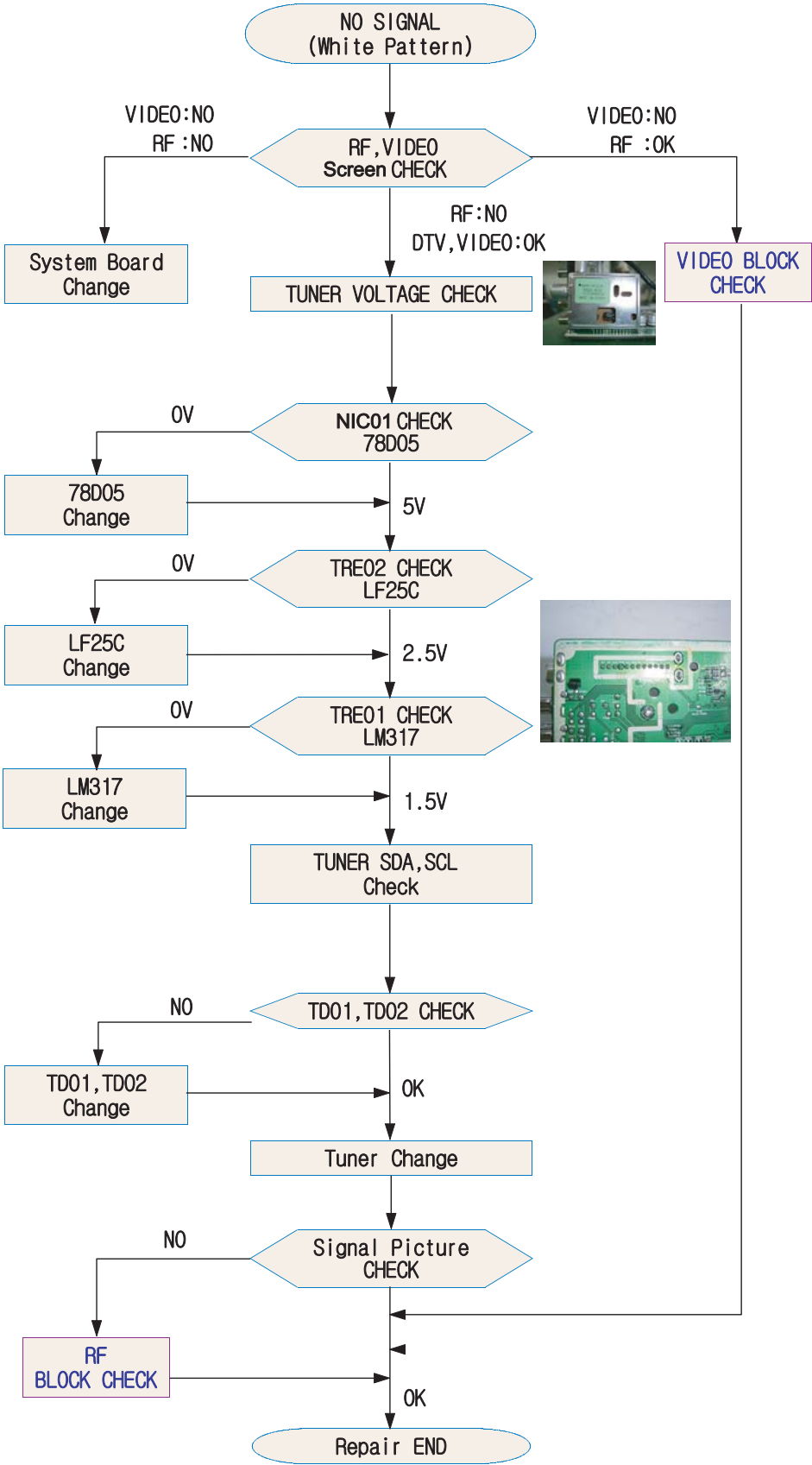
### 6-4-1 NO Power

#### 1. Power Board Check

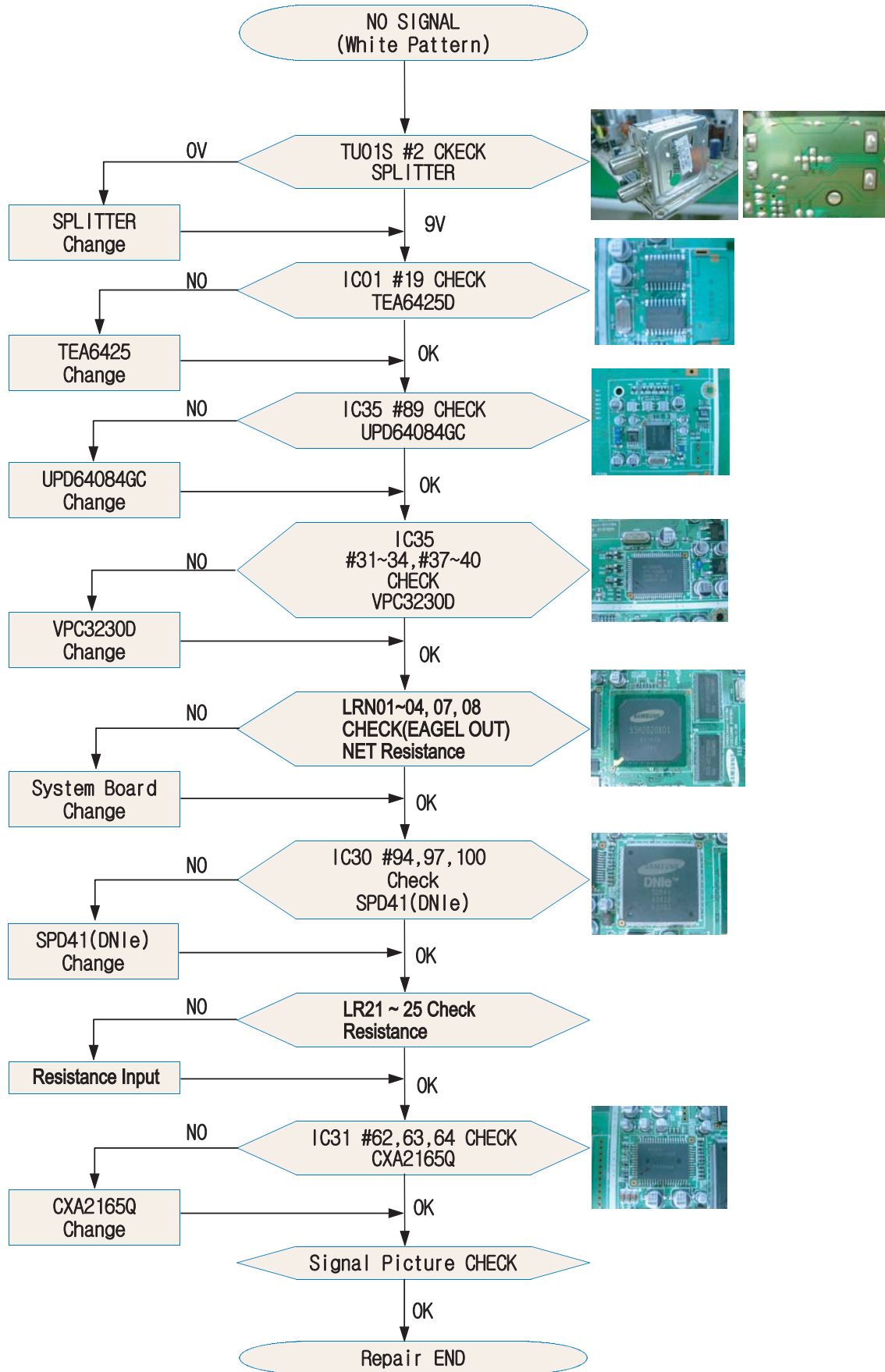


### 6-4-2 NO Signal

1. When the Power Board is normal

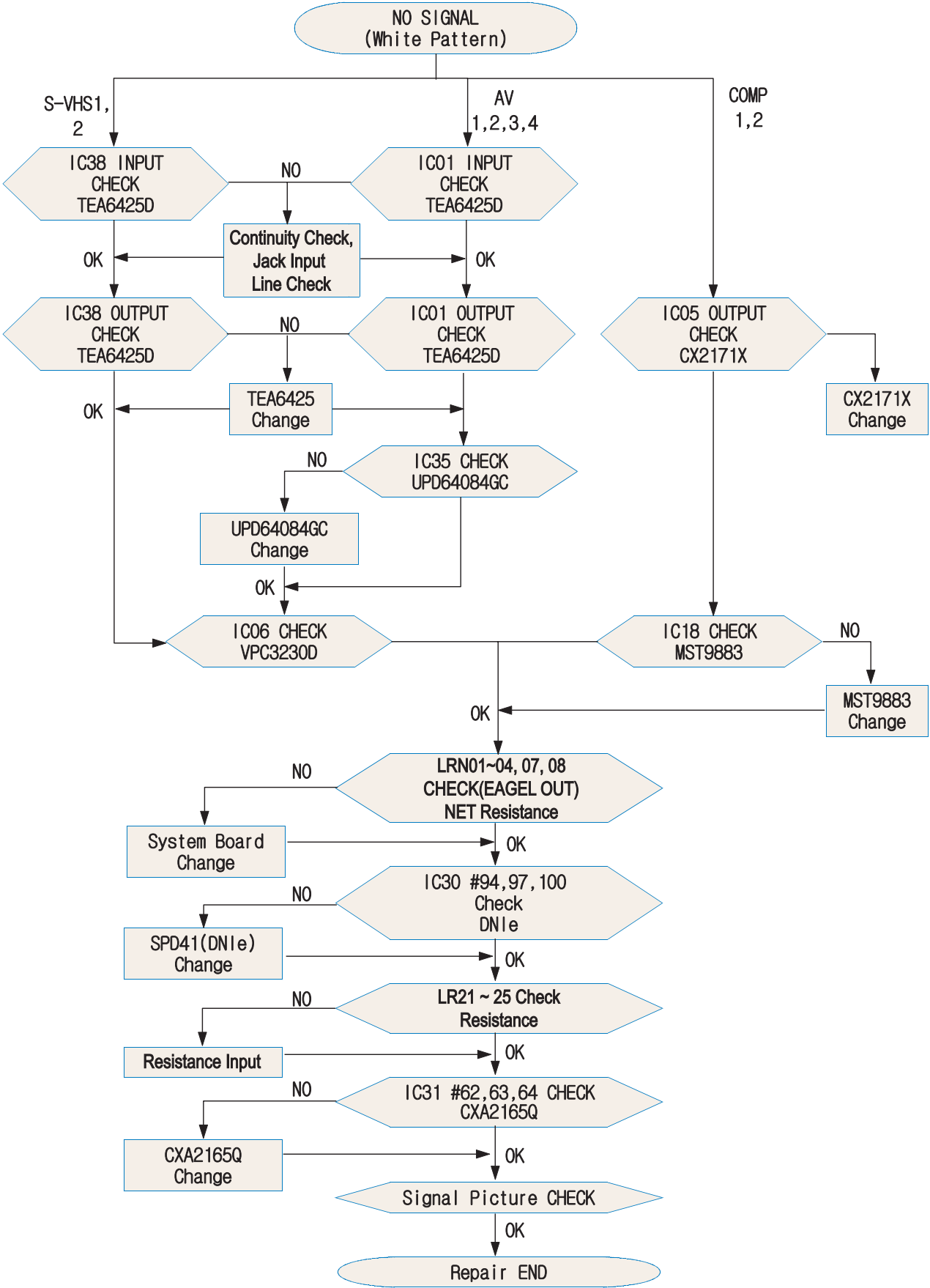


2. When there is no RF signal output (RF Block Check)

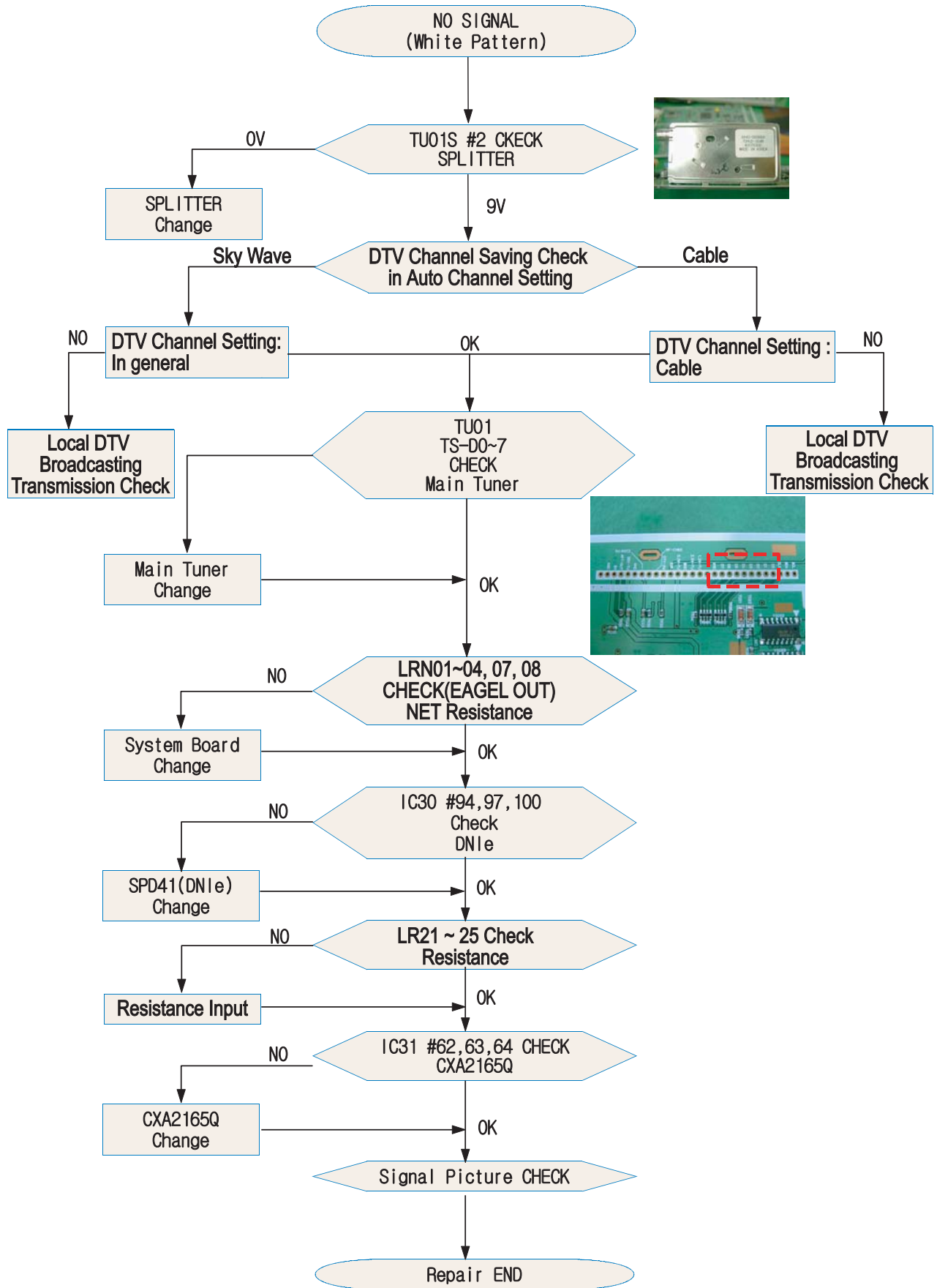




3. When there is no Video signal output (Video Block Check)

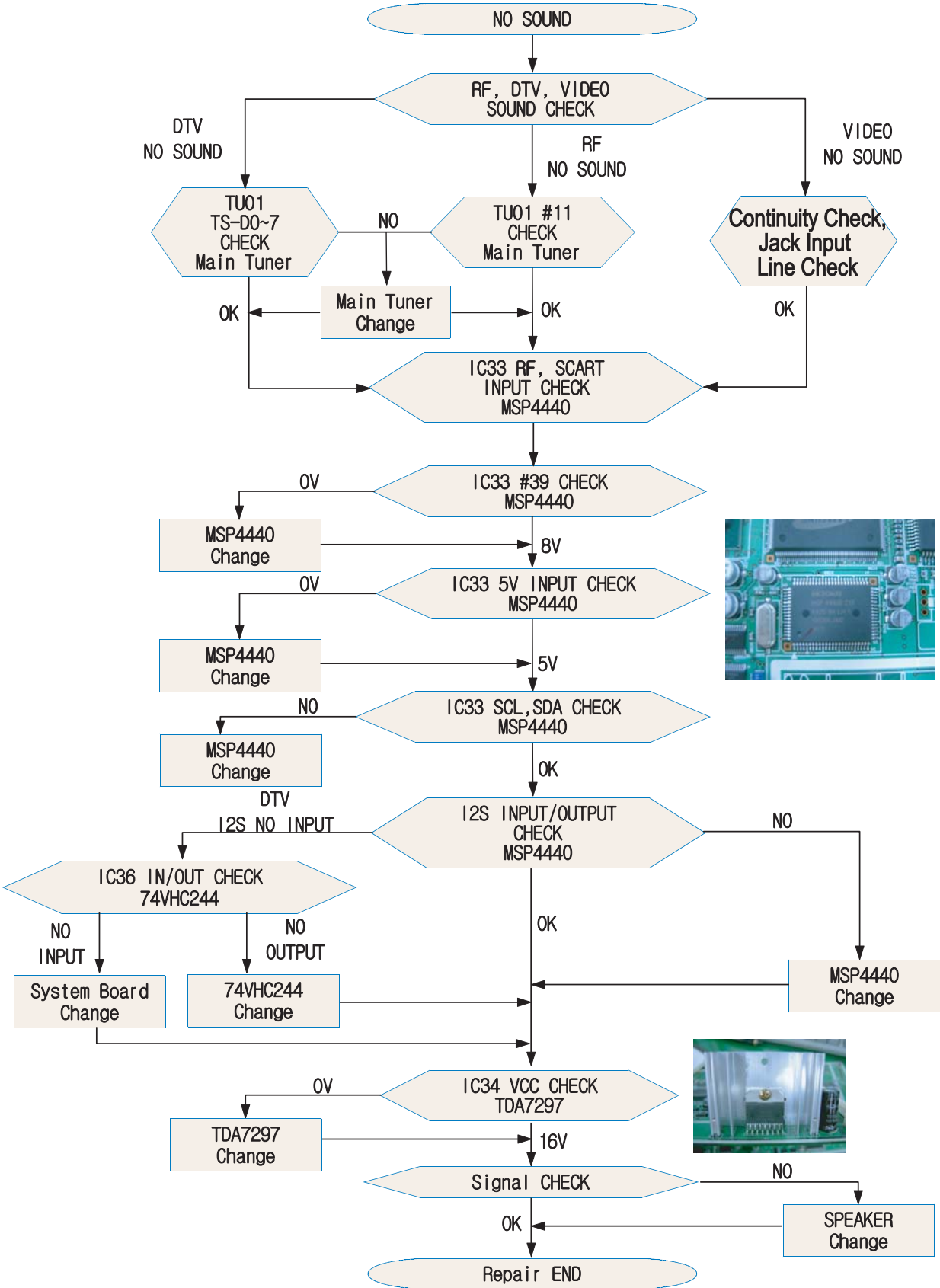


4. When there is no DTV signal output (DTV Block Check)



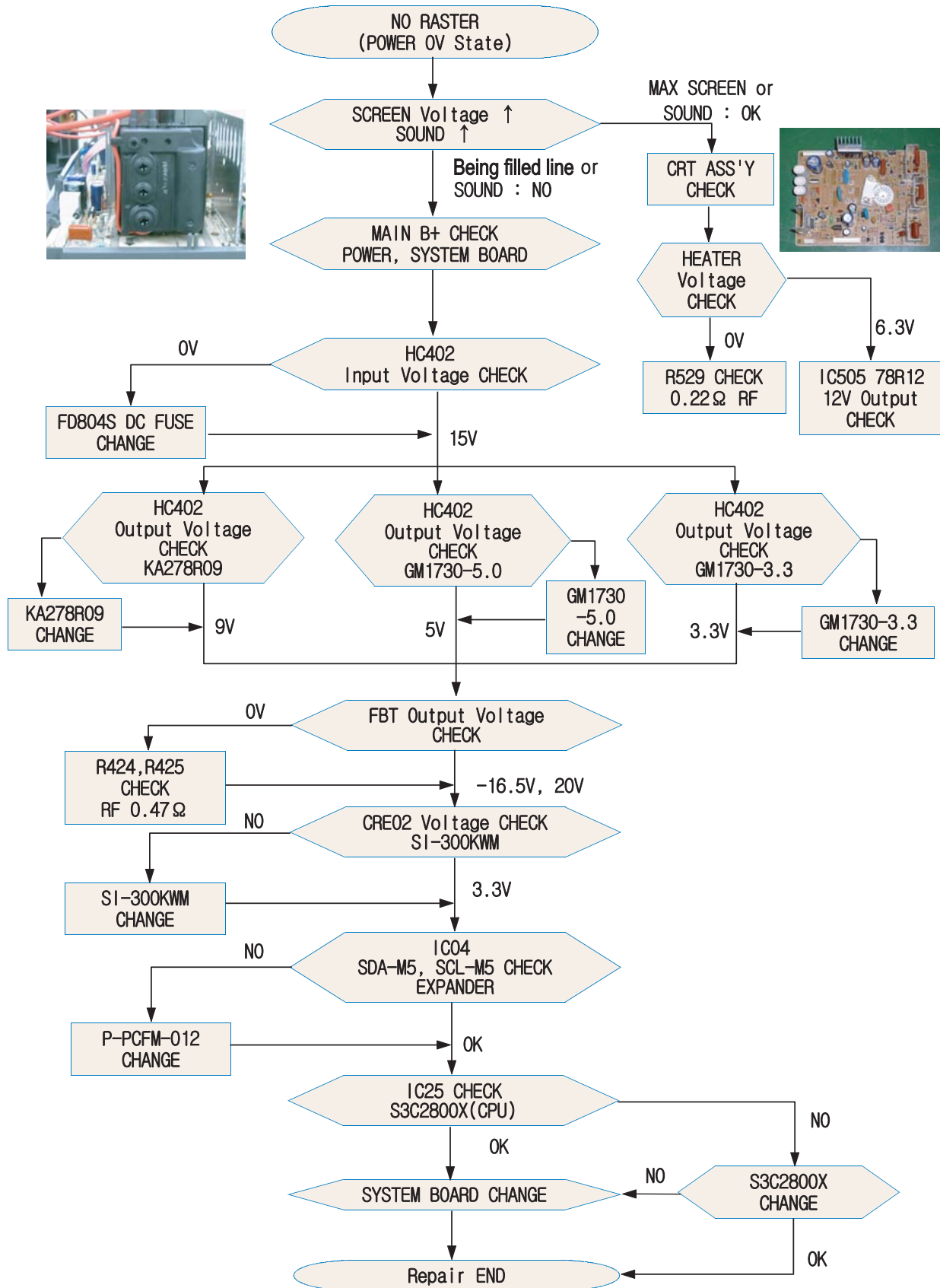
### 6-4-3 No Sound

1. When the Power Board is normal



### 6-4-4 No Raster

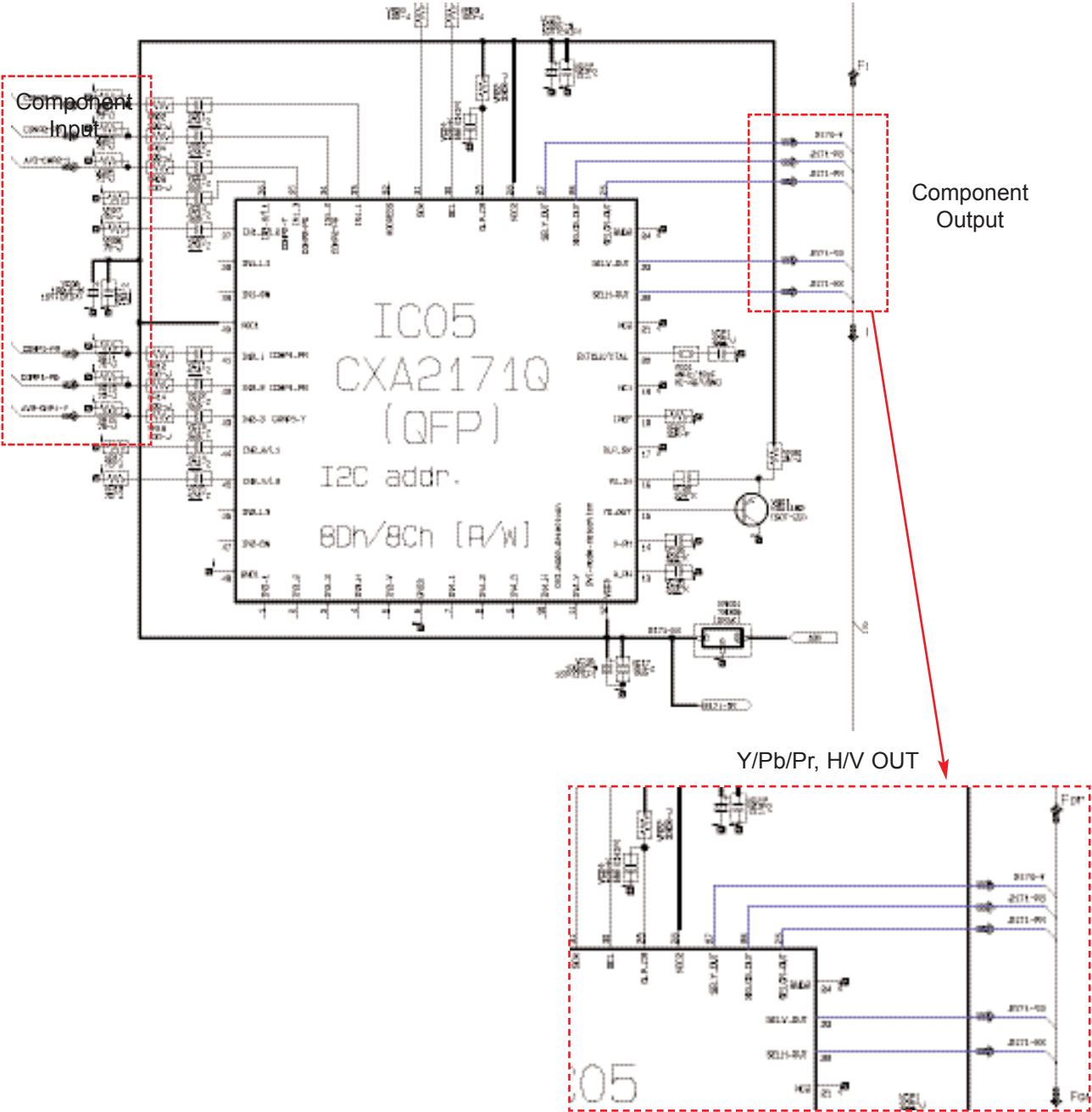
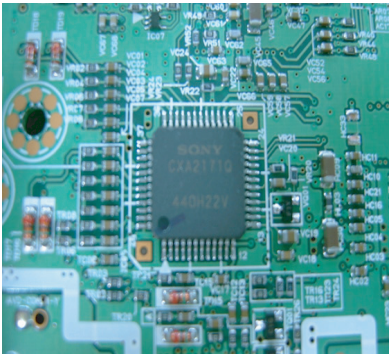
1. When the Power Board is normal



# 6-5 Troubleshooting by Blocks

## 6-5-1 Troubleshooting System Boards

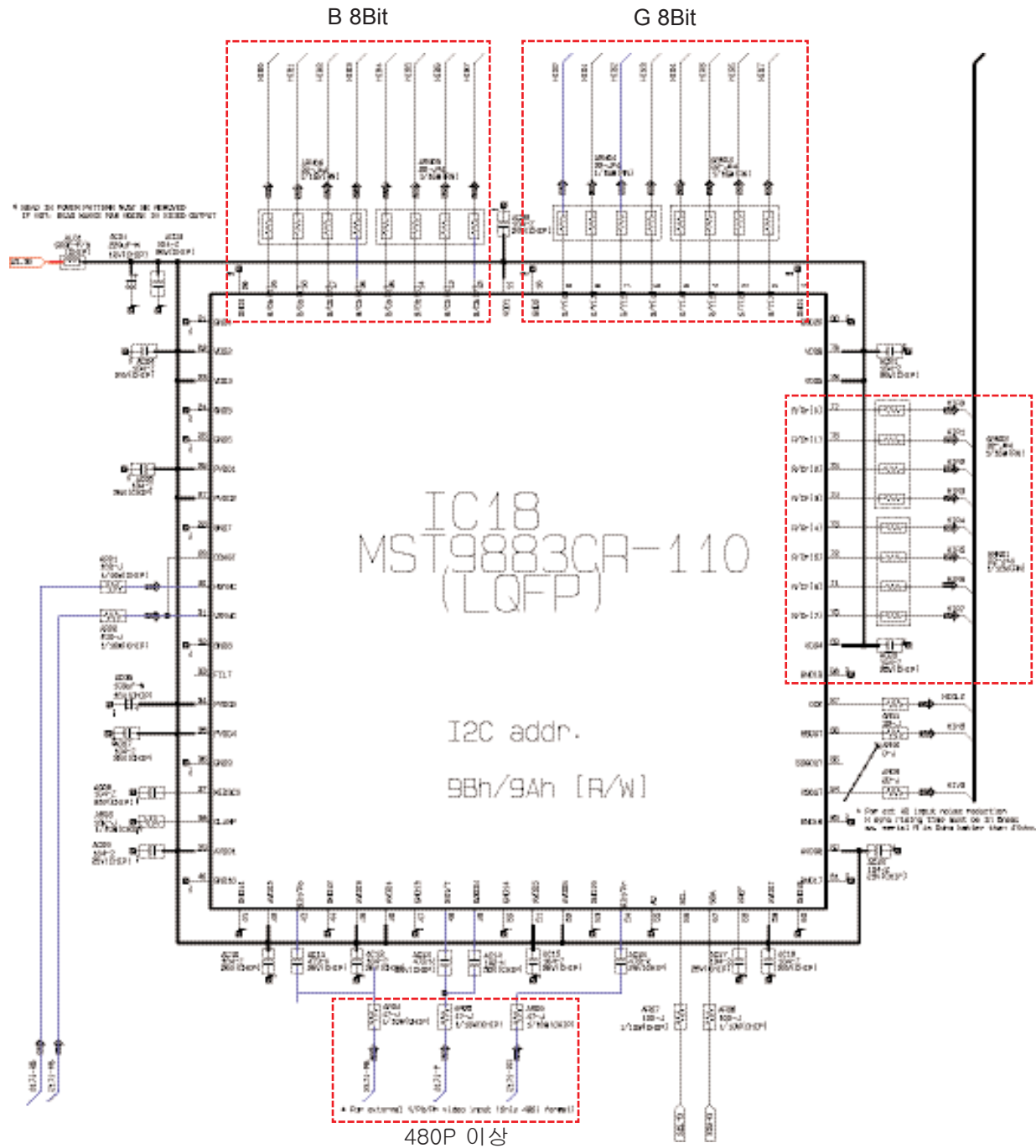
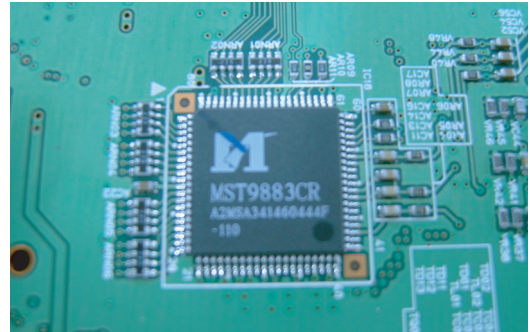
- 1. CXA2171Q (Component Switching) Diagnosis
  - Component 1 and 2 input operation (Y: 0.7Vp-p)
  - IC distinguishes between the SD/HD (31Khz, 33Khz) signal formats.
  - Market defect cases: The screen is pushed to the right side or the picture is divided into two on the screen.
- Power supply: 5V
- Check for input defects: Y/Pb/Pr signal
- Check for output defects: Y/Pb/Pr, H/V signal



## 2. MST9883 Diagnosis

This receives the Component signal, which is equal to or higher than 480P, detects Sync and decodes the signal. If the signal color is out of order or noise appears in the Color Bar pattern, check the R/G/B Digital output cable.

- Power supply : 3.3V
- Check for input defects : 480P, 720P, 1080i Y/Pb/Pr signal
- Check for output defects : R/G/B 24BIT H/V/Clock

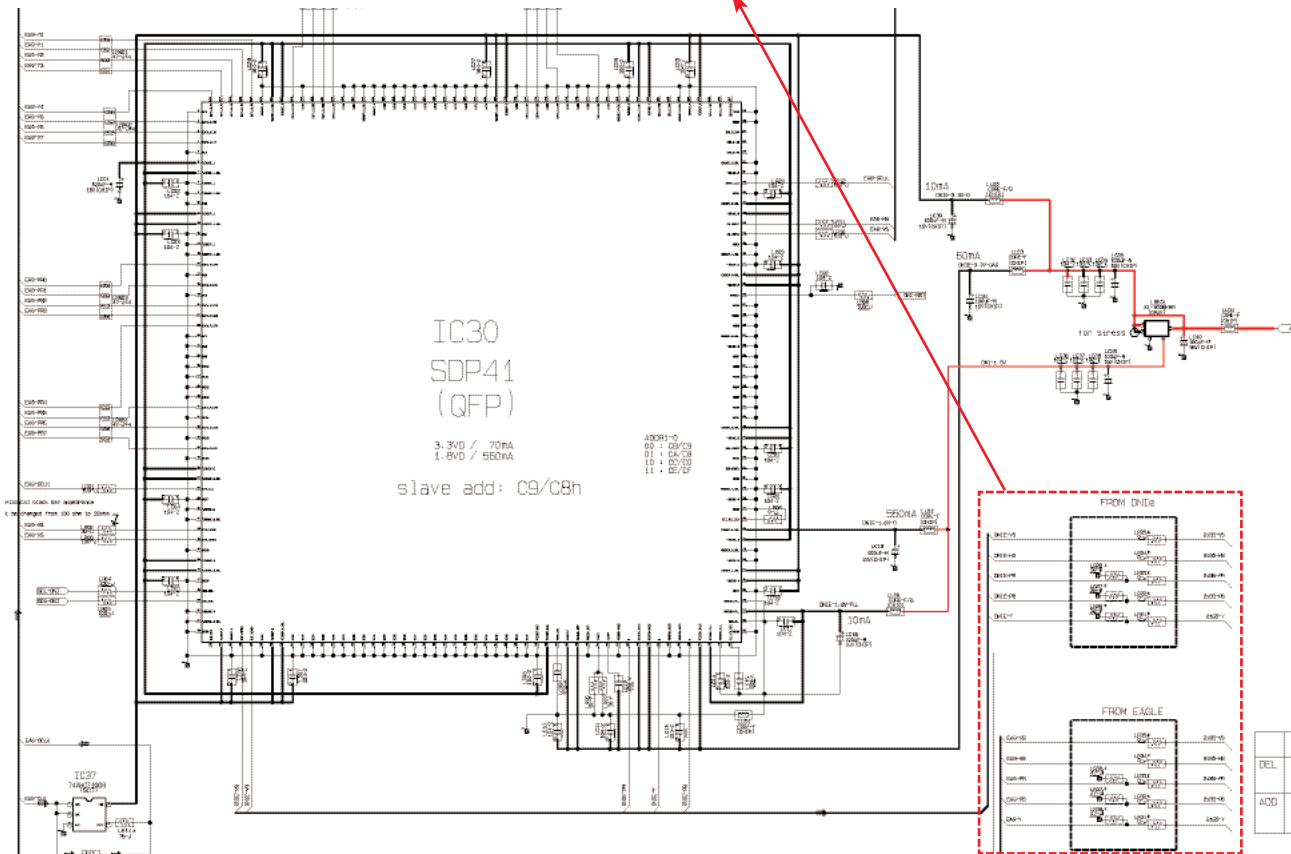
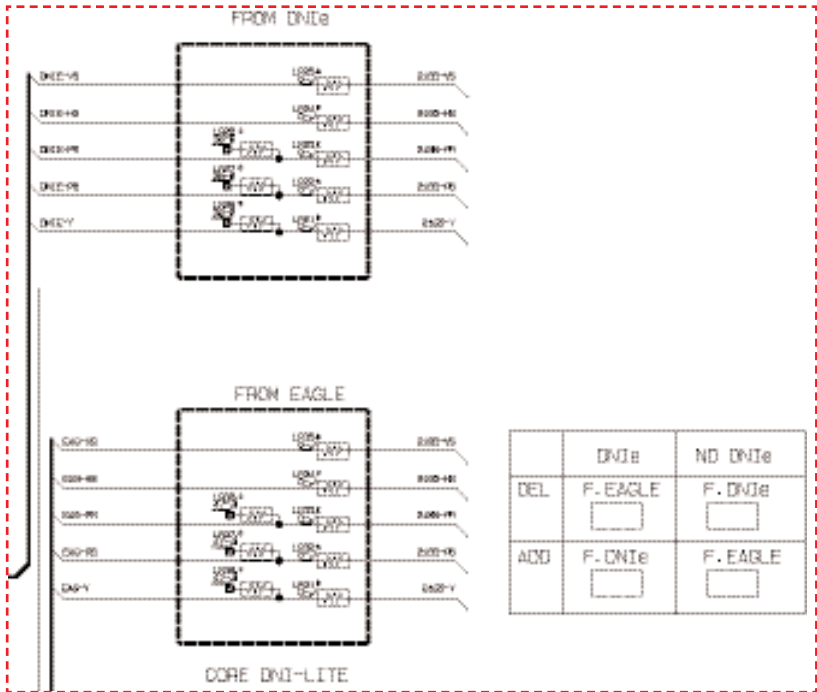




### 3. DNle (SPD41) Diagnosis

This removes noise from the signal processed by the EAGLE IC for better visual quality. It provides a clearer and near natural color picture. Defects in DNle are rare.

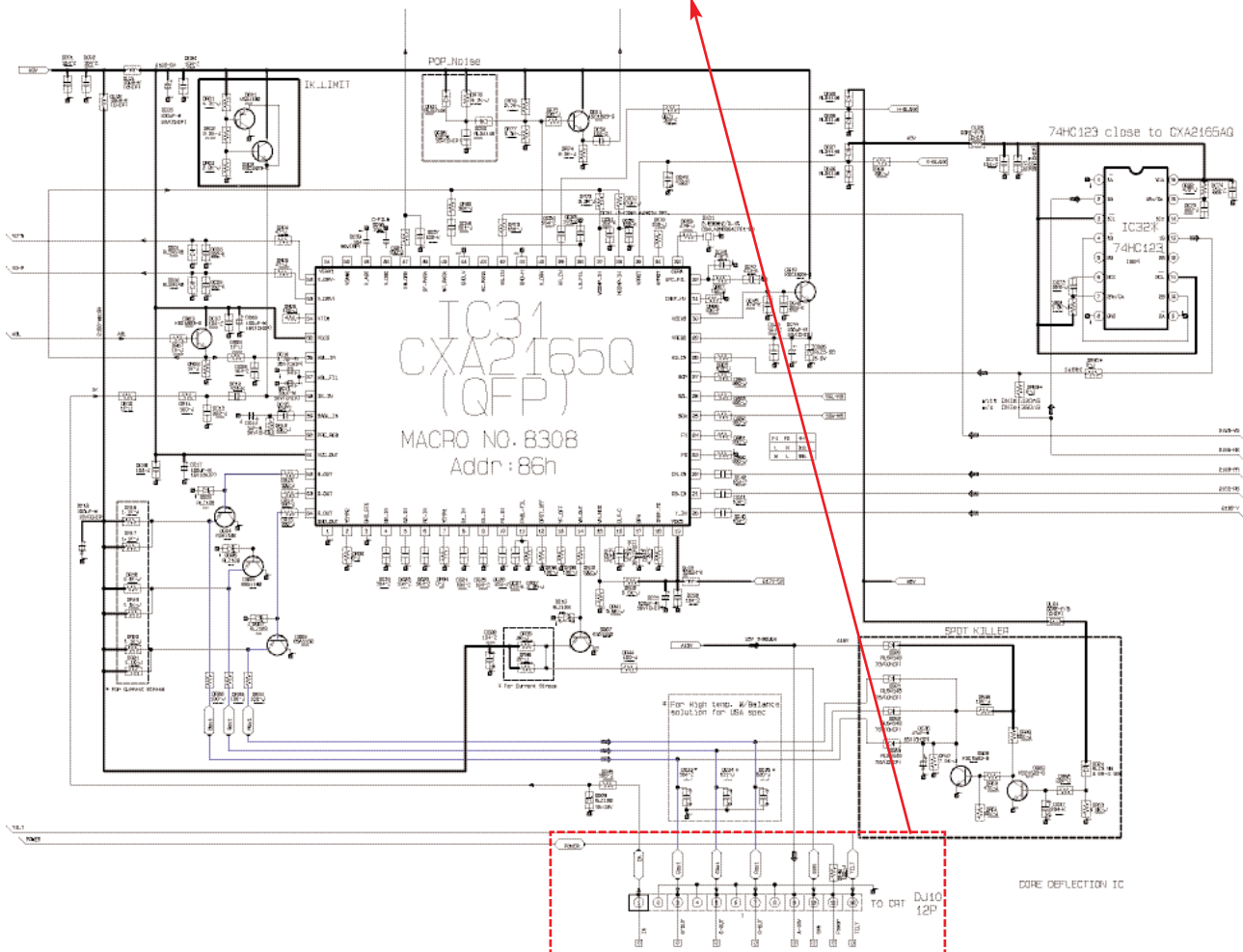
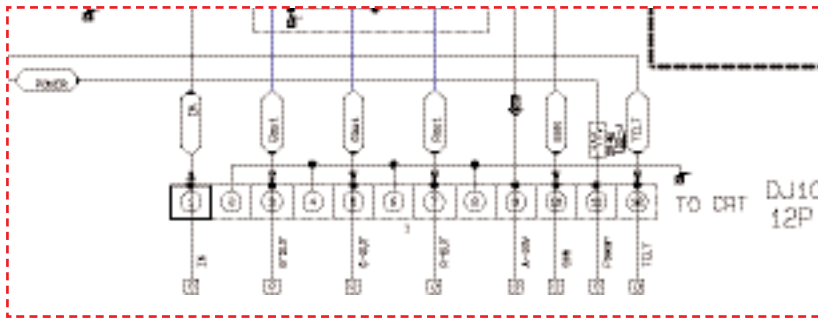
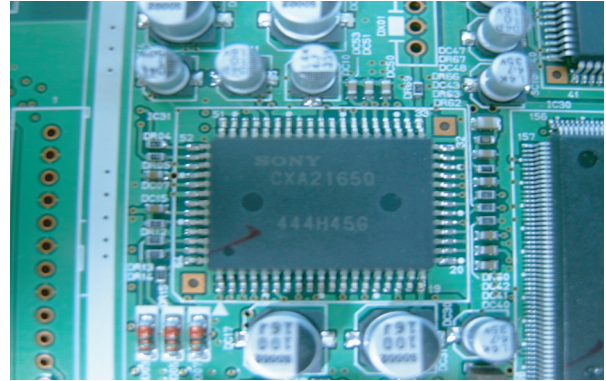
- Power supply : 1.8V, 3.3V
- Check for input defects : R/G/B 24BIT H/V/Clock
- Check for output defects : Y/Pb/Pr H/V



#### 4. CXA2165 Diagnosis

This receives the Y/Pb/Pr input from DNIe and outputs to R/G/B. It also outputs V/H Drive and E/W, and controls the operation of ABL,EHT. If V-Drive output fails, check for an IC defect.

