TOSHIBA

SERVICE MANUAL

LCD Color Television

26SL738G

Ver. 2.00

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:

You are requested that you shall not modify or alter the information or data provided herein without prior written consent by Toshiba. Toshiba shall not be liable to anybody for any damages, losses, expenses or costs, if any, incurred in connection with or as a result of such modification or alteration.

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IMPORTANT NOTICE

User's Guide

Contents:

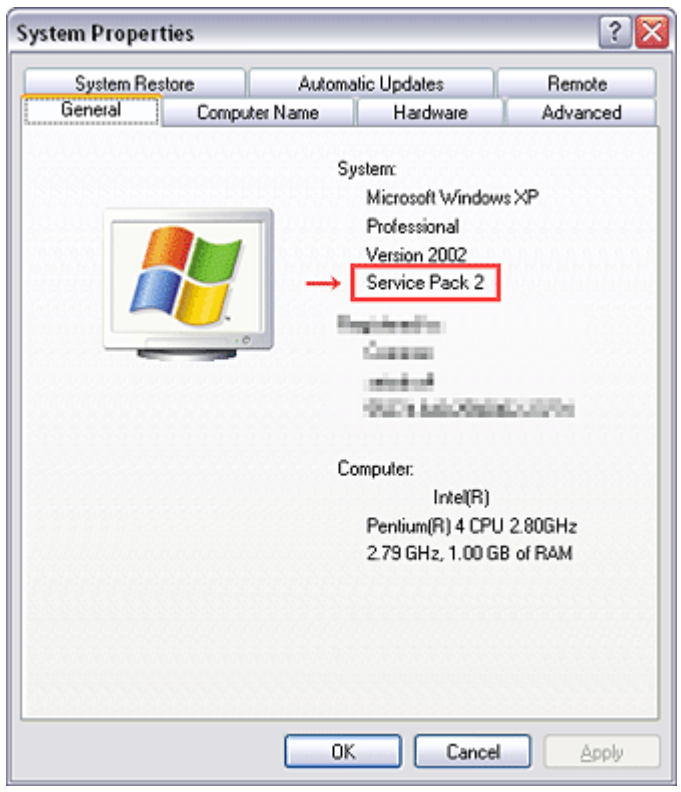
Install Autodesk DWF Viewer

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

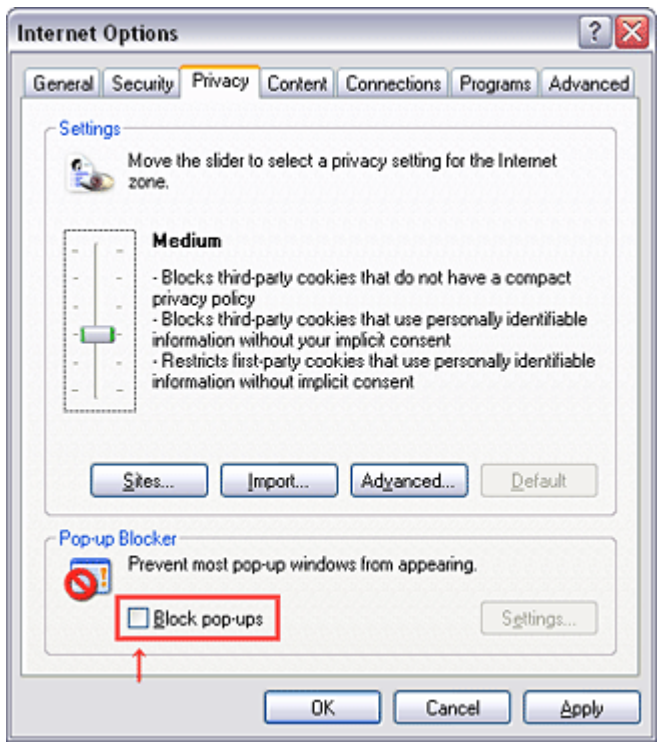
Internet Explorer Settings

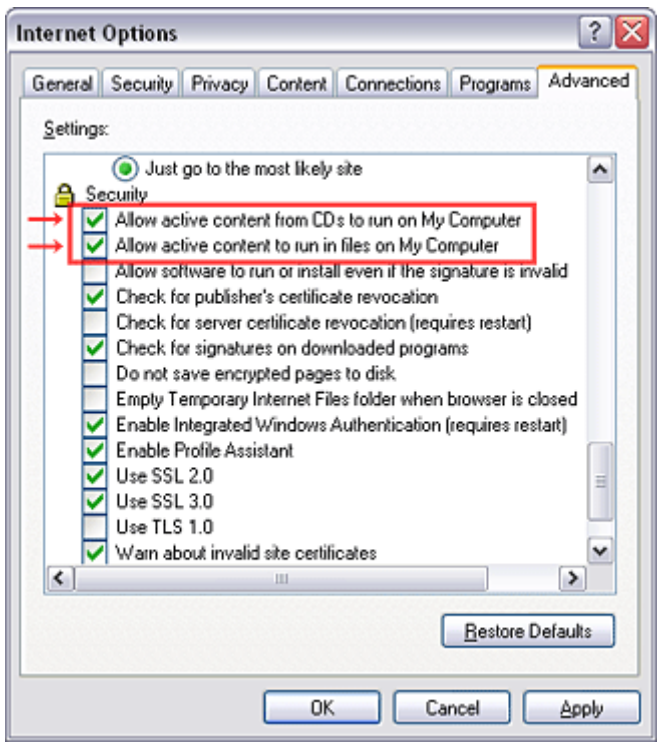
When **Windows XP SP2** or **Windows Vista** is used, ActiveX control and pop-up windows are limited by the enhanced security function and this system may not work. In that case, perform the Internet Explorer setting using the following procedure to restore normal operation.

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

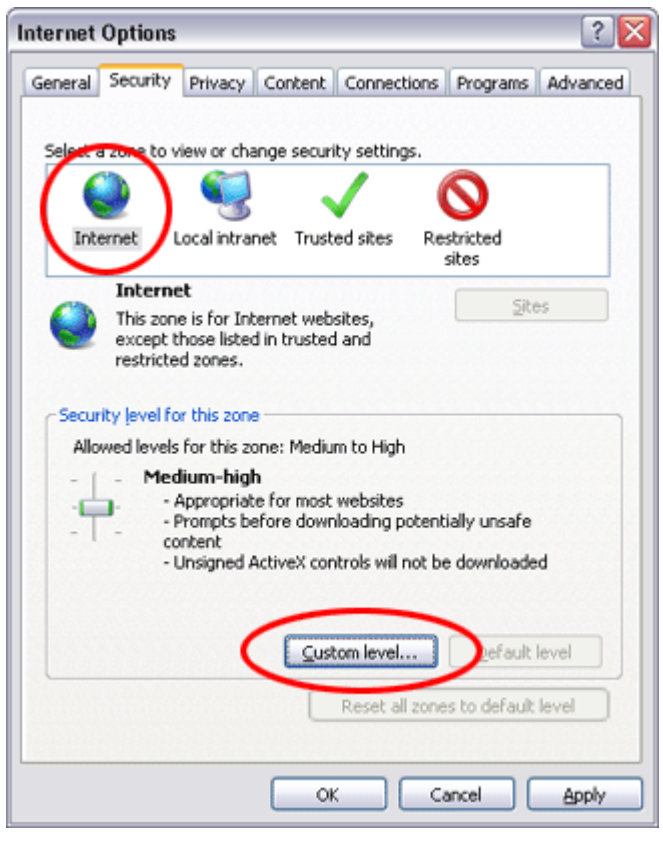


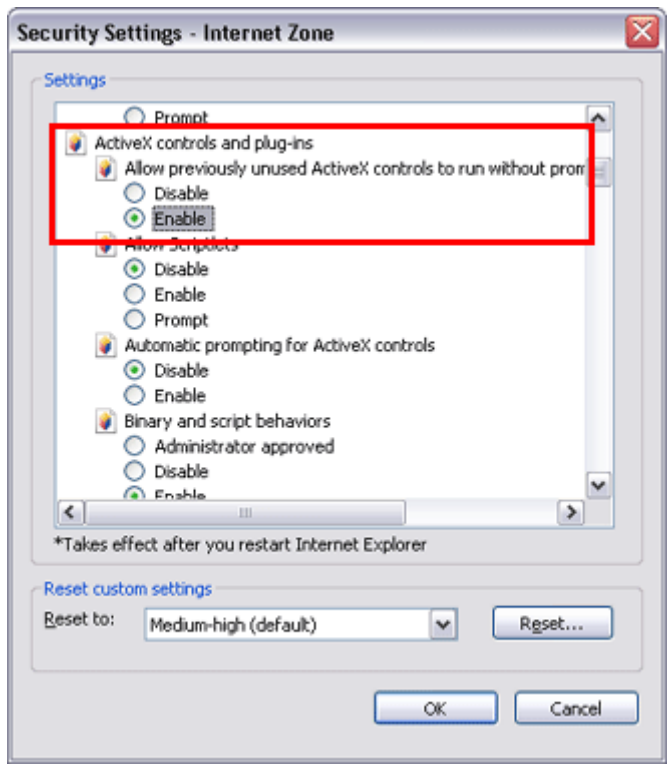
2. Internet Explorer setting
   [Tools] - [Internet Options]



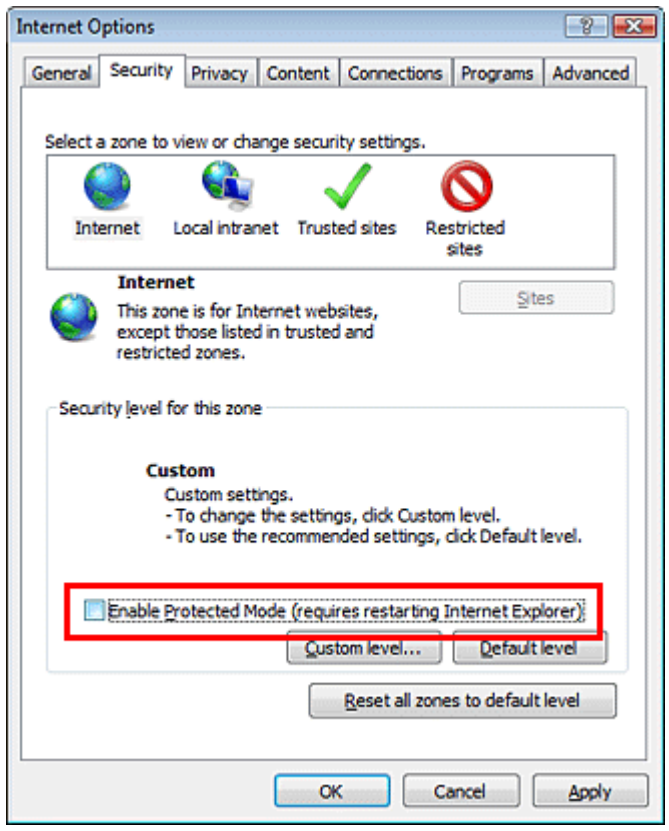


for Internet Explorer 7





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. Connecter 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.

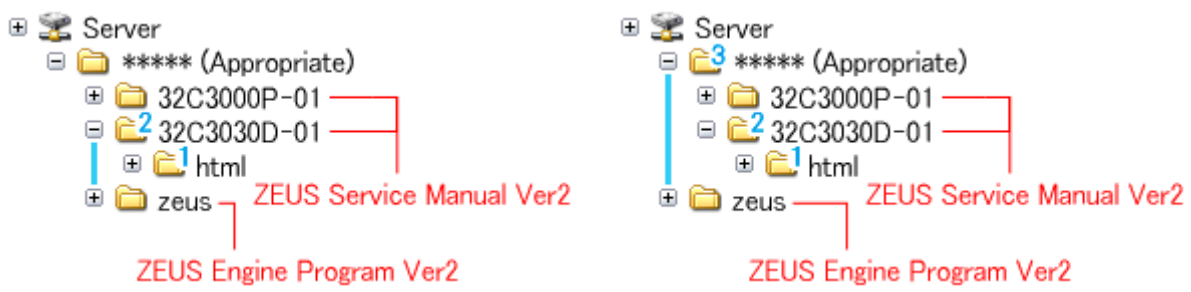
3. Create the appropriate folder where the ZEUS Engine Program Ver.2 and the ZEUS Service Manual Ver.2 to be stored in the server.

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.

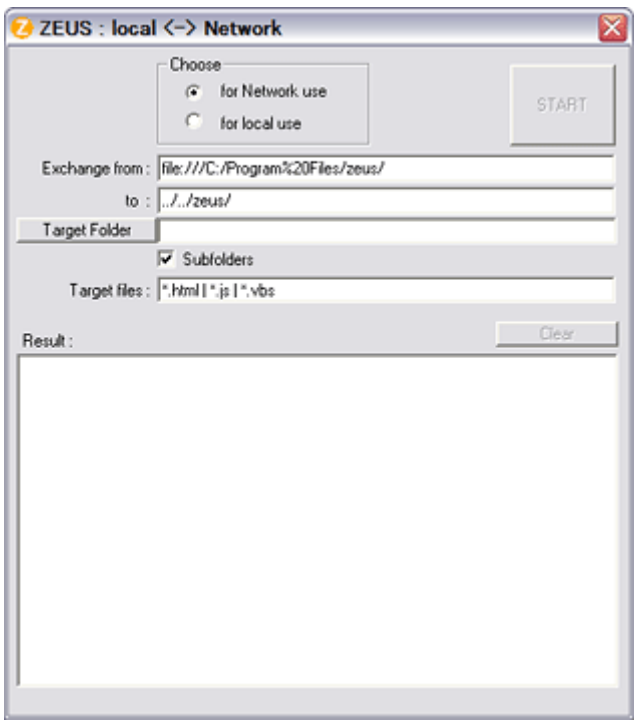
6. Unzip the ZEUS Service Manual Ver.2 within the folder in the Server.

   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.

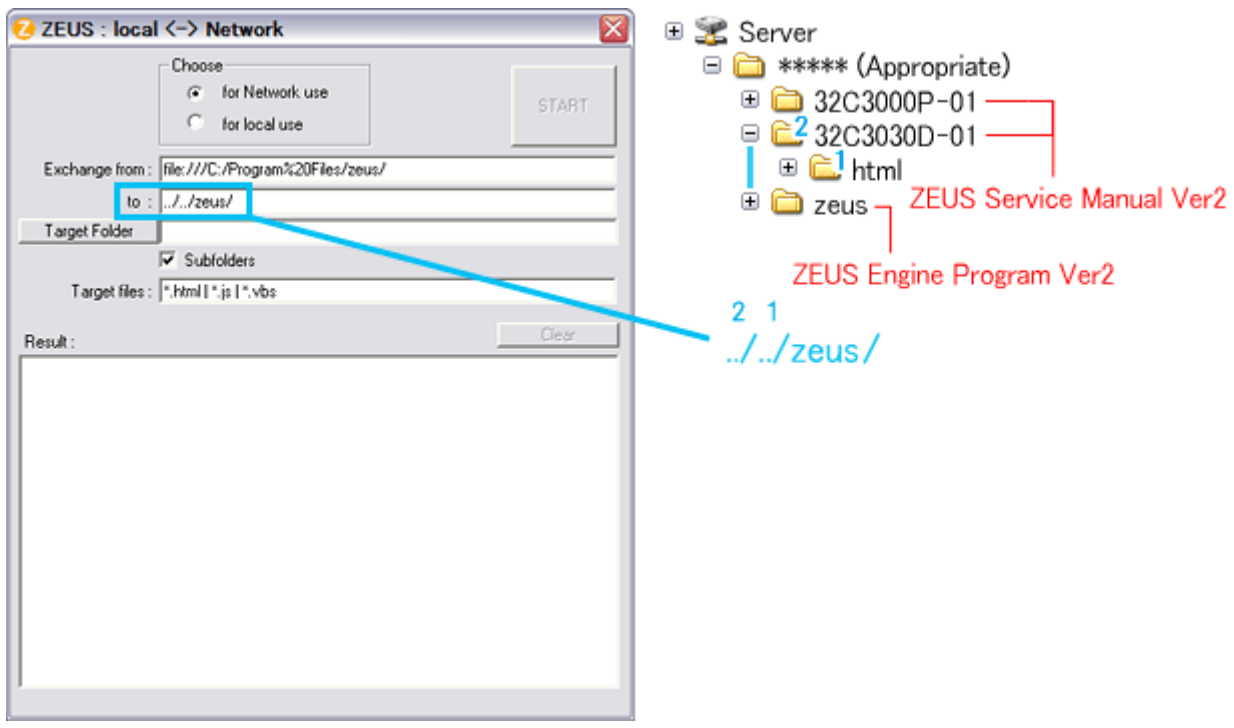
   Run the zeusFPch and set "Exchange to" by referring to the examples below.

   Example 1 :

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

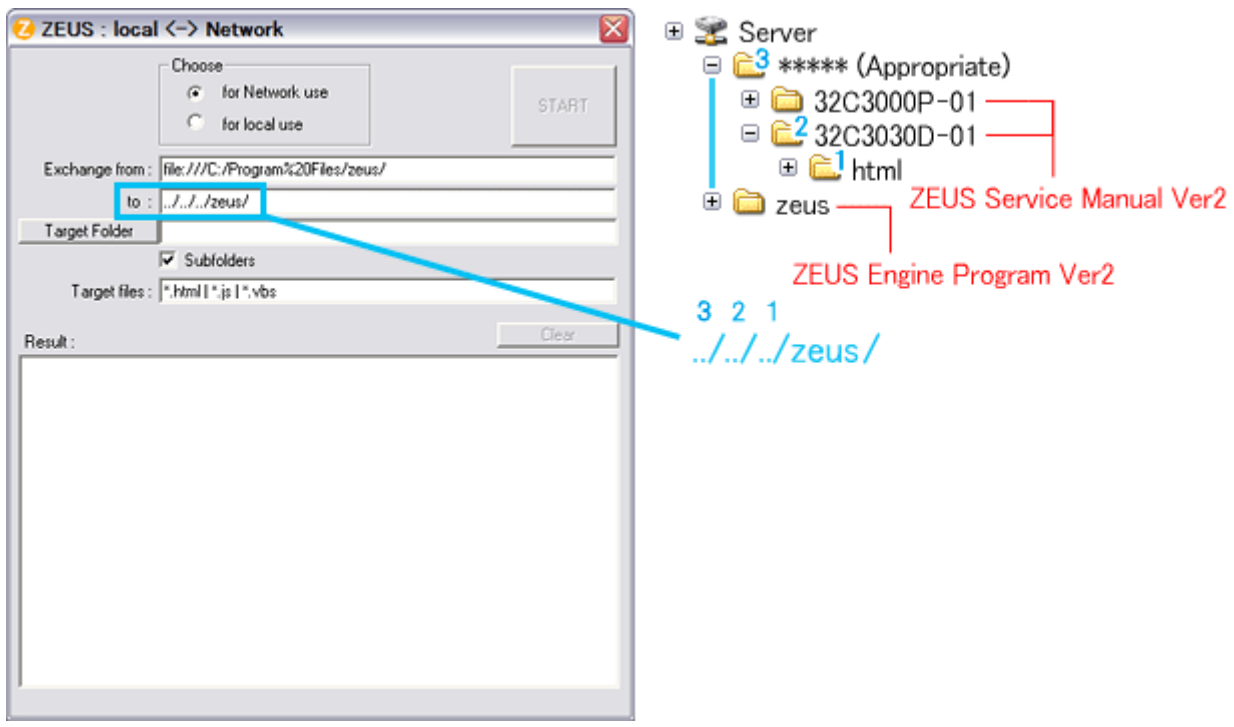
   ../ counts the relation between.

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



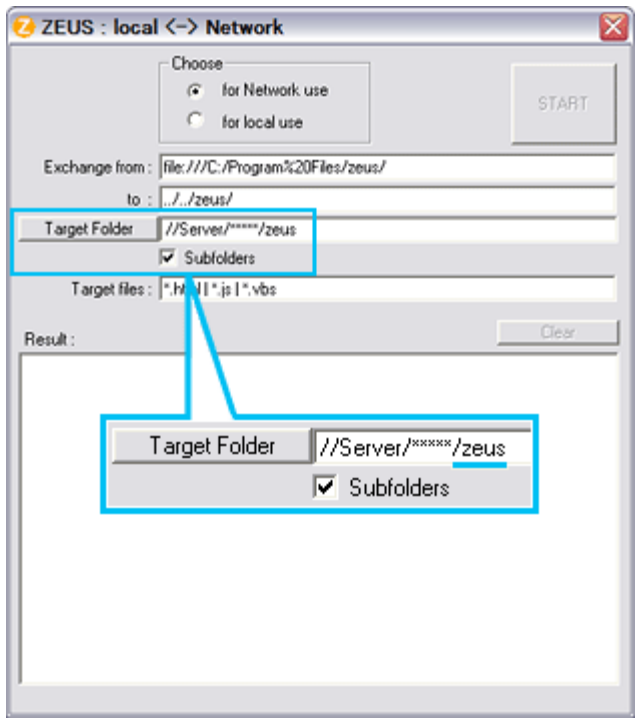
   Example 2 :

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



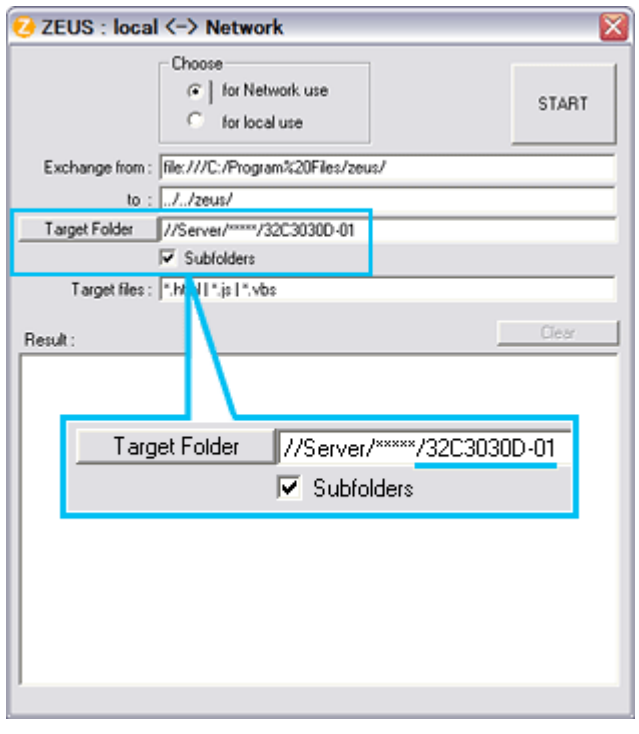
2. Run the zeusFPch to change the path in the ZEUS Engine Program Ver.2.

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 86ºF to 104ºF (30ºC to 40ºC). 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.

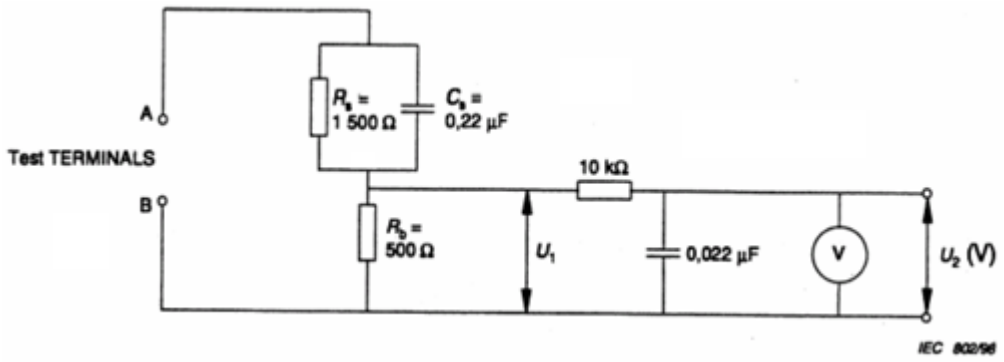
10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)

    - 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.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : ≧ 1 MΩ
Input capacitance : ≦ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

- 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 V (peak) and U_2 = 0.35 V (peak);
   - for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 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

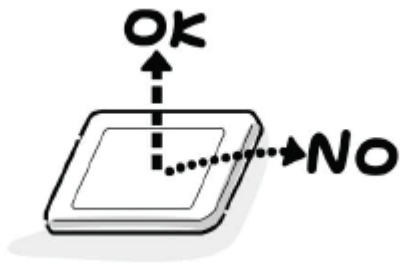
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact 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.

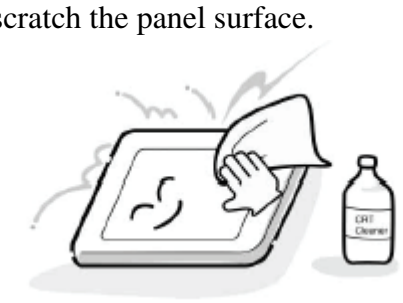
The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

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 solied, 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.

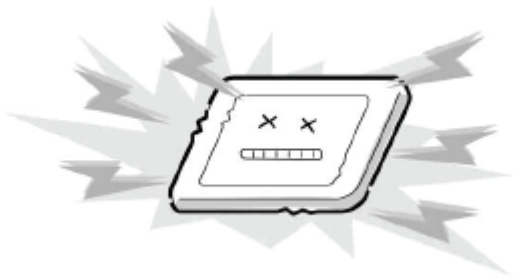


4. Leaving water or other fluids on the panel screen for an extended period of time can

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.

