



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

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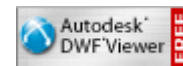
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Install Autodesk DWF Viewer

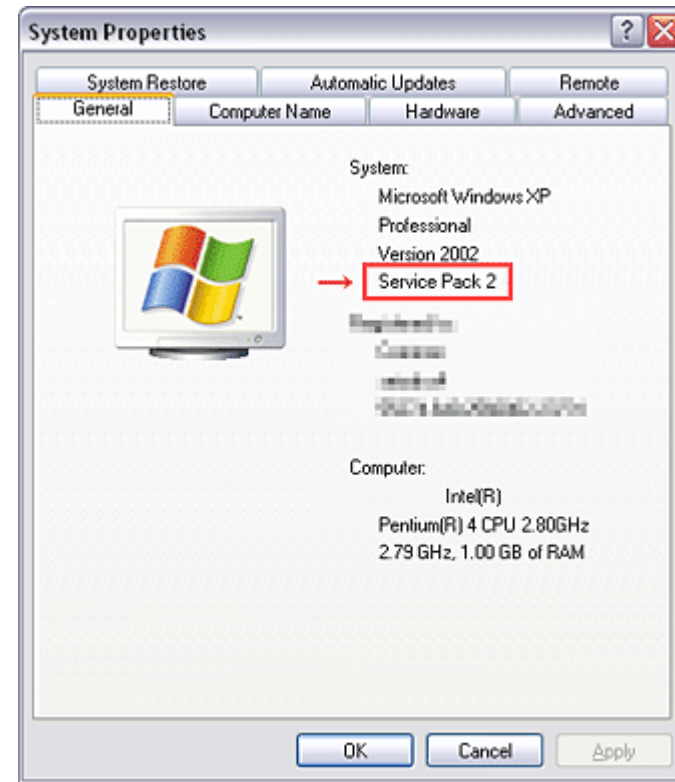
Autodesk DWF Viewer is necessary to view drawings and to activate the functions of this system. Please download and install.



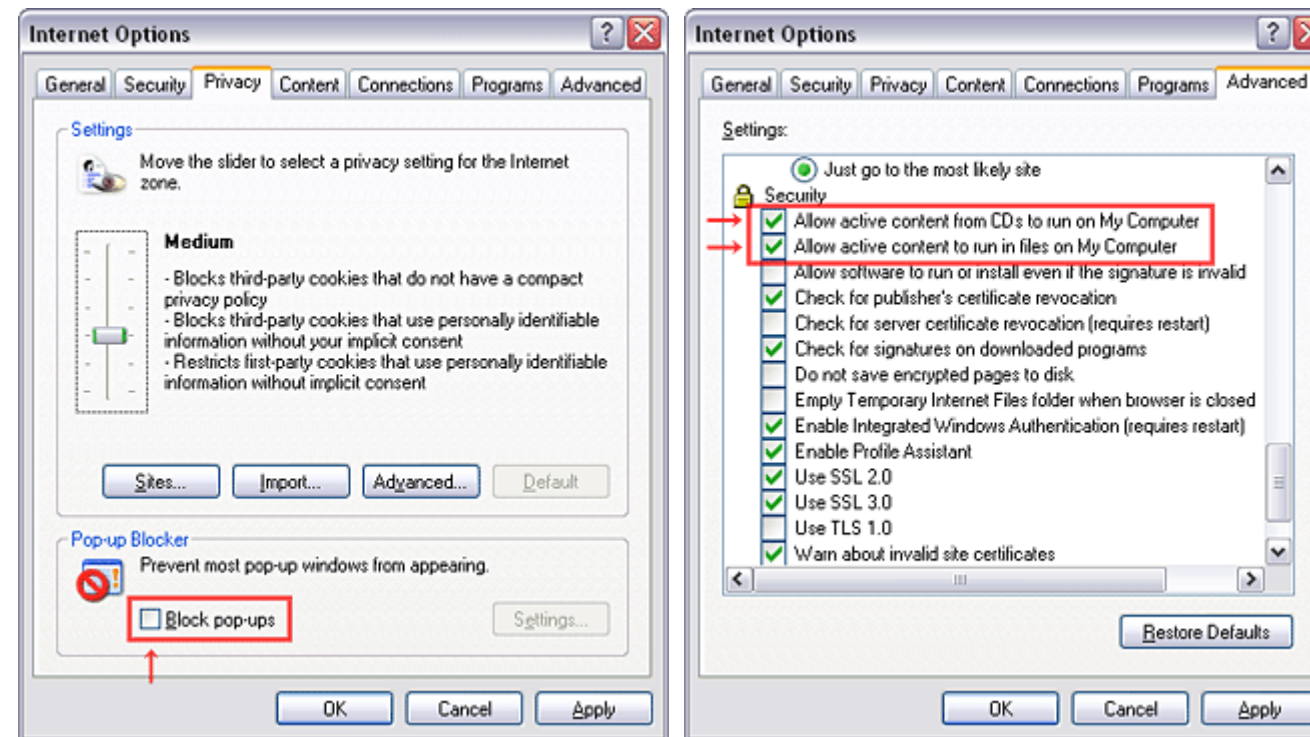
Internet Explorer Settings

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.

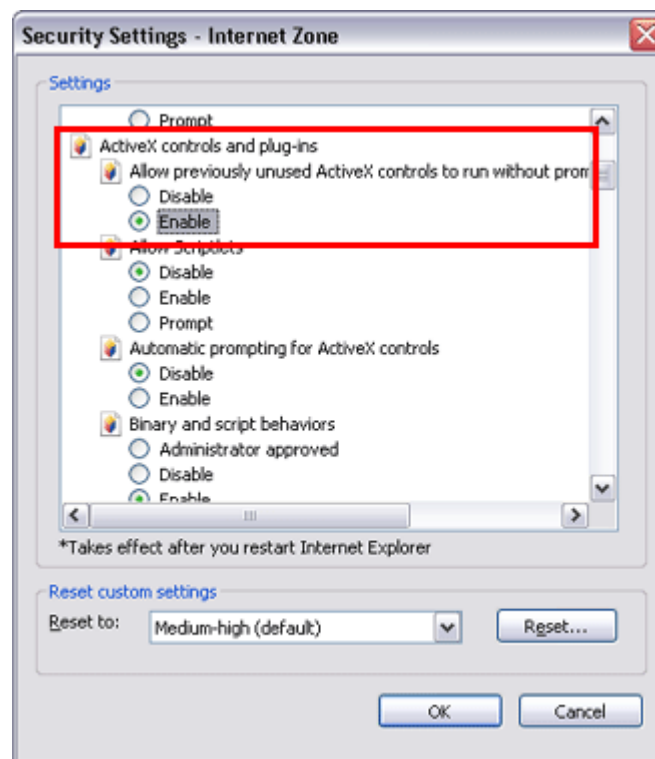
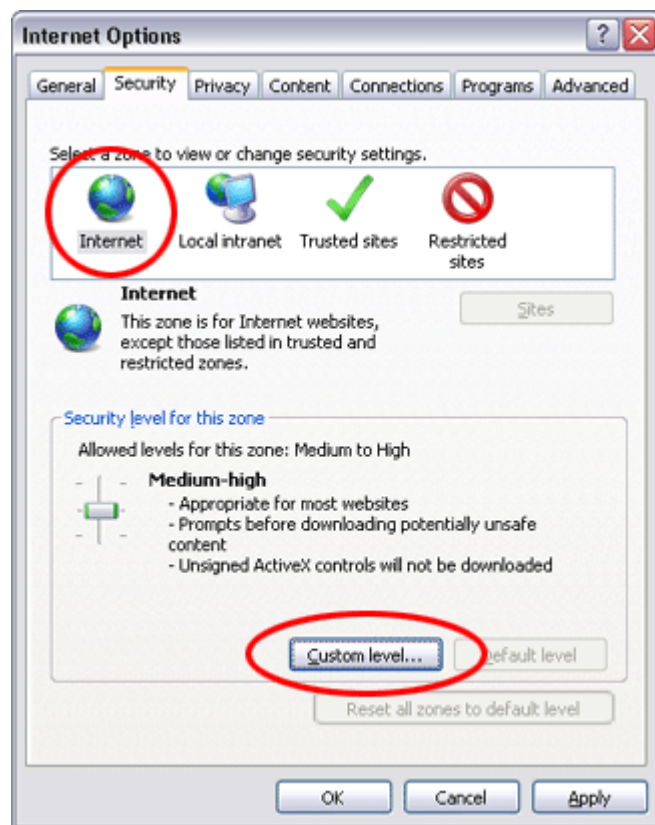
1. Windows version check
[My Computer (right-click)] - [Properties]



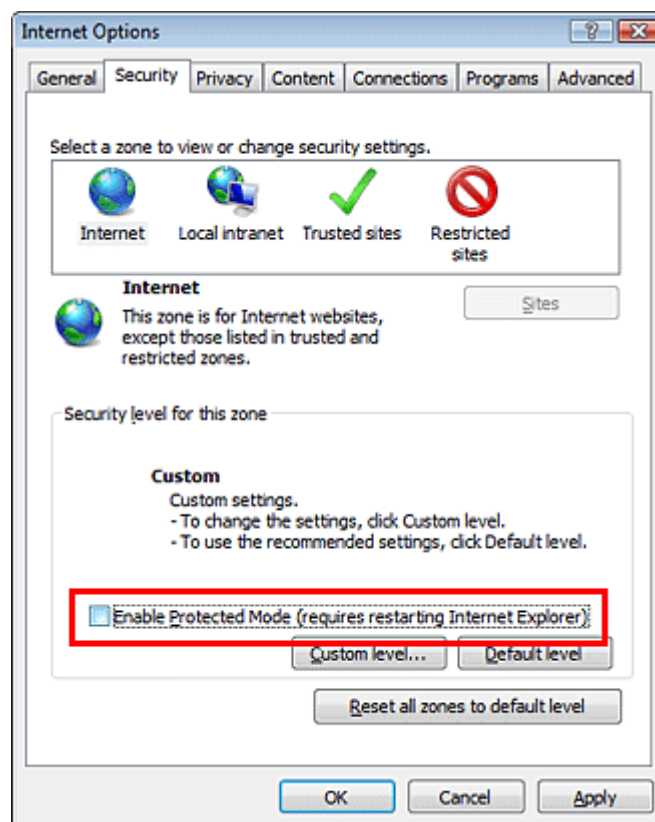
2. Internet Explorer setting
[Tools] - [Internet Options]



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.

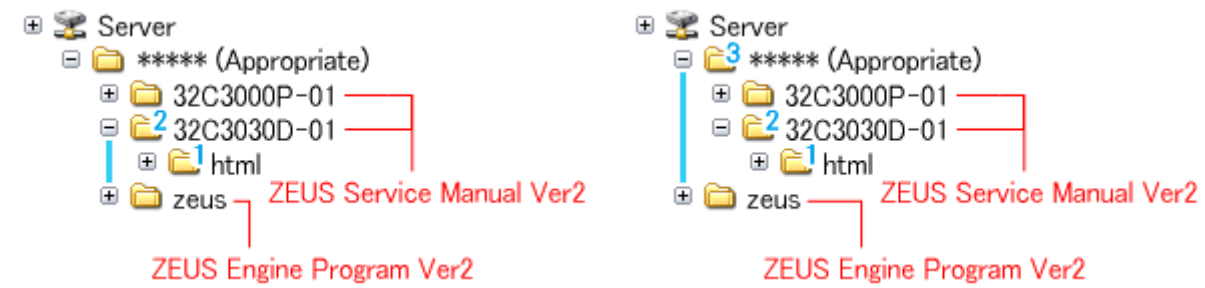
-> [Download zeusFPch_setup.zip \(2.3MB\)](#)

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.