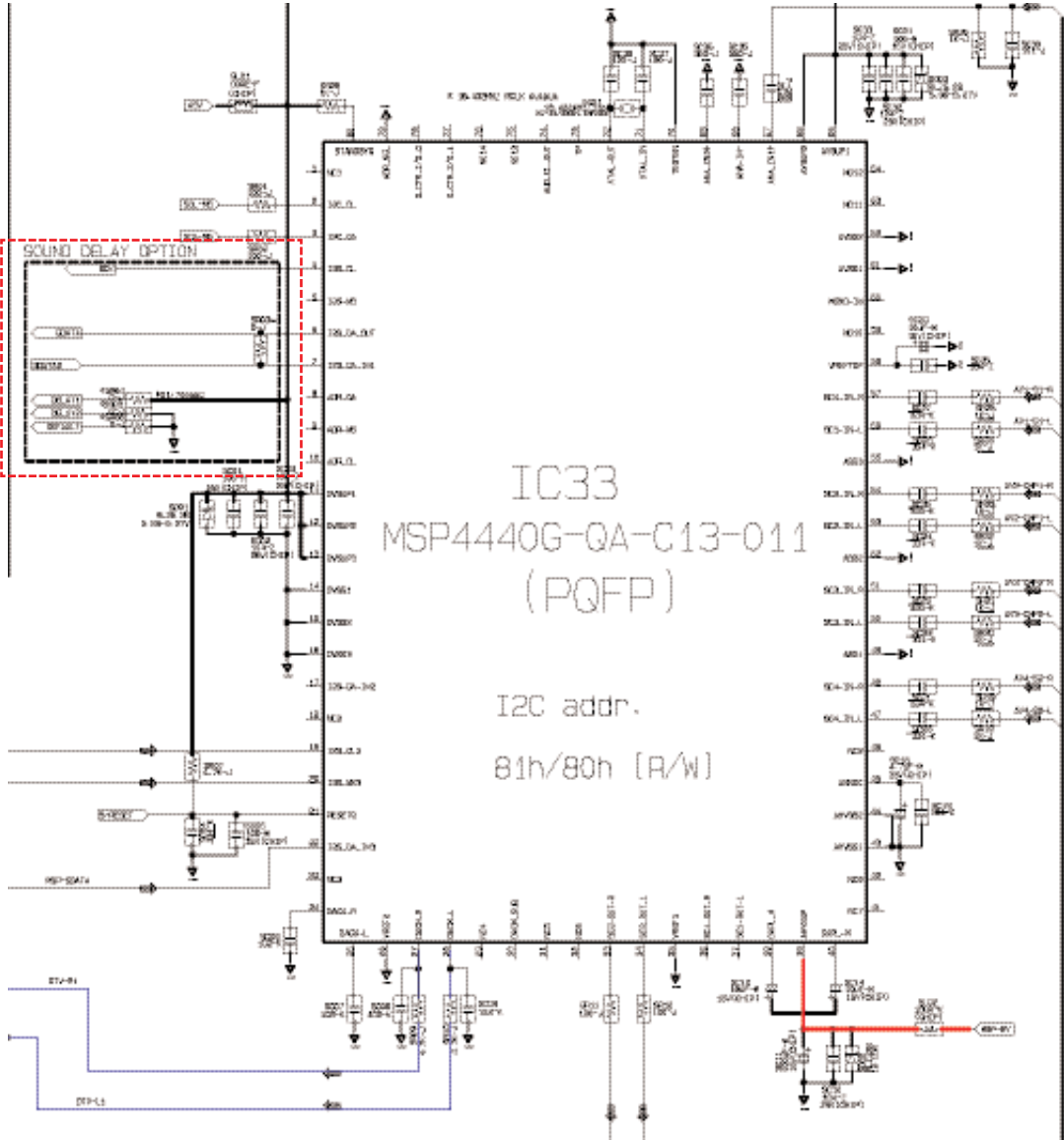
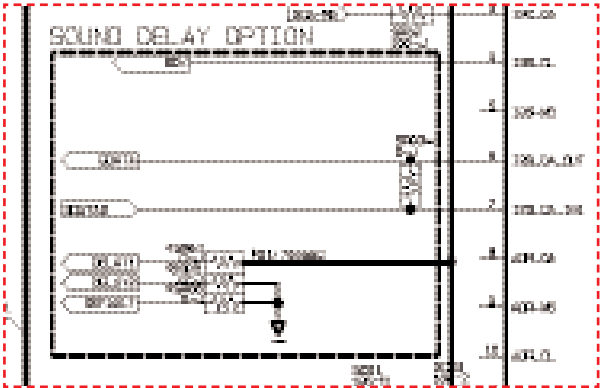
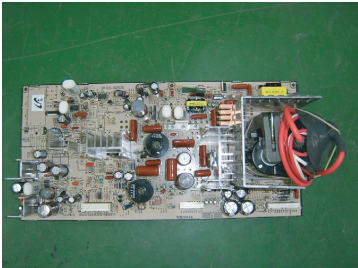
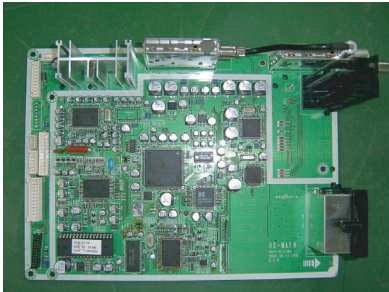
- Power supply : 5V, 15V
- Check for input defects : Y/Pb/Pr H/V
- Check for output defects : R/G/B, ABL, EW, V/H-DRIVE



5. MSP4440 (Audio Processor) Diagnosis

This receives the SiF signal from the Tuner, and the external input signal 1/2/3/4, and performs signal processing for the signals. It can input and output the I2S signal for the Audio Delay.

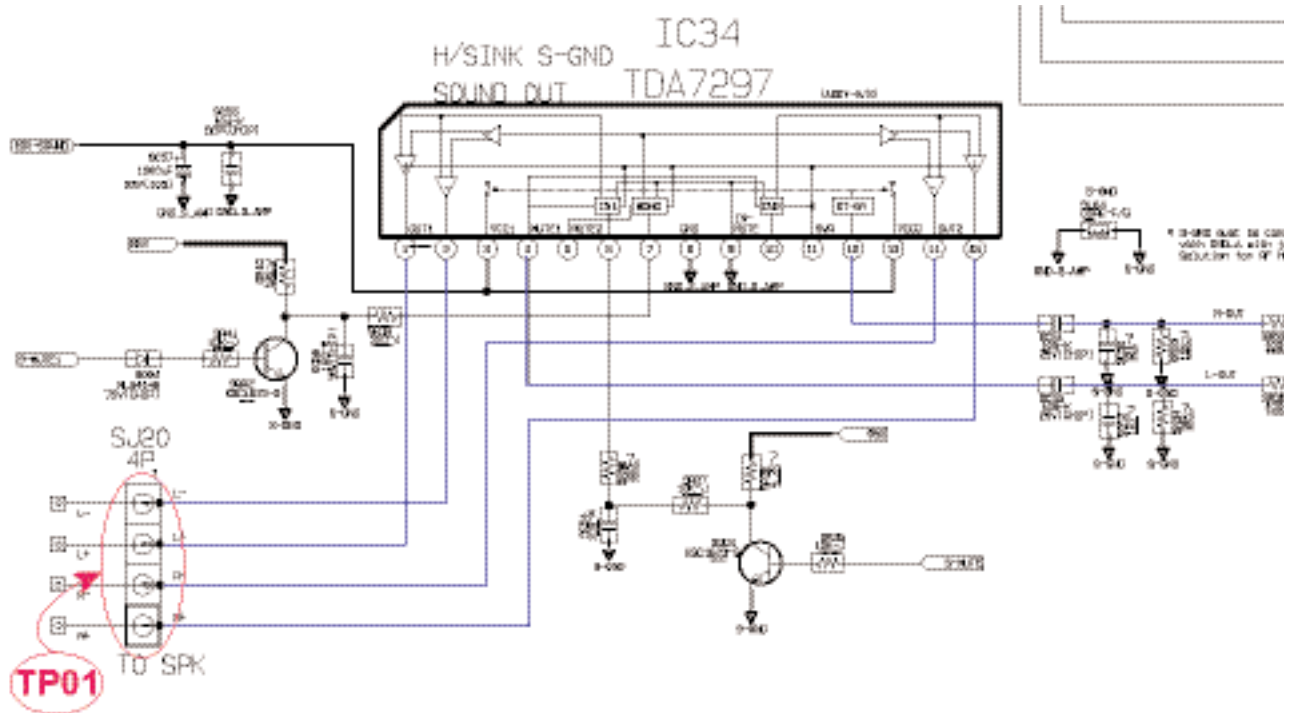
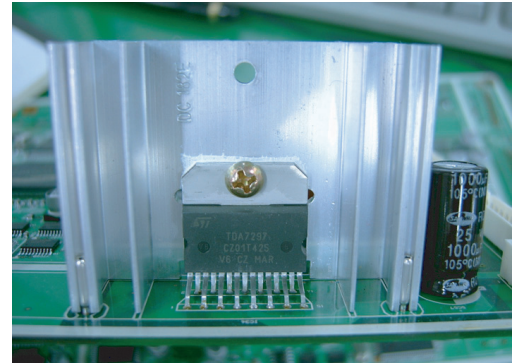
- Power supply : 5V, 8V
- Check for input defects : SiF, Scart 1/2/3/4
- Check for output defects : Lt/Rt, Monitor Out



6. TDA7297 (Audio Processor) Diagnosis

This receives the signal from the Audio Processor (MSP4440) and outputs the signal in 10W + 10W sound.

- Power supply : 16V
- Check for input defects : Lt/Rt
- Check for output defects : L+, L-, R+,R-



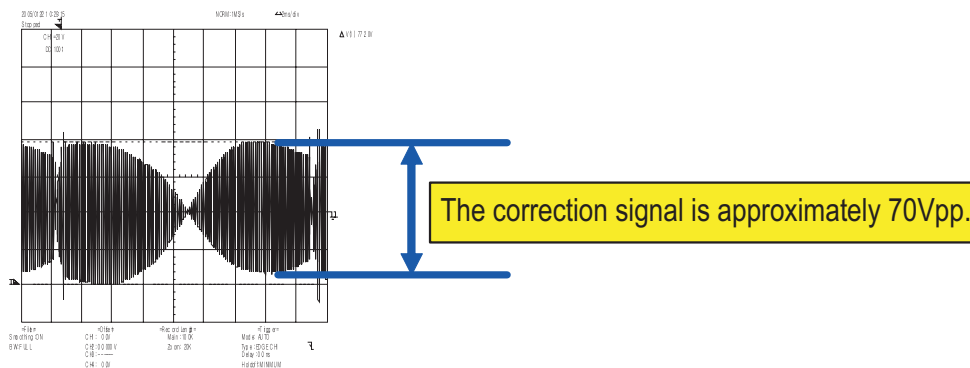
## 6-5-2 Troubleshooting Deflection Board

### ■ Countermeasures by Deflection Types

1. The screen is blank and only the relay repeats close and open when turning the power on.
  - ▶ This happens when the vertical voltage or vertical signal is not supplied, and because the Micom operates for 5 to 10 seconds and then turns the power off by force as it cannot detect the vertical signal..
2. CHECK POINT
  - Check that the vertical output voltage is measured in the FBT terminal.
    - VCC (+) : 19.5V ~ 20V
    - VCC (-) : Higher than 16.5V
  - ▶ If you cannot measure the output voltage, check that the collector voltage of the horizontal TR is 1360V. If the voltage is measured, the problem is a defect in the FBT unit.  
(When you don't have an oscilloscope, and you can hear the high-voltage sound, you can determine that the horizontal TR is normal.)
  - Is the vertical input waveform output from the CXA2165 Chroma IC?
    - ..... Input waveform: Approximately
    - ▶ If the signal is not measured, check the CXA2165 VCC power voltage ==> 9V
3. Check that 15V is the proper output from the SMPS TRANS?

### ■ Countermeasures against problems

1. The drooping of the top and bottom of the screen is too severe.
  - ▶ This may happen when the N/S correction circuit is out of order.
2. CHECK POINT
  - Measure the terminal V2 of the Vertical DY and check that the N/S correction signal is properly supplied.
    - 70Vpp.
  - ▶ If the correction signal is not measured, check that the Lead of L304 (N/S TRANS) is disconnected. If L304 is normal, check the soldering status of C305 and C439.