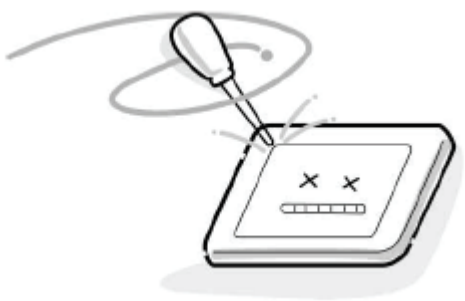
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



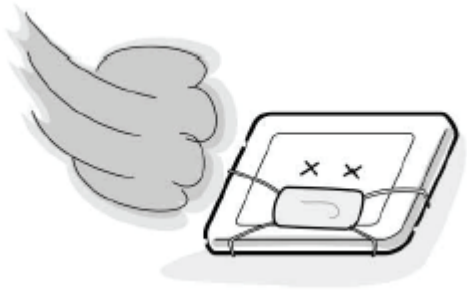
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

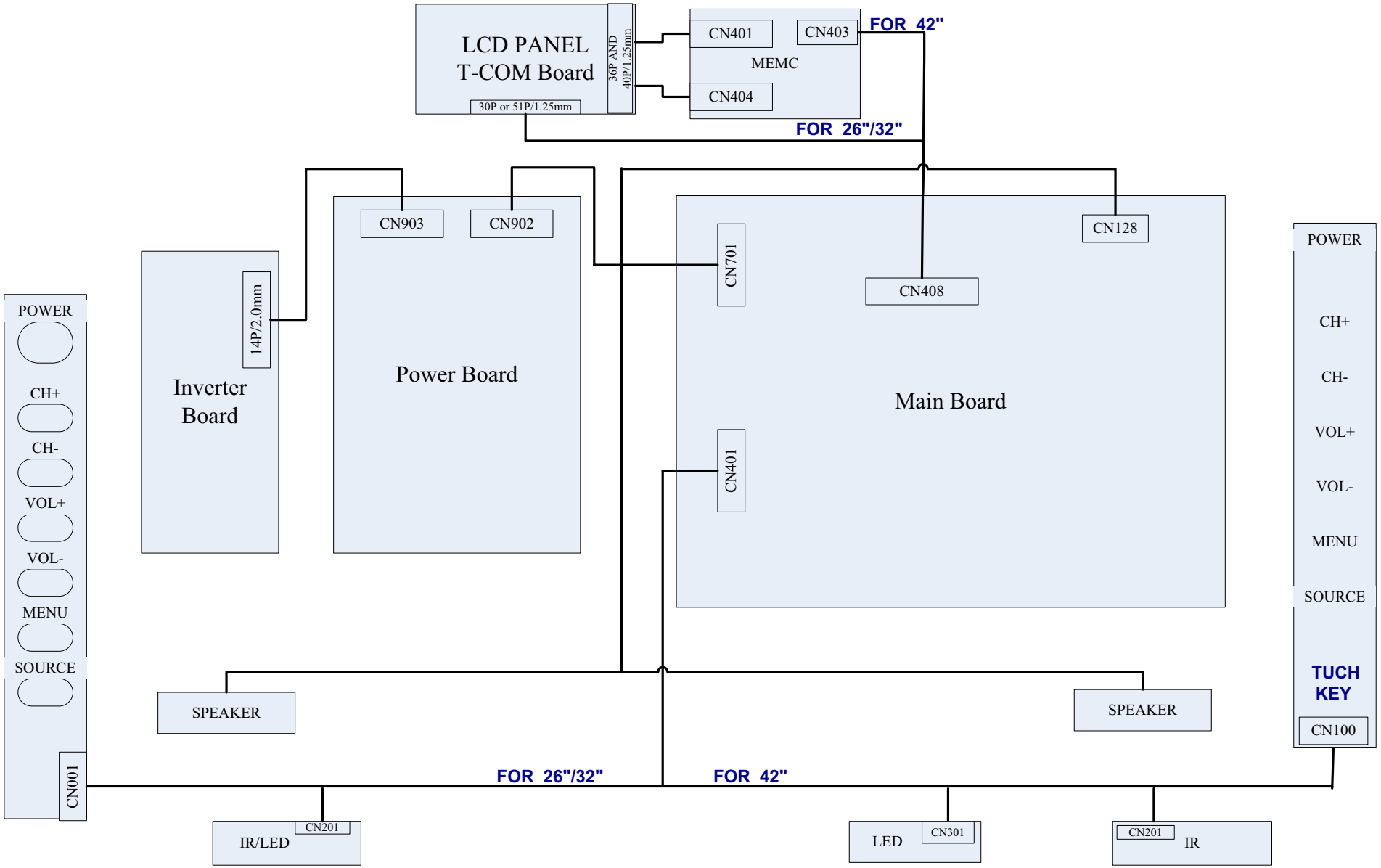
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

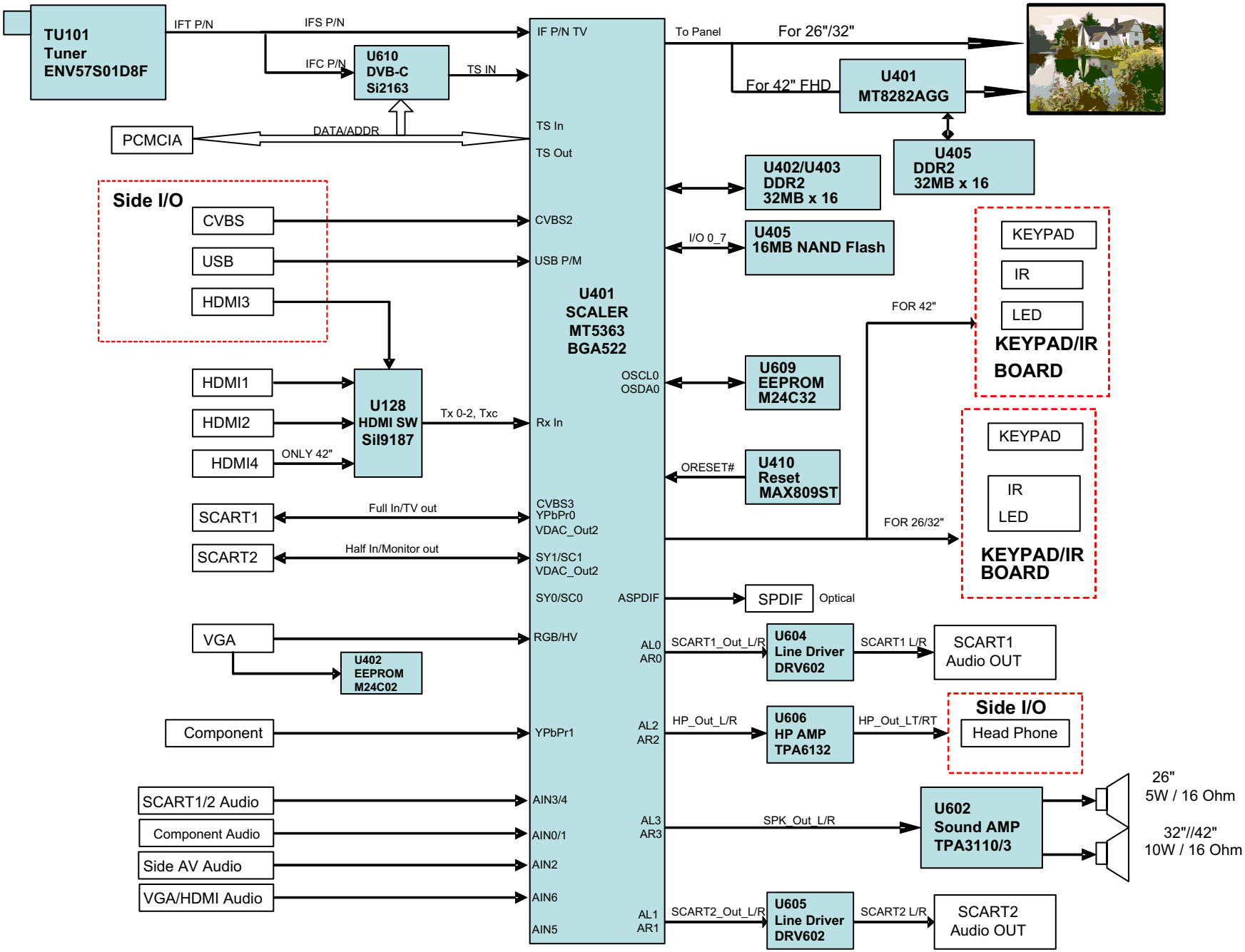
9. Do not disassemble the LCD module. Such actions could result in improper operation.

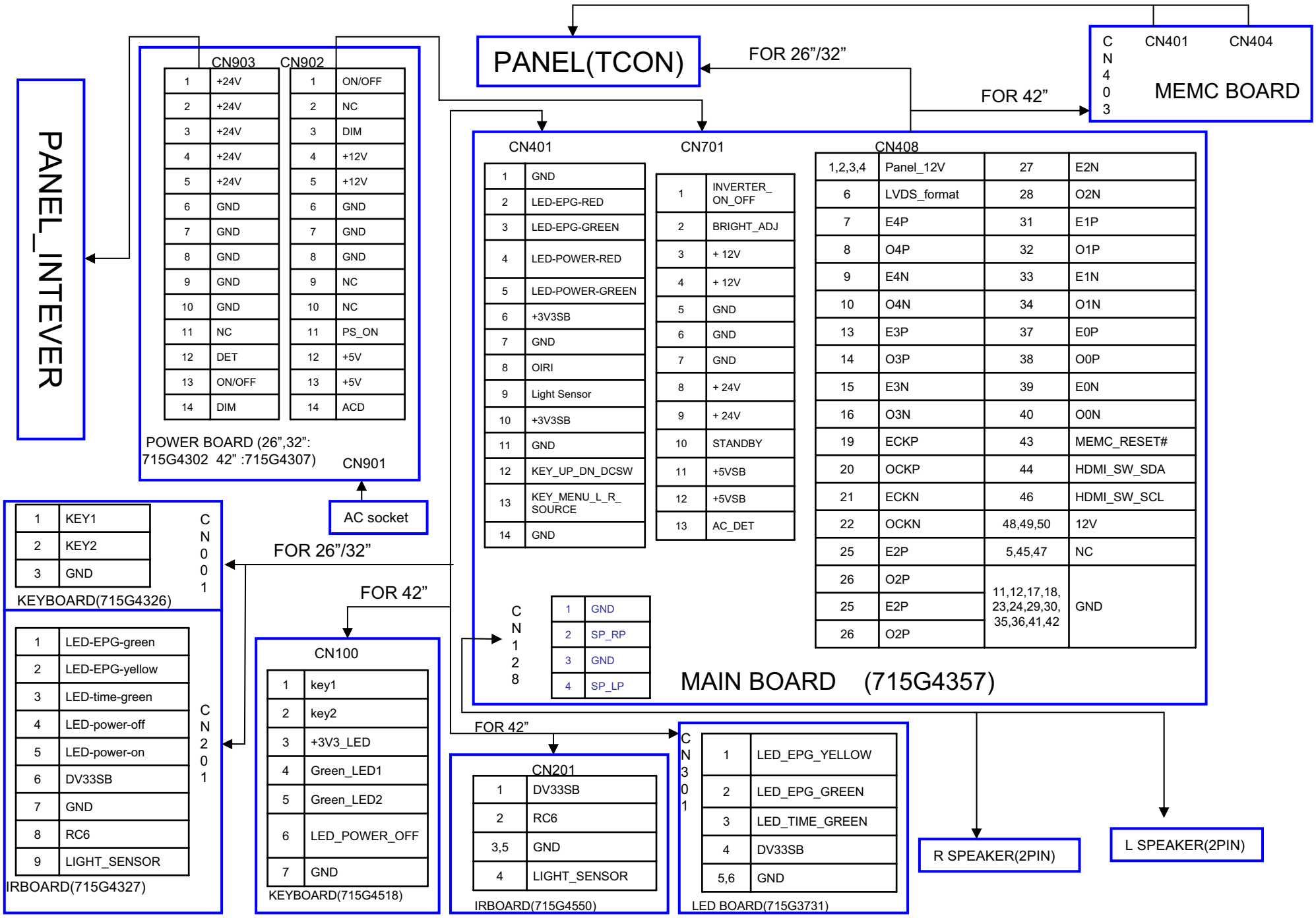


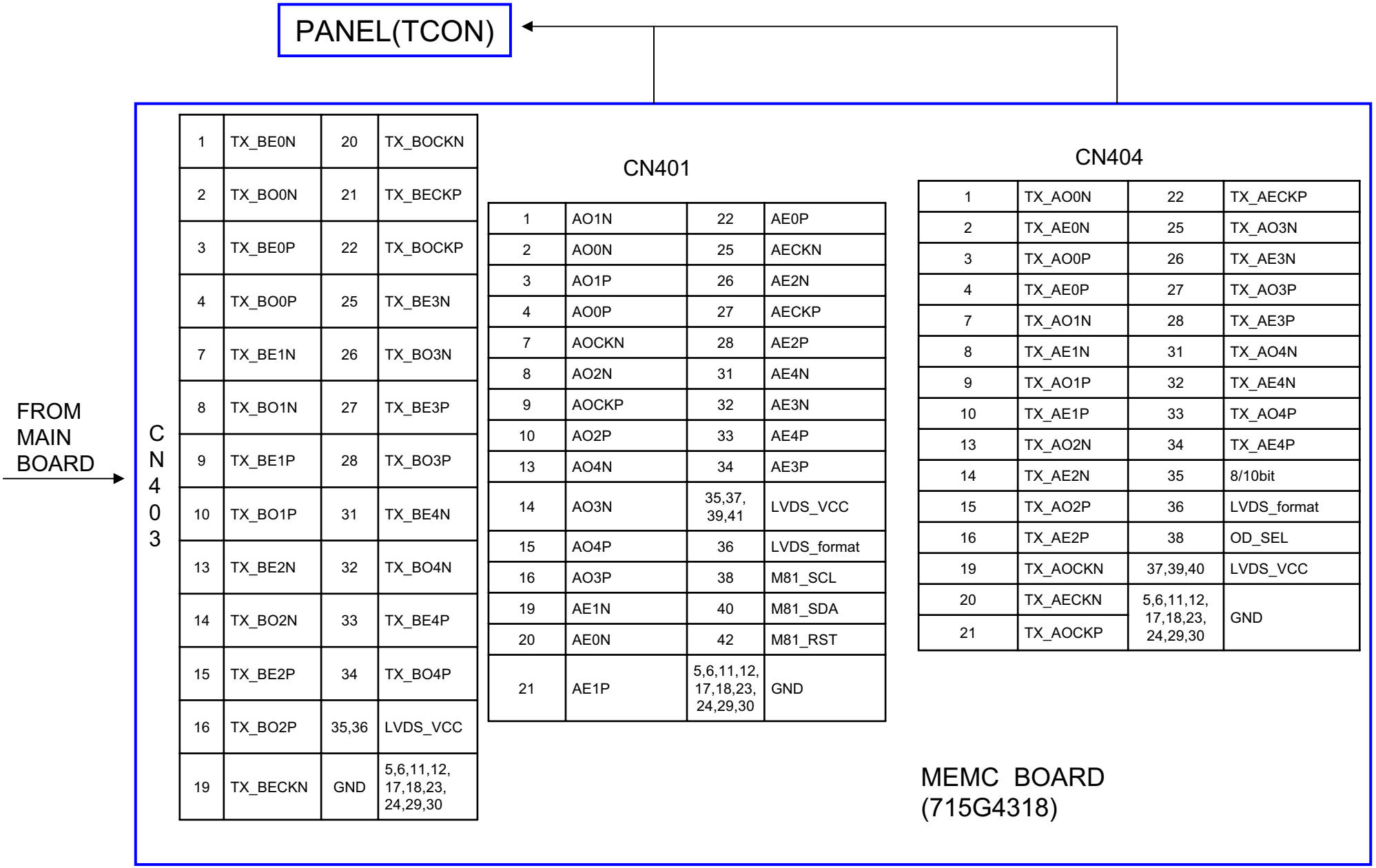
10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.




LCD PANEL
T-COM Board
30P or 51P/1.25mm
36P AND 40P/1.25mm
CN401
CN403
MEMC
CN404
FOR 42"
FOR 26"/32"
CN903
CN902
CN701
CN128
CN408
14P/2.0mm
Inverter Board
Power Board
Main Board
CN401
POWER
CH+
CH-
VOL+
VOL-
MENU
SOURCE
TUCH KEY
CN100
SPEAKER
SPEAKER
CN001
FOR 26"/32"
FOR 42"
IR/LED
CN201
LED
CN301
CN201
IR


TU101
Tuner
ENV57S01D8F
IFT P/N
IFS P/N
IFC P/N
U610
DVB-C
Si2163
TS IN
PCMCIA
DATA/ADDR
IF P/N TV
TS In
TS Out
To Panel
For 26"/32"
For 42" FHD
U401
MT8282AGG
U405
DDR2
32MB x 16
U402/U403
DDR2
32MB x 16
U405
16MB NAND Flash
I/O 0_7
Side I/O
CVBS
USB
HDMI3
CVBS2
USB P/M
U401
SCALER
MT5363
BGA522
FOR 42"
KEYPAD
IR
LED
KEYPAD/IR
BOARD
HDMI1
HDMI2
HDMI4
ONLY 42"
U128
HDMI SW
Sil9187
Tx 0-2, Txc
Rx In
OSCL0
OSDA0
U609
EEPROM
M24C32
ORESET#
U410
Reset
MAX809ST
KEYPAD
IR
LED
KEYPAD/IR
BOARD
FOR 26/32"
SCART1
Full In/TV out
CVBS3
YPbPr0
VDAC_Out2
SCART2
Half In/Monitor out
SY1/SC1
VDAC_Out2
SY0/SC0
ASPDIF
SPDIF
Optical
VGA
RGB/HV
U402
EEPROM
M24C02
AL0
AR0
SCART1_Out_L/R
U604
Line Driver
DRV602
SCART1 L/R
SCART1
Audio OUT
Component
YPbPr1
AL2
AR2
HP_Out_L/R
U606
HP AMP
TPA6132
HP_Out_LT/RT
Side I/O
Head Phone
SCART1/2 Audio
Component Audio
Side AV Audio
VGA/HDMI Audio
AIN3/4
AIN0/1
AIN2
AIN6
AIN5
AL3
AR3
SPK_Out_L/R
U602
Sound AMP
TPA3110/3
26"
5W / 16 Ohm
32"//42"
10W / 16 Ohm
AL1
AR1
SCART2_Out_L/R
U605
Line Driver
DRV602
SCART2 L/R
SCART2
Audio OUT

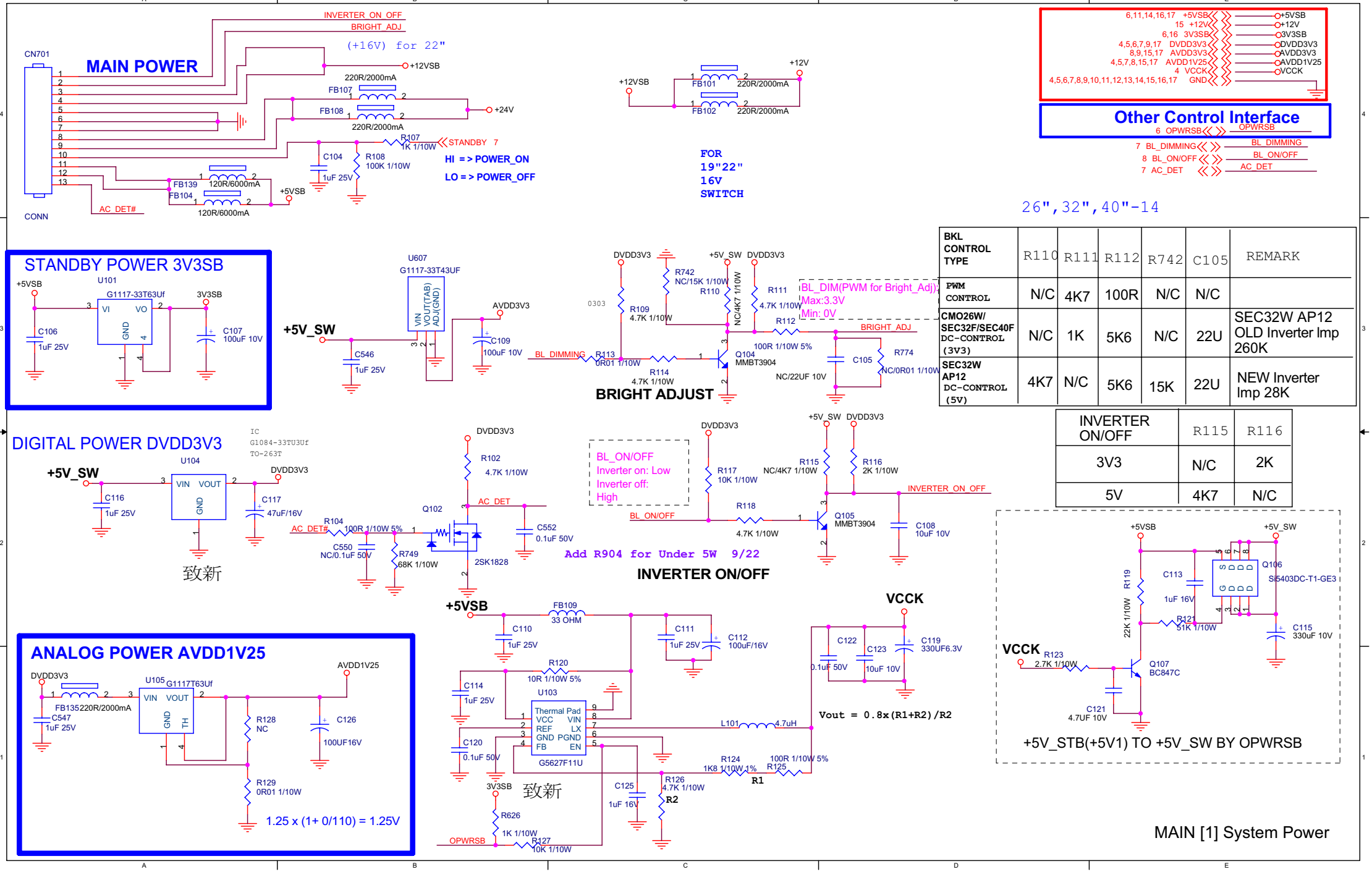

PANEL(TCON)
FOR 26”/32”
FOR 42”
CN401
CN404
CN403
MEMC BOARD
PANEL_INTEVER
CN903
CN902
1 +24V
2 +24V
3 +24V
4 +24V
5 +24V
6 GND
7 GND
8 GND
9 GND
10 GND
11 NC
12 DET
13 ON/OFF
14 DIM
1 ON/OFF
2 NC
3 DIM
4 +12V
5 +12V
6 GND
7 GND
8 GND
9 NC
10 NC
11 PS_ON
12 +5V
13 +5V
14 ACD
POWER BOARD (26”,32”:
715G4302 42” :715G4307)
CN901
AC socket
CN401
1 GND
2 LED-EPG-RED
3 LED-EPG-GREEN
4 LED-POWER-RED
5 LED-POWER-GREEN
6 +3V3SB
7 GND
8 OIRI
9 Light Sensor
10 +3V3SB
11 GND
12 KEY_UP_DN_DCSW
13 KEY_MENU_L_R_SOURCE
14 GND
CN701
1 INVERTER_ON_OFF
2 BRIGHT_ADJ
3 + 12V
4 + 12V
5 GND
6 GND
7 GND
8 + 24V
9 + 24V
10 STANDBY
11 +5VSB
12 +5VSB
13 AC_DET
CN408
1,2,3,4 Panel_12V
6 LVDS_format
7 E4P
8 O4P
9 E4N
10 O4N
13 E3P
14 O3P
15 E3N
16 O3N
19 ECKP
20 OCKP
21 ECKN
22 OCKN
25 E2P
26 O2P
25 E2P
26 O2P
27 E2N
28 O2N
31 E1P
32 O1P
33 E1N
34 O1N
37 E0P
38 O0P
39 E0N
40 O0N
43 MEMC_RESET#
44 HDMI_SW_SDA
46 HDMI_SW_SCL
48,49,50 12V
5,45,47 NC
11,12,17,18,23,24,29,30,35,36,41,42 GND
CN128
1 GND
2 SP_RP
3 GND
4 SP_LP
MAIN BOARD (715G4357)
1 KEY1
2 KEY2
3 GND
CN001
KEYBOARD(715G4326)
FOR 26”/32”
FOR 42”
1 LED-EPG-green
2 LED-EPG-yellow
3 LED-time-green
4 LED-power-off
5 LED-power-on
6 DV33SB
7 GND
8 RC6
9 LIGHT_SENSOR
CN201
IRBOARD(715G4327)
CN100
1 key1
2 key2
3 +3V3_LED
4 Green_LED1
5 Green_LED2
6 LED_POWER_OFF
7 GND
KEYBOARD(715G4518)
FOR 42”
CN201
1 DV33SB
2 RC6
3,5 GND
4 LIGHT_SENSOR
IRBOARD(715G4550)
CN301
1 LED_EPG_YELLOW
2 LED_EPG_GREEN
3 LED_TIME_GREEN
4 DV33SB
5,6 GND
LED BOARD(715G3731)
R SPEAKER(2PIN)
L SPEAKER(2PIN)



1	TX_BE0N	20	TX_BOCKN
2	TX_BO0N	21	TX_BECKP
3	TX_BE0P	22	TX_BOCKP
4	TX_BO0P	25	TX_BE3N
7	TX_BE1N	26	TX_BO3N
8	TX_BO1N	27	TX_BE3P
9	TX_BE1P	28	TX_BO3P
10	TX_BO1P	31	TX_BE4N
13	TX_BE2N	32	TX_BO4N
14	TX_BO2N	33	TX_BE4P
15	TX_BE2P	34	TX_BO4P
16	TX_BO2P	35,36	LVDS_VCC
19	TX_BECKN	GND	5,6,11,12, 17,18,23, 24,29,30

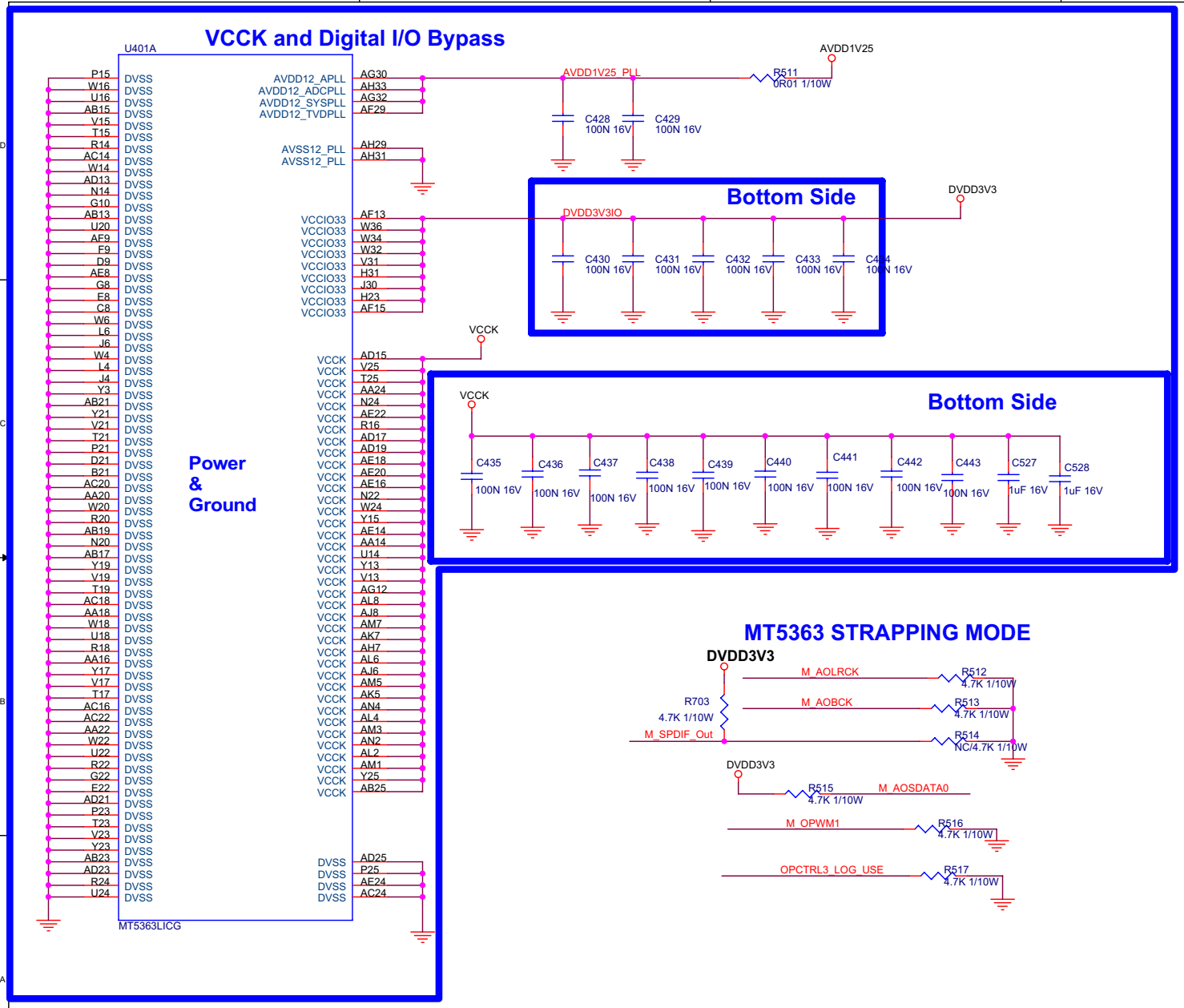
1	AO1N	22	AE0P
2	AO0N	25	AECKN
3	AO1P	26	AE2N
4	AO0P	27	AECKP
7	AOCKN	28	AE2P
8	AO2N	31	AE4N
9	AOCKP	32	AE3N
10	AO2P	33	AE4P
13	AO4N	34	AE3P
14	AO3N	35,37, 39,41	LVDS_VCC
15	AO4P	36	LVDS_format
16	AO3P	38	M81_SCL
19	AE1N	40	M81_SDA
20	AE0N	42	M81_RST
21	AE1P	5,6,11,12, 17,18,23, 24,29,30	GND