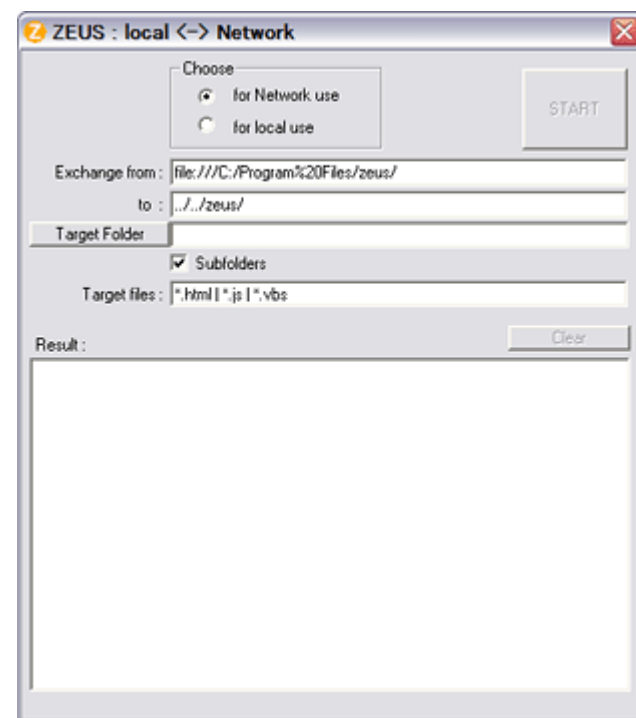
4. Move the ZEUS Engine Program of step 2 to the folder created at step 3 in the Server.
5. Detach the ZEUS Service Manual Ver.2 to the folder created at step 3 in the Server.
6. Unzip the ZEUS Service Manual Ver.2 within the folder in the Server.

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.

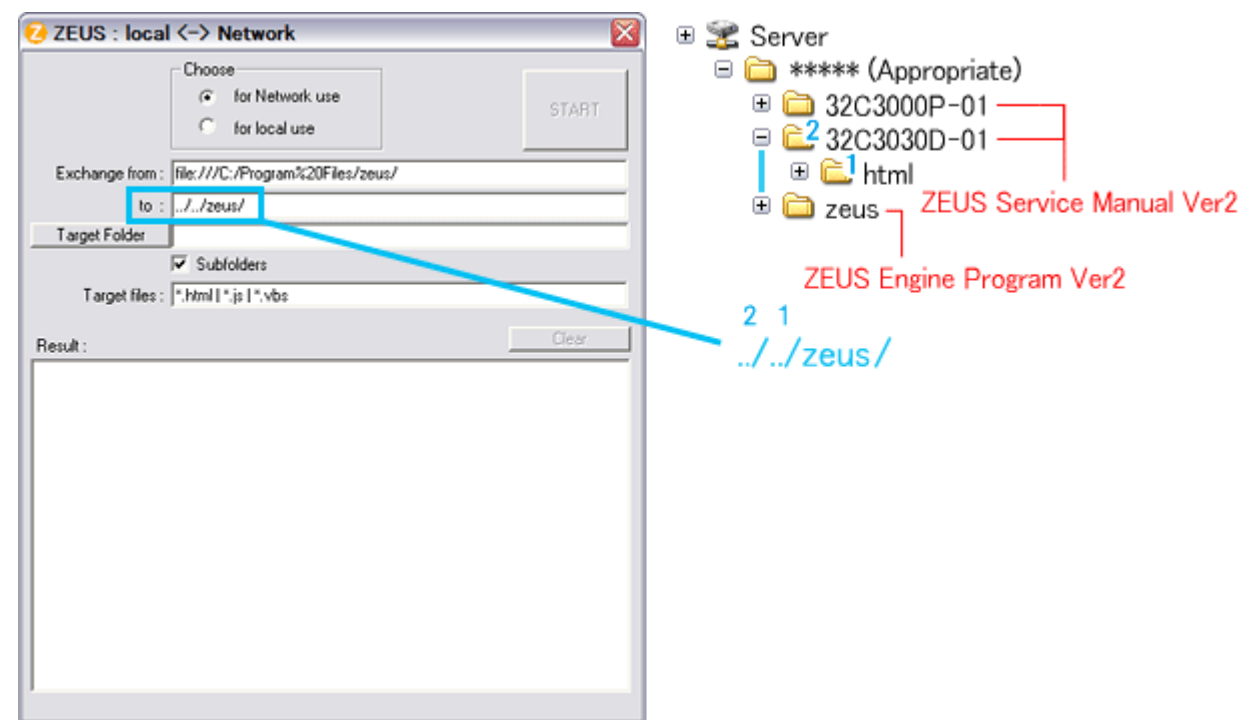
Run the zeusFPch and set "Exchange to" by referring to the examples below.

Example 1 :

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

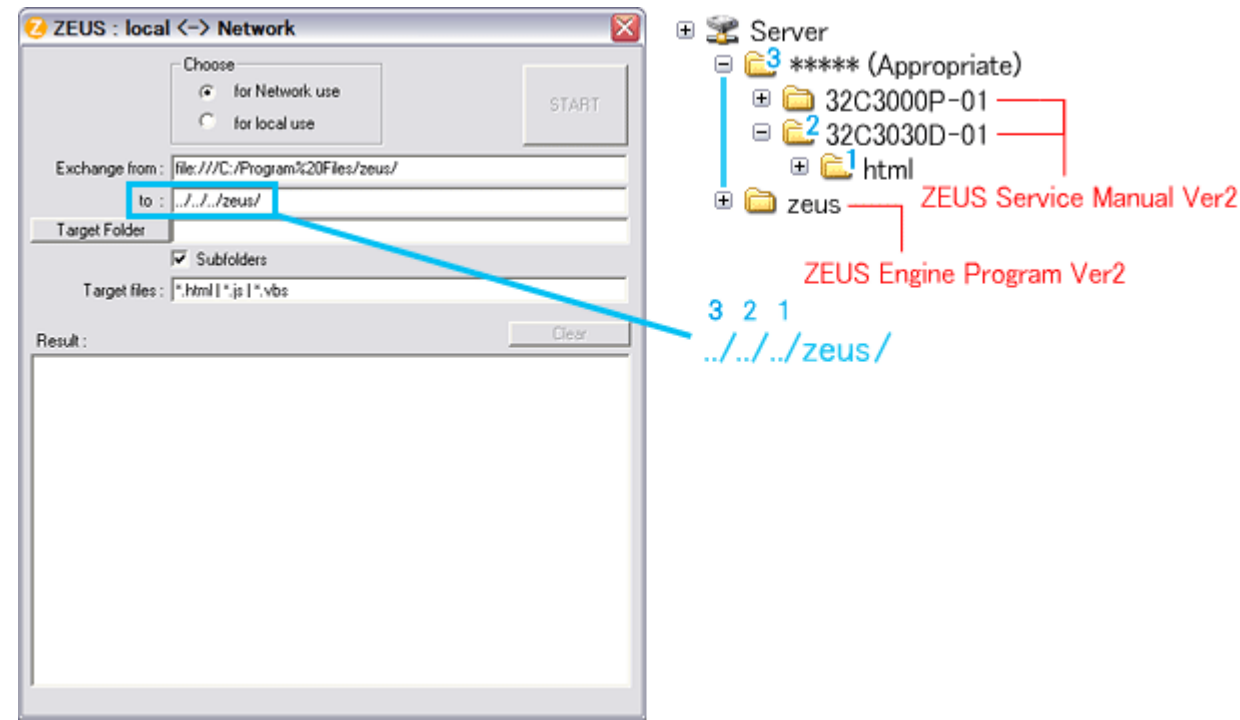
../ counts the relation between.

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

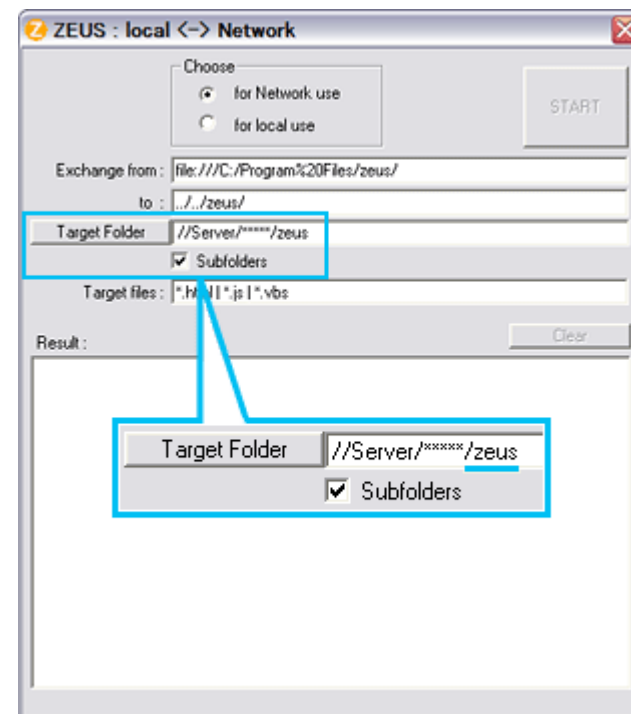


Example 2 :

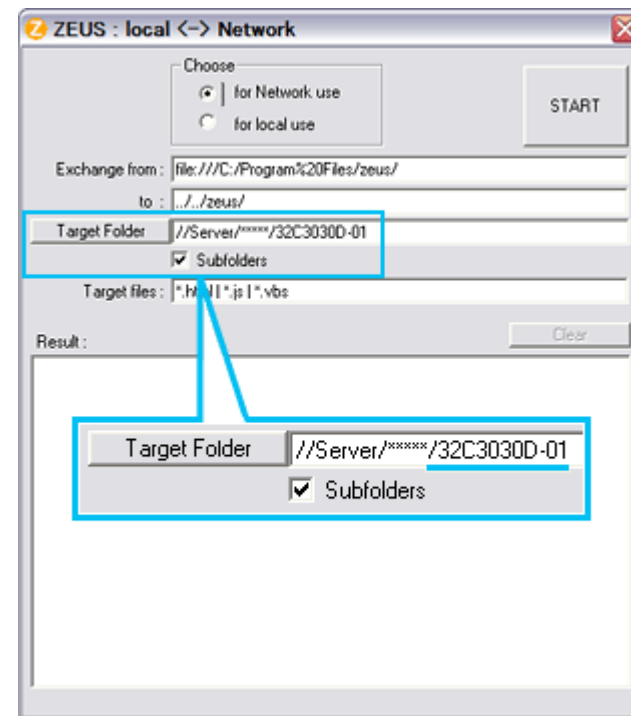
In this case, it must be **../../zeus/** (3 counts).



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

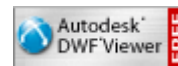
A Known Malfunction

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.

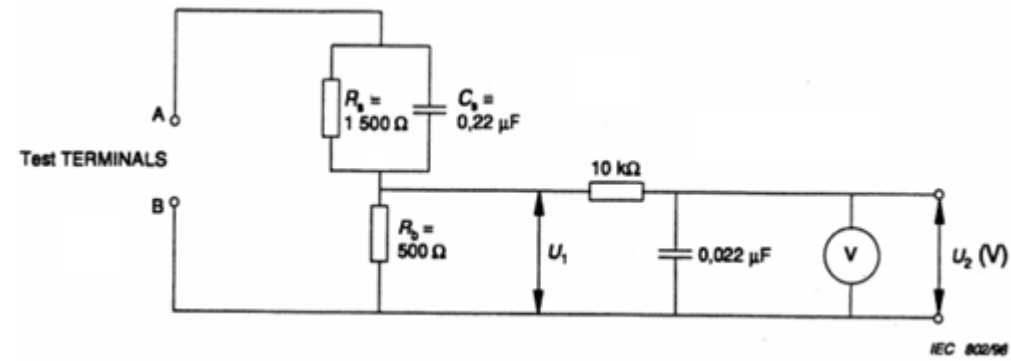
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.
3. When replacing a chassis in the cabinet, 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.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω).