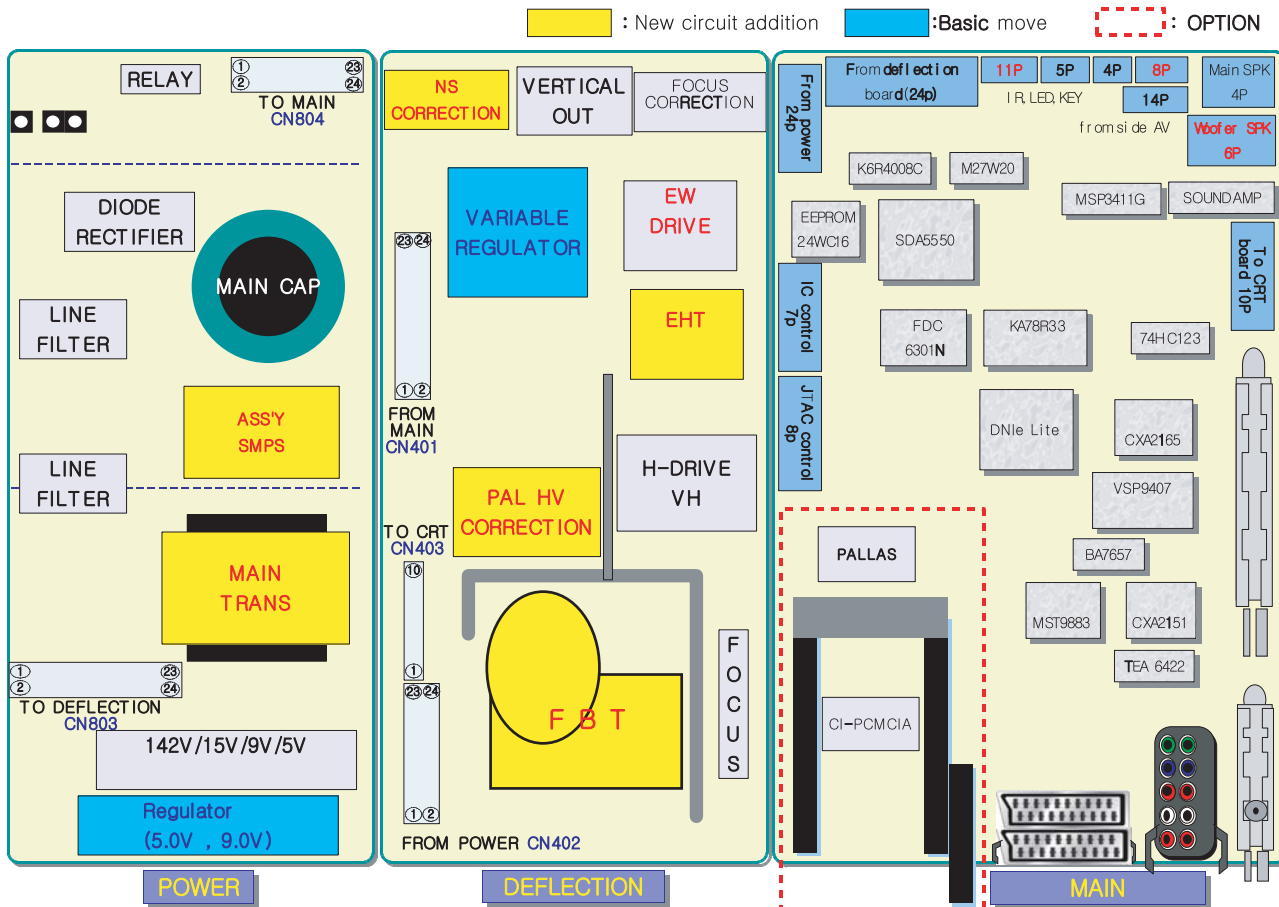


# MEMO

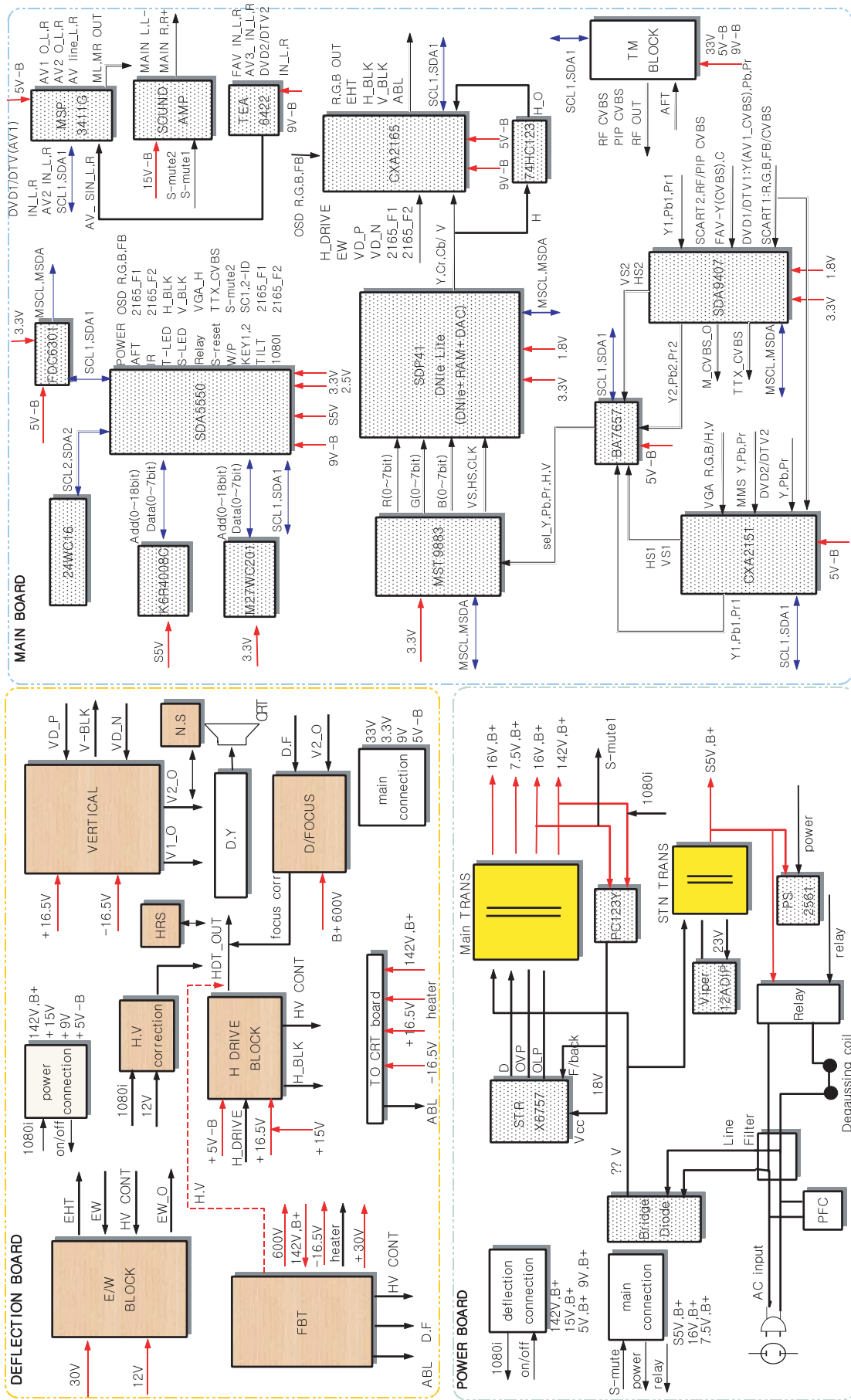


# 7. Block Diagram

## 7-1 Overall Block Diagram

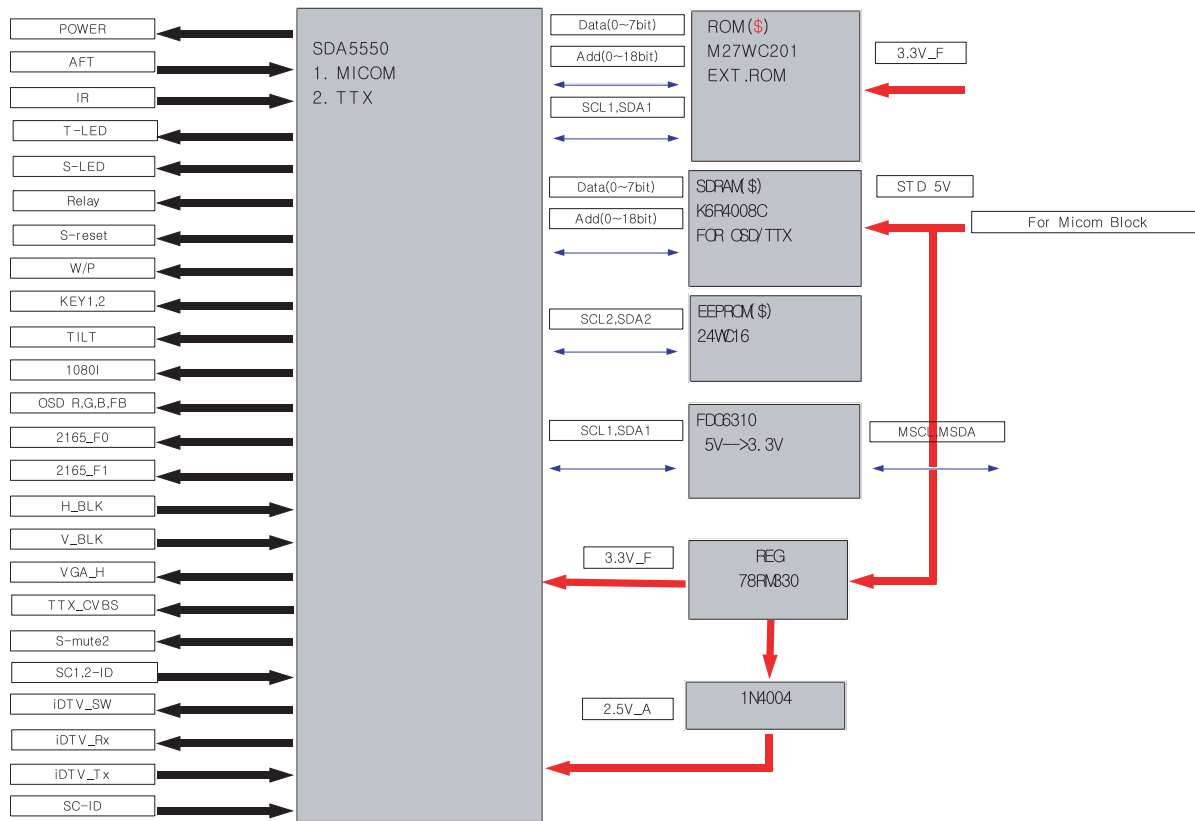




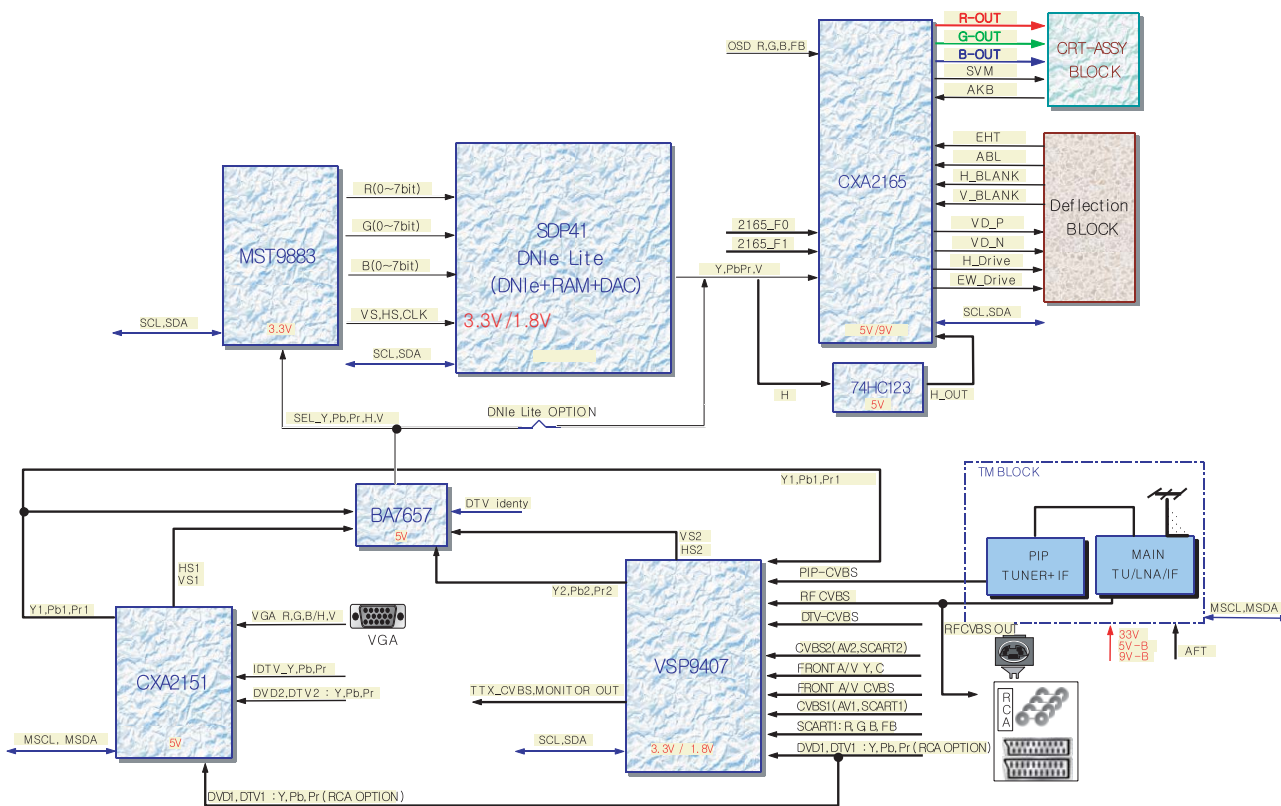


## 7-2 Partial Block Diagram

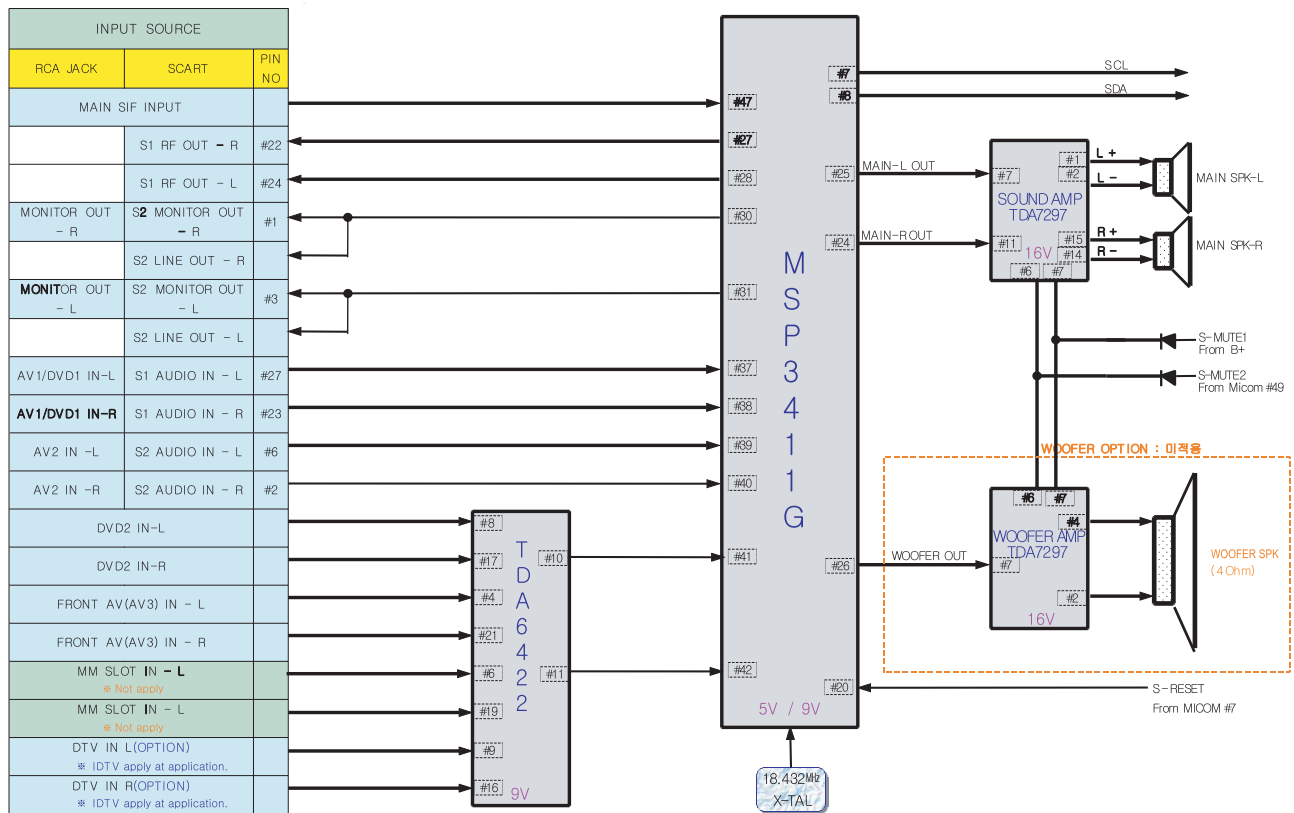
### 7-2-1 Microm Block Diagram



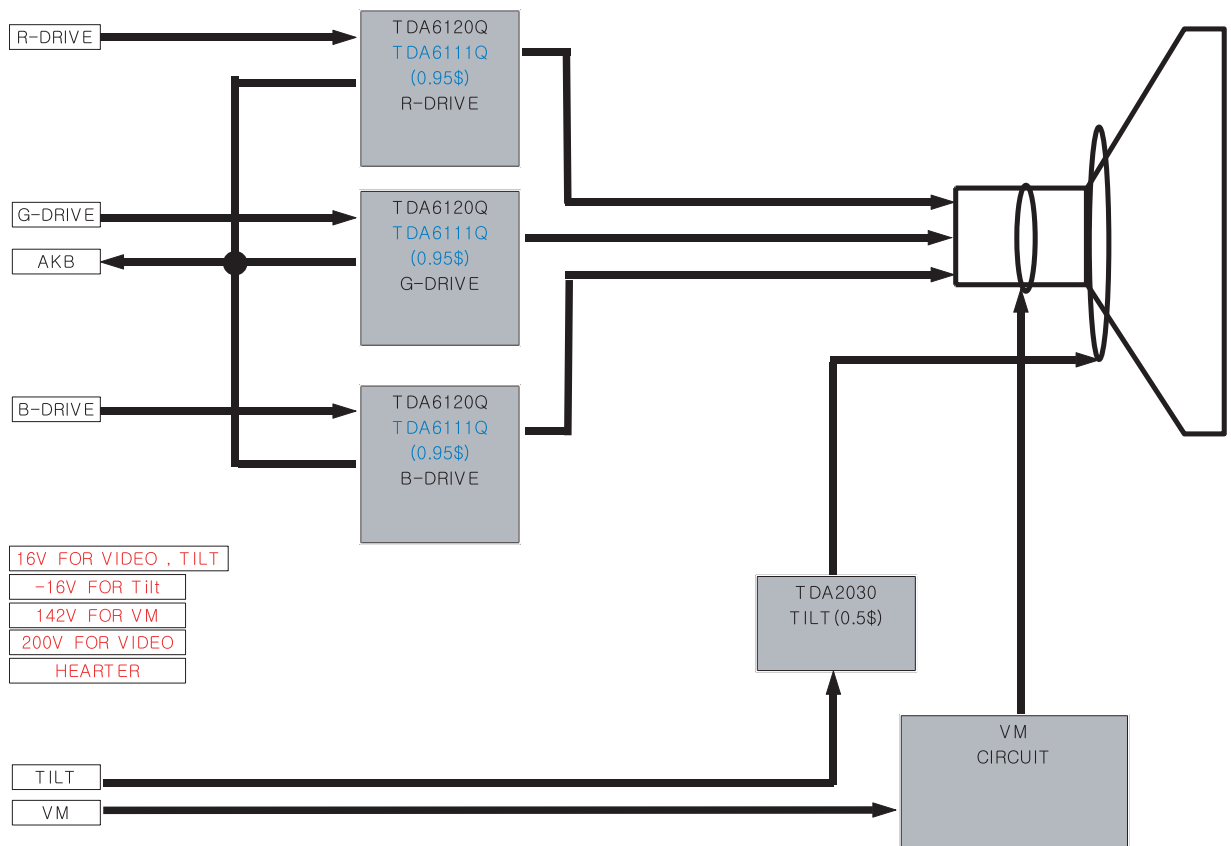
### 7-2-2 Video Block Diagram



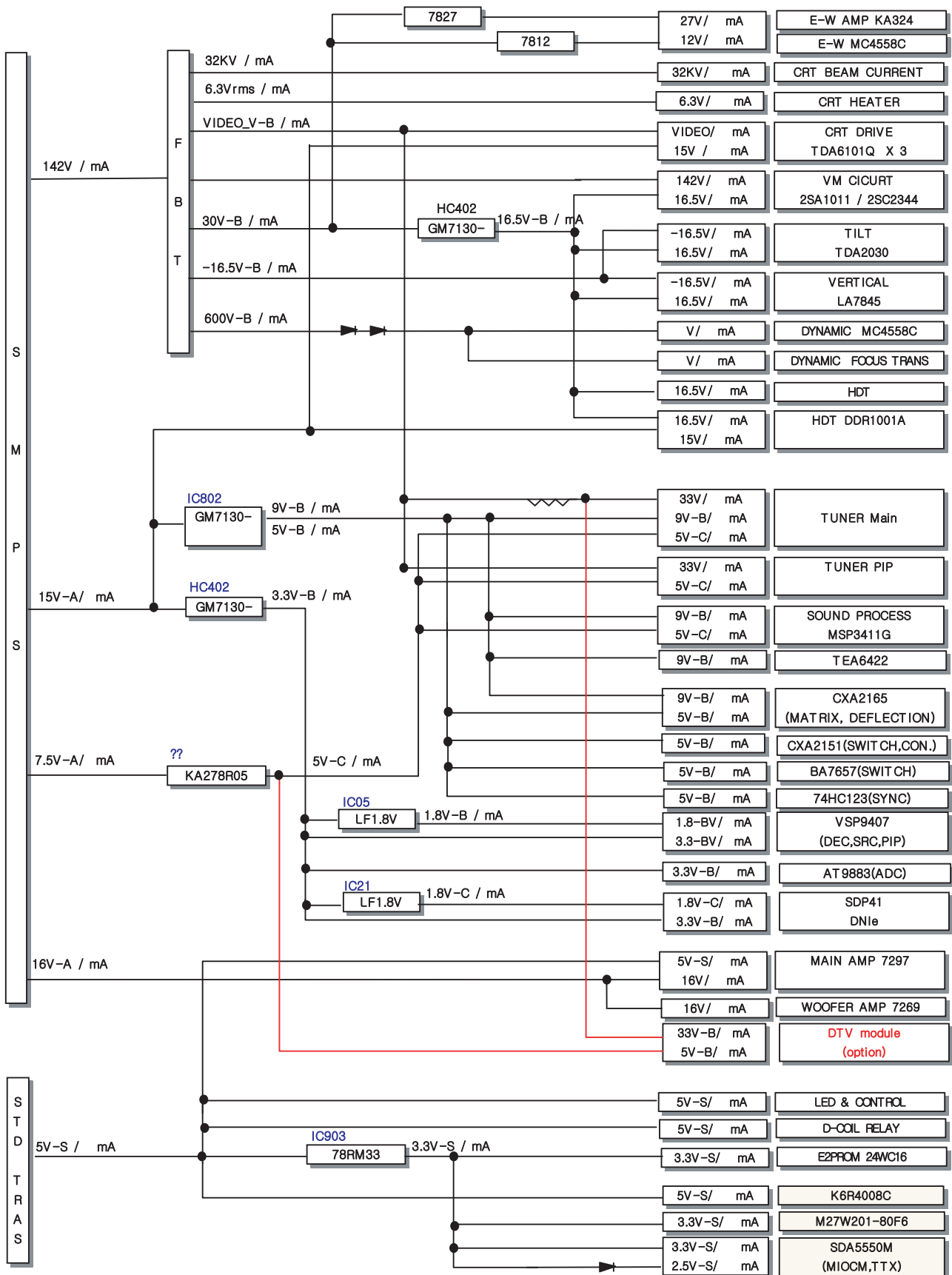
### 7-2-3 Sound Block Diagram



### 7-2-4 CRT Diagram



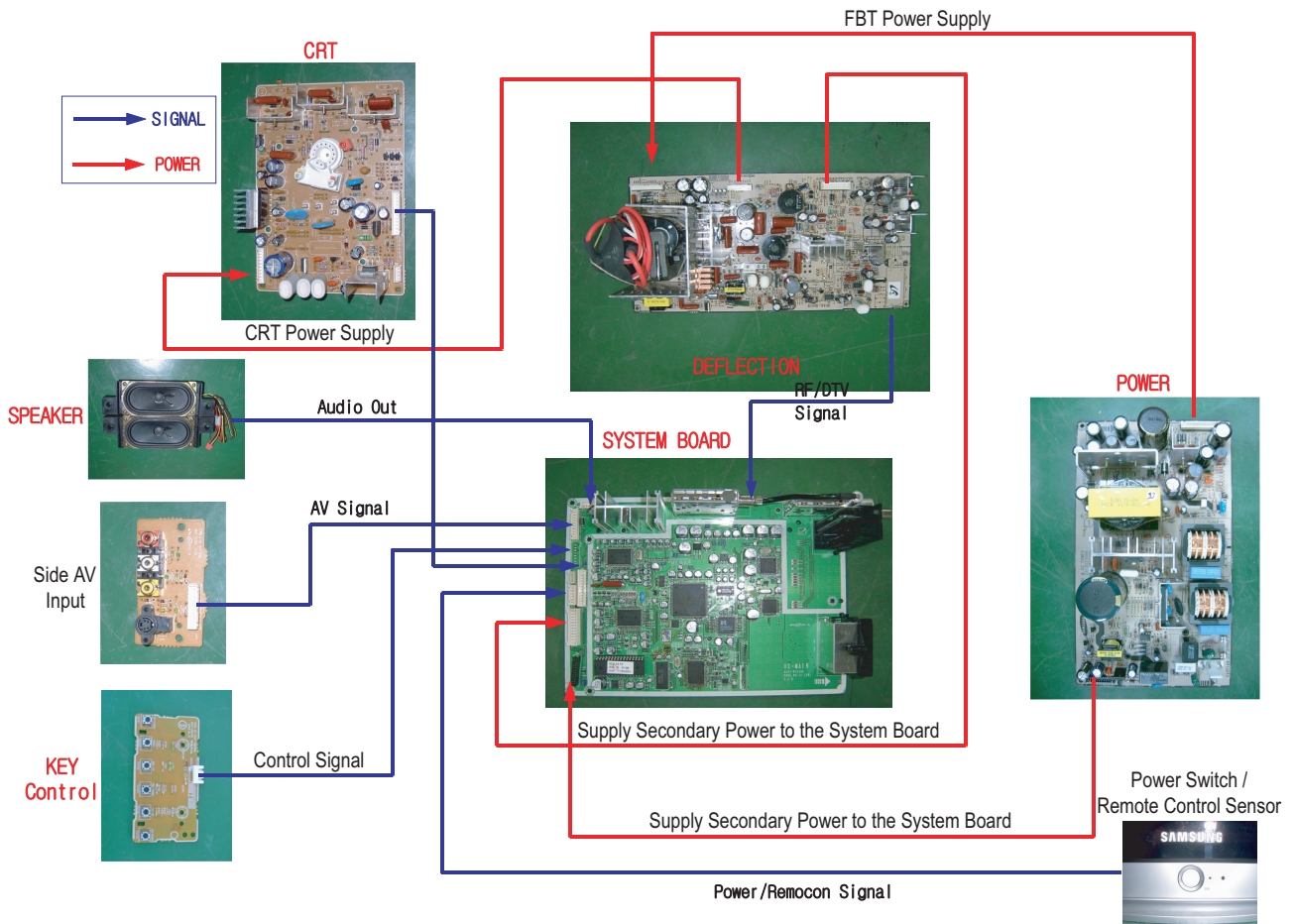
### 7-3 Power current block diagram



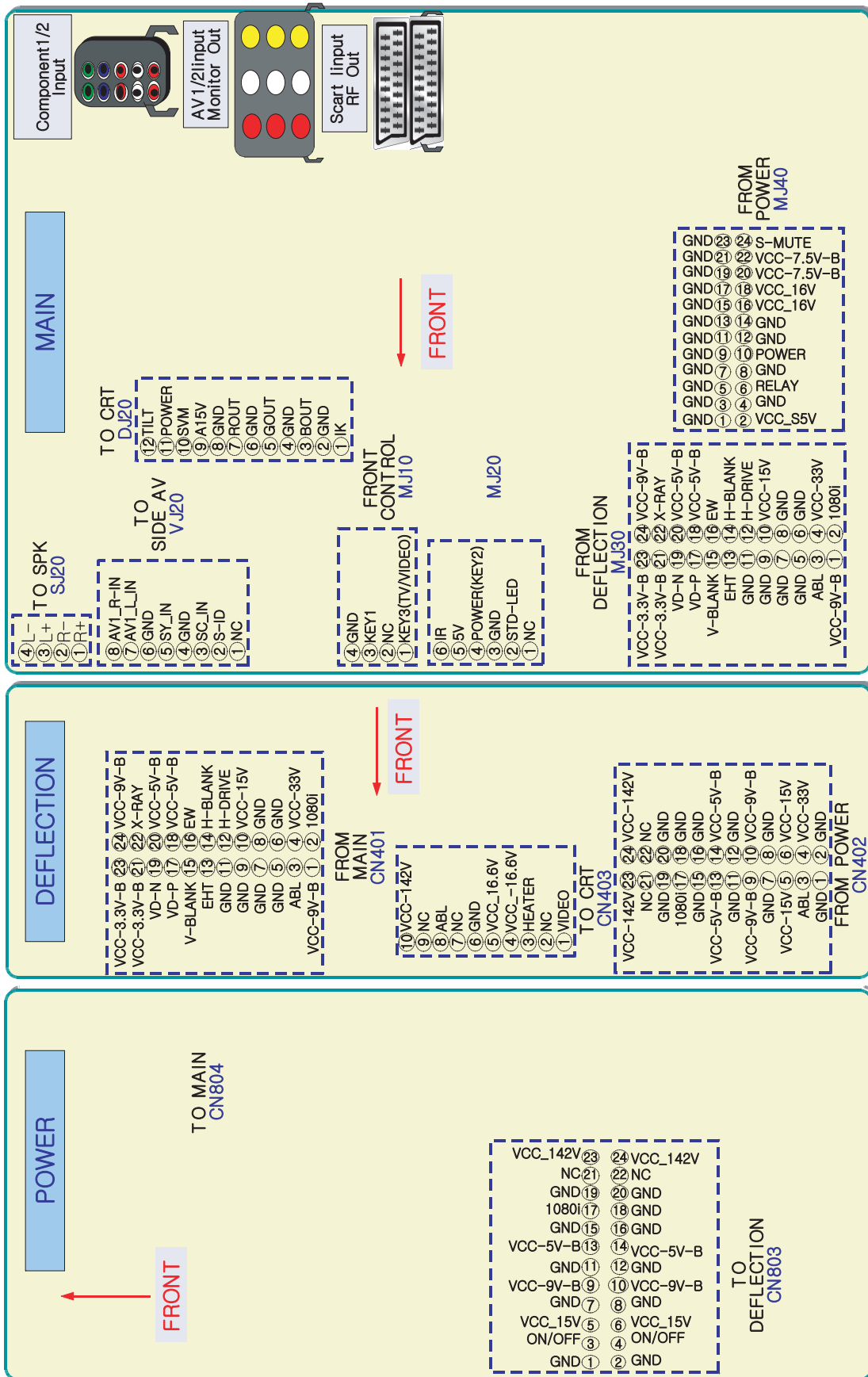
# MEMO

# 8. Wiring Diagram

## 8-1 Overall Wiring



## 8-2 Pin Connection

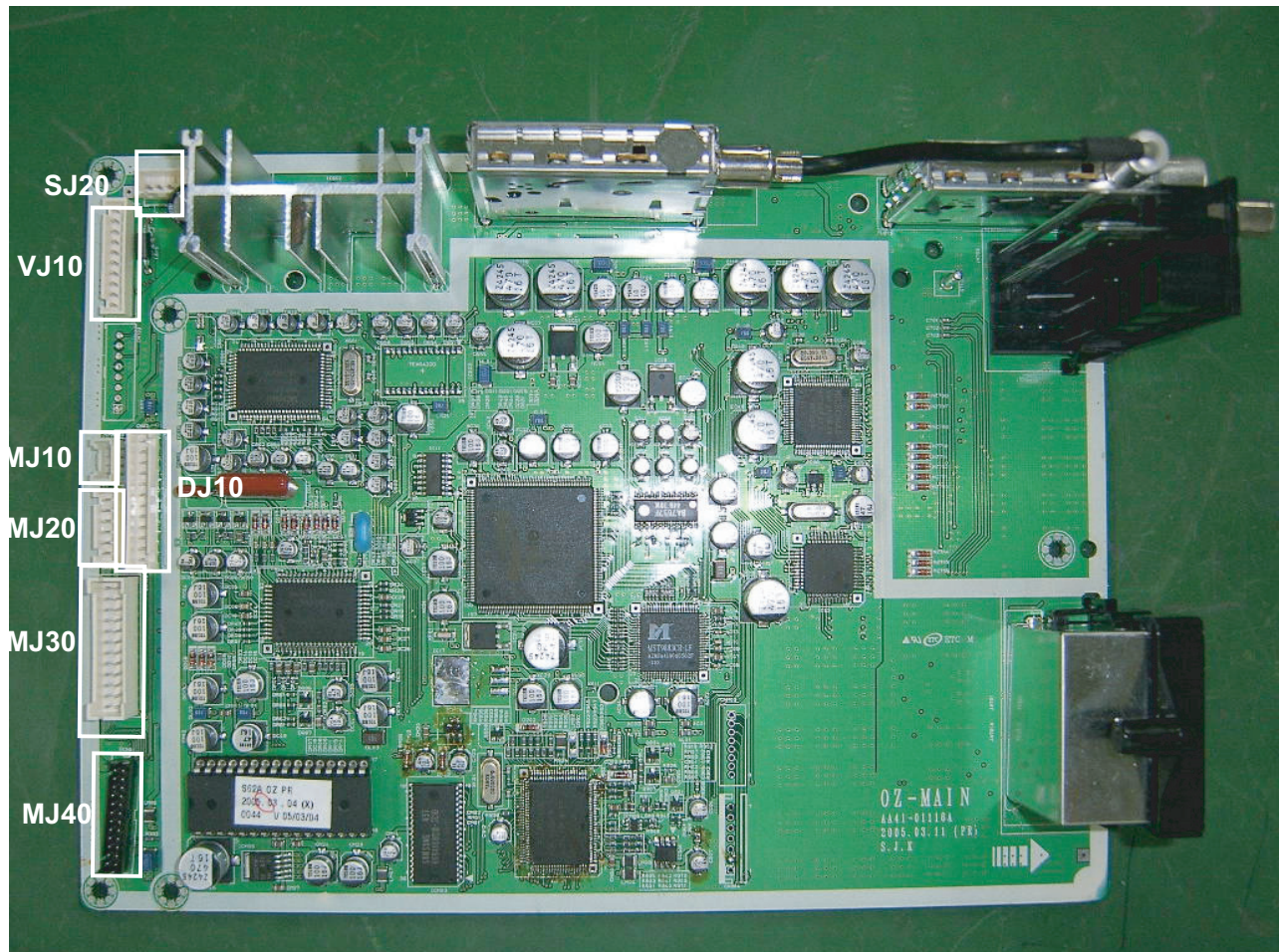




## 9. PCB Diagram

### 9-1 System Board

#### 9-1-1 Assy System Board



■ The System Board that Controls Various Signals for Video Signal Processing and Product Operations

#### 9-1-2 Names & Roles of Key Parts

- \* MJ30 : This is a 28 pin port connected to the Deflection Board and receives 33V, 15V, 9V, 5V and 3.3V power, and sends CRT control signals.
- \* MJ40 : This is a 24 pin port connected to the Power Board and is supplied with ST-BY, 16V and 7.5V powers by the Power Board. It receives the S-Mute signal to prevent a Sound Pop-Noise, which is generated when turning the Master Power off, and sends signals for Relay, Power and 1080i to the Power Board.
- \* DJ10 : This is a 12 pin port connected to the CRT Ass'y, and outputs final R/G/B signals to the CRT Ass'y. In addition, it outputs the Tilt, VM, and Power signals for the CRT Drive.
- \* MJ20 : This is a 6 pin port connected to the Master Ass'y, and receives Master Power On/Off, and IR signals.
- \* MJ10 : This is a 4 pin port connected to the Control Ass'y, and receives TV/Video, Menu, Ch Up/Down and Vol +/- signals.
- \* VJ10 : This is a 10 pin port connected to the Side AV, and receives S-Video2 and AV4 external inputs.
- \* SJ20 : This is a 4 pin port connected to the Speaker, and sends the signal from the AMP to the speakers.

### 9-1-3 System Board Connector Pin

#### MJ30

Connected to the Deflection Board

| Pin Name   | PIN No. |    | Pin Name |
|------------|---------|----|----------|
| VCC-9V-B   | 1       | 2  | 1080i    |
| ABL        | 3       | 4  | VCC-33V  |
| GND        | 5       | 6  | GND      |
| GND        | 7       | 8  | GND      |
| VCC-15V    | 9       | 10 | VCC-15V  |
| GND        | 11      | 12 | H-DRIVE  |
| GND        | 13      | 14 | H-BLANK  |
| V-BLANK    | 15      | 16 | EW       |
| VD-P       | 17      | 18 | VCC-5V-B |
| VD-N       | 19      | 20 | VCC-5V-B |
| VCC-3.3V-B | 21      | 22 | X-RAY    |
| VCC-3.3V-B | 23      | 24 | 8B       |
| LNA-SW     | 25      | 26 | RX       |
| AGC-SW     | 27      | 28 | TX       |

#### MJ40

Connected to the Power Board

| Pin Name   | PIN No. |    | Pin Name   |
|------------|---------|----|------------|
| VCC_S5V    | 1       | 2  | VCC_S5V    |
| GND        | 3       | 4  | GND        |
| RELAY      | 5       | 6  | RELAY      |
| GND        | 7       | 8  | GND        |
| POWER      | 9       | 10 | POWER      |
| GND        | 11      | 12 | GND        |
| GND        | 13      | 14 | GND        |
| 1080i      | 15      | 16 | 1080i      |
| VCC_16V    | 17      | 18 | VCC_16V    |
| VCC-7.5V-B | 19      | 20 | VCC-7.5V-B |
| S-MUTE     | 21      | 22 | S-MUTE     |
| GND_S_AMP  | 23      | 24 | GND_S_AMP  |

#### DJ10

Connected to the CRT Ass'y

| PIN No. | Pin Name |
|---------|----------|
| 1       | IK       |
| 2       | GND      |
| 3       | B-OUT    |
| 4       | GND      |
| 5       | G-OUT    |
| 6       | GND      |
| 7       | R-OUT    |
| 8       | GND      |
| 9       | 15V      |
| 10      | VM       |
| 11      | POWER    |
| 12      | TILT     |

#### VJ10

Connected to the Side AV Port

| PIN No. | Pin Name |
|---------|----------|
| 1       | S-Y2     |
| 2       | GND      |
| 3       | S-C2     |
| 4       | GND      |
| 5       | AV       |
| 6       | GND      |
| 7       | AV4-L    |
| 8       | GND      |
| 9       | AV4-R    |
| 10      | GND      |

#### SJ20

Connected to the Side AV Port

| PIN No. | Pin Name |
|---------|----------|
| 1       | R+       |
| 2       | R-       |
| 3       | L+       |
| 4       | L-       |

## MJ20

Connected to the Master Ass'y

| PIN No. | Pin Name |
|---------|----------|
| 1       | NC       |
| 2       | STD-LED  |
| 3       | GND      |
| 4       | KEY2     |
| 5       | 5V       |
| 6       | IR       |

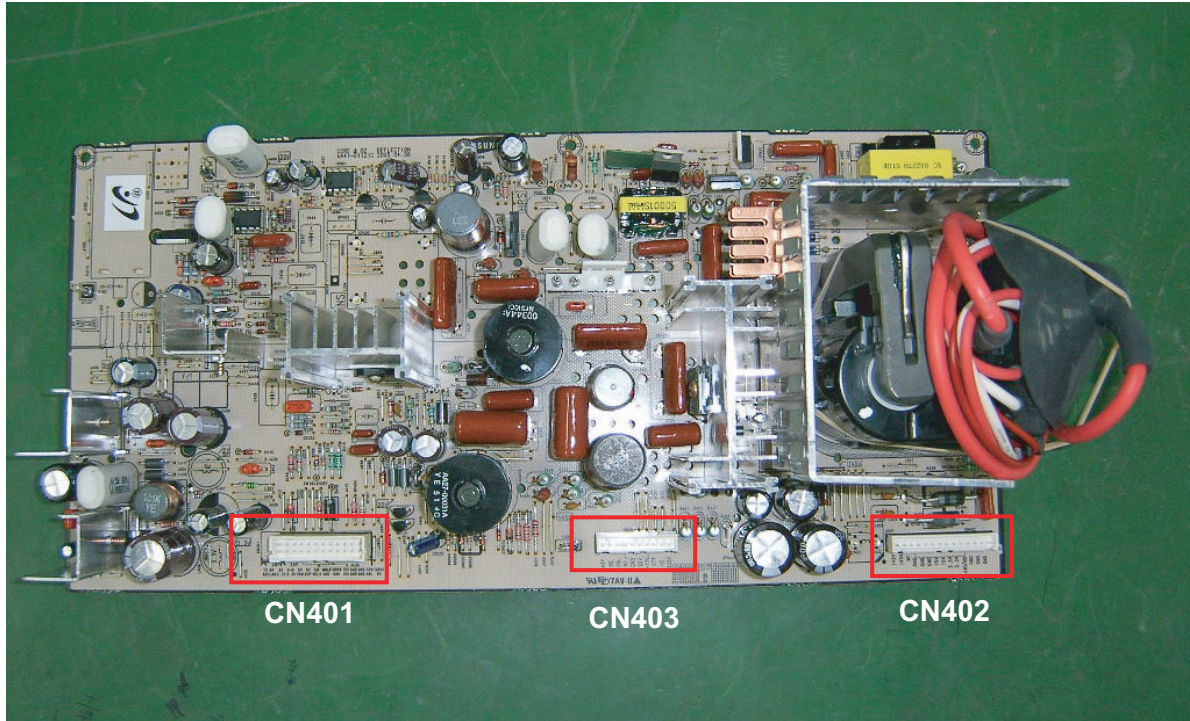
## MJ10

Connected to the Control Ass'y

| PIN No. | Pin Name |
|---------|----------|
| 1       | KEY3     |
| 2       | A10      |
| 3       | KEY1     |
| 4       | GND      |

## 9-2 Deflection Board

### 9-2-1 Assy Deflection Board



■ This controls the path of the electron beams from the CRT electron guns using the deflection coil.

### 9-2-2 Names & Roles of Key Parts

- \* CN401 : This is a 28 pin port connected to the System Board, and supplies 33V, 15V, 9V, 5V and 3.3V power to the System Board.
- \* CN402 : This is a 14 pin port connected to the Power Board, is supplied with 145V and 15V power by the Power Board and receives the power ON/OFF signal.
- \* CN403 : This is a 10 pin port connected to the CRT Ass'y, and supplies power for the CRT and R/G/B signal amplifying AMP.
- \* CN301 : This is a 4 pin port connected to the DY, and supplies voltage for CRT R/G/B.
- \* GT101 : This is a ground port to prevent high voltage due to lightning, and is connected to the Power Board.



### 9-2-3 Deflection Board Connector Pin

#### CN401

Connected to the System Board

| Pin Name   | PIN No. |    | Pin Name |
|------------|---------|----|----------|
| VCC-9V-B   | 1       | 2  | 1080i    |
| ABL        | 3       | 4  | VCC-33V  |
| GND        | 5       | 6  | GND      |
| GND        | 7       | 8  | GND      |
| VCC-15V    | 9       | 10 | VCC-15V  |
| GND        | 11      | 12 | H-DRIVE  |
| GND        | 13      | 14 | H-BLANK  |
| V-BLANK    | 15      | 16 | EW       |
| VD-P       | 17      | 18 | VCC-5V-B |
| VD-N       | 19      | 20 | VCC-5V-B |
| VCC-3.3V-B | 21      | 22 | X-RAY    |
| VCC-3.3V-B | 23      | 24 | 8B       |
| LNA-SW     | 25      | 26 | RX       |
| AGC-SW     | 27      | 28 | TX       |

#### CN402

Connected to the Power Board

| PIN No. | Pin NAME |
|---------|----------|
| 1       | VCC_142V |
| 2       | VCC_142V |
| 3       | NC       |
| 4       | GND      |
| 5       | GND      |
| 6       | GND      |
| 7       | GND      |
| 8       | VCC_15V  |
| 9       | VCC_15V  |
| 10      | ON/OFF   |
| 11      | GND      |
| 12      | GND      |
| 13      | GND      |
| 14      | GND      |

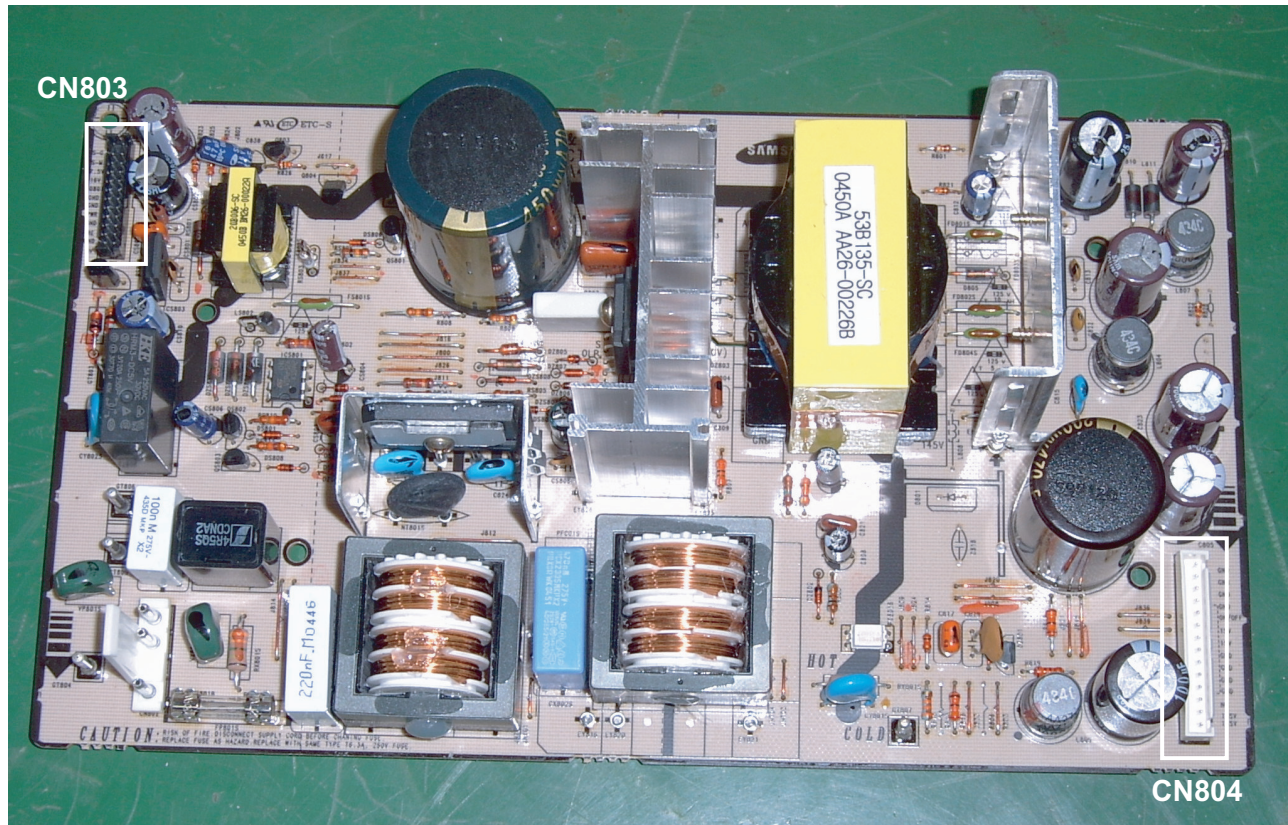
#### CN403

Connected to the CRT Ass'y

| PIN No. | Pin NAME   |
|---------|------------|
| 1       | VCC-200V   |
| 2       | NC         |
| 3       | HEATER     |
| 4       | VCC_-16.5V |
| 5       | VCC_20V    |
| 6       | GND        |
| 7       | NC         |
| 8       | ABL        |
| 9       | NC         |
| 10      | VCC_142V   |

## 9-3 Power Board

### 9-3-1 Assy Power Board



■ The Assy Power Board supplies DC power. This supplies power to the System and the Deflection Board.

### 9-3-2 Names & Roles of Key Parts

- \* CN804 : This is a 14 pin port connected to the Deflection Board, and supplies 142V and 15V voltage and the power on and off signals to the Deflection Board.
- \* CN803 : This is a 24 pin port connected to the System Board, and supplies ST-BY 5V, 15V and 7.5V voltage and the S-Mute signal, to prevent a Sound Pop-Noise which is generated when turning the master power OFF, to the System Board. It receives the Relay, Power and 1080i signals from the System Board.
- \* GT807 : This is a port for countermeasures against compulsory discharges and is connected to the CRT Board.
- \* GT804 : This is a ground port to prevent high voltage due to lightning and is connected to the Deflection Board.
- \* CN802 : This is a 3 pin port connected to the AC power cable. It is connected to the power cable socket.
- \* GT805, GT806 : This is a port connected to the D-Coil surrounding the CRT.

### 9-3-3 Power Board Connector Pin

#### CN803

Supplies power to the System Board

| Pin Name   | PIN No. |    | Pin Name   |
|------------|---------|----|------------|
| VCC_S5V    | 1       | 2  | VCC_S5V    |
| GND        | 3       | 4  | GND        |
| RELAY      | 5       | 6  | RELAY      |
| GND        | 7       | 8  | GND        |
| POWER      | 9       | 10 | POWER      |
| GND        | 11      | 12 | GND        |
| GND        | 13      | 14 | GND        |
| 1080i      | 15      | 16 | 1080i      |
| VCC_16V    | 17      | 18 | VCC_16V    |
| VCC-7.5V-B | 19      | 20 | VCC-7.5V-B |
| S-MUTE     | 21      | 22 | S-MUTE     |
| GND_S_AMP  | 23      | 24 | GND_S_AMP  |

#### CN804

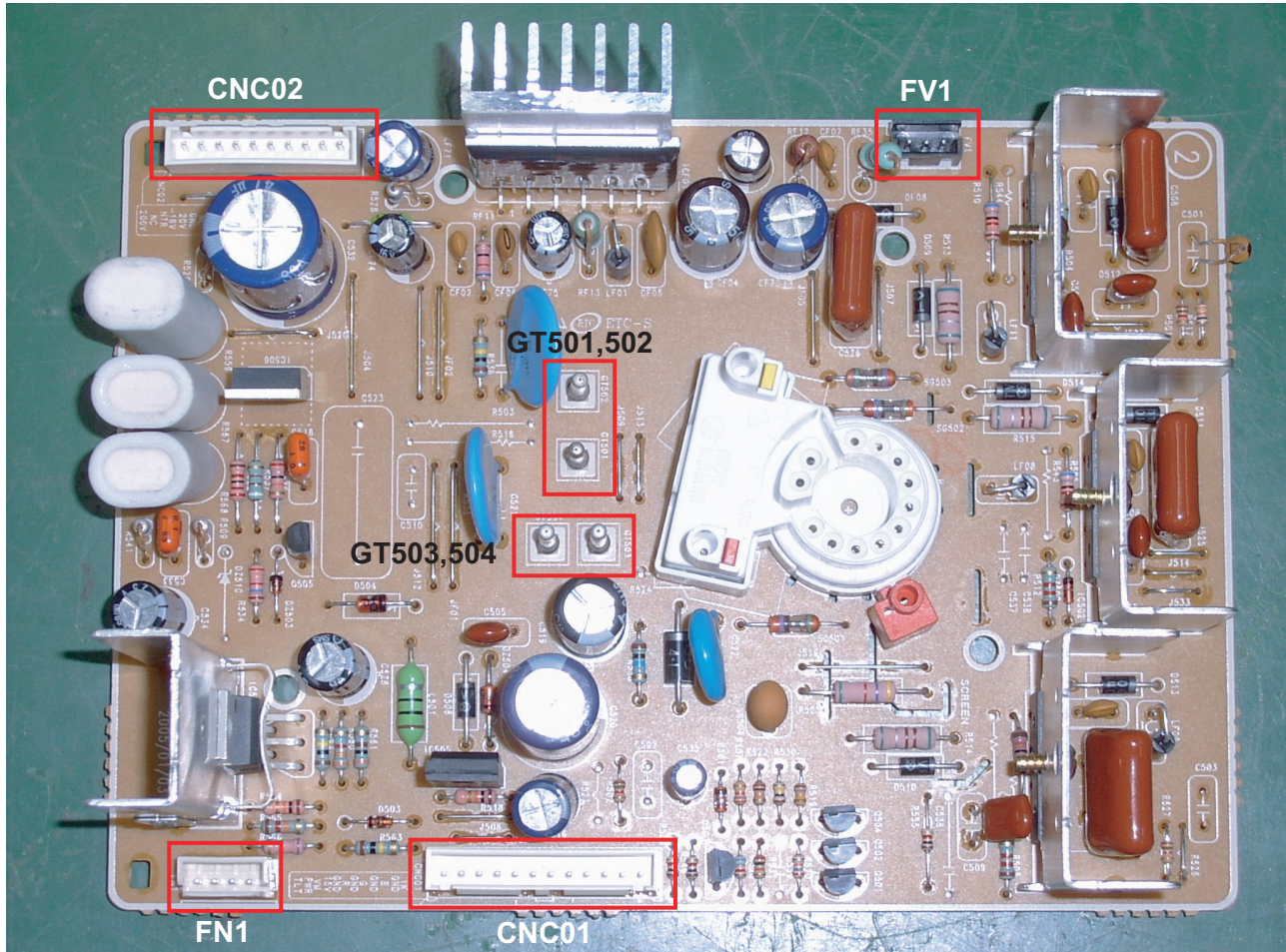
Supplies power to the Deflection Board

| PIN No. | Pin NAME |
|---------|----------|
| 1       | VCC_142V |
| 2       | VCC_142V |
| 3       | NC       |
| 4       | GND      |
| 5       | GND      |
| 6       | GND      |
| 7       | GND      |
| 8       | VCC_15V  |
| 9       | VCC_15V  |
| 10      | ON/OFF   |
| 11      | GND      |
| 12      | GND      |
| 13      | GND      |
| 14      | GND      |



## 9-4 CRT Board

### 9-4-1 Assy CRT Board



#### ■ CRT Drive

This supplies the final R/G/B signal from the System Board and the CRT deflection signal to the CRT.

### 9-4-2 Names & Roles of Key Parts

- \* GT503 or GT504 : This is a port for countermeasures against compulsory discharges and is connected to the Power Board.
- \* GT501, GT502 : This is a port connected to the TBC-Wire and plays the role of CRT ground.
- \* CNC01 : This is a port to receive the R/G/B output signals from the System Board.
- \* CNC02 : This is a port that receives power for the CRT and AMP from the Deflection Board.
- \* FV1 : A port to connect the VM signal to the DY Ass'y.
- \* FN1 : A port to connect signals to the Tilt Coil and is required for the screen slant adjustment.

### 9-4-3 CRT Board Connector Pin

#### CNC01

Connects the R/G/B signal from the System Board

| PIN No. | Pin NAME |
|---------|----------|
| 1       | IK       |
| 2       | GND      |
| 3       | B        |
| 4       | GND      |
| 5       | G        |
| 6       | GND      |
| 7       | R        |
| 8       | GND      |
| 9       | 15V      |
| 10      | VM       |
| 11      | PWR      |
| 12      | TLT      |

#### CNC02

Connects the power from the Deflection Board

| PIN No. | Pin NAME   |
|---------|------------|
| 1       | VCC-200V   |
| 2       | NC         |
| 3       | HEATER     |
| 4       | VCC_-16.5V |
| 5       | VCC_20V    |
| 6       | GND        |
| 7       | NC         |
| 8       | ABL        |
| 9       | NC         |
| 10      | VCC_142V   |

#### FV1

Connects the VM signal to the DY Ass'y

| PIN No. | Pin NAME |
|---------|----------|
| 1       | VM       |
| 2       | NC       |
| 3       | VM       |

#### FN1

Connects the signal to the Tilt Coil

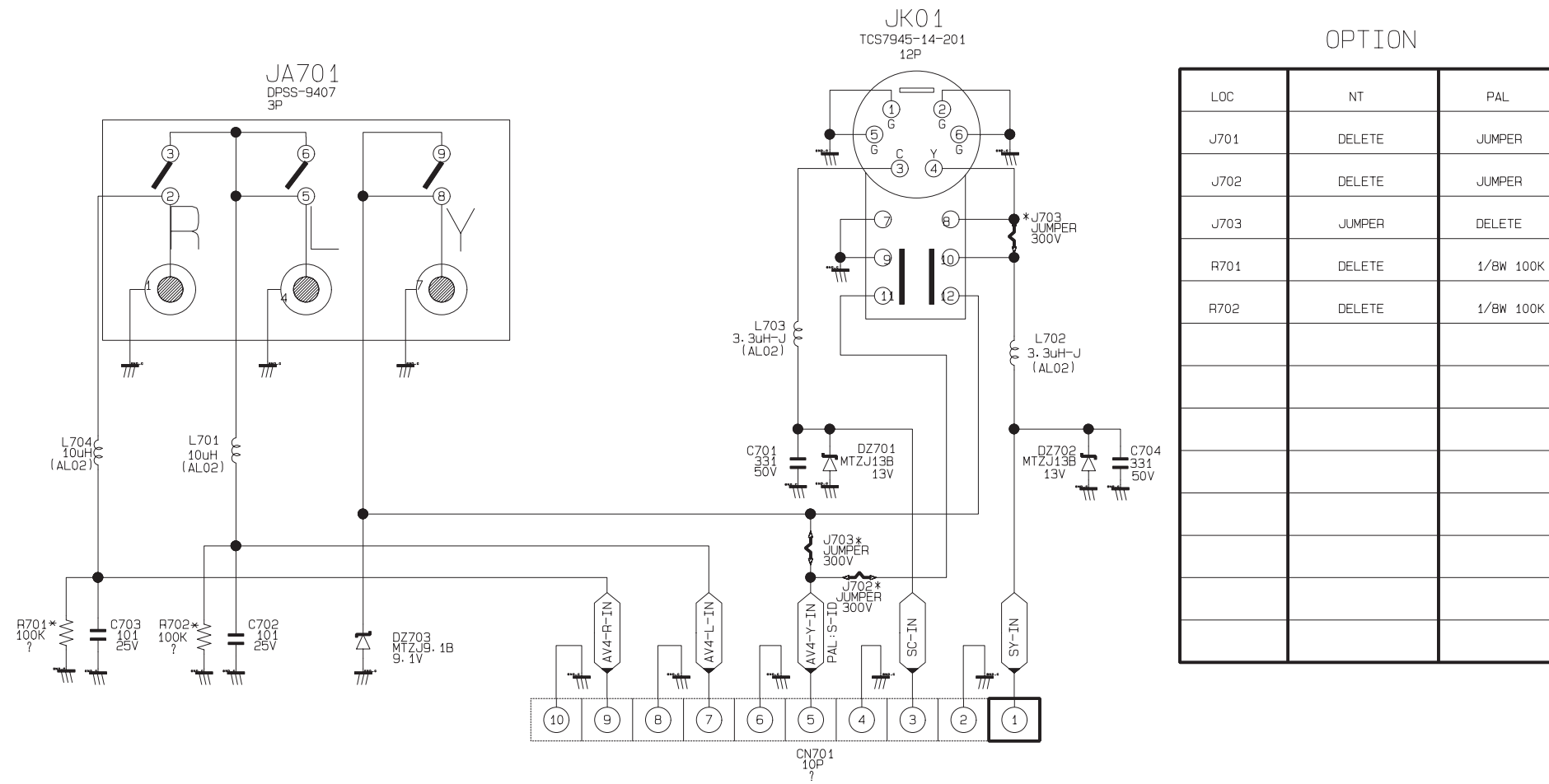
| PIN No. | Pin NAME |
|---------|----------|
| 1       | GND      |
| 2       | GND      |
| 3       | TILT     |
| 4       | TILT     |

# MEMO

# 10. Schematic Diagram

## 10-1 AV

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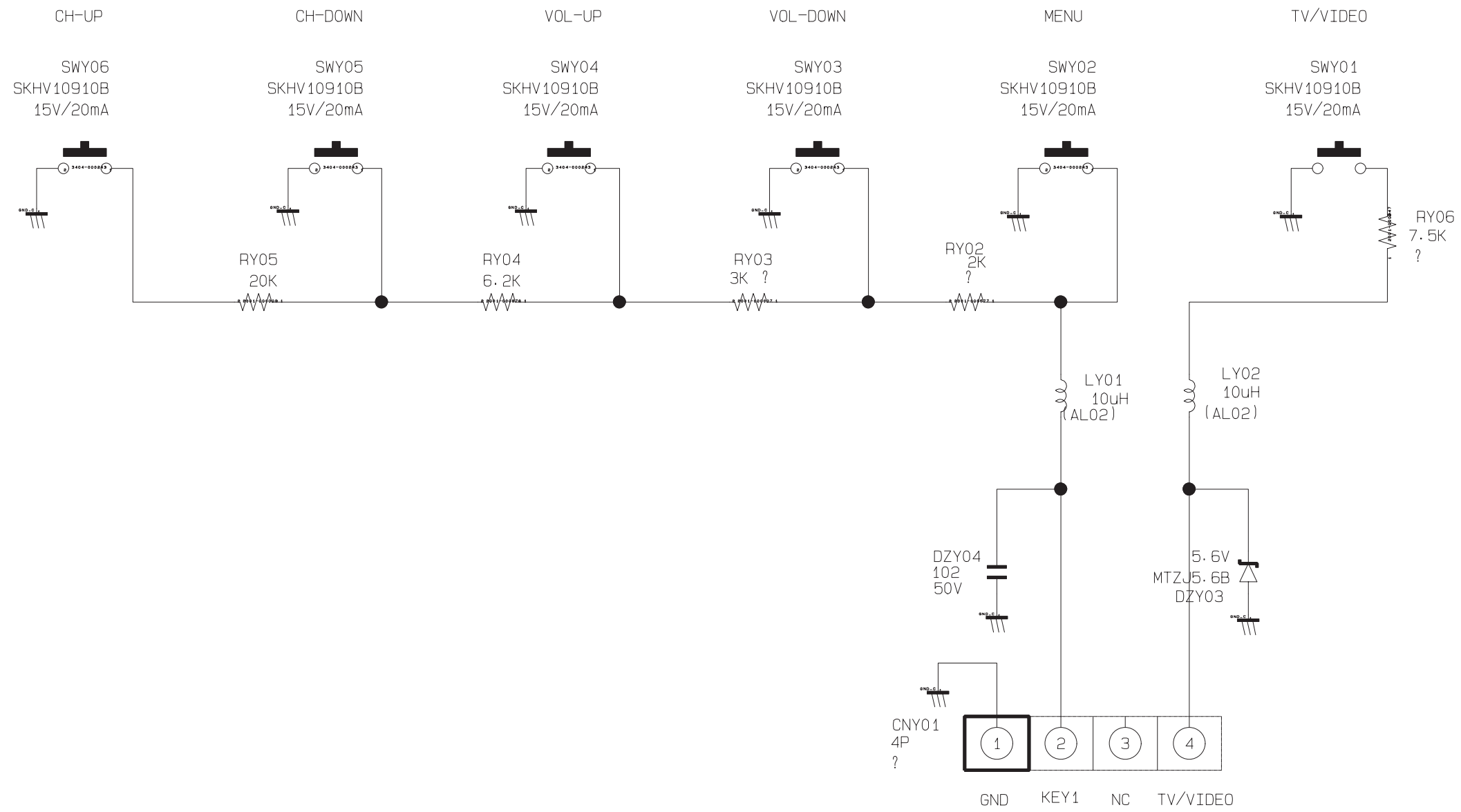


### OPTION

| LOC  | NT     | PAL       |
|------|--------|-----------|
| J701 | DELETE | JUMPER    |
| J702 | DELETE | JUMPER    |
| J703 | JUMPER | DELETE    |
| R701 | DELETE | 1/BW 100K |
| R702 | DELETE | 1/BW 100K |
|      |        |           |
|      |        |           |
|      |        |           |
|      |        |           |
|      |        |           |
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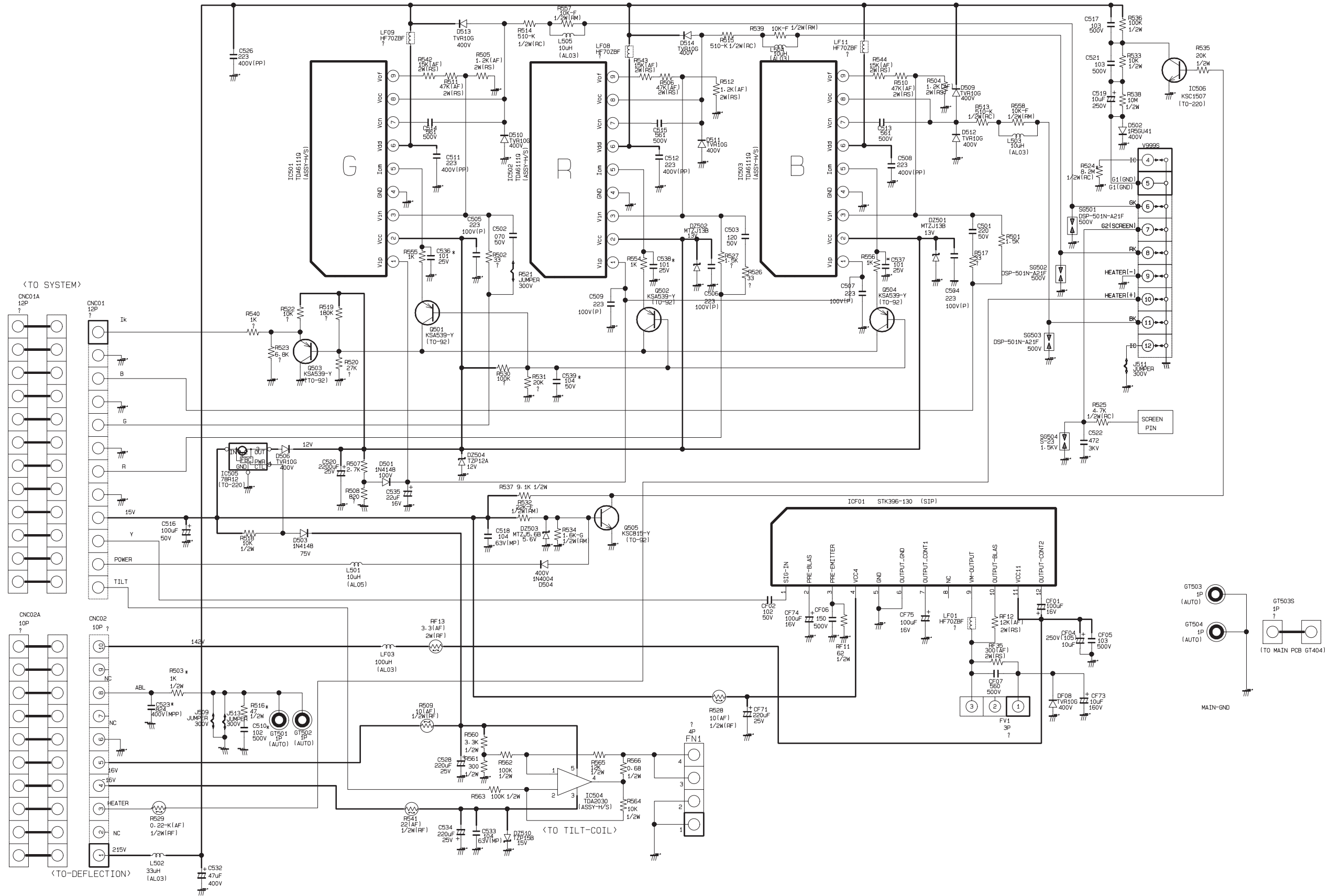
## 10-2 CONTROL

