

LCD Color Television

32AV603PG

Ver. 2.01

This model is classified as a green product (*1), as indicated by the underlined serial number.
This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).
For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

IMPORTANT NOTICE

WARNING:

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IMPORTANT NOTICE

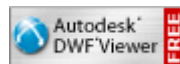
User's Guide

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Install Autodesk DWF Viewer

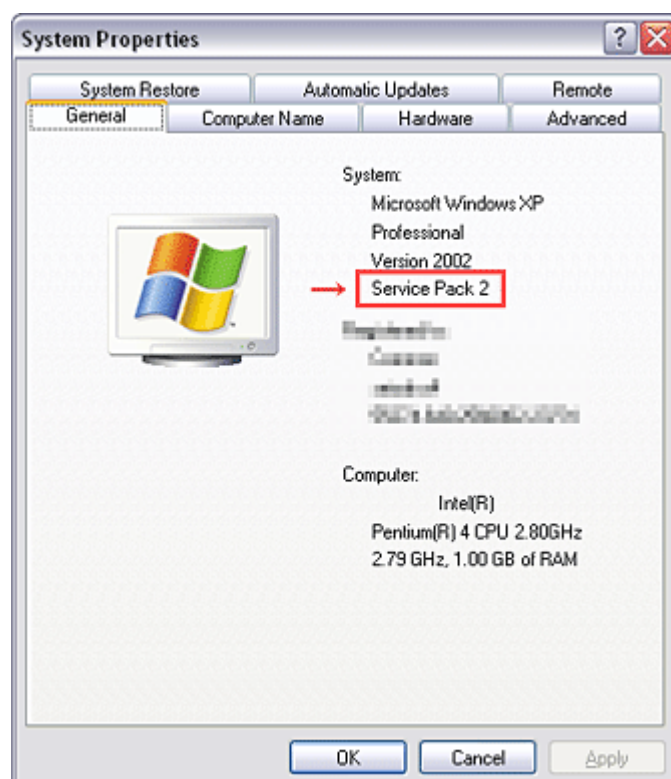
Autodesk DWF Viewer is necessary to view drawings and to activate the functions of this system. Please download and install.



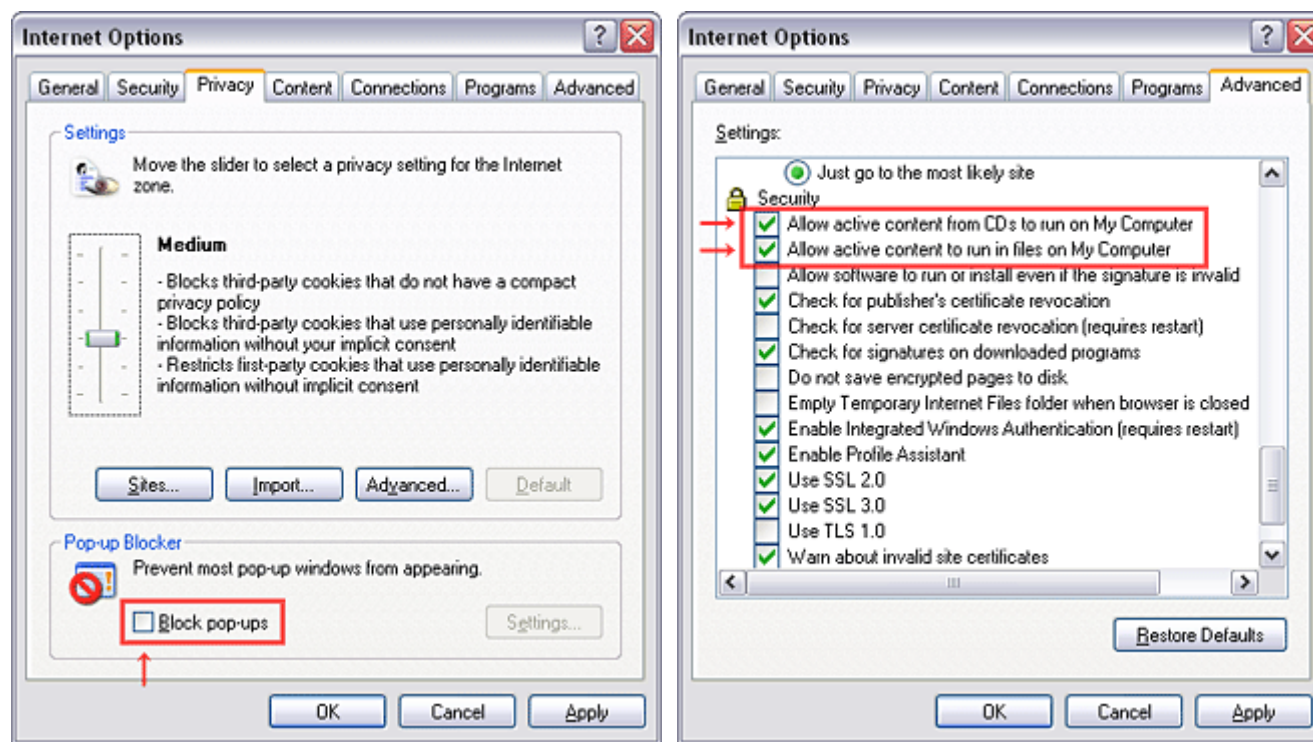
Internet Explorer Settings

When **Windows XP SP2** or **Windows Vista** is used, ActiveX control and pop-up windows are limited by the enhanced security function and this system may not work. In that case, perform the Internet Explorer setting using the following procedure to restore normal operation.

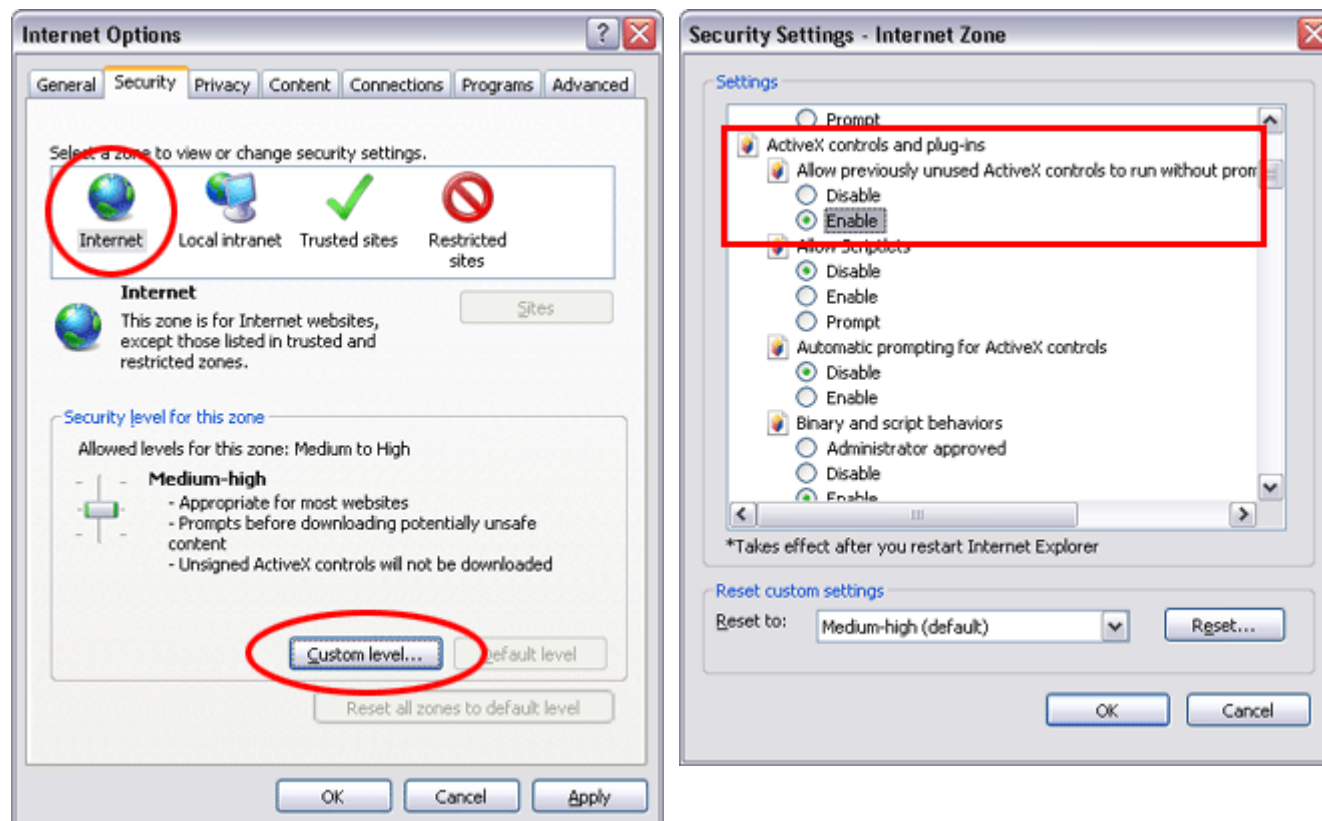
1. Windows version check
[My Computer (right-click)] - [Properties]



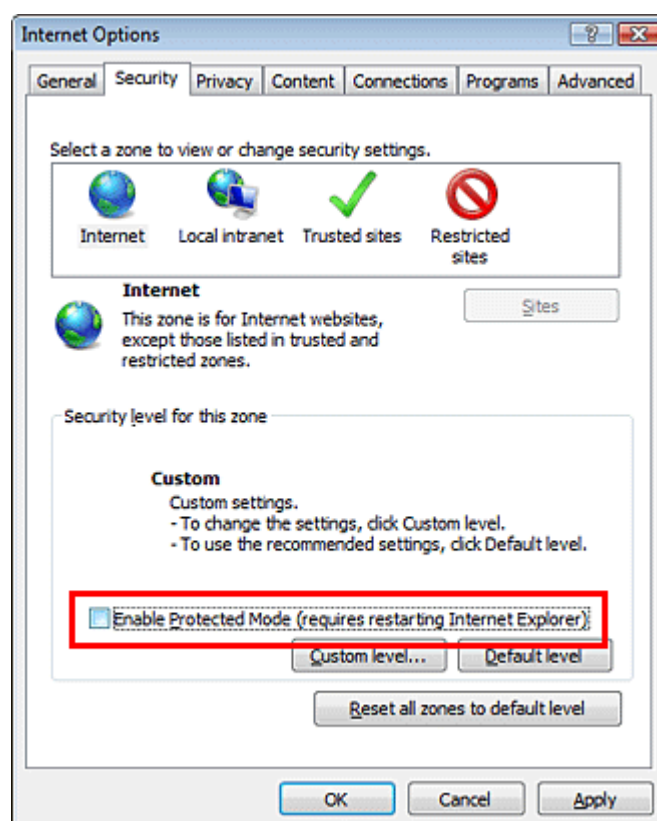
2. Internet Explorer setting
[Tools] - [Internet Options]



for Internet Explorer 7



for Windows Vista



Operating Environment

PC	: Pentium III or higher recommended
Monitor	: 1024 x 768 or higher resolution recommended
Mouse	: A mouse with wheel recommended
OS	: Microsoft Windows 2000 SP4 / XP / Vista
Browser	: Microsoft Internet Explorer 6.0 / 7.0
Drawing viewer	: Autodesk DWF Viewer 6.0 / 7.0

* Use the software following respective license terms and conditions.

Functions Provided on Each Drawing Page

Parts Information Reference Function

When the character string of a part on the drawing is clicked, its information is popped up at the location. You can get any parts information immediately on the screen without referring to the maintenance parts list.



Parts Search Function

You can search any part within the displayed drawing or within the whole schematic diagram/board view by specifying a location number. The pop-up window displayed by clicking a part 's character string allows to search the part within the applicable schematic diagram, board view or spare parts list.

A circle appears when the part is found, showing the part's location within the drawing.

Signal Line/Connector Destination Display Function

When a name at the end of a signal line in a divided schematic diagram is clicked, the destination of the signal is searched and the display changes to the destination. Connector destinations can also be searched in the same way.

When two or more search results are provided, their drawing names are displayed, allowing you to choose a desired drawing to display.

Layer Display Changing Function

When any of the color buttons on the toolbar is clicked, it can be selected to display desired layer in its color or not to display each layer. This allows you to see the pattern layer only by setting other layers to "non-display".

PC Board View Pattern Highlighting Function

When a pattern on a board view is clicked, it is highlighted in green. This allows easy pattern tracing.

Specified Area Printing Function

The Autodesk DWF Viewer enables to print the displayed drawing region as it is on a printer. It also allows to print a large-sized drawing in multiple pieces (tile printing).

Using with Network

PRECAUTION

To use ZEUS Service Manual Ver.2 with network, the file-path names written on the source files of each

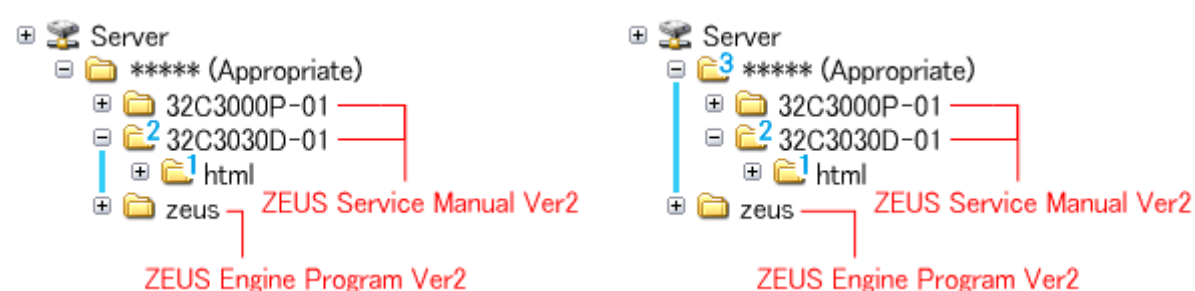
ZEUS Engine Program Ver.2 and ZEUS Service Manual Ver.2 are to be modified.
Perform the procedure described below.

Preparation

1. Run the program file zuesFPch.exe to install the program file for File-Path to the Local PC.

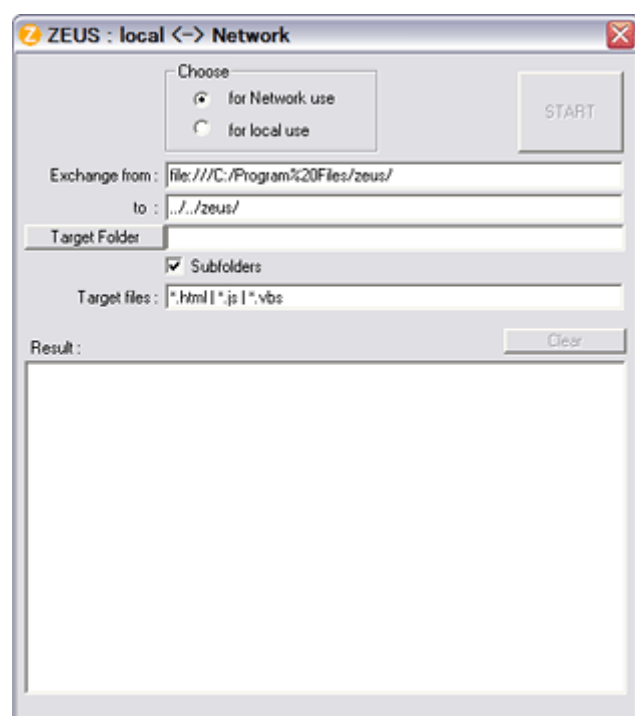
-> [Download zeusFPch_setup.zip \(2.3MB\)](#)
2. Run the program file ZeusSetup_v2.0.exe to install the ZEUS Engine Program in C:\Program Files\zeus of the local PC. This can be done by running the installer program provided.
3. Create the appropriate folder where the ZEUS Engine Program Ver.2 and the ZEUS Service Manual Ver.2 to be stored in the server.
4. Move the ZEUS Engine Program of step 2 to the folder created at step 3 in the Server.
5. Detach the ZEUS Service Manual Ver.2 to the folder created at step 3 in the Server.
6. Unzip the ZEUS Service Manual Ver.2 within the folder in the Server.

Example of folder



Procedure of File-Path

The zeusFPch is the exclusive program to exchange the file-path names written in both source files of ZEUS Manual and ZEUS Engine program into those applicable to the network use.



1. Whenever changing the file-path of both ZEUS Engine Program and ZEUS Service Manual to use with network, pay the attention to set the "Exchange to" column that should have a proper relation between ZEUS Engine Program and ZEUS Service Manual with referring the following.