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

Input resistance : $\geq 1 \text{ M}\Omega$
 Input capacitance : $\leq 200 \text{ pF}$
 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:

- The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
- 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.

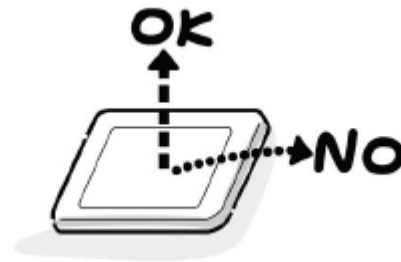
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the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



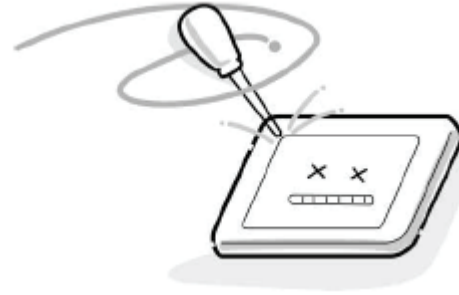
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.



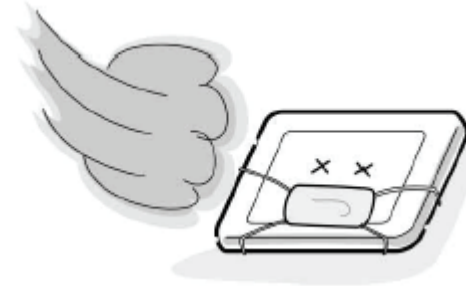
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.



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



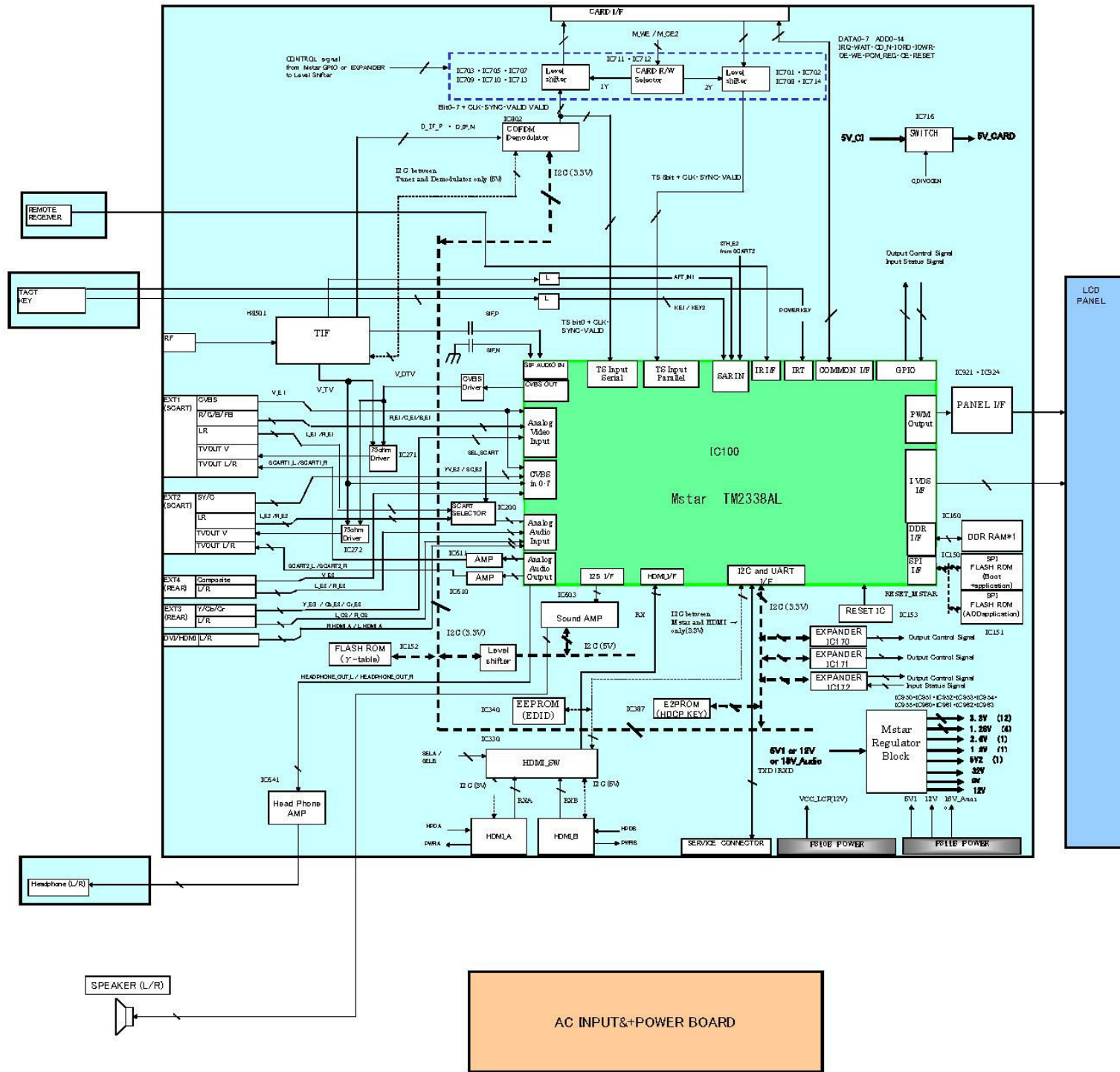
10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



U03A
MAIN

POWER

U02A
KEY/LED/RMT



USER SELECT	信号	Mstar入力
RF1	V	V_TV
SCART1(V)	V	V_E1
SCART1(RGB)	R G B	R_E1 G_E1 B_E1
SCART2(V)	V	YV_E2
SCART2(S)	Y	YV_E2
	C	SC_E2
VIDEO3(V)	V	Y_E3
VIDEO3(Y/Cb/Cr)	Cr Y Cb	Y_E3 Cb_E3 Cr_E3

[5V2]	IC960: 5V2	[3.3V]	IC950: +3.3V HDMI IC951: +3.3V CARD IC952: +3.3V VDDP +3.3V_VDD_LPLL +3.3V_D +3.3V_AVDD_MEMPLL +3.3V_AVDD_AD_C +3.3V_AVDD_SF +3.3V_AVDD_AU +3.3V_VDD_MPLL +3.3V_AVDD_OTG
[32V]	IC961: 32V	[1.26V]	IC953: +1.2V_AVDD_LV1 +1.2V_CORE
[9V]	IC962: 9V	[2.6V]	IC954: +2.6V_DDR
[VCC_Audio]	IC963: 1.2V	[1.8V]	IC955: +1.8V_DEMOD
		[5V]	5V2 → FL702 → 5V_C1

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 : ±10 %


G : ±2 %

F : ±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.

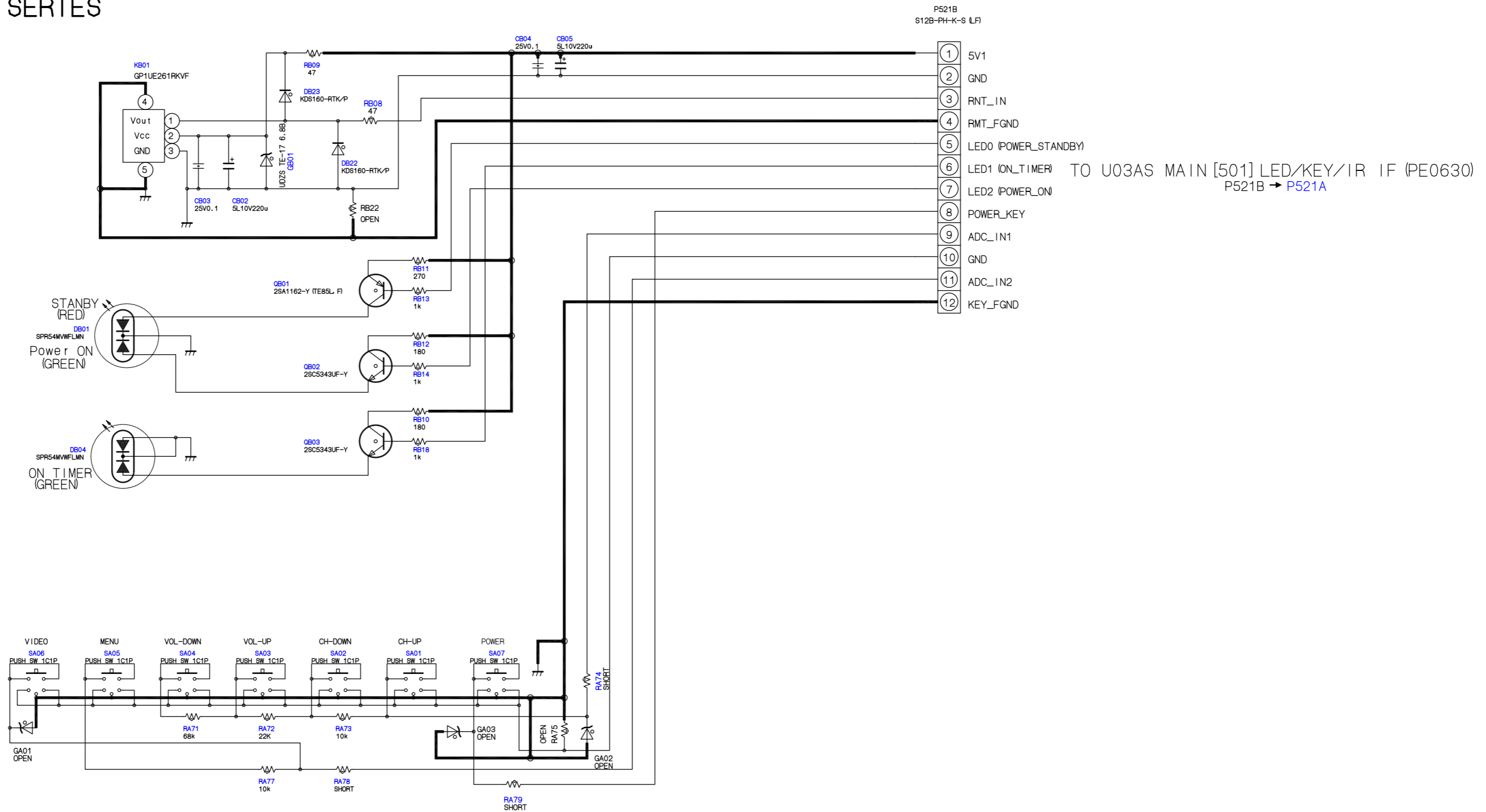
All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

 = Electrolytic capacitor

 = Mylar capacitor

3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. 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.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

for AV505D SERIES



U02A KEY/LED/RMT [8] KEY & LED (PE0491)