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# 10-3 CRT

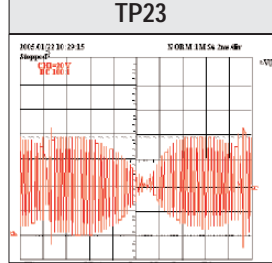
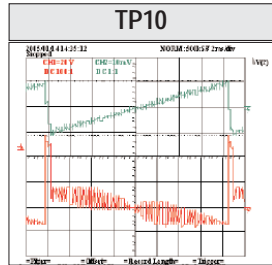
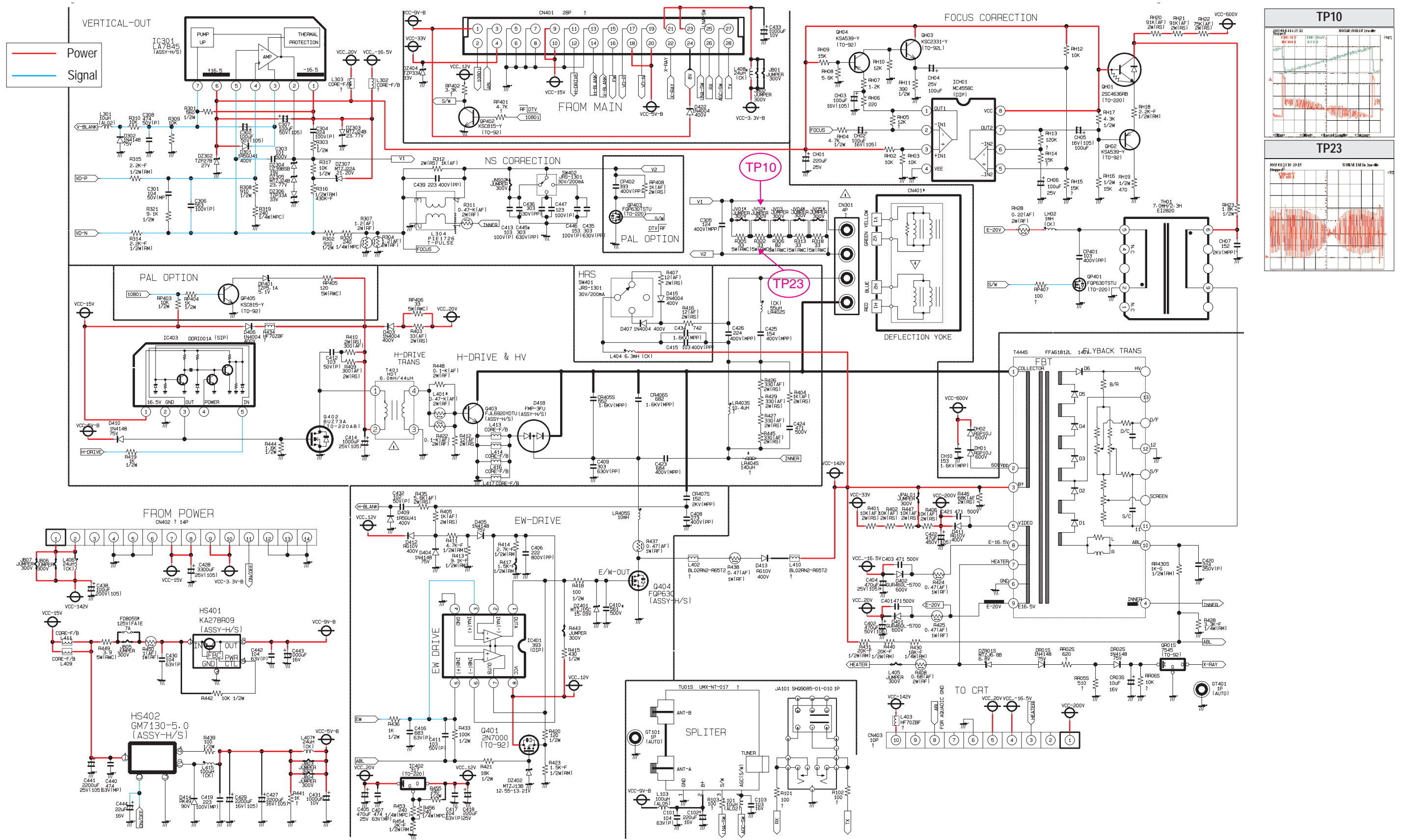
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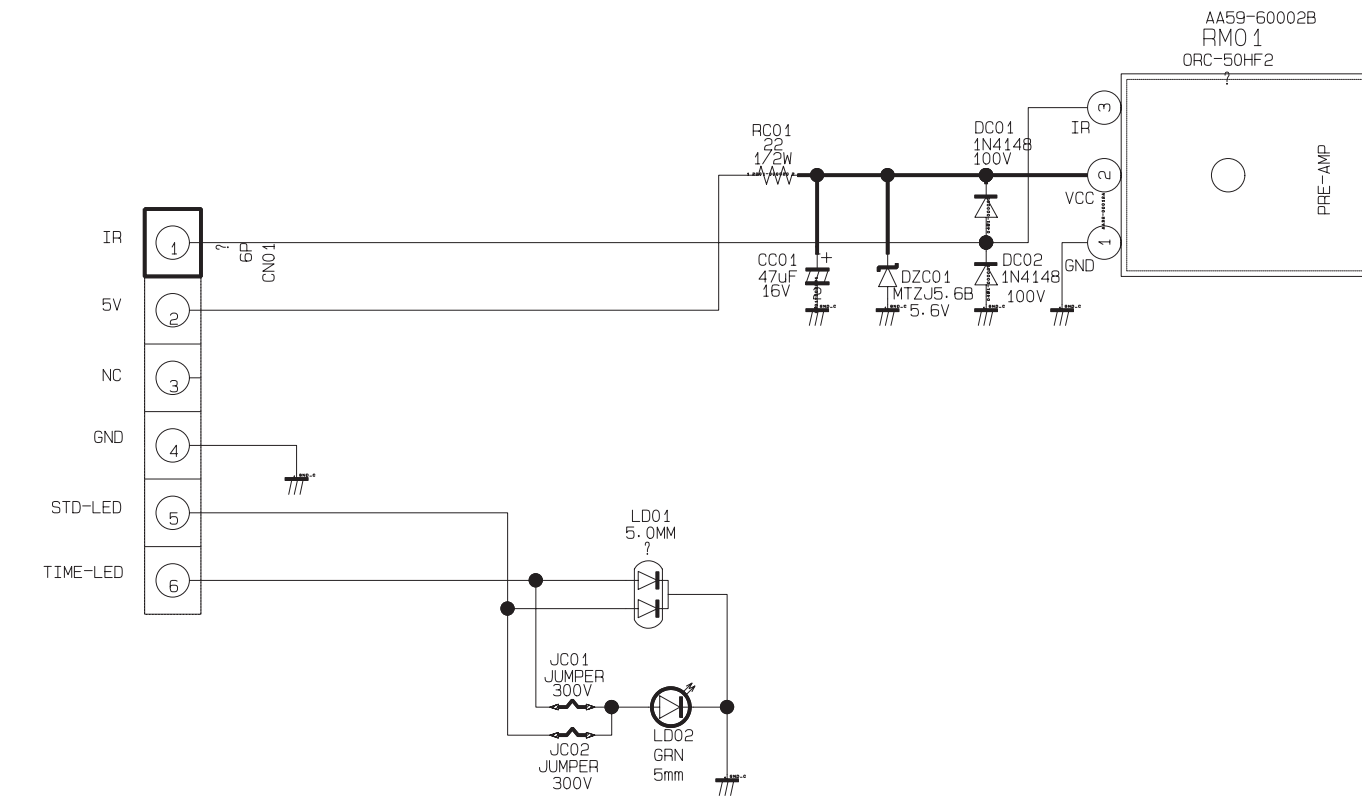
# 10-4 DEFLECTION

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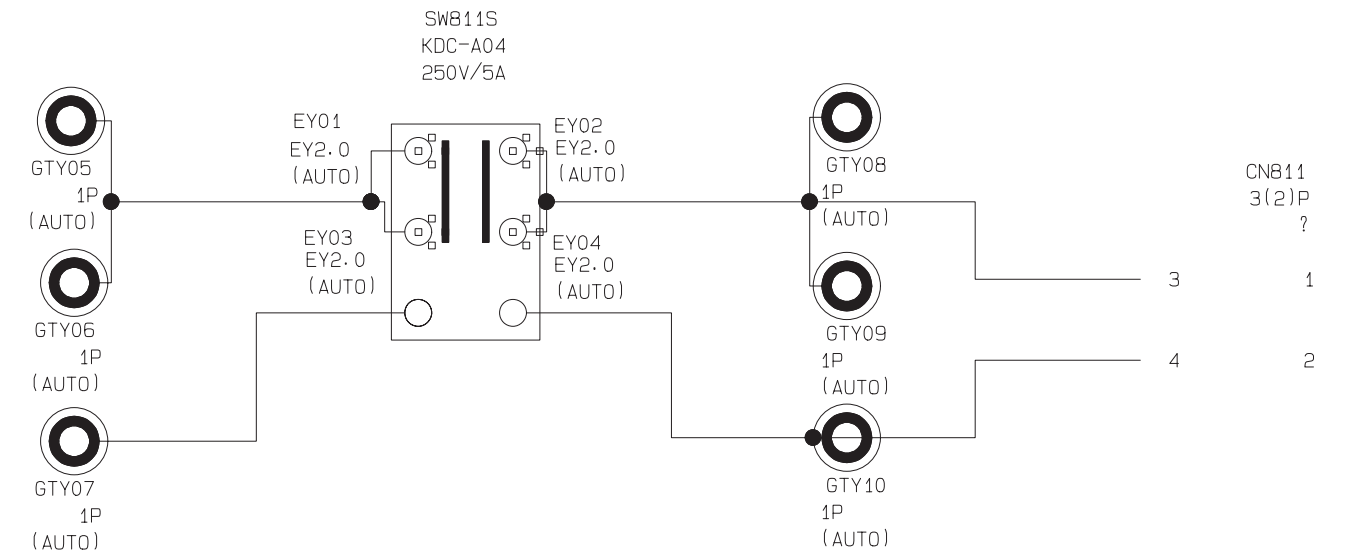
### 10-5 LED Module

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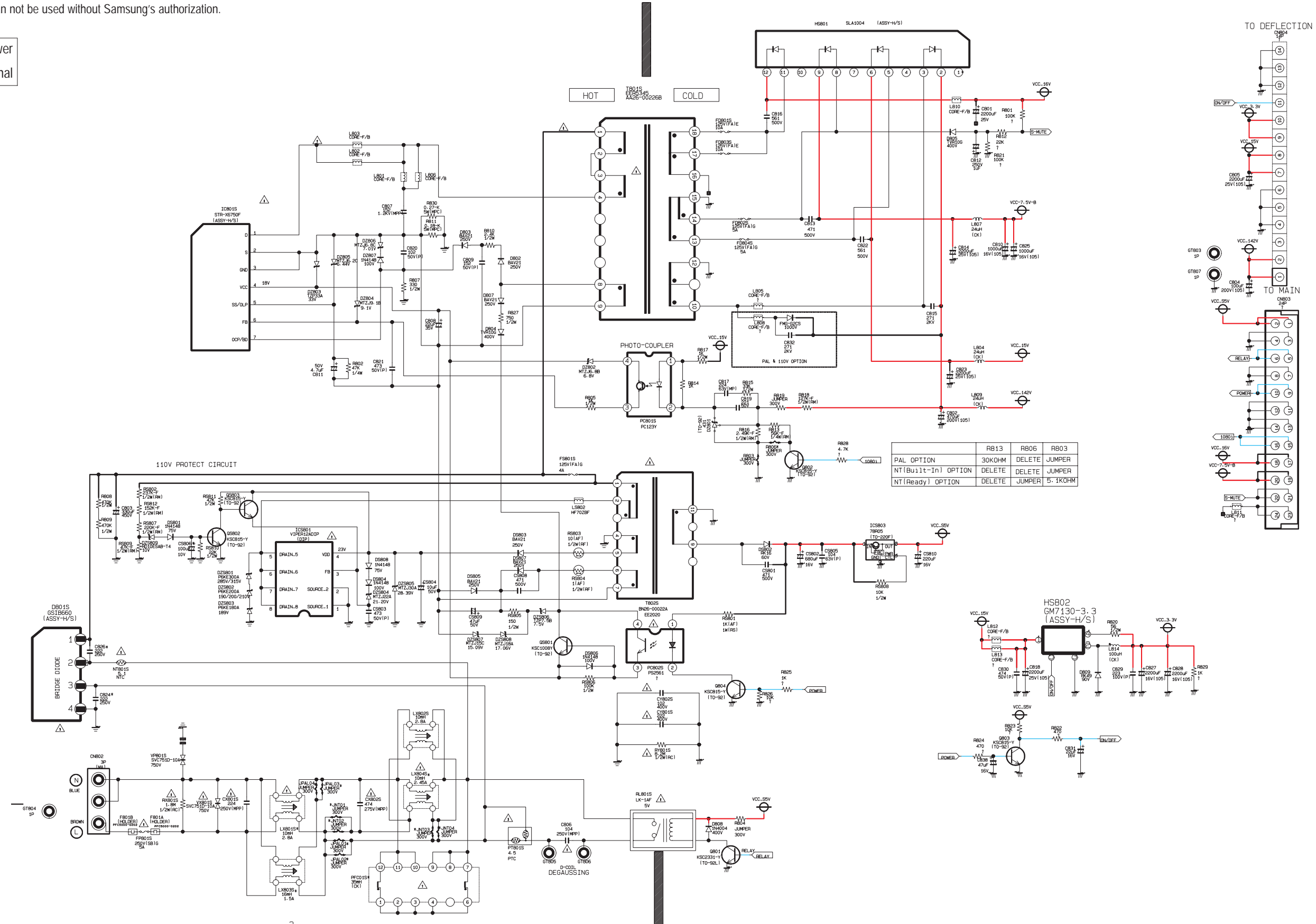
### 10-6 Master S/W

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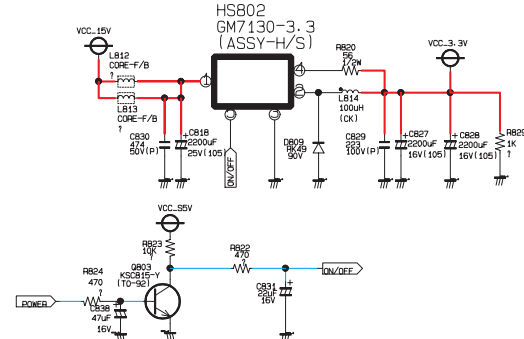
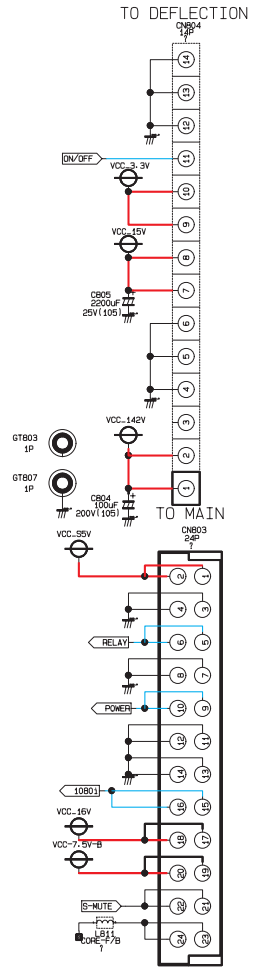


# 10-7 POWER

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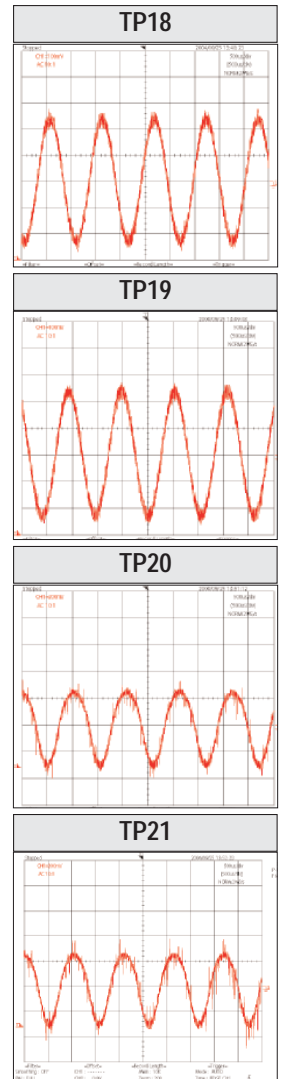
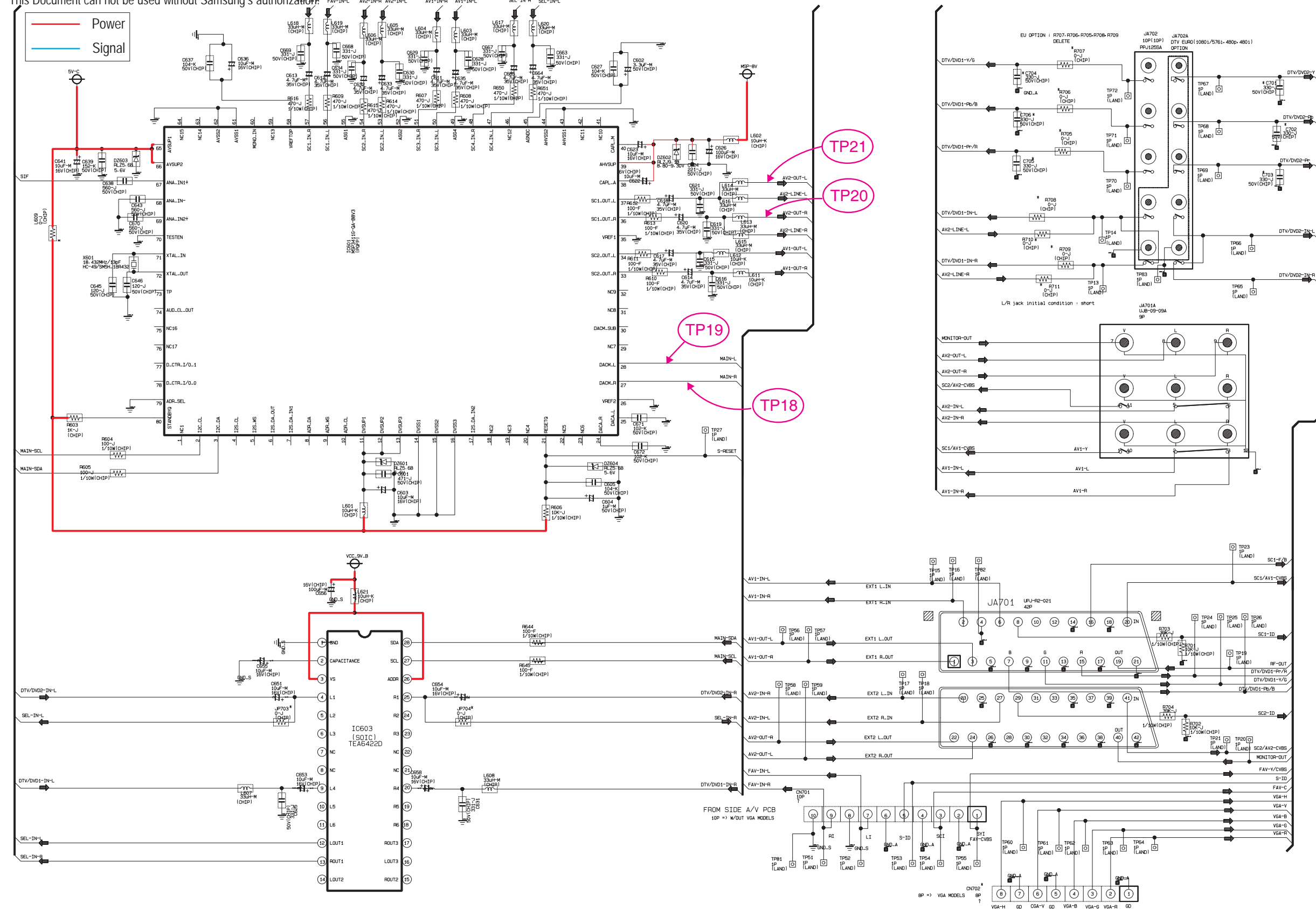
|                     |        |        |         |
|---------------------|--------|--------|---------|
|                     | RB13   | RB06   | RB03    |
| PAL OPTION          | 30KOHM | DELETE | JUMPER  |
| NT(Built-In) OPTION | DELETE | DELETE | JUMPER  |
| NT(Ready) OPTION    | DELETE | JUMPER | 5-1KOHM |



# 10-8 System Board

## 10-8-1 System Board 1

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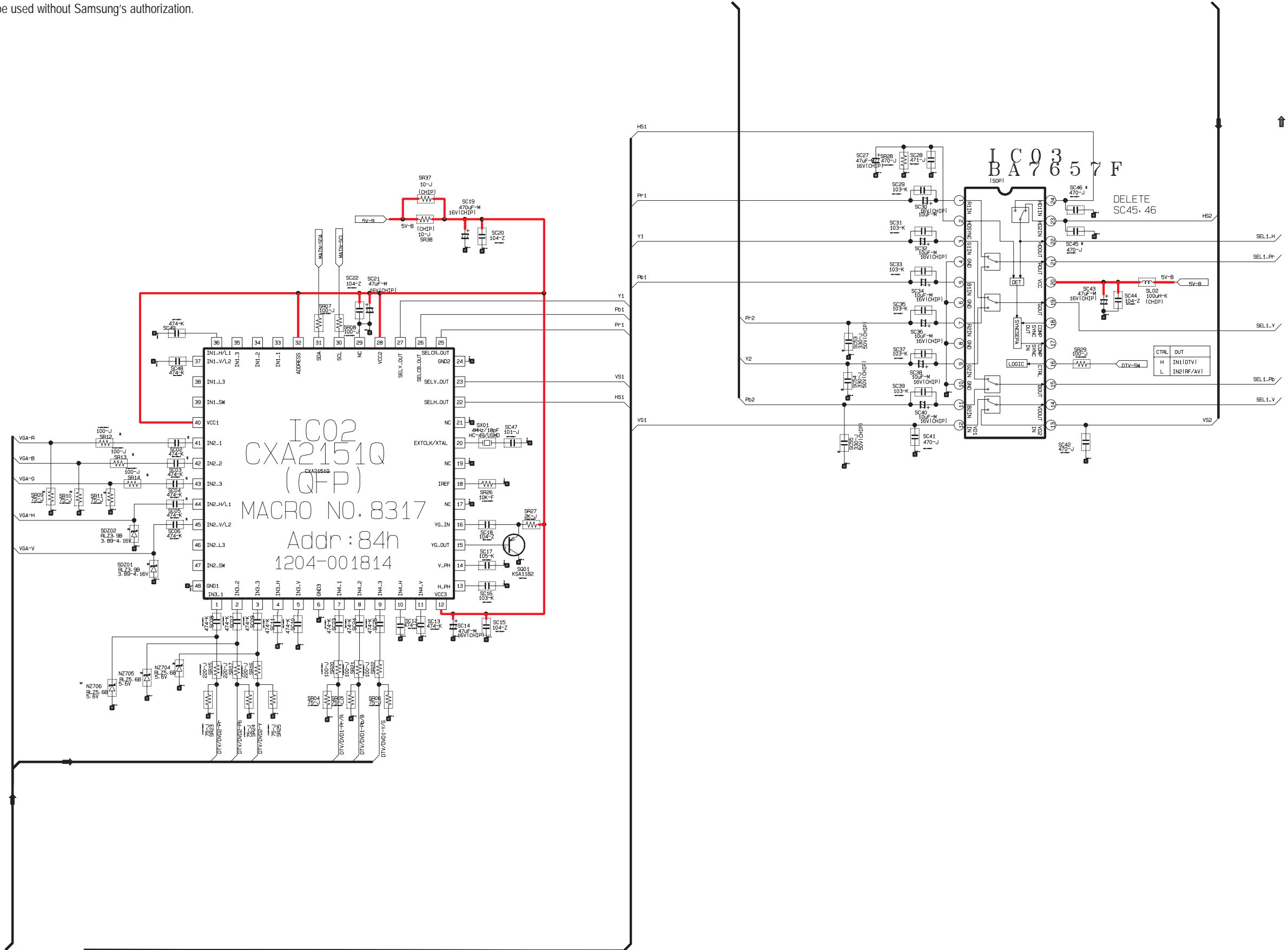
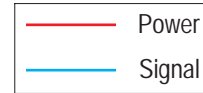






### 10-8-3 System Board 3

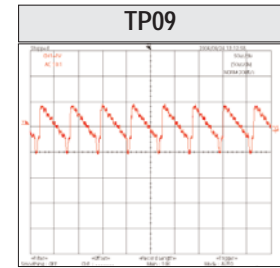
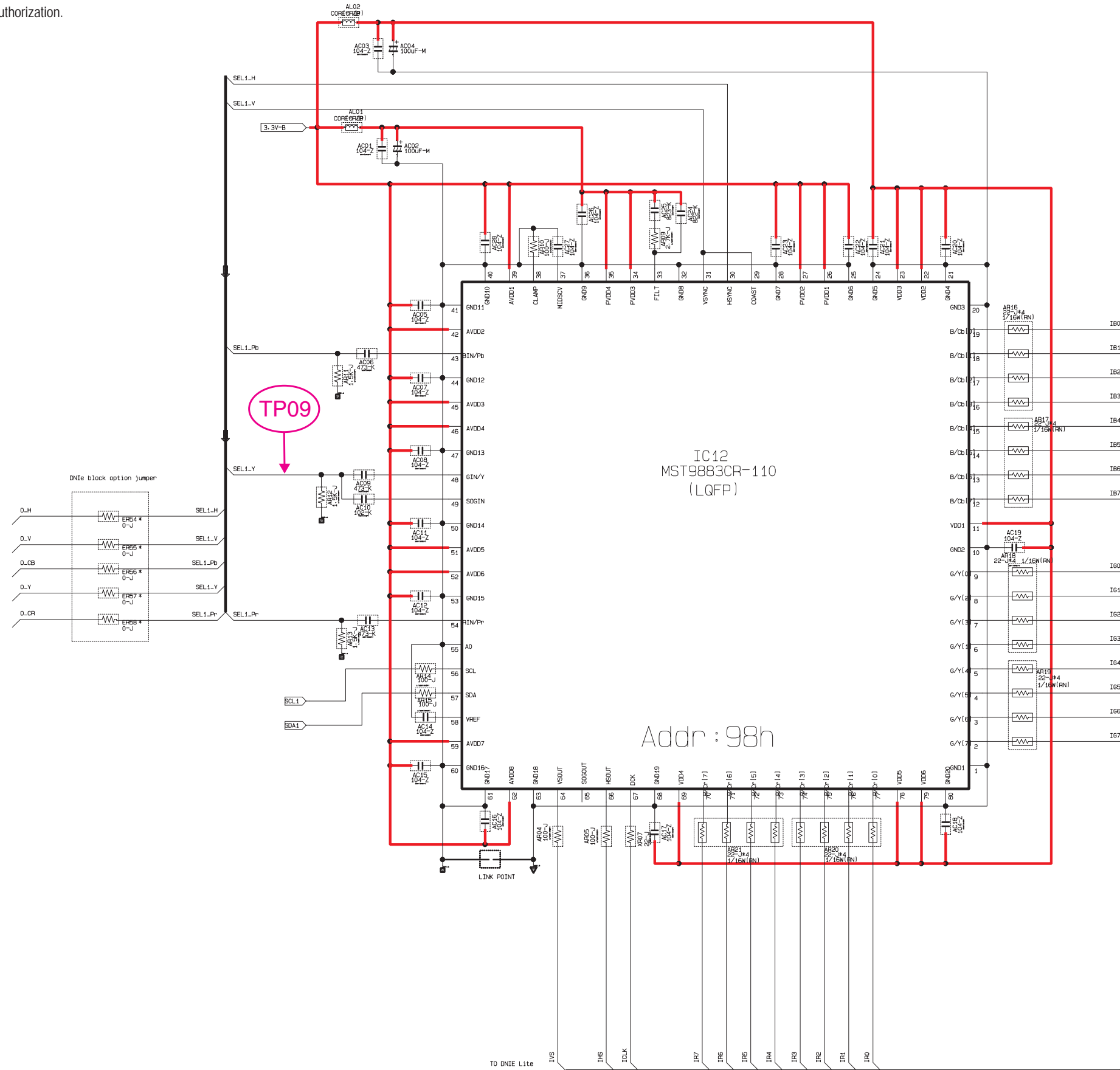
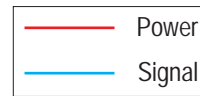
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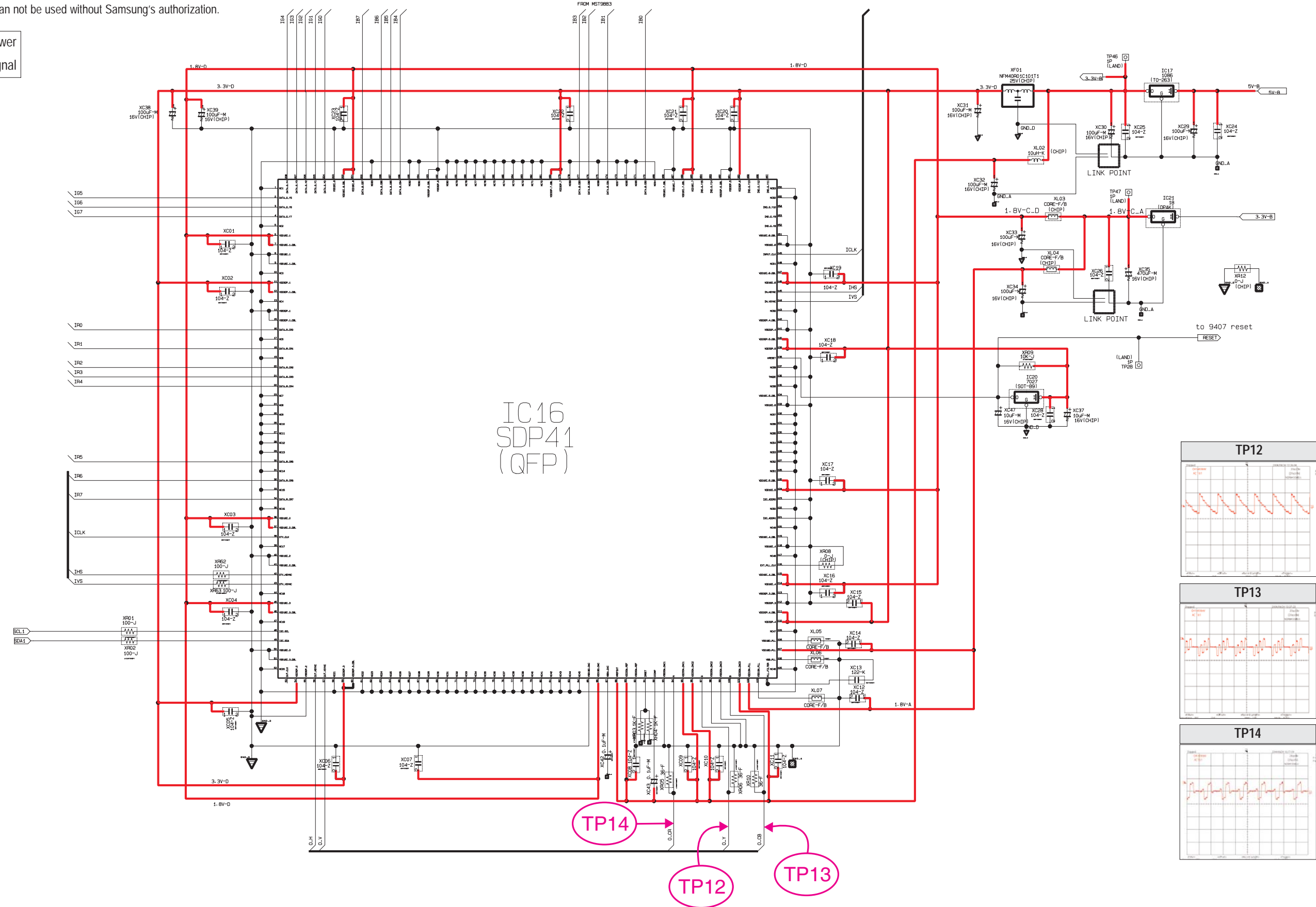
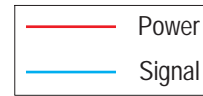
### 10-8-4 System Board 4

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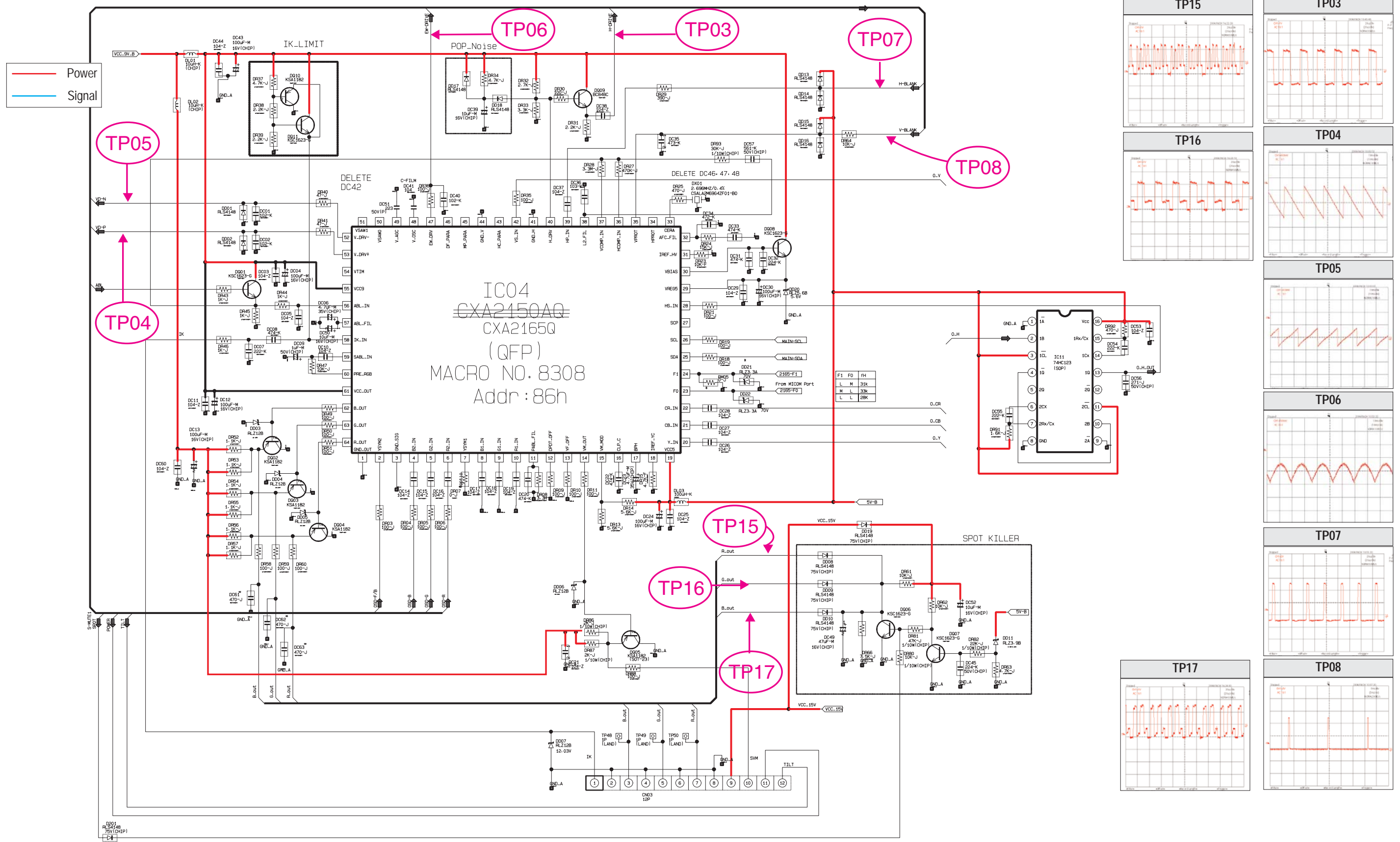
### 10-8-5 System Board 5

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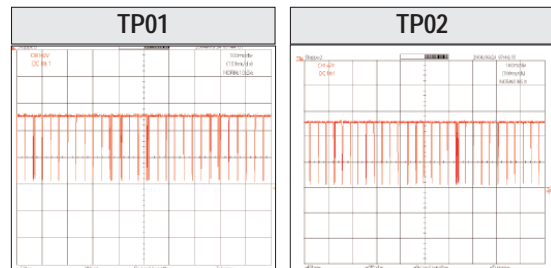
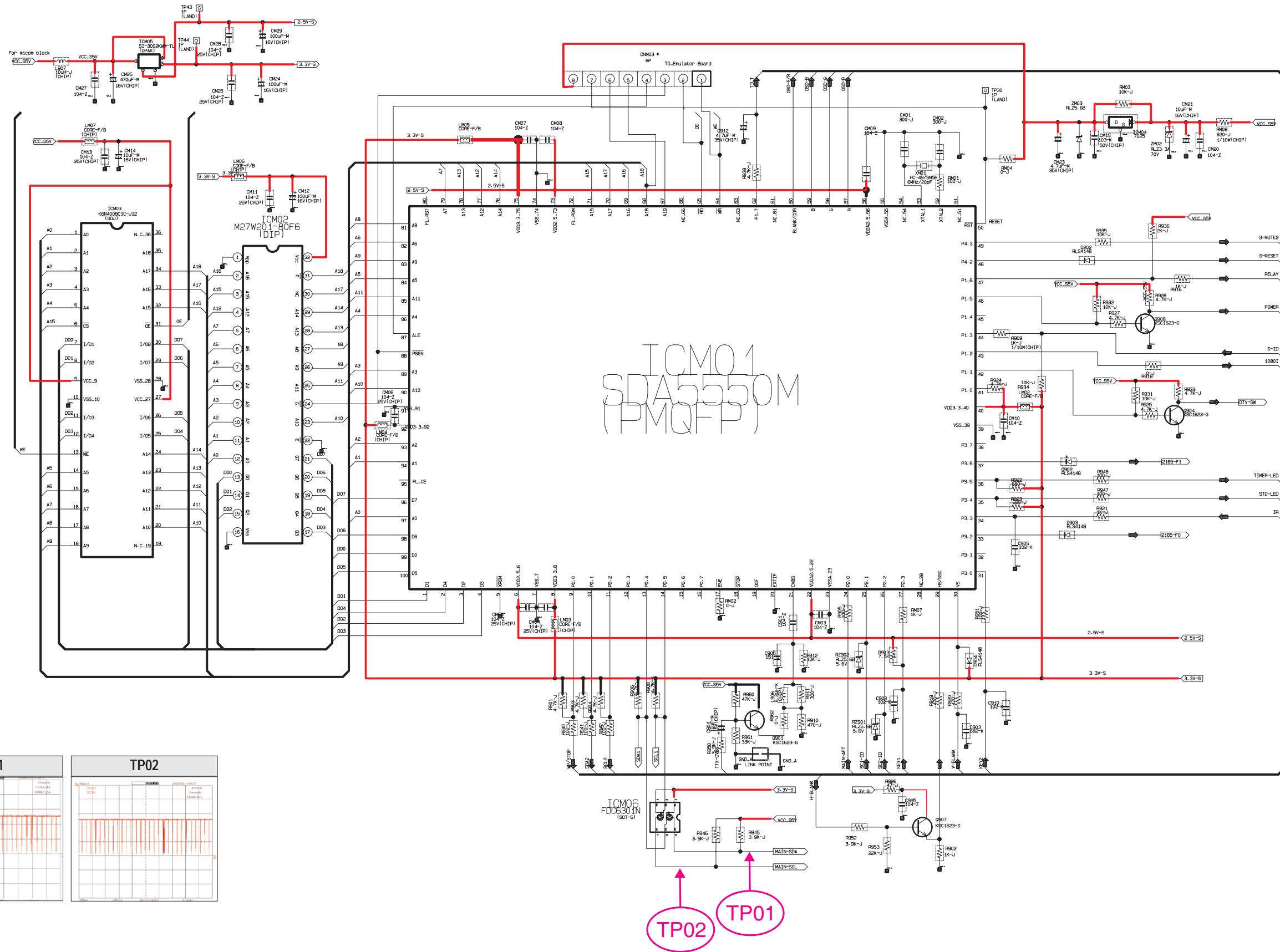
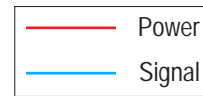
10-8-6 System Board 6