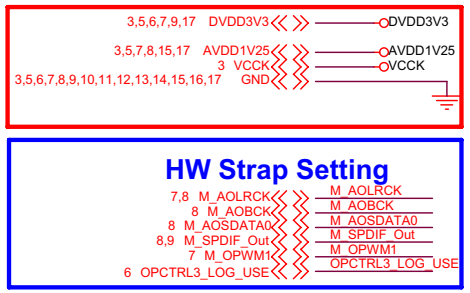
1	TX_AO0N	22	TX_AECKP
2	TX_AE0N	25	TX_AO3N
3	TX_AO0P	26	TX_AE3N
4	TX_AE0P	27	TX_AO3P
7	TX_AO1N	28	TX_AE3P
8	TX_AE1N	31	TX_AO4N
9	TX_AO1P	32	TX_AE4N
10	TX_AE1P	33	TX_AO4P
13	TX_AO2N	34	TX_AE4P
14	TX_AE2N	35	8/10bit
15	TX_AO2P	36	LVDS_format
16	TX_AE2P	38	OD_SEL
19	TX_AOCKN	37,39,40	LVDS_VCC
20	TX_AECKN	5,6,11,12, 17,18,23, 24,29,30	GND
21	TX_AOCKP		



BKL CONTROL TYPE	R110	R111	R112	R742	C105	REMARK
PWM CONTROL	N/C	4K7	100R	N/C	N/C	
CMO26W/ SEC32F/SEC40F DC-CONTROL (3V3)	N/C	1K	5K6	N/C	22U	SEC32W AP12 OLD Inverter Imp 260K
SEC32W AP12 DC-CONTROL (5V)	4K7	N/C	5K6	15K	22U	NEW Inverter Imp 28K

INVERTER ON/OFF	R115	R116
3V3	N/C	2K
5V	4K7	N/C

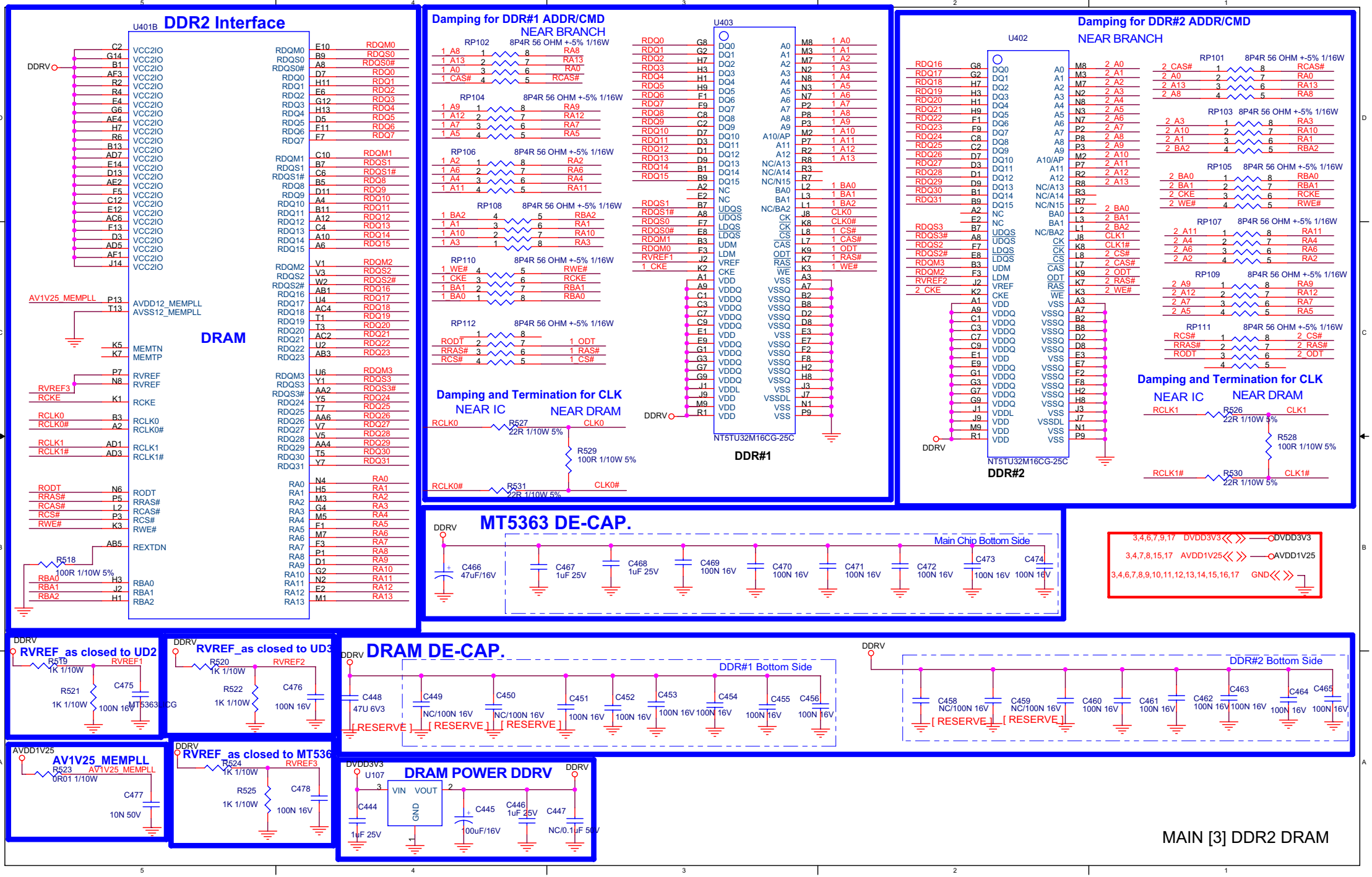


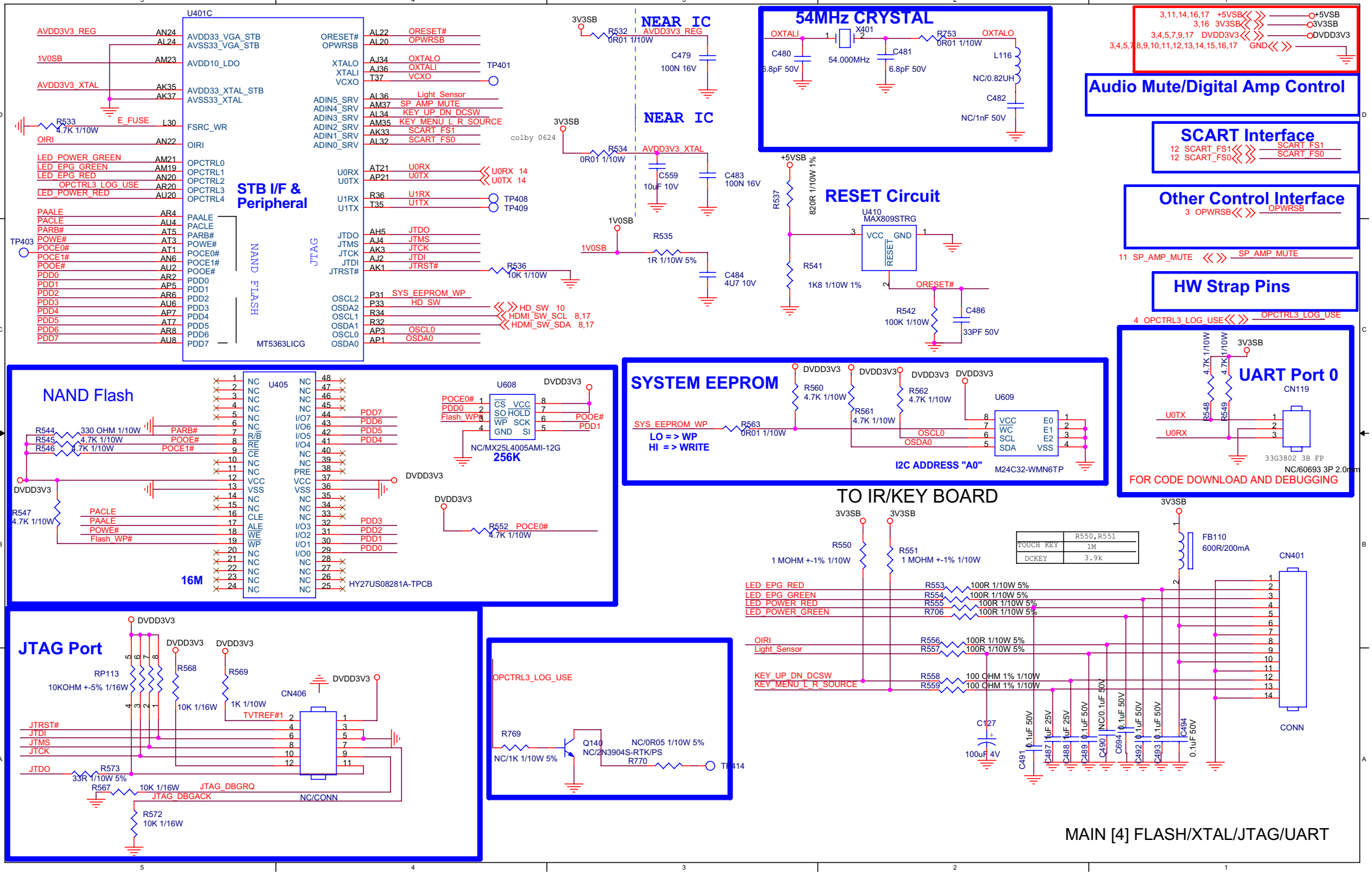


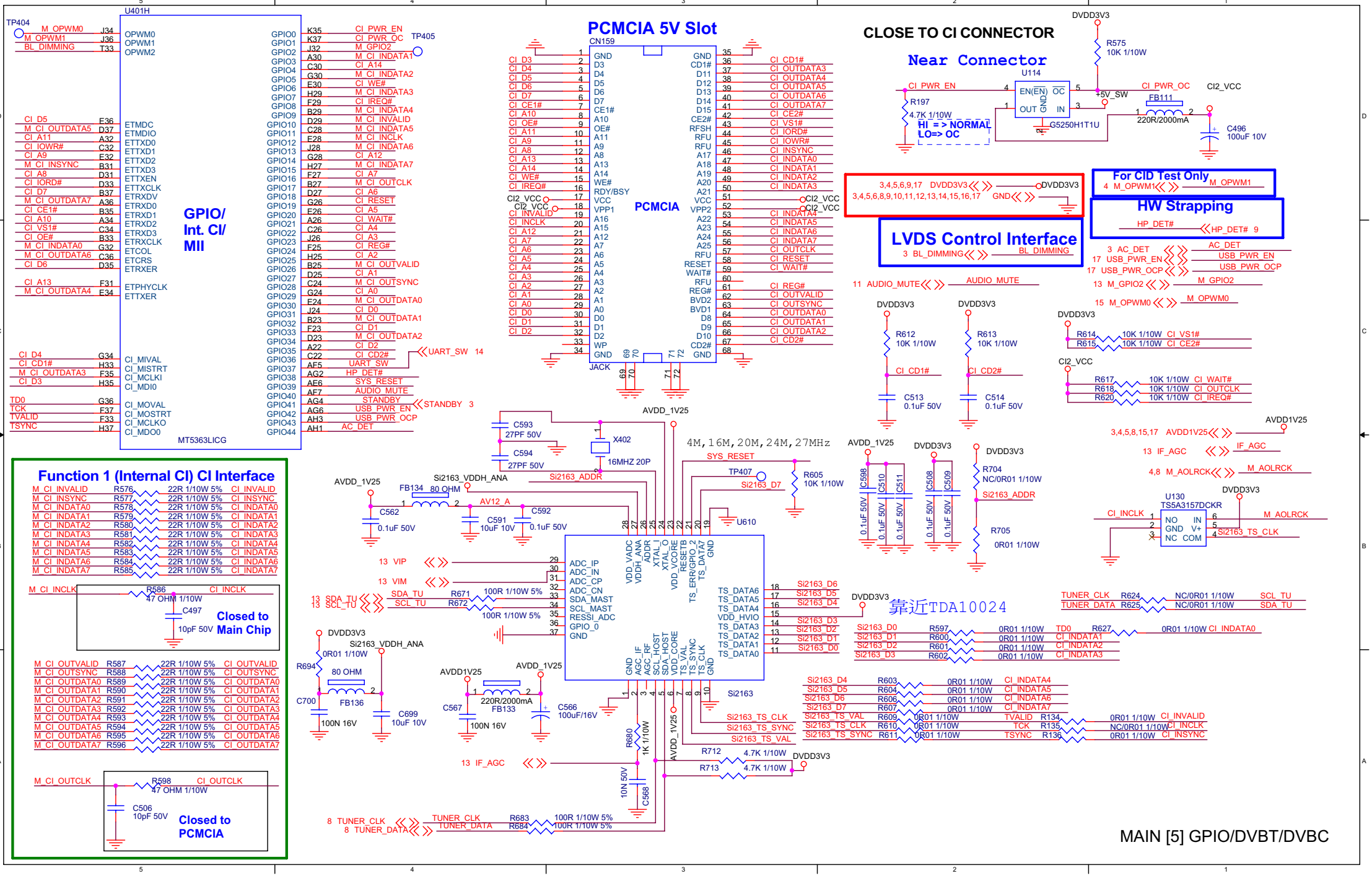
Strapping	AOLRCK	AOBCK	ASPDIF
ICE mode + serial boot	0	0	0
ICE mode + ROM boot	0	0	1
CPU model mode	0	1	1
Scan mode	1	0	0
OLT mode	1	0	1
Boundary scan mode	1	1	0

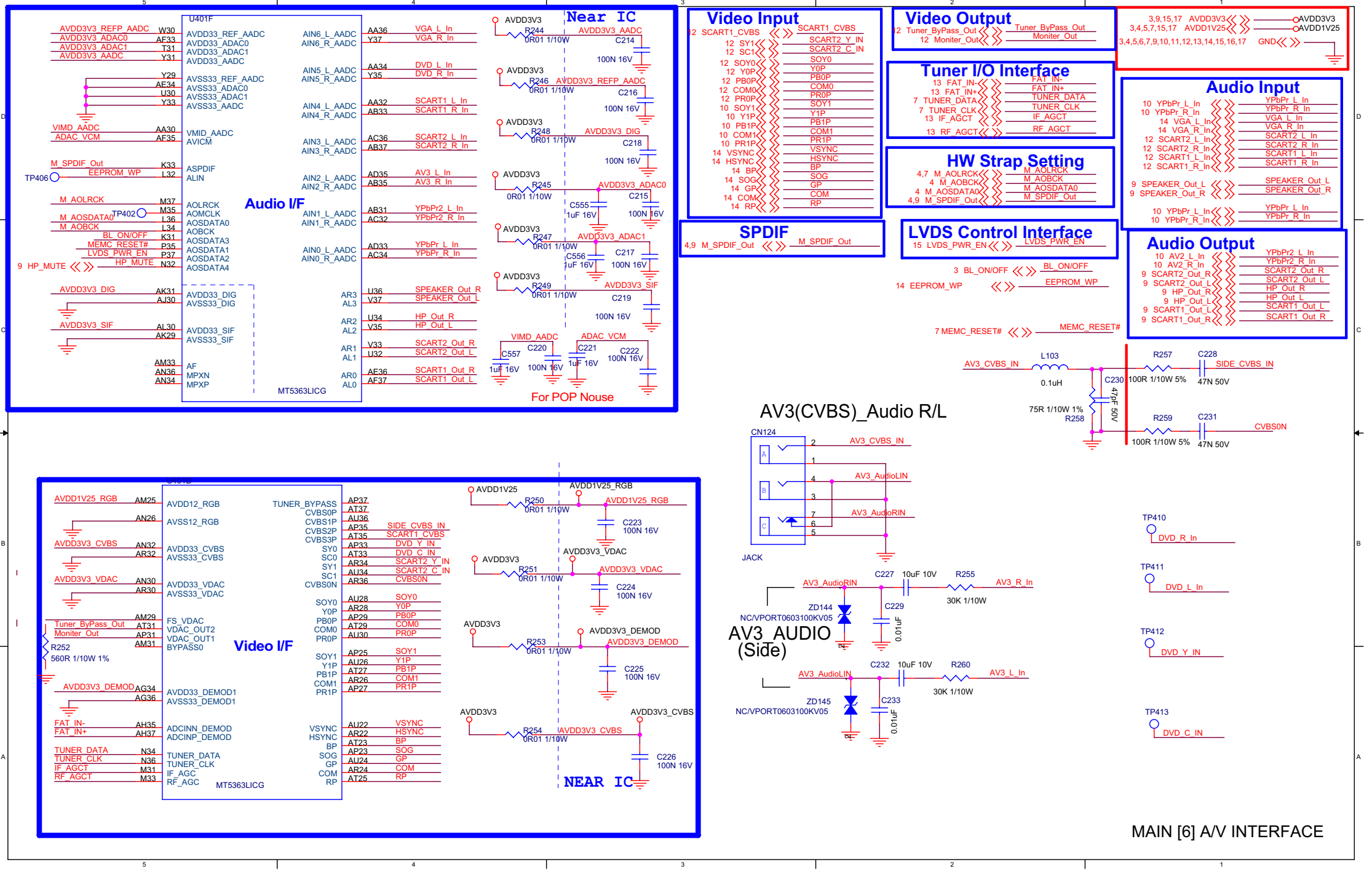
Strapping	AOSDATA0	OPWM1
XTAL 27M + MT8225	1	1
XTAL 54M	1	0
XTAL 60M	0	1
XTAL 27M	0	0

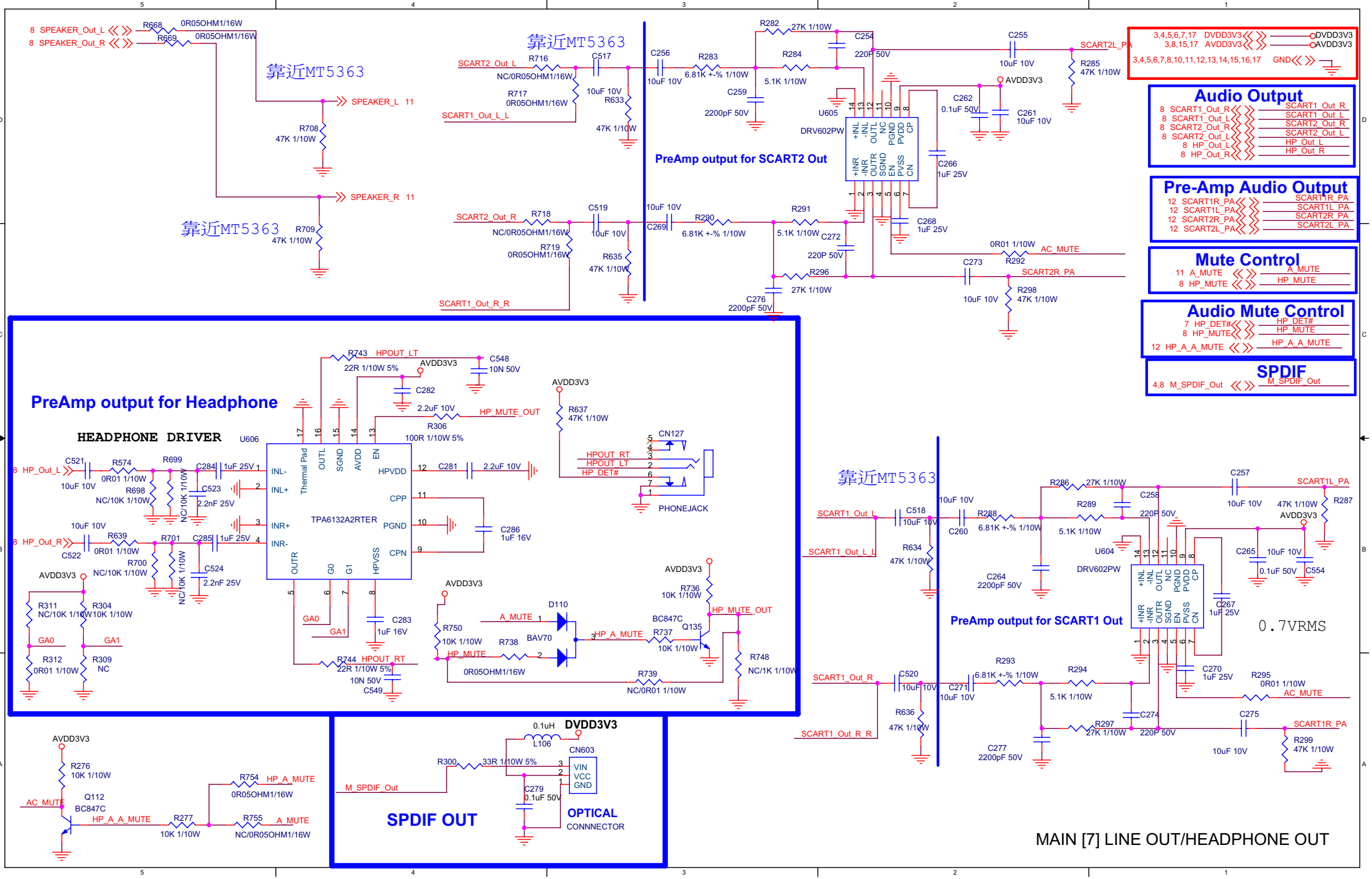
Strapping	OPCTRL3(0)
PDWNC Normal	0
PDWNC SCAN	1

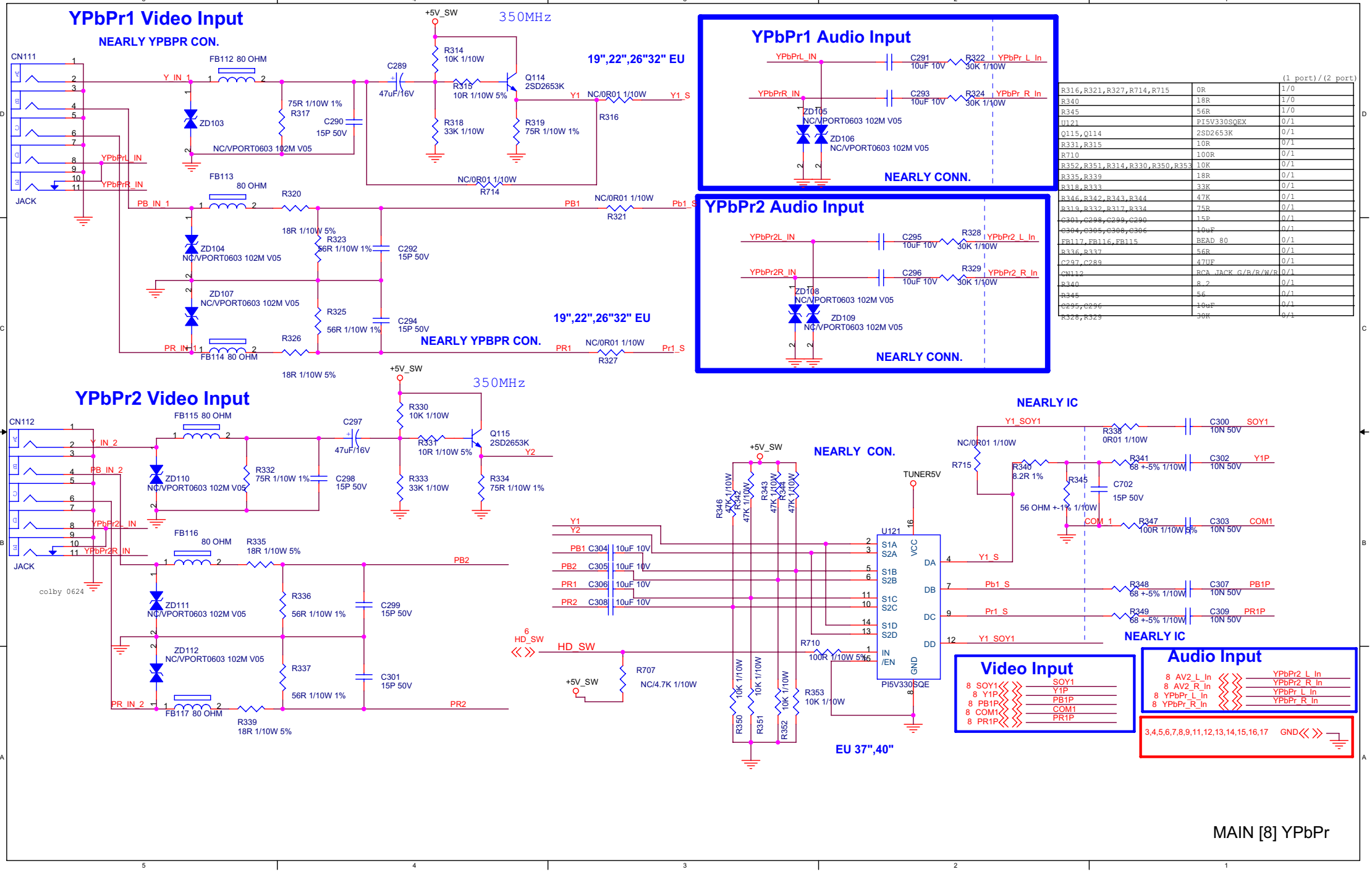

DDR2 Interface
U401B
DRAM
DDRV
AV1V25_MEMPLL
AVDD12_MEMPLL
AVSS12_MEMPLL
MEMTN
MEMTP
RVREF
RCKE
RCLK0
RCLK0#
RCLK1
RCLK1#
RODT
RRAS#
RCAS#
RCS#
RWE#
REXTDN
R518
100R 1/10W 5%
RBA0
RBA1
RBA2
Damping for DDR#1 ADDR/CMD
NEAR BRANCH
RP102 8P4R 56 OHM +-5% 1/16W
RP104 8P4R 56 OHM +-5% 1/16W
RP106 8P4R 56 OHM +-5% 1/16W
RP108 8P4R 56 OHM +-5% 1/16W
RP110 8P4R 56 OHM +-5% 1/16W
RP112 8P4R 56 OHM +-5% 1/16W
Damping and Termination for CLK
NEAR IC
NEAR DRAM
R527 22R 1/10W 5%
R529 100R 1/10W 5%
R531 22R 1/10W 5%
U403
NT5TU32M16CG-25C
DDR#1
Damping for DDR#2 ADDR/CMD
NEAR BRANCH
U402
RP101 8P4R 56 OHM +-5% 1/16W
RP103 8P4R 56 OHM +-5% 1/16W
RP105 8P4R 56 OHM +-5% 1/16W
RP107 8P4R 56 OHM +-5% 1/16W
RP109 8P4R 56 OHM +-5% 1/16W
RP111 8P4R 56 OHM +-5% 1/16W
Damping and Termination for CLK
NEAR IC
NEAR DRAM
R526 22R 1/10W 5%
R528 100R 1/10W 5%
R530 22R 1/10W 5%
NT5TU32M16CG-25C
DDR#2
MT5363 DE-CAP.
Main Chip Bottom Side
C466 47uF/16V
C467 1uF 25V
C468 1uF 25V
C469 100N 16V
C470 100N 16V
C471 100N 16V
C472 100N 16V
C473 100N 16V
C474 100N 16V
3,4,6,7,9,17 DVDD3V3
3,4,7,8,15,17 AVDD1V25
3,4,6,7,8,9,10,11,12,13,14,15,16,17 GND
RVREF_as closed to UD2
R519 1K 1/10W
R521 1K 1/10W
C475 100N 16V
RVREF_as closed to UD3
R520 1K 1/10W
R522 1K 1/10W
C476 100N 16V
AV1V25_MEMPLL
R523 0R01 1/10W
C477 10N 50V
RVREF_as closed to MT536
R524 1K 1/10W
R525 1K 1/10W
C478 100N 16V
DRAM DE-CAP.
DDR#1 Bottom Side
C448 47U 6V3
C449 NC/100N 16V
C450 NC/100N 16V
C451 100N 16V
C452 100N 16V
C453 100N 16V
C454 100N 16V
C455 100N 16V
C456 100N 16V
[RESERVE]
DDR#2 Bottom Side
C458 NC/100N 16V
C459 NC/100N 16V
C460 100N 16V
C461 100N 16V
C462 100N 16V
C463 100N 16V
C464 100N 16V
C465 100N 16V
DRAM POWER DDRV
U107
VIN
VOUT
GND
C444 1uF 25V
C445 100uF/16V
C446 1uF 25V
C447 NC/0.1uF 50V
MAIN [3] DDR2 DRAM