ネガティブフィードバックのラインは
直接GNDに落とさずに、
56Ωの付近まで引き出して繋いでください。

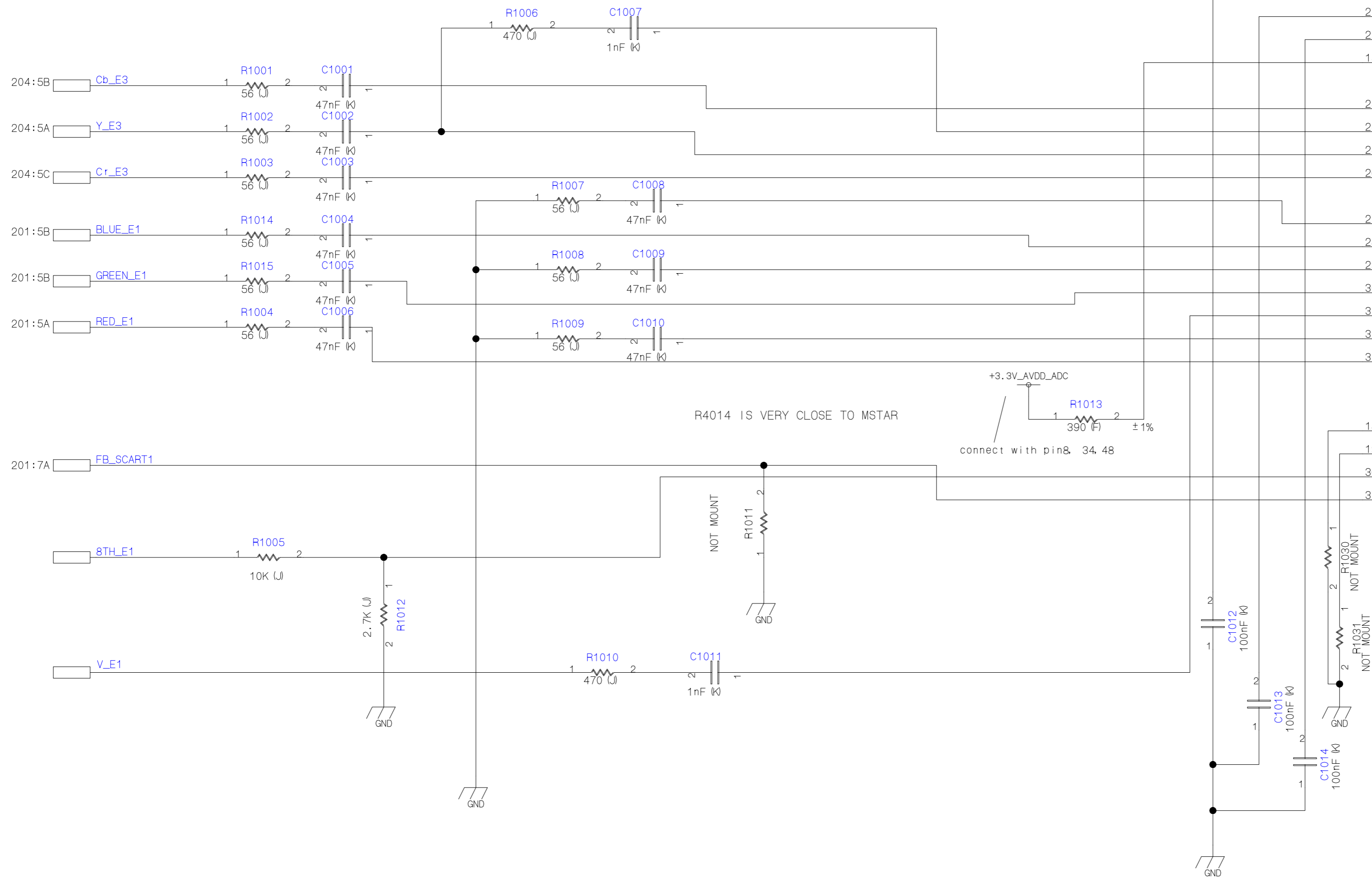
20071217 Zener diodes deleted

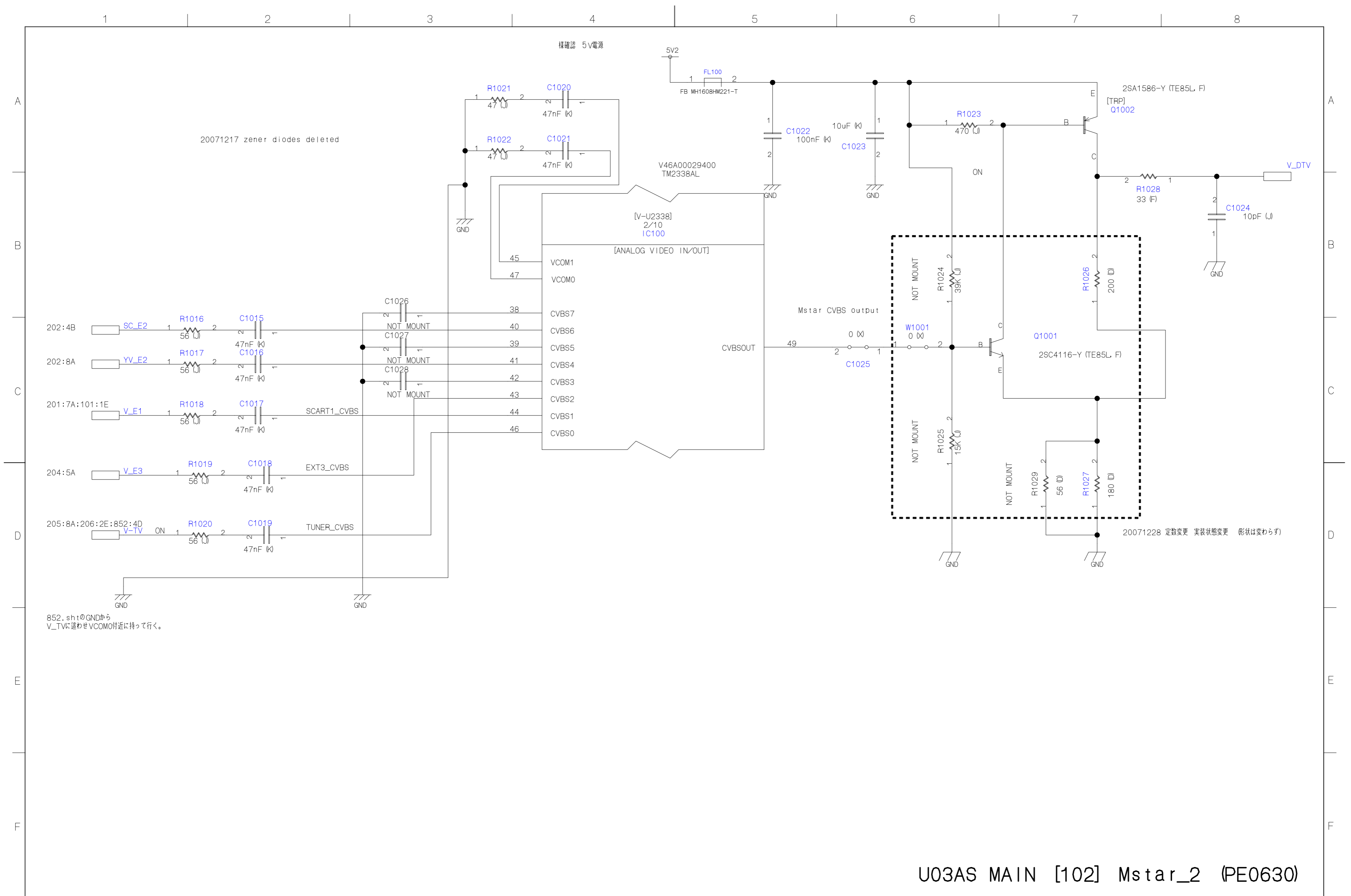
V46A00029400
TM2338AL

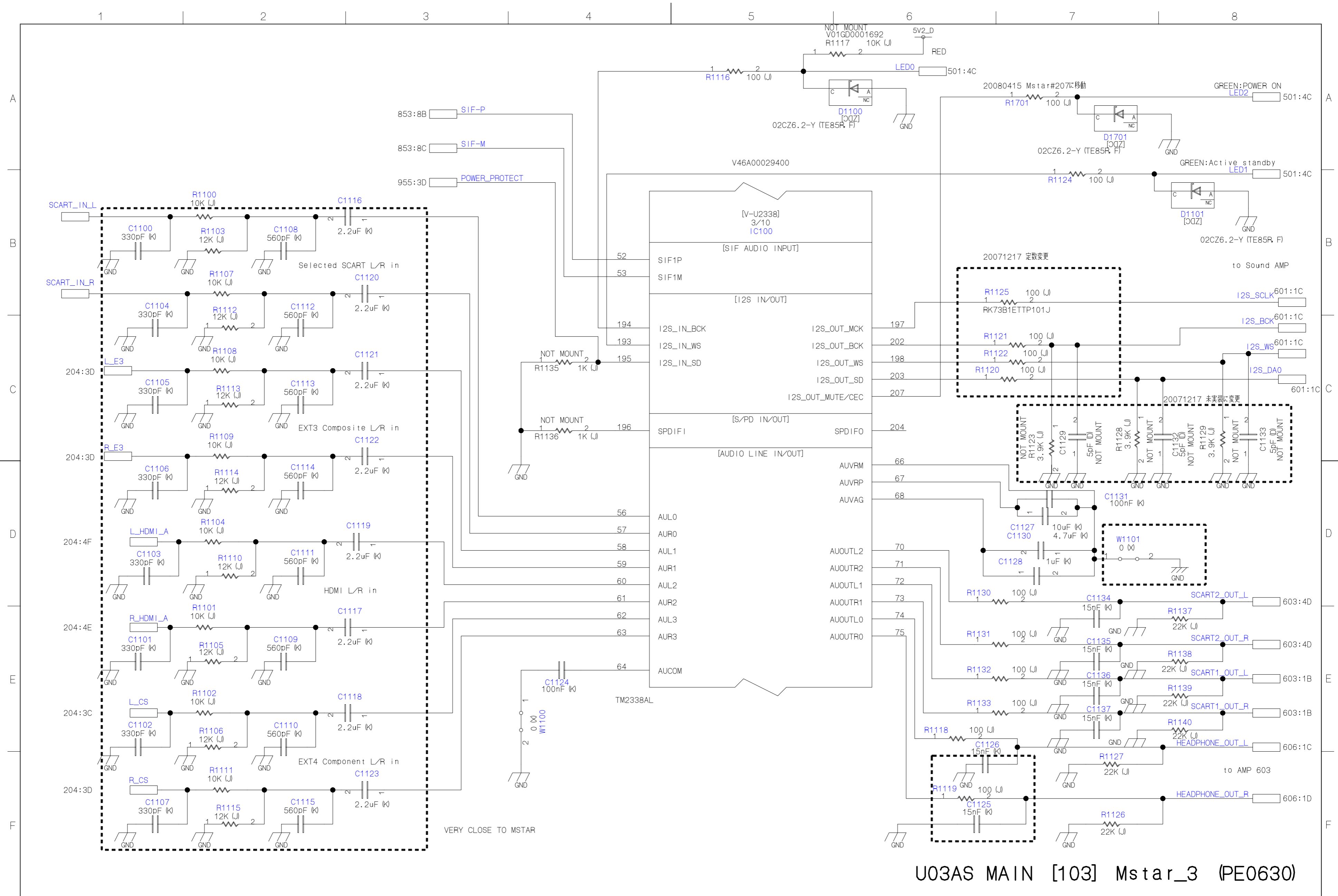
[V-U2338]
1/10
IC100

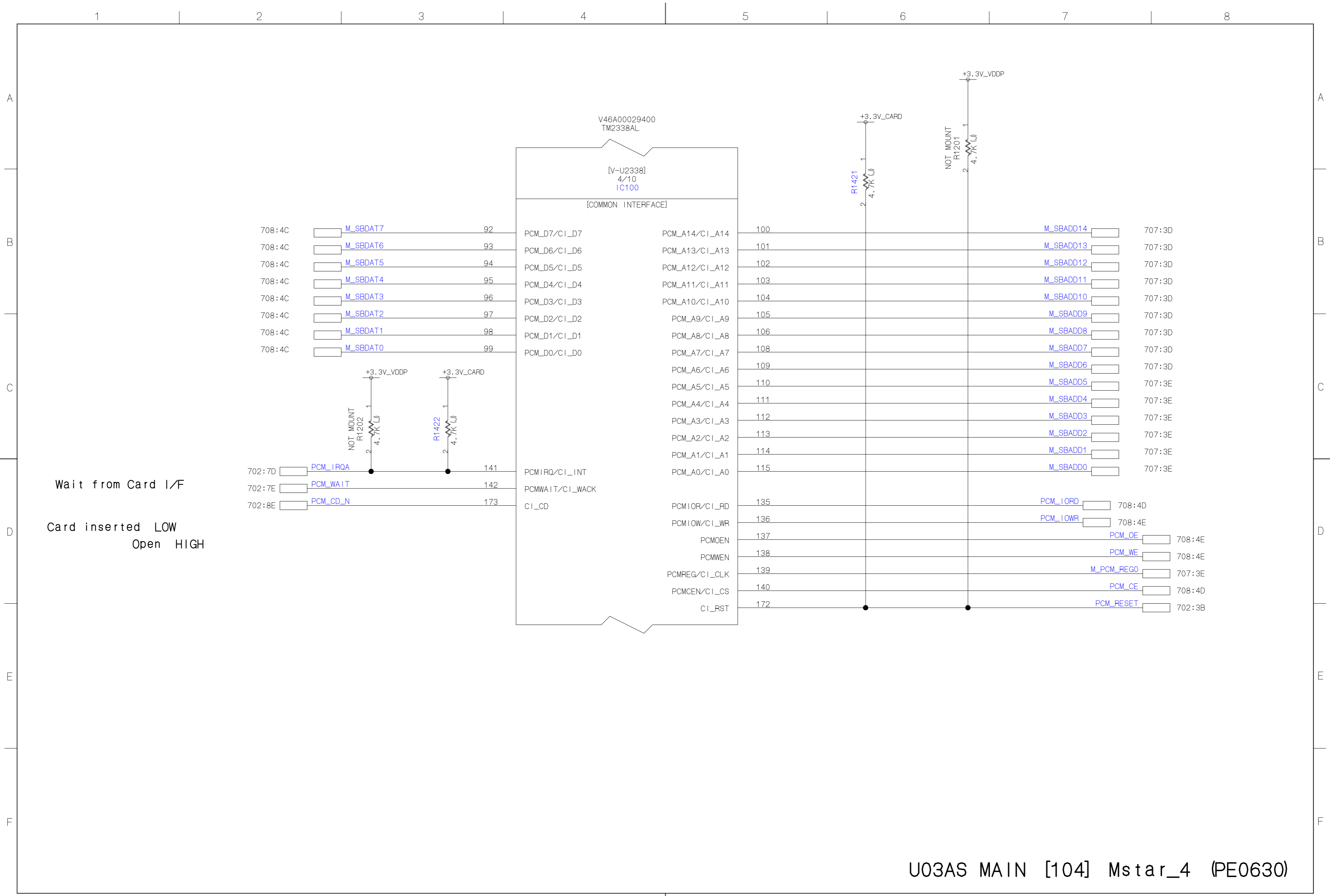