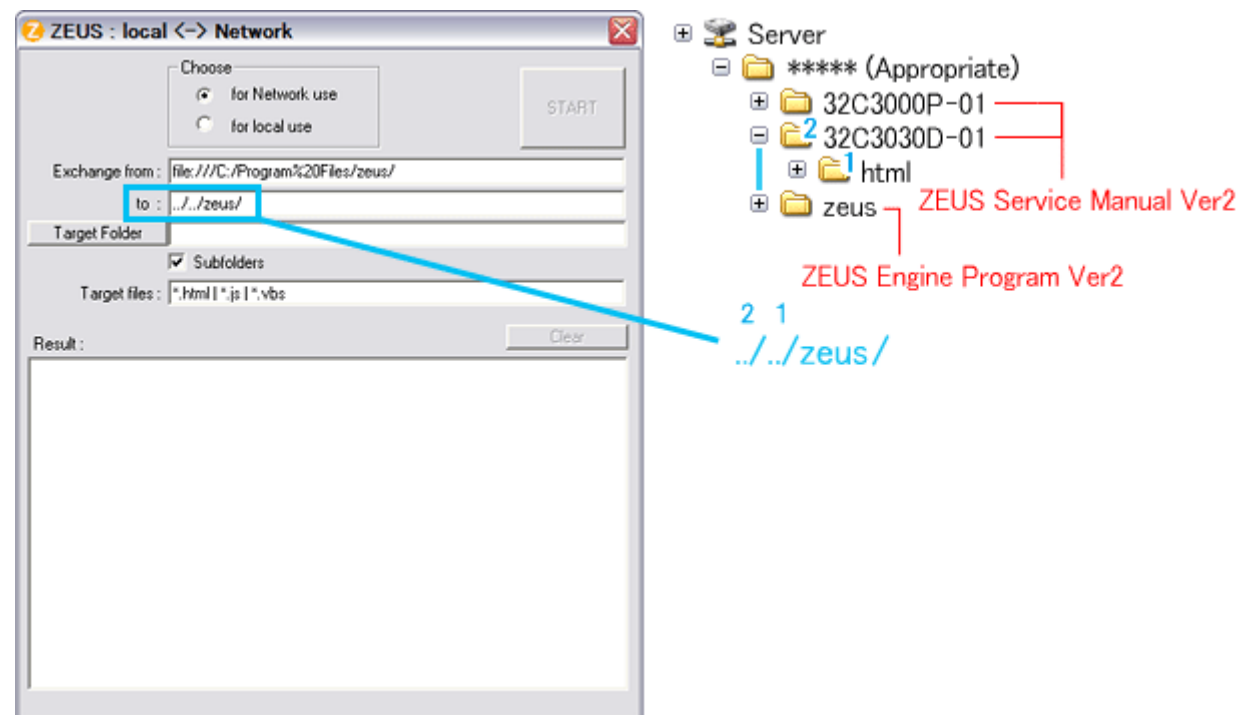
Run the zeusFPch and set "Exchange to" by referring to the examples below.

Example 1 :

In the "Exchange to" column shows the relation between ZEUS Service Manual and ZEUS Engine Program.

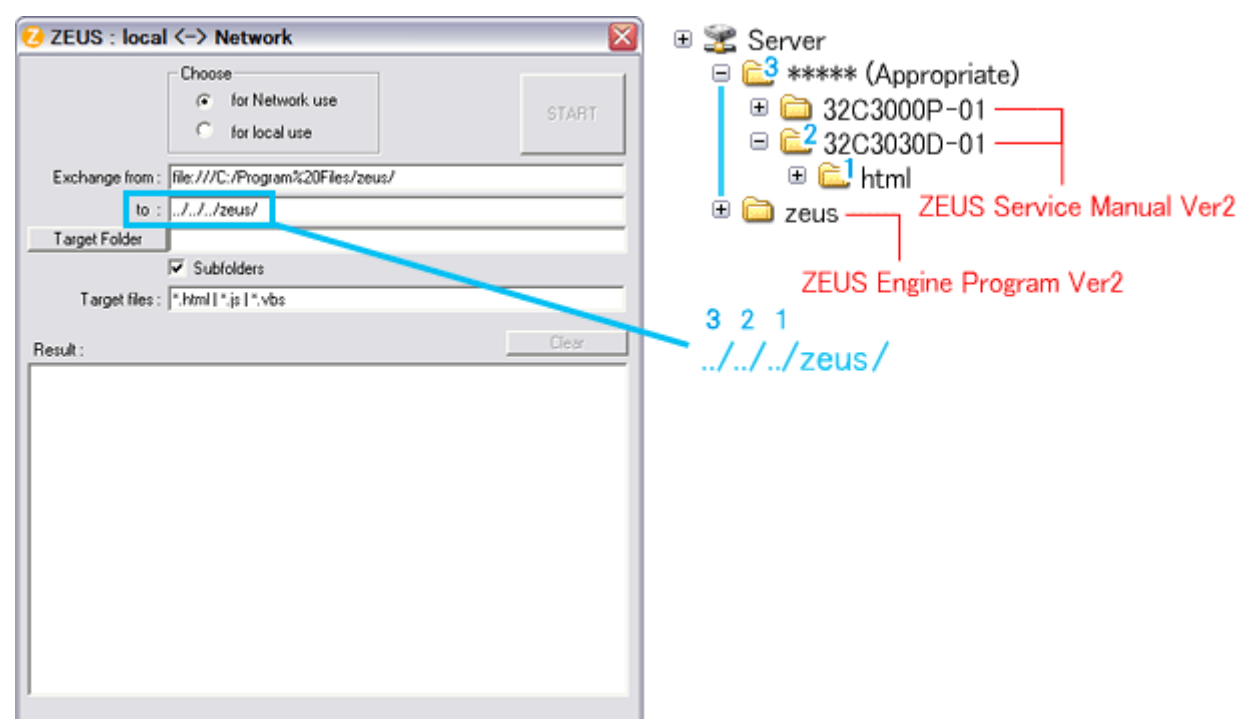
../ counts the relation between.

Thus in this case, it must be **../..zeus/** (2 counts).

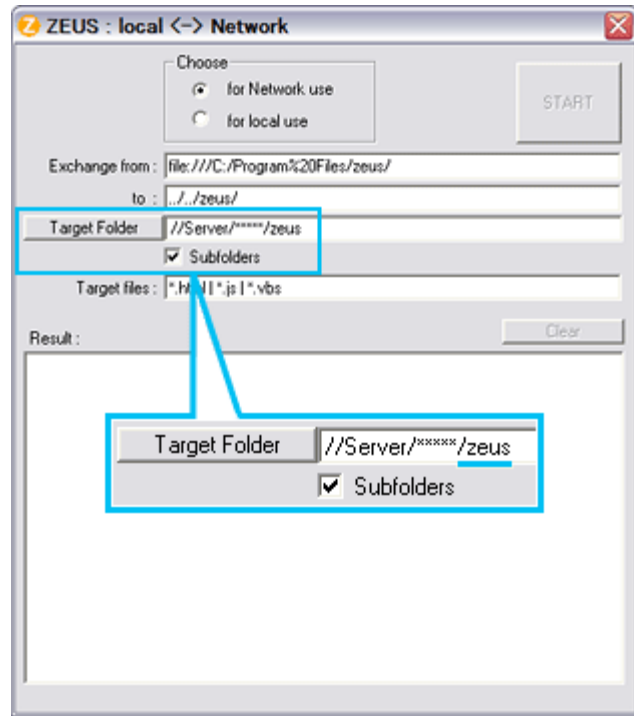


Example 2 :

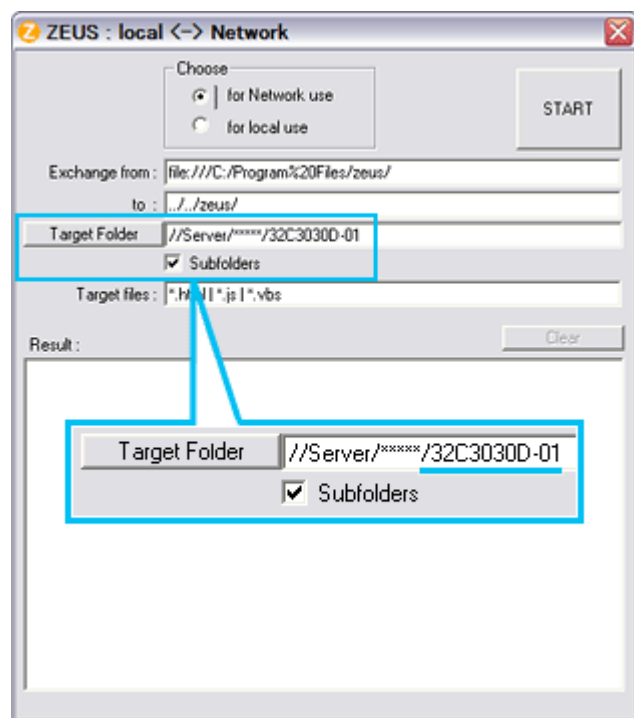
In this case, it must be **../..../zeus/** (3 counts).



2. Run the zeusFPch to change the path in the ZEUS Engine Program Ver.2.
3. Set ZEUS Engine Program in the created folder in the server to the "Target Folder", and then press "START".
(This procedure is one time only)



4. Run the ZeusFPch to change the path in the ZEUS Service Manual Ver2.
5. Set unzipped ZEUS Service Manual in the created folder in the server to the "Target Folder", and then press "START".
(This procedure is required whenever placing service manual.)



Confirmation

Confirm that service manual on the server can be operated normally by client PC.

Note:

In case of accessing the ZEUS Manual through WEB site, the small pop-up window appears at the left bottom corner on the screen whenever searching the location links. This is not malfunction.

IMPORTANT NOTICE

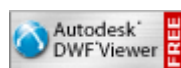
A Known Malfunction

Autodesk® DWF™ Viewer version (Free software provided through WEB)

Use Autodesk DWF Viewer ver. 6.0.

Through WEB, ver. 6.5 has been released but with it, the linking function in this manual may not work properly.

If ver. 6.5 has been installed, uninstall it and reinstall ver. 6.0.



To get ver. 6.0, click the icon, or contact to the nearest Toshiba Service Centre for further assistance.

Freezing windows opened (Cannot close the open windows)

This may happen occasionally.

In case of encountering this, follow the procedure below.

1. Press [Ctrl], [Alt] and [Delete] keys at the same time to engage windows security windows.
2. Then, choose TASK manager and Application tab, and select TOSHIBA SERVICE MANUAL-Microsoft Internet Explorer. 
3. Click TASK-end.

Main Window back forwarded

The real cause has not been found yet but with this condition, nothing disturbs the service manual operation.

Continue to use by operating the windows.

Precaution when opening the diagrams

While opening the diagrams, the menu in the left frame changes its color to GRAY. This is an indication that the viewer is processing.

With this condition, the menu indication color may stick to the GRAY color or Windows may freeze if clicking other menu.

To avoid such things, do not operate any others while menu turns GRAY color.

If entering this, re-open the service manual or refresh the left frame.

GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86°F to 104°F (30°C to 40°C). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

SAFETY INSTRUCTION

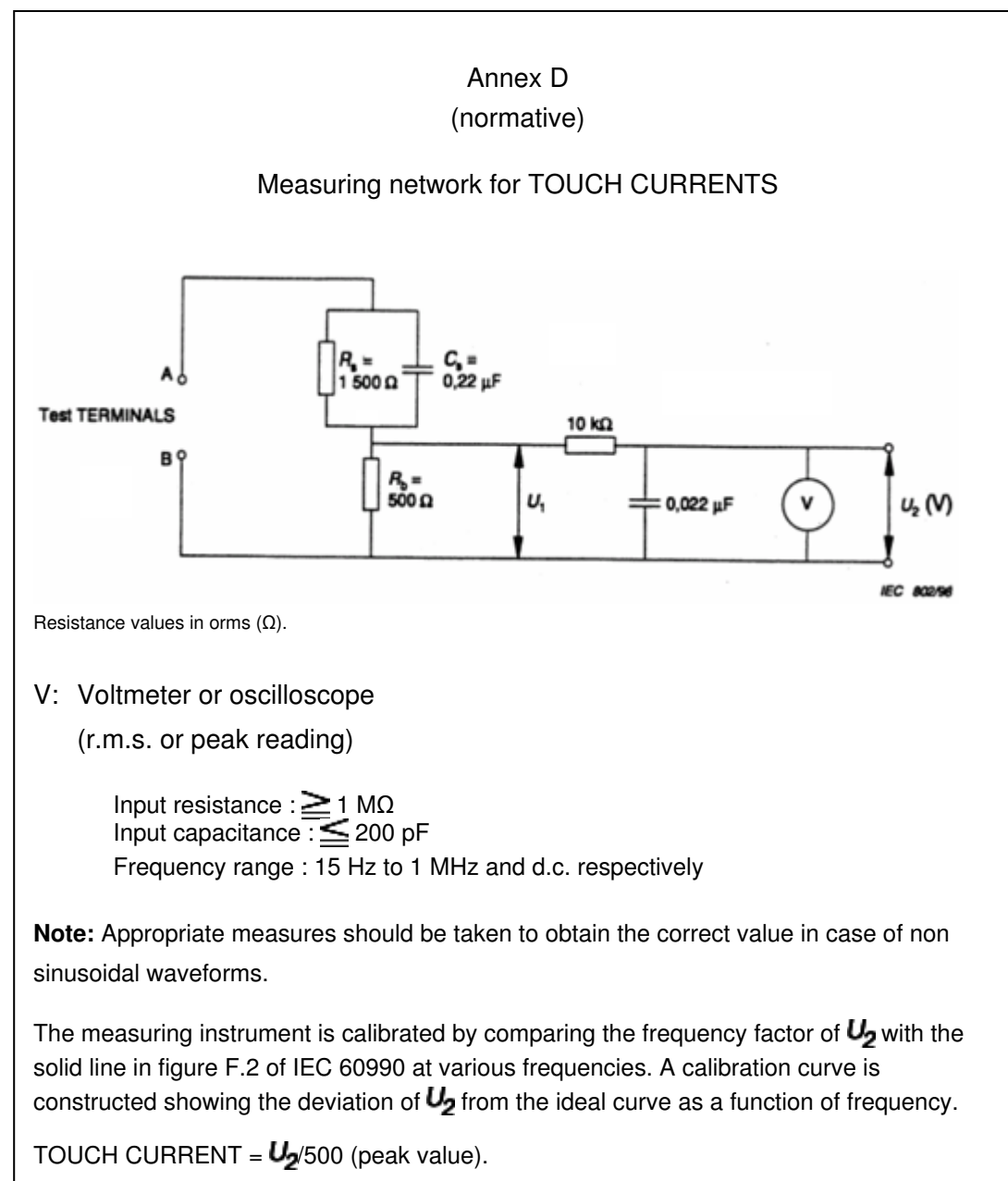
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.
4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.
5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.
7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.
8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)
 - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.
 - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.



- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

- a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
- b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2 , does not exceed the following values:

- for a.c. : $U_1 = 35 \text{ V}$ (peak) and $U_2 = 0.35 \text{ V}$ (peak);
- for d.c. : $U_1 = 1.0 \text{ V}$

Note: The limit values of $U_2 = 0.35 \text{ V}$ (peak) for a.c. and $U_1 = 1.0 \text{ V}$ for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related

characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.

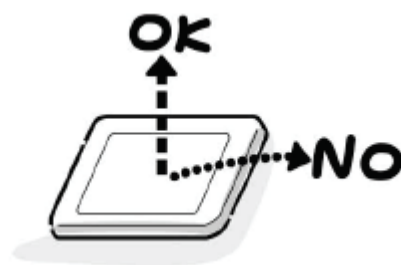
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.



3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
If the panel surface is extremely soiled, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



4. Leaving water or other fluids on the panel screen for an extended period of time can

result in discoloration or stripes. Immediately remove any type of fluid from the screen.



5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.



6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



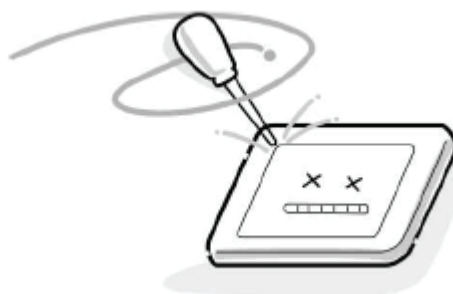
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.