U401C
STB I/F & Peripheral
MT5363LICG
NAND FLASH
JTAG
AVDD3V3_REG
1V0SB
AVDD3V3_XTAL
E_FUSE
R533 4.7K 1/10W
OIRI
LED_POWER_GREEN
LED_EPG_GREEN
LED_EPG_RED
OPCTRL3_LOG_USE
LED_POWER_RED
PAALE
PACLE
PARB#
POWE#
POCE0#
POCE1#
POOE#
PDD0
PDD1
PDD2
PDD3
PDD4
PDD5
PDD6
PDD7
TP403
ORESET#
OPWRSB
OXTALO
OXTALI
VCXO
TP401
Light_Sensor
SP_AMP_MUTE
KEY_UP_DN_DCSW
KEY_MENU_L_R_SOURCE
SCART_FS1
SCART_FS0
U0RX
U0TX
U1RX
U1TX
TP408
TP409
JTDO
JTMS
JTCK
JTDI
JTRST#
R536 10K 1/10W
SYS_EEPROM_WP
HD_SW
HDMI_SW_SCL 8,17
HDMI_SW_SDA 8,17
OSCL2
OSDA2
OSCL1
OSDA1
OSCL0
OSDA0
NEAR IC
R532 0R01 1/10W
C479 100N 16V
R534 0R01 1/10W
C559 10uF 10V
C483 100N 16V
R535 1R 1/10W 5%
C484 4U7 10V
colby 0624
54MHz CRYSTAL
X401
C480 6.8pF 50V
54.000MHz
C481 6.8pF 50V
R753 0R01 1/10W
L116 NC/0.82UH
C482 NC/1nF 50V
RESET Circuit
U410 MAX809STRG
R537 820R 1/10W 1%
R541 1K8 1/10W 1%
R542 100K 1/10W
C486 33PF 50V
+5VSB
3,11,14,16,17 +5VSB
3,16 3V3SB
3,4,5,7,9,17 DVDD3V3
3,4,5,7,8,9,10,11,12,13,14,15,16,17 GND
Audio Mute/Digital Amp Control
SCART Interface
12 SCART_FS1
12 SCART_FS0
Other Control Interface
3 OPWRSB
11 SP_AMP_MUTE
HW Strap Pins
4 OPCTRL3_LOG_USE
UART Port 0
CN119
U0TX
U0RX
R548 4.7K 1/10W
R549 4.7K 1/10W
33G3802 3B FP
NC/60693 3P 2.0mm
FOR CODE DOWNLOAD AND DEBUGGING
NAND Flash
U405
R544 330 OHM 1/10W
R545 4.7K 1/10W
R546 4.7K 1/10W
R547 4.7K 1/10W
16M
HY27US08281A-TPCB
U608
NC/MX25L4005AMI-12G
256K
R552 POCE0# 4.7K 1/10W
SYSTEM EEPROM
SYS_EEPROM_WP
LO = > WP
HI = > WRITE
R560 4.7K 1/10W
R561 4.7K 1/10W
R562 4.7K 1/10W
R563 0R01 1/10W
U609
M24C32-WMN6TP
I2C ADDRESS "A0"
TO IR/KEY BOARD
R550 1 MOHM +-1% 1/10W
R551 1 MOHM +-1% 1/10W
TOUCH_KEY 1M
DCKEY 3.9k
FB110 600R/200mA
CN401
CONN
LED_EPG_RED
LED_EPG_GREEN
LED_POWER_RED
LED_POWER_GREEN
Light_Sensor
KEY_UP_DN_DCSW
KEY_MENU_L_R_SOURCE
R553 100R 1/10W 5%
R554 100R 1/10W 5%
R555 100R 1/10W 5%
R706 100R 1/10W 5%
R556 100R 1/10W 5%
R557 100R 1/10W 5%
R558 100 OHM 1% 1/10W
R559 100 OHM 1% 1/10W
C127 100uF 4V
JTAG Port
RP113 10KOHM +-5% 1/16W
R568 10K 1/16W
R569 1K 1/10W
CN406
TVTREF#1
R573 33R 1/10W 5%
R567 10K 1/16W
JTAG_DBGRQ
JTAG_DBGACK
NC/CONN
R572 10K 1/16W
OPCTRL3_LOG_USE
R769 NC/1K 1/10W 5%
Q140 NC/2N3904S-RTK/PS
NC/0R05 1/10W 5%
R770
TP414
MAIN [4] FLASH/XTAL/JTAG/UART


PCMCIA 5V Slot
CLOSE TO CI CONNECTOR
Near Connector
GPIO/
Int. CI/
MII
PCMCIA
LVDS Control Interface
For CID Test Only
HW Strapping
Function 1 (Internal CI) CI Interface
Closed to
Main Chip
Closed to
PCMCIA
靠近TDA10024
MAIN [5] GPIO/DVBT/DVBC


Audio I/F
U401F
MT5363LICG
Near IC
For POP Nouse
Video I/F
MT5363LICG
NEAR IC
Video Input
Video Output
Tuner I/O Interface
HW Strap Setting
SPDIF
LVDS Control Interface
Audio Input
Audio Output
AV3(CVBS)_Audio R/L
AV3_AUDIO (Side)
JACK
MAIN [6] A/V INTERFACE

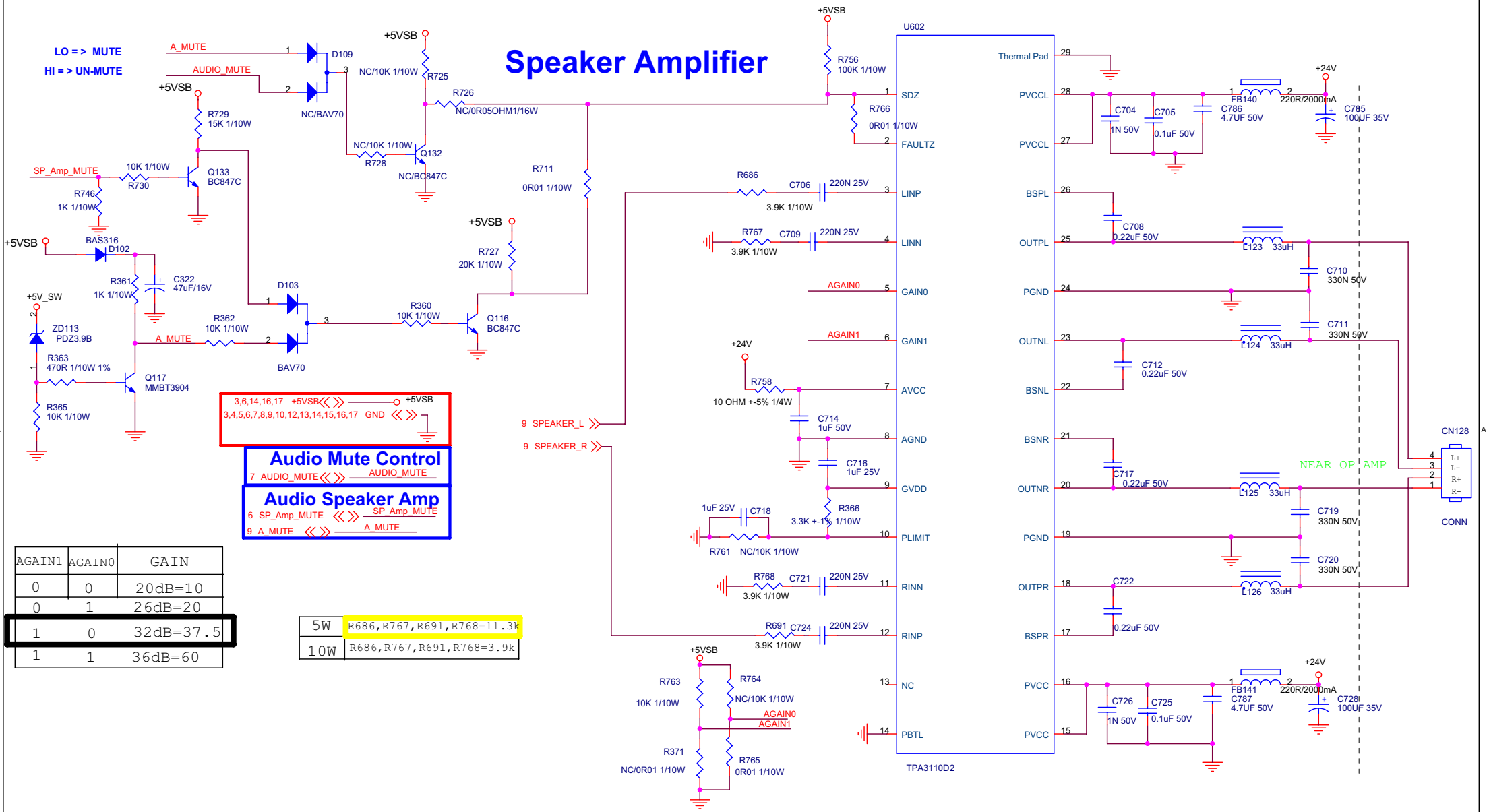

8 SPEAKER_Out_L
8 SPEAKER_Out_R
R668 0R05OHM1/16W
R669 0R05OHM1/16W
靠近MT5363
SPEAKER_L 11
R708 47K 1/10W
SPEAKER_R 11
R709 47K 1/10W
SCART2_Out_L
R716 NC/0R05OHM1/16W
C517 10uF 10V
R717 0R05OHM1/16W
SCART1_Out_L_L
R633 47K 1/10W
C256 10uF 10V
R283 6.81K +-% 1/10W
C259 2200pF 50V
R282 27K 1/10W
R284 5.1K 1/10W
C254 220P 50V
U605
DRV602PW
PreAmp output for SCART2 Out
C255 10uF 10V
SCART2L_PA
R285 47K 1/10W
C262 0.1uF 50V
C261 10uF 10V
AVDD3V3
C266 1uF 25V
C268 1uF 25V
SCART2_Out_R
R718 NC/0R05OHM1/16W
C519 10uF 10V
R719 0R05OHM1/16W
R635 47K 1/10W
SCART1_Out_R_R
C269 10uF 10V
R290 6.81K +-% 1/10W
R291 5.1K 1/10W
C272 220P 50V
R296 27K 1/10W
C276 2200pF 50V
0R01 1/10W
R292
AC_MUTE
C273 10uF 10V
SCART2R_PA
R298 47K 1/10W
3,4,5,6,7,17 DVDD3V3
3,8,15,17 AVDD3V3
3,4,5,6,7,8,10,11,12,13,14,15,16,17 GND
DVDD3V3
AVDD3V3
Audio Output
8 SCART1_Out_R
8 SCART1_Out_L
8 SCART2_Out_R
8 SCART2_Out_L
8 HP_Out_L
8 HP_Out_R
SCART1_Out_R
SCART1_Out_L
SCART2_Out_R
SCART2_Out_L
HP_Out_L
HP_Out_R
Pre-Amp Audio Output
12 SCART1R_PA
12 SCART1L_PA
12 SCART2R_PA
12 SCART2L_PA
SCART1R_PA
SCART1L_PA
SCART2R_PA
SCART2L_PA
Mute Control
11 A_MUTE
8 HP_MUTE
A_MUTE
HP_MUTE
Audio Mute Control
7 HP_DET#
8 HP_MUTE
12 HP_A_A_MUTE
HP_DET#
HP_MUTE
HP_A_A_MUTE
SPDIF
4,8 M_SPDIF_Out
M_SPDIF_Out
PreAmp output for Headphone
HEADPHONE DRIVER
U606
TPA6132A2RTER
Thermal Pad
OUTL
SGND
AVDD
EN
HPVDD
CPP
PGND
CPN
OUTR
HPVSS
G0
G1
INL-
INL+
INR+
INR-
8 HP_Out_L
8 HP_Out_R
C521 10uF 10V
R574 0R01 1/10W
R698 NC/10K 1/10W
R699 NC/10K 1/10W
C284 1uF 25V
C523 2.2nF 25V
C522 10uF 10V
R639 0R01 1/10W
R700 NC/10K 1/10W
R701 NC/10K 1/10W
C285 1uF 25V
C524 2.2nF 25V
R743 HPOUT_LT
22R 1/10W 5%
C548 10N 50V
C282 2.2uF 10V
HP_MUTE_OUT
R306 100R 1/10W 5%
C281 2.2uF 10V
C286 1uF 16V
R744 HPOUT_RT
22R 1/10W 5%
C549 10N 50V
C283 1uF 16V
GA0
GA1
AVDD3V3
R637 47K 1/10W
CN127
HPOUT_RT
HPOUT_LT
HP_DET#
PHONEJACK
R311 NC/10K 1/10W
R304 10K 1/10W
R312 0R01 1/10W
R309 NC
R750 10K 1/10W
A_MUTE
D110
BAV70
R738
HP_MUTE
0R05OHM1/16W
HP_A_MUTE
R736 10K 1/10W
BC847C
Q135
R737 10K 1/10W
HP_MUTE_OUT
R748 NC/1K 1/10W
R739 NC/0R01 1/10W
靠近MT5363
SCART1_Out_L
SCART1_Out_L_L
C518 10uF 10V
C260
R634 47K 1/10W
R288 6.81K +-% 1/10W
R289 5.1K 1/10W
C258 220P 50V
C264 2200pF 50V
U604
DRV602PW
PreAmp output for SCART1 Out
C257 10uF 10V
SCART1L_PA
R287 47K 1/10W
AVDD3V3
C265 10uF 10V
0.1uF 50V
C554
C267 1uF 25V
0.7VRMS
SCART1_Out_R
SCART1_Out_R_R
C520 10uF 10V
C271 10uF 10V
R636 47K 1/10W
R293 6.81K +-% 1/10W
R294 5.1K 1/10W
C270 1uF 25V
R295 0R01 1/10W
AC_MUTE
C274
R297 27K 1/10W
C277 2200pF 50V
220P 50V
C275 10uF 10V
SCART1R_PA
R299 47K 1/10W
AVDD3V3
R276 10K 1/10W
AC_MUTE
Q112
BC847C
HP_A_A_MUTE
R277 10K 1/10W
R754 HP_A_MUTE
0R05OHM1/16W
R755 A_MUTE
NC/0R05OHM1/16W
SPDIF OUT
M_SPDIF_Out
R300 33R 1/10W 5%
0.1uH
L106
DVDD3V3
CN603
VIN
VCC
GND
C279 0.1uF 50V
OPTICAL
CONNNECTOR
MAIN [7] LINE OUT/HEADPHONE OUT



		(1 port)/(2 port)
R316,R321,R327,R714,R715	0R	1/0
R340	18R	1/0
R345	56R	1/0
U121	PI5V330SQEX	0/1
Q115,Q114	2SD2653K	0/1
R331,R315	10R	0/1
R710	100R	0/1
R352,R351,R314,R330,R350,R353	10K	0/1
R335,R339	18R	0/1
R318,R333	33K	0/1
R346,R342,R343,R344	47K	0/1
R319,R332,R317,R334	75R	0/1
C301,C298,C299,C290	15P	0/1
C304,C305,C308,C306	10uF	0/1
FB117,FB116,FB115	BEAD 80	0/1
R336,R337	56R	0/1
C297,C289	47UF	0/1
CN112	RCA JACK G/B/R/W/R	0/1
R340	8.2	0/1
R345	56	0/1
C295,C296	10uF	0/1
R328,R329	30K	0/1

MAIN [8] YPbPr

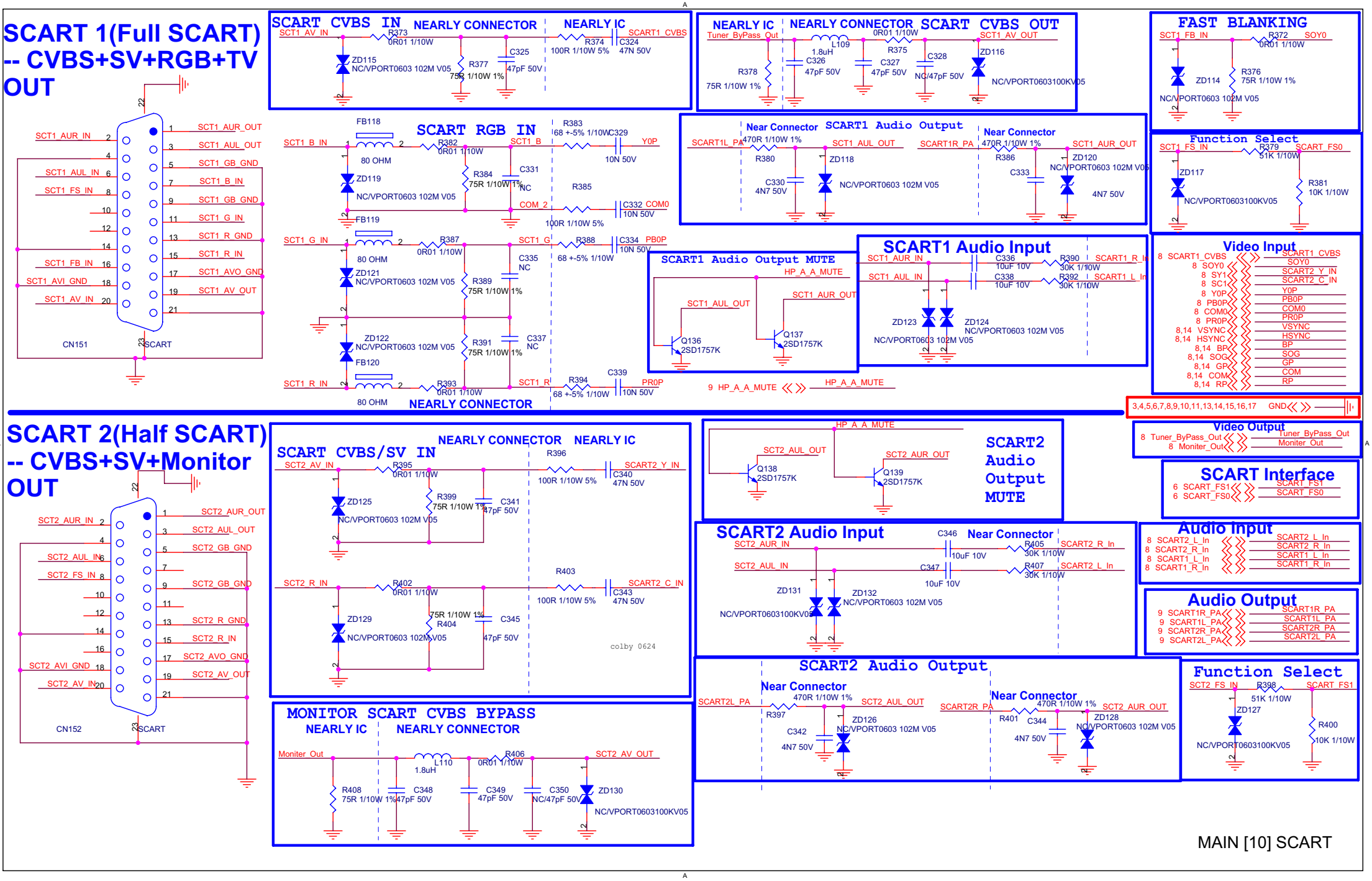
Speaker Amplifier

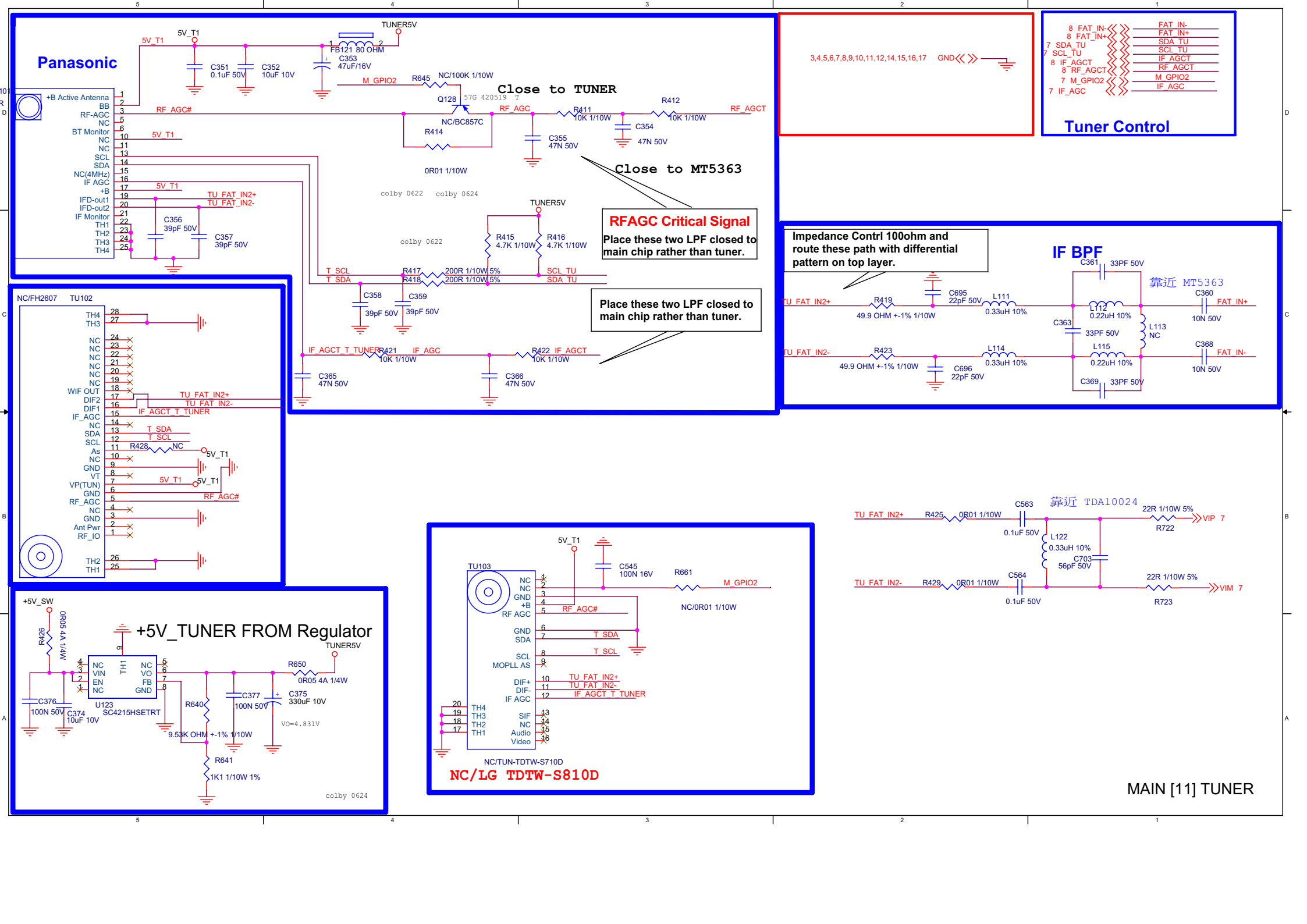


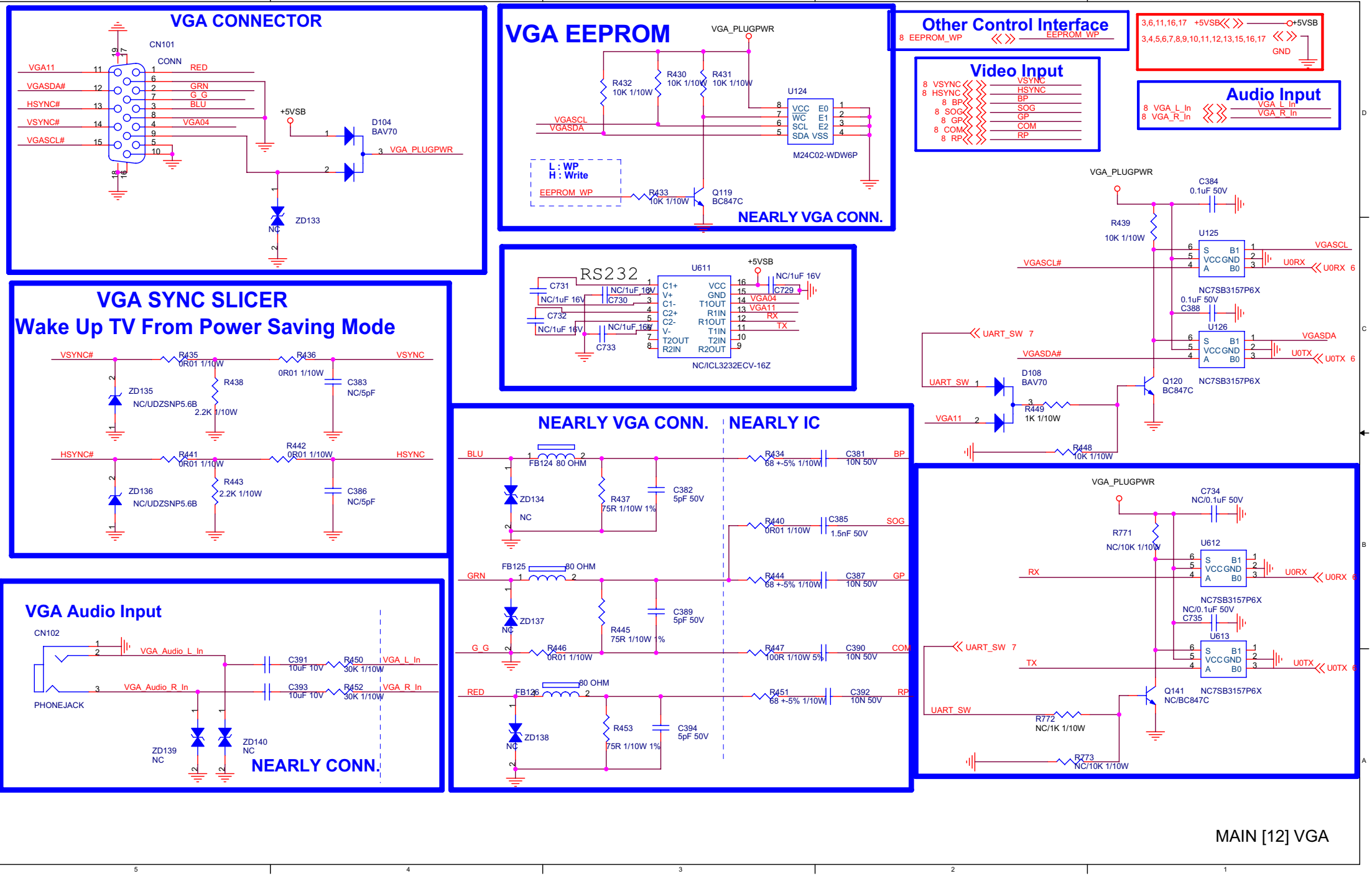
AGAIN1	AGAIN0	GAIN
0	0	20dB=10
0	1	26dB=20
1	0	32dB=37.5
1	1	36dB=60