[ANALOG INTERFACE]

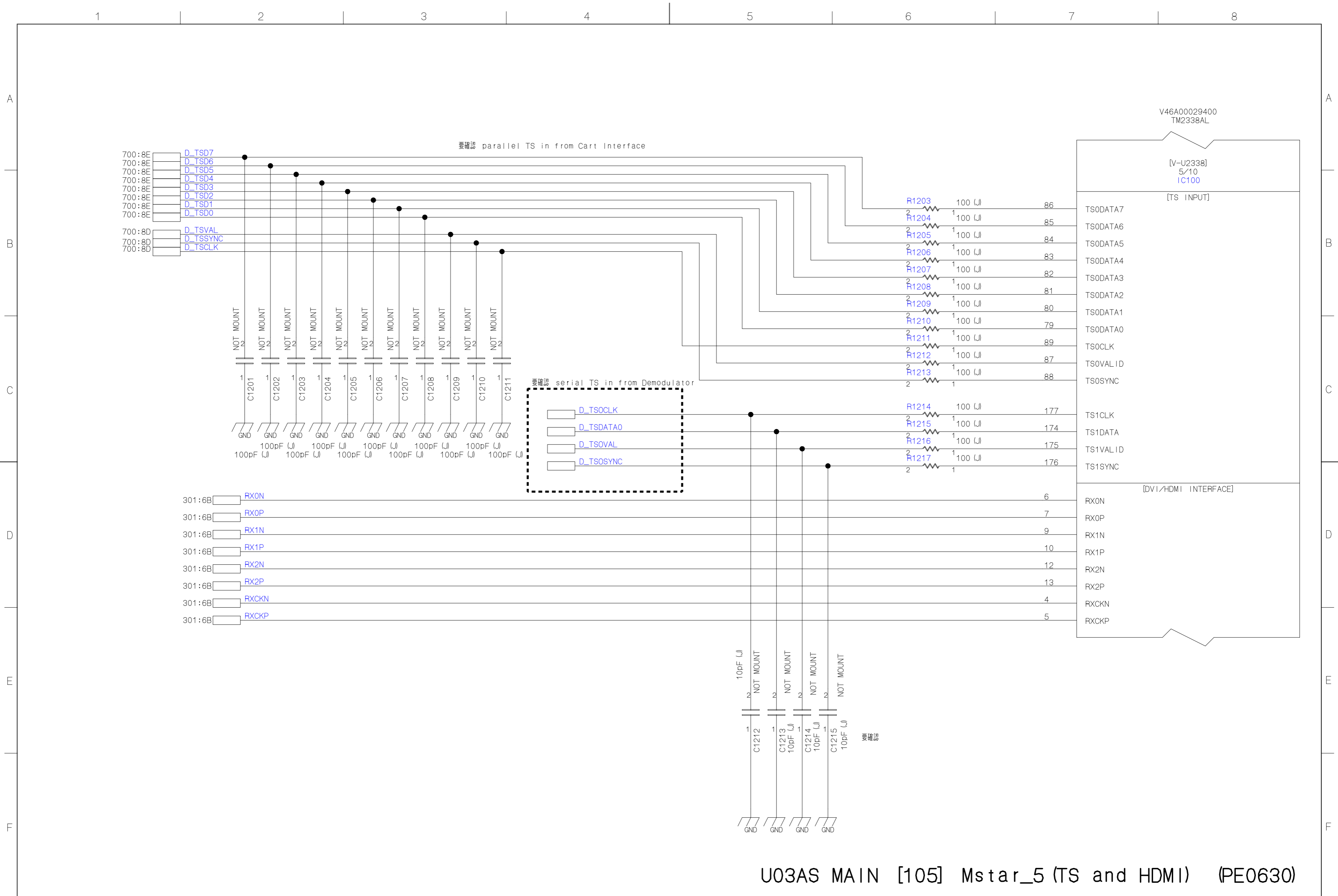
- 20 VCLAMP
- 21 REFP
- 22 REFM
- 15 REXT
- 23 BIN1P
- 24 SOGIN1
- 25 GIN1P
- 26 RIN1P
- 27 BINM
- 28 BINOP
- 29 GINM
- 30 GINOP
- 31 SOGINO
- 32 RINM
- 33 RINOP
- 18 HSYNC1
- 19 VSYNC1
- 36 HSYNC0
- 37 VSYNC0