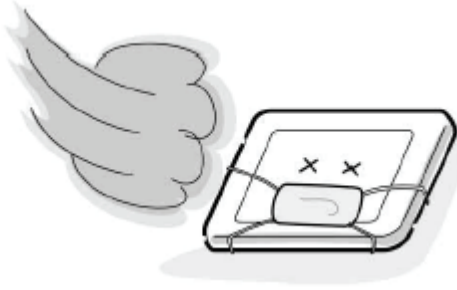
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

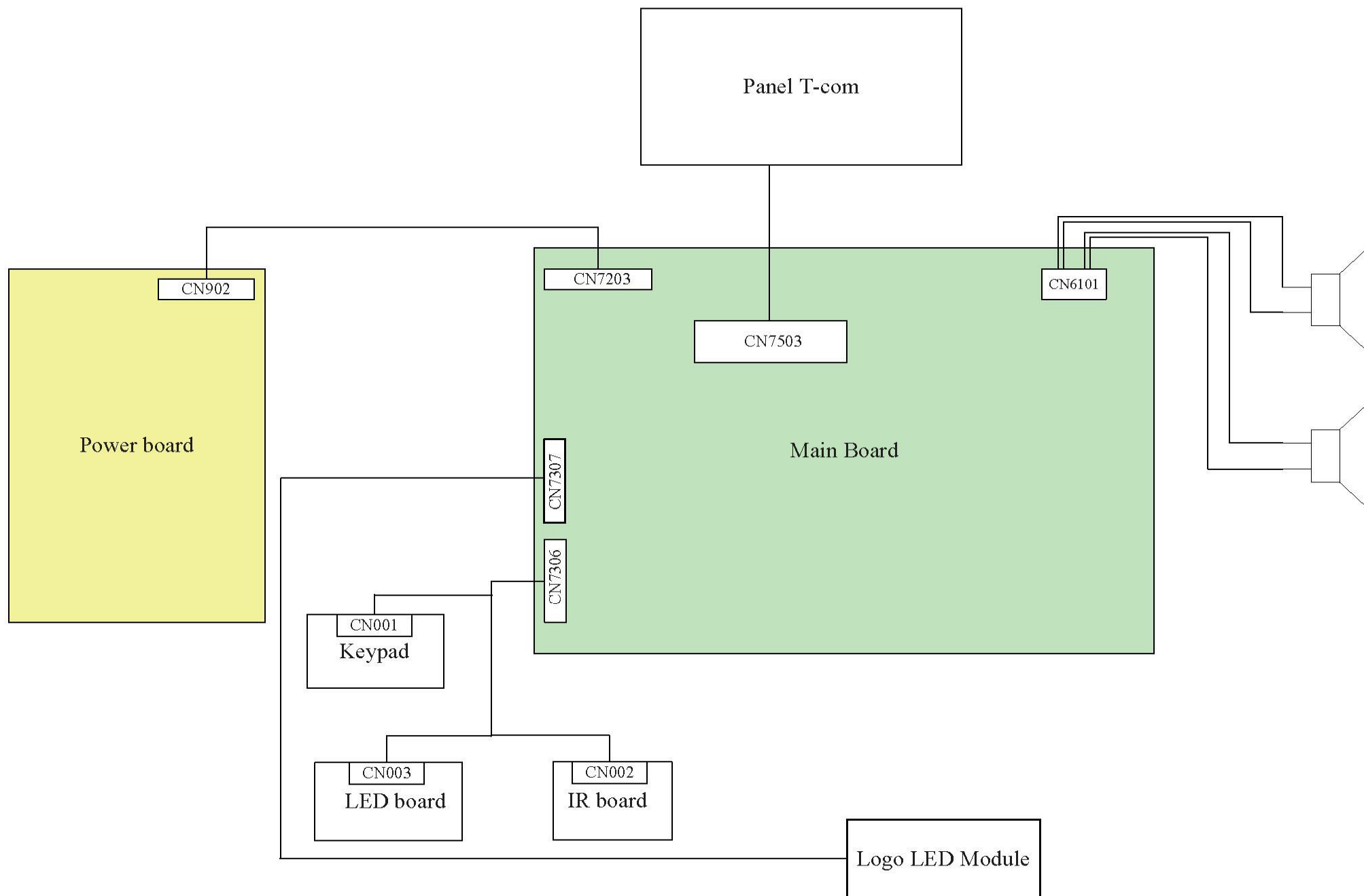


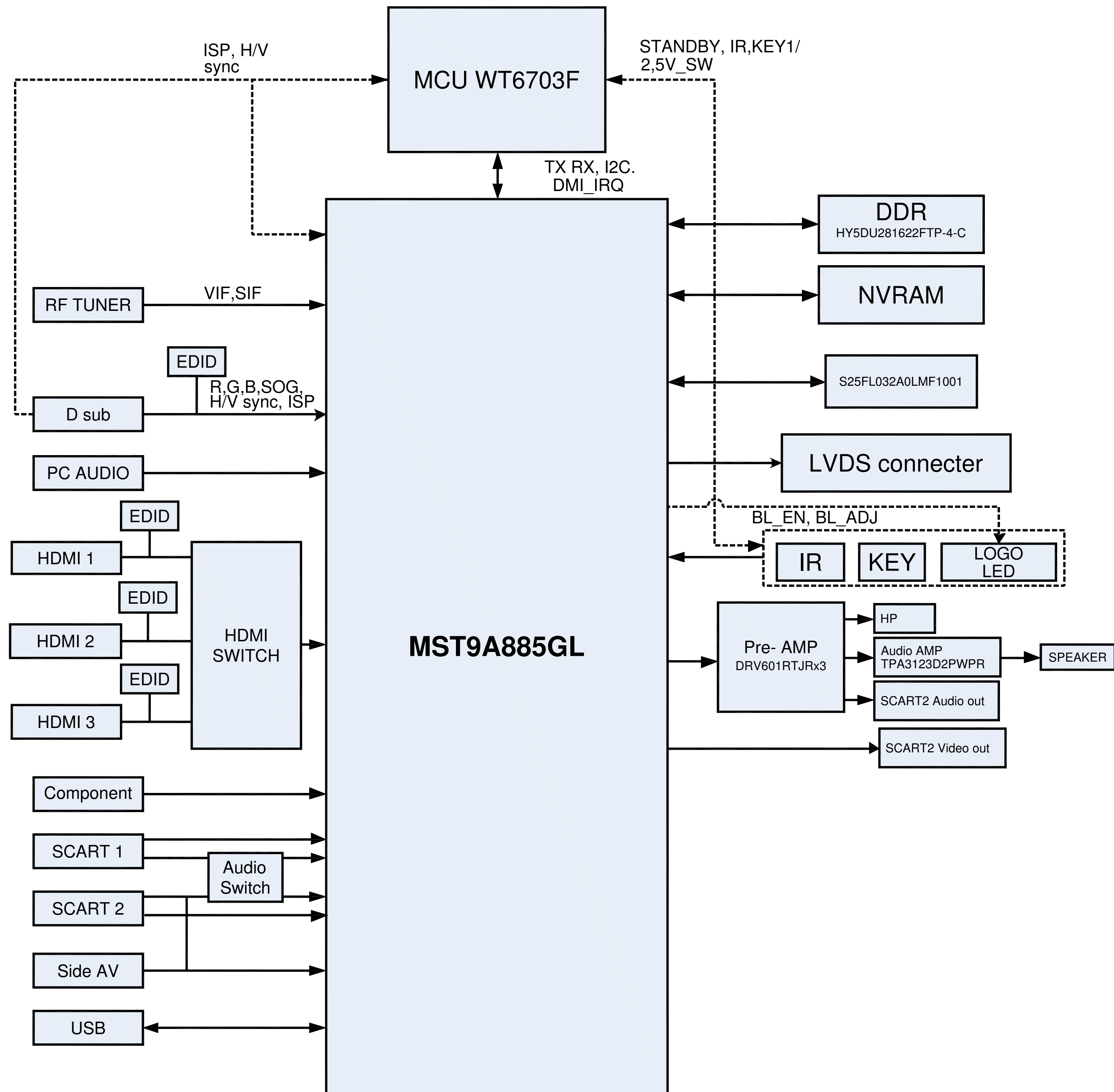
9. Do not disassemble the LCD module. Such actions could result in improper operation.

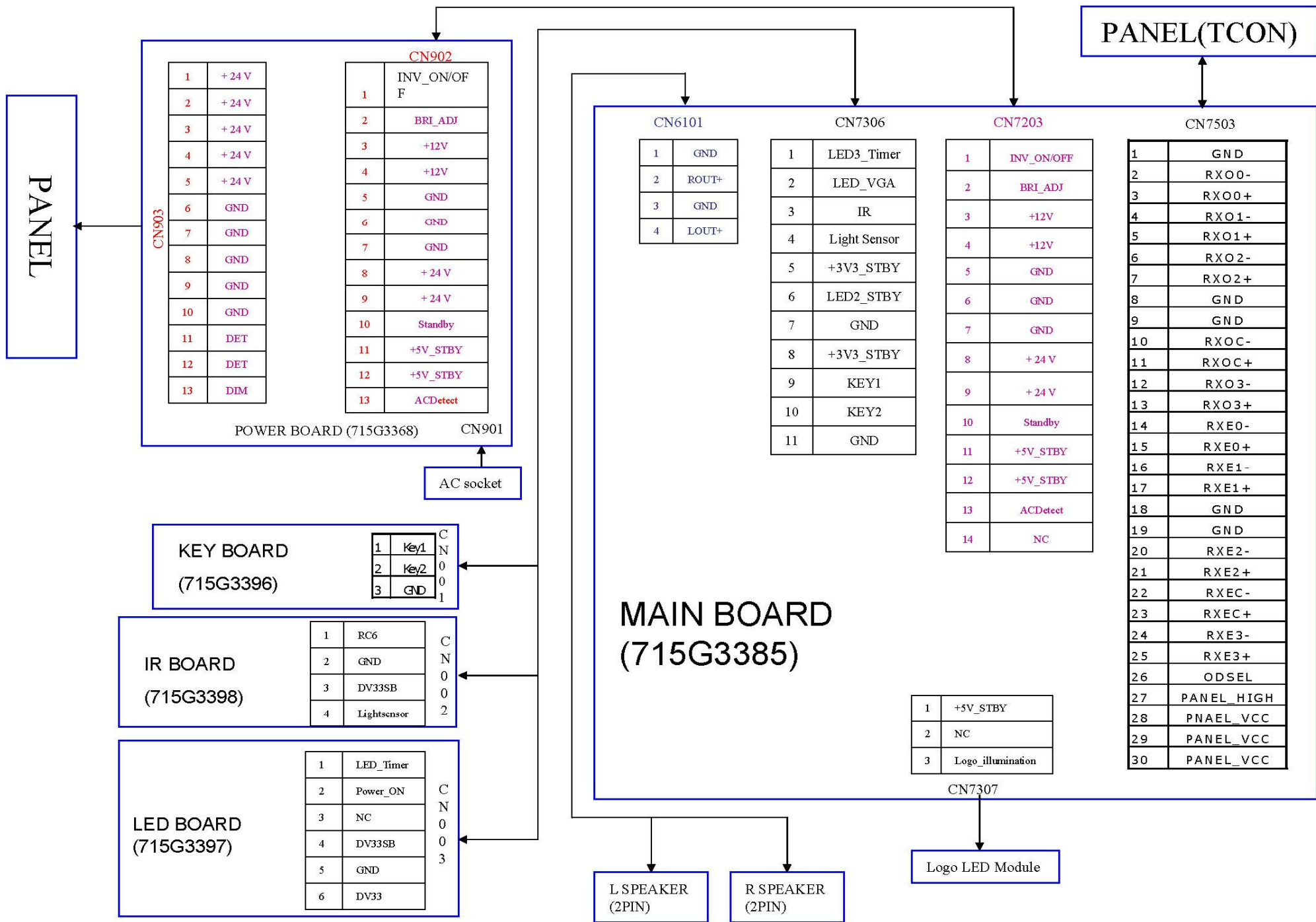


10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.









SCHEMATIC DIAGRAM

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

1. RESISTOR

Resistance is shown in ohm [K=1,000, M=1,000,000]. All resistors are 1/6 W and 5 % tolerance carbon resistor, unless otherwise noted as the following marks.

1/2R : Metal or Metal oxide of 1/2 watt

1/2S : Carbon composition of 1/2 watt

1RF : Fuse resistor of 1 watt

10 W : Cement of 10 watt

K : $\pm 10\%$

G : $\pm 2\%$

F : $\pm 1\%$

2. CAPACITOR

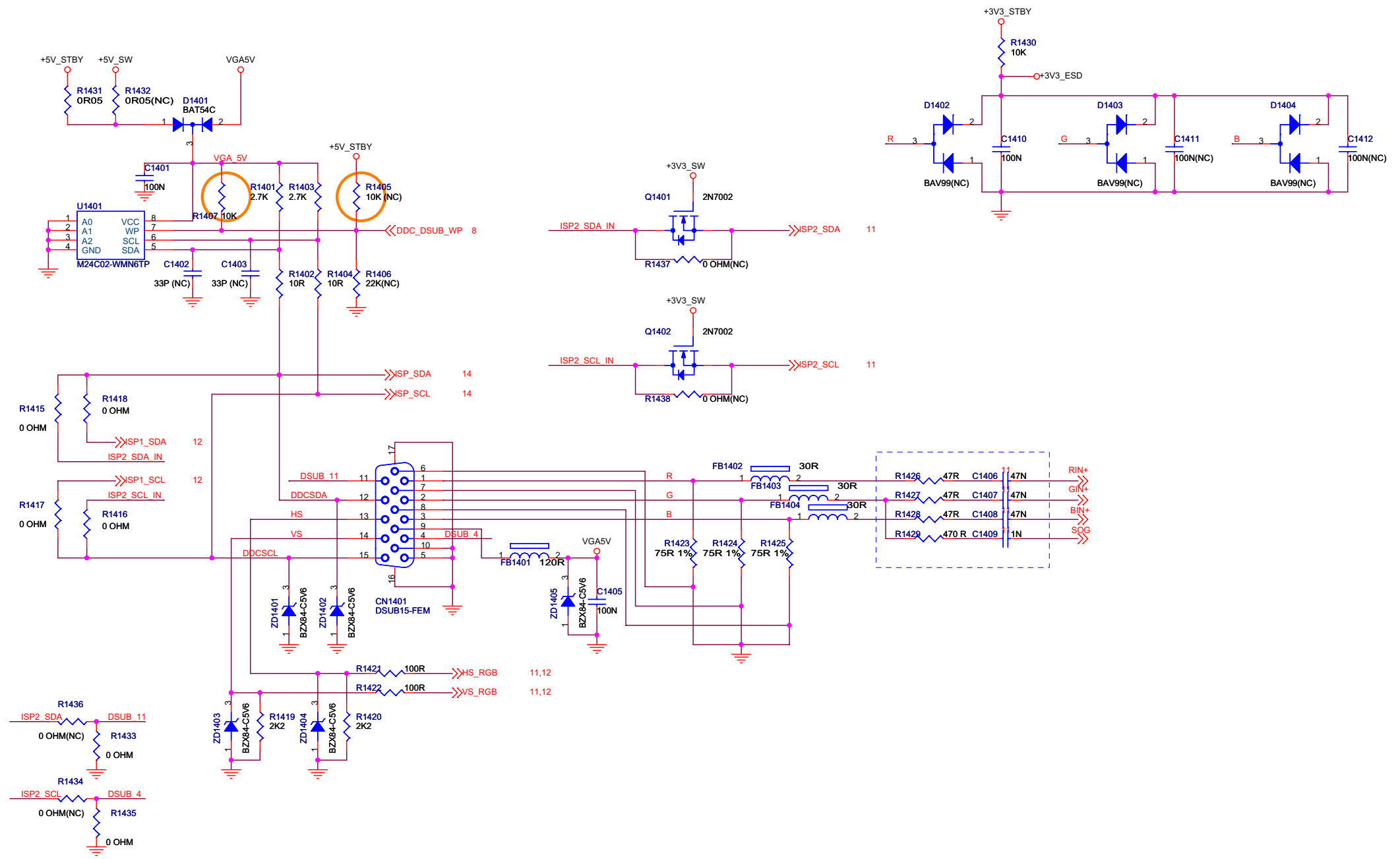
Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF , and the values more than 1 in pF.

All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

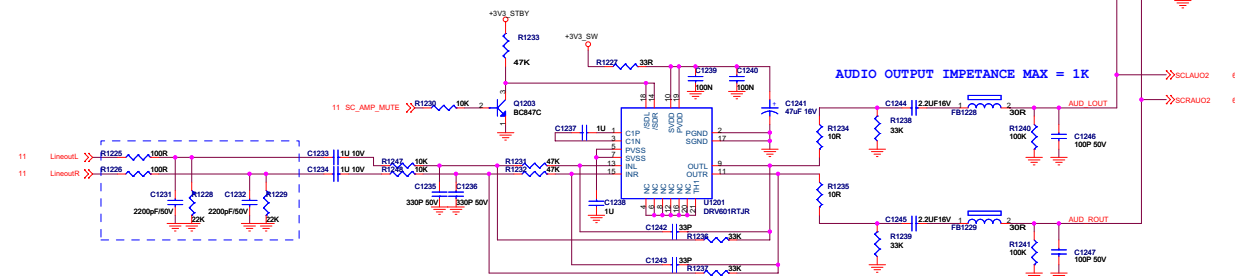
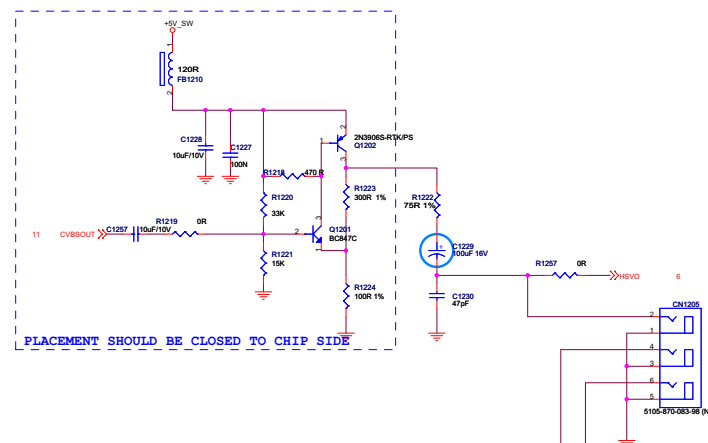
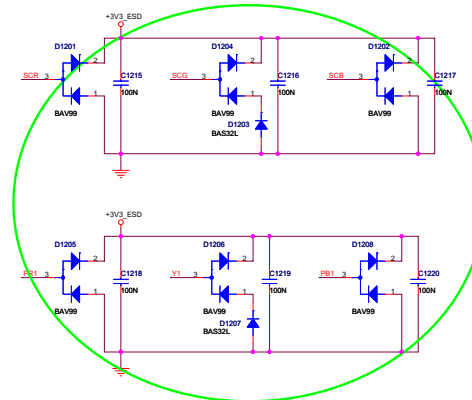
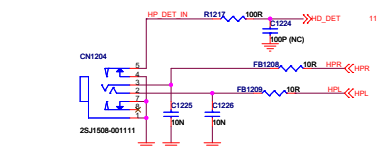
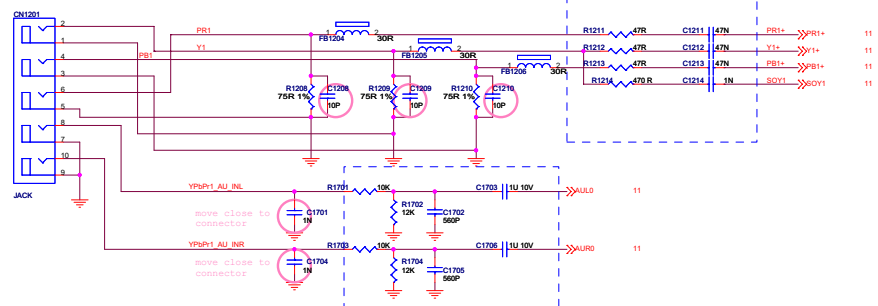
 = Electrolytic capacitor