5W	R686,R767,R691,R768=11.3k
10W	R686,R767,R691,R768=3.9k

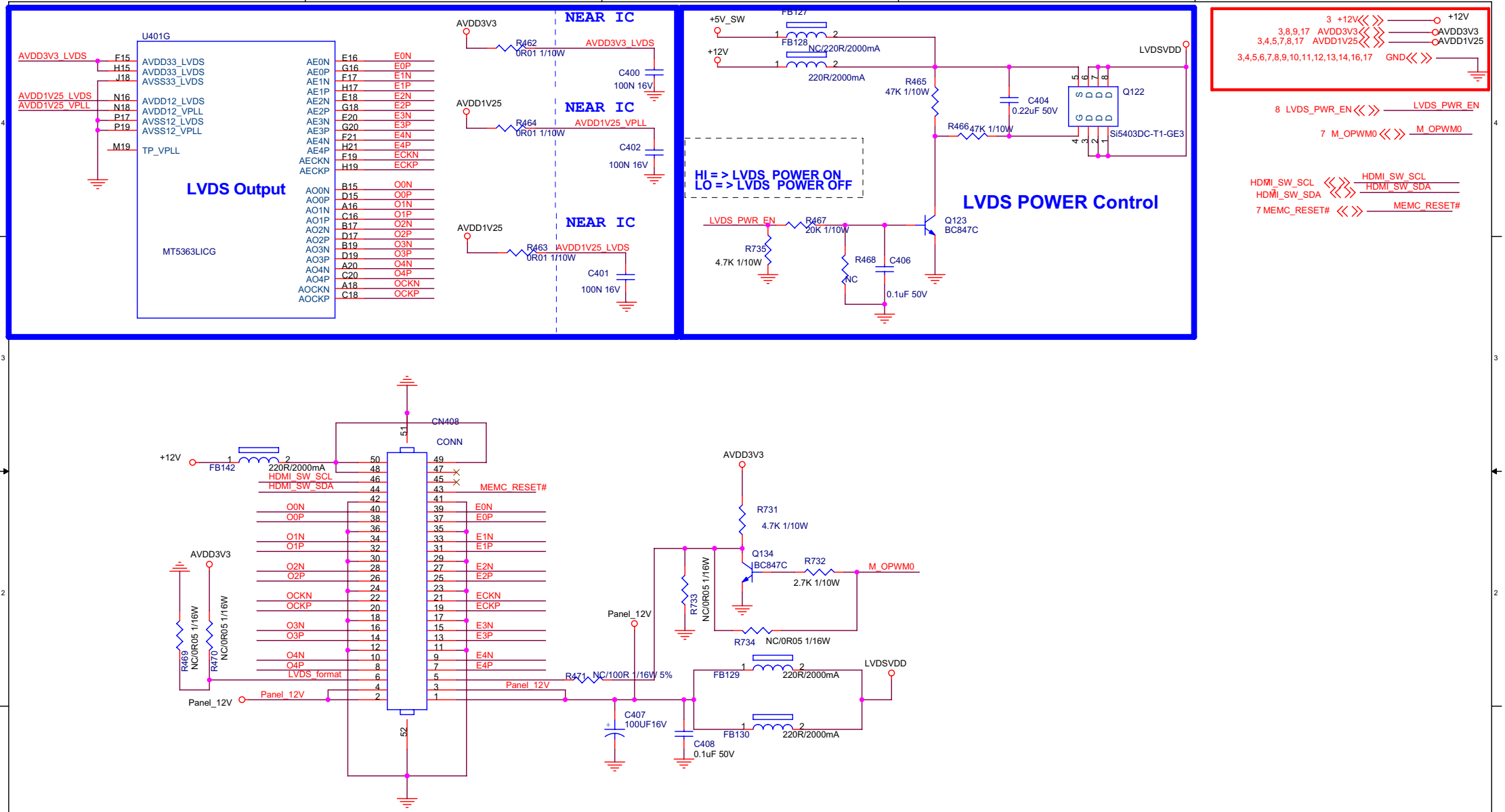
MAIN [9] MUTE/SPEAKER/AMP


SCART 1(Full SCART) -- CVBS+SV+RGB+TV OUT
SCART CVBS IN
NEARLY CONNECTOR
NEARLY IC
SCART1_CVBS
SCT1_AV_IN
R373 0R01 1/10W
ZD115 NC/VPORT0603 102M V05
R377 75R 1/10W 1%
C325 47pF 50V
R374 100R 1/10W 5%
C324 47N 50V
NEARLY IC
NEARLY CONNECTOR
SCART CVBS OUT
Tuner_ByPass_Out
R378 75R 1/10W 1%
L109 1.8uH
C326 47pF 50V
C327 47pF 50V
R375 0R01 1/10W
C328 NC/47pF 50V
SCT1_AV_OUT
ZD116 NC/VPORT0603100KV05
FAST BLANKING
SCT1_FB_IN
R372 0R01 1/10W
SOY0
ZD114 NC/VPORT0603 102M V05
R376 75R 1/10W 1%
Function Select
SCT1_FS_IN
R379 51K 1/10W
SCART_FS0
ZD117 NC/VPORT0603100KV05
R381 10K 1/10W
SCART RGB IN
FB118
SCT1_B_IN
R382 0R01 1/10W
80 OHM
ZD119 NC/VPORT0603 102M V05
R384 75R 1/10W 1%
C331 NC
FB119
SCT1_B
R383 68 +-5% 1/10W
C329 10N 50V
Y0P
R385 100R 1/10W 5%
COM_2
C332 COM0 10N 50V
SCT1_G_IN
R387 0R01 1/10W
80 OHM
ZD121 NC/VPORT0603 102M V05
R389 75R 1/10W 1%
C335 NC
SCT1_G
R388 68 +-5% 1/10W
C334 PB0P 10N 50V
ZD122 NC/VPORT0603 102M V05
R391 75R 1/10W 1%
C337 NC
FB120
SCT1_R_IN
R393 0R01 1/10W
80 OHM
SCT1_R
R394 68 +-5% 1/10W
C339
PR0P 10N 50V
NEARLY CONNECTOR
Near Connector SCART1 Audio Output
SCART1L_PA
470R 1/10W 1%
R380
C330 4N7 50V
SCT1_AUL_OUT
ZD118 NC/VPORT0603 102M V05
SCART1R_PA
470R 1/10W 1%
R386
C333
Near Connector
SCT1_AUR_OUT
ZD120 NC/VPORT0603 102M V05
4N7 50V
SCART1 Audio Output MUTE
HP_A_A_MUTE
SCT1_AUL_OUT
SCT1_AUR_OUT
Q136 2SD1757K
Q137 2SD1757K
SCART1 Audio Input
SCT1_AUR_IN
C336 10uF 10V
R390 30K 1/10W
SCART1_R_In
SCT1_AUL_IN
C338 10uF 10V
R392 30K 1/10W
SCART1_L_In
ZD123
ZD124 NC/VPORT0603 102M V05
NC/VPORT0603 102M V05
Video Input
8 SCART1_CVBS
8 SOY0
8 SY1
8 SC1
8 Y0P
8 PB0P
8 COM0
8 PR0P
8,14 VSYNC
8,14 HSYNC
8,14 BP
8,14 SOG
8,14 GP
8,14 COM
8,14 RP
SCART1_CVBS
SOY0
SCART2_Y_IN
SCART2_C_IN
Y0P
PB0P
COM0
PR0P
VSYNC
HSYNC
BP
SOG
GP
COM
RP
9 HP_A_A_MUTE
HP_A_A_MUTE
3,4,5,6,7,8,9,10,11,13,14,15,16,17
GND
SCART 2(Half SCART) -- CVBS+SV+Monitor OUT
SCART CVBS/SV IN
NEARLY CONNECTOR
NEARLY IC
SCT2_AV_IN
R395 0R01 1/10W
ZD125 NC/VPORT0603 102M V05
R399 75R 1/10W 1%
C341 47pF 50V
R396 100R 1/10W 5%
SCART2_Y_IN
C340 47N 50V
SCT2_R_IN
R402 0R01 1/10W
ZD129 NC/VPORT0603 102M V05
R404 75R 1/10W 1%
C345 47pF 50V
R403 100R 1/10W 5%
SCART2_C_IN
C343 47N 50V
colby 0624
SCART2 Audio Output MUTE
HP_A_A_MUTE
SCT2_AUL_OUT
SCT2_AUR_OUT
Q138 2SD1757K
Q139 2SD1757K
SCART2 Audio Input
SCT2_AUR_IN
SCT2_AUL_IN
ZD131 NC/VPORT0603100KV05
ZD132 NC/VPORT0603 102M V05
C346 10uF 10V
Near Connector
R405 30K 1/10W
SCART2_R_In
C347 10uF 10V
R407 30K 1/10W
SCART2_L_In
SCART2 Audio Output
SCART2L_PA
470R 1/10W 1%
R397
C342 4N7 50V
SCT2_AUL_OUT
ZD126 NC/VPORT0603 102M V05
SCART2R_PA
470R 1/10W 1%
R401
C344 4N7 50V
Near Connector
SCT2_AUR_OUT
ZD128 NC/VPORT0603 102M V05
Function Select
SCT2_FS_IN
R398 51K 1/10W
SCART_FS1
ZD127 NC/VPORT0603100KV05
R400 10K 1/10W
MONITOR SCART CVBS BYPASS
NEARLY IC
NEARLY CONNECTOR
Moniter_Out
L110 1.8uH
R406 0R01 1/10W
SCT2_AV_OUT
R408 75R 1/10W 1%
C348 47pF 50V
C349 47pF 50V
C350 NC/47pF 50V
ZD130 NC/VPORT0603100KV05
Video Output
8 Tuner_ByPass_Out
8 Moniter_Out
Tuner_ByPass_Out
Moniter_Out
SCART Interface
6 SCART_FS1
6 SCART_FS0
SCART_FS1
SCART_FS0
Audio Input
8 SCART2_L_In
8 SCART2_R_In
8 SCART1_L_In
8 SCART1_R_In
SCART2_L_In
SCART2_R_In
SCART1_L_In
SCART1_R_In
Audio Output
9 SCART1R_PA
9 SCART1L_PA
9 SCART2R_PA
9 SCART2L_PA
SCART1R_PA
SCART1L_PA
SCART2R_PA
SCART2L_PA
CN151
SCART
SCT1_AUR_IN
SCT1_AUL_IN
SCT1_FS_IN
SCT1_AVI_GND
SCT1_AV_IN
SCT1_AUR_OUT
SCT1_AUL_OUT
SCT1_GB_GND
SCT1_B_IN
SCT1_GB_GND
SCT1_G_IN
SCT1_R_GND
SCT1_R_IN
SCT1_AVO_GND
SCT1_AV_OUT
CN152
SCART
SCT2_AUR_IN
SCT2_AUL_IN
SCT2_FS_IN
SCT2_AVI_GND
SCT2_AV_IN
SCT2_AUR_OUT
SCT2_AUL_OUT
SCT2_GB_GND
SCT2_GB_GND
SCT2_R_GND
SCT2_R_IN
SCT2_AVO_GND
SCT2_AV_OUT
MAIN [10] SCART

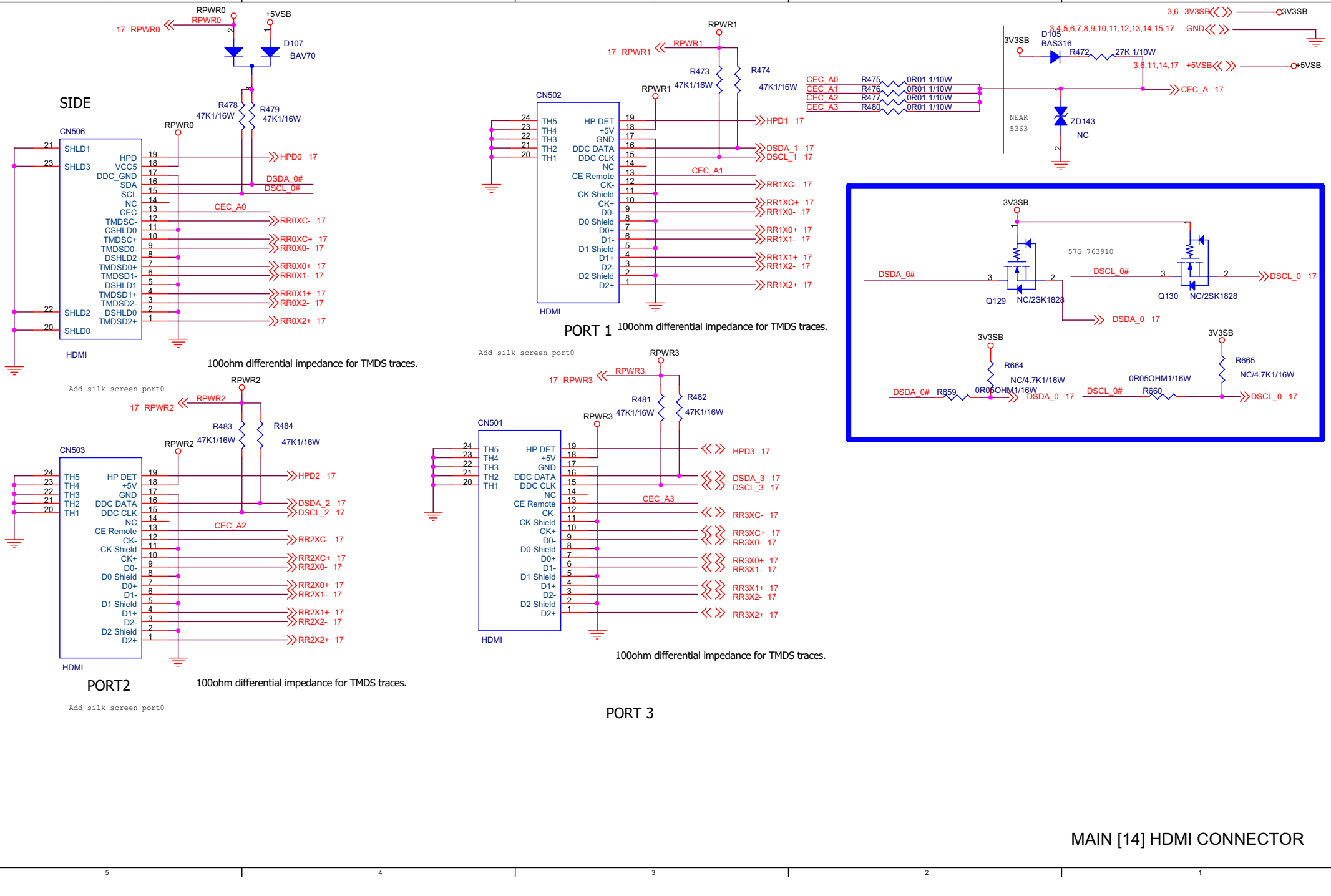

Panasonic
+B Active Antenna
BB
RF-AGC
NC
BT Monitor
NC
NC
SCL
SDA
NC(4MHz)
IF AGC
+B
IFD-out1
IFD-out2
IF Monitor
TH1
TH2
TH3
TH4
5V_T1
TUNER5V
FB121 80 OHM
C351 0.1uF 50V
C352 10uF 10V
C353 47uF/16V
M_GPIO2
R645 NC/100K 1/10W
Close to TUNER
Q128 57G 420519 T
NC/BC857C
RF_AGC#
RF_AGC
R411 10K 1/10W
R412 10K 1/10W
RF_AGCT
C354 47N 50V
R414 0R01 1/10W
C355 47N 50V
Close to MT5363
colby 0622
colby 0624
TU_FAT_IN2+
TU_FAT_IN2-
C356 39pF 50V
C357 39pF 50V
R415 4.7K 1/10W
R416 4.7K 1/10W
RFAGC Critical Signal
Place these two LPF closed to main chip rather than tuner.
T_SCL
T_SDA
R417 200R 1/10W 5%
R418 200R 1/10W 5%
SCL_TU
SDA_TU
C358 39pF 50V
C359 39pF 50V
Place these two LPF closed to main chip rather than tuner.
IF_AGCT_T_TUNER
R421 10K 1/10W
IF_AGC
R422 IF_AGCT 10K 1/10W
C365 47N 50V
C366 47N 50V
3,4,5,6,7,8,9,10,11,12,14,15,16,17
GND
8 FAT_IN-
8 FAT_IN+
7 SDA_TU
7 SCL_TU
8 IF_AGCT
8 RF_AGCT
7 M_GPIO2
7 IF_AGC
FAT_IN-
FAT_IN+
SDA_TU
SCL_TU
IF_AGCT
RF_AGCT
M_GPIO2
IF_AGC
Tuner Control
Impedance Contrl 100ohm and route these path with differential pattern on top layer.
IF BPF
C361 33PF 50V
靠近 MT5363
C695 22pF 50V
L111 0.33uH 10%
R419 49.9 OHM +-1% 1/10W
L112 0.22uH 10%
C360 10N 50V
FAT_IN+
C363 33PF 50V
L113 NC
L114 0.33uH 10%
R423 49.9 OHM +-1% 1/10W
C696 22pF 50V
L115 0.22uH 10%
C368 10N 50V
FAT_IN-
C369 33PF 50V
NC/FH2607 TU102
TH4
TH3
WIF OUT
DIF2
DIF1
IF_AGC
SCL
As
VT
VP(TUN)
RF_AGC
Ant Pwr
RF_IO
R428 NC
5V_T1
RF_AGC#
+5V_SW
R426 0R05 4A 1/4W
+5V_TUNER FROM Regulator
TUNER5V
U123 SC4215HSETRT
C376 100N 50V
C374 10uF 10V
R640 9.53K OHM +-1% 1/10W
C377 100N 50V
C375 330uF 10V
R650 0R05 4A 1/4W
VO=4.831V
R641 1K1 1/10W 1%
colby 0624
TU103
C545 100N 16V
R661 NC/0R01 1/10W
M_GPIO2
RF AGC
SCL MOPLL AS
DIF+
DIF-
IF AGC
SIF
Audio
Video
NC/TUN-TDTW-S710D
NC/LG TDTW-S810D
靠近 TDA10024
C563 0.1uF 50V
R425 0R01 1/10W
L122 0.33uH 10%
C703 56pF 50V
C564 0.1uF 50V
R429 0R01 1/10W
22R 1/10W 5%
R722
VIP 7
R723
VIM 7
MAIN [11] TUNER

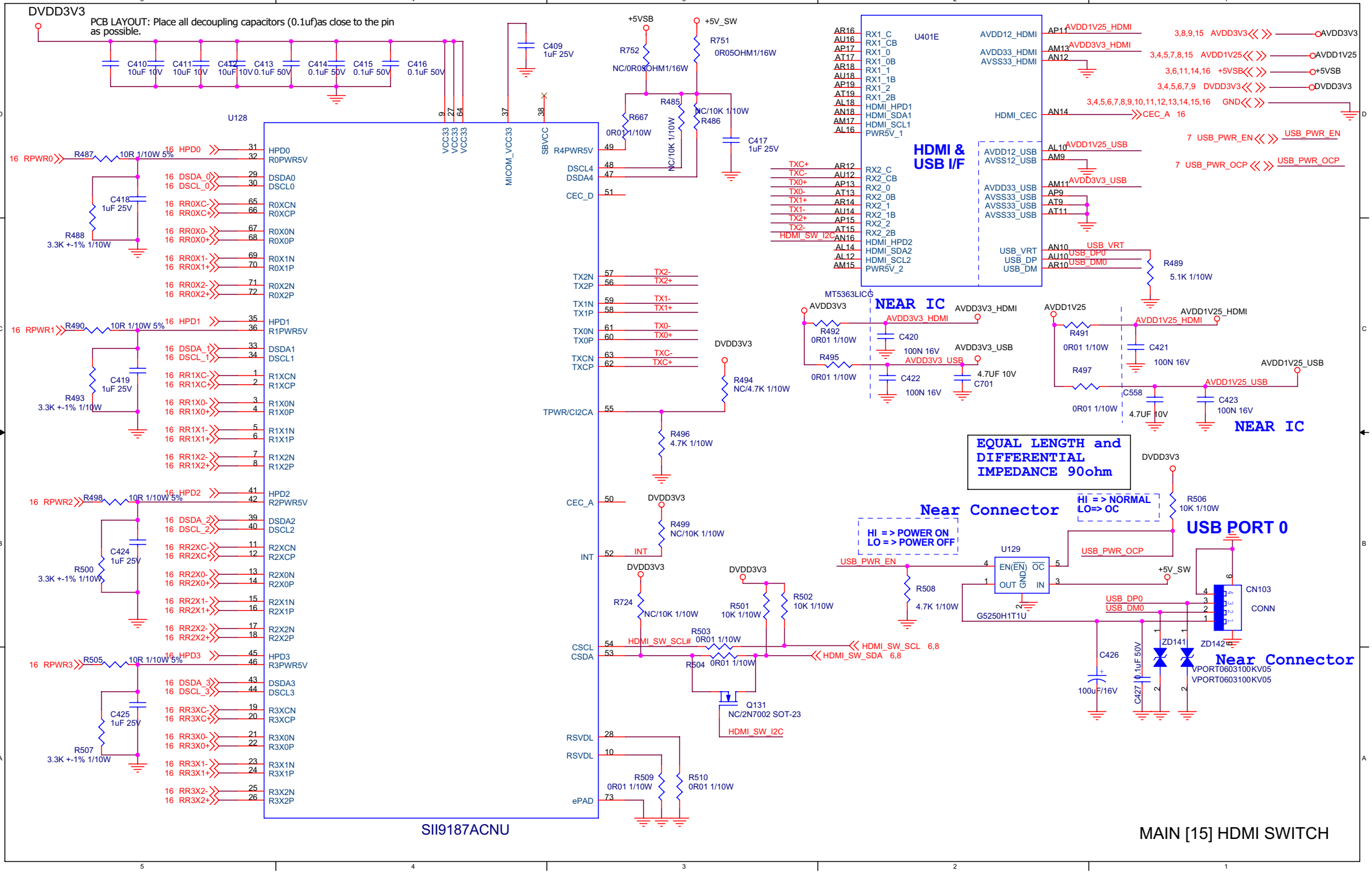

VGA CONNECTOR
CN101
CONN
VGA11
VGASDA#
HSYNC#
VSYNC#
VGASCL#
RED
GRN
G_G
BLU
VGA04
+5VSB
D104
BAV70
VGA_PLUGPWR
ZD133
NC
VGA EEPROM
VGA_PLUGPWR
R432
10K 1/10W
R430
10K 1/10W
R431
10K 1/10W
U124
VGASCL
VGASDA
M24C02-WDW6P
L : WP
H : Write
EEPROM_WP
R433
10K 1/10W
Q119
BC847C
NEARLY VGA CONN.
Other Control Interface
8 EEPROM_WP
EEPROM_WP
3,6,11,16,17 +5VSB
+5VSB
3,4,5,6,7,8,9,10,11,12,13,15,16,17
GND
Video Input
8 VSYNC
8 HSYNC
8 BP
8 SOG
8 GP
8 COM
8 RP
VSYNC
HSYNC
BP
SOG
GP
COM
RP
Audio Input
8 VGA_L_In
8 VGA_R_In
VGA_L_In
VGA_R_In
RS232
U611
+5VSB
C731
NC/1uF 16V
C730
C732
C733
C729
VGA04
VGA11
RX
TX
NC/ICL3232ECV-16Z
VGA SYNC SLICER
Wake Up TV From Power Saving Mode
VSYNC#
R435
0R01 1/10W
R436
0R01 1/10W
VSYNC
ZD135
NC/UDZSNP5.6B
R438
2.2K 1/10W
C383
NC/5pF
HSYNC#
R441
0R01 1/10W
R442
0R01 1/10W
HSYNC
ZD136
NC/UDZSNP5.6B
R443
2.2K 1/10W
C386
NC/5pF
NEARLY VGA CONN.
NEARLY IC
BLU
FB124 80 OHM
ZD134
NC
R437
75R 1/10W 1%
C382
5pF 50V
R434
68 +-5% 1/10W
C381
10N 50V
BP
R440
0R01 1/10W
C385
1.5nF 50V
SOG
GRN
FB125 80 OHM
ZD137
NC
R445
75R 1/10W 1%
C389
5pF 50V
R444
68 +-5% 1/10W
C387
10N 50V
GP
G_G
R446
0R01 1/10W
R447
100R 1/10W 5%
C390
10N 50V
COM
RED
FB126 80 OHM
ZD138
NC
R453
75R 1/10W 1%
C394
5pF 50V
R451
68 +-5% 1/10W
C392
10N 50V
RP
VGA Audio Input
CN102
VGA_Audio_L_In
VGA_Audio_R_In
PHONEJACK
C391
10uF 10V
R450
30K 1/10W
VGA_L_In
C393
10uF 10V
R452
30K 1/10W
VGA_R_In
ZD139
NC
ZD140
NC
NEARLY CONN.
VGA_PLUGPWR
C384
0.1uF 50V
R439
10K 1/10W
U125
VGASCL#
VGASCL
U0RX
U0RX 6
NC7SB3157P6X
C388
0.1uF 50V
U126
VGASDA#
VGASDA
U0TX
U0TX 6
UART_SW 7
UART_SW
D108
BAV70
VGA11
R449
1K 1/10W
Q120
BC847C
NC7SB3157P6X
R448
10K 1/10W
VGA_PLUGPWR
C734
NC/0.1uF 50V
R771
NC/10K 1/10W
U612
RX
U0RX
U0RX 6
NC7SB3157P6X
NC/0.1uF 50V
C735
U613
UART_SW 7
TX
U0TX
U0TX 6
Q141
NC/BC847C
NC7SB3157P6X
UART_SW
R772
NC/1K 1/10W
R773
NC/10K 1/10W

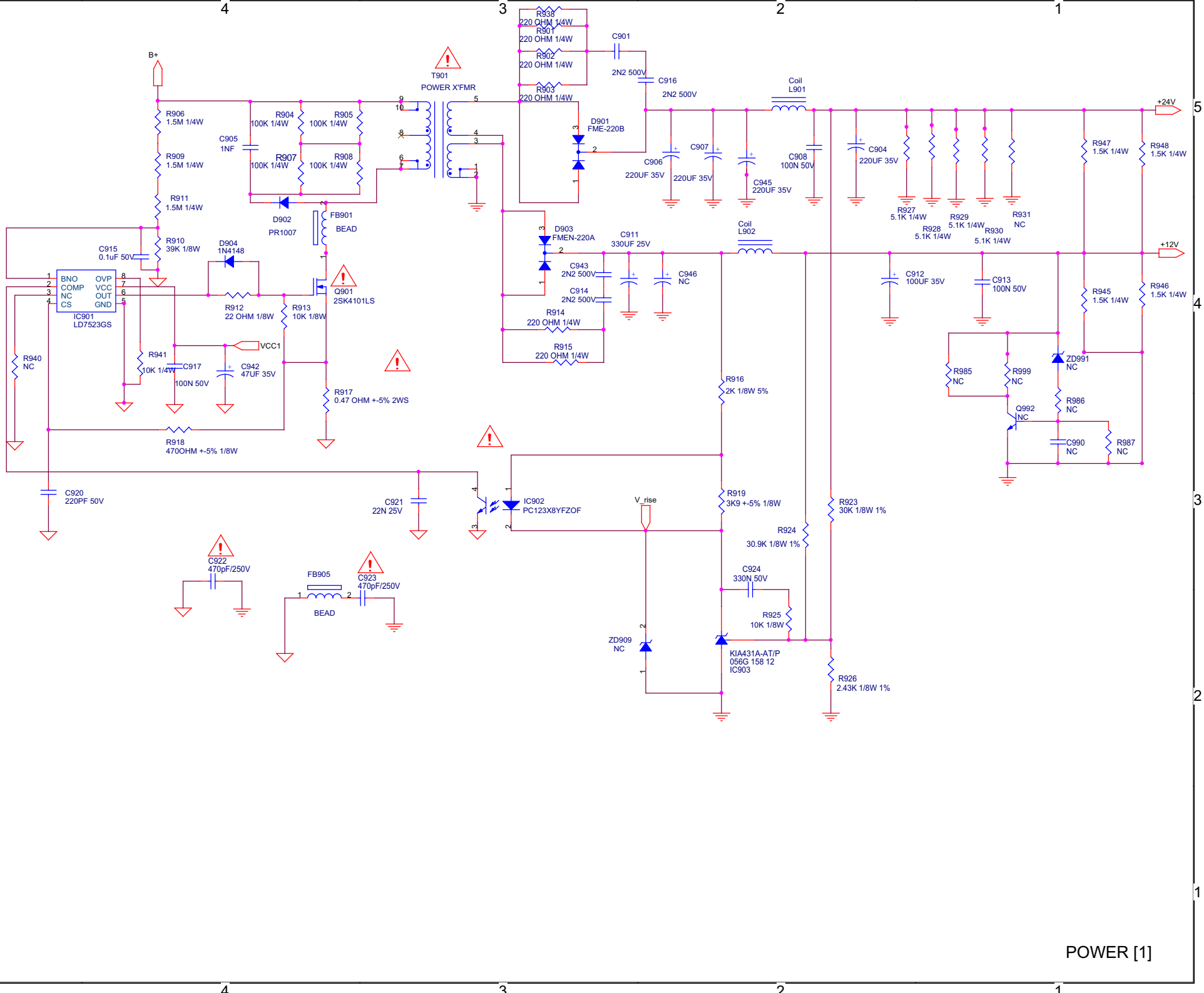
MAIN [12] VGA


U401G
LVDS Output
MT5363LICG
NEAR IC
NEAR IC
NEAR IC
HI = > LVDS_POWER ON
LO = > LVDS_POWER OFF
LVDS POWER Control
Si5403DC-T1-GE3
Q122
Q123
BC847C
Q134
BC847C
CN408
CONN
FOR WXGA PANEL
FOR SS_26" PANEL_12Vcc
FOR SHARP_32" PANEL_12Vcc
FOR LG_37" PANEL_12Vcc
FOR FULL HD PANEL