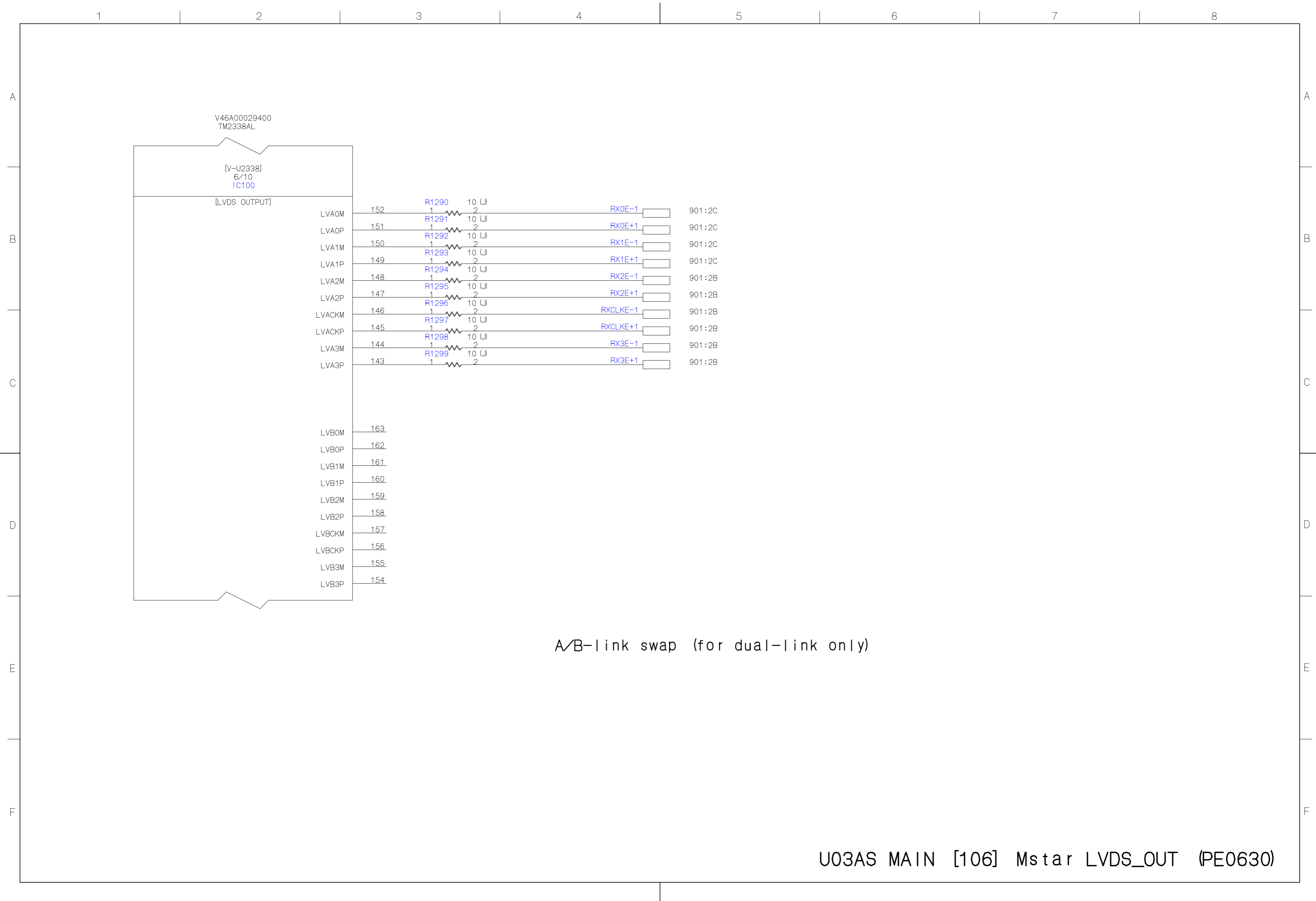


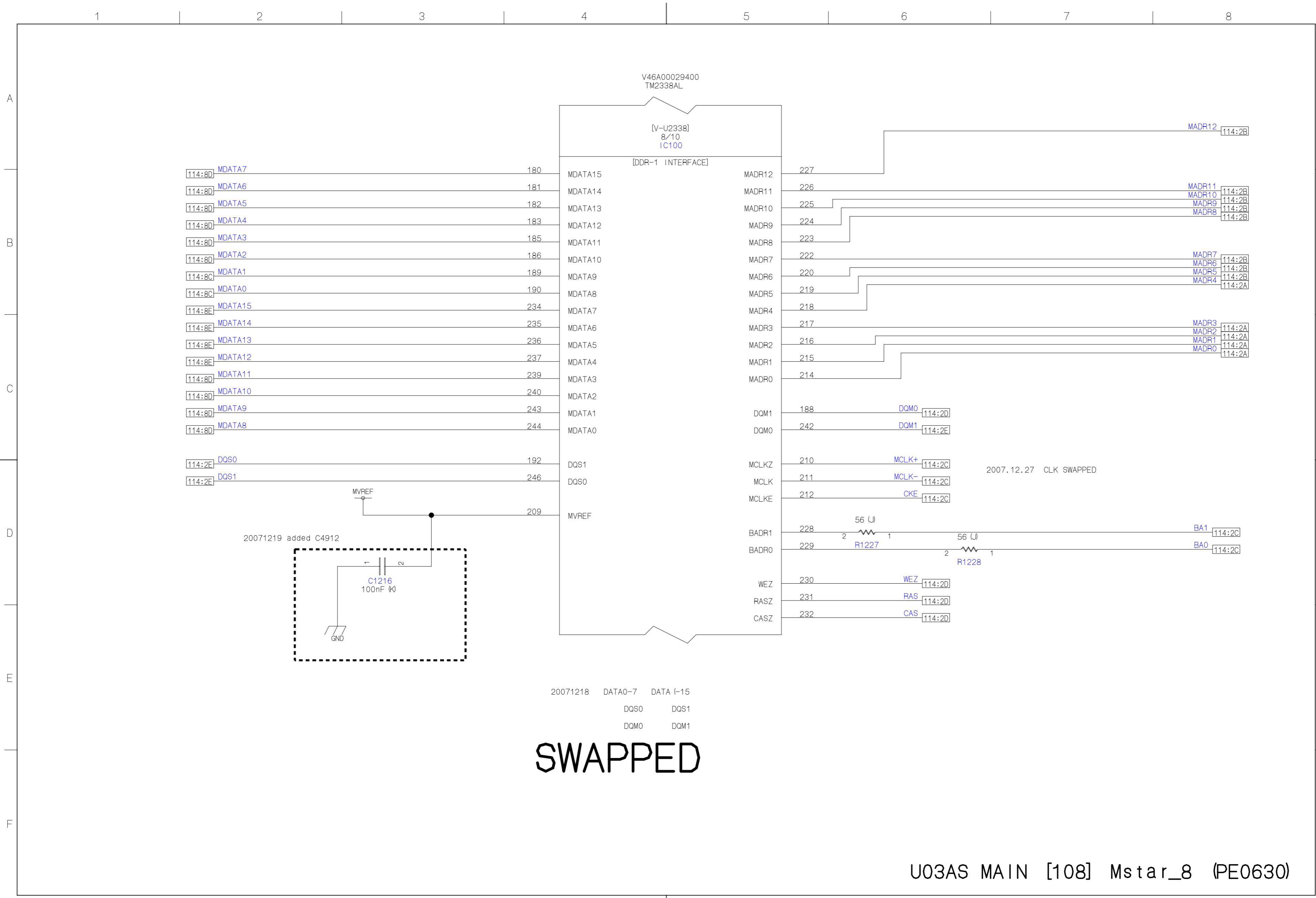




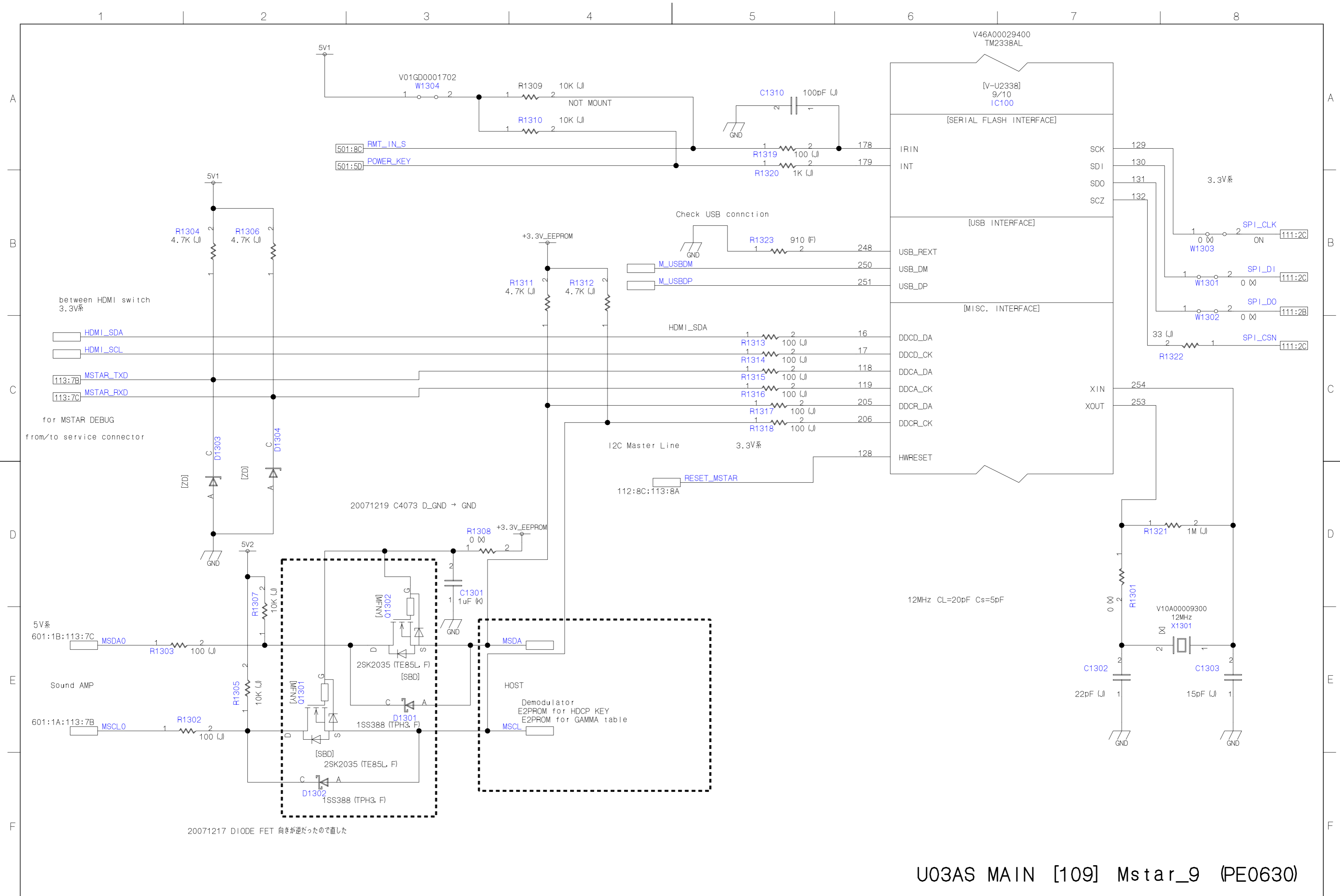


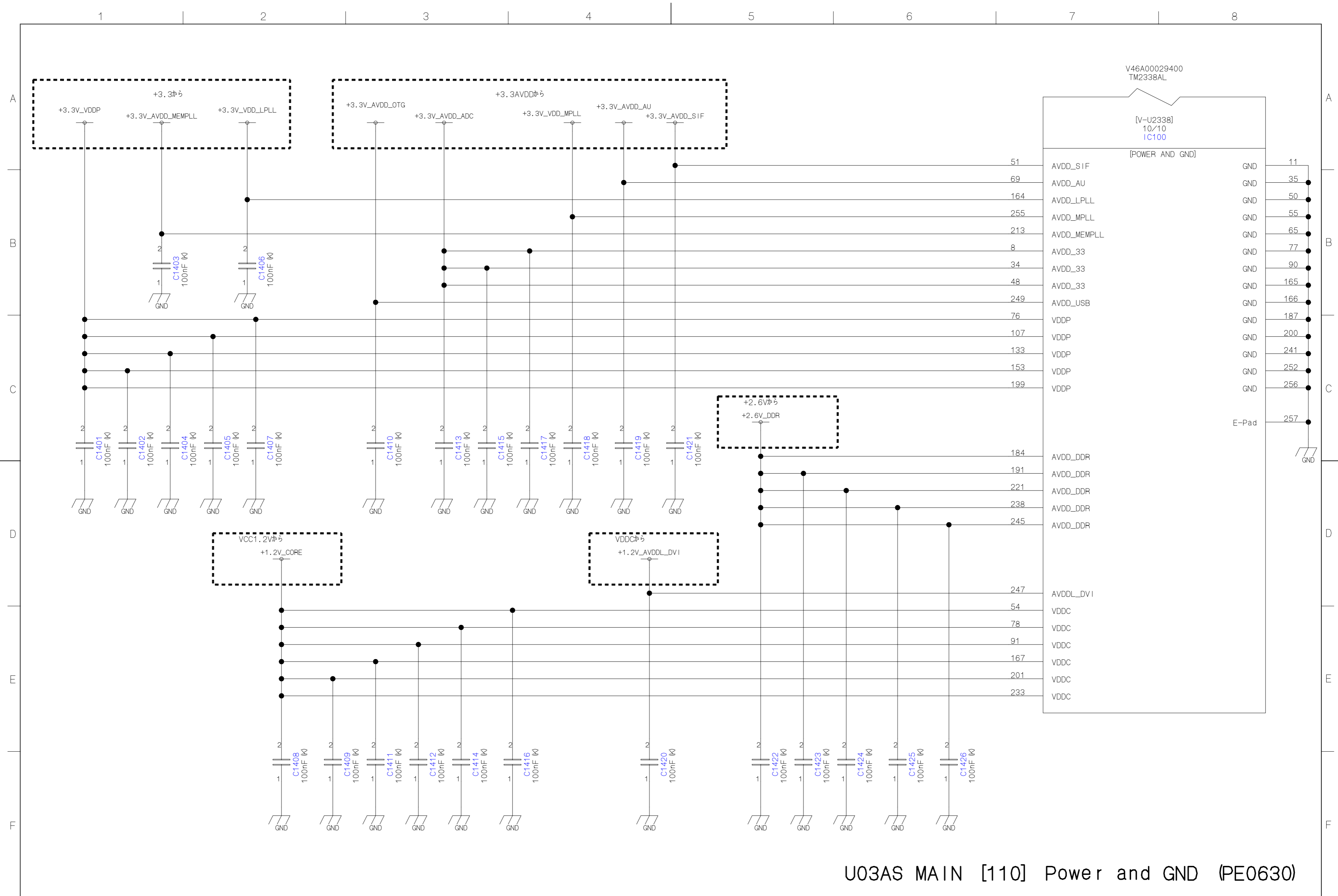
U03AS MAIN [105] Mstar_5 (TS and HDMI) (PE0630)