 = Mylar capacitor

- The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
- Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.
- Waveforms are taken receiving color bar signal with enough sensitivity.
- Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

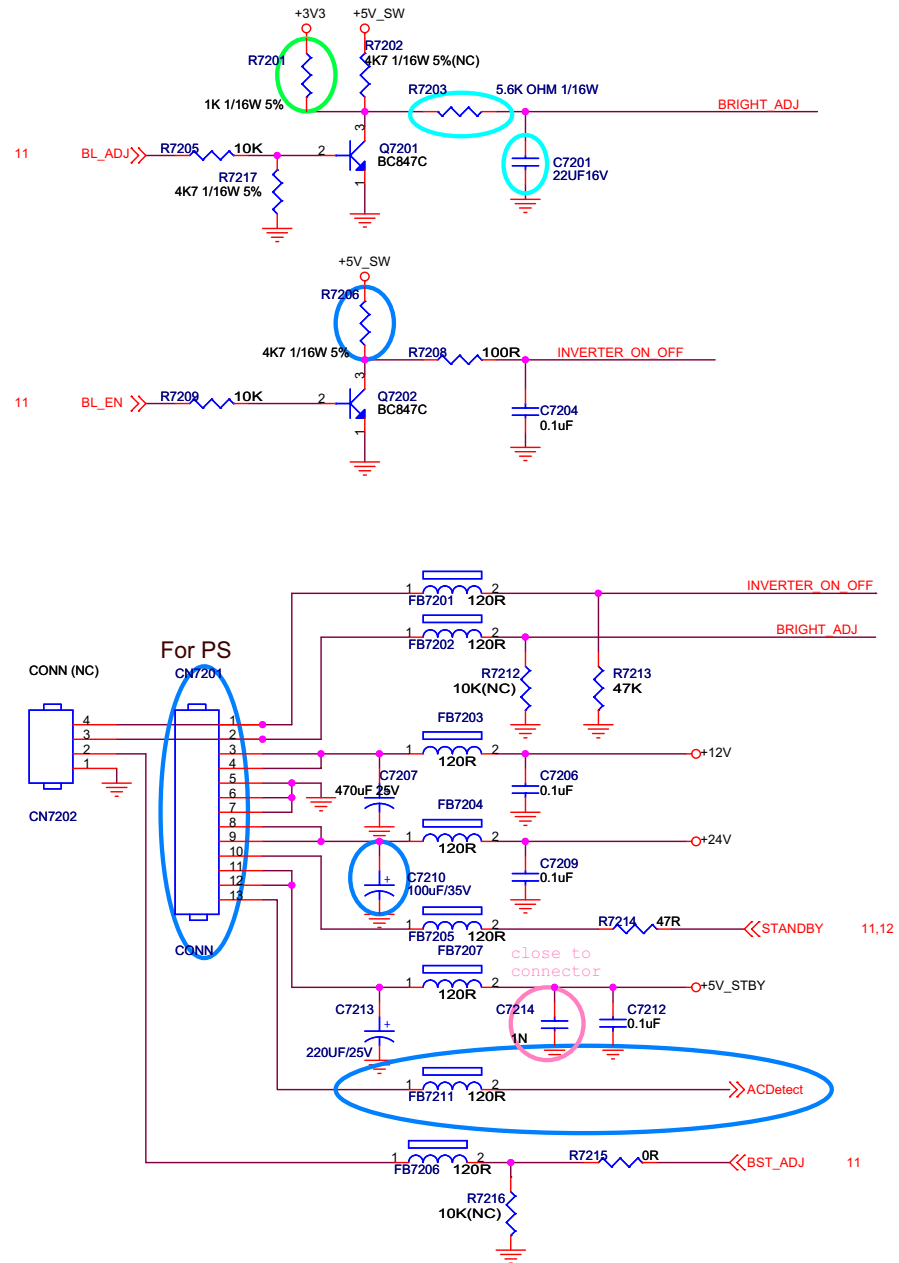


MAIN D-SUB INPUT

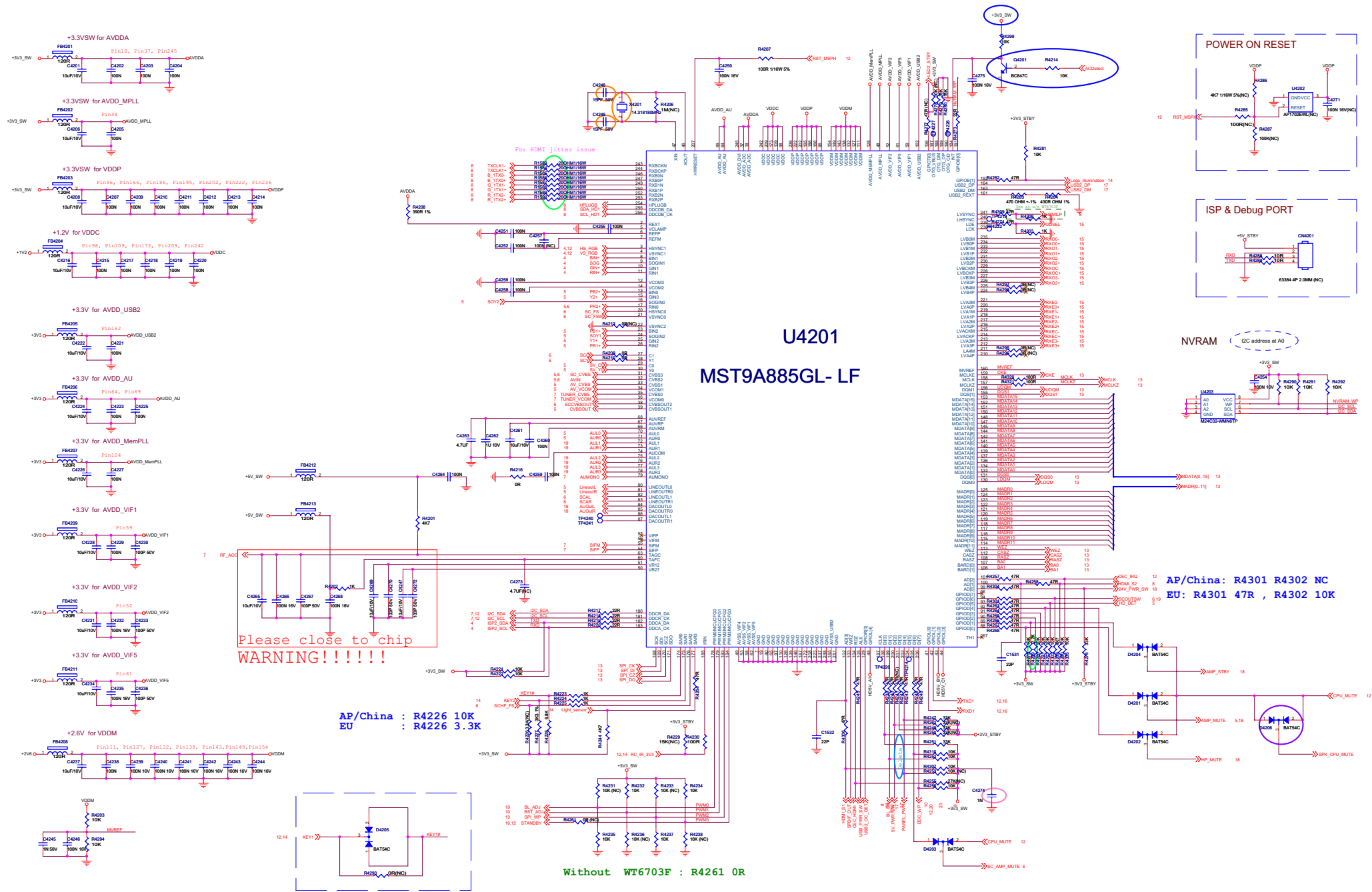


MAIN VIDEO INPUT AND CVBS OUTPUT

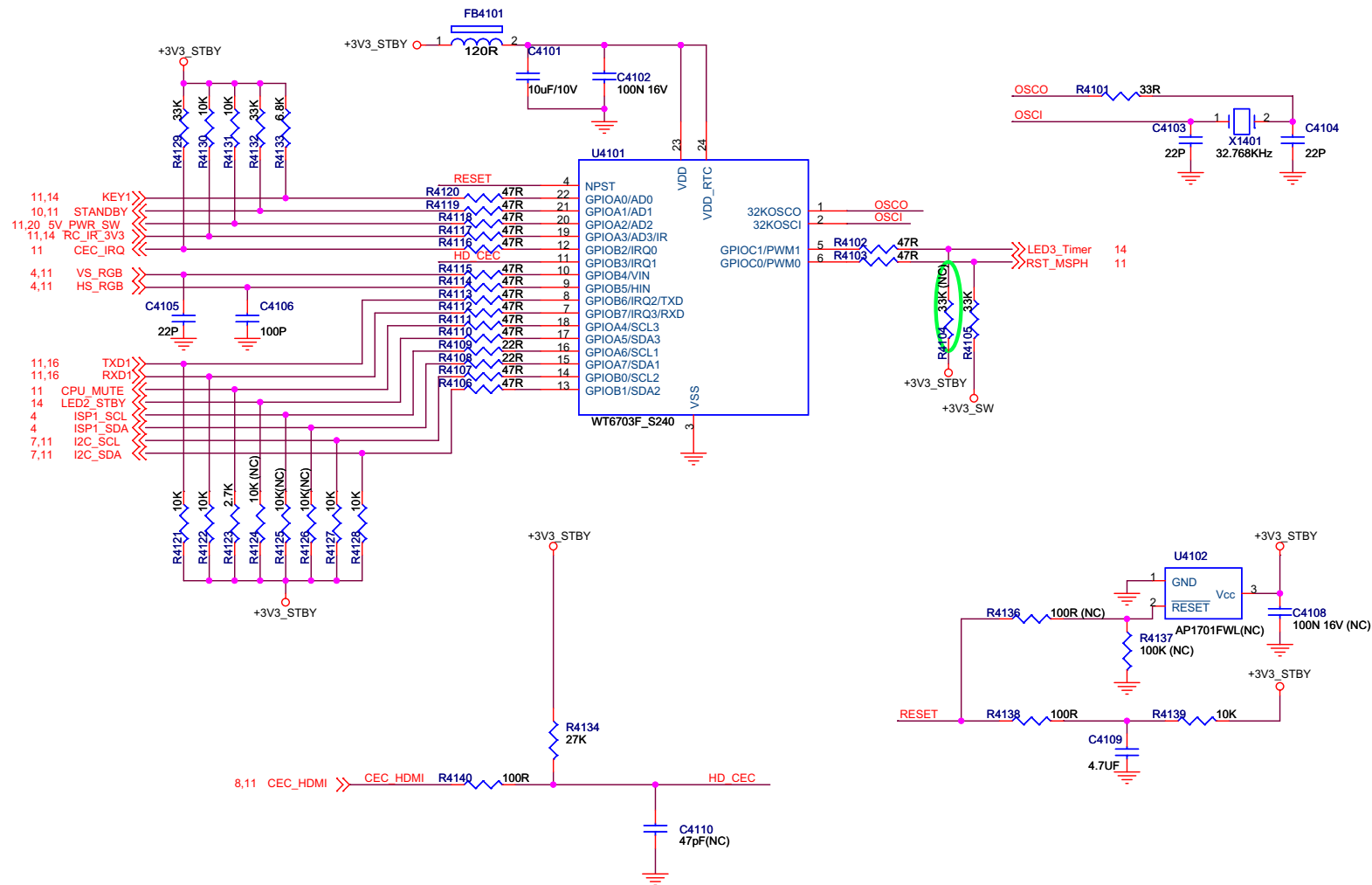




MAIN LIPS & INVERTER I/F

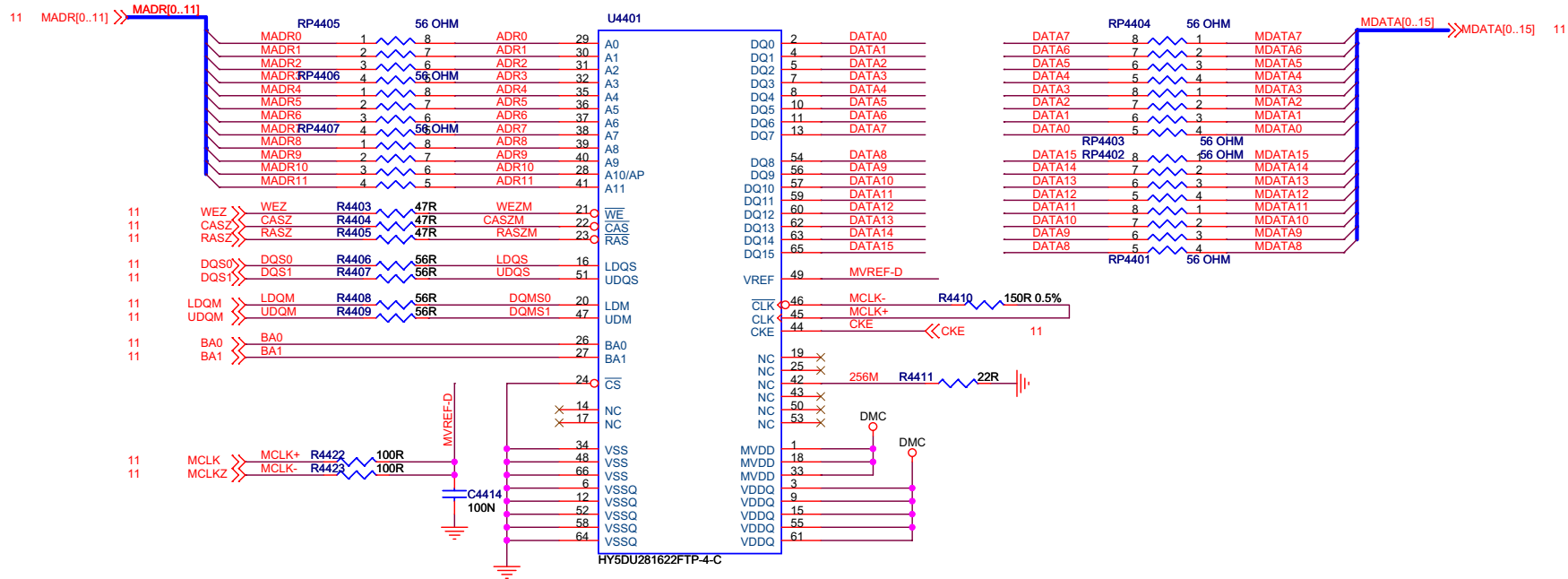
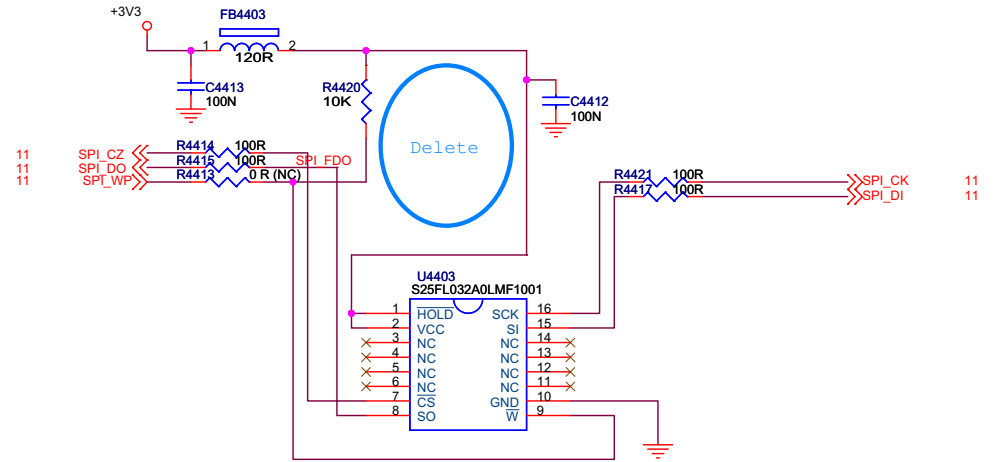
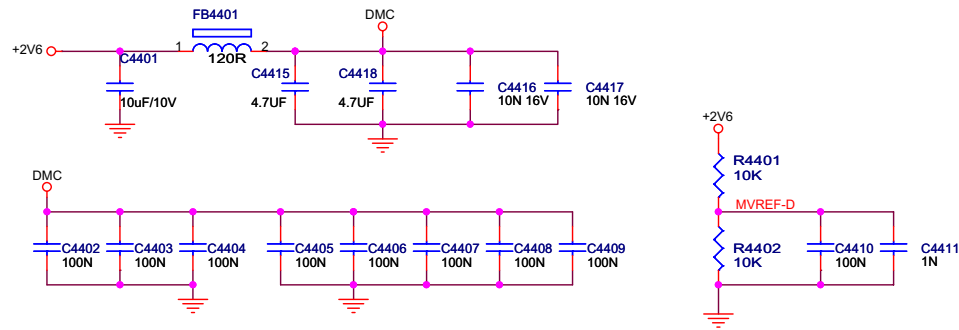