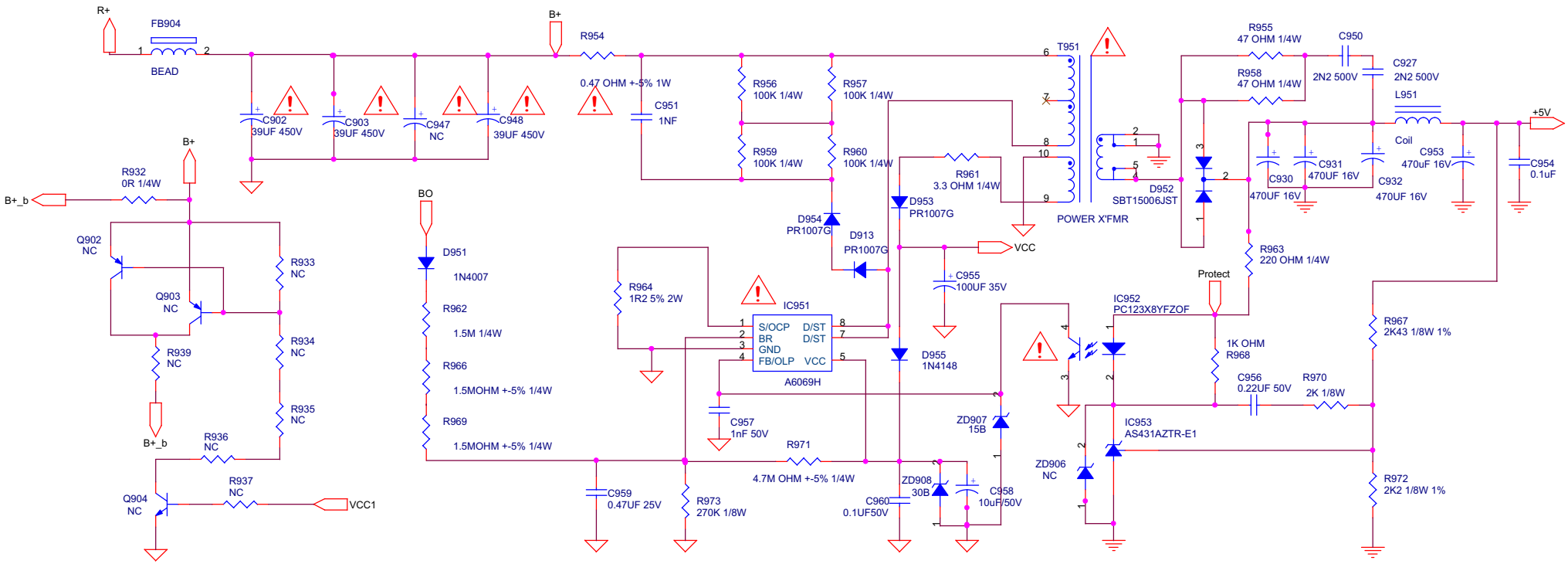
MAIN [13] LVDS


SIDE
CN506
HDMI
100ohm differential impedance for TMDS traces.
PORT 1
100ohm differential impedance for TMDS traces.
CN502
HDMI
CN503
HDMI
PORT2
100ohm differential impedance for TMDS traces.
Add silk screen port0
CN501
HDMI
100ohm differential impedance for TMDS traces.
PORT 3
MAIN [14] HDMI CONNECTOR

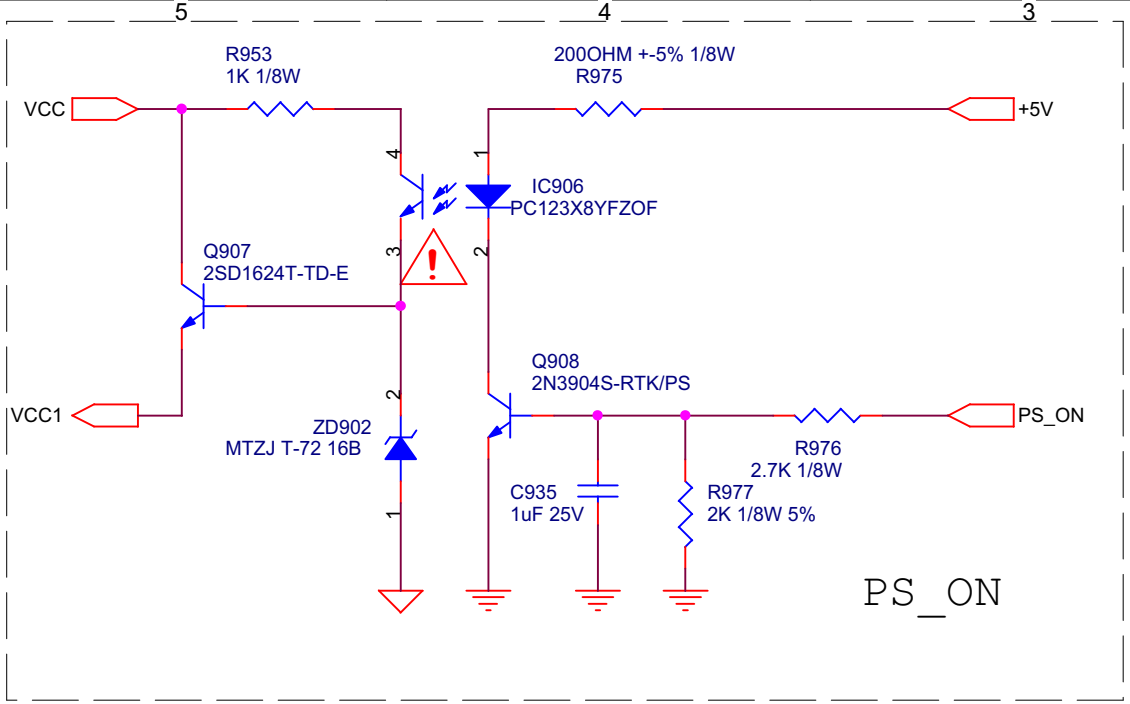

DVDD3V3
PCB LAYOUT: Place all decoupling capacitors (0.1uf)as close to the pin as possible.
C410 10uF 10V
C411 10uF 10V
C412 10uF 10V
C413 0.1uF 50V
C414 0.1uF 50V
C415 0.1uF 50V
C416 0.1uF 50V
C409 1uF 25V
U128
VCC33
MICOM_VCC33
SBVCC
+5VSB
+5V_SW
R752 NC/0R05OHM1/16W
R751 0R05OHM1/16W
R667 0R01 1/10W
R485 NC/10K 1/10W
R486 NC/10K 1/10W
C417 1uF 25V
R4PWR5V
DSCL4
DSDA4
CEC_D
HPD0
R0PWR5V
DSDA0
DSCL0
R0XCN
R0XCP
R0X0N
R0X0P
R0X1N
R0X1P
R0X2N
R0X2P
HPD1
R1PWR5V
DSDA1
DSCL1
R1XCN
R1XCP
R1X0N
R1X0P
R1X1N
R1X1P
R1X2N
R1X2P
HPD2
R2PWR5V
DSDA2
DSCL2
R2XCN
R2XCP
R2X0N
R2X0P
R2X1N
R2X1P
R2X2N
R2X2P
HPD3
R3PWR5V
DSDA3
DSCL3
R3XCN
R3XCP
R3X0N
R3X0P
R3X1N
R3X1P
R3X2N
R3X2P
RPWR0
RPWR1
RPWR2
RPWR3
R487 10R 1/10W 5%
R490 10R 1/10W 5%
R498 10R 1/10W 5%
R505 10R 1/10W 5%
C418 1uF 25V
C419 1uF 25V
C424 1uF 25V
C425 1uF 25V
R488 3.3K +-1% 1/10W
R493 3.3K +-1% 1/10W
R500 3.3K +-1% 1/10W
R507 3.3K +-1% 1/10W
TX2N
TX2P
TX1N
TX1P
TX0N
TX0P
TXCN
TXCP
TPWR/CI2CA
R494 NC/4.7K 1/10W
R496 4.7K 1/10W
CEC_A
INT
R499 NC/10K 1/10W
R724 NC/10K 1/10W
CSCL
CSDA
HDMI_SW_SCL#
R503 0R01 1/10W
R504 0R01 1/10W
R501 10K 1/10W
R502 10K 1/10W
Q131 NC/2N7002 SOT-23
HDMI_SW_I2C
RSVDL
RSVDL
ePAD
R509 0R01 1/10W
R510 0R01 1/10W
SII9187ACNU
U401E
HDMI & USB I/F
RX1_C
RX1_CB
RX1_0
RX1_0B
RX1_1
RX1_1B
RX1_2
RX1_2B
HDMI_HPD1
HDMI_SDA1
HDMI_SCL1
PWR5V_1
RX2_C
RX2_CB
RX2_0
RX2_0B
RX2_1
RX2_1B
RX2_2
RX2_2B
HDMI_HPD2
HDMI_SDA2
HDMI_SCL2
PWR5V_2
AVDD12_HDMI
AVDD33_HDMI
AVSS33_HDMI
HDMI_CEC
AVDD12_USB
AVSS12_USB
AVDD33_USB
AVSS33_USB
USB_VRT
USB_DP
USB_DM
AVDD1V25_HDMI
AVDD3V3_HDMI
CEC_A 16
AVDD1V25_USB
AVDD3V3_USB
USB_VRT
USB_DP0
USB_DM0
R489 5.1K 1/10W
MT5363LICG
NEAR IC
R492 0R01 1/10W
R495 0R01 1/10W
C420 100N 16V
C422 100N 16V
C701 4.7UF 10V
R491 0R01 1/10W
R497 0R01 1/10W
C421 100N 16V
C558 4.7UF 10V
C423 100N 16V
EQUAL LENGTH and DIFFERENTIAL IMPEDANCE 90ohm
Near Connector
HI = > POWER ON
LO = > POWER OFF
HI = > NORMAL
LO=> OC
R508 4.7K 1/10W
U129
G5250H1T1U
R506 10K 1/10W
USB PORT 0
CN103
CONN
ZD141
ZD142
VPORT0603100KV05
VPORT0603100KV05
C426 100uF/16V
C427 0.1uF 50V
Near Connector
MAIN [15] HDMI SWITCH

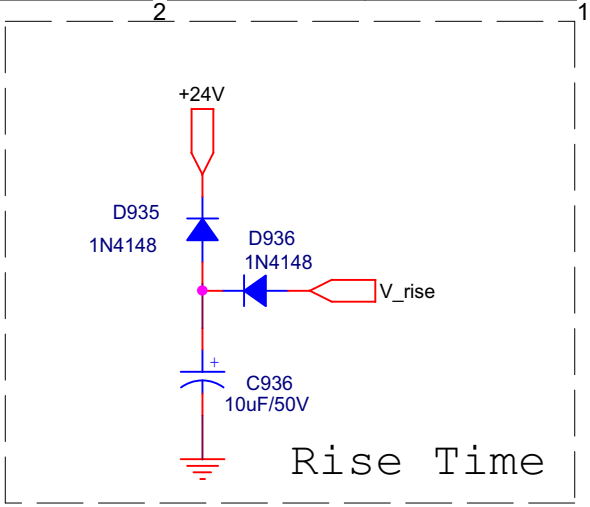

B+
T901
POWER X'FMR
R906 1.5M 1/4W
R909 1.5M 1/4W
R911 1.5M 1/4W
R910 39K 1/8W
C915 0.1uF 50V
C905 1NF
R904 100K 1/4W
R905 100K 1/4W
R907 100K 1/4W
R908 100K 1/4W
D902 PR1007
FB901 BEAD
D904 1N4148
IC901 LD7523GS
BNO
COMP
NC
CS
OVP
VCC
OUT
GND
Q901 2SK4101LS
R912 22 OHM 1/8W
R913 10K 1/8W
R940 NC
R941 10K 1/4W
C917 100N 50V
C942 47UF 35V
VCC1
R917 0.47 OHM +-5% 2WS
R918 470OHM +-5% 1/8W
C920 220PF 50V
C921 22N 25V
C922 470pF/250V
FB905 BEAD
C923 470pF/250V
IC902 PC123X8YFZOF
R938 220 OHM 1/4W
R901 220 OHM 1/4W
R902 220 OHM 1/4W
R903 220 OHM 1/4W
C901 2N2 500V
C916 2N2 500V
D901 FME-220B
C906 220UF 35V
C907 220UF 35V
C945 220UF 35V
C908 100N 50V
Coil L901
C904 220UF 35V
R927 5.1K 1/4W
R928 5.1K 1/4W
R929 5.1K 1/4W
R930 5.1K 1/4W
R931 NC
+24V
R947 1.5K 1/4W
R948 1.5K 1/4W
D903 FMEN-220A
C911 330UF 25V
C943 2N2 500V
C914 2N2 500V
C946 NC
R914 220 OHM 1/4W
R915 220 OHM 1/4W
Coil L902
C912 100UF 35V
C913 100N 50V
+12V
R945 1.5K 1/4W
R946 1.5K 1/4W
R916 2K 1/8W 5%
R985 NC
R999 NC
ZD991 NC
Q992 NC
R986 NC
C990 NC
R987 NC
R919 3K9 +-5% 1/8W
V_rise
R924 30.9K 1/8W 1%
R923 30K 1/8W 1%
C924 330N 50V
R925 10K 1/8W
ZD909 NC
KIA431A-AT/P 056G 158 12 IC903
R926 2.43K 1/8W 1%

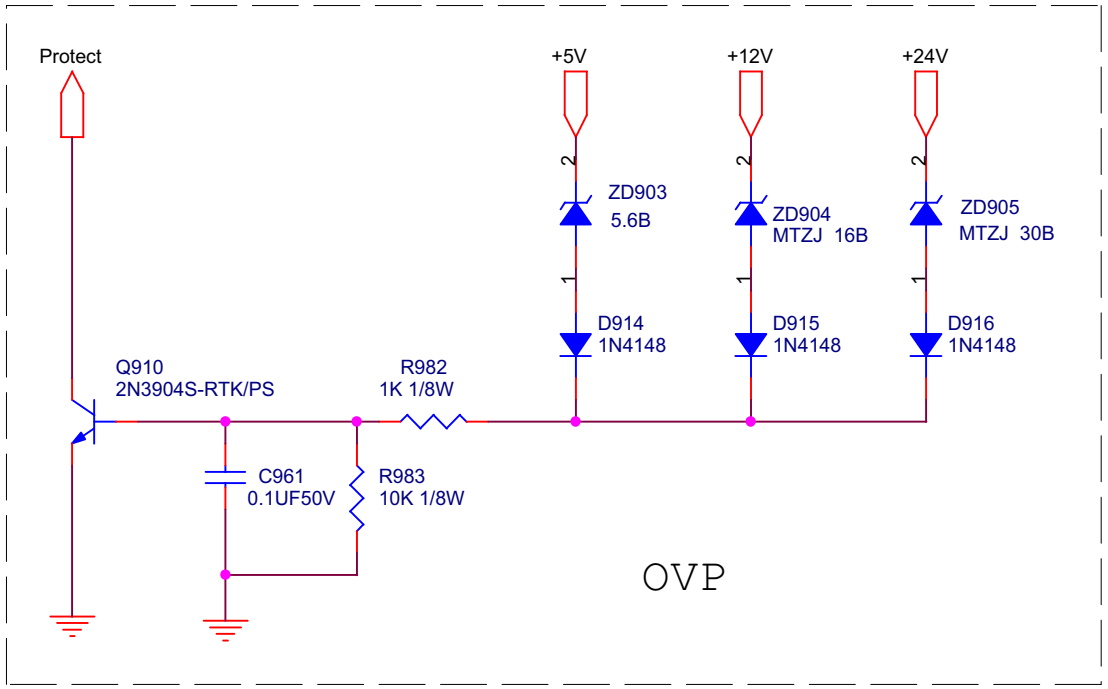
POWER [1]

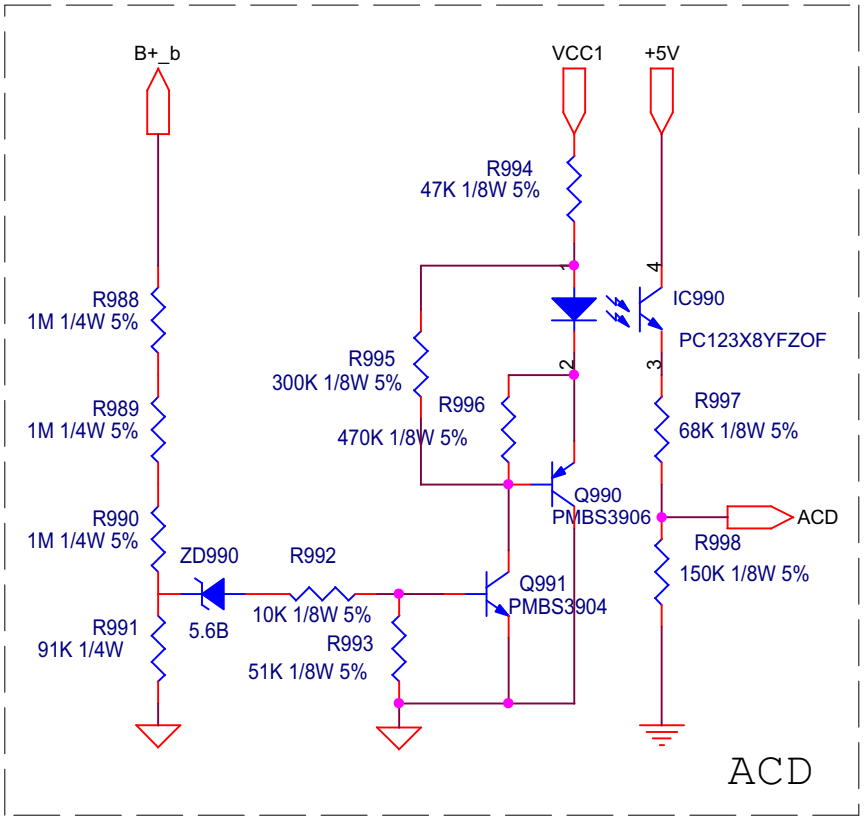

R+
FB904
BEAD
B+
R954
0.47 OHM +-5% 1W
C902
39UF 450V
C903
39UF 450V
C947
NC
C948
39UF 450V
C951
1NF
R956
100K 1/4W
R957
100K 1/4W
R959
100K 1/4W
R960
100K 1/4W
R961
3.3 OHM 1/4W
T951
POWER X'FMR
D952
SBT15006JST
R955
47 OHM 1/4W
R958
47 OHM 1/4W
C950
2N2 500V
C927
2N2 500V
L951
Coil
C930
470UF 16V
C931
470UF 16V
C932
470UF 16V
C953
470uF 16V
C954
0.1uF
+5V
B+_b
R932
0R 1/4W
Q902
NC
Q903
NC
R933
NC
R934
NC
R935
NC
R939
NC
R936
NC
Q904
NC
R937
NC
VCC1
BO
D951
1N4007
R962
1.5M 1/4W
R966
1.5MOHM +-5% 1/4W
R969
1.5MOHM +-5% 1/4W
D954
PR1007G
D913
PR1007G
D953
PR1007G
VCC
R964
1R2 5% 2W
IC951
S/OCP
BR
GND
FB/OLP
D/ST
D/ST
VCC
A6069H
C955
100UF 35V
D955
1N4148
C957
1nF 50V
R971
4.7M OHM +-5% 1/4W
C959
0.47UF 25V
R973
270K 1/8W
C960
0.1UF50V
ZD907
15B
ZD908
30B
C958
10uF/50V
IC952
PC123X8YFZOF
Protect
R963
220 OHM 1/4W
1K OHM
R968
C956
0.22UF 50V
R970
2K 1/8W
IC953
AS431AZTR-E1
ZD906
NC
R967
2K43 1/8W 1%
R972
2K2 1/8W 1%

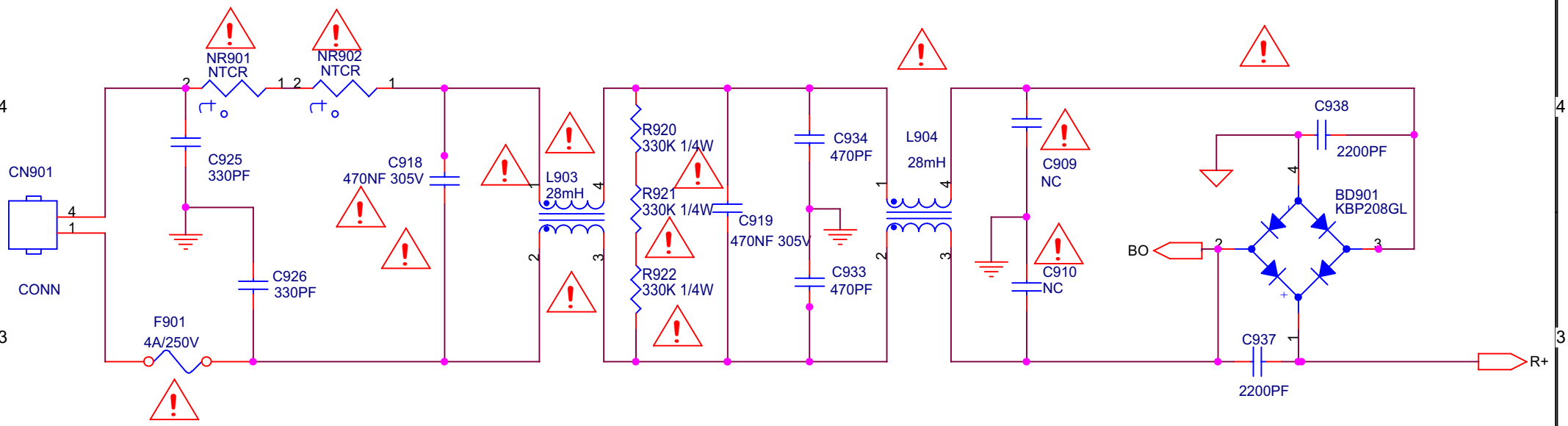
POWER [1]

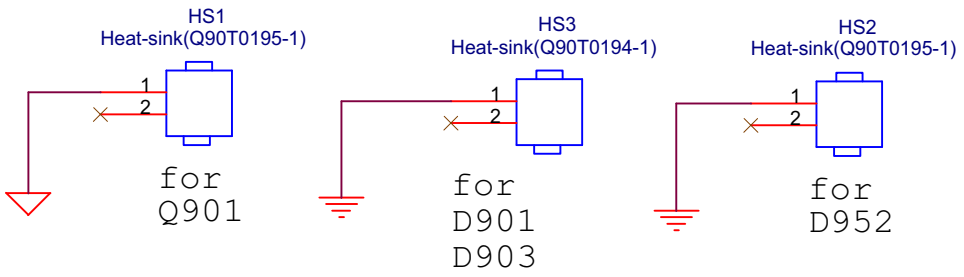

R953
1K 1/8W
200OHM +-5% 1/8W
R975
VCC
+5V
IC906
PC123X8YFZOF
Q907
2SD1624T-TD-E
VCC1
ZD902
MTZJ T-72 16B
Q908
2N3904S-RTK/PS
PS_ON
R976
2.7K 1/8W
C935
1uF 25V
R977
2K 1/8W 5%
PS_ON


+24V
D935
1N4148
D936
1N4148
V_rise
C936
10uF/50V
Rise Time

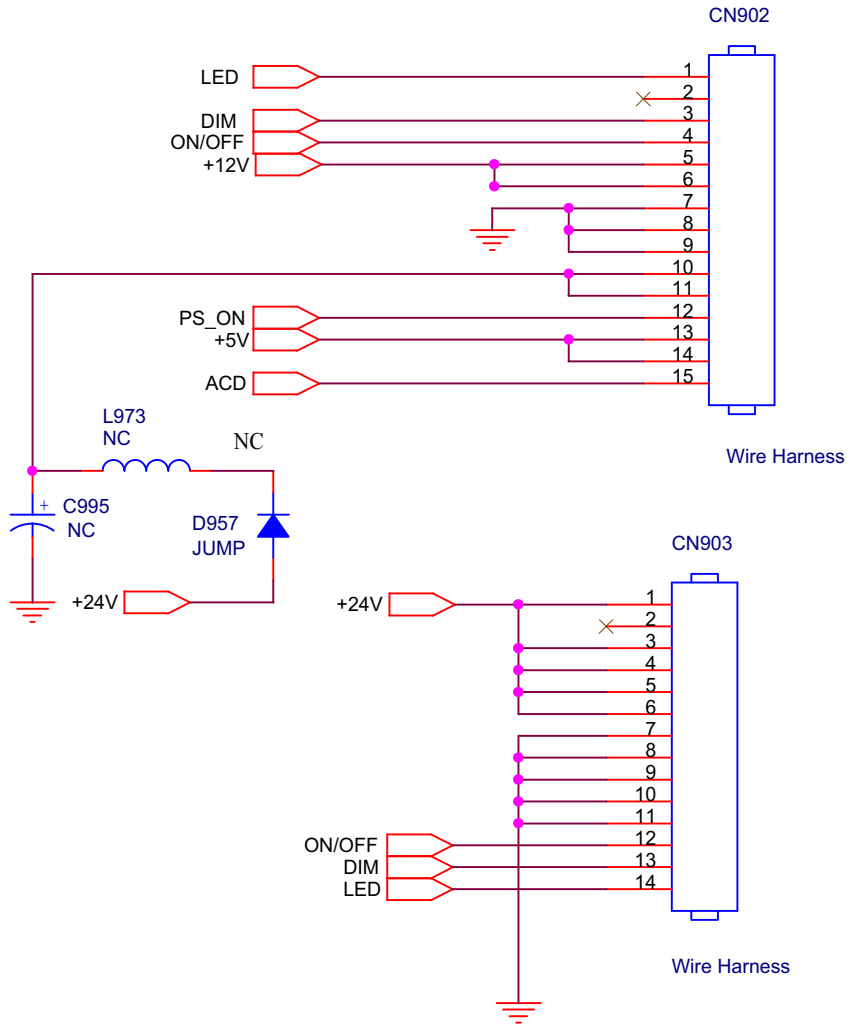

Protect
+5V
+12V
+24V
ZD903
5.6B
ZD904
MTZJ 16B
ZD905
MTZJ 30B
D914
1N4148
D915
1N4148
D916
1N4148
Q910
2N3904S-RTK/PS
R982
1K 1/8W
C961
0.1UF50V
R983
10K 1/8W
OVP


B+_b
VCC1
+5V
R994
47K 1/8W 5%
R988
1M 1/4W 5%
R995
300K 1/8W 5%
R996
470K 1/8W 5%
IC990
PC123X8YFZOF
R997
68K 1/8W 5%
R989
1M 1/4W 5%
Q990
PMBS3906
ACD
R998
150K 1/8W 5%
R990
1M 1/4W 5%
ZD990
5.6B
R992
10K 1/8W 5%
Q991
PMBS3904
R991
91K 1/4W
R993
51K 1/8W 5%
ACD