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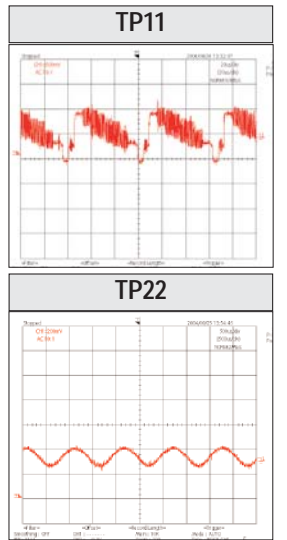
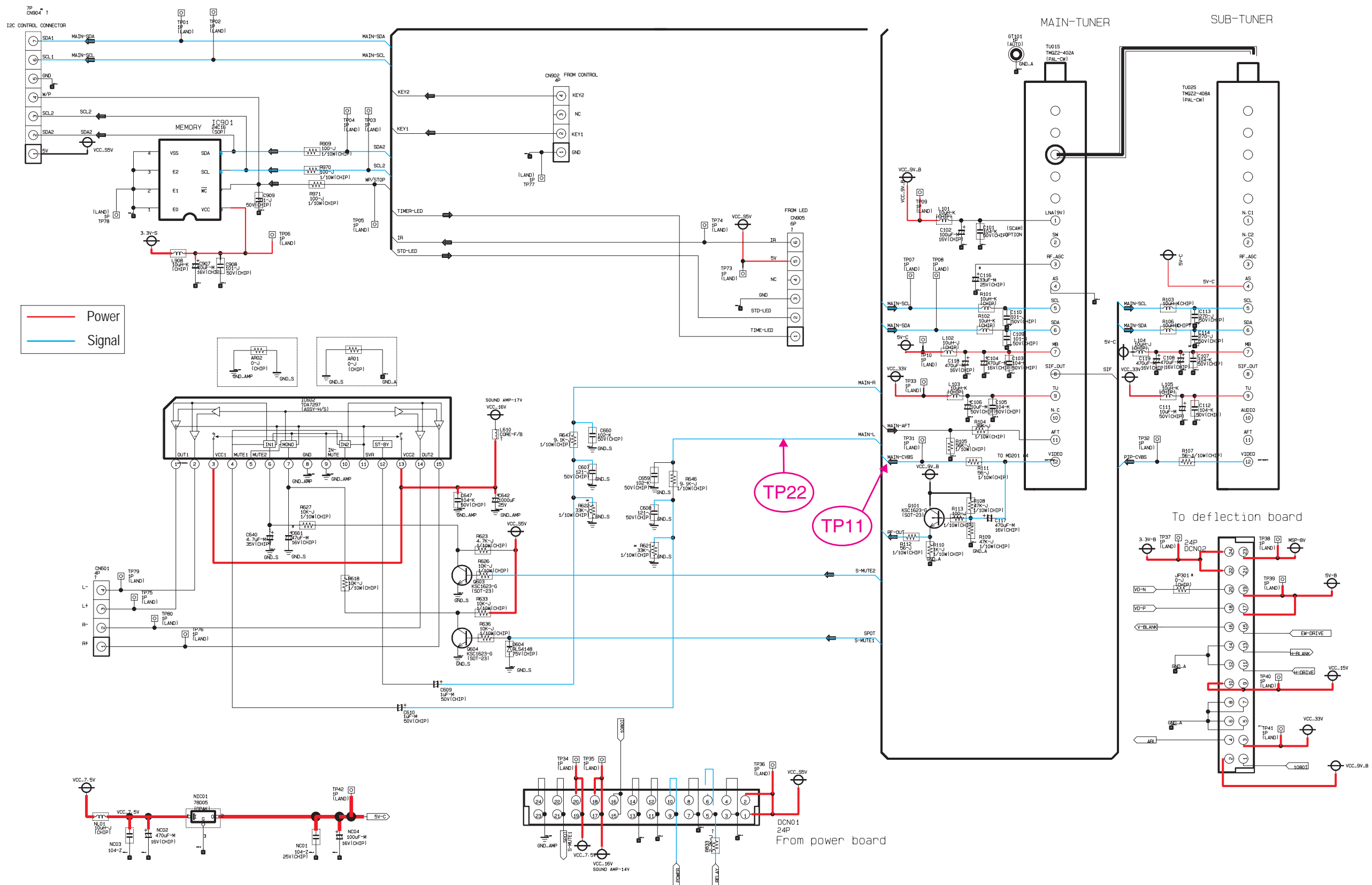
# 10-8-7 System Board 7

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### 10-8-8 System Board 8

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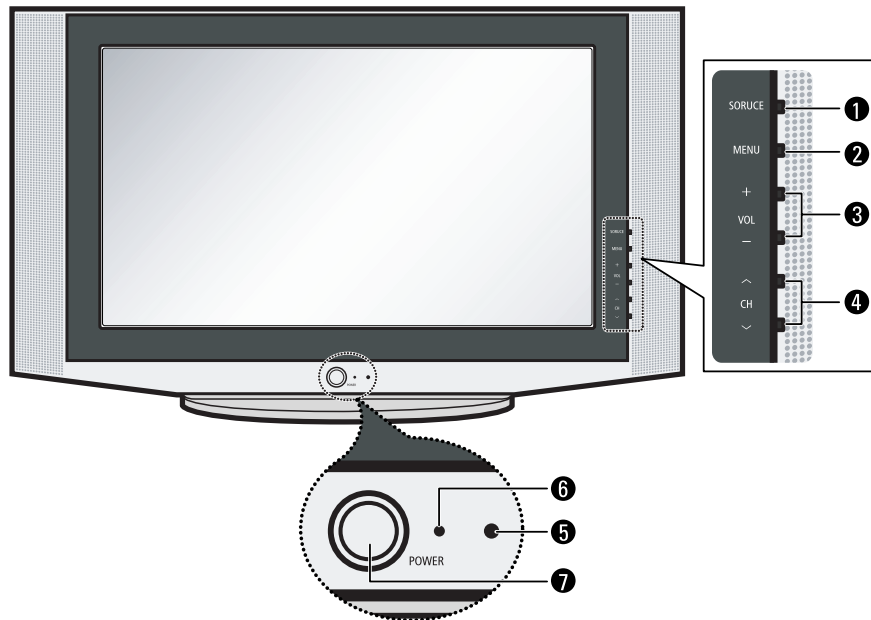


# 11. Operation Instruction & Installation

## 11-1 Product Features and Functions

### 11-1-1 Control Buttons

You can control your TV's basic features, including the on-screen menu.  
To use the more advanced features, you must use the remote control.



#### ① TV/VIDEO

Press to change between viewing TV programs and signals from other components.

#### ② MENU

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

#### ③ + VOL -

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

#### ④ ^ CH v

Press to change channels. Also press to move between items on the on-screen menu.

#### ⑤ Remote Control Sensor

Aim the remote control towards this spot on the TV.

#### ⑥ Stand-By Indicator

Lights up when you turn the power off.  
- Power Off ; Red  
- Power On ; Off  
- Timer On ; Green

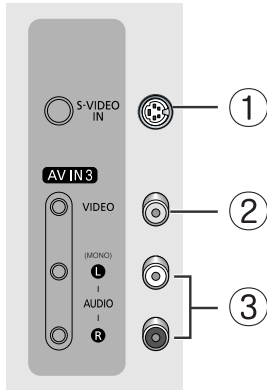
#### ⑦ POWER

Press to turn the TV on and off.



### 11-1-2 Side Panel Jacks

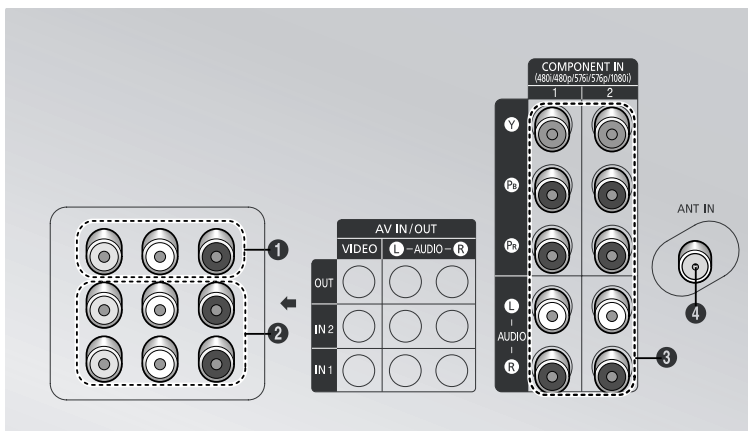
You can use the side panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game.



- ① **S-VIDEO INPUT**  
Connect a S-video signal from a camcorder or video game.
- ② **VIDEO INPUT**  
Used to connect a video signal from a camcorder or video game.
- ③ **AUDIO INPUT**  
Connect the audio signals from a camcorder or video game.

### 11-1-3 Connection Jacks (Rear)

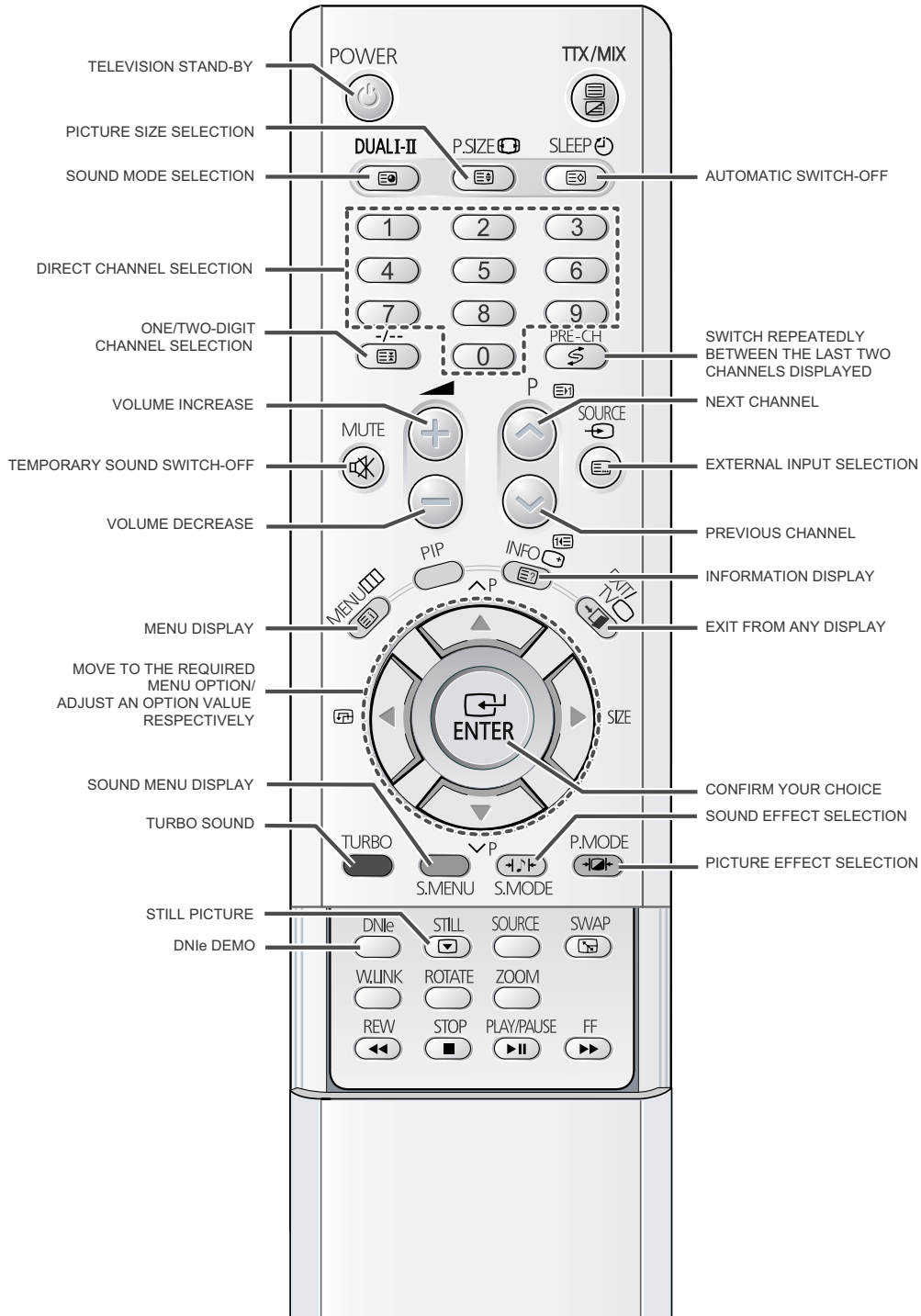
Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player. Because there are three sets of input jacks, you can connect three different A/V components (i.e., a VCR and a DVD, 2 VCRs, etc.)



- ① **MONITOR OUT (VIDEO / L-AUDIO-R)**  
Outputs for external devices.
- ② **AV-1 INPUT (VCR) -VIDEO/AUDIO(L/R)**  
**AV-2 INPUT (VCR) -VIDEO/AUDIO(L/R)**  
Inputs for external devices, such as VCR, DVD, video game device, or video disc players.
- ③ **COMPONENT 1 INPUT (DVD) / COMPONENT 2 INPUT (DVD)**  
VIDEO (Y/P<sub>B</sub>/P<sub>R</sub>) and AUDIO (L/R) inputs for Component.
  - Available format for Component inputs ;  
480i, 480p, 576i, 576p, 1080i - 50Hz
- ④ **VHF/UHF (75Ω)**  
75Ω Coaxial connector for Aerial/Cable Network.

### 11-1-4 Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV. You can also use your remote control to operate your VCR, DVD, Cable box, and Samsung Set-top Boxes.





# MEMO

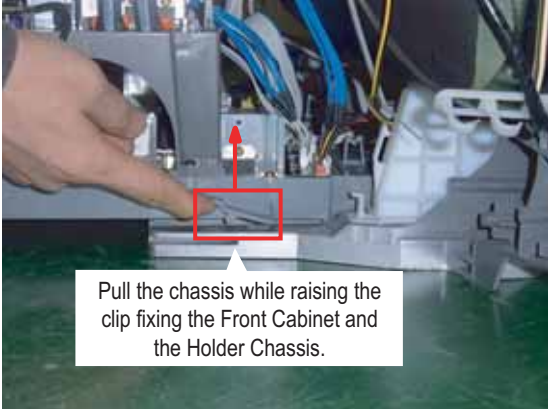


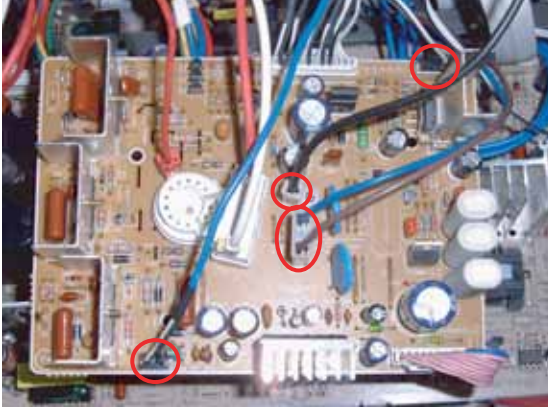
## 12. Disassembly & Reassembly


### 12-1 Overhaul Disassembly & Reassembly

#### 12-1-1 Disassembling the Cabinet

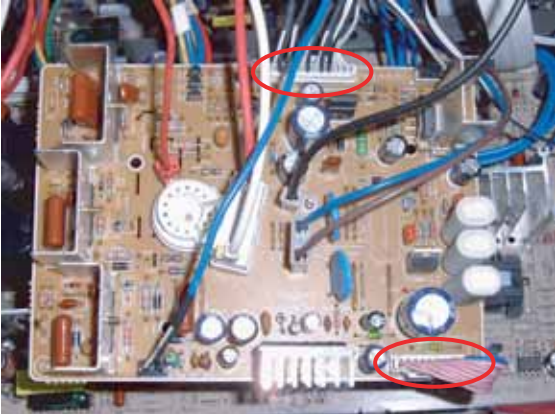
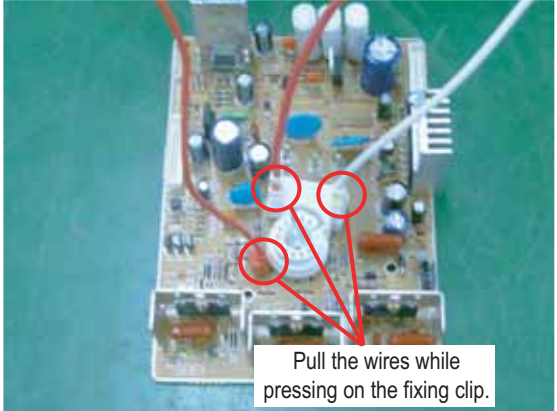
| Part Name      | Description  | Description Photo   |
|----------------|--|---|
| Back Cover     | <p>Remove the 12 screws fixing the Back Cover.<br/>: RH, +, B, M4, L15, ZPC(BLK), SWRCH18A<br/>6003-001026</p> <p>Tap the upper part of the Back Cover 2 or 3 times and pull the Back Cover to separate it from the unit.</p> <p>⚠ Notice: Disassemble the product after disconnecting the power cord and discharge the unit to prevent an electric shock and damage to the product due to static electricity.</p> |   |
| Terminal Board | <p>Remove the 4 screws fixing the Terminal Board and the Jacks.<br/>: RH, +, B, M4, L15, ZPC(BLK), SWRCH18A<br/>6003-001026</p> <p>Lift the fixing holder up at ○ and pull the Terminal Board to separate it from the unit.</p>  |  |

### 12-1-2 Disassembling the CRT and Chassis

| Part Name      | Description  | Description Photo  |
|----------------|--|--|
| Chassis Holder | <p>Separate the Ass'y Holder chassis from the Front Cabinet.</p> <p>Pull the Chassis Holder lifting the fixing clip up.</p> <p>⚠ Notice: Pulling the Chassis Holder by force may damage the clip or the connector. Pull the Chassis Holder just until the clip comes off the hole.</p>   |    |
|                | <p>Separate the Speakers, the Side AV Wire, the Side Control, and the Remote Control Sensor Cable from the Front Cabinet and the System Board.</p> <p>Separate the wire from the Wire fixing holder at ○.</p> <p>⚠ Notice: Since there is a clip to connect the Connector Header in the Wire Connector, pulling it by force may damage the clip or the connector. Press the clip down completely and pull the connector.</p> |   |
|                | <p>Separate the D-Coil and power cable from the Front Cabinet and Power Board.</p> <p>To separate the power cord, slide the fixing clip and lift the cable up.</p>   |  |
|                | <p>Separate the CRT Ass'y from the CRT</p> <p>Separate the TBC wire, GND, VM and Tilt cables from the CRT Ass'y sequentially.</p>  |  |

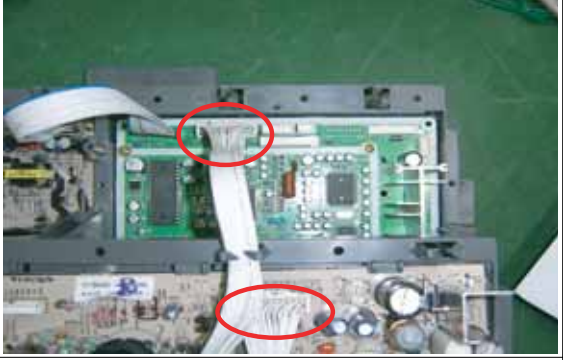
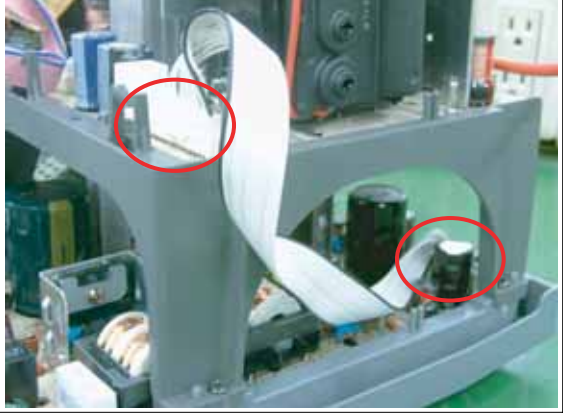


| Part Name      | Description  | Description Photo  |
|----------------|--|--|
| Chassis Holder | <p>Separate the cables connecting the FBT and the CRT.</p> <p>⚠ Notice: Since there may be a remaining high-voltage current within the CRT, take care not to touch the CRT hole with metal or a part of yourself when separating the cables.</p> |  |

### 12-1-3 Disassembling the CRT Ass'y

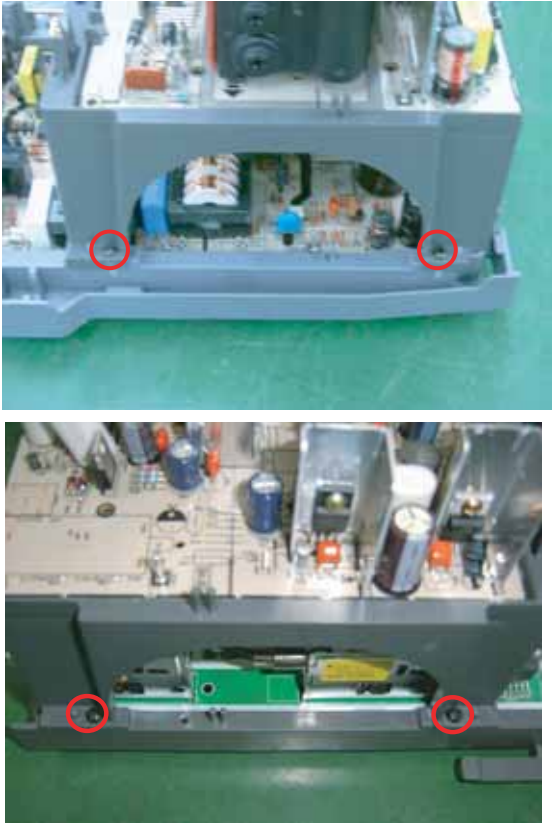


| Part Name | Description   | Description Photo  |
|-----------|---|--|
| CRT Ass'y | <p>Separate the cables from the Deflection/System Board and CRT Ass'y.</p>  |   |
|           | <p>Separate the wires from the FBT of the Deflection Board and the CRT Ass'y.</p> <p>To separate the thick red and white wires, pull the wires while pressing the push-type clip at the connector.</p> <p>To separate the thin red wire, insert a pin in the small hold next to the hole and pull the wire.</p> <p>⚠ Notice: Take care when separating the wires because pulling the wires by force may damage the socket. In addition, separate the wires on a flat and clean surface so as to prevent scratching of the material and the PCB.</p> |  |



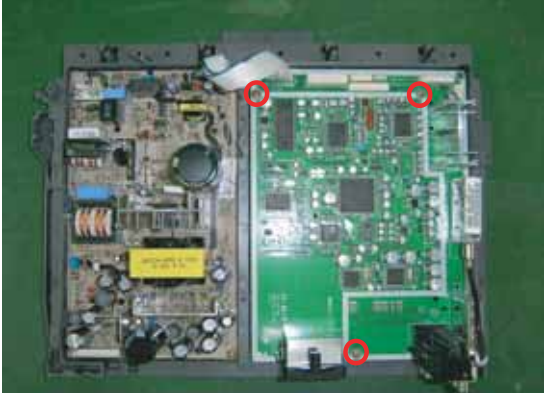
### 12-1-4 Disassembling the Deflection Board

| Part Name        | Description   | Description Photo  |
|------------------|---|--|
| Deflection Board | Separate the 28 pin cable from the System Board.  |    |
|                  | Separate the 14 pin cable from the Power Board.   |   |
|                  | <p>Separate the cable from the Splitter and the Tuner.</p> <p>First separate the cable from the Splitter using a tool such as nippers.</p> <p>⚠ Notice: Since pulling the wire by force may damage the coating of the wire, separate the wire holding the metal part with the tool.</p> |  |
|                  | <p>Remove the 3 screws fixing the Deflection Ass'y.<br/>: PWH, +, B, M3, L10, ZPC(YEL), SWRCH18A<br/>6003-001023</p>  |  |

## 12-1-5 Disassembling the Power Board

| Part Name   | Description  | Description Photo  |
|-------------|--|--|
| Power Board | <p>Remove the 4 screws to separate the holder fixing the Deflection Board Holder.<br/> : RH, +, B, M4, L15, ZPC(BLK), SWRCH18A<br/> 6003-001026</p> <p>Separate the holder.</p>  |   |
|             | Separate the cable from the System Board.  |  |
|             | <p>Remove the 2 screws fixing the Power Board<br/> : PWH, +, B, M3, L10, ZPC(YEL), SWRCH18A<br/> 6003-001023</p> <p>Since there is a holder fixing the Power Board, lift the part where screws have been installed and slide the board to separate it.</p> <p>⚠ Notice: Lifting the Power Board by force may damage the fixing holder and the PCB, therefore separate the board with care.</p> |  |

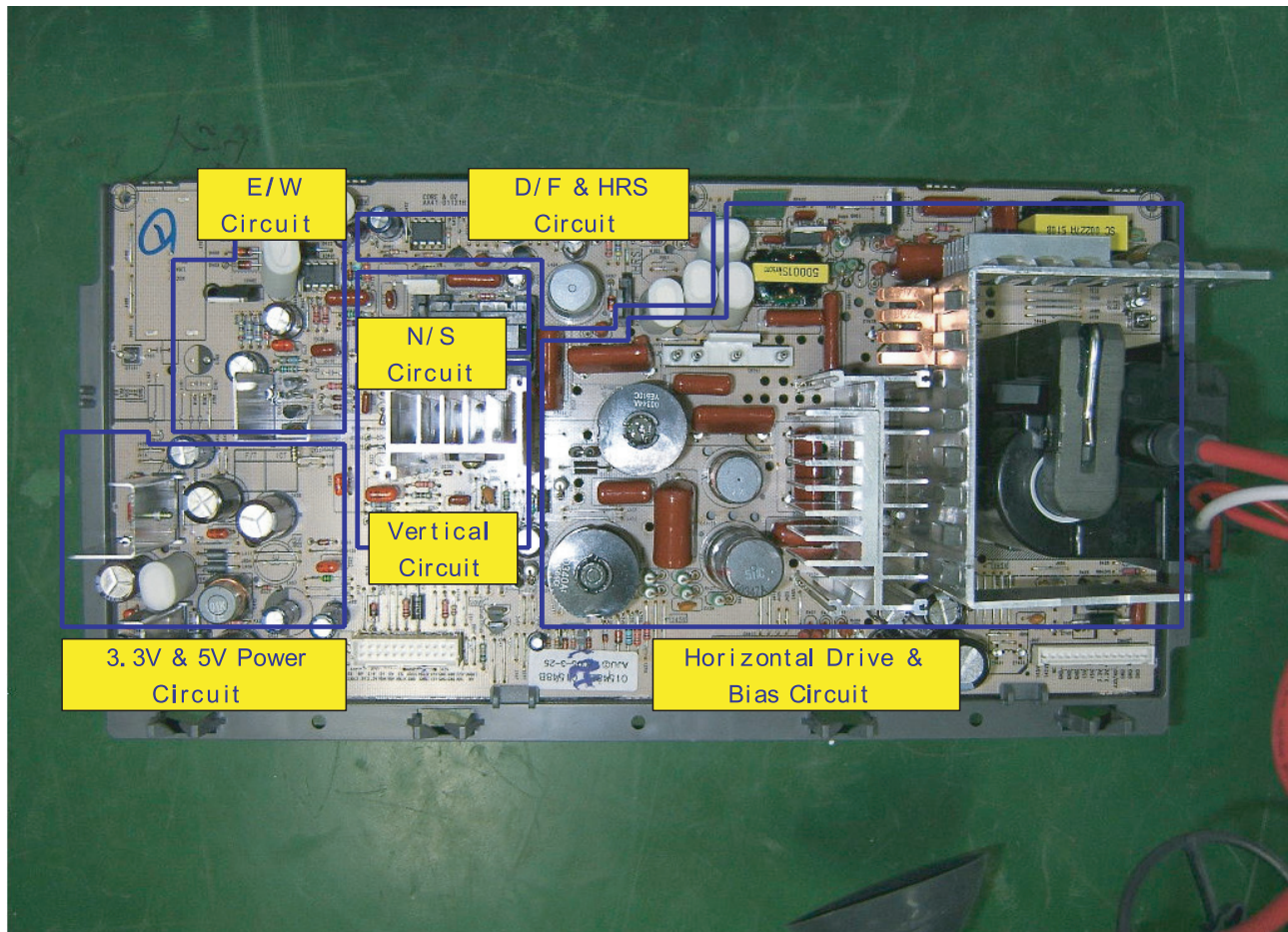
### 12-1-6 Disassembling the System Board

| Part Name | Description   | Description Photo  |
|-----------|---|--|
|           | <p>Remove the 3 screws from the Bottom Shield Case.<br/>                     : PWH, +, B, M3, L10, ZPC(YEL), SWRCH18A<br/>                     6003-001023</p> <p>Since the Optical Jack (○) protrudes out of the case, lift the AMP side up, slide forward and separate the board.</p> |  |



## 13. Circuit Description

### 13-1 Overall Block Description



※ Bias Circuit structure of S62A is the same as the existing S61A circuit

■ Circuit Constitution.

#### 1. Horizontal Bias Part

- Controls the high voltage generation and horizontal bias.. FBT, HDT, CT condenser etc.

#### 2. Vertical Bias & N/S (North / South) Correction Circuit

- While mostly controlling the vertical bias, also corrects the picture lowering of top and bottom. ..LA7845, N/S TRANS, etc.

#### 3. HRS (Horizontal Raster Shift) Correction Circuit

- A correction circuit of Linearity distortion on the left and right side of a picture which is caused by awry electron beam from an electron gun.. Correction S/W and surrounding circuits.

#### 4. D/F (Dynamic Focus) Correction Circuit.

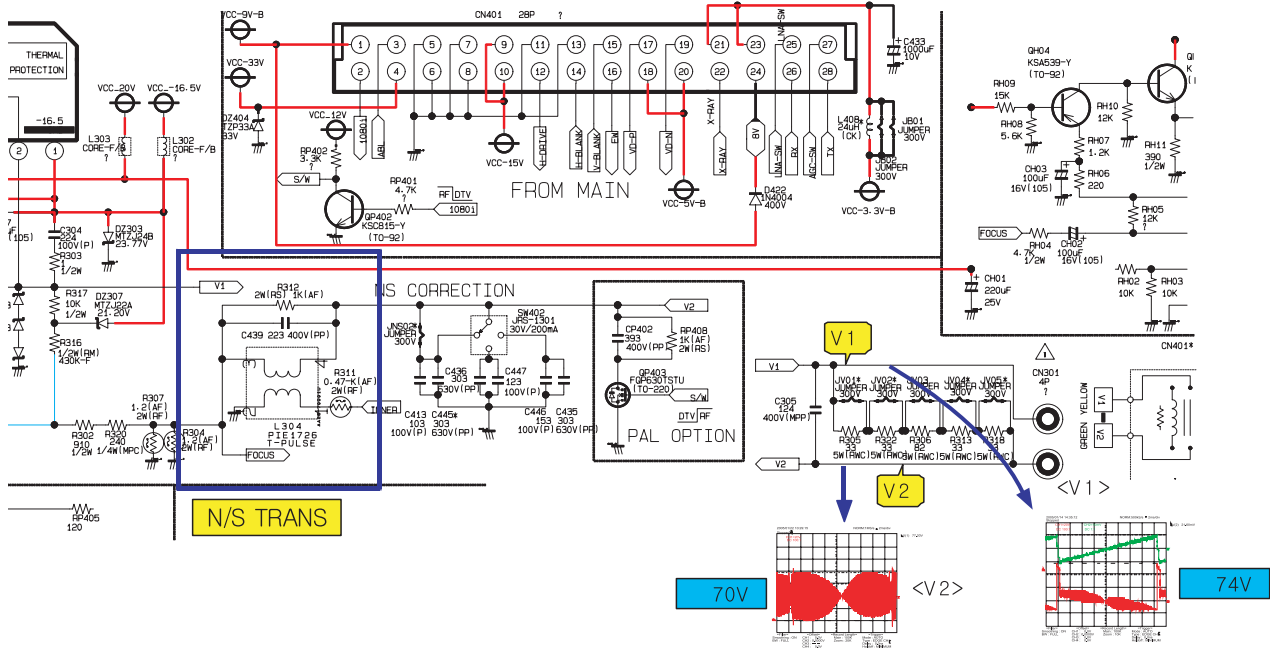
- Improved Focus feature circuit due to the widened angle of a picture;!.D/F Trans, Vertical/Horizontal circuit

#### 5. E/W (East / West) Correction Circuit.

- A circuit for correcting the spool shape which appears on the left and right part of a picture. This is caused by the difference between the distances from the center of a picture to each corner. KA393, FQP630 etc. (Adopt PWM circuit)

# 13-2 Partial Block Description

## 13-2-1 Vertical & N/S Correction Circuit



Ⓐ Understanding of N/S Circuit and Operation Principle.

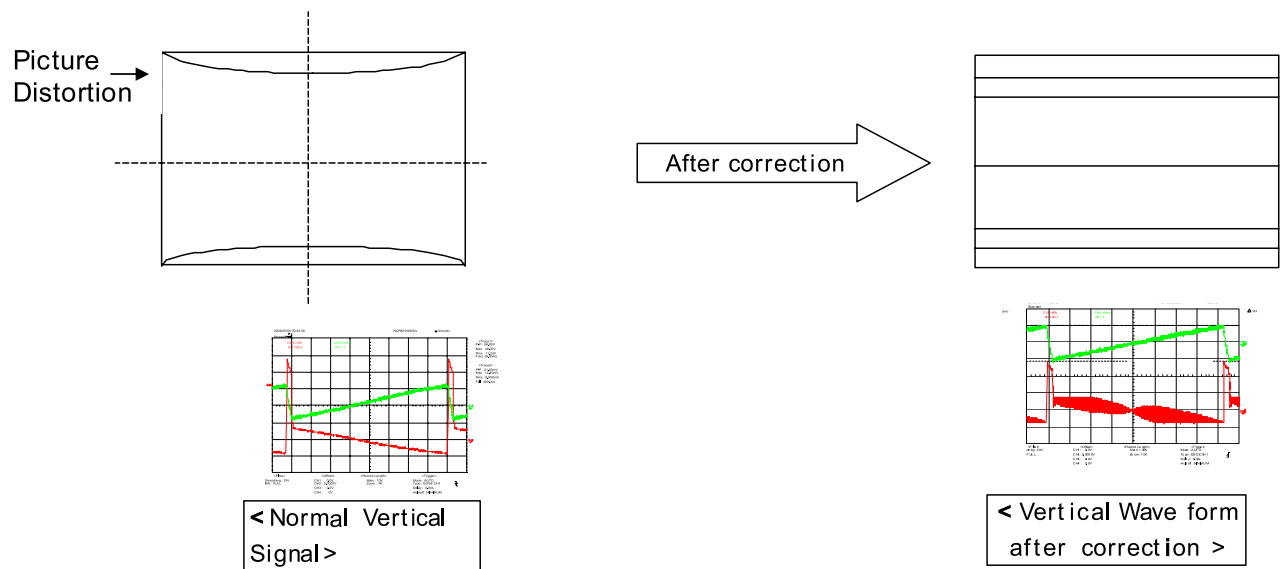
▶ What is a N/S correction circuit?

- If the bias angle of a picture widens, the distance from the center of a picture to each corner becomes farther as it moves to periphery. This causes the picture being distorted (Picture Lowering) vertically in a shape of a spool because of the strong bias at four corners which are the farthest from the center.  
Correction effect to the amount of a correction signal can be made by crossing Parabolic current of a vertical period over the vertical bias current and applying it.

▶ N/S Circuit Constitution and Operation Principle.

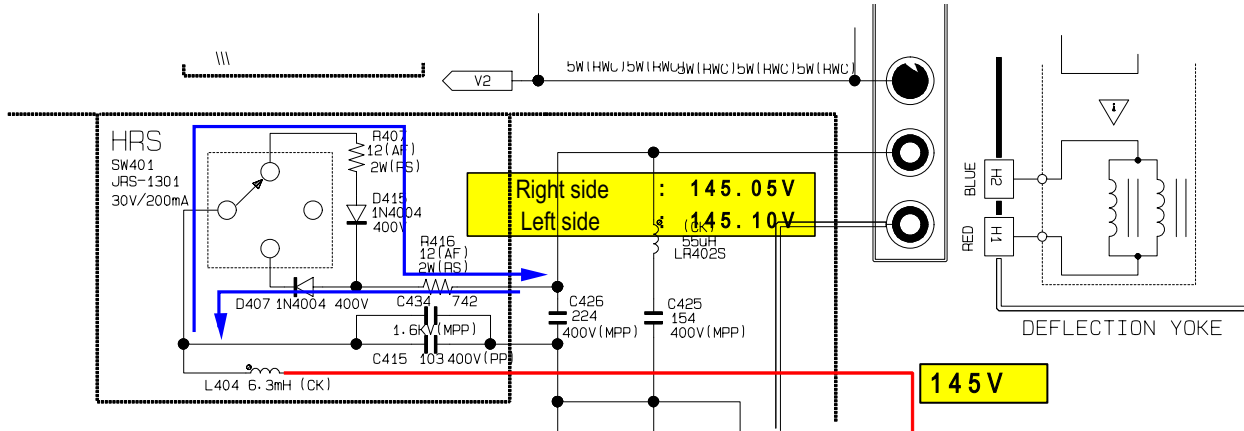
- Consists of L304, C305, C439, R312. Symmetrize the up and down amplitude using the saturable reactor of L304 and adjust N/S Gain by controlling the capacity value of C305 and C439  
If the correction vector is excessive, one can slightly reduce the resistance of R312

ⓑ Comparison before and after of N/S signal correction





### 13-2-2 HRS Correction



Ⓐ Understanding and Constitution of HRS Correction

► What is HRS (Horizontal Raster Shift) circuit?

- When electron BEAM emanates from CRT, it must form the image evenly on the center of a screen. However, the left-right linearity can be awry due to the micro-distortion of horizontal angle while producing CRT. HRS is a compensatory circuit which crosses DC voltage over CS condenser on horizontal output board to correct the distortion.

Ⓑ HRS Circuit Operation and Picture Movement

► Operational Principle.

- HRS circuit consists of R407, D415, D407, SW401, C415, L404. If switch SW401 (Service S/W) to the direction of R407, it raises the C426 CS condenser voltage through D415 and the picture moves to right. If switch SW401 to the direction of D417, the picture moves to left.

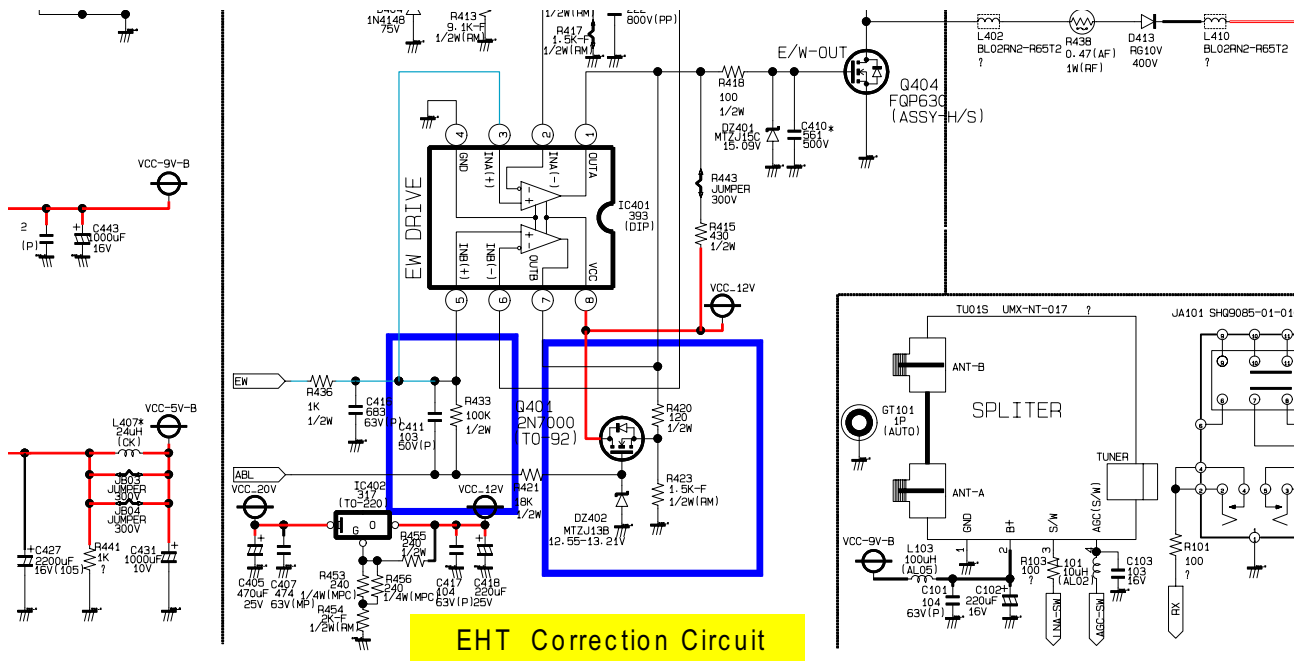
C415 is functioning as a condenser which stops generating current. It can control the left-right movement since the rechargeable voltage varies as the condenser capacity value varies. That is, the larger the C415 capacity value becomes, the bigger the left-right movement will be.