MAIN SCALER MST6B885GL-1



MAIN WT6703F (STANDBY MCU)

Add By Jack to reduce ripple voltage



DDR 2M x 16bit x 4BK

MAIN FLASH ROM and MEMORY

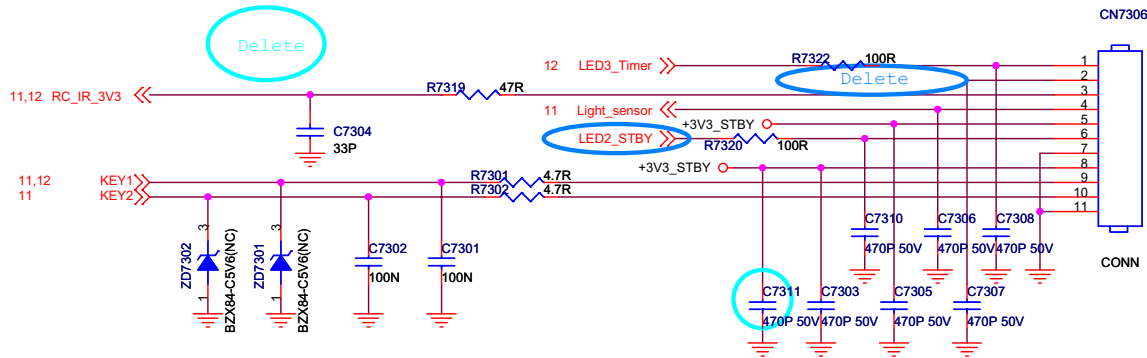
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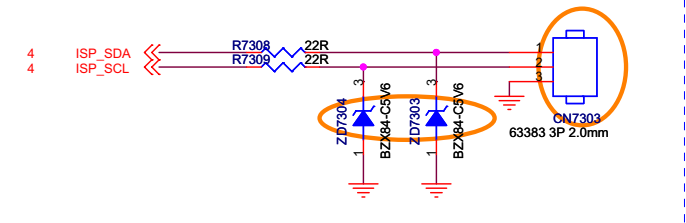
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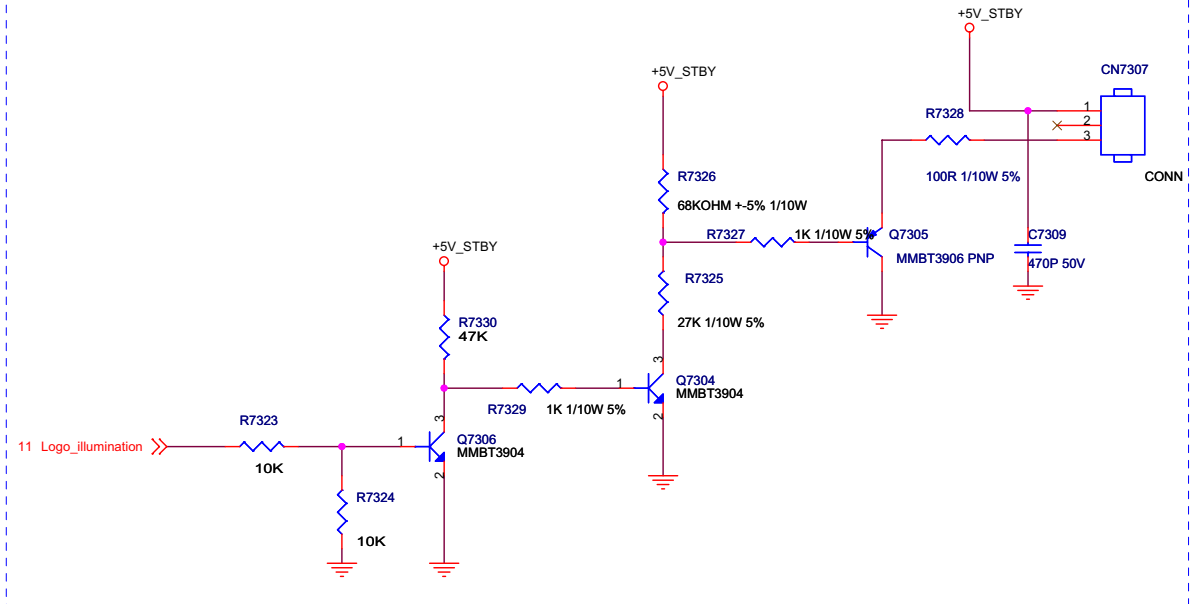
For IR / Key / LED BOARD



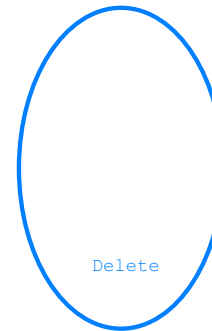
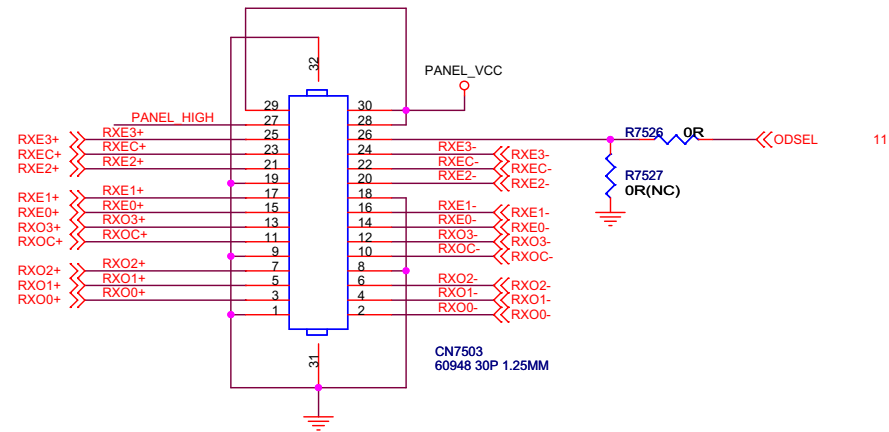
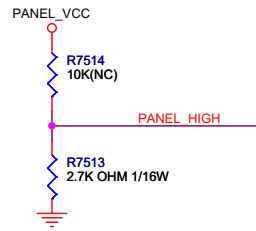
For Compair I/F



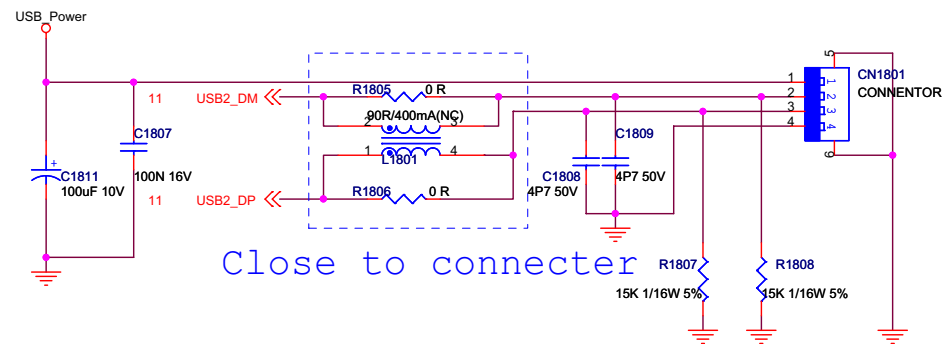
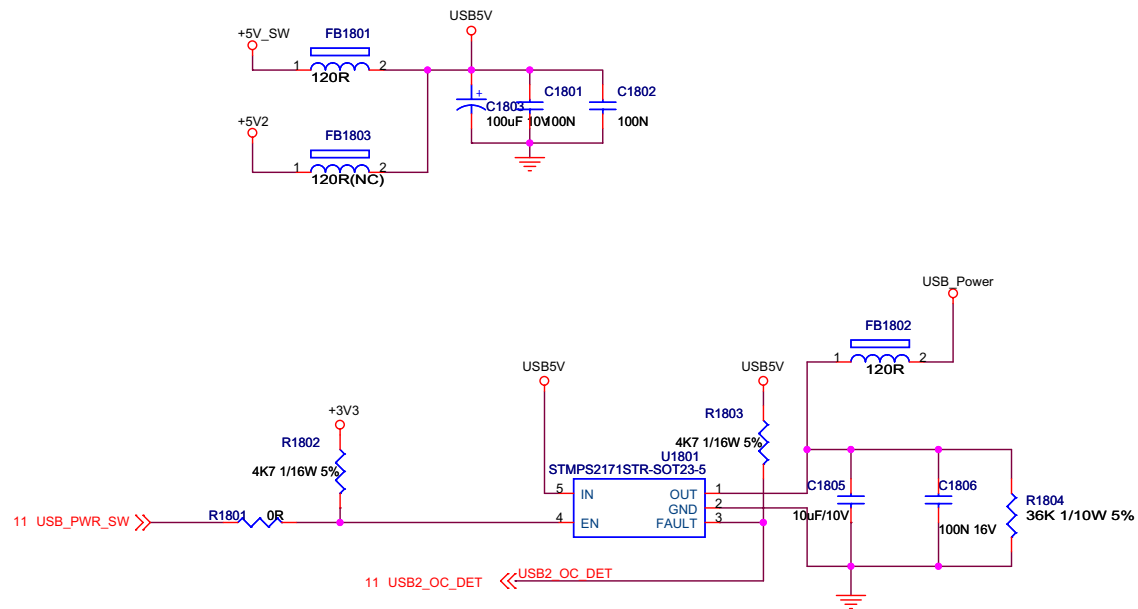
For Illumination



MAIN KEY, IR BD & Compair I/F

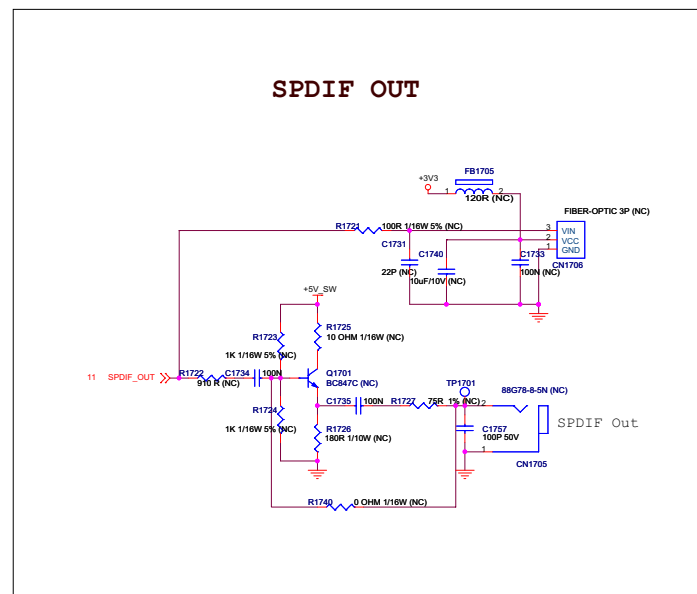
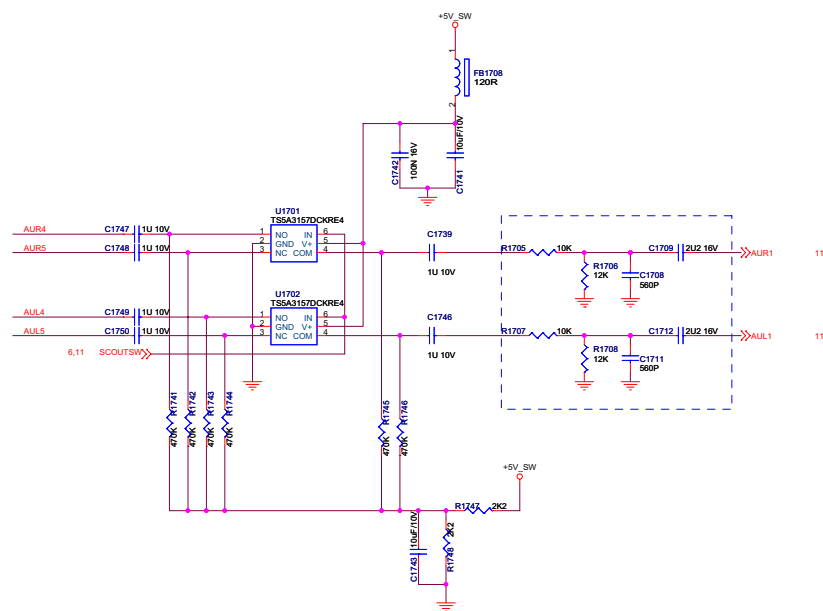
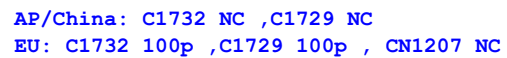
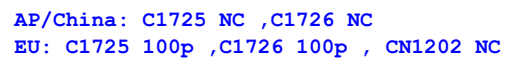


MAIN PANEL I/F



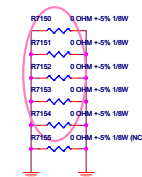
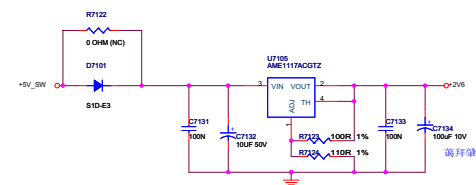
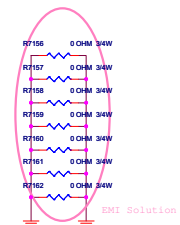
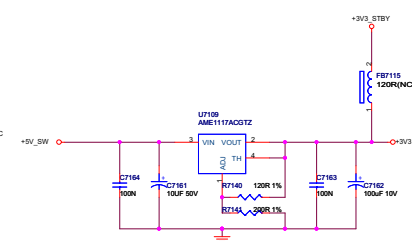
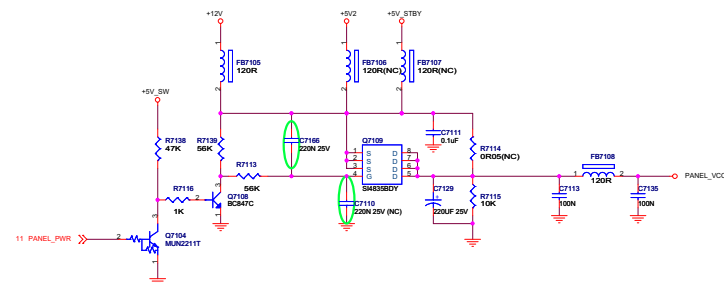
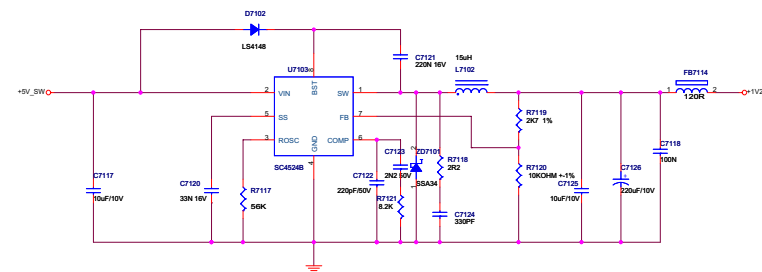
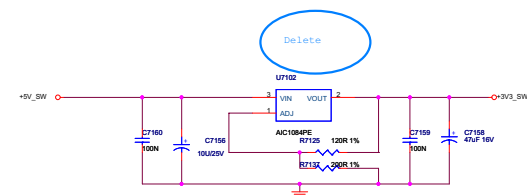
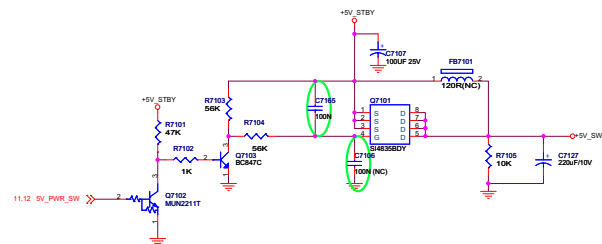
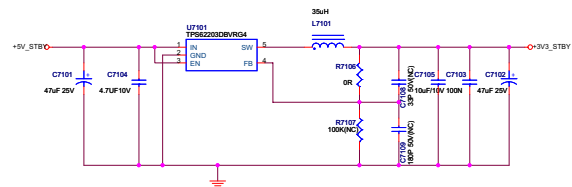
MAIN USB