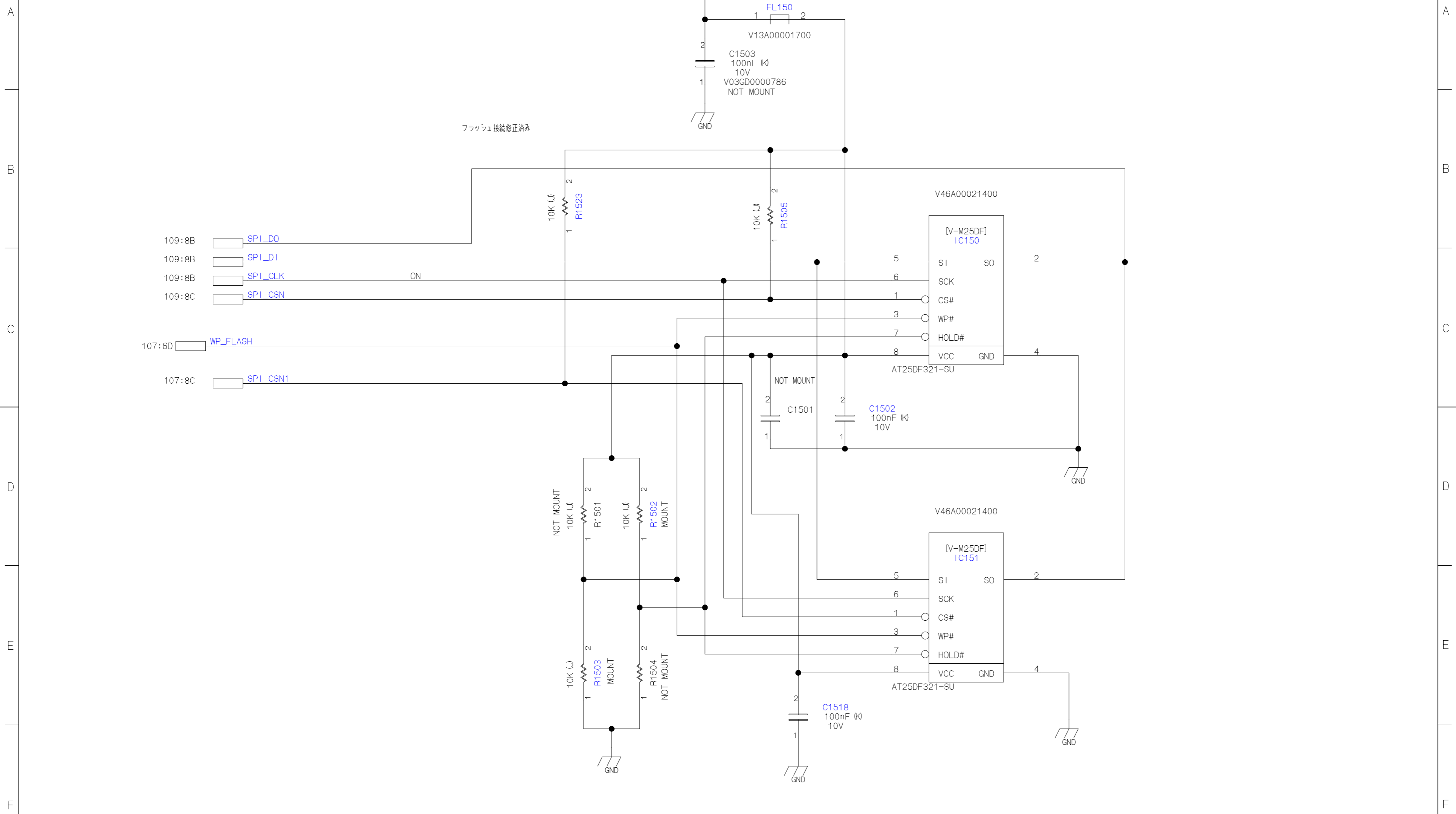
SWAPPED





U03AS MAIN [110] Power and GND (PE0630)