► Picture Movement during 0HRS Connection

- \* Direction of SW407 Switch .... Center : Not corrected.
- .... D415 : moves to the right of a picture
- .... D417 : moves to the left of a picture

| Condition | Total Length of a Picture Moved (m/m) |          |         |          |         |          |
|-----------|---------------------------------------|----------|---------|----------|---------|----------|
|           | Left                                  |          | Center  |          | Right   |          |
|           | To Left                               | To Right | To Left | To Right | To Left | To Right |
| After     | 5.5                                   | 6.5      | 1.5     | 2        | 6.5     | 6        |

## 13-2-3 E/W Circuit Block



## (a) Understanding of E/W Circuit

## ► What is an E/W (East / West) Correction Circuit?

- If the bias angle of a picture widens, the distance from the center of a picture to each corner becomes farther as it moves to periphery. This causes the picture being distorted (Picture Lowering) horizontally in a shape of a spool because of the strong bias at four corners where are the farthest from the center. E/W is a circuit which corrects the spool-shape on the left and right part by crossing Parabolic wave form over the horizontal output board and controls the current which flows through terminal no.47. Parabolic wave comes out from terminal no.47 of CXA2165 CHROMA IC(IC31)

It also controls the horizontal-related factors of Factory data such as picture size, size change and Parabola gain change. It has an essential role of minimizing the picture swaying (High Voltage Regulation)

## (b) E/W Circuit Constitution and Operation

## ► E/W Circuit Constitution and Operation Principles.

- E/W circuit consists of KA393(comparator), FQP630(output TR), and other parts. This uses a method in which PWM controls the circuit using a comparator. The advantage of this PWM Control method is that POWER Loss hardly occurs and generates little heat when using low H/S.

Input E/W signal to terminal no 3,5 of IC401(KA393) and carrier wave to terminal no 2,6. Carrier wave can be made by reducing the horizontal collector voltage and integrating the wave form using D405,R414 and C406.

Then the carrier wave is compared with E/W signal in IC401 and outputs PWM(Pulse Width Modulation) wave form. Bias current shall be controlled using Q404.

Picture swaying occurs as the picture brightness varies. To correct this, control the high voltage regulation using Q401(1N7000), R433 and C411 That is, Q401 is a circuit for correcting Static Regulation and used to prevent the picture size changing as the picture brightness varies.

It detects the ABL voltage and inputs to Q401 Gate through R423 resistance. Then the ABL voltage change is sent to IC401(KA393) output and controls the DC of Q404(FQP630) Gate terminal, to keep the picture size from changing.

## ► E/W Circuit Constitution and Operation Principle.

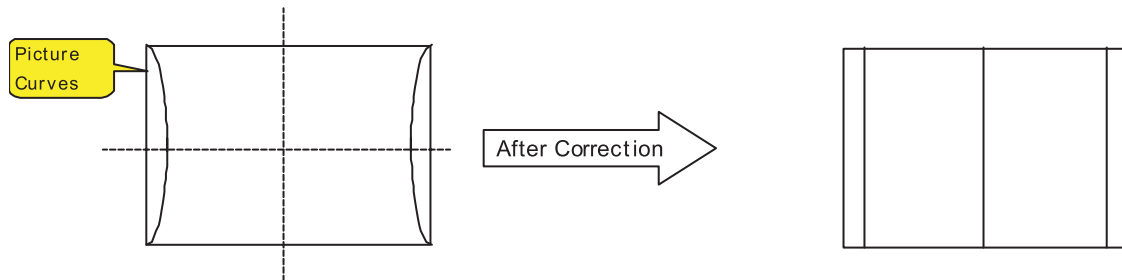
Also, E/W circuit functions as a compensatory circuit against the picture shaking by reversely compensating the picture swaying. This is possible by inputting ABL voltage to E/W using R433 as the picture brightness varies.

There are H,V, PIN-COMP as well in Factory data and these correct the high voltage regulation. If the H-COMP capacity value increases, correction vector increases too and this causes a strong picture swaying. On the other hand, if the H-COMP

capacity value decreases, correction vector decreases causing extensive picture size change. V-COMP, likewise, controls the vertical correction vector and operates in the same mechanism as H-COMP.

PIN-COMP is a function which corrects the movement of four corners of a picture. If the capacity value is excessive, a picture curves outwards when the picture is bright. COMP capacity value, therefore, should be varied +/- 1step from the factory-adjusted condition, since a gain widely varies dependant on the SET distribution.

► Before and After of E/W Circuit Correction



## 13-3 IC Line up

### ■ System Board

| Items                | Descriptions          | Remarks                            |
|----------------------|-----------------------|------------------------------------|
| Video Switch         | TEA6425, SGS-TOMSON   |                                    |
| 3D-COMB              | UPD64084, NEC         | 3 Dimension Y/C Separation LSI     |
| Analog Decoder       | VPC3230D, MICRONAS    |                                    |
| MPEG Decoder         | S5H2020X01, SAMSUNG   |                                    |
| CPU                  | S3C2800X, SAMSUNG     |                                    |
| MICOM                | SDA5525C, Micronas    | Micro Controller                   |
| DNle Lite            | SPD41, SAMSUNG        |                                    |
| Component Decoder    | MST9883A, MST         |                                    |
| HDMI Receiver        | SI9993, Silicon Image | Digital Reciver for HDMI with HDCP |
| Component Switch     | CXA2171Q, SONY        | Component S/W, H/V Sync S/W        |
| Tuner                | TDU2-004B, ALFS       |                                    |
| SOUND AMP            | TDA7297, SGS-TOMSON   |                                    |
| Deflection Processor | CX2165, SONY          |                                    |
| DRAM                 | K4S643232, SAMSUNG    |                                    |
| SDRAM                | K4S281632F, SAMSUNG   |                                    |
| FLRASH               | 28F640, IBM           |                                    |
| IC-LINE RANSCEIVER   | SP3232EC, Sipex       |                                    |
| EEPROM               | 24256                 |                                    |
| IC COMS LOGIC        | 74HC123, Philips      |                                    |
| Multi-Regulator      | SI-3006KWM            | 3.3V, 1.8V Multi Regulator         |
| Multi-Regulator      | SI-3003KWM            | 3.3V, 1.8V Multi Regulator         |
| Multi-Regulator      | SI-3002KWM            | 3.3V, 2.5V Multi Regulator         |
| Regulator            | GM66102 50G440, GAMMA | 5V Regulator                       |
| Regulator            | GM66102 25G338, GAMMA | 2.5V Regulator                     |
| Regulator            | 45AY                  | 1.2V Regulator                     |

Circuit Description

■ Power Board

| Items                 | Descriptions | Remarks |
|-----------------------|--------------|---------|
| BRIDGE DIODE          | GSIB660      |         |
| STAND-BY              | VIPer12A     |         |
| Diode                 | SLA1004L     |         |
| Trans Switching       | 53B135-DH    |         |
| Trans Switching-ST BY | EE2020       |         |
| STR                   | STR-X6759    |         |
| STR                   | STR-X6750    |         |

■ Deflection Board

| Items                | Descriptions   | Remarks |
|----------------------|----------------|---------|
| Module - RF Splitter | UMX-NT-017     |         |
| FET                  | FQP630         |         |
| EW Driver            | KA393          |         |
| Vertical DEF.        | LA7845         |         |
| Horizontal DEF.      | FJ6920, FMP3FU |         |
| Vertical Focus       | MC4558C        |         |
| H-Driver             | DDR1001A       |         |

■ CRT Board

| Items     | Descriptions | Remarks |
|-----------|--------------|---------|
| DRIVE IC  | TDA6111Q     |         |
| IC HYBRID | STK396-130   |         |
| AMP       | TDA2030      |         |

## 14. Reference Information

### 14-1 Other issues related to other products

#### ■ SD/HD broadcasts and the TV's display capability are related

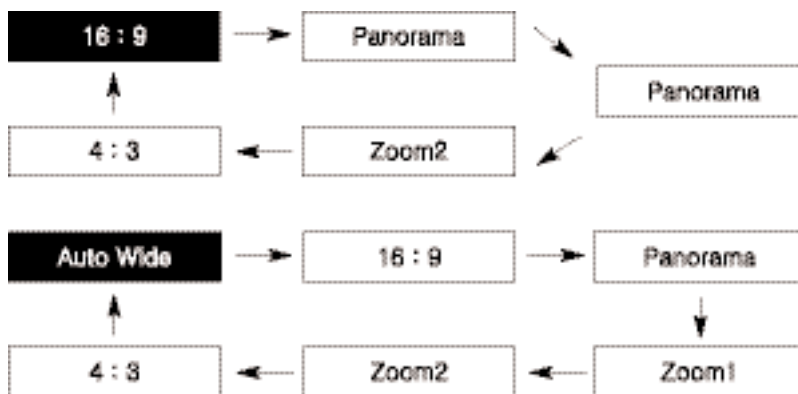
1. A digital broadcast should be transmitted in wide screen (an aspect ratio of 16:9) HD. If the broadcasting station converts a conventional program created in normal screen (aspect ratio of 4:3) into a digital signal and broadcasts the signal, the left and right of the picture will not be displayed.

This symptom also appears in other manufacturer's TV's. The three appliance companies are trying to resolve the problem through the Ministry of Information and Communication.

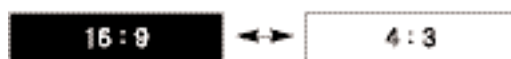
- \* When watching an SD (normal) broadcast through a Digital (Wide) TV (480P normal broadcast)
  - \* When watching an SD (normal) broadcast through a Digital Ready (Wide) TV (Using a set-top-box)
  - \* When watching an analog (normal) broadcast through a wide TV  
(When watching a broadcast after changing the aspect ratio of the TV from 16:9 (wide screen) to 4:3)
2. When watching a DVD title or video tape in wide screen (21:9) through a wide (16:9) TV, watching video from a computer or game console by selecting the aspect ratio to 4:3, or watching video from a DVD, VCR, computer or game console through a wide TV by selecting the aspect ratio to normal (4:3) or wide (21:9), the left and right, or top and bottom of the picture will not be displayed.

This symptom appears in other manufacturer's TV's. The three appliance companies are trying to resolve the problem through the Ministry of Information and Communication.

#### ■ Changing the Order of the Picture Size for 16:9 Display Devices



#### ■



#### ■ Restrictions

1. When you want to change the picture size in PIP 'ON', you must turn the PIP off before changing the size.  
However, you can change the main picture size even in PIP ON for products with no restrictions.
2. When the picture size is not Normal (4:3 for 4:3 display devices, 16:9 for 16:9 display devices) and you turn PIP on, the picture size is changed to Normal.  
However, you can turn PIP on without changing the picture size for products with no restrictions.
3. In the OSD notation for the picture size, 16:9 is represented as "Wide" instead of "16:9" for devices other than with 16:9 displays.  
Ex: For LCD 15:9 devices, "Wide" is displayed on the OSD instead of "16:9".
4. The picture size can be changed even in the blue screen.  
However, the picture size should be controlled by the product specifications if the change is impossible due to hardware restrictions.



## 14-2 Technical Terms

---

### Digital Broadcast

Digital Broadcast is a television broadcasting signal digitized and transmitted according to the United States' terrestrial digital broadcast standard, or ATSC.

### Mono

A type of audio interface that transmits audio signals through a single channel.

Through a mono interface, it is hard to experience stereophonic sound and sound is played only by one speaker.

### Reception Sensitivity Amplification

A signal amplification technique that amplifies weak broadcasting signals by applying satellite technology to provide a better visual quality even for users in regions where only weak broadcasting signals are available.

### Stereo

A type of audio interface that transmits audio signals through 2 channels.

Stereo transmits audio signals for the right and left channels so that you can experience stereophonic sound, and the sound is played with 2 speakers.

### Analog Broadcast

Analog Broadcast is a television broadcasting signal transmitted according to the NTSC standard.

### ANTENNA IN Port

A port to connect the TV aerial using a coaxial cable. It is generally used to watch public broadcast programs.

### English Caption

A function that shows English caption or text information included in the broadcasting signal or video tape. You can use this function to study English by watching AFKN or CC marked video tapes.

### Video/Audio Ports

You may experience poor visual and audio quality when watching a video tape on channel 3 or 4 through the antenna cable. You can experience better visual and audio quality connecting the TV and VCR through the Video/Audio ports. The video port is distinguished by the color yellow, and the audio ports are distinguished by the white (left) and red colors (right).

### External Input

External Input is connecting video devices such as a VCR, camcorder, DTV receiver, DVD, etc. as a video source.

### Satellite Broadcast

Satellite Broadcast transmits programs via satellite so that the broadcast is viable in all areas at a high visual and sound quality. It provides approximately 100 channels including public broadcast channels. To view satellite broadcast, you have to install an additional receiver.

### Wired Broadcast

Satellite Broadcast refers to movie, entertainment and educational programs transmitted by the broadcasting station in a hotel or school.

### Audio Multimix

Audio Multimix provides 2 languages for audio when broadcasting a foreign movie, drama, news, etc. You can select and listen to one of the supported languages or you can select and listen to both languages simultaneously.

### Component Port (Green, Blue, Red)

The Component Port separately transmits the luminance signal and provides the best quality of all video connection types.

### Cable Broadcast

Cable Broadcast transmits programs via cable instead of radio wave. To view a cable broadcast, you need to subscribe to your local cable broadcast service provider and install an additional receiver.

### Tuner

A device that enables selecting a specific frequency for a channel on a TV or radio.

### Anynet

Anynet is an AV network system that enables the easy-to-use AV interface for users by controlling connected AV devices through the Anynet menu when AV devices of Samsung Electronics are connected.

### DVD (Digital Versatile Disc)

DVD is a large capacity media that can save multimedia content such as video, game, audio applications, etc. using MPEG-2 video compression technology on a CD-sized disc.

### S-VIDEO IN Port

This is called super video. S-Video is a type of video signal which has the video luminance and color signals separated in order to provide a better visual quality.

### VHF/UHF

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



# COLOR TELEVISION RECEIVER

Chassis : S62A(P)\_OZ  
Model : WS32Z30HEAXBWT  
WS32Z30HEAXSAP

# ***SERVICE*** Manual

## COLOR TELEVISION RECEIVER



WS-32Z30HE

## FEATURES

- Slimfit (Low Depth) CRT
- DNle Lite Adopted
- 480P/576P/1080i
- Full 100Hz



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Printed in Korea  
**AA82-02486A**

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**SAMSUNG**

# ЦВЕТНОЙ ТЕЛЕВИЗОР

WS32Z30

## Руководство пользователя

Перед началом эксплуатации устройства внимательно прочитайте настоящее руководство и сохраните его для будущего использования.

**ЭКРАННЫЕ МЕНЮ**  
**ИЗОБРАЖЕНИЕ В ИЗОБРАЖЕНИИ**  
(не во всех моделях)  
**ТЕЛТЕКСТ**

**VIRTUAL**  
  
**DOLBY**  
**SURROUND**

Зарегистрируйтесь в клубе Samsung на сайте [www.samsung.com/global/register](http://www.samsung.com/global/register)



## Правила техники безопасности

- ◆ Не подвергайте телевизор воздействию высокой температуры или влажности.
- ◆ Не подвергайте телевизор воздействию прямого солнечного света и других источников тепла.
- ◆ Не допускайте попадания жидкости на корпус телевизора.
- ◆ Не допускайте попадания в корпус телевизора посторонних предметов и не ставьте на него сосуды, содержащие жидкость.
- ◆ Во время грозы отсоединяйте шнур питания телевизора от сетевой розетки и антенный шнур - от антенного входа.
- ◆ Не наступайте на шнур питания и не допускайте его перекручивания.
- ◆ В случае подключения к сетевым розеткам чрезмерной нагрузки существует вероятность возникновения пожара и поражения электрическим током.
- ◆ Для очистки телевизора используйте мягкую и сухую ткань (не используйте летучие вещества).
- ◆ Если телевизор поврежден, не пытайтесь отремонтировать его самостоятельно.
- ◆ Обратитесь к квалифицированным специалистам.
- ◆ Если пульт дистанционного управления (ДУ) не используется в течение длительного времени, извлеките батареи питания пульта ДУ и поместите их в прохладное и сухое место.
- ◆ Не допускайте падения пульта ДУ.

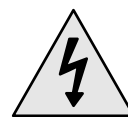
Это устройство не предназначено для использования в производственной среде.

## Внимание

|  |   |   |
|--|---|---|
|   | <b>ВНИМАНИЕ!</b><br>ВЫСОКОЕ НАПРЯЖЕНИЕ,<br>НЕ ОТКРЫВАТЬ |  |
| <b>ВНИМАНИЕ:</b> во избежание поражения электрическим током не открывайте заднюю крышку устройства. Внутри корпуса отсутствуют компоненты, подлежащие обслуживанию пользователем. Обслуживание должно выполняться только квалифицированными специалистами. |   |   |

**ПРЕДУПРЕЖДЕНИЕ:** чтобы предотвратить повреждения, которые могут привести к возгоранию или поражению электрическим током, не допускайте попадания этого устройства под дождь или в условия повышенной влажности.

Изображение молнии в треугольнике является предупреждающим знаком, который указывает на наличие внутри корпуса компонентов, находящихся под высоким напряжением.



Восклицательным знаком в треугольнике помечена важная информация, относящаяся к данному изделию.



Напряжение питания указано на задней панели телевизора, частота сети 50 или 60 Гц.

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**Символы**



Нажать



Важная информация



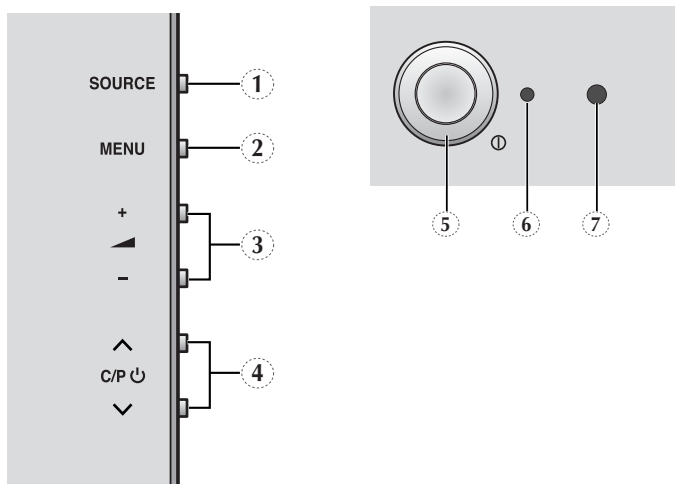
Примечание

## Вид телевизора (в зависимости от модели)

- В зависимости от модели вашего телевизора, его фактическая конфигурация может быть другой.

### Панель управления

#### *Передняя панель телевизора*



- |                            |                                     |
|----------------------------|-------------------------------------|
| 1) Разъем для карты памяти | 5) Включение/ выключение питания    |
| 2) Вызов меню              | 6) Индикатор ожидания               |
| 3) Регулировка громкости   | 7) Датчик дистанционного управления |
| 4) Переключение каналов    |                                     |

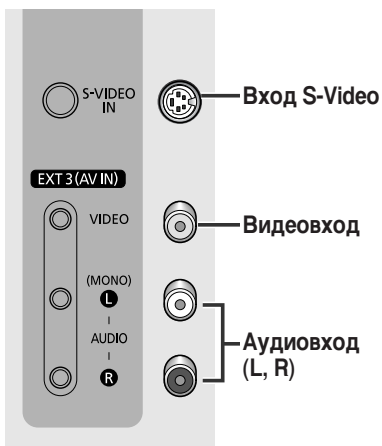
- 
- ◆ В некоторых моделях кнопки  $\nabla$  C/P.  $\text{⏻}$   $\wedge$  могут использоваться для включения телевизора, когда он находится в режиме ожидания.
  - ◆ Кнопки  $\blacktriangleleft$  + и  $\nabla$  C/P.  $\text{⏻}$   $\wedge$  имеют ту же функцию, что и кнопки  $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangleleft$ / $\blacktriangleright$  на пульте ДУ.
  - ◆ Если пульт управления вышел из строя или был утерян, можно использовать элементы управления на панели телевизора.
- При выключении телевизора кнопкой **POWER** на передней панели телевизора его нельзя включить при помощи кнопки **POWER** на пульте ДУ.  
(Дополнительную информацию см. на стр. 10.)

## Вид телевизора (в зависимости от модели) (продолжение)

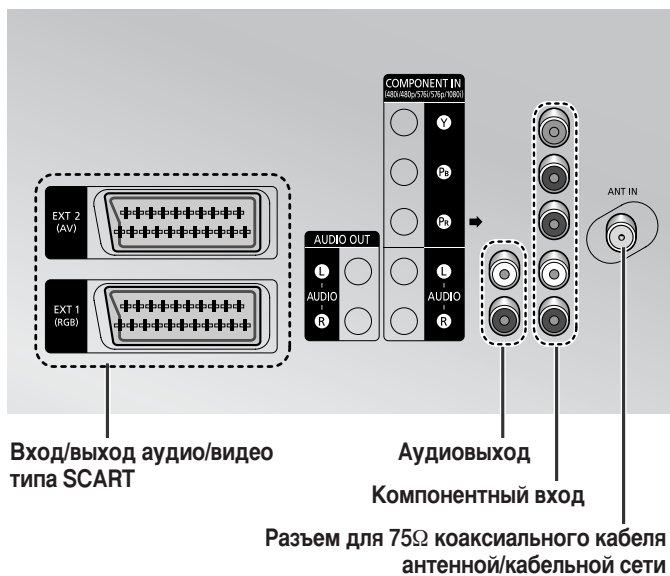
- Пожалуйста, соблюдайте соответствие маркированных цветом входных клемм и разъемов кабеля

### Соединительная панель

#### Боковая панель телевизора

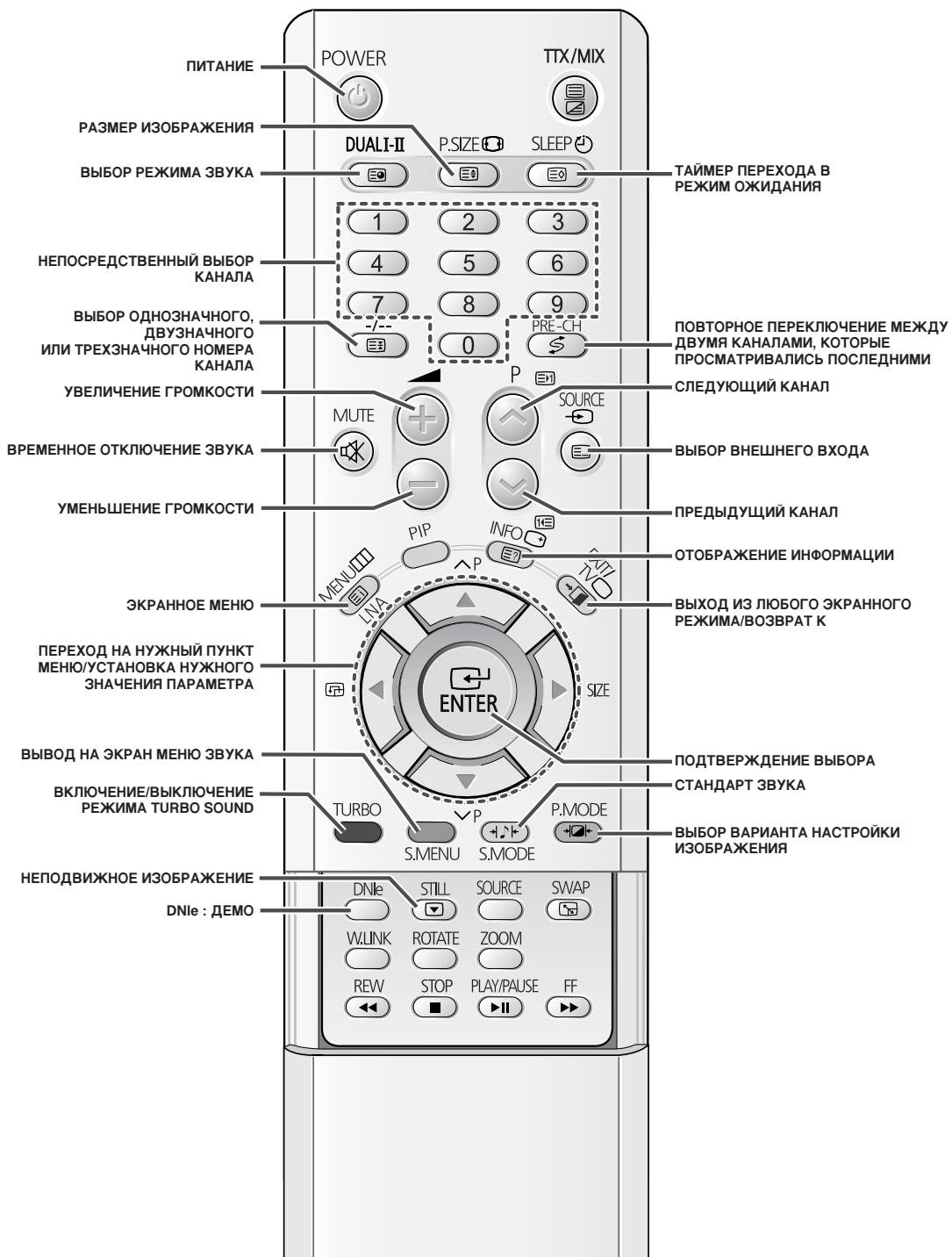


#### Задняя панель телевизора



- Доступные форматы входов компонентной: 480i, 480p, 576i, 576p, 1080i - 50 Гц.

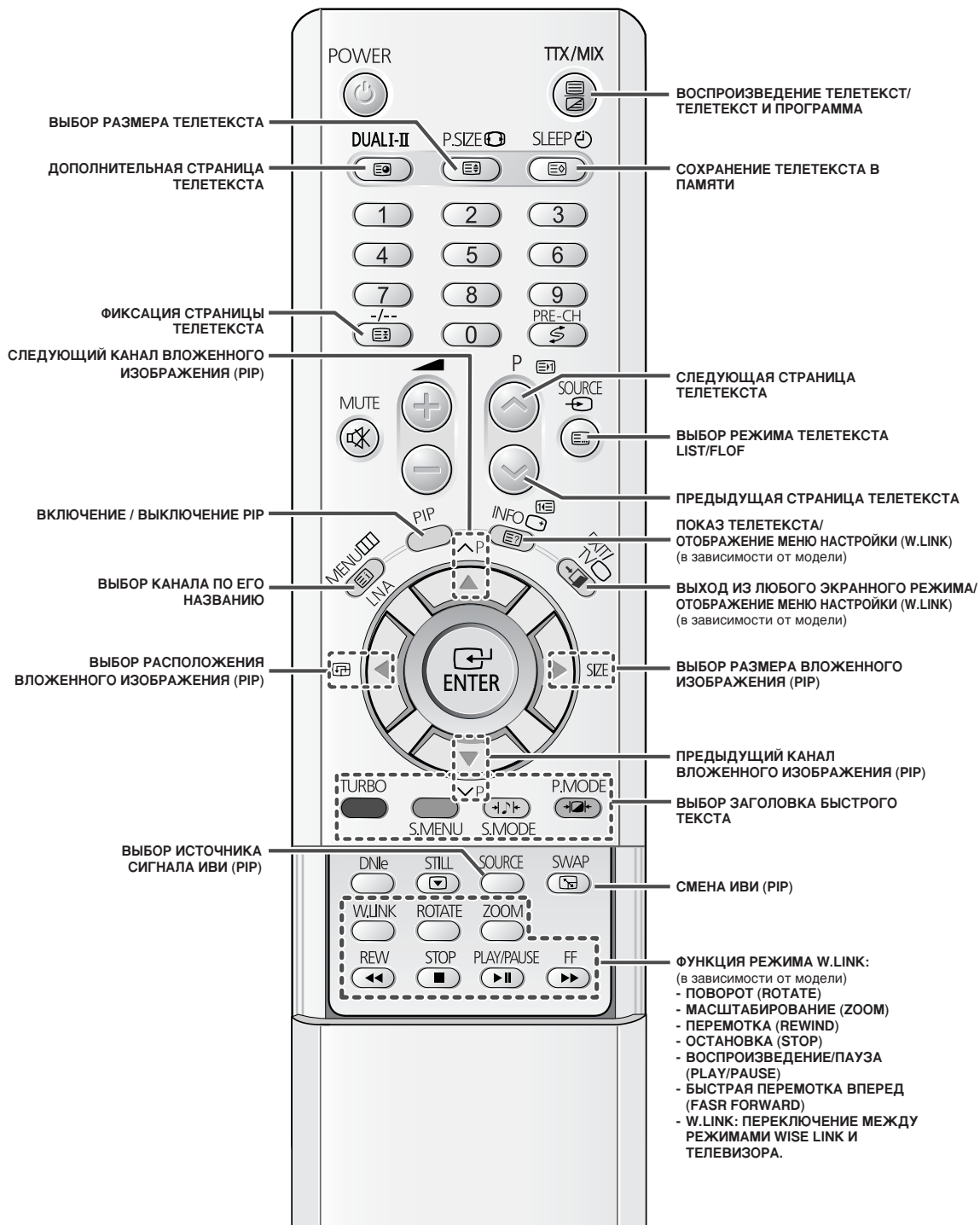
# Инфракрасный пульт ДУ (в зависимости от модели)



➤ На качество работы пульта дистанционного управления может повлиять яркий свет.



# Инфракрасный пульт ДУ (в зависимости от модели) (продолжение)

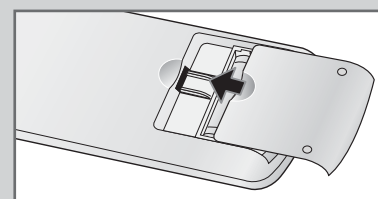
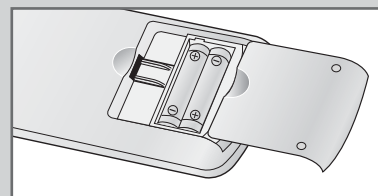
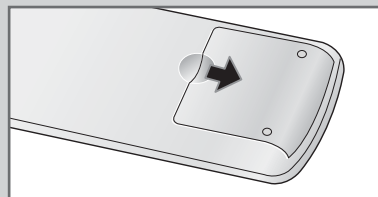


## Установка батарей в пульт ДУ

Необходимо вставить или заменить батареи пульта ДУ в следующих случаях:

- ◆ При покупке телевизора
- ◆ Если пульт ДУ не работает надлежащим образом

- 1 Снимите крышку, которая находится на задней панели пульта ДУ, нажав на нее в месте, обозначенном соответствующим символом (⇩), и передвинув ее в указанном направлении.
- 2 Вставьте две батареи R03, UM4, "AAA" 1.5V (или аналогичные) с учетом полярности:
  - ◆ Полюс "-" батареи соответствует контакту "-" пульта ДУ
  - ◆ Полюс "+" батареи соответствует контакту "+" пульта ДУ
- 3 Установите крышку на место, вставив ее в соответствующие пазы в корпусе пульта ДУ и вдвинув до упора.

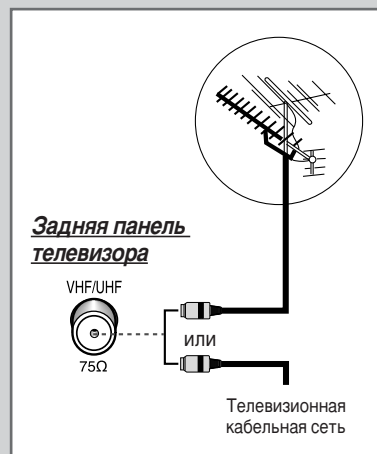


## Подсоединение к антенной или кабельной телевизионной сети

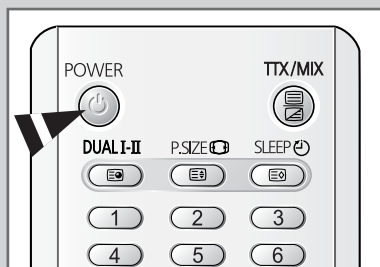
Для просмотра телевизионных каналов необходимо, чтобы сигнал поступал по одному из следующих источников:

- ◆ Внешняя антенна
- ◆ Телевизионная кабельная сеть
- ◆ Спутниковая сеть

- 1 В первых трех случаях подсоедините входной кабель антенны или сети к разъему для 75Ω коаксиального кабеля на задней панели телевизора.
- 2 В случае, если используется комнатная антенна, при настройке телевизора ее нужно будет включить, чтобы получить четкое изображение без помех. Дополнительную информацию можно найти в разделах:
  - ◆ "Автоматическая настройка каналов" на стр. 14.
  - ◆ "Настройка каналов вручную" на стр. 16.



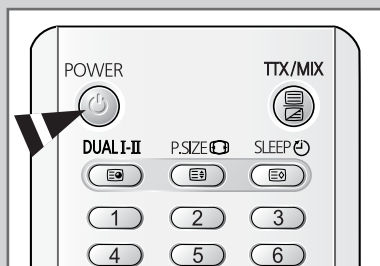
## Включение и выключение питания телевизора



*Шнур питания подсоединен к соответствующему гнезду на задней панели телевизора.*

- 1 Вставьте шнур питания в соответствующую розетку.
  - Это устройство предназначено для работы при напряжении электропитания 220 В, которое является стандартным в России. Кроме того, изделие функционирует нормально при изменении напряжения до 300 В, вызванном внешними причинами.
- 2 На передней панели телевизора нажмите кнопку “Ⓜ” (Включить/выключить).  
Результат: На передней панели телевизора загорится индикатор режима ожидания.
- 3 Включите телевизор нажатием кнопки **POWER** (Ⓜ) на пульте дистанционного управления.  
Результат: Программа, которая просматривалась в прошлый раз последней, будет выбрана автоматически.
  - Если на данный момент сохраненных каналов еще нет, то на экране не появится четкое изображение. Обратитесь к разделам “Автоматическая настройка каналов” на стр. 14 или “Настройка каналов вручную” на стр. 16.
- 4 Чтобы выключить питание телевизора, нажмите кнопку “Ⓜ” (Включить/выключить) еще раз.

## Установка телевизора в режим ожидания



*Телевизор можно установить в режим ожидания, чтобы уменьшить:*

- ◆ Потребление электроэнергии
- ◆ Износ электронно-лучевой трубки

*Режим ожидания может быть полезен, если необходимо временно прервать просмотр (например, на время обеда).*

- 1 Нажмите кнопку **POWER** (Ⓜ) на пульте ДУ.  
Результат: Экран отключится, а на передней панели телевизора красным светом загорится индикатор режима ожидания.
- 2 Чтобы снова включить телевизор, нажмите кнопку **POWER** (Ⓜ) еще раз.
  - Включить телевизор можно также нажатием кнопок **TV** (□), **P** (Ⓜ) или (Ⓜ) или одной из цифровых кнопок.

- 👉 Не оставляйте свой телевизор в режиме ожидания надолго (например, когда вы уезжаете в отпуск). Выключите телевизор, нажав на его передней панели кнопку “Ⓜ” (Включить/выключить). Для большей безопасности отключите телевизор от розетки питания и антенны.

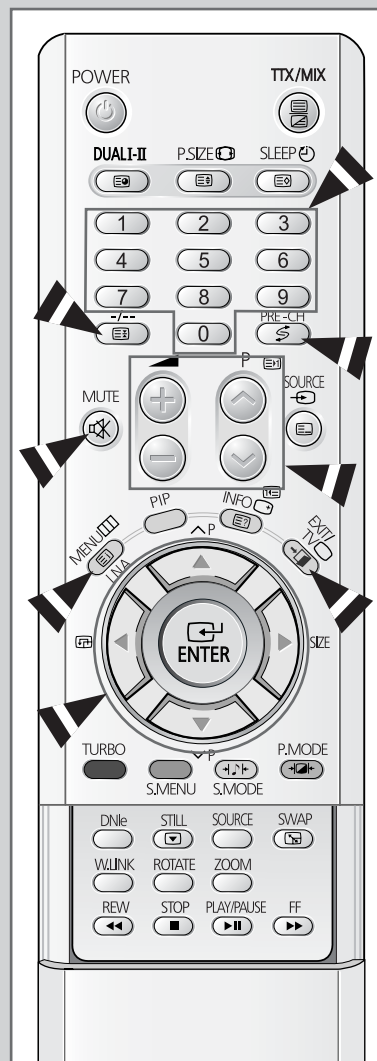
# Ознакомление с пультом дистанционного управления

Пульт дистанционного управления используется для:

- ◆ Выбора каналов и настройки громкости
- ◆ Вызов системы экранных меню

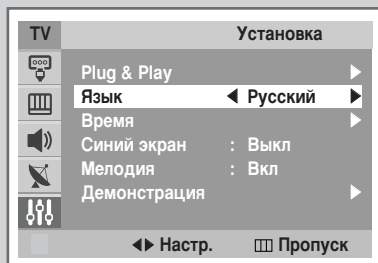
В приведенной ниже таблице указаны наиболее часто используемые кнопки и их функции.

| Кнопка   | Функция при просмотре  | Функция при работе с меню   |
|--|--|---|
|                   | Используется для выбора следующего сохраненного канала.  | —   |
|                   | Используется для выбора предыдущего сохраненного канала.   | —   |
|                    | Используются для выбора соответствующих каналов.   | —   |
|                   | Используется для выбора каналов с номерами, начиная от десяти. Нажмите эту кнопку, после чего отобразится символ “-” или “--”. Введите однозначный или двузначный номер канала.  | —   |
| <b>PRE-CH</b>  | Нажмите кнопку <b>PRE-CH</b> . Телевизор переключится на канал, который просматривался последним.<br>Для быстрого переключения между двумя каналами, которые находятся не рядом, настройтесь на один канал, а затем выберите другой канал с помощью цифровой кнопки. Затем для быстрого переключения между ними используйте кнопку <b>PRE-CH</b> . | —   |
|                 | Используется для увеличения громкости звука.   | —   |
|                 | Используется для уменьшения громкости звука.   | —   |
| <b>MUTE</b><br> | Используется для временного выключения звука.<br>➤ Чтобы снова включить звук, нажмите эту кнопку еще раз или нажмите одну из кнопок:  или  .                                 | —   |
| <b>MENU</b><br> | Используется для вызова системы экранных меню.   | Используется для возвращения в предыдущее меню или обычный режим просмотра.   |
|                  | —  | Используется для: <ul style="list-style-type: none"> <li>◆ Отображения подменю, содержащих дополнительные пункты для текущего пункта меню.</li> <li>◆ Увеличения/уменьшения значения параметра, выбранного в меню.</li> </ul> |
|                 | —  | Используется для подтверждения выбора.  |
| <b>EXIT</b><br> | —  | Используется для выхода из системы экранных меню и возвращения в обычный режим просмотра.   |
| <b>TV</b><br>   | Используется для включения телевизора, когда он находится в режиме ожидания.   | Используется для выхода из системы экранных меню и возвращения в режим нормального просмотра.   |



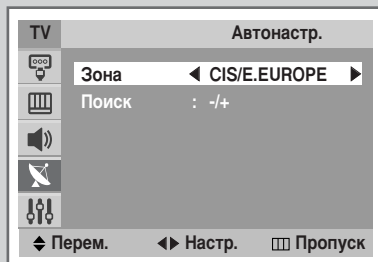
# Функция Plug & Play

## Plug & Play

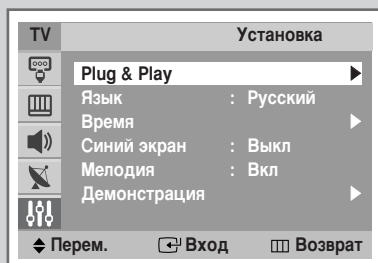


## Проверьте антенный вход

◀ Перем.    Пропуск



## Приятного просмотра



*При первом включении телевизора, автоматически, одна за другой, будут выведены три основные настройки для пользователя: установка языка, канала и текущего времени.*

- 1 Если телевизор находится в режиме ожидания, нажмите кнопку **POWER** (⏻) на пульте ДУ.

Результат: На экране отобразится сообщение **Plug & Play**. Это сообщение помигает некоторое время, а затем автоматически отобразится меню **Язык**.

- 2 Нажимая клавишу ◀ или ▶, выберите необходимый язык. Чтобы ввести этот язык, нажмите кнопку **MENU** (□□□).

Результат: Отобразится сообщение **Проверьте антенный вход**.

➤ Если Язык в меню **Язык** не выбран, это меню исчезнет примерно через 30 секунд.

- 3 Убедитесь, что антенна подсоединена к телевизору. Нажмите кнопку ◀ или ▶.

Результат: Отобразится меню **Автонастр.** с выбранным пунктом **Зона**.

- 4 Нажимая кнопку ◀ или ▶, выберите свою зону. Чтобы произвести поиск каналов, нажимая кнопку ▲ или ▼ выберите **Поиск**, а затем нажмите кнопку ◀ или ▶. Чтобы остановить поиск, нажмите кнопку **MENU**(□□□).

Результат: Отобразится меню **Время** с выбранным пунктом **Часы**.

➤ "Автоматическая настройка каналов" на стр. 14.

- 5 Нажмите кнопку ◀ или ▶, чтобы изменить час или минуту. Нажимая кнопку ▲ или ▼, установите час или минуту.

➤ Обратитесь к разделу "Установка и отображение текущего времени" на стр. 31.

- 6 После выполнения этой операции нажмите кнопку **MENU**(□□□).