MAIN AUDIO I/F AND SPIDF OUT

IF use TPS6220 ADJ, then R7106:560K R7107:100K C7108:33p C7109:180p



MAIN DC-DC POWER

CN001

CONN

C024
NC/100N 50V

C023
NC/100N 50V

Key1

key2

CH+

2.44V

SW001

2 1

5 4

3

SW

C016

NC/100N 50V

R020

11KOHM1/10W

CH-

1.73V

SW002

2 1

5 4

3

SW

C017

NC/100N 50V

R021

4.3KOHM +-1% 1/10W

POWER

1.04V

SW003

2 1

5 4

3

SW

C018

NC/100N 50V

R022

1.8K OHM 1% 1/10W

SOURCE

2.44V

SW004

2 1

5 4

3

SW

C019

NC/100N 50V

R016

11KOHM1/10W

MENU

1.73V

SW005

2 1

5 4

3

SW

C020

NC/100N 50V

R017

4.3KOHM +-1% 1/10W

VOL-

1.04V

SW006

2 1

5 4

3

SW

C021

NC/100N 50V

R018

1.8K OHM 1% 1/10W

VOL+

0.35V

SW007

2 1

5 4

3

SW

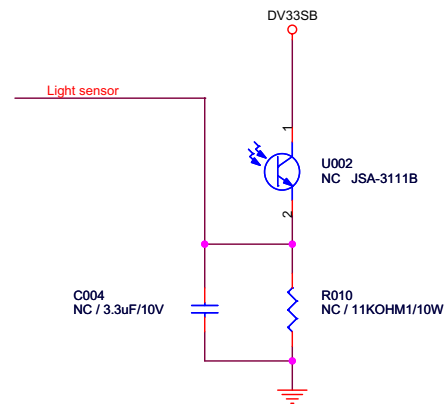
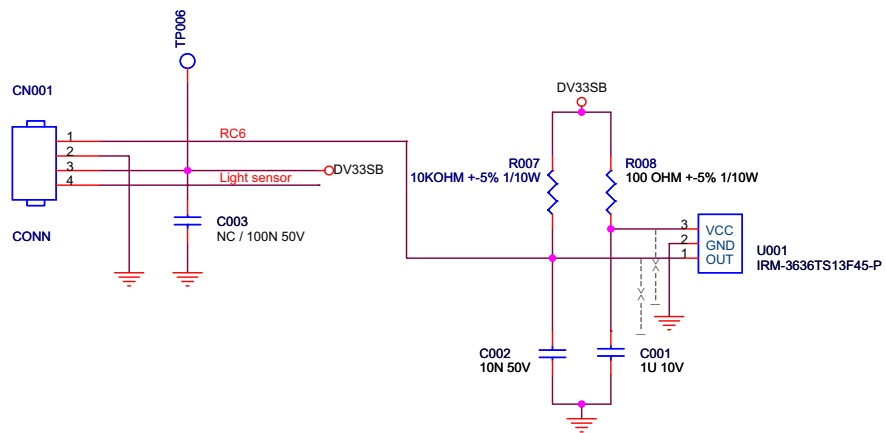
C022

NC/100N 50V

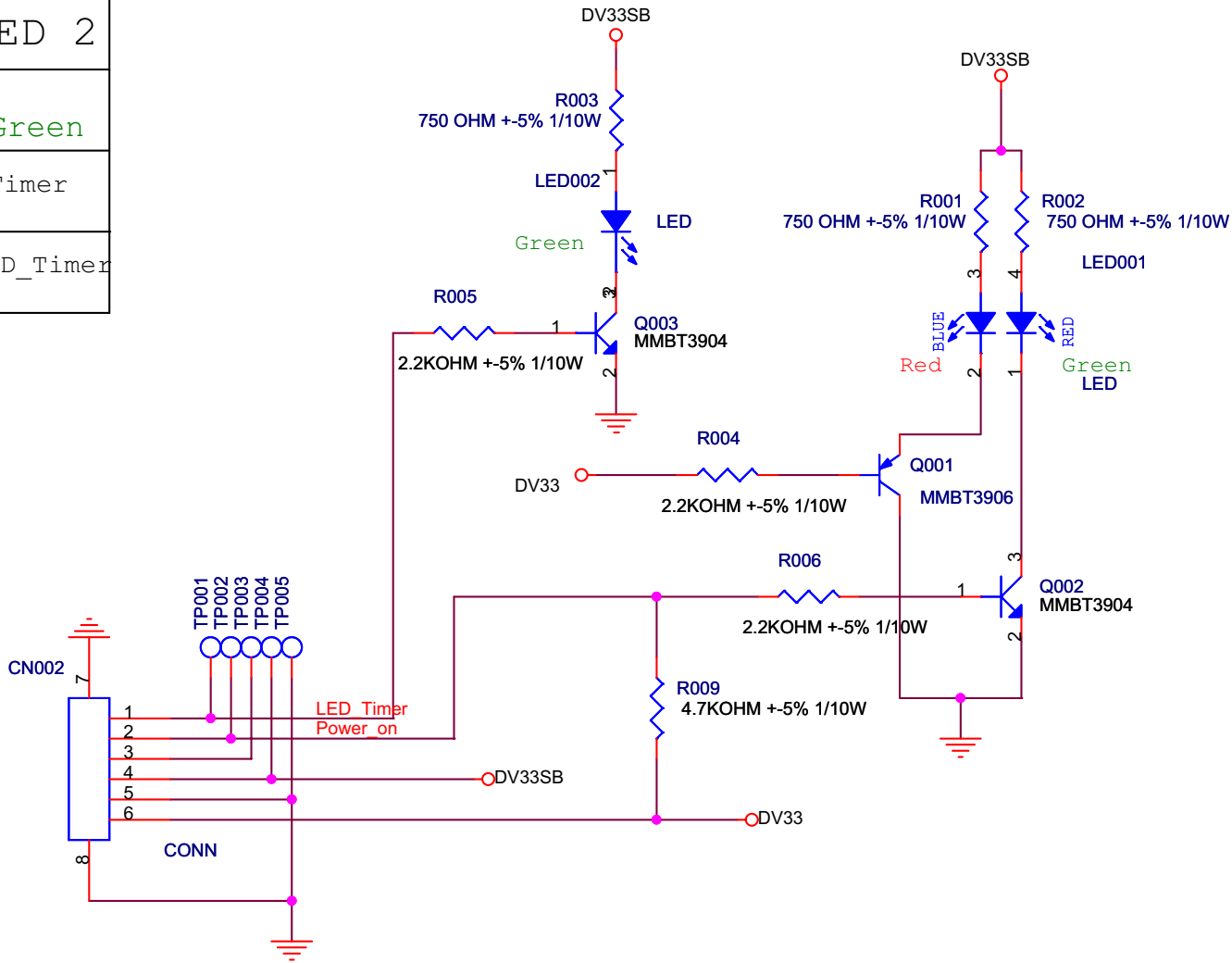
R019

470 OHM +-1% 1/10W

KEY

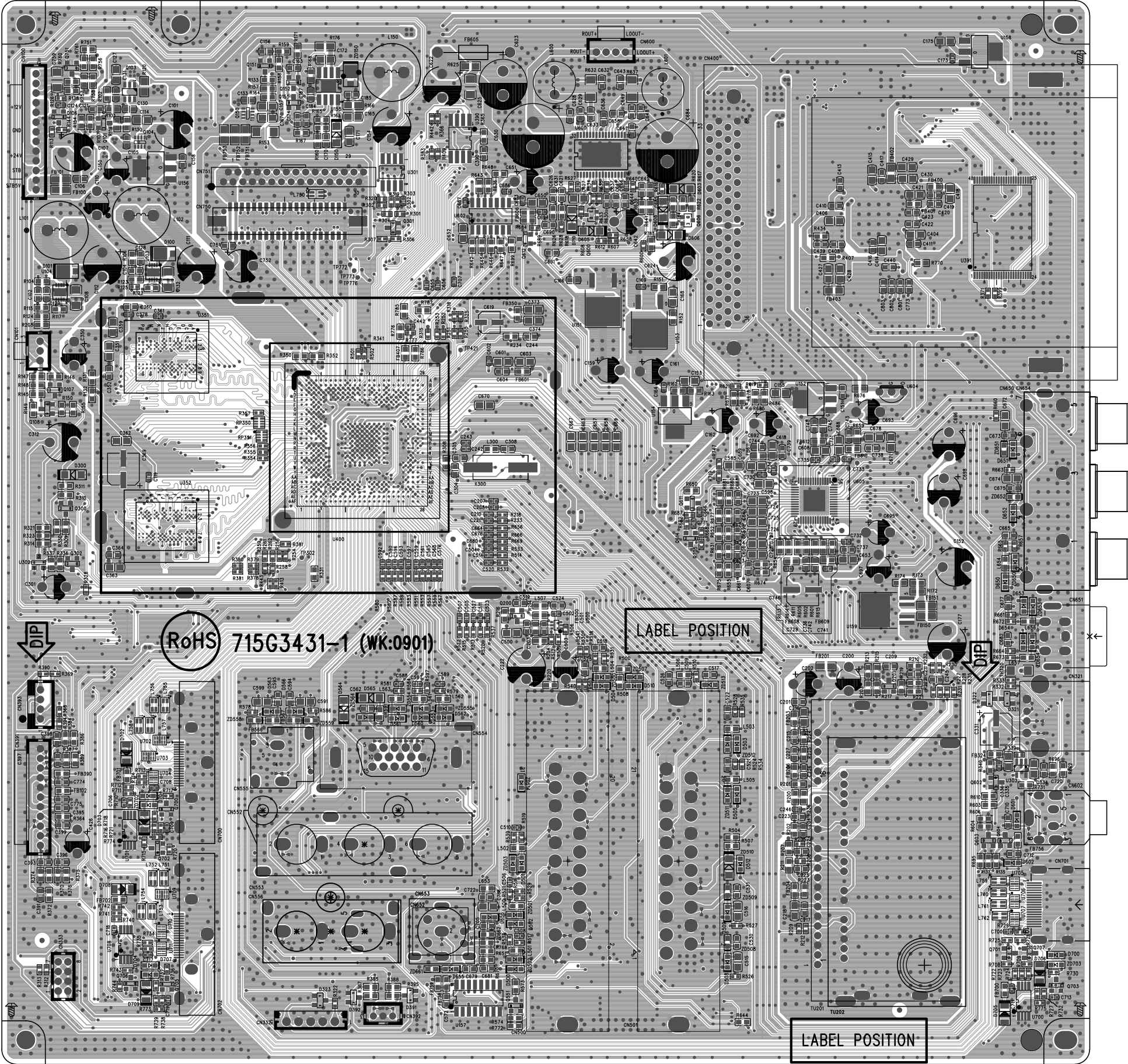


	LED 1		LED 2
	Red	Green	Green
Function	Standby	Power on	Timer
Control method	HW	Power_on	LED_Timer

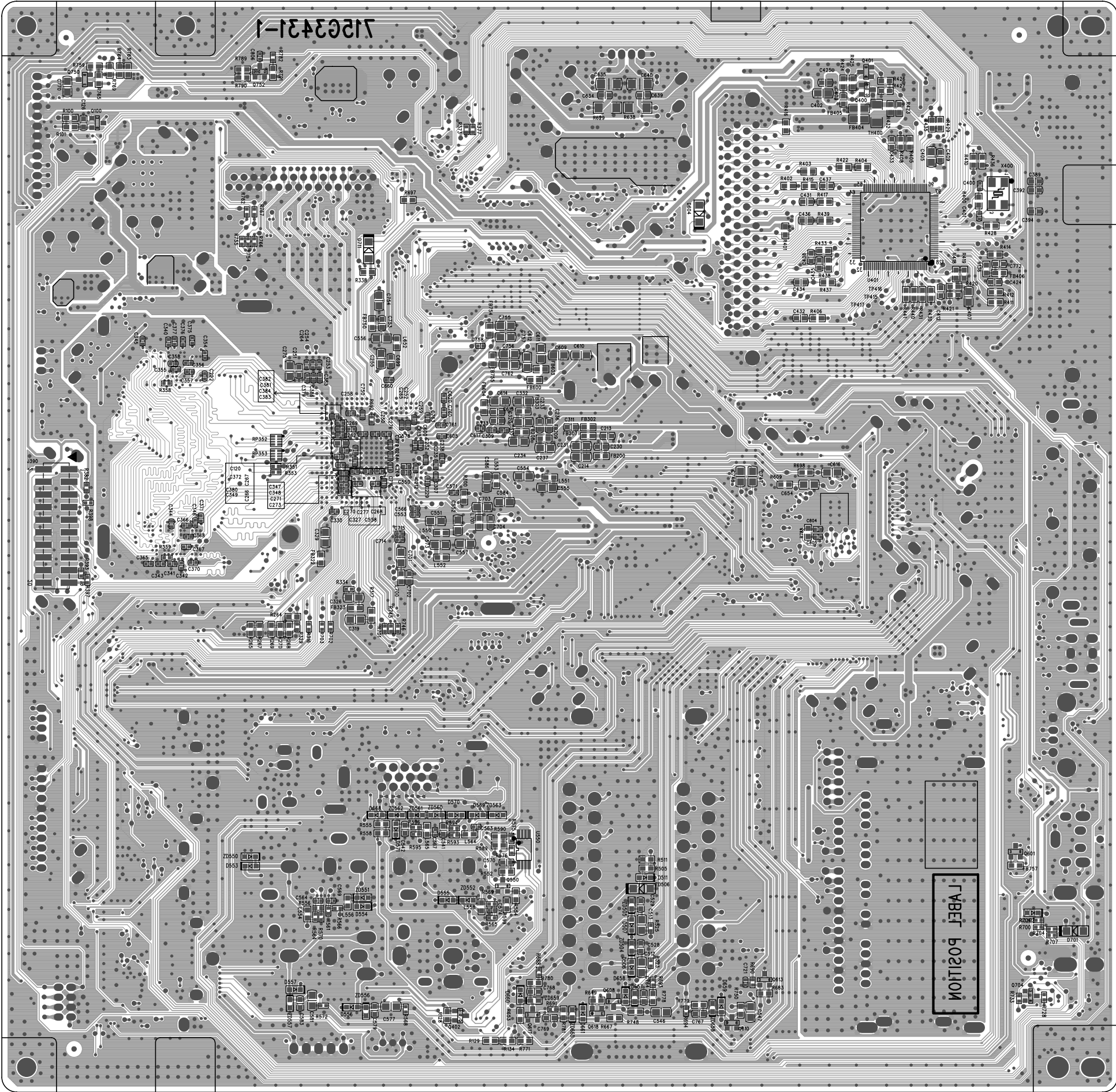


LED

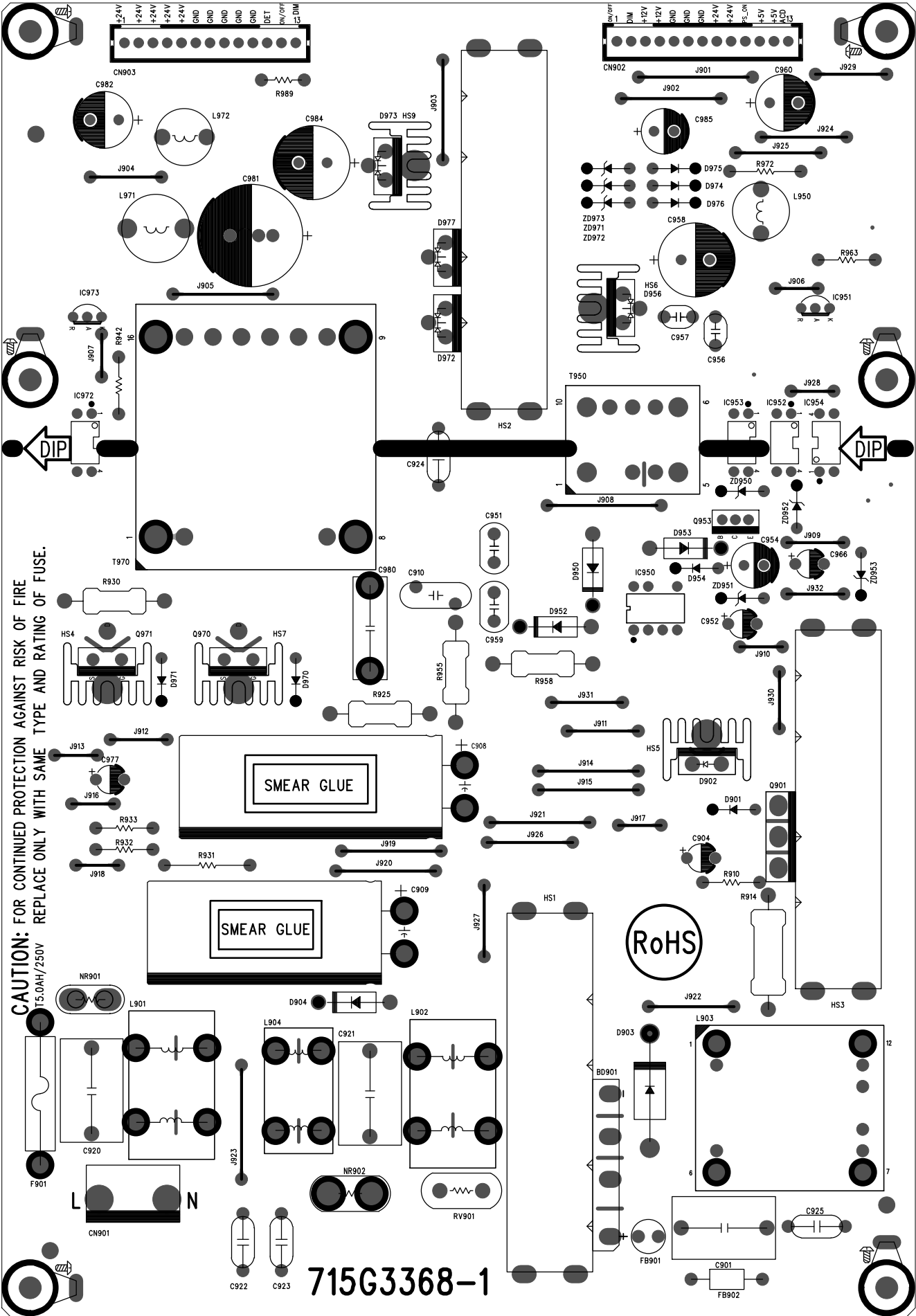
MAIN [Top]