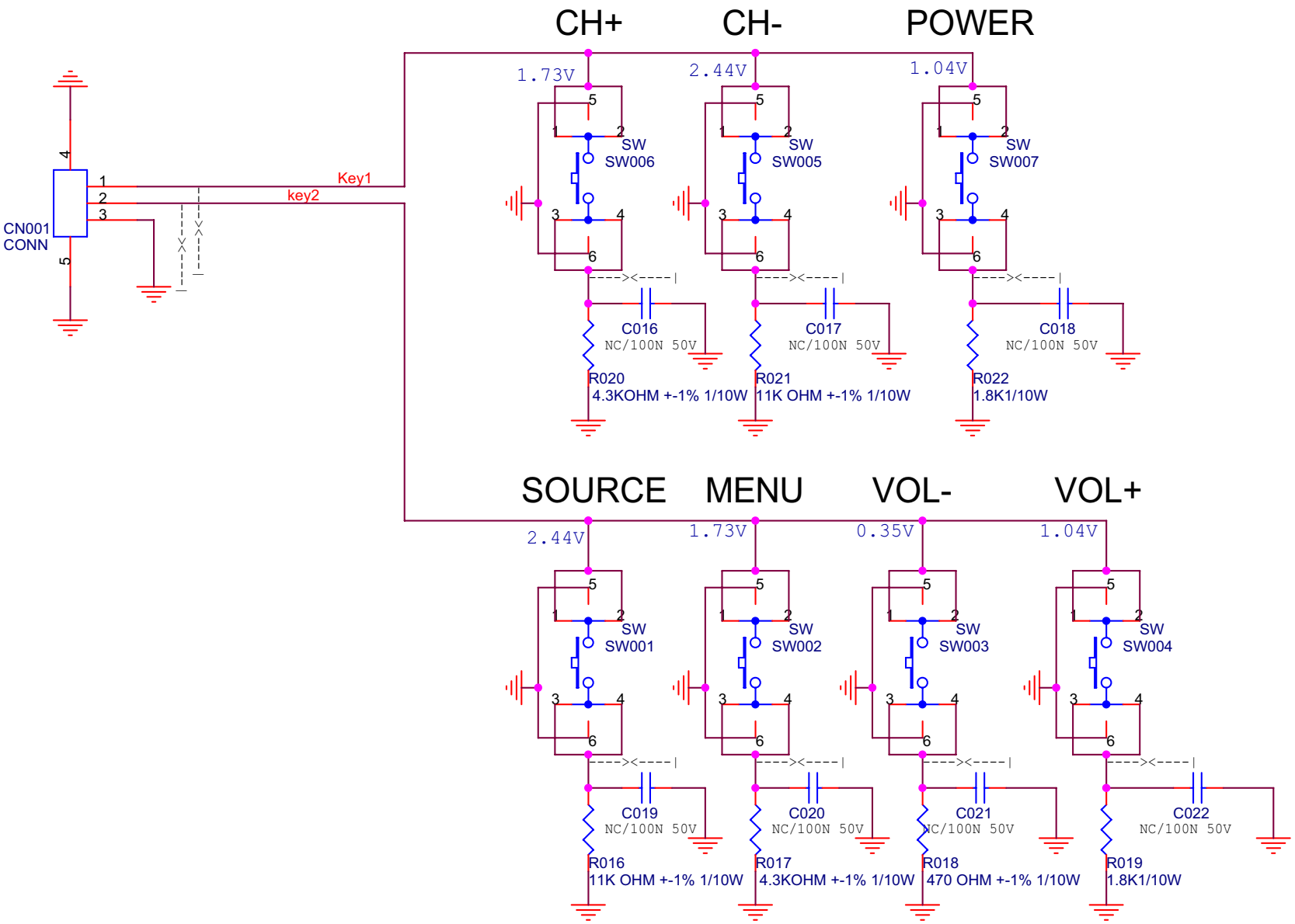

NR901
NTCR
NR902
NTCR
CN901
CONN
C925
330PF
C926
330PF
F901
4A/250V
C918
470NF 305V
L903
28mH
R920
330K 1/4W
R921
330K 1/4W
R922
330K 1/4W
C919
470NF 305V
C934
470PF
C933
470PF
L904
28mH
C909
NC
C910
NC
C938
2200PF
BD901
KBP208GL
BO
C937
2200PF
R+


HS1
Heat-sink(Q90T0195-1)
for
Q901
HS3
Heat-sink(Q90T0194-1)
for
D901
D903
HS2
Heat-sink(Q90T0195-1)
for
D952

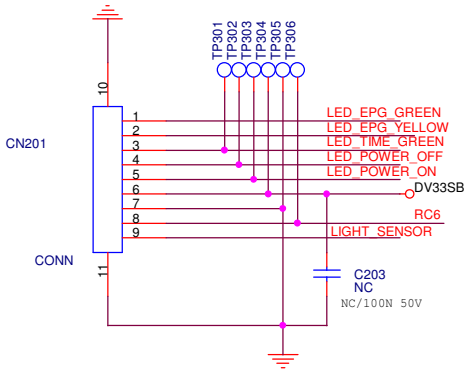
POWER [1]

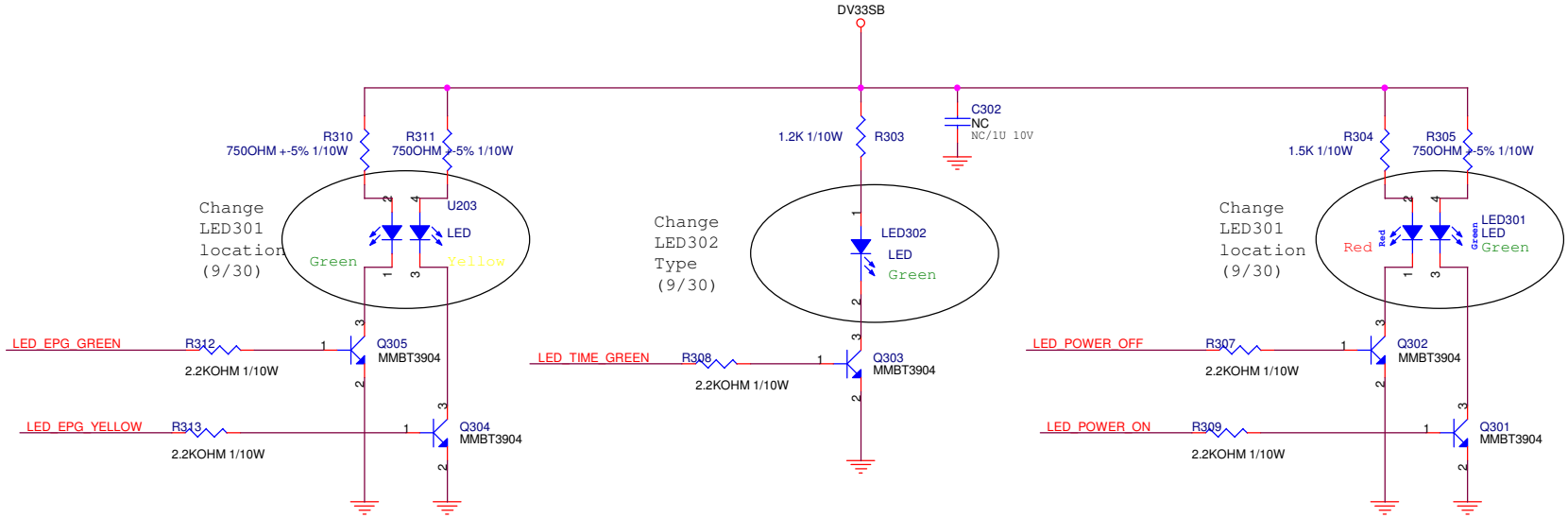

CN902
LED
DIM
ON/OFF
+12V
PS_ON
+5V
ACD
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Wire Harness
L973
NC
NC
C995
NC
D957
JUMP
+24V
CN903
+24V
ON/OFF
DIM
LED
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Wire Harness

POWER [1]


CH+
CH-
POWER
1.73V
2.44V
1.04V
CN001
CONN
Key1
key2
SW
SW006
SW005
SW007
C016
NC/100N 50V
C017
NC/100N 50V
C018
NC/100N 50V
R020
4.3KOHM +-1% 1/10W
R021
11K OHM +-1% 1/10W
R022
1.8K1/10W
SOURCE
MENU
VOL-
VOL+
2.44V
1.73V
0.35V
1.04V
SW001
SW002
SW003
SW004
C019
NC/100N 50V
C020
NC/100N 50V
C021
NC/100N 50V
C022
NC/100N 50V
R016
11K OHM +-1% 1/10W
R017
4.3KOHM +-1% 1/10W
R018
470 OHM +-1% 1/10W
R019
1.8K1/10W

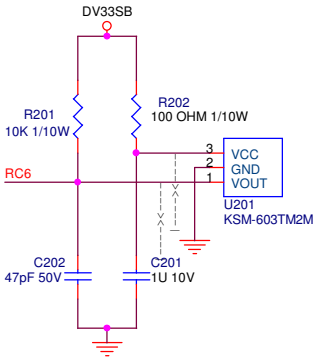
KEY [2] Key

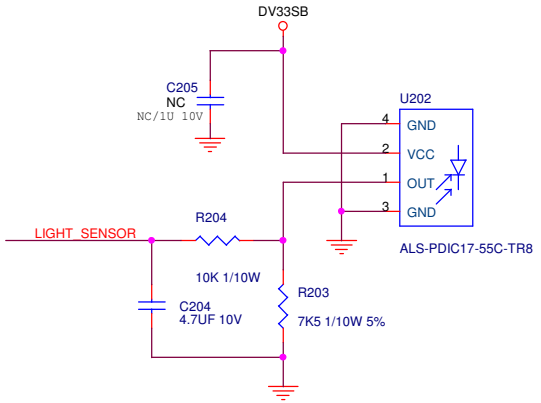




Function	LED 1		LED 2 Green	
	Red	Green	TIMER ON	LED_TIME_GREEN="H"
	Standby	Power on	EPG ON	LED_TIME_GREEN="H"
Control method	LED_POWER_OFF="H"	LED_POWER_ON="H"	TIMER OFF	LED_TIME_GREEN="L"
	LED_POWER_ON="L"	LED_POWER_OFF="L"	EPG OFF	LED_TIME_GREEN="L"

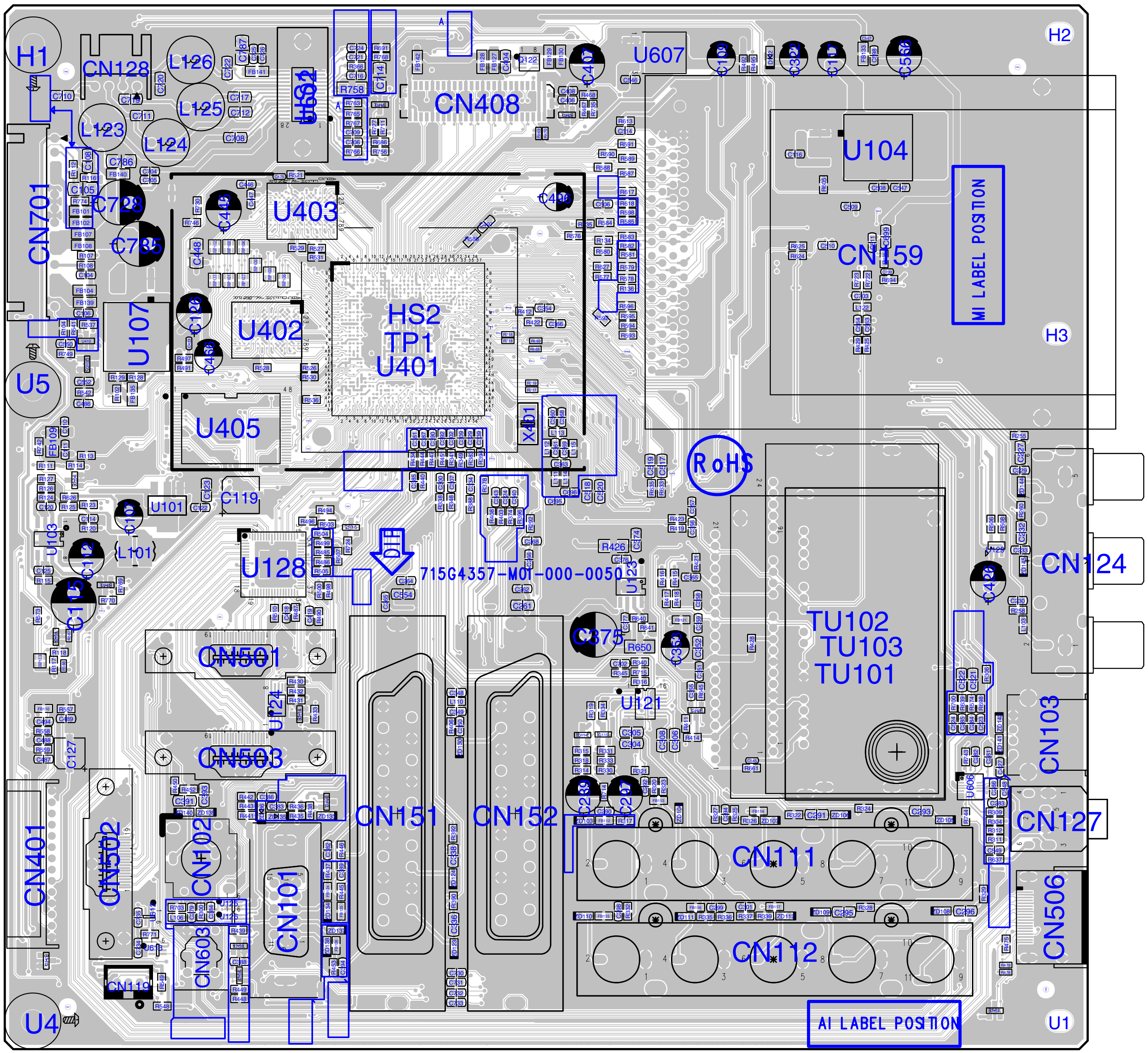
LED 3	
Green	Yellow
LED_EPG_GREEN="H"	LED_EPG_YELLOW="H"
LED_EPG_YELLOW="L"	LED_EPG_GREEN="L"



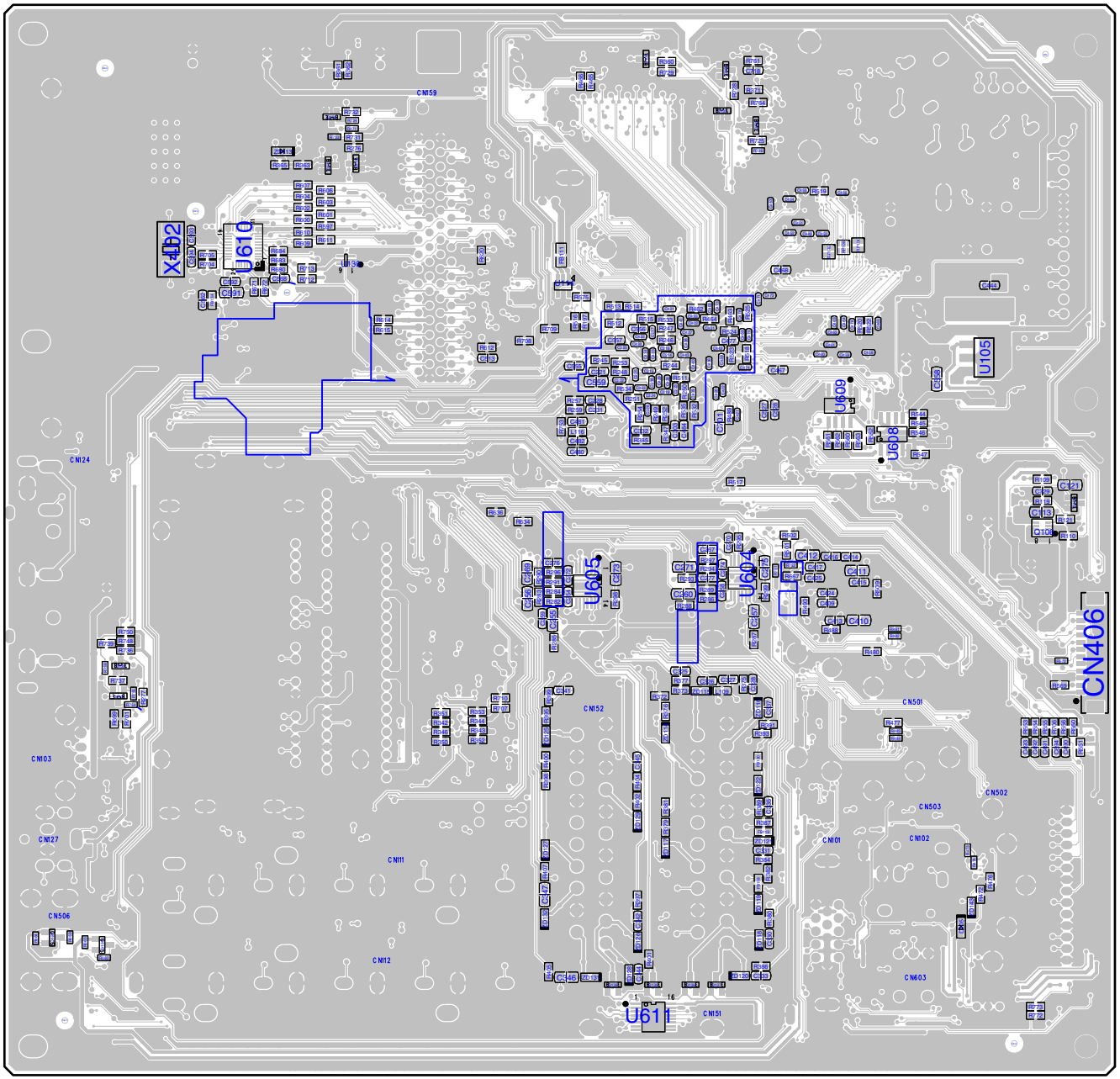


IR [2] IR

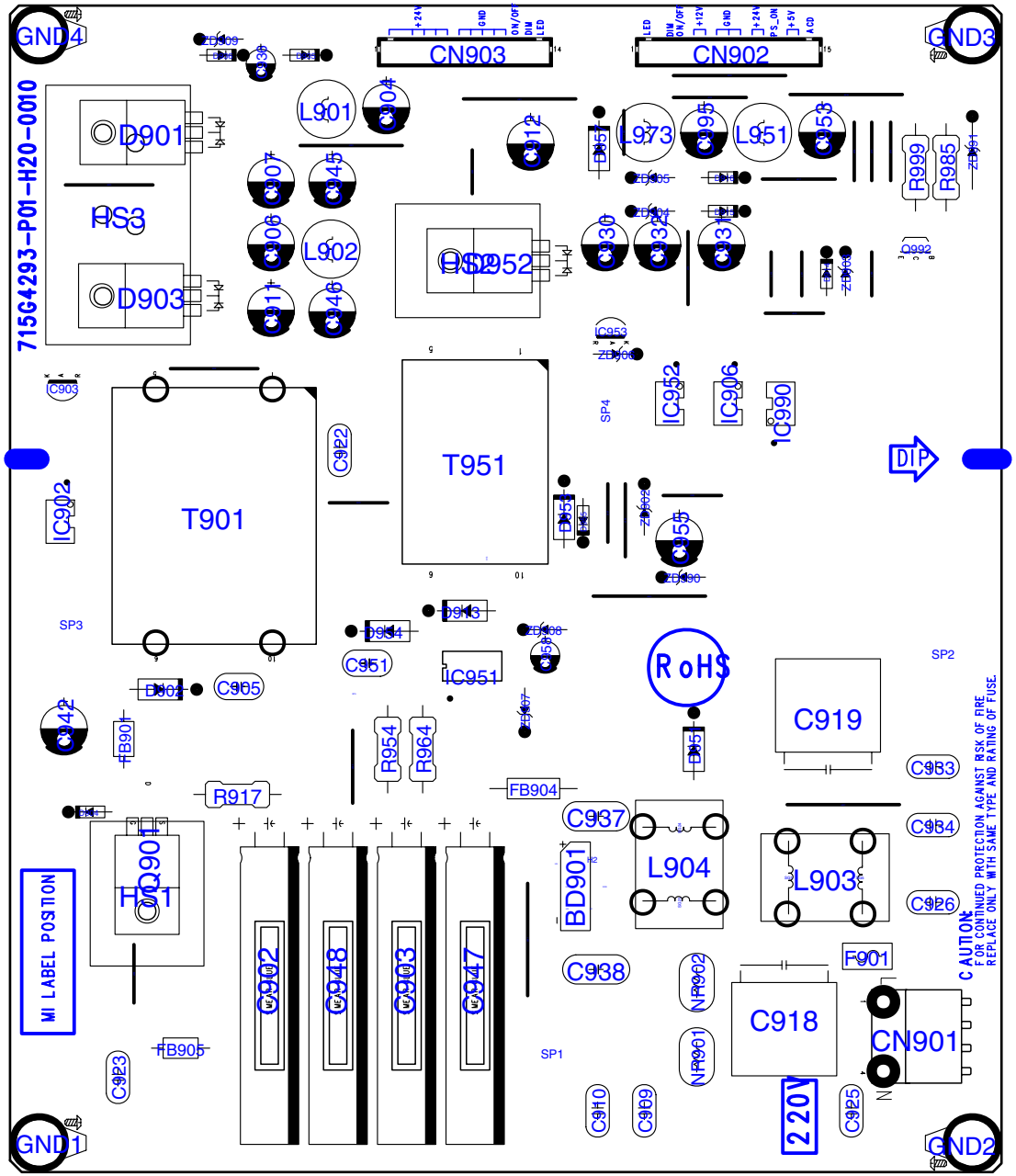
MAIN [Top]


H1
CN128
L126
L125
L123
L124
U602
CN408
U607
H2
U104
CN159
MI LABEL POSITION
H3
CN701
C728
C785
U403
U107
U402
HS2
TP1
U401
U5
U405
X401
RoHS
U101
C119
U103
L101
U128
715G4357-M01-000-0050
CN124
C375
R650
U121
TU102
TU103
TU101
CN501
U124
CN503
CN103
CN151
CN152
CN127
CN111
CN401
CN502
CN102
CN101
CN506
CN603
CN112
CN119
U4
AI LABEL POSITION
U1

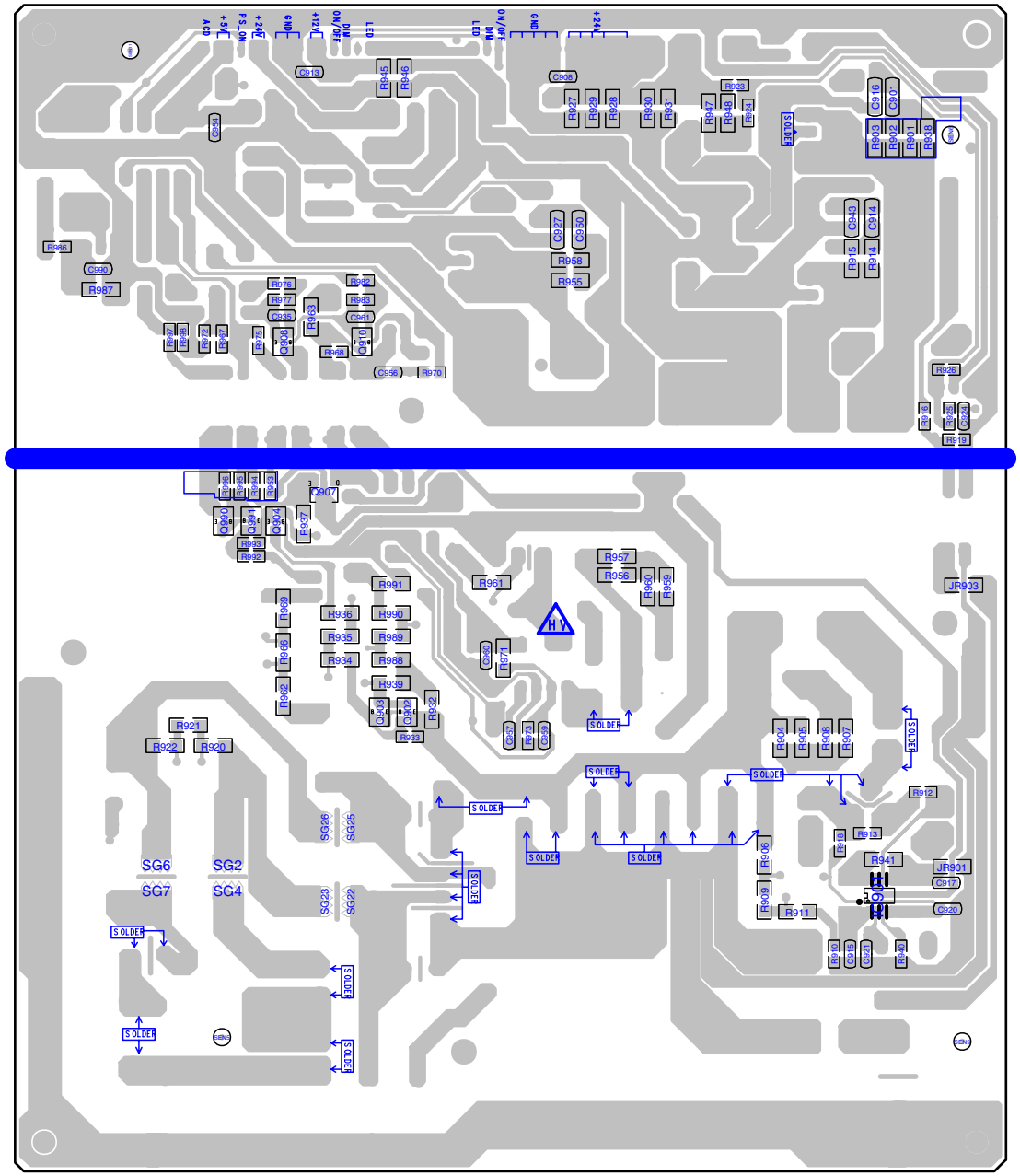
MAIN [Bottom]


X402
U610
U105
U609
U608
U605
U607
CN406
U611
CN59
CN124
CN103
CN27
CN506
CN11
CN112
CN152
CN501
CN502
CN503
CN102
CN101
CN603
CN151

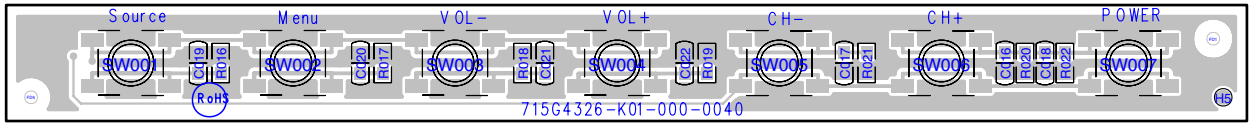
POWER [Top]


715G4293-P01-H20-0010
CN903
CN902
GND4
GND3
GND1
GND2
D901
D903
HS3
HS952
L901
L902
L973
L951
T901
T951
IC902
IC952
IC906
IC990
IC951
IC953
C903
C922
C907
C945
C906
C946
C911
C917
C930
C931
C932
C955
C942
C951
C905
C954
C964
C919
C983
C984
C926
C937
C938
C902
C948
C903
C947
C923
C910
C909
C925
R999
R985
R954
R964
R917
FB901
FB904
FB905
BD901
L904
L903
HSQ901
C918
F901
CN901
220V
RoHS
DIP
SP1
SP2
SP3
SP4
MI LABEL POSITION
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

POWER [Bottom]