Результат: Отобразится сообщение **Приятного просмотра**, а затем настроенный канал будет активизирован.

- 7 Если вы хотите сбросить настройки этой функции:

- 1 Нажмите кнопку **MENU**(□□□).

- 2 Чтобы выбрать пункт **Установка**, нажмите кнопку ▲ или ▼, а затем нажмите кнопку **ENTER** (↵).

Результат: Будет выбран пункт **Plug & Play**.

- 3 Нажмите кнопку **ENTER** (↵) еще раз.

Результат: **Установка** запустится, отобразив на экране сообщение **Plug & Play**.

➤ Если потребуется прервать Plug & Play, нажмите на пульте ДУ кнопку **EXIT** (-1).

## Просмотр демонстрации

Чтобы поближе познакомиться с различными меню телевизора, можно просмотреть встроенную демонстрацию.

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Установка**, нажмите кнопку ▲ или ▼.

Результат: Отобразятся варианты, доступные в группе **Установка**.

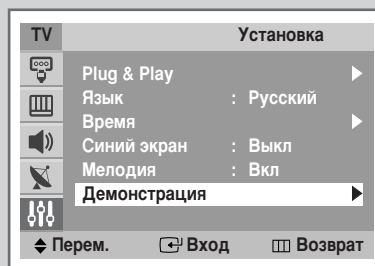
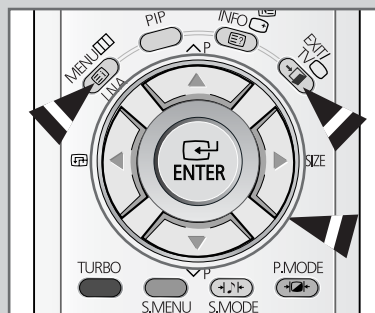
- 3 Нажмите кнопку **ENTER** (↵).

- 4 Чтобы выбрать пункт **Демонстрация**, нажмите кнопку ▲ или ▼.

- 5 Нажмите кнопку **ENTER** (↵).

Результат: Все пункты меню будут показаны по очереди.

- Если потребуется прервать демонстрацию, нажмите на пульте ДУ кнопку **EXIT** (-□).



## Выбор языка

Когда вы в первый раз включаете телевизор, необходимо выбрать язык, который будет использоваться при отображении названий меню, пунктов меню и другой информации.

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

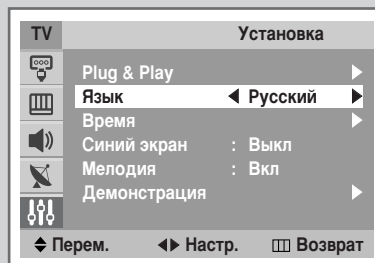
- 2 Чтобы выбрать пункт **Установка**, нажмите кнопку ▲ или ▼.

Результат: Отобразятся варианты, доступные в группе **Установка**.

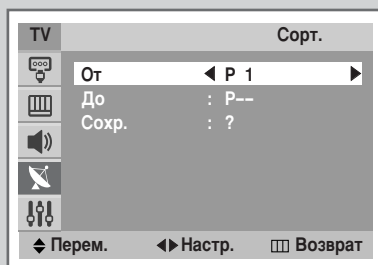
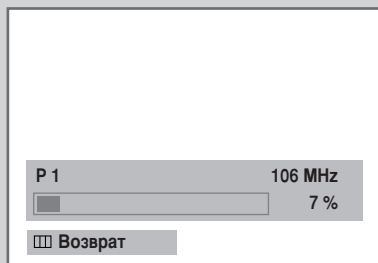
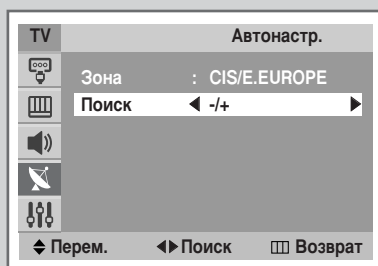
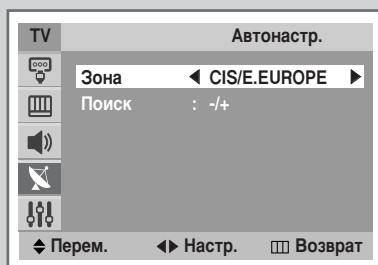
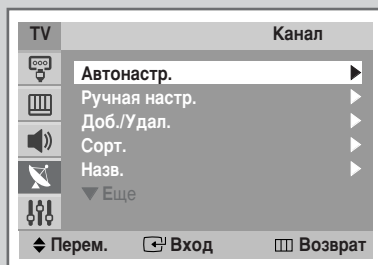
- 3 Нажмите кнопку **ENTER** (↵).

- 4 Чтобы выбрать пункт **Язык**, нажмите кнопку ▲ или ▼.

- 5 Выберите необходимый язык, нажимая кнопку ◀ или ▶.



## Автоматическая настройка каналов



*Можно произвести сканирование доступных частотных диапазонов (диапазоны частот зависят от страны, в которой вы находитесь). Автоматически распределенные номера программ могут не отвечать фактическим или желаемым номерам программ. Тем не менее, можно отсортировать номера вручную и удалить нежелательные каналы.*

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Канал**, нажмите кнопку **▲** или **▼**.

Результат: Отобразятся пункты меню, доступные в группе **Канал**.

- 3 Нажмите кнопку **ENTER** (↵).

Результат: Будет выбран пункт **Автонастр.**

- 4 Нажмите кнопку **ENTER** (↵) еще раз.

Результат: Отобразятся пункты меню **Автонастр.** с выбранным пунктом **Зона**.

- 5 Нажимая кнопку **◀** или **▶**, выберите свою зону.

Зоны отображаются в следующем порядке:  
**ASIA/W.EUROPE - CIS/E.EUROPE - CHINA - HONG KONG/UK - AUSTRALIA - NZL/INDONESIA - SOUTH AFRICA - AMERICA**

- 6 Чтобы выбрать пункт **Поиск**, нажмите кнопку **▲** или **▼**.

- 7 Чтобы начать поиск, нажмите кнопку **◀** или **▶**.

Результат: На экран будет выведена горизонтальная полоса, и настройка каналов будет производиться в том же порядке, в котором они находятся на диапазоне частот. Поиск завершится автоматически.

- Чтобы прекратить поиск до его завершения, нажмите кнопку **MENU** (□□□).

- 8 После завершения поиска и сортировки отобразится меню **Сорт.**

- ◆ Чтобы отсортировать настроенные каналы в необходимом порядке, перейдите к пункту 6 последовательности действий "Сортировка настроенных каналов" на странице 15.
- ◆ Чтобы завершить выполнение функции настройки каналов, не осуществляя сортировку каналов, нажимайте кнопку **MENU** (□□□) до тех пор, пока меню не исчезнет.

- 9 После завершения сортировки каналов можно:

- ◆ отсортировать их в желаемом порядке (см. страницу 15);
- ◆ удалить канал (см. страницу 18);
- ◆ назначить названия настроенным каналам (см. страницу 19);
- ◆ при необходимости произвести точную подстройку приема (см. страницу 20);
- ◆ включить функцию цифрового подавления шума (см. страницу 24).



## Сортировка настроенных каналов

*Эта функция позволяет изменять номера программ настроенных каналов. Необходимость в использовании этой функции может возникнуть после применения автоматической настройки каналов. Ненужные каналы можно будет удалить.*

- 1 Нажмите кнопку **MENU**()

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Канал**, нажмите кнопку **▲** или **▼**.

Результат: Отобразятся пункты меню, доступные в группе **Канал**.

- 3 Нажмите кнопку **ENTER** ()

- 4 Чтобы выбрать пункт **Сорт.**, нажмите кнопку **▲** или **▼**.

- 5 Нажмите кнопку **ENTER** ()

Результат: Отобразятся пункты меню **Сорт.** с выбранным пунктом **От**.

- 6 Выберите номер канала, который необходимо изменить, нажимая кнопку **◀** или **▶**.

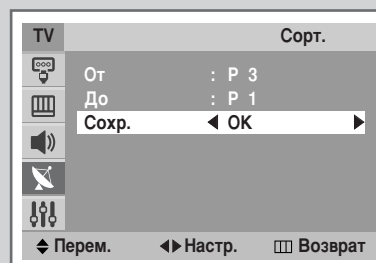
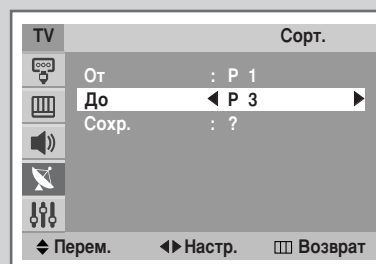
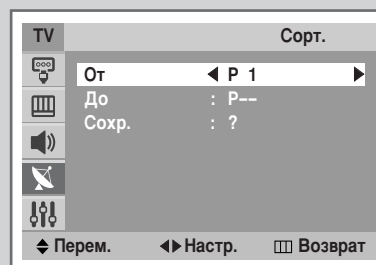
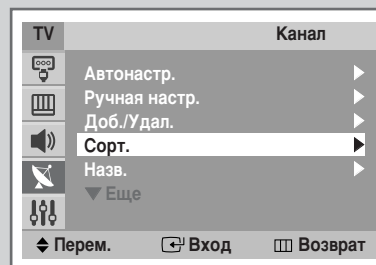
- 7 Чтобы выбрать пункт **До**, нажмите кнопку **▲** или **▼**.  
Нажимая кнопку **◀** или **▶**, выберите номер нового канала, на который требуется переместить программу.

➤ Номер канала можно также выбрать непосредственно, нажав кнопку с цифрой (0~9).

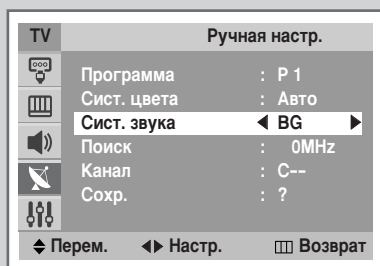
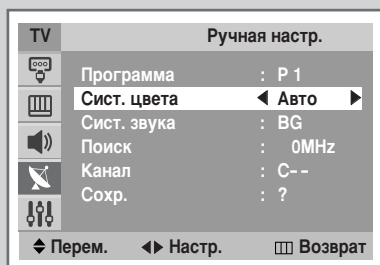
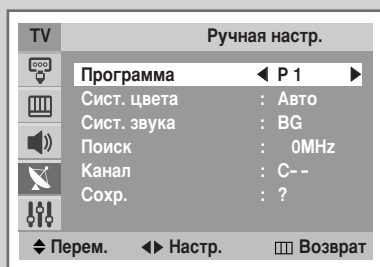
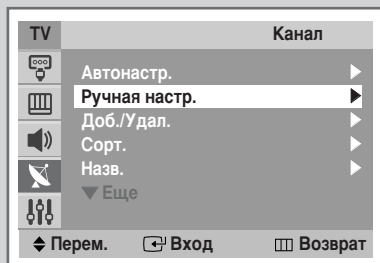
- 8 Чтобы выбрать пункт **Сохранить**, нажмите кнопку **▲** или **▼**.  
Нажимая кнопку **◀** или **▶**, выберите **ОК**, чтобы подтвердить перемену мест программ.

Результат: Выбранный канал обменяется номерами с одним из ранее настроенных каналов.

- 9 Для всех каналов, чтобы переместить необходимые номера каналов, повторяйте пункты от 6 до 8, нажимая кнопку **▲** или **▼** и выбирая пункт **От**.



# Настройка каналов вручную



*Можно настраивать до 100 телевизионных каналов, включая передающиеся по кабельным сетям.*

*При настройке каналов вручную можно выбирать:*

- ◆ *Сохранять или нет все найденные каналы*
- ◆ *Номер программы для каждого настроенного канала, которому вы хотите дать название*

1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

2 Чтобы выбрать пункт **Канал**, нажмите кнопку ▲ или ▼.

Результат: Отобразятся пункты меню, доступные в группе **Канал**.

3 Нажмите кнопку **ENTER** (↵).

4 Чтобы выбрать пункт **Ручная настр.**, нажмите кнопку ▲ или ▼.

5 Нажмите кнопку **ENTER** (↵).

Результат: Отобразятся пункты меню **Ручная настр.** с выбранным пунктом **Программа**.

6 Чтобы назначить каналу номер программы, нажмите кнопку ◀ или ▶.

7 Чтобы выбрать пункт **Сист. цвета**, нажмите кнопку ▲ или ▼. Нажимая кнопку ◀ или ▶, выберите необходимый стандарт телевидения.

Результат: Стандарты системы цвета отображаются в следующем порядке:

**Авто – PAL – SECAM – NT4.43 – NT3.58**

8 Чтобы выбрать пункт **Сист. звука**, нажмите кнопку ▲ или ▼. Нажимая кнопку ◀ или ▶, выберите необходимый стандарт звука.

Результат: Стандарты системы звука отображаются в следующем порядке:

**BG – DK – I – M**

## Настройка каналов вручную (продолжение)

9 Если вам известен номер канала, который необходимо настроить, следуйте указаниям, приведенным в нижеследующих пунктах.

- ◆ Чтобы выбрать пункт **Канал**, нажмите кнопку **▲** или **▼**.
- ◆ Нажмите кнопку **▶**.
- ◆ Нажмите кнопку **▲** или **▼**, чтобы выбрать **C** (Канал с антенны) или **S** (Кабельный канал).
- ◆ Нажмите кнопку **▶**.
- ◆ Чтобы выбрать необходимый номер, нажмите кнопку **▲** или **▼**.
  - Номер канала можно также выбрать непосредственно, нажав кнопку с цифрой (0~9).
  - Если звук отсутствует или раздается измененный звук, выберите систему звука еще раз.

10 Если вы не знаете номеров каналов, то при помощи кнопок **▲** или **▼** выберите **Поиск**. Чтобы начать поиск, нажмите кнопку **◀** или **▶**.

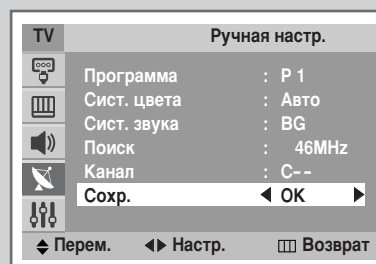
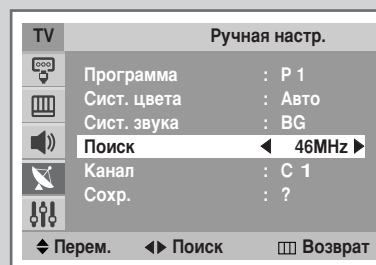
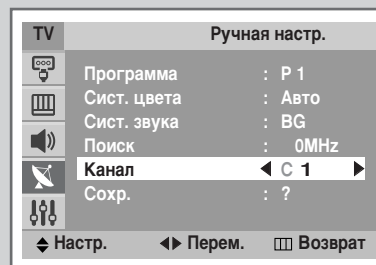
Результат: Тюнер будет производить сканирование диапазона частот, пока первый канал или выбранный вами канал не отобразится на экране.

11 Чтобы сохранить канал и назначенный номер программы, при помощи кнопок **▲** или **▼** выберите **Сохранить**. Чтобы выбрать **ОК**, нажмите кнопку **◀** или **▶**.

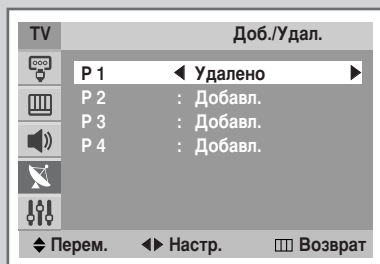
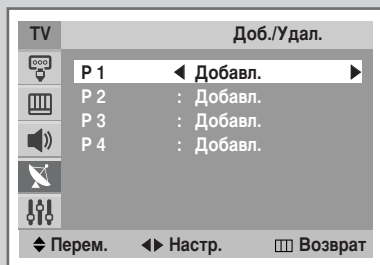
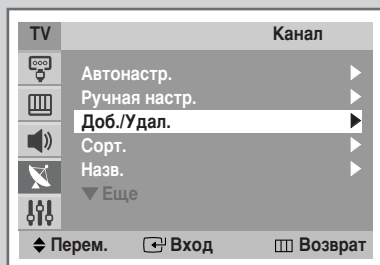
12 Повторяйте пункты с 9 до 11, чтобы сохранить все каналы.

### Режим каналов

- ◆ **P** (Режим программы): При выполнении настройки станции телевидения вашей зоны распределяются по позициям с номерами от P00 до максимального значения P99. В этом режиме можно выбрать канал, если ввести номер позиции.
- ◆ **C** (Режим реальных каналов): В этом режиме можно выбрать канал, если ввести номер, назначенный станции телевидения.
- ◆ **S** (Режим кабельных каналов): В этом режиме можно выбрать канал, если ввести номер, назначенный кабельному каналу.



## Пропуск ненужных каналов



*Из списка настроенных каналов можно пропустить ненужные каналы. При просмотре настроенных каналов пропущенные каналы не отображаются.*

*Все остальные каналы, которые не были обозначены как пропущенные, будут отображаться при просмотре.*

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Канал**, нажмите кнопку **▲** или **▼**.

Результат: Отобразятся пункты меню, доступные в группе **Канал**.

- 3 Нажмите кнопку **ENTER** (↵).

- 4 Чтобы выбрать пункт **Доб./Удал.**, нажмите кнопку **▲** или **▼**.

- 5 Нажмите кнопку **ENTER** (↵).

Результат: Отобразятся настроенные каналы.

- 6 При помощи кнопок **▲** или **▼** выберите канал, который необходимо добавить или стереть. Если необходимо, выберите пункты **Добавл.** или **Удалено** при помощи кнопки **◀** или **▶**.

- 7 Повторяйте пункт **6** для всех каналов, которые необходимо добавить или стереть.

## Задание названий каналов

Названия каналов будут заданы автоматически, если вместе с сигналом телевидения передается информация о канале. Эти названия можно изменить по собственному желанию.

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Канал**, нажмите кнопку **▲** или **▼**.

Результат: Отобразятся пункты меню, доступные в группе **Канал**.

- 3 Нажмите кнопку **ENTER** (↵).

- 4 Чтобы выбрать пункт **Назв.**, нажмите кнопку **▲** или **▼**.

- 5 Нажмите кнопку **ENTER** (↵).

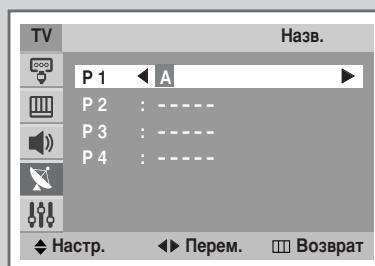
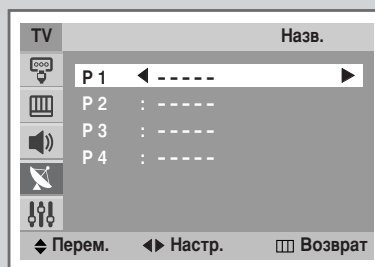
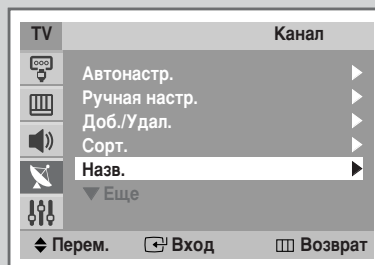
Результат: Отобразятся текущие каналы:

- 6 Если это необходимо, выберите при помощи кнопок **▲** или **▼** канал для нового названия.

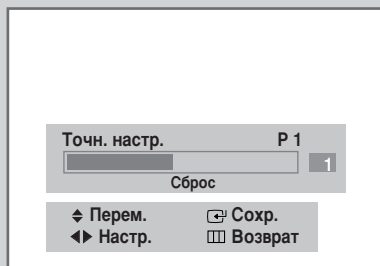
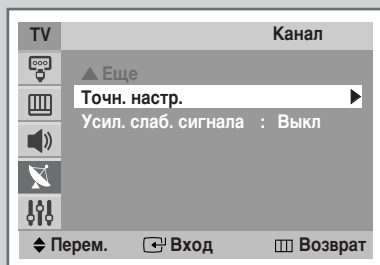
- 7 Нажмите кнопку **◀** или **▶**.

- 8 Нажмите кнопку **▲** или **▼**, чтобы выбрать букву (A~Z), цифру (0~9) или символ (–, пробел). При помощи кнопок **◀** или **▶** можно переместиться к предыдущей или следующей букве.

- 9 Повторяйте пункты с **6** до **8**, чтобы задать названия для всех каналов.



## Точная подстройка приема канала



*Если принимается четкий сигнал без помех, то производить точную подстройку приема нет необходимости, так как это было осуществлено автоматически во время выполнения поиска и настройки. Если сигнал слабый или искаженный, то может понадобиться произвести точную подстройку приема канала вручную.*

- 1 Нажмите кнопку **MENU** (□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Канал**, нажмите кнопку ▲ или ▼.

Результат: Отобразятся пункты меню, доступные в группе **Канал**.

- 3 Нажмите кнопку **ENTER** (↵).

- 4 Чтобы выбрать пункт **Точн. настр.**, нажмите кнопку ▲ или ▼.

- 5 Нажмите кнопку **ENTER** (↵).

- 6 Чтобы добиться четкого изображения без помехи и хорошего качества звука, нажимайте кнопку ◀ или ▶.

Результат: Отобразится горизонтальная полоса. При помощи кнопок ◀ или ▶ можно перемещать курсор горизонтальной полосы влево и вправо.

- 7 Для сохранения точной настройки в памяти телевизора нажмите кнопку **ENTER** (↵).

Результат: Индикатор канала загорается красным цветом.

- 8 Чтобы стереть подстроенные изображение или звук, выберите пункт **Сброс** при помощи кнопок ▲ или ▼, Нажмите кнопку **ENTER** (↵).

Результат: Индикатор канала загорается обычным цветом.

## Использование функции малошумящего усилителя (в зависимости от модели)

*Данная функция очень полезна в тех случаях, когда телевизор принимает слабый сигнал. УСС усиливает телевизионный сигнал в области неуверенного приема без усиления уровня шума.*

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Канал**, нажмите кнопку **▲** или **▼**.

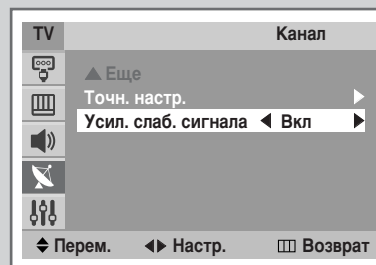
Результат: Отобразятся пункты меню, доступные в группе **Канал**.

- 3 Нажмите кнопку **ENTER** (↵).

- 4 Нажмите кнопку **▲** или **▼**, чтобы выбрать **Усил. слаб. сигнала**.

- 5 Чтобы включить эту функцию, выберите **Вкл**, нажав кнопку **◀** или **▶**.

➤ При установке для параметра LNA значения **Вкл** качество изображения может ухудшиться из-за состояния сигнала текущего канала. Поэтому значение параметра LNA необходимо устанавливать исходя из качества отображаемого в данный момент изображения.



## Изменение стандарта изображения

*Можно выбрать тип изображения на свой вкус.*

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Изображение**, нажмите кнопку **▲** или **▼**.

Результат: Отобразятся пункты меню, доступные в группе **Изображение**.

- 3 Нажмите кнопку **ENTER** (↵).

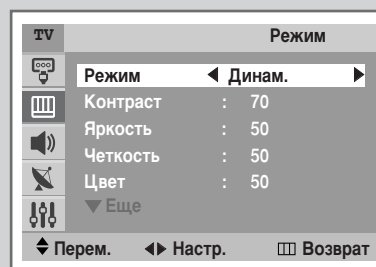
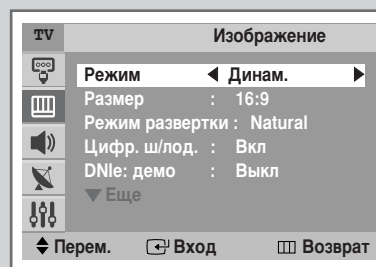
Результат: Будет выбран пункт **Режим**.

- 4 Выберите необходимый режим изображения, повторно нажимая кнопку **◀** или **▶**.

Результат: Доступны следующие режимы изображения:

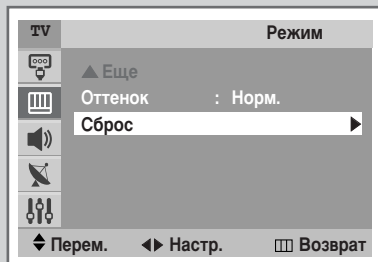
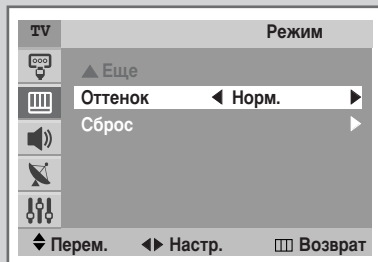
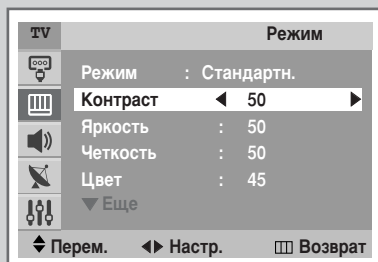
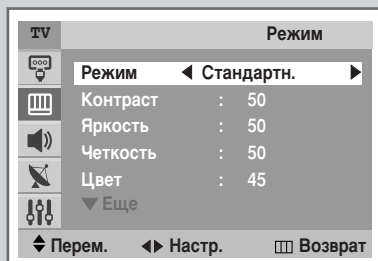
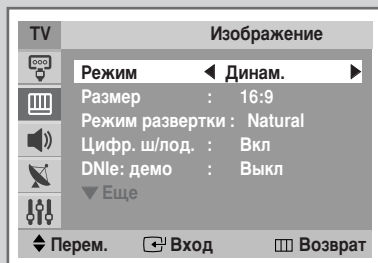
**Динам. – Стандартн. – Кино – Польз.**

➤ Вариант настройки изображения также можно выбрать с помощью кнопки **P.MODE** (P.MODE ; Изображение Режим).







# Настройка параметров изображения




*Изображение, отображаемое на экране телевизора, можно настроить, используя приведенные ниже параметры.*

- 1 Нажмите кнопку **MENU**().  
Результат: Отобразится главное меню.
- 2 Чтобы выбрать пункт **Изображение**, нажмите кнопку **▲** или **▼**.  
Результат: Отобразятся пункты меню, доступные в группе **Изображение**.
- 3 Нажмите кнопку **◀** или **▶**.  
Результат: Выбранный **Режим**.
- 4 Выберите необходимый режим изображения, повторно нажимая кнопку **◀** или **▶**.  
Результат: Доступны следующие режимы изображения:  
**Динам. – Стандартн. – Кино – Польз.**
- 5 При помощи кнопок **▲** или **▼** выберите параметр для настройки (**Контраст**, **Яркость**, **Четкость**, **Цвет**, или **Тон** – только в NTSC). Нажмите кнопку **◀** или **▶**. Эти параметры корректируются для каждого режима (**Динам.**, **Стандартн.**, **Кино**, или **Польз.**) отдельно.  
Результат: Отобразится горизонтальная полоса. Нажимайте кнопку **◀** или **▶** до достижения оптимальной настройки.
- 6 Нажмите кнопку **MENU**().  
Результат: Снова отобразятся доступные параметры.
- 7 Чтобы выбрать пункт **Оттенок**, нажмите кнопку **▲** или **▼**. Выберите необходимый параметр, нажимая кнопку **◀** или **▶**.  
Результат: Доступны следующие оттенки цветов:  
**Тепл. 2 – Тепл. 1 – Норм. – Хол. 1 – Хол. 2**
- 8 Чтобы вернуться к заводским установкам используйте кнопку **▲** или **▼** для выбора **Сброс**. Нажмите кнопку **◀** или **▶**. Функция сброса настраивается для каждого режима (**Динам.**, **Стандартн.**, **Кино**, или **Польз.**).  
Результат: Параметры, установленные ранее будут заменены на заводские установки.

- ♦ Телевизор оборудован системой автоматического размагничивания, которая включается при обнаружении магнитного взаимодействия. Чтобы размагнитить экран телевизора, выключите питание, нажав на передней панели кнопку "⓪" (Включить/выключить). (Обратитесь к разделу "Автоматическое размагничивание для устранения цветных пятен" на странице 44).


## Выбор размера изображения (в зависимости от модели)

При помощи кнопки "P.SIZE(  )" вы можете выбрать размер изображения на свой вкус.

из приведенного списка размеров:

◆ 16:9, Панорама, Увел. 1, Увел. 2, 4:3

➤ Подъем выполняется нажатием кнопок ▲ или ▼, в режиме Увел. 1 или Увел. 2.

1 Нажмите кнопку MENU().

Результат: Отобразится главное меню.

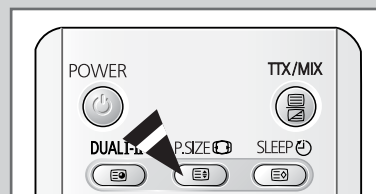
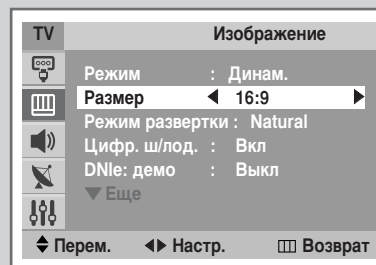
2 Чтобы выбрать пункт **Изображение**, нажмите кнопку ▲ или ▼.

Результат: Отобразятся пункты меню, доступные в группе **Изображение**.

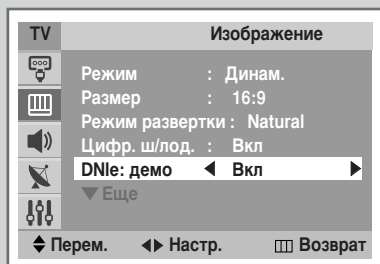
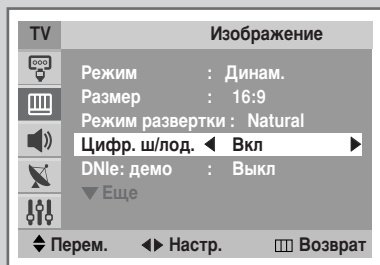
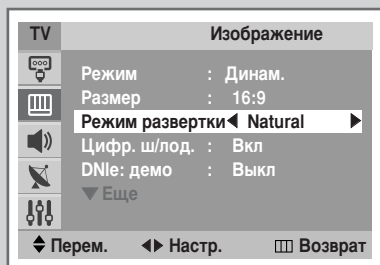
3 Нажмите кнопку ENTER().

4 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Размер**.

5 Нажмите кнопку ◀ или ▶, чтобы выбрать меню **Размер изображения**.



## Дополнительные параметры настройки изображения



### ◆ Режим развертки

Режим сканирования **Natural** наилучшим образом уменьшает незначительные мерцания изображения. Однако существует вероятность, что качество изображения некоторых каналов телевидения (NTSC) можно улучшить путем смены режима сканирования. Доступны режимы **Natural**, **Цифр.**, и **Прогрессив.**

### ◆ Цифр. ш/под.

Если телевизор принимается слабый сигнал, можно включить функцию подавления радиопомех и устранения двоения изображения.

### ◆ DNIe : демо

Этот телевизор оснащен функцией **DNIe**, предназначенной для обеспечения высокого качества изображения. Если для режима **DNIe : демо** установлено значение **Вкл**, на экране, в демонстрационных целях, отобразится одновременно обычное изображение и изображение с применением **DNIe**. Применение этой функции поможет увидеть разницу в качестве изображения. Даже при выключении **DNIe : демо** функция **DNIe** останется активной.

➤ **DNIe** (Digital Natural Image engine **DNIe™**)

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Чтобы выбрать пункт **Изображение**, нажмите кнопку **▲** или **▼**.

Результат: Отобразятся пункты меню, доступные в группе **Изображение**.

- 3 Нажмите кнопку **ENTER** (↵).

- 4 Выберите необходимый параметр (**Режим развертки**, **Цифр. ш/под.**, или **DNIe : демо**) при помощи кнопки **▲** или **▼**.

- 5 Чтобы изменить параметры настройки, нажмите кнопку **◀** или **▶**.

◆ **Режим развертки** : **Natural**, **Цифр.**, или **Прогрессив.**

◆ **Цифр. ш/под.** : **Выкл** или **Вкл**

◆ **DNIe : демо** : **Выкл** или **Вкл**

➤ Эти параметры также можно просмотреть, если нажать кнопку **DNIe**.

## Настройка синего экрана

*Если сигнал не принимается или сигнал очень слабый, изображение с помехами автоматически заменяется синим экраном.*

*Если вы все же хотите смотреть изображение с сильными помехами, необходимо отключить режим “Синий экран”*

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

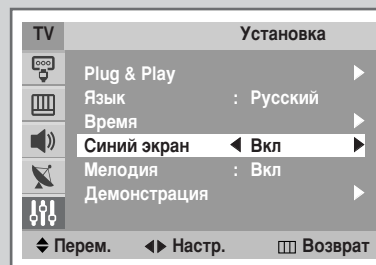
- 2 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Установка**.

Результат: Отобразятся пункты меню **Установка**.

- 3 Нажмите кнопку **ENTER** (⏏).

- 4 Нажмите кнопку ▲ или ▼, чтобы выбрать **Синий экран**.

- 5 Чтобы включить эту функцию, выберите **Вкл**, нажав кнопку ◀ или ▶.



## Использование функции регулировки наклона

*Если вы заметите, что принятое изображение слегка наклонено в одну сторону, можно отрегулировать наклон изображения.*

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

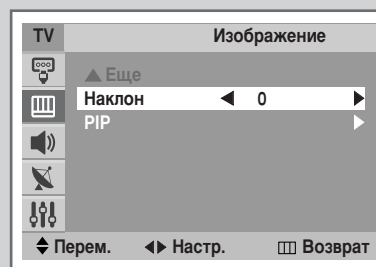
- 2 Чтобы выбрать пункт **Изображение**, нажмите кнопку ▲ или ▼.

Результат: Отобразятся пункты меню, доступные в группе **Изображение**.

- 3 Нажмите кнопку **ENTER** (⏏).

- 4 Нажмите кнопку ▲ или ▼, чтобы выбрать **Наклон**.

- 5 При помощи кнопки ◀ или ▶ подберите требуемое значение (от -7 до 7).



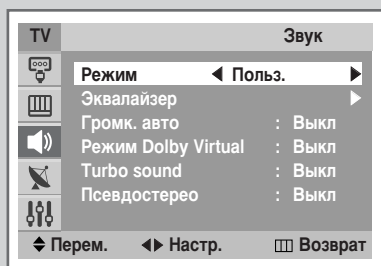
## Режим стоп-кадра



При просмотре телевизионной программы изображение можно остановить, просто нажав кнопку “STILL(▣)”.

- Для возврата в нормальный режим просмотра снова нажмите эту кнопку.

## Изменение стандарта звука



Вы можете выбрать один из перечисленных ниже специальных звуковых эффектов, который будет использоваться во время телевещания.

- 1 Нажмите кнопку **MENU**(□□□).

Результат: Отобразится главное меню.

- 2 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Звук**.

Результат: Отобразятся пункты меню **Звук**.

- 3 Нажмите кнопку **ENTER** (▣).

Результат: Будет выбран пункт **Режим**.

- 4 Нажимая кнопку ◀ или ▶, выберите необходимый звуковой эффект.

Результат: Доступны следующие звуковые эффекты:

Польз. – Стандарт – Муз. – Кино – Речь

- Эти параметры также можно просмотреть, если нажать кнопку **S.MODE** (◂◃); Звук Режим).

# Подстройка звуковых параметров

Вы можете настроить параметры звука на свой вкус.

- 1 Нажмите кнопку **MENU** (□□).

Результат: Отобразится главное меню.

- 2 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Звук**.

Результат: Отобразятся пункты меню **Звук**.

- 3 Нажмите кнопку **ENTER** (□+).

- 4 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Эквалайзер**.

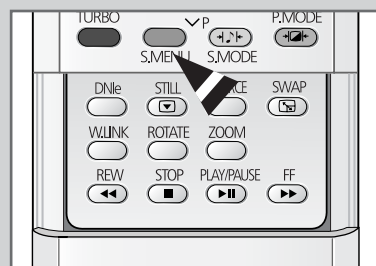
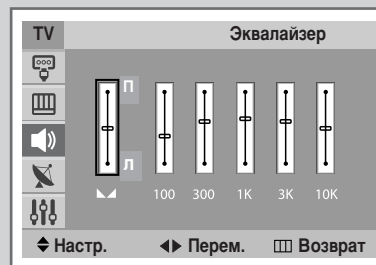
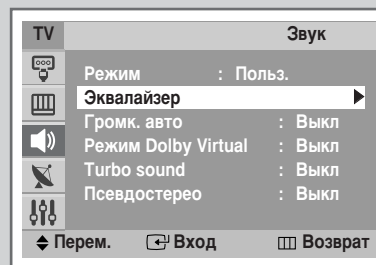
- 5 Нажмите кнопку **ENTER** (□+).

Результат: Отобразятся пункты меню **Эквалайзер**.

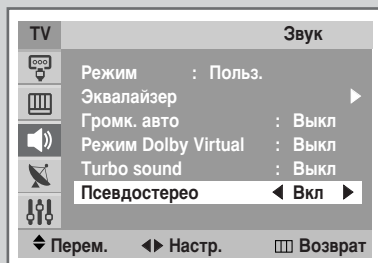
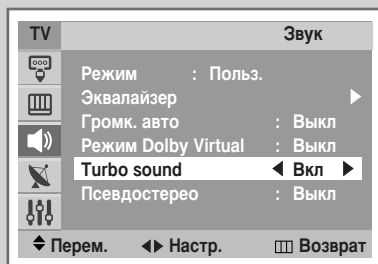
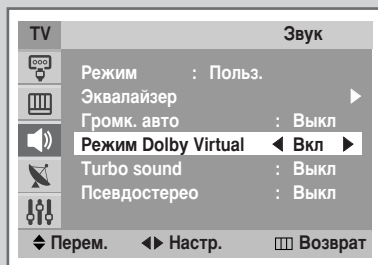
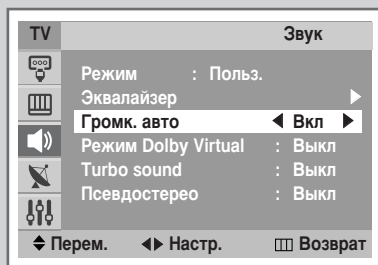
➤ Это меню также можно просмотреть, если нажать кнопку **S.MENU** (Меню звука).

- 6 Нажимая кнопку **◀** или **▶**, выберите параметр, который необходимо подстроить. При помощи кнопки **▲** или **▼** подберите требуемое значение.

➤ Если вы изменили хотя бы один из этих параметров, стандарт звука автоматически изменяется на **Польз..**



## Дополнительные настройки звука (в зависимости от модели)



### ◆ Громк. авто

У всех станций телевидения свои условия для передачи сигнала, в связи с чем иногда не очень удобно подстраивать громкость при каждом переключении канала. Эта функция позволяет автоматически подстраивать громкость необходимого канала, понижая громкость, если модуляционный сигнал слишком велик, или повышая громкость, если модуляционный сигнал слишком слабый.

### ◆ Turbo sound

Эта функция гармонично подчеркивает как высокие, так и низкие частоты звука (а также включает дополнительные эффекты). Можно слушать музыку, смотреть фильмы или другие программы с более динамичным и улучшенным звуком.

### ◆ Псевдостерео / Режим Dolby Virtual

Функция **Псевдостерео** преобразует монофонический звуковой сигнал в два одинаковых сигнала, для левого и правого каналов. Если функции **Псевдостерео** или **Режим Dolby Virtual** включены, то они влияют на все звуковые эффекты, такие как **Стандарт**, **Муз.**, **Кино**, и **Речь**.

- 1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

- 2 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Звук**.

Результат: Отобразятся пункты меню **Звук**.

- 3 Нажмите кнопку **ENTER** (□↵).

- 4 Выберите необходимый параметр (**Громк. авто**, **Режим Dolby Virtual**, **Turbo sound**, или **Псевдостерео**), нажимая кнопку **▲** или **▼**.

- 5 Чтобы включить любую из этих функций, выберите **Вкл**, нажав кнопку **◀** или **▶**.

➤ Изготовлено по лицензии фирмы Dolby Laboratories. Долбл, "Dolby" и символ двойным D-товарны Dolby Laboratories.





## Настройка мелодия

*Можно установить воспроизведение мелодии при включении или выключении телевизора.*

1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

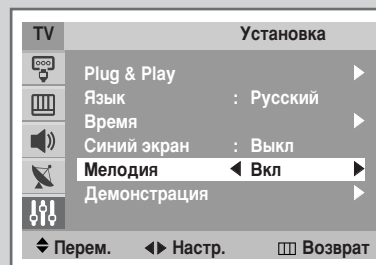
2 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Установка**.

Результат: Отобразятся пункты меню **Установка**.

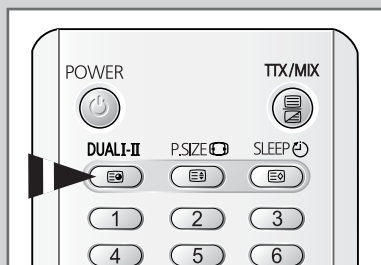
3 Нажмите кнопку **ENTER** (↵).

4 Нажмите кнопку ▲ или ▼, чтобы выбрать **Мелодия**.

5 Чтобы включить эту функцию, выберите **Вкл**, нажав кнопку ◀ или ▶.