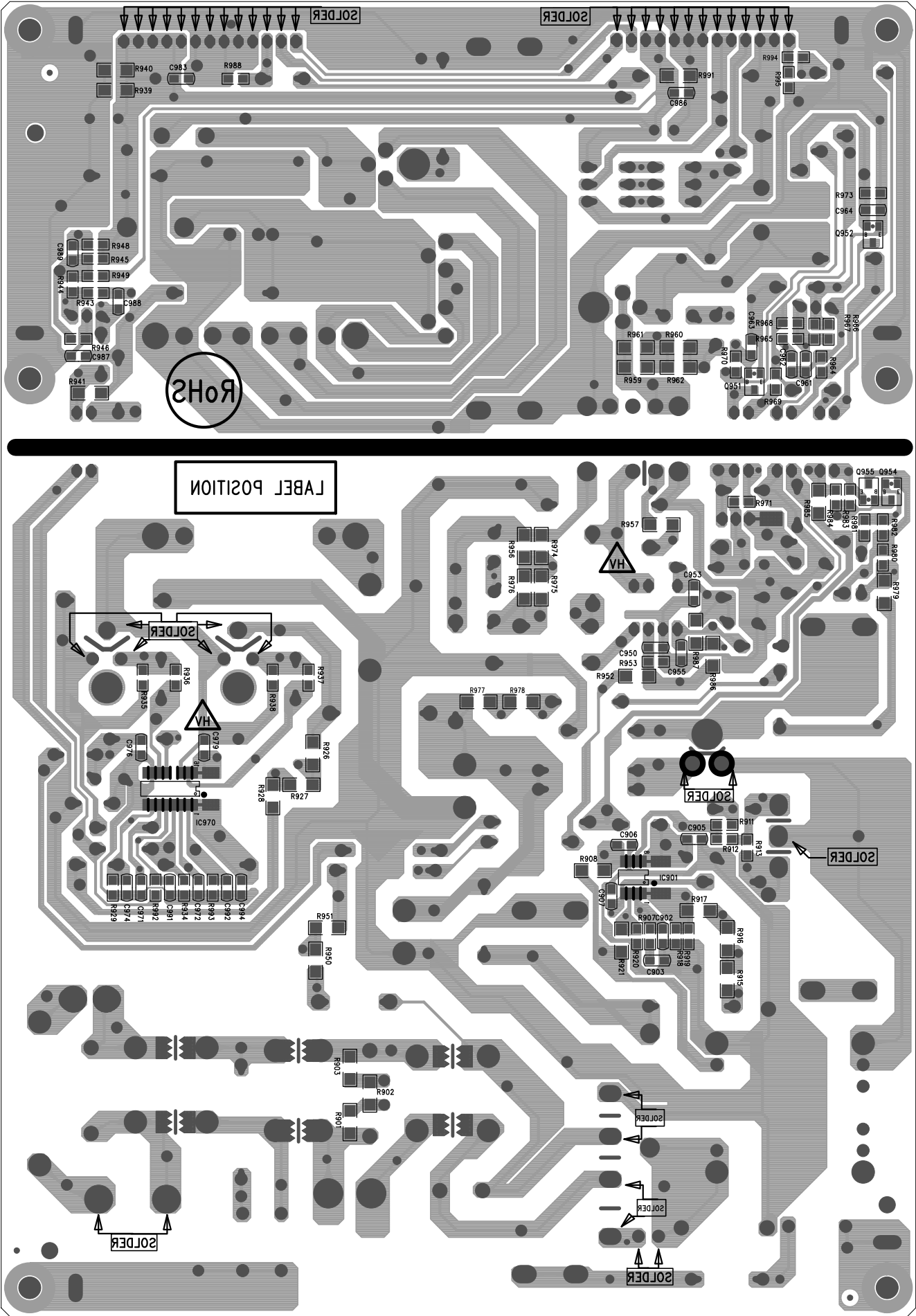
MAIN [Bottom]



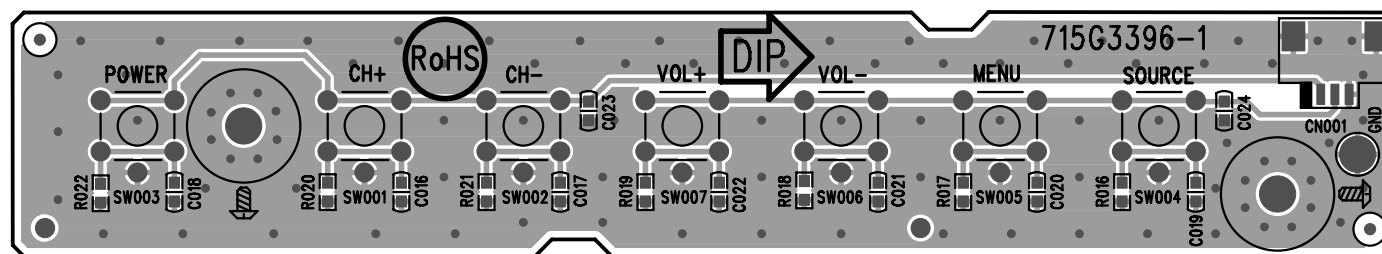
POWER [Top]



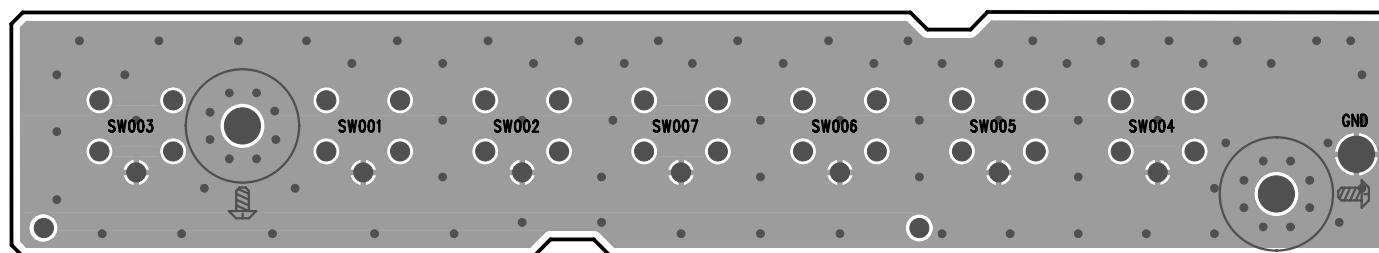
POWER [Bottom]



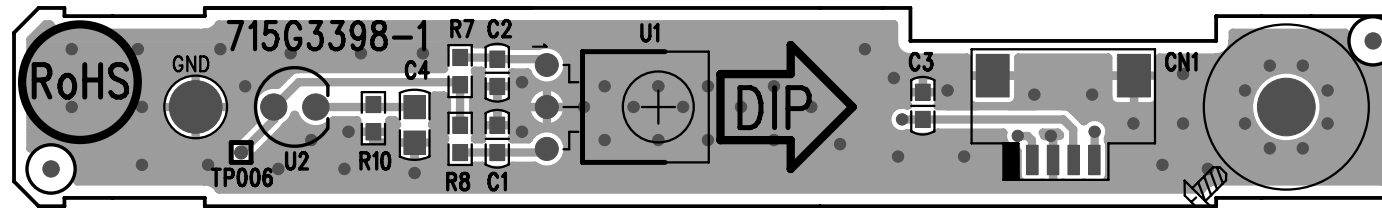
KEY [Top]



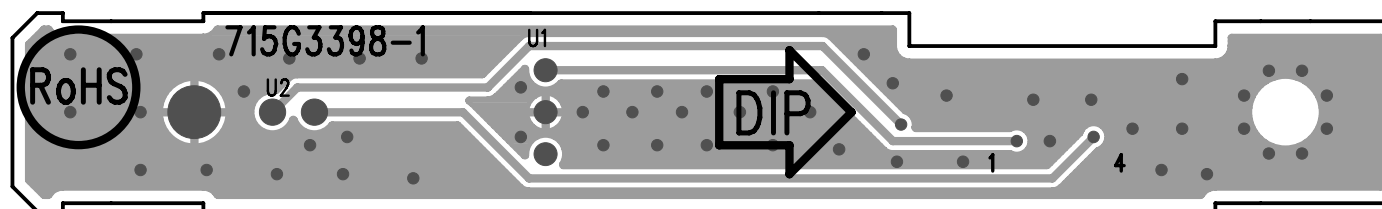
KEY [Bottom]



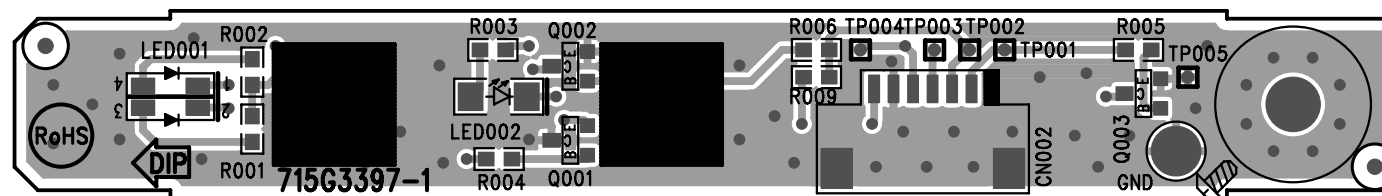
IR [Top]



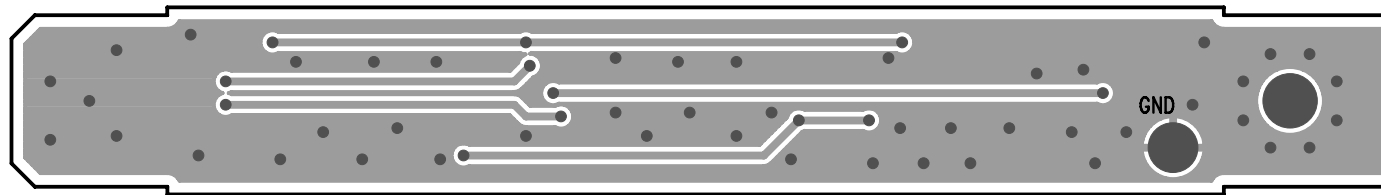
IR [Bottom]



LED [Top]



LED [Bottom]



FIRMWARE UPDATING

How to update using a USB Mass-storage device

1. Copy the software corresponding to the model to USB Mass-Storage device. (root directory)

Note: The software should be renamed to **upgrade.pkg** from the original one before copying.



Fig.1 USB Mass-storage device

2. Turn TV off, then plug USB Mass-storage device into the USB slot on the TV.

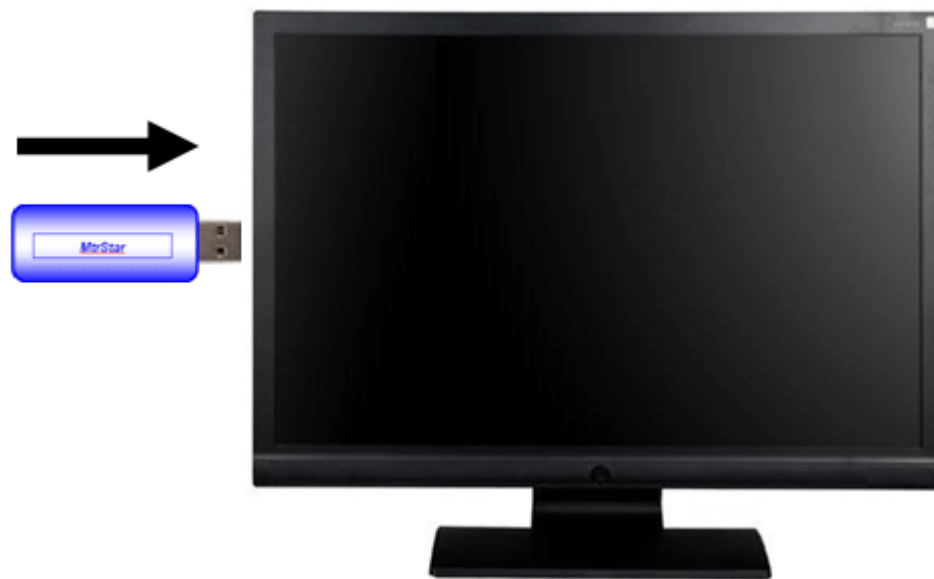


Fig.2 Plugging in USB Mass-storage device into the USB slot on TV
(Viewing from the TV front)



Fig.3 Plugging USB Mass-storage device into the USB slot on the TV (Actual view)

3. Turn TV on, then a software updating wizard will be displayed. Select "YES" and press "OK" button on the remote control to start the updating.

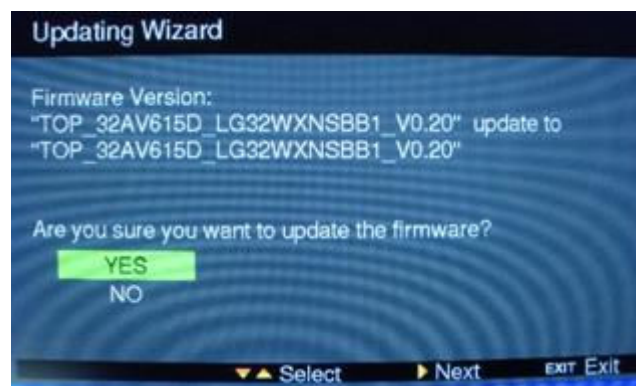


Fig.4 Updating Wizard

4. Upon completion, the display will show the message.



Fig.5 Updating completion

5. Unplug the USB Mass-storage device, and turn TV off.



Fig. 6 Removing USB Mass-storage device

6. Turn TV on and press "MENU" and "0000" on the remote control to confirm a new software version.



Fig. 7 FW version checking display

TECHNICAL BULLETIN

File Name	Title	issuing date
-----------	-------	--------------

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the "SAFETY PRECAUTION" and "PRODUCT SAFETY NOTICE".

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Abbreviations

Capacitors CD : Ceramic Disk

Resistors CF : Carbon film
OMF : Oxide Metal Film
PF : Plastic Film
CC : Carbon Composition
VR : Variable Resistor
EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are $\pm 5\%$, 50 V and all resistor, $\pm 5\%$, 1/6 W unless otherwise noted.

PARTS LIST

Block :

↓Select

Location :

Search



Parts No. :

Search



Page :

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Jump









PARTS LIST

Block : All Block

Block		Location	Parts No.	Description	AA	S	M	L		
Cabinet		E100	75014955	BEZEL ASSY, 32AV615DB, 705TZ834090						
Cabinet		E110	75015226	BACK COVER ASSY, 32AV605PB, 705TZ834091						
Cabinet		E112	75014952	SCREW, T4 L14 BLACK(BC TO FB SCREW), 0Q1G-940-14-47						
Cabinet		E114	75015193	SCREW, (BC TO FB SCREW TYPE 2), 0Q1T-330--8-47-CR3						
Cabinet		E116	75014950	SCREW, T4 L14 BLACK(BC TO FB SCREW), 0M1G-940--6-47						
Cabinet		E118	75015225	SCREW, (BC TO FB SCREW TYPE 4), 0M1G-130--8-47-CR3						
Cabinet		E120	75014957	BASE ASSY, STAND, 32AV615DB, 705TZ834094						
Cabinet		E122	75014956	STAND-NECK_ASSY, 32AV615DB, 705TZ834093						
Cabinet		E124	75014951	SCREW, (BASE TO STAND), 0M1T1740-10-47-CR3						
Cabinet		E130	75014953	SIDE KEY ASSY, 32AV615DB, 705TZ834075						
Cabinet		E140	75015698	COVER ASSY, SIDE-I/O, 26AV603PG, 705GZ934106						
Electric Parts		E200A	75015704	PC BOARD ASSY, MAIN WITH FW, 32AV603PG, CBPFR3HBZB						
Electric Parts		E200B	75017551	PC BOARD ASSY, MAIN WITH FW-SHARP, CBPFR3HBZR						
Electric Parts		E250	75017449	PC BOARD ASSY, POWER, ADTV92416AB6						
Electric Parts		E260	75014964	PC BOARD ASSY, KEY, 32AV615DB, KEPF8AB1						
Electric Parts		E265	75014962	PC BOARD ASSY, IR T2877-D-X-X-1-080306, IRPF8AA3						
Electric Parts		E270	75014963	PC BOARD ASSY, LED T2982-D-X-X-1-080323, IRPF8AA4						
Electric Parts		E300A	75013857	LCD PANEL, LC320WXN-SBB1						
Electric Parts		E300B	75014913	LCD PANEL, LK315T3LA51						
Electric Parts		E310A	75015224	WIRE HARNESS, 30P-2*15P 300MM(LVDS CABLE), 095G801830FA28						
Electric Parts		E310B	75017552	HARNESS, 30P-30P 350MM CJT20A0418(LVDS), 095G801830CA08						
Electric Parts		E320	75015958	POWER CORD 1800MM NON-METAL TIE, 089G404A18N-IS						
Electric Parts		E322	75014943	AC SOCKET, WITH LEAD WIRE 210/120MM, 087G501A--3--X						
Electric Parts		E330	75015682	SPEAKER, 6 OHM 12W 178.5X36.2MM, 078G0120--1--M						
Electric Parts		E340	75015223	HARNESS, 11P-6P+4P+3P 720+250+550MM, 095G801411FA18						
Electric Parts		E350	75015222	HARNESS, 4P+2*(2*PAST) 650MM+850MM(SPEAKER), 095G8014-4FA44						
Electric Parts		E360	75015220	HARNESS, 13P-14P 310MM(POWER TO PANEL), 095G801314FA13						
Electric Parts		E370	75015221	HARNESS, 13P-14P 190MM(POWER TO MAIN), 095G801314FA25						
Accessory		E400	75014827	REMOCON HAND UNIT, CT-90326						
Accessory		E411	75017544	QSG, Z41GJ031939-1D						
Accessory		E412	75015941	MANUAL SHEET FOR CLEAN CLOTH, Z41GJ032939-1A						
Accessory		E413	75015957	INSTALLATION SHEET, Z41GJ033939-1A						
Accessory		E414	75015942	PE-BAG OF MANUAL, Z45G8801001						
Accessory		E415	75015956	BASE SCREW ASSY, 705TZ801007						
Accessory		E416	75015943	CLOTH, Z36G6001001						
Packing		E500	75014967	CARTON BOX, 32AV615DB, Z44GJ016939-1A						
Packing		E510	75014966	CUSHION KIT, 32AV615DB, Z44GJ004001						
Packing		E511	75015686	CUSHION, 32AV607PG, Z44GJ004002						
Packing		E512	75015687	CUSHION, 32AV607PG, Z44GJ004003						
Packing		E513	75015688	CUSHION, 32AV607PG, Z44GJ004004						
Packing		E520	75014965	PE BAG (680X1000), 32AV615DB, P45G9901005						