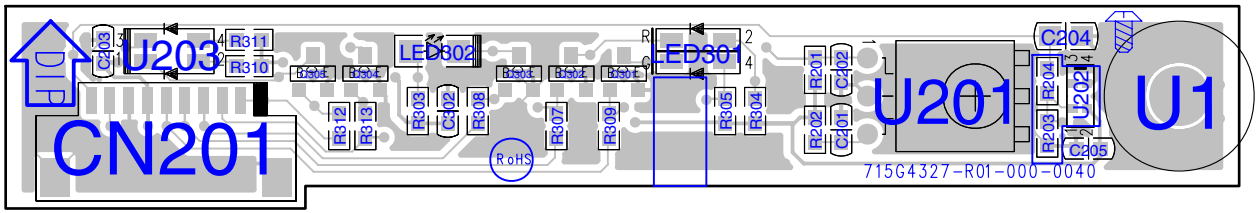


KEY [Top]

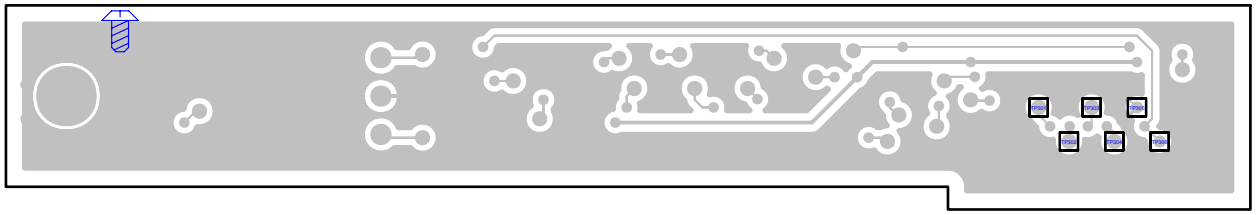

Source
Menu
VOL-
VOL+
CH-
CH+
POWER
SW001
SW002
SW003
SW004
SW005
SW006
SW007
C019
R016
C020
R017
R018
C021
C022
R019
C017
R021
C016
R020
C018
R022
RoHS
715G4326-K01-000-0040

KEY [Bottom]

IR [Top]


DIP
CN201
U203
C203
R311
R310
LED302
LED301
R312
R313
R303
C302
R308
R307
R309
R305
R304
R201
C202
C401
R202
U201
C204
R204
U202
R203
C205
U1
R.oHS
715G4327-R01-000-0040

IR [Bottom]



FIRMWARE UPDATING

APP code download sequence (using USB flash disk)

1. Copy APP code **upgrade.pkg** to USB flash disk (root folder).

Figure 1 USB flash disk

2. Plug USB flash disk into TV.

Figure 2 Plug USB Flash Disk into TV

3. Update firmware.
   Press "OK" on the remote control to update the firmware.

Figure 3 Update firmware 1

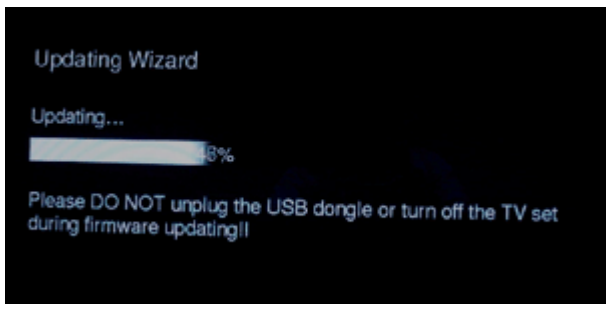


Figure 4 Update firmware 2

4. Reboot (AC Off/On) TV to download APP software automatically.

5. Unplug USB flash disk and reboot TV again.

Figure 5 Unplug USB flash disk

6. Press "MENU" button, then press "1001" on the remote control to check firmware version.

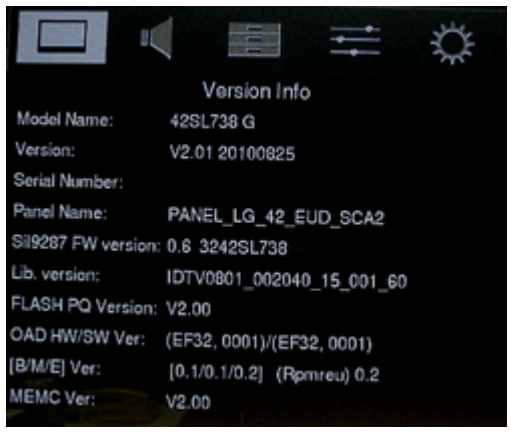


Figure 6 Check firmware version

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 ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

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 ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

PARTS LIST

Block : ↓Select

Location : Search

Parts No. : Search

Page : 1 / 1 Jump

PARTS LIST

Block : All Block

Block		Location	Parts No.	Description AA S M L
Electric Parts		E200	75022500	PC BOARD ASSY, MAIN WITH FW, 26SL738G, CBPFA4ABA7
Electric Parts	⚠	E250	75022486	PC BOARD ASSY, POWER, 26SL738B, ADTVA2405AAF
Electric Parts		E260	75022252	PC BOARD ASSY, KEY, 22SL700A, KEPFAAA5
Electric Parts		E265	75022253	PC BOARD ASSY, IR, 22SL700A, IRPFAAB4
Electric Parts	⚠	E300	75019765	LCD PANEL, LC260EXN-SCB1
Electric Parts		E310	75022487	HARNESS, 30P-50P 160MM S-LVDSXTW9315, 095G801830XA11
Electric Parts	⚠	E320	75022342	POWER CORD, 1800+200MM, 089G204A18NIS4_A11
Electric Parts		E330	75022273	SPEAKER, 16 OHM 5.5W 96.8X25.8 450/320, 078G055A_10__Y
Electric Parts		E340	75022488	HARNESS, 14P-9P+3P 270+430 S-LCDXXTW9309, 095G801414XA18
Accessory		E400	75014827	REMOCON HAND UNIT, CT-90326
Accessory	⚠	E410	75022327	DFU ASSY, 32SL738B, 705TZA4177A
Accessory		E415	75022489	BASE SCREW ASSY, 705GZACS021
Accessory		E416	75022490	STAND SCREW ASSY, 705GZACS020
Cabinet		E100	75022262	FRONT BEZEL ASSY, 26SL700A, 705TZA34225
Cabinet		E110	75022483	BACK COVER ASSY, 26SL738B, 705TZA34226
Cabinet		E112	75022410	SCREW, (BC TO FB), 0Q1T_940_10_47_CR3
Cabinet		E114	75022384	SCREW, (I/O), 0Q1G_130__8_47_CR3
Cabinet		E116	75016017	SCREW, (BC TO FB SCREW TYPE 3), 0M1G-130--6-47-CR3
Cabinet		E120	75022260	BASE ASSY, 26SL700A, 705TZA34230
Cabinet		E125	75022484	SCREW, (BASE TO STAND), 0M1T1740_12_47_CR3
Cabinet		E130	75022251	SIDE KEY ASSY, 22SL700A, 705TZA34209
Cabinet		E140	75022485	SIDE I/O ASSY, 26SL738B, 705TZA34233
Cabinet		E150	75022261	NECK ASSY, 705TZA34227
Packing		E500	75022274	CARTON BOX, 26SL700A, Z44GE018001
Packing		E510	75022275	CUSHION, TOP LEFT, 26SL700A, Z44GE010101
Packing		E511	75022276	CUSHION, TOP RIGHT, 26SL400A, Z44GE010201
Packing		E512	75022277	CUSHION, BOTTOM LEFT, 26SL700A, Z44GE010301
Packing		E513	75022278	CUSHION, BOTTOM RIGHT, 26SL700A, Z44GE010401
Packing		E520	75015111	PE BAG, (SET)(750*770), 26AV615DB, P45G9901003

PARTS LIST

Block : Electric Parts

Location : Search

Parts No. : Search

Page : 1 / 1 Jump

Block		Location	Parts No.	Description AA S M L
Electric Parts		E200	75022500	PC BOARD ASSY, MAIN WITH FW, 26SL738G, CBPFA4ABA7
Electric Parts	⚠	E250	75022486	PC BOARD ASSY, POWER, 26SL738B, ADTVA2405AAF
Electric Parts		E260	75022252	PC BOARD ASSY, KEY, 22SL700A, KEPFAAA5
Electric Parts		E265	75022253	PC BOARD ASSY, IR, 22SL700A, IRPFAAB4
Electric Parts	⚠	E300	75019765	LCD PANEL, LC260EXN-SCB1
Electric Parts		E310	75022487	HARNESS, 30P-50P 160MM S-LVDSXTW9315, 095G801830XA11
Electric Parts	⚠	E320	75022342	POWER CORD, 1800+200MM, 089G204A18NIS4_A11
Electric Parts		E330	75022273	SPEAKER, 16 OHM 5.5W 96.8X25.8 450/320, 078G055A_10__Y
Electric Parts		E340	75022488	HARNESS, 14P-9P+3P 270+430 S-LCDXXTW9309, 095G801414XA18

PARTS LIST

Block : Accessory

Location : Search

Parts No. : Search

Page : 1 / 1 Jump

Block		Location	Parts No.	Description AA S M L
Accessory		E400	75014827	REMOCON HAND UNIT, CT-90326
Accessory	⚠	E410	75022327	DFU ASSY, 32SL738B, 705TZA4177A
Accessory		E415	75022489	BASE SCREW ASSY, 705GZACS021
Accessory		E416	75022490	STAND SCREW ASSY, 705GZACS020

PARTS LIST

Block : Cabinet

Location : Search

Parts No. : Search

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Block		Location	Parts No.	Description AA S M L
Cabinet		E100	75022262	FRONT BEZEL ASSY, 26SL700A, 705TZA34225
Cabinet		E110	75022483	BACK COVER ASSY, 26SL738B, 705TZA34226
Cabinet		E112	75022410	SCREW, (BC TO FB), 0Q1T_940_10_47_CR3
Cabinet		E114	75022384	SCREW, (I/O), 0Q1G_130__8_47_CR3
Cabinet		E116	75016017	SCREW, (BC TO FB SCREW TYPE 3), 0M1G-130--6-47-CR3
Cabinet		E120	75022260	BASE ASSY, 26SL700A, 705TZA34230
Cabinet		E125	75022484	SCREW, (BASE TO STAND), 0M1T1740_12_47_CR3
Cabinet		E130	75022251	SIDE KEY ASSY, 22SL700A, 705TZA34209
Cabinet		E140	75022485	SIDE I/O ASSY, 26SL738B, 705TZA34233
Cabinet		E150	75022261	NECK ASSY, 705TZA34227

PARTS LIST

Block : Packing

Location : Search

Parts No. : Search

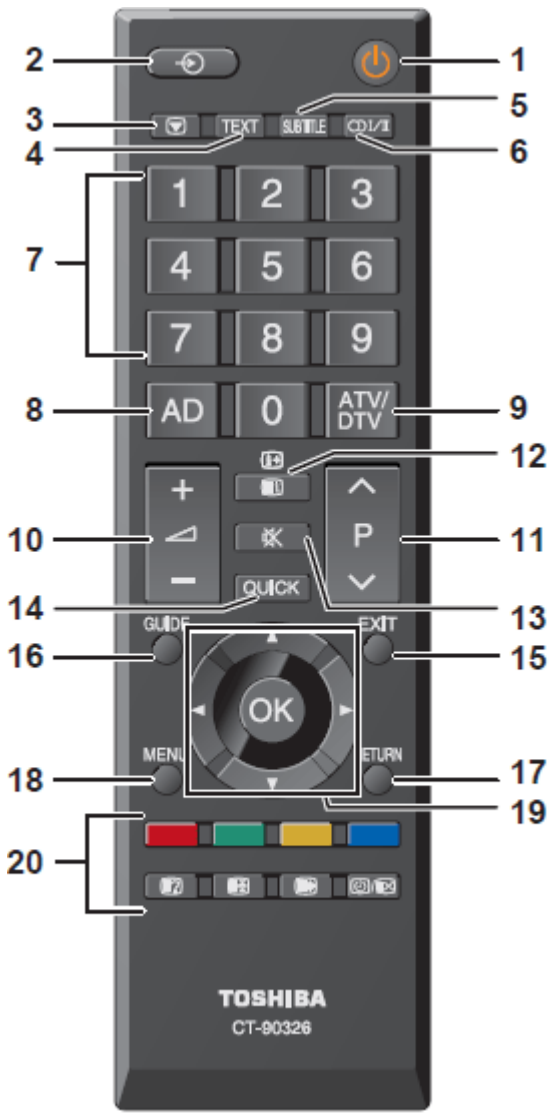
Page : 1 / 1 Jump

Block		Location	Parts No.	Description AA S M L
Packing		E500	75022274	CARTON BOX, 26SL700A, Z44GE018001
Packing		E510	75022275	CUSHION, TOP LEFT, 26SL700A, Z44GE010101
Packing		E511	75022276	CUSHION, TOP RIGHT, 26SL400A, Z44GE010201
Packing		E512	75022277	CUSHION, BOTTOM LEFT, 26SL700A, Z44GE010301
Packing		E513	75022278	CUSHION, BOTTOM RIGHT, 26SL700A, Z44GE010401
Packing		E520	75015111	PE BAG, (SET)(750*770), 26AV615DB, P45G9901003

FUNCTION AND OPERATION

The Remote Control

Simple at-a-glance reference of your remote control.

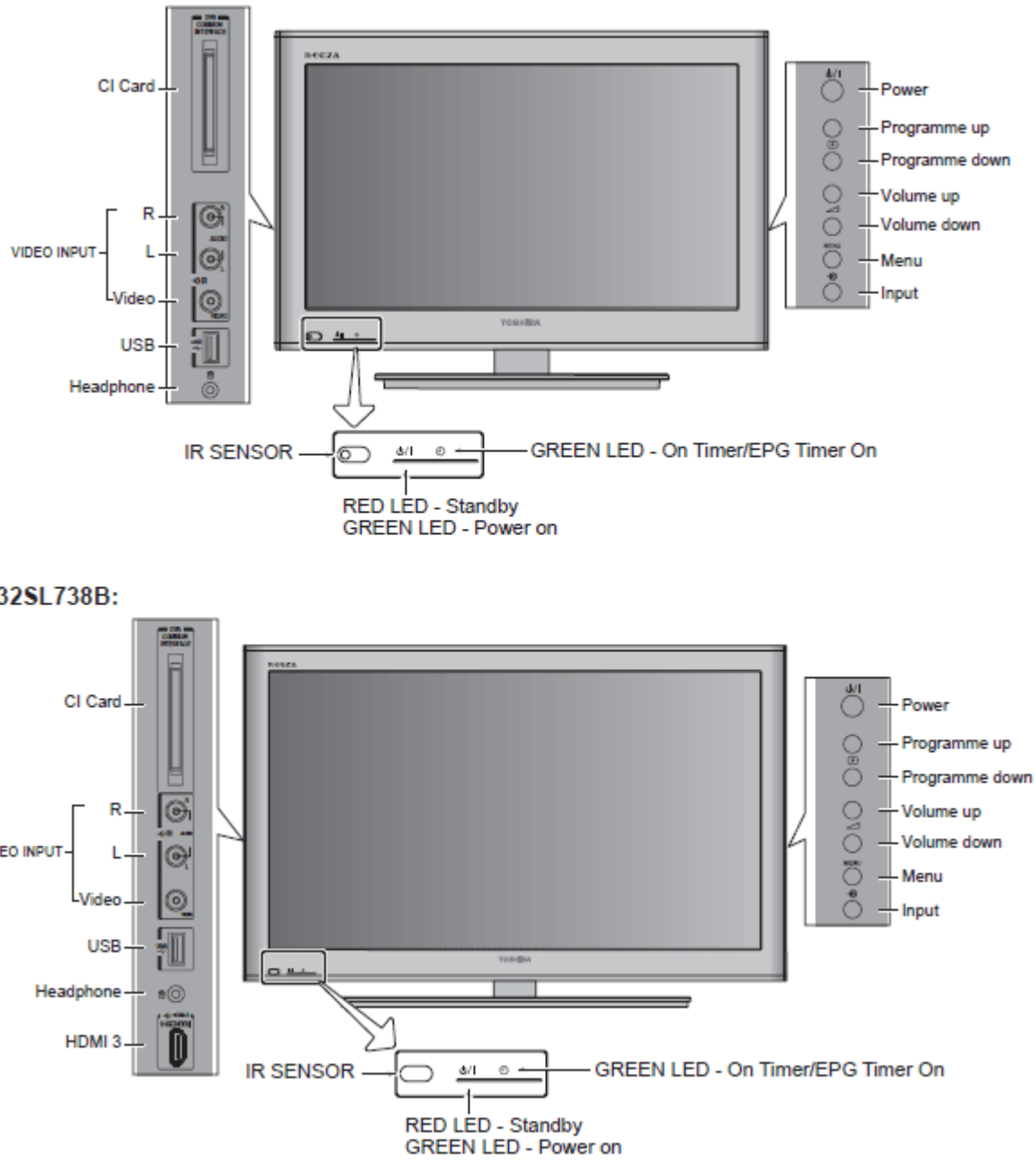


1 For On/Standby mode
2 To select input from external sources
3 Still Picture
4 To call up text services in analogue mode and interactive services in digital mode
5 To turn the subtitle On/Off
6 Stereo/Bilingual transmissions
7 Number buttons
8 Switch the Audio Description On/Off
9 To toggle between ATV and DTV mode
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 To display the programme guide
17 To return to the previous level of the on-screen menu
18 To display the on-screen menu
19 ▲, ▼, ◄, ►: To move up, down, left or right in the on-screen menu
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
In normal picture mode: To display clock on TV screen
In Teletext mode: To toggle between Telextext and normal picture mode

FUNCTION AND OPERATION

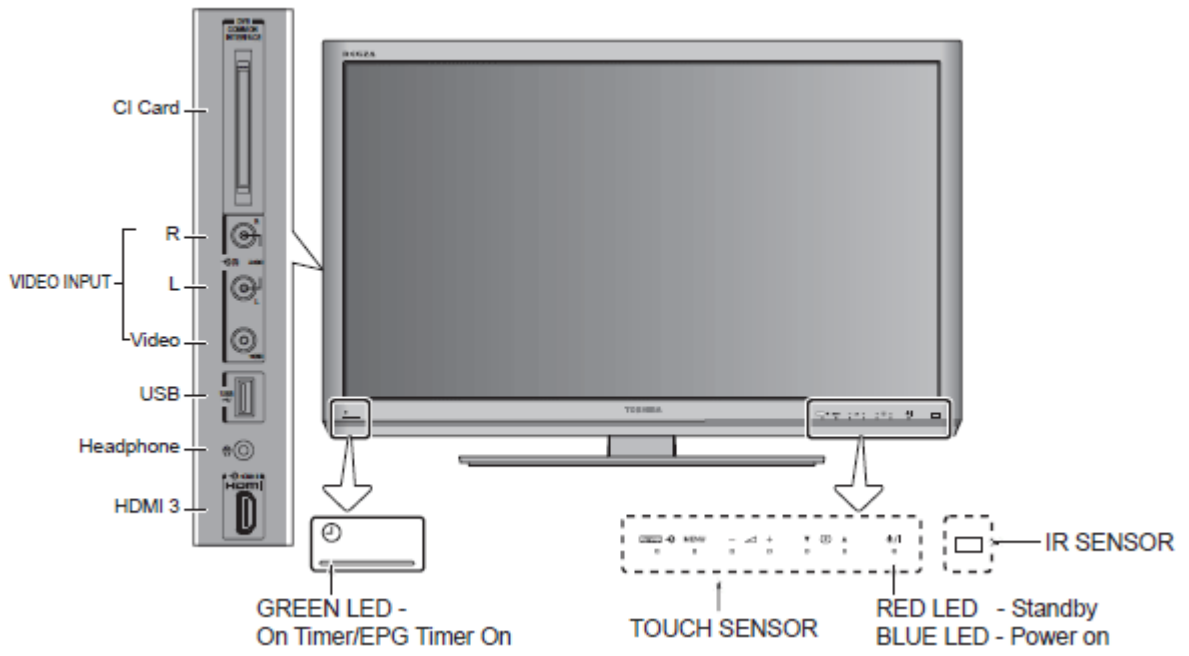
Front and Side Panel Controls

19/22SL738B:



26/32SL738B:

42SL738B:

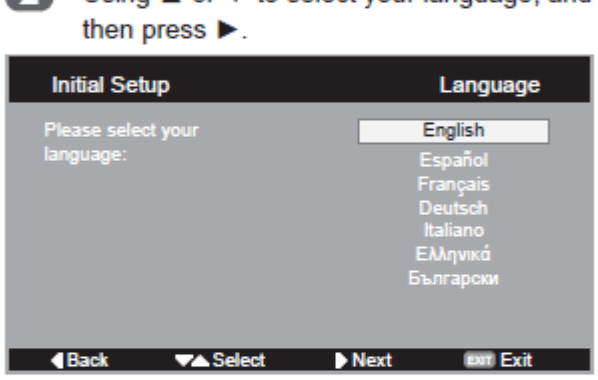


FUNCTION AND OPERATION

Initial Setup

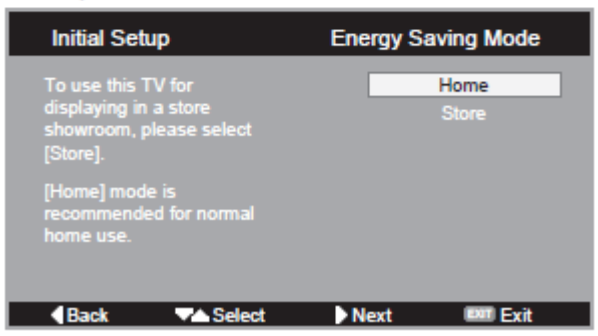
1 Connect the television to the main power and press the ⏻ button. The **Initial Setup** screen will appear at the first use. Press OK to start the initial setup.

2 Using ▲ or ▼ to select your language, and then press ►.

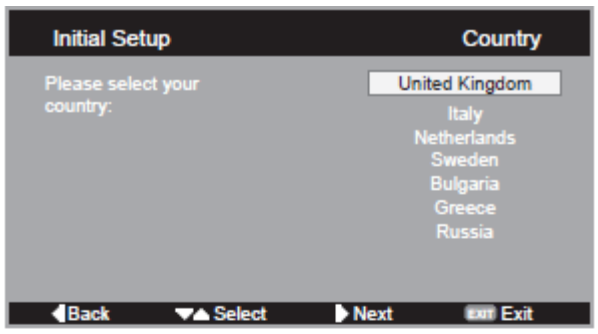


3 Using ▲ or ▼ to select between **Home** or **Store** mode (for normal home use, select **Home**), and then press ►.

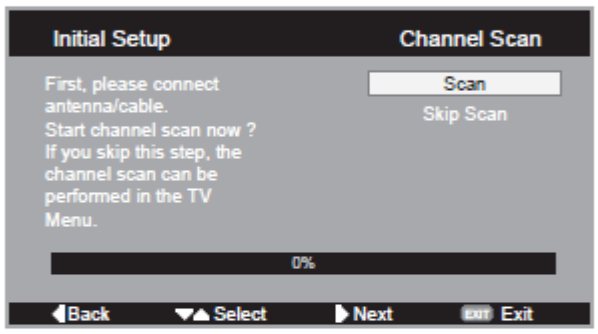
If **Home** mode is selected, the **Standard** picture mode will be selected.



4 Press ▲ or ▼ to select your country and press ► to the next step.

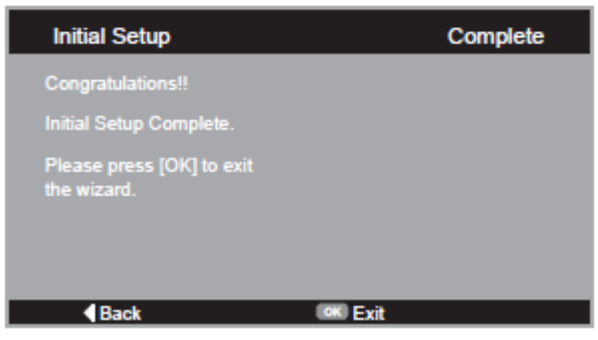


5 To start channel scan press ►.



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

6 The initial setup is now complete. Press OK to exit the wizard.



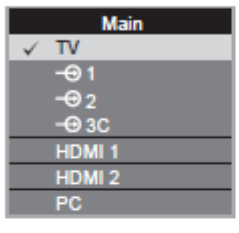
FUNCTION AND OPERATION

Input selection

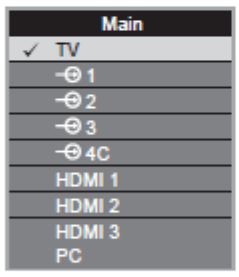
Use the input selection if the television does not switch over automatically.

1 Press ⊕. A list will appear on screen showing all stored external equipment. Use ▲ and ▼to highlight and OK to select.

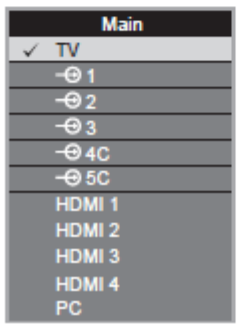
19/22SL738B:



26/32SL738B:



42SL738B:



SPECIFICATION

DVB-T Broadcast systems/ channels		Broadcast systems/channels	
UK	UHF 21-68	PAL-I	UHF UK21-UK69
France	VHF 05-10 (VHF 01-05) UHF 21-69	PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
Germany	VHF 05-12 UHF 21-69	SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
Austria	VHF 05-12 UHF 21-69	SECAM-D/K	UHF R21-R69 VHF R1-R12
Switzerland	VHF 05-12 UHF 21-69		
Italia	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69		
Spain	UHF 21-69		
Nederlands	VHF 05-12 UHF 21-69		
Sweden	VHF 05-12 UHF 21-69		
Finland	VHF 05-12 UHF 21-69		
Greece	VHF 05-12 UHF 21-69		
Video Input	PAL, SECAM, NTSC 3.58/4.43		

External connections

Antenna	Input		75 Ohm
Component	Input	Phono jacks	Y, P_B/C_B, P_R/C_R
		Phono jacks	Audio L + R
Composite	Input	Phono jack	Video
		Phono jacks	Audio L + R
SCART	Input/Output	21-pin SCART	Auto, Mixed, RGB, Composite, S-Video / TV Out
PC	Input	D-sub	RGB
HDMI	Input	HDMI®	
PC/HDMI1 Audio	Input	R3.5mm stereo	Audio L + R
Digital Audio	Output	S/PDIF	Optical
USB Port	Interface version:	USB 2.0	
	USB class:	Mass Storage	
	File system:	FAT12, FAT16 and FAT32	
	USB flash drive thickness:	9mm (max.)	
Headphone	Output	R3.5mm stereo	

Stereo	Nicam 2 carrier system		
Visible Screen Size (cm)(diagonal)	Model	19	47.0
		22	54.8
		26	66.1
		32	80.0
		42	106.7
Display			16:9
Sound output (at 10% distortion)	Model	19	3W + 3W
		22	3W + 3W
		26	5W + 5W
		32	10W + 10W
		42	10W + 10W
Power consumption as specified in EN60065:2002	Model	19	40W
		22	46W
		26	60W
		32	73W
		42	145W
Standby (approx.)	Model	19	0.5W
		22	0.5W
		26	0.5W
		32	0.5W
		42	0.5W
Dimensions (H x W x D mm) (approx.) (includes foot stand)	Model	19	342.8 x 469.9 x 188.0
		22	379.3 x 538.1 x 211.3
		26	442.6 x 645.1 x 205.2
		32	518.5 x 775.4 x 208.2
		42	668.5 x 1004.7 x 284.5
Weight (approx.) (includes foot stand)	Model	19	4.0 kg
		22	5.5 kg
		26	7.0 kg
		32	11.5 kg
		42	20.5 kg
Operating condition	Temperature: 5°C ~ 35°C (41°F ~ 94°F) Humidity: 20 ~ 80% (non-condensing)		
Accessories	Remote control 2 batteries (AAA, IEC R03 1.5V) User Manual		