## Выбор режима звука (в зависимости от модели)



Кнопка “DUAL I-II” отображает и управляет обработкой и выводом звукового сигнала. При включении питания режим автоматически устанавливается в значение “Dual-I” или “Stereo”, в зависимости от текущих параметров передачи сигнала.

|                         | Тип телевидения                           | Отображение на экране   |
|-------------------------|---|---|
| <b>NICAM<br/>Стерео</b> | Обычное телевидение<br>(стандартный звук) | <b>MONO</b><br>(Обычное использование)                                |
|                         | Обычное +<br>NICAM Моно                   | <b>MONO ↔ MONO</b><br><b>NICAM</b> (Обычное)                          |
|                         | NICAM Стерео                              | <b>STEREO ↔ MONO</b><br><b>NICAM</b> (Обычное)                        |
|                         | NICAM Двойной-I/II                        | <b>Dual-I → Dual-II → MONO</b><br><b>NICAM NICAM</b> (Обычное)<br>↑ ↑ |
| <b>A2<br/>Стерео</b>    | Обычное телевидение<br>(стандартный звук) | <b>MONO</b><br>(Обычное использование)                                |
|                         | Двухязычный или<br>двойной-I/II           | <b>Dual-I ↔ Dual-II</b>   |
|                         | Стерео                                    | <b>STEREO ↔ MONO</b><br>(Назначенное моно)                            |

- ◆ Если условия приема сигнала ухудшаются, то звук лучше прослушивать в режиме **Mono**.
- ◆ Если стереосигнал слишком слаб и происходит автоматическое переключение, выберите режим **Mono**.
- ◆ При получении монофонического звука в режиме AV подключите к разъему “AUDIO-L” входной соединитель на передней или боковой панели. Если монофонический звук слышен только из левого динамика, нажмите кнопку **DUAL I-II**.

## Установка и отображение текущего времени

Вы можете настроить часы телевизора таким образом, чтобы при нажатии на кнопку "INFO" на экран выводилось текущее время. Кроме того, установка текущего времени необходима, если вы хотите использовать таймеры включения и выключения.

➤ При нажатии кнопки "ⓘ" (Включение/выключение) на передней панели телевизора настройки часов будут сброшены.

1 Нажмите кнопку **MENU** (☰).

Результат: Отобразится главное меню.

2 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Установка**.

Результат: Отобразятся пункты меню **Установка**.

3 Нажмите кнопку **ENTER** (↵).

4 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Время**.

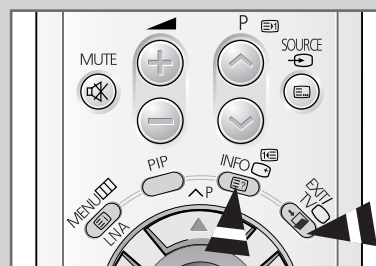
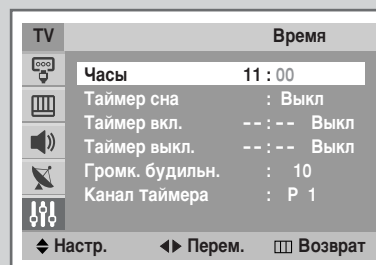
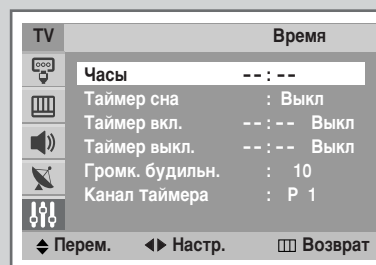
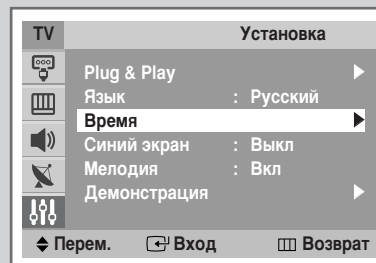
5 Нажмите кнопку **ENTER** (↵).

Результат: Будет выбран пункт **Часы**.

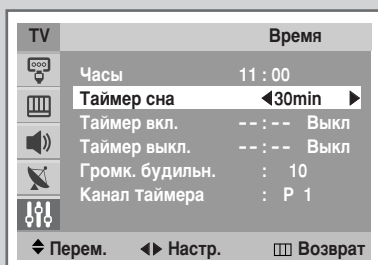
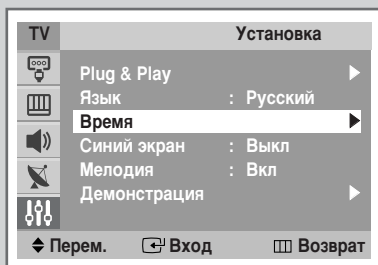
6 Нажимая кнопку ◀ или ▶, перейдите к часам или минутам. Задайте час или минуту при помощи кнопки ▲ или ▼.

7 После завершения нажмите кнопку **EXIT** (→), чтобы выйти.

8 Для отображения текущего времени и информации о каналах нажмите кнопку **INFO** (ⓘ).



## Установка таймера перехода в режим ожидания



*Можно установить телевизор на автоматическое выключение через заданный интервал времени.*

1 Нажмите кнопку **MENU** (▢▢▢).

Результат: Отобразится главное меню.

2 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Установка**.

Результат: Отобразятся пункты меню **Установка**.

3 Нажмите кнопку **ENTER** (◀▶).

4 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Время**.

5 Нажмите кнопку **ENTER** (◀▶).

Результат: Будет выбран пункт **Часы**.

6 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Таймер сна**.

7 Нажимая кнопку ◀ или ▶, выберите нужный временной интервал (**Выкл**, **30min**, **60min**, **90min**, **120min**, **150min**, **180min**).

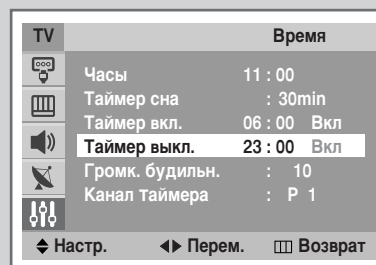
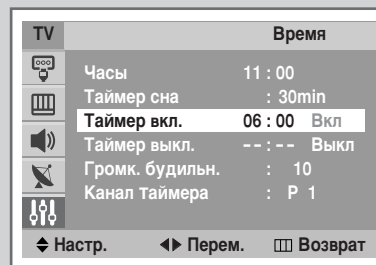
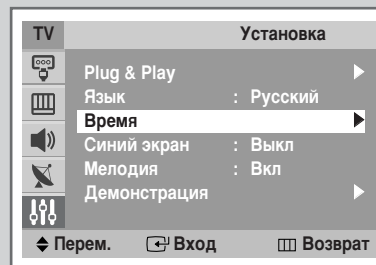
➤ Нажав кнопку **SLEEP** (⏸), вы можете задать период времени (от 30 до 180 минут), по истечении которого телевизор автоматически переключится в режим ожидания.

# Автоматическое включение и выключение телевизора

Таймеры включения и выключения можно устанавливать таким образом, чтобы:

- ◆ Телевизор автоматически включался и настраивался на выбранный канал в заданное время.
- ◆ Автоматически отключался в заданное время.

➤ Сначала необходимо задать точное время в часах телевизора (обратитесь к разделу "Установка и отображение текущего времени" на стр. 31). Если часы еще не установлены, отобразится сообщение: "Сначала установите часы".



1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

2 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Установка**.

Результат: Отобразятся пункты меню **Установка**.

3 Нажмите кнопку **ENTER** (□+).

4 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Время**.

5 Нажмите кнопку **ENTER** (□+).

Результат: Будет выбран пункт **Часы**.

6 Нажмите кнопку **▲** или **▼**, чтобы выбрать пункт **Таймер вкл.**.  
Установите время, в которое телевизор должен включиться автоматически.

- ◆ Нажимая кнопку **◀** или **▶**, перейдите к часам или минутам. Задайте эти параметры при помощи кнопки **▲** или **▼**.
- ◆ Нажмите кнопки **◀** или **▶** для перехода к пункту **Выкл.**, затем нажмите кнопки **▲** или **▼** для выбора пункта **Вкл.**

7 Нажмите кнопку **▲** или **▼**, чтобы выбрать пункт **Таймер выкл.**.  
Так же как и было описано выше, установите время, в которое телевизор должен выключиться автоматически.

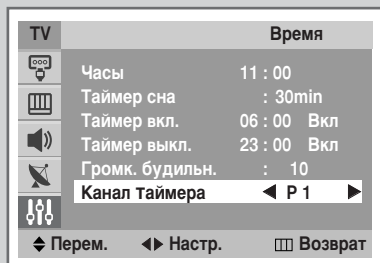
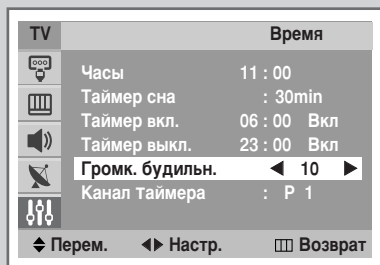
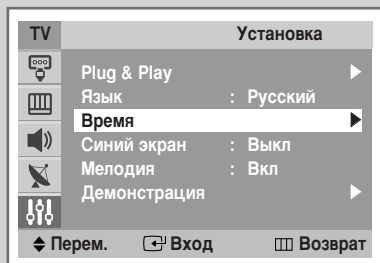
## ➤ Автоматическое выключение питания

Если таймер установлен в режим **Вкл.**, телевизор выключится через три часа после срабатывания таймера при условии, что в течение этого времени не задействовались никакие органы управления телевизором. Эта функция доступна только в том случае, если таймер находится в режиме **Вкл.**

Она позволяет избежать перегрева телевизора или потерь в результате продолжительной работы телевизора, включенного при срабатывании таймера (например, когда вы в отпуске)

## Установка нужного уровня громкости/Канал

*Нужный уровень громкости/Канал можно установить после того, как таймер автоматически включит телевизор.*



1 Нажмите кнопку **MENU**()

Результат: Отобразится главное меню.

2 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Установка**.

Результат: Отобразятся пункты меню **Установка**.

3 Нажмите кнопку **ENTER** ()

4 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Время**.

5 Нажмите кнопку **ENTER** ()

Результат: Будет выбран пункт **Часы**.

6 Нажмите кнопку **▲** или **▼**, чтобы выбрать пункт **Громк. будильн.**

7 Настройте уровень громкости, нажимая кнопку **◀** или **▶**.

8 Нажмите кнопку **▲** или **▼**, чтобы выбрать пункт **Канал таймера**.

9 Настройте уровень Канал, нажимая кнопку **◀** или **▶**.

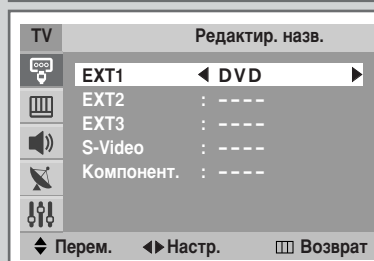
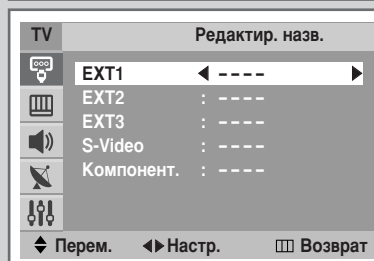
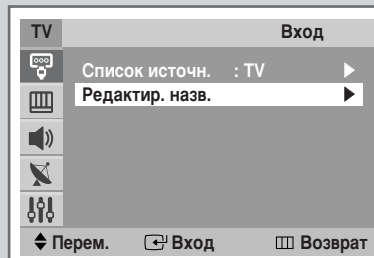
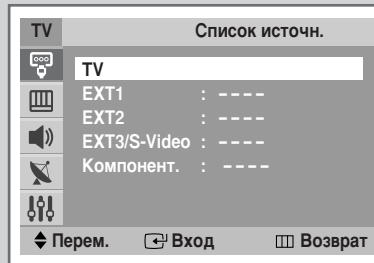
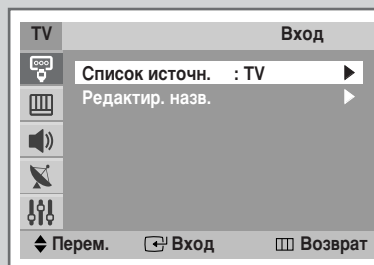
## Просмотр внешних источников сигнала/редактир. назв. (в зависимости от модели)

Используйте пульт ДУ для переключения между подключенными источниками внешнего сигнала, такими как видеомаягнитофон, DVD-проигрыватель, видеопроставки, и телевизионным источником (антенный или кабельный)

- 1 Нажмите кнопку **MENU** (□□□).  
Результат: Отобразится главное меню.
- 2 Нажмите кнопку **ENTER** (↵), чтобы выбрать меню **Вход**.  
Результат: Отобразятся пункты меню, доступные в группе **Вход**.
- 3 Снова нажмите кнопку **ENTER** (↵) для выбора пункта **Список источн.**  
Результат: Отобразятся пункты меню, доступные в группе **Список источн.**
- 4 Нажимая кнопку **▲** или **▼**, выберите нужный источник сигнала, а затем нажмите кнопку **ENTER** (↵).
  - Для подсоединения к телевизору оборудования можно выбрать одну из следующих групп входных гнезд: **EXT1**, **EXT2**, или **Компонент**. на задней панели телевизора и **EXT3/S-Video** на боковой панели телевизора.
  - Эти параметры также можно установить с помощью кнопки **SOURCE** (↻). Если вы меняете источник внешнего сигнала во время просмотра изображения, новое изображение может появляться на экране не сразу.

### Редактир. назв.

- 1 Нажмите кнопку **MENU** (□□□).  
Результат: Отобразится главное меню.
- 2 Нажмите кнопку **ENTER** (↵) чтобы выбрать меню **Вход**.  
Результат: Отобразятся пункты меню, доступные в группе **Вход**.
- 3 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Редактир. назв.**. Нажмите кнопку **ENTER** (↵).  
Результат: Отобразятся пункты меню, доступные в группе **Редактир. назв.**
- 4 Выберите внешнее устройство, нажимая кнопку **▲** или **▼**:  
**EXT1 – EXT2 – EXT3 – S-Video – Компонент**.
- 5 Нажмите кнопку **◀** или **▶**.
- 6 Выберите название, нажимая кнопку **◀** или **▶**.
- 7 Установите другие источники сигнала (**EXT1**, **EXT2**, **EXT3**, **S-Video**, **Компонент**.), используя указанный выше способ.

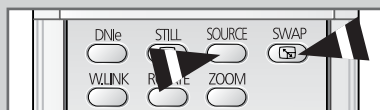
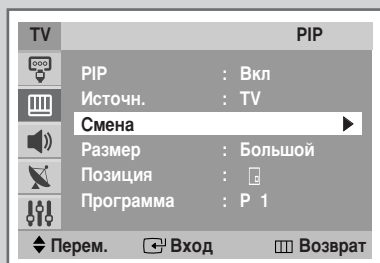
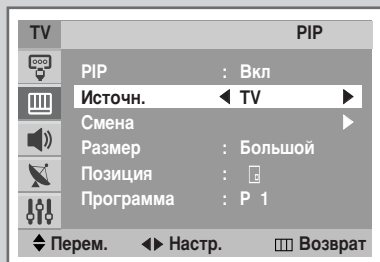
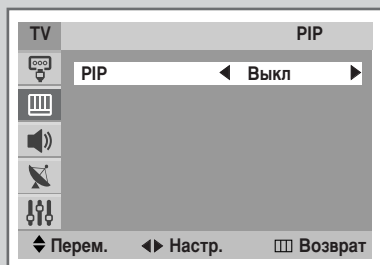
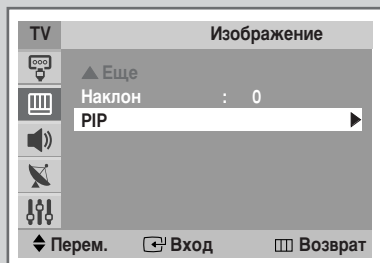




## Просмотр изображений в режиме Изображение в изображении (PIP) (в зависимости от модели)

➤ Не применяется в режиме Компонент.

*В пределах основного изображения телевизионной программы или внешнего устройства, такого как видеомаягнитофон или DVD-проигрыватель, можно отображать дополнительное изображение. Таким образом можно смотреть телевизионную программу или наблюдать за входящим видеосигналом с любых подсоединенных устройств во время просмотра телевизора или видеомаягнитофона.*



1 Нажмите кнопку **MENU** (□□□).

Результат: Отобразится главное меню.

2 Чтобы выбрать пункт **Изображение**, нажмите кнопку **▲** или **▼**.

Результат: Отобразятся пункты меню, доступные в группе **Изображение**.

3 Нажмите кнопку **ENTER** (↵).

4 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **PIP**. Нажмите кнопку **ENTER** (↵).

5 Нажмите кнопку **◀** или **▶**, чтобы выбрать меню **Вкл**.

Результат: Отобразятся пункты меню, доступные в группе **PIP**.

➤ Вы можете также включить режим PIP, просто нажав кнопку **PIP**. Чтобы отключить функцию, снова нажмите эту кнопку.

6 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Источн.**

7 При помощи кнопки **◀** или **▶** выберите источник сигнала для вложенного изображения.

Результат: Появится список доступных источников сигнала.

### TV – EXT1 – EXT2 – EXT3/S-Video

➤ В некоторых моделях телевизоров функция PIP не будет работать, если для главного и дополнительного изображения выбран один и тот же источник. Если в окне главного изображения идет просмотр телевизионного канала, функция PIP недоступна для телевизионных каналов. Если выбран телевизионный источник, на экране появится сообщение **"Недоступно"**. Функция PIP доступна, когда для главного и дополнительного изображения выбран разный источник входных сигналов.

➤ Вариант настройки изображения также можно выбрать с помощью кнопки **SOURCE**.

8 Нажмите кнопку **▲** или **▼**, чтобы выбрать меню **Смена**.

9 Нажмите кнопку **ENTER** (↵).

Результат: Основное и вложенное изображения меняются местами.

➤ Можно также поменять местами дополнительное и главное изображение, просто нажав кнопку **SWAP** (↔).

10 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Размер**.

11 При помощи кнопки ◀ или ▶ выберите размер вложенного изображения.  
Результат: Размеры будут отображаться в следующем порядке:

**Большой – Малый – Двойной экр. – 16 PIP**

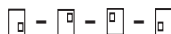
- ◆ **16 PIP** : В дополнительном изображении можно просматривать одновременно до 16-ти сохраненных в памяти каналов.
- ◆ При установке для параметра **Размер** значения **16 PIP** невозможно выбрать **Смена**, **Позиция**, и **Программа**.
- ◆ При установке для параметра **Размер** значения **Двойной экр.** можно выбрать **Позиция**.

➤ Размер вложенного изображения можно также выбирать с помощью кнопки **SIZE**.

12 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Позиция**.

13 Нажмите кнопку ◀ или ▶.

Результат: Появятся доступные для вложенного изображения



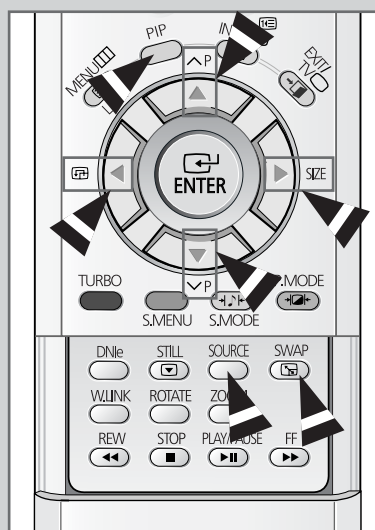
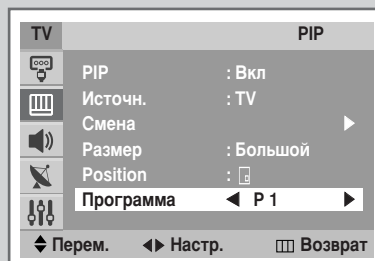
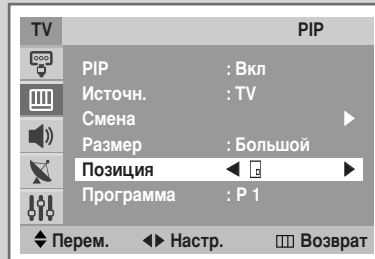
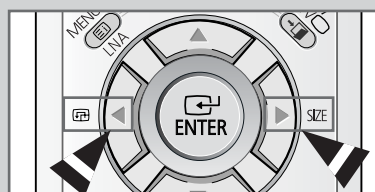
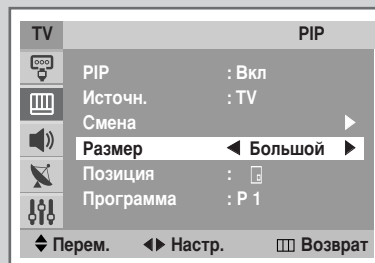
➤ Выбор можно сделать, просто нажимая [P] (Позиция) кнопку.

14 Нажмите кнопку ▲ или ▼, чтобы выбрать меню **Программа**. Канал, изображение которого будет отображаться в дополнительном окне, выбирается с помощью кнопки ◀ или ▶.

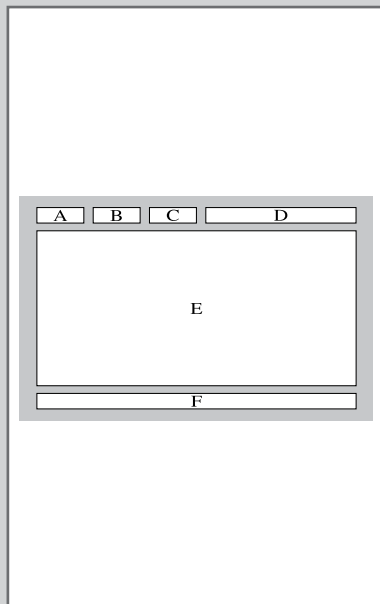
- ◆ Если для параметра **Источн.** источника вложенного изображения задано значение **TV**, то для вложенного изображения можно выбирать канал.
- ◆ Выбор канала для вложенного изображения осуществляется нажатием кнопки ▼ или ▲.

### Быстрые функции пульта ДУ

| Кнопки           | Функция  |
|------------------|--|
| PIP              | Используется для непосредственного включения и выключения функции PIP.   |
| SWAP<br>([S])    | При нажатии на эту кнопку основное и дополнительное изображения меняются местами.<br>➤ Если главное изображение находится в режиме Видео, а дополнительное изображение - в телевизионном режиме, то после использования кнопки <b>SWAP</b> ([S]) в главном изображении может пропасть звук. В этом случае выберите канал главного изображения еще раз. |
| SOURCE           | Выбор источника сигнала для дополнительного изображения ( <b>TV</b> , <b>EXT1</b> , <b>EXT2</b> , или <b>EXT3/S-Video</b> ).   |
| SIZE             | Выбор размера дополнительного изображения ( <b>Большой</b> , <b>Малый</b> , <b>Двойной экр.</b> , <b>16 PIP</b> ).   |
| [P]<br>(Позиция) | Используется для перемещения дополнительного изображения против часовой стрелки.   |
| P ▲/▼            | Используется для выбора канала дополнительного изображения.  |



## Функция телетекста



*Большинство телевизионных каналов предоставляют при помощи телетекста информацию в текстовом виде. Предоставляемая информация включает:*

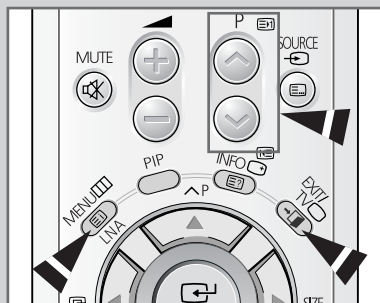
- ◆ Программу телепередач
- ◆ Основные новости и прогноз погоды
- ◆ Спортивные сводки
- ◆ Информацию о путешествиях

*Эта информация разделена на пронумерованные страницы (см. диаграмму).*

| Часть | Содержание                                     |
|-------|--|
| A     | Номер выбранной страницы.                      |
| B     | Идентификатор канала телевидения.              |
| C     | Номер текущей страницы или индикации поиска.   |
| D     | Дата и время.                                  |
| E     | Текст.   |
| F     | Информация о состоянии.<br>Информация FASTEXT. |

- Может различаться в зависимости от источника ТТХ.
- Обычно информация телетекста разделяется на несколько страниц, которые последовательно отображаются и могут быть просмотрены следующим образом:
  - ◆ По номеру выбранной страницы
  - ◆ По выбору заголовка из списка
  - ◆ По выбору цветного заголовка (система FASTEXT)

## Отображение информации телетекста



*Информацию телетекста можно отобразить в телевизоре в любое время.*

- ☞ Чтобы информация телетекста была отображена надлежащим образом, сигнал принимаемого канала должен быть стабильным, иначе:
  - ◆ Могут возникать пропуски информации
  - ◆ Некоторые страницы могут быть не отображены



- 1 При помощи кнопки **P** или выберите канал, который предоставляет услугу телетекста.
- 2 Нажмите кнопку **TTX/MIX**, чтобы включить режим телетекста.  
Результат: Отобразится страница содержания. Эту страницу можно вызвать в любое время, нажав кнопку (индекс).
- 3 Если необходимо отобразить текущий канал и страницу телетекста одновременно, нажмите кнопку **TTX/MIX** еще раз.
- 4 Нажмите кнопку **TV**, чтобы выйти из режима телетекста.

# Выбор страницы по номеру








**Номер страницы можно ввести непосредственно, нажав соответствующую кнопку на пульте ДУ.**

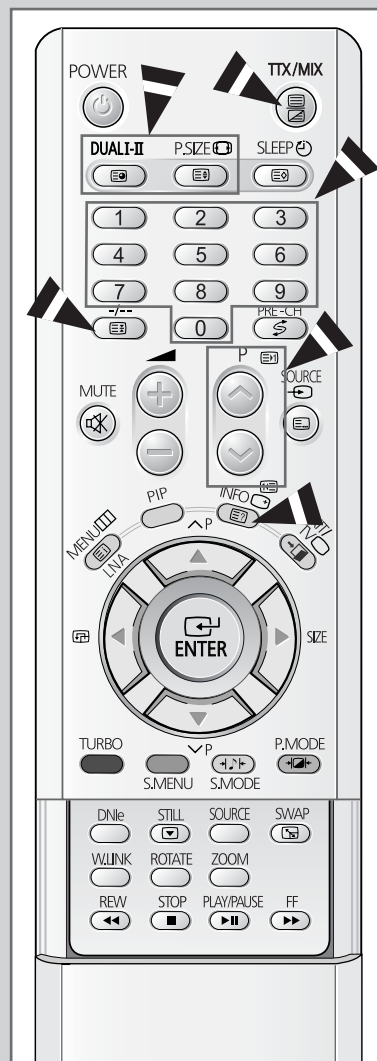
- 1 Введите три цифры номера страницы, нажимая соответствующие цифровые кнопки.

**Результат:** Счетчик текущей страницы увеличивается и отображается выбранная страница.

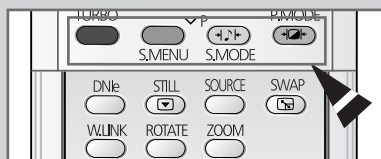
- 2 Если к выбранной странице подсоединены несколько дополнительных страниц, дополнительные страницы будут отображены последовательно. Чтобы остановиться на отображаемой странице, нажмите кнопку  (фиксация). Чтобы продолжить, нажмите кнопку  (фиксация) еще раз.

## Использование различных параметров отображения:

| Для того, чтобы отобразить...   | Нажмите...  |
|---|---|
| ◆ Одновременно информацию телетекста и изображение телеканала   | кнопку <b>ТТХ/МІХ</b> (  ) дважды  |
| ◆ Скрытый текст (например, ответы на вопросы)   |  (открыть)   |
| ◆ Обычный экран   |  (открыть) еще раз   |
| ◆ Дополнительную страницу, введя номер из 4-х цифр  |  (дополнительная страница)   |
| ◆ Следующую страницу  |  (страница вверх)  |
| ◆ Предыдущую страницу   |  (страница вниз)   |
| ◆ Буквы двойного размера в: <ul style="list-style-type: none"> <li>• Верхней половине экрана</li> <li>• Нижней половине экрана</li> </ul> |  (размер) <ul style="list-style-type: none"> <li>• Один раз</li> <li>• Два раза</li> </ul> |
| ◆ Обычный экран   | • Три раза  |



## Применение функции “FLOF” к выбранной странице



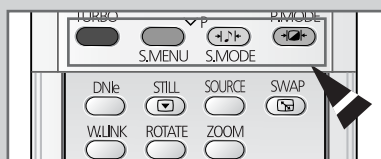
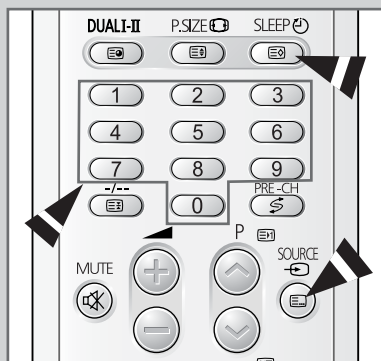
*Различные разделы, входящие в страницы телетекста, закодированы цветами и их можно выбирать, нажимая цветные кнопки на пульте ДУ.*

- 1 Отобразите содержание страниц телетекста, нажав кнопку TTX/MIX (☰/☑).
- 2 Нажмите цветную кнопку, соответствующую разделу, который вы хотите просмотреть; доступные разделы приведены в строке состояния.

Результат: Страница отображается с такой же цветовой информацией, которая может быть выбрана таким же образом.

- 3 Чтобы выбрать предыдущую или следующую страницу, нажмите соответствующую цветную кнопку.
- 4 Чтобы отобразить дополнительную страницу, выполните следующие инструкции:
  - ◆ Нажмите кнопку ☑ (дополнительная страница).  
Результат: Появятся доступные дополнительные страницы.
  - ◆ Выберите требуемую дополнительную страницу. Дополнительные страницы можно прокручивать при помощи кнопки TURBO (Красный) или S.MENU (Веленый).

## Сохранение страниц телетекста



*Можно сохранить до четырех страниц телетекста, чтобы просмотреть их позже.*

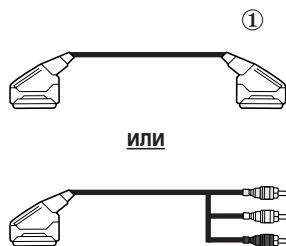
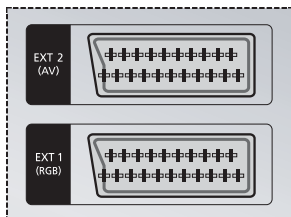
- 1 Выберите режим LIST при помощи кнопки ☰.  
Результат: Четыре трехзначных числа отобразятся разными цветами.  
➤ Кнопка ☰ служит для переключения между режимами LIST и FLOF.
- 2 Нажмите цветную кнопку, соответствующую той странице, которая будет заменена.
- 3 При помощи цифровых клавиш введите номер новой страницы.
- 4 Повторяйте пункты 2 и 3 с каждой сохраняемой страницей, используя каждый раз разные цветные кнопки.
- 5 Нажимайте кнопку ☑ (сохранить) до тех пор, пока не замигает соответствующий блок.

## Подсоединение к внешним источникам и приемникам сигнала

- Пожалуйста, соблюдайте соответствие маркированных цветом входных клемм и разъемов кабеля

- “EXT 1 (RGB)” используется для оборудования с RGB-выводом, например, игровых видео-приставок или проигрывателей видеодисков.

### Задняя панель телевизора



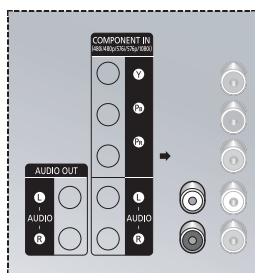
- ① Эта часть может использоваться для:
  - ◆ Разъема SCART
  - ◆ Трех разъемов RCA (VIDEO + AUDIO – L и R)
- ② Если у вас есть второй видеомаягнитофон и вы хотите сделать копию кассеты, подсоедините один видеомаягнитофон, с которого будет вестись запись, к разъему “EXT 1 (RGB)”, а второй видеомаягнитофон - к разъему “EXT 2 (AV)”, после чего можно будет перенаправить сигнал с “EXT 1 (RGB)” на “EXT 2 (AV)”.
- ③ Если у вас есть декодер, подсоедините его к видеомаягнитофону, а видеомаягнитофон - к телевизору.
- ④ Когда необходимо записать программу, подсоедините приемник к разъему “EXT 1 (RGB)”, а видеомаягнитофон - к разъему “EXT 2 (AV)”, после чего можно будет перенаправить сигнал с “EXT 1 (RGB)” на “EXT 2 (AV)”.



## Подсоединение к разъему аудиовыхода

- Разъемы AUDIO OUT (RCA) используются для такого оборудования, как аудиосистемы (чтобы воспользоваться преимуществом эффекта трехмерного звука).

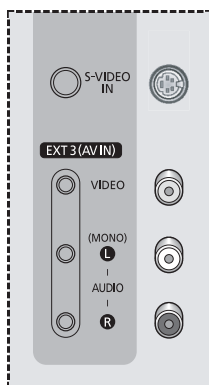
### Задняя панель телевизора



## Подсоединение к входным разъемам RCA

- Разъемы RCA (**VIDEO** и **AUDIO - L+R**) используются для подключения видеокамер, проигрывателей видеодисков, а также некоторых игровых приставок.

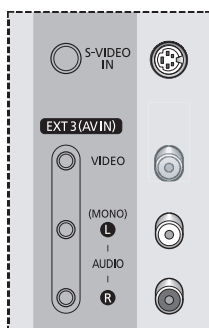
### Боковая панель телевизора



## Подсоединение к входному разъему S-Video

- Разъемы **S-VIDEO** и RCA (**AUDIO - L+R**) используются для подключения устройств с выводом в формате S-Video, таких как видеокамеры или видеомагнитофоны.

### Боковая панель телевизора



И



- ① Для воспроизведения изображения и звука необходимо использовать оба разъема: как S-VIDEO, так и RCA.



При подключении аудио- или видеосистемы к телевизору убедитесь, что эти устройства выключены.

За дополнительными инструкциями по подсоединению и правилам безопасности обращайтесь к руководствам по эксплуатации соответствующего оборудования.

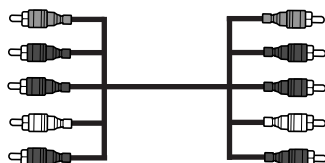
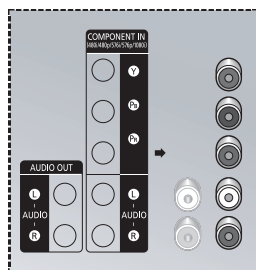


Если и **AV IN 3 Video IN**, и **S-VIDEO** подсоединены к внешнему оборудованию, то приоритет имеет **S-VIDEO**.



## Подсоединение к проигрывателю DVD

### Задняя панель телевизора




- ◆ Подсоедините один конец кабеля RCA к гнездам “L” и “R” на задней панели телевизора, а другой - к разъему “Audio Out” проигрывателя DVD. Подсоедините один конец кабеля RCA к гнездам “Y”, “Pb”, и “Pr” на задней панели телевизора, а другой - к разъемам “Component Video Out (Y, Pb, Pr)” проигрывателя DVD.
- ◆ В режиме **Компонент**. на монитор выводится сигнал, соответствующий черному цвету.

➤ Доступные форматы входов компонент: 480i, 480p, 576i, 576p, 1080i - 50 Гц.

## Просмотр изображений, сигнал которых поступает от внешних источников


*После того как к телевизору были подключены различные аудио- и видеосистемы, вы можете просматривать изображения, сигнал которых поступает от подключенных источников, выбрав соответствующий вход.*

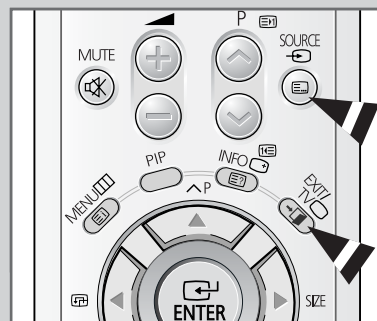
- 1 Убедитесь, что все внешние устройства правильно подсоединены.
- 2 Включите телевизор, а затем нажимайте кнопку **SOURCE** (  ).

Результат: Источники входящего сигнала будут отображаться в следующем порядке:

**EXT1 – EXT2 – EXT3/S-Video - Компонент.**

➤ В зависимости от выбранного источника, изображения могут появляться автоматически.


➤ Чтобы вернуться к просмотру телевизионных программ, нажмите кнопку **TV** (  ) и выберите номер необходимого канала.



## Автоматическое размагничивание для устранения цветных пятен

Размагничивающая катушка установлена вокруг трубки вывода изображения, поэтому обычно не возникает необходимости размагничивать телевизор вручную.

Если после перемещения телевизора в другое место на экране появятся цветные пятна, нужно выполнить следующее:

- ◆ Выключите телевизор, нажав кнопку “⏻” (Включение/выключение) на передней панели
  - ◆ Отсоедините телевизор от розетки электропитания
  - ◆ Оставьте телевизор отключенным на период времени около 30 минут, чтобы сработала функция автоматического размагничивания, а затем нажмите кнопку “POWER (⏻)” на пульте ДУ.
-  Если вы не собираетесь пользоваться телевизором некоторое время, отключите его, нажав кнопку “⏻” (Включение/выключение).

## Устранение неполадок: Прежде чем обращаться к обслуживающему персоналу

*Прежде чем обратиться в службу технической поддержки Samsung, попытайтесь выполнить приведенные ниже инструкции.*

*Если эти инструкции не помогли устранить неполадку, запишите номер модели и серийный номер телевизора, после чего обратитесь к местному представителю торговой сети Samsung.*

|  |   |
|--|---|
| Отсутствуют звук или изображение                   | <ul style="list-style-type: none"><li>◆ Проверьте надежность подсоединения кабеля электропитания.</li><li>◆ Убедитесь, что вы нажали кнопку "⏻" (Включение/выключение) и кнопку <b>POWER</b> (⏻).</li><li>◆ Проверьте значения параметров контрастности и яркости.</li><li>◆ Проверьте громкость.</li></ul> |
| Изображение нормальное, но звук отсутствует.       | <ul style="list-style-type: none"><li>◆ Проверьте громкость.</li><li>◆ Проверьте, не была ли нажата на пульте ДУ кнопка <b>MUTE</b> (🔇).</li></ul>  |
| Нет изображения или изображение черно-белое        | <ul style="list-style-type: none"><li>◆ Отрегулируйте настройки цвета изображения.</li><li>◆ Отрегулируйте настройки цвета изображения. Убедитесь, что выбрана правильная система телевидения.</li></ul>  |
| Помехи в звуке и изображении                       | <ul style="list-style-type: none"><li>◆ Попробуйте найти электрическое устройство, которое влияет на телевизор, и переставьте его в другое место.</li><li>◆ Подсоедините телевизор к другой розетке электропитания.</li></ul>   |
| Размытое или рябящее изображение и искаженный звук | <ul style="list-style-type: none"><li>◆ Проверьте направление, месторасположение и подключение своей антенны.</li><li>◆ Помехи часто возникают при использовании комнатной антенны.</li></ul>   |
| Неисправности в работе пульта ДУ                   | <ul style="list-style-type: none"><li>◆ Замените батареи пульта ДУ.</li><li>◆ Прочистите верхний край пульта ДУ (окно передачи).</li><li>◆ Проверьте зажимы батареи.</li></ul>  |

## Технические спецификации

| Модель      | Соотношение сторон экрана | Размер экрана в дюймах | Полный размер диагональ и экрана (См) | Размер диагональ и рабочей области экрана (См) | Поддерживаемые режимы цветности | Поддерживаемые режимы звука | Размеры в мм |     |     | Вес в кг | Моно/стерео |
|-------------|---------------------------|------------------------|---------------------------------------|--|---------------------------------|-----------------------------|--------------|-----|-----|----------|-------------|
|             |                           |                        |                                       |  |                                 |                             | В            | Ш   | Г   |          |             |
| WS-32Z30HEQ | 16:9                      | 32                     | 82                                    | 76   | PAL/SECAM/NTSC/NT4.43           | B/G, D/K, I, M              | 934          | 406 | 568 | 54.5     | Стерео      |

# Технические спецификации

| Мощность<br>встроенных<br>динамиков | Электрические параметры |                     |                              | Типы установленных разъёмов |                       |           |                                   | Дополнительные аксессуары |           |   |                            |
|-------------------------------------|-------------------------|---------------------|------------------------------|-----------------------------|-----------------------|-----------|-----------------------------------|---------------------------|-----------|---|----------------------------|
|                                     | Напряжение,<br>В        | Частота тока,<br>Гц | Потребляемая<br>мощность, Вт | SCART                       | S-VIDEO/RCA<br>(Вход) | RCA выход | Головные<br>телефоны<br>/ наушник | Пульт ДУ                  | Батарейки | Переходник для<br>подключения<br>комнатной<br>антенны | Инструкция<br>пользователя |
| 10W X 2                             | 160-300V~               | 100                 | 185Вт                        | есть                        | есть                  | нет       | нет                               | есть                      | есть      | нет   | есть                       |

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## **– СЕРВИСНОЕ ОБСЛУЖИВАНИЕ**

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- Если изменения в работе изделия указывают на возможную его неисправность, незамедлительно обратитесь к продавцу изделия или к представителю службы технической поддержки.



**ELECTRONICS**

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