PARTS LIST

Block :

Accessory

Location :

Search

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Jump

Parts No. :

Search

Block	Location	Parts No.	Description	AA	S	M	L		
Accessory	E400	75014827	REMOCON HAND UNIT, CT-90326						
Accessory	E411	75017544	QSG, Z41GJ031939-1D						
Accessory	E412	75015941	MANUAL SHEET FOR CLEAN CLOTH, Z41GJ032939-1A						
Accessory	E413	75015957	INSTALLATION SHEET, Z41GJ033939-1A						
Accessory	E414	75015942	PE-BAG OF MANUAL, Z45G8801001						
Accessory	E415	75015956	BASE SCREW ASSY, 705TZ801007						
Accessory	E416	75015943	CLOTH, Z36G6001001						

PARTS LIST

Block :

Accessory

Location :

Search

Page :

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 / 1

Jump

Parts No. :

Search

Block	Location	Parts No.	Description	AA	S	M	L		
Accessory	E400	75014827	REMOCON HAND UNIT, CT-90326						
Accessory	E411	75017544	QSG, Z41GJ031939-1D						
Accessory	E412	75015941	MANUAL SHEET FOR CLEAN CLOTH, Z41GJ032939-1A						
Accessory	E413	75015957	INSTALLATION SHEET, Z41GJ033939-1A						
Accessory	E414	75015942	PE-BAG OF MANUAL, Z45G8801001						
Accessory	E415	75015956	BASE SCREW ASSY, 705TZ801007						
Accessory	E416	75015943	CLOTH, Z36G6001001						

PARTS LIST

Block :

Cabinet

Location :

Search

Page :

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Jump

Parts No. :

Search

Block		Location	Parts No.	Description	AA	S	M	L		
Cabinet		E100	75014955	BEZEL ASSY, 32AV615DB, 705TZ834090						
Cabinet		E110	75015226	BACK COVER ASSY, 32AV605PB, 705TZ834091						
Cabinet		E112	75014952	SCREW, T4 L14 BLACK(BC TO FB SCREW), 0Q1G-940-14-47						
Cabinet		E114	75015193	SCREW, (BC TO FB SCREW TYPE 2), 0Q1T-330--8-47-CR3						
Cabinet		E116	75014950	SCREW, T4 L14 BLACK(BC TO FB SCREW), 0M1G-940--6-47						
Cabinet		E118	75015225	SCREW, (BC TO FB SCREW TYPE 4), 0M1G-130--8-47-CR3						
Cabinet		E120	75014957	BASE ASSY, STAND, 32AV615DB, 705TZ834094						
Cabinet		E122	75014956	STAND-NECK ASSY, 32AV615DB, 705TZ834093						
Cabinet		E124	75014951	SCREW, (BASE TO STAND), 0M1T1740-10-47-CR3						
Cabinet		E130	75014953	SIDE KEY ASSY, 32AV615DB, 705TZ834075						
Cabinet		E140	75015698	COVER ASSY, SIDE-I/O, 26AV603PG, 705GZ934106						

PARTS LIST

Block :

Cabinet

Location :

Search

Page :

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Jump

Parts No. :

Search

Block		Location	Parts No.	Description	AA	S	M	L		
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Cabinet		E110	75015226	BACK COVER ASSY, 32AV605PB, 705TZ834091						
Cabinet		E112	75014952	SCREW, T4 L14 BLACK(BC TO FB SCREW), 0Q1G-940-14-47						
Cabinet		E114	75015193	SCREW, (BC TO FB SCREW TYPE 2), 0Q1T-330--8-47-CR3						
Cabinet		E116	75014950	SCREW, T4 L14 BLACK(BC TO FB SCREW), 0M1G-940--6-47						
Cabinet		E118	75015225	SCREW, (BC TO FB SCREW TYPE 4), 0M1G-130--8-47-CR3						
Cabinet		E120	75014957	BASE ASSY, STAND, 32AV615DB, 705TZ834094						
Cabinet		E122	75014956	STAND-NECK ASSY, 32AV615DB, 705TZ834093						
Cabinet		E124	75014951	SCREW, (BASE TO STAND), 0M1T1740-10-47-CR3						
Cabinet		E130	75014953	SIDE KEY ASSY, 32AV615DB, 705TZ834075						
Cabinet		E140	75015698	COVER ASSY, SIDE-I/O, 26AV603PG, 705GZ934106						

PARTS LIST

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Packing

Location :

Search

Page :

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Jump

Parts No. :

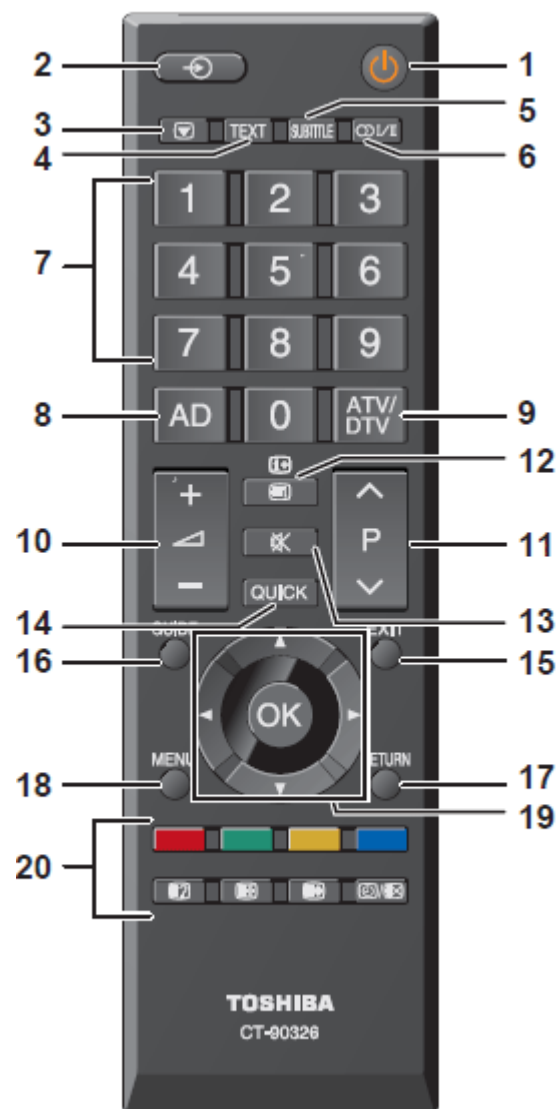
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Packing		E510	75014966	CUSHION KIT, 32AV615DB, Z44GJ004001						
Packing		E511	75015686	CUSHION, 32AV607PG, Z44GJ004002						
Packing		E512	75015687	CUSHION, 32AV607PG, Z44GJ004003						
Packing		E513	75015688	CUSHION, 32AV607PG, Z44GJ004004						
Packing		E520	75014965	PE BAG (680X1000), 32AV615DB, P45G9901005						

FUNCTION AND OPERATION

The Remote Control

A simple at-a-glance reference of your remote control.

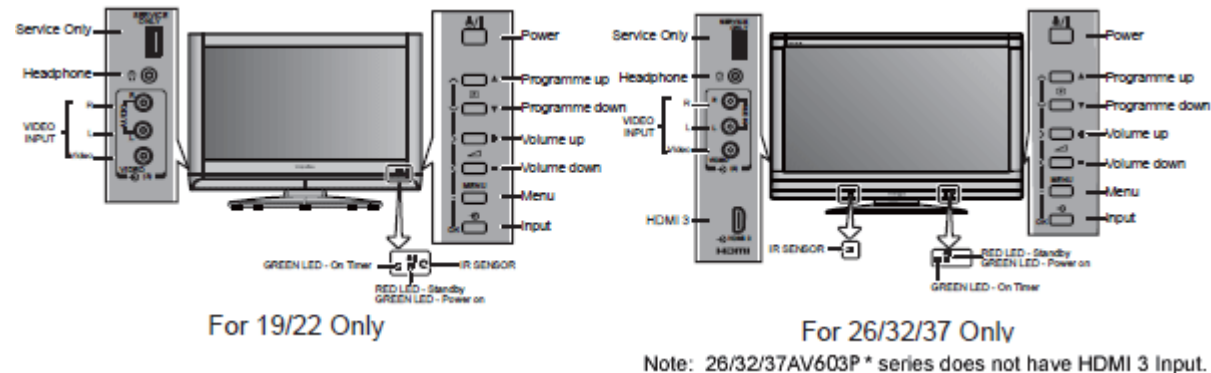


- 1 For On/Standby mode
- 2 To select input from external sources
- 3 Still Picture
- 4 To display the teletext screen
- 5 To turn the subtitle On/Off
- 6 Stereo/Bilingual transmissions
- 7 Number buttons
- 8 No Function
- 9 No Function
- 10 To alter the volume
- 11 To change programme
- 12 In TV mode: To display on screen information
In Text mode: To access index page
- 13 To mute the sound
- 14 To display Quick access menu
- 15 To exit menus
- 16 No Function
- 17 Return to the previous level of the on screen menu
- 18 To display the on-screen menu
- 19 ▲, ▼, ◀, ▶:
In the on-screen menu: To move up, down, left or right
In Text mode: To change the page
OK: To confirm the selection
- 20 Colour button: Text control buttons
 - To reveal concealed text
 - To hold a wanted page
 - To enlarge text display size
 - To select a page whilst viewing a normal picture

FUNCTION AND OPERATION

Using the Controls

Although all necessary adjustments and controls for the television are normally made using the remote control, the buttons on the television may be used for some functions.



Switching On

If the RED LED is off check that the mains plug is connected to the power supply. If the picture does not appear press on the remote control, it may take a few moments.

To put the television into Standby press on the remote control. To view the picture press again. The picture may take a few seconds to appear.

Using the Remote Control

To set up the television you need to use the on screen menus. Press on the remote control to display the menus.

The on-screen menu appears as a list of five items. As each symbol is selected by pressing or on the navigation ring of the remote control, its respective options will appear below.

To use the options, press or on the navigation ring to move up and down through the choices and use , or to select the required choice. Follow the on-screen instructions.

Using the Controls

To alter the volume press or .

To alter the programme position press P .

Press and , , or to control the sound and picture options.

Press to finish.

To select the external input, press and then use or to move through the list until the appropriate input source is selected.

Please always refer to the owner's manual of the equipment to be connected for full details.

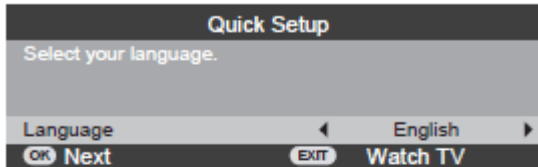
Please note: Inserting the headphone plug will mute the sound from all speakers.

Tuning the Television

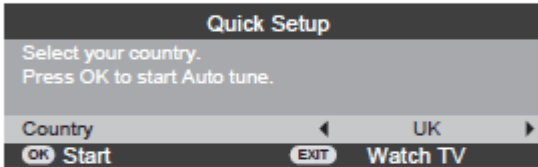
Before switching on the television put your decoder and media recorder to **Standby** if they are connected.

Quick Setup

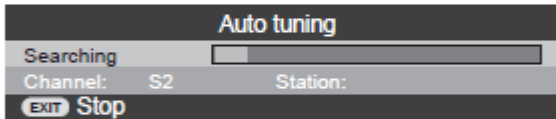
- 1
- Connect the television to the mains power and press the  button. The Quick Setup screen will appear.
- 2
- Select your language using  or , then press .



- 3
- Select your country using  or  and press .



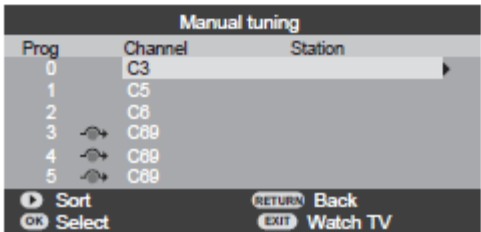
- 4
- To start Auto tuning press .



A search for all available stations will begin. The slide bar will move along the line as the search progresses.

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This picture may not be clear, or the signal may be weak. Use **Manual tuning** in **SET UP** to change the station order.



- 5** With the list of stations now showing use ▲ or ▼ to highlight the station you want to move and press ►.
- The selected station will be moved to the right of the screen.

Manual tuning		
Prog	Channel	Station
0	C3	
1	◀C5	
2	C8	
3	↔C89	
4	↔C89	
5	↔C89	
◀ Store RETURN Back EXIT Watch TV		

- 6** Use ▲ or ▼ to move through the list to your preferred position. As you do so the other stations will move to make room.

Manual tuning		
Prog	Channel	Station
0	C3	
1	C8	
2	◀C5	
3	↔C89	
4	↔C89	
5	↔C89	
◀ Store RETURN Back EXIT Watch TV		

- 7** Press ◀ to store your move.

Repeat as necessary, then press (EXIT).

If the television cannot be connected to a medium recorder or decoder with a SCART lead, or if a station on another system is required, use **Manual tuning** to allocate a programme position.

SPECIFICATION

Broadcast systems/channels

PAL-I	UHF UK21-UK69
PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
SECAM-D/K	UHF R21-R69 VHF R1-R12
Video Input	PAL, SECAM, NTSC 3.58/4.43

External connections

MODEL 19/22

EXT1	Input/Output	21-pin SCART	RGB, A/V, S-video
EXT2	Input	Jacks Phono jacks	Y, P _B /C _B , P _R /C _R Audio L + R
EXT3	Input	Jack Phono jacks	Video Audio L + R
HDMI	Input	HDMI™	
PC/HDMI Audio		Phono jacks	Audio L + R
PC	Input	D-sub	RGB

MODEL 26/32/37

EXT1	Input	21-pin SCART 1	A/V, RGB
EXT2	Input/Output	21-pin SCART 2	A/V, S-video
EXT3	Input Phono	jacks Phono jacks	Y, P _B /C _B , P _R /C _R Audio L + R
EXT4	Input Phono	jack Phono jacks	Video Audio L + R
PC	Input	D-sub	RGB
HDMI 1/2/3	Input	HDMI™	
PC/HDMI 1 Audio		Phono jacks	Audio L + R

Note: 26/32/37AV603P * series does not have HDMI 3 Input.

Stereo		Nicam 2 carrier system
Visible Screen Size (approx.)	Model	19 409.80 x 230.40mm
		22 477.41 x 268.41mm
		26 575.77 x 323.71mm
		32 697.69 x 392.26mm
		37 877.00 x 518.00mm
Display		16:9
Sound output (at 10% distortion)	Model	19 3W + 3W
		22 3W + 3W
		26 5W + 5W
		32 10W + 10W
		37 10W + 10W
Power consumption as specified in EN60107-1 : 1997	Model	19 50W
		22 65W
		26 120W
		32 160W
		37 200W
Standby (approx.)	Model	19 0.5W
		22 0.5W
		26 0.5W
		32 0.5W
		37 0.5W
Dimensions (approx.)	Model	19 35.9cm(H) 47.2cm(W) 19.2cm(D)
		22 39.9cm(H) 54.3cm(W) 21.9cm(D)
		26 49.4cm(H) 66.7cm(W) 24.0cm(D)
		32 57.1cm(H) 78.6cm(W) 27.1cm(D)
		37 63.7cm(H) 90.2cm(W) 29.3cm(D)
		(Height dimension includes foot stand)
Weight (approx.)	Model	19 5.3 kg
		22 6.5 kg
		26 10.5 kg
		32 13.8 kg
		37 17.1 kg
Headphone socket		R3.5mm stereo
Operating condition		Temperature 5°C - 35°C (41°F - 94°F) Humidity 20 - 80% (non-condensing)