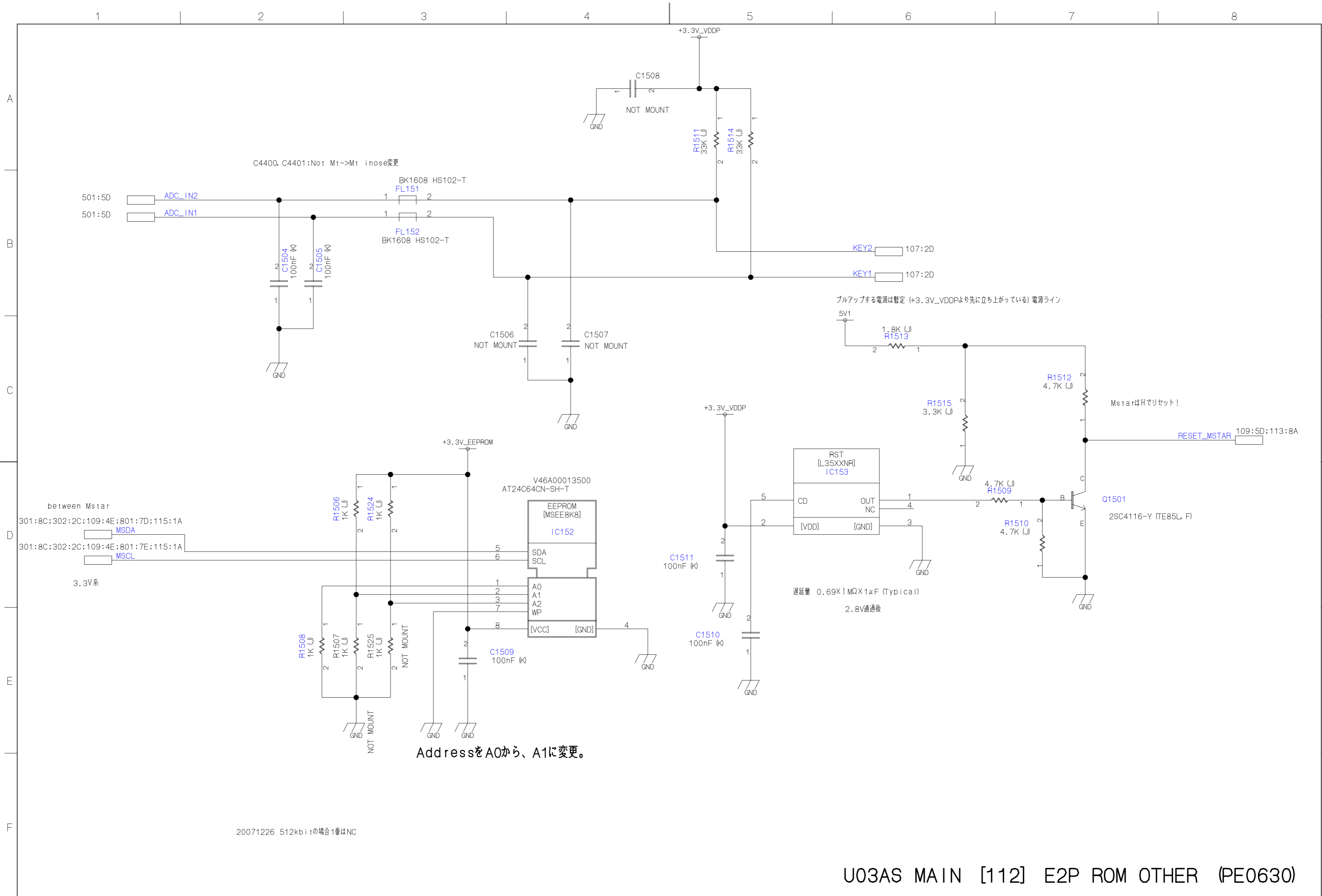
1 2 3 4 5 6 7 8



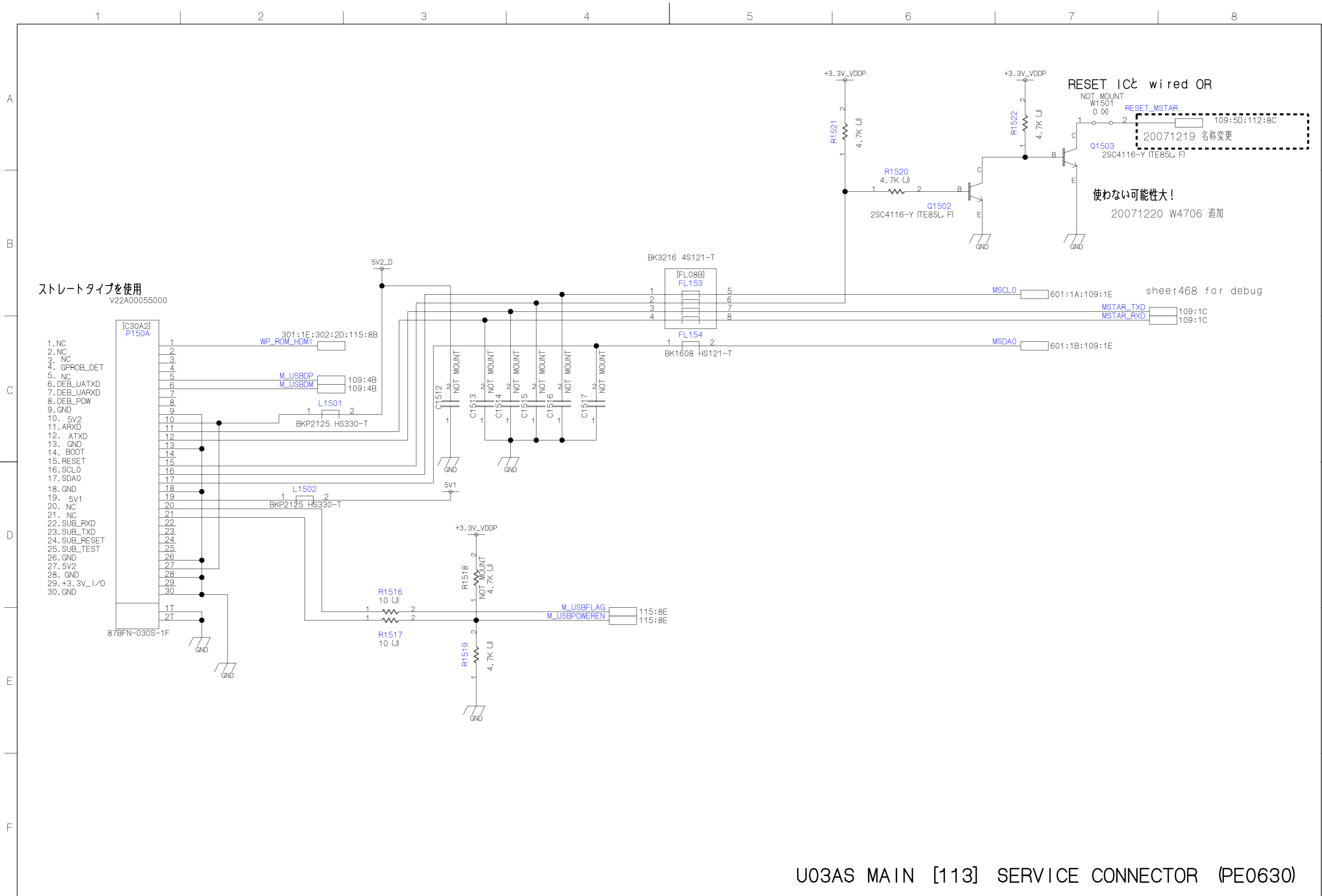
フラッシュ接続修正済み

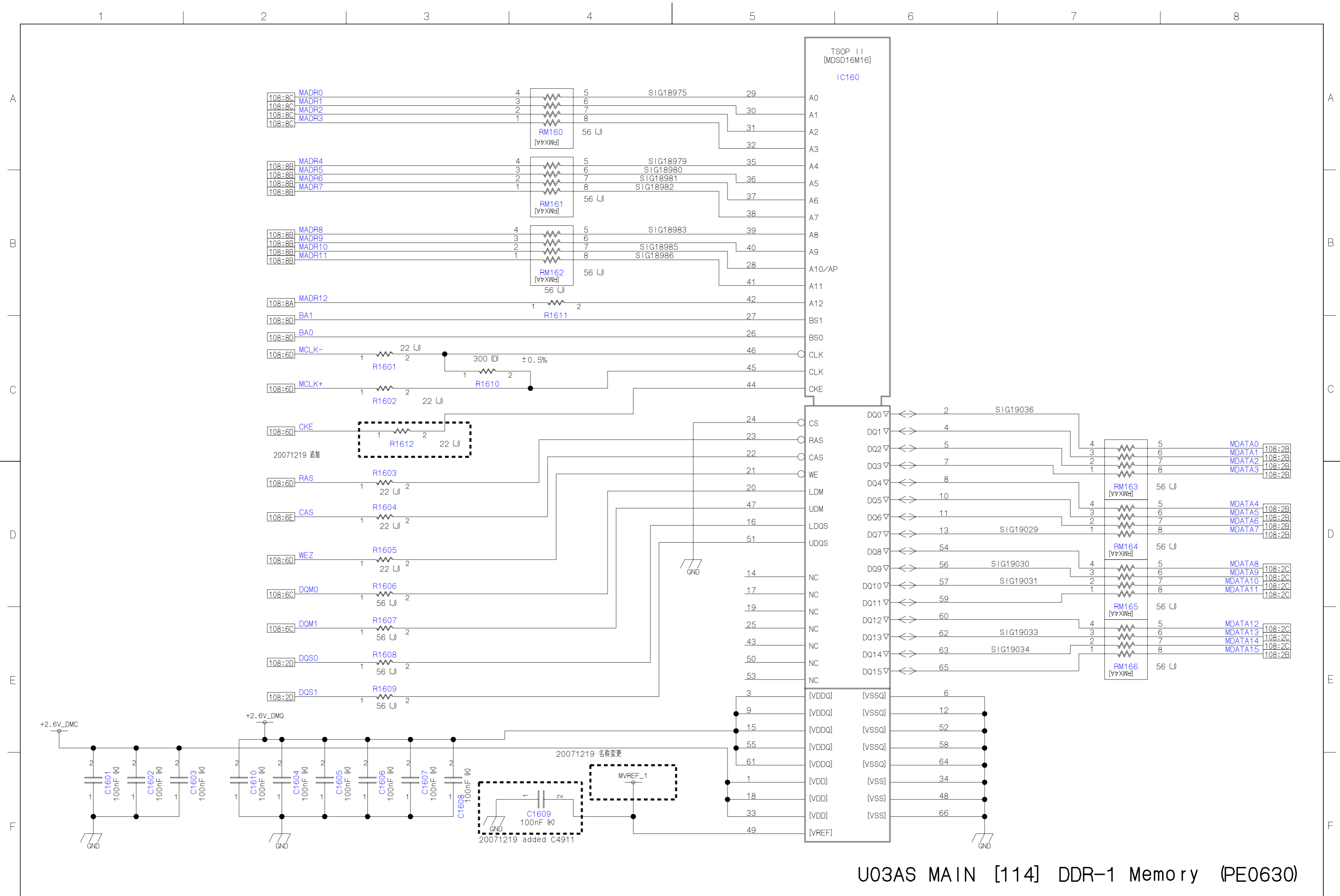
IC420の近くに配置して下さい

U03AS MAIN [111] FLASH MEMORY (PE0630)

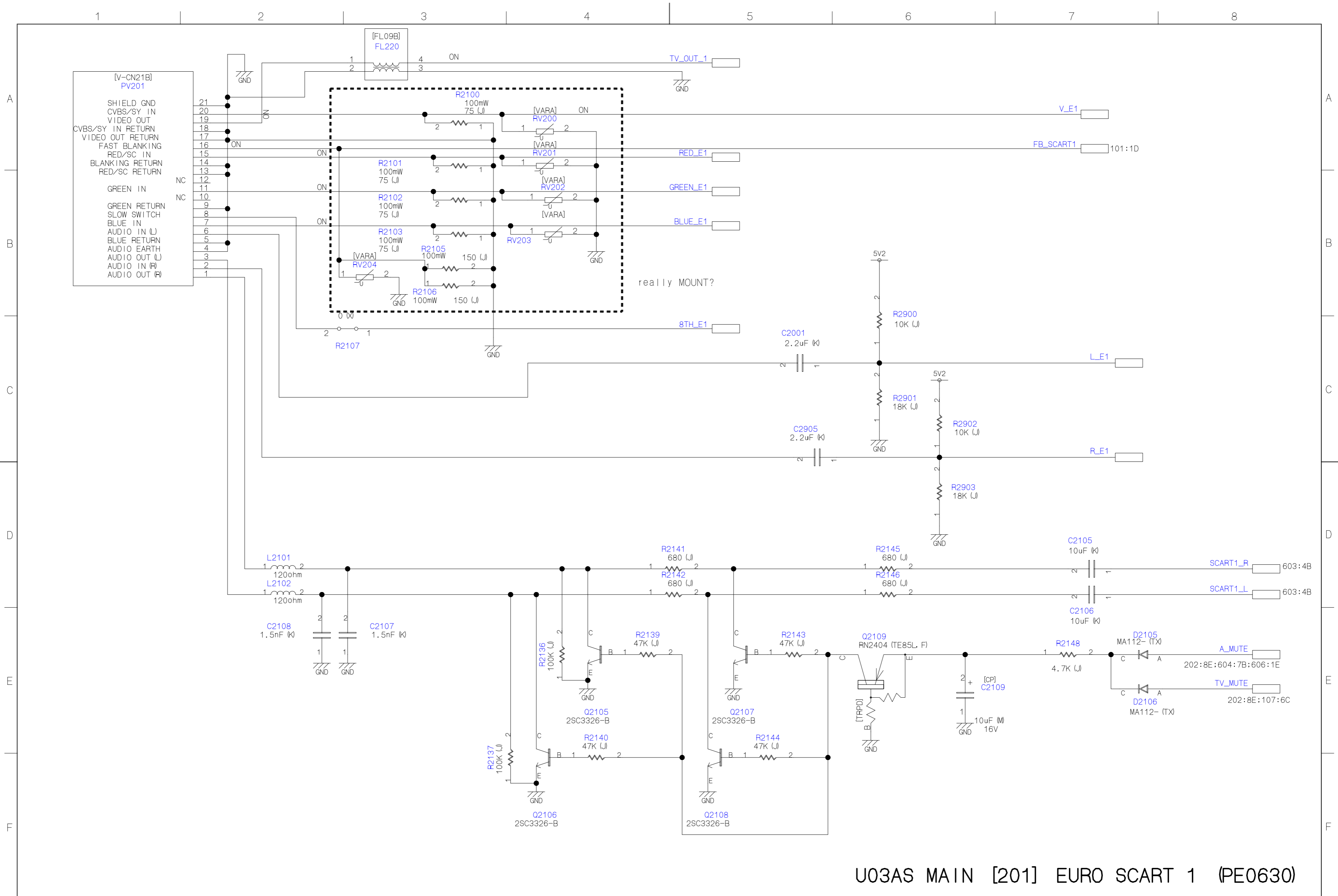


20071226 512kbitの場合1番はNC

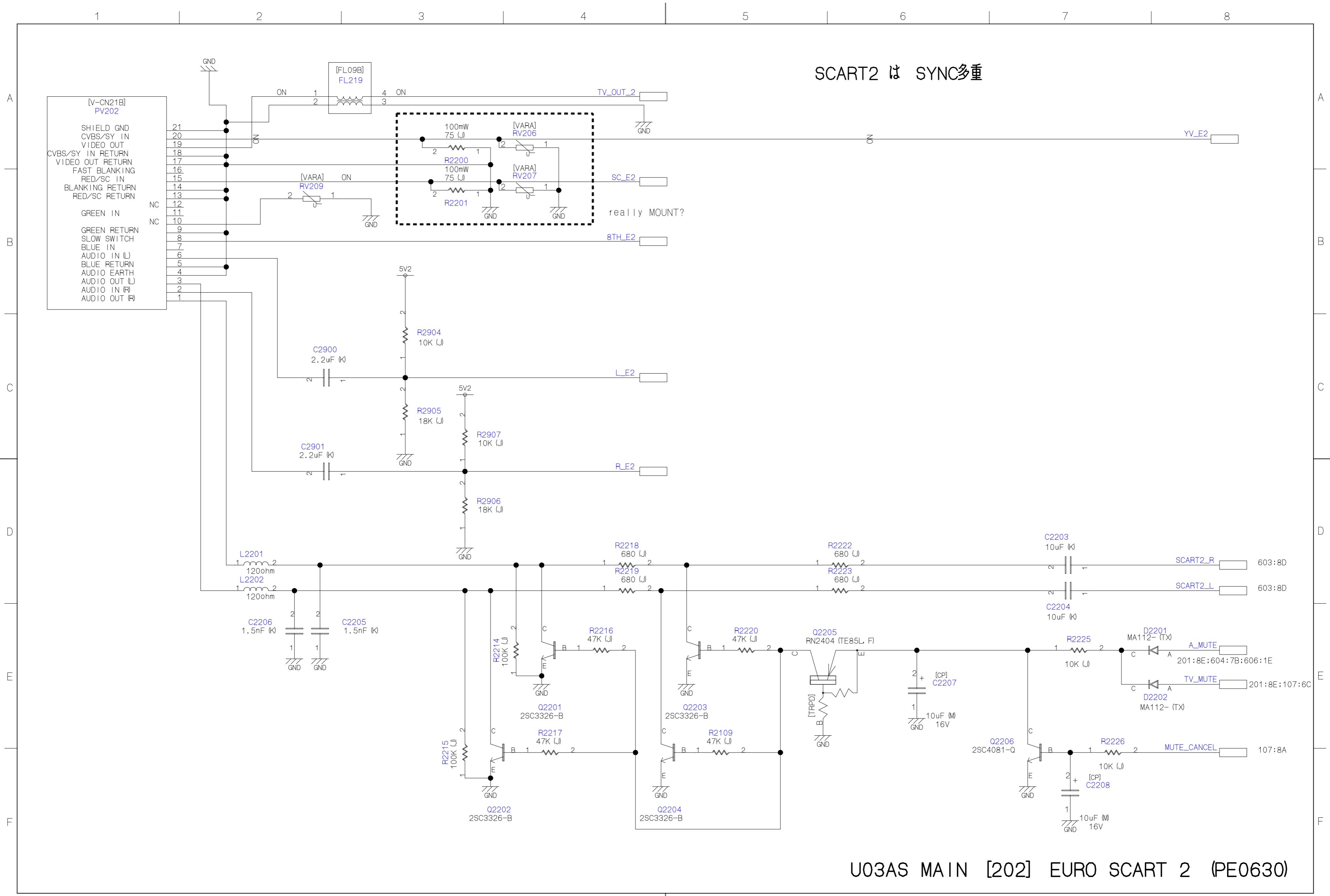




U03AS MAIN [114] DDR-1 Memory (PE0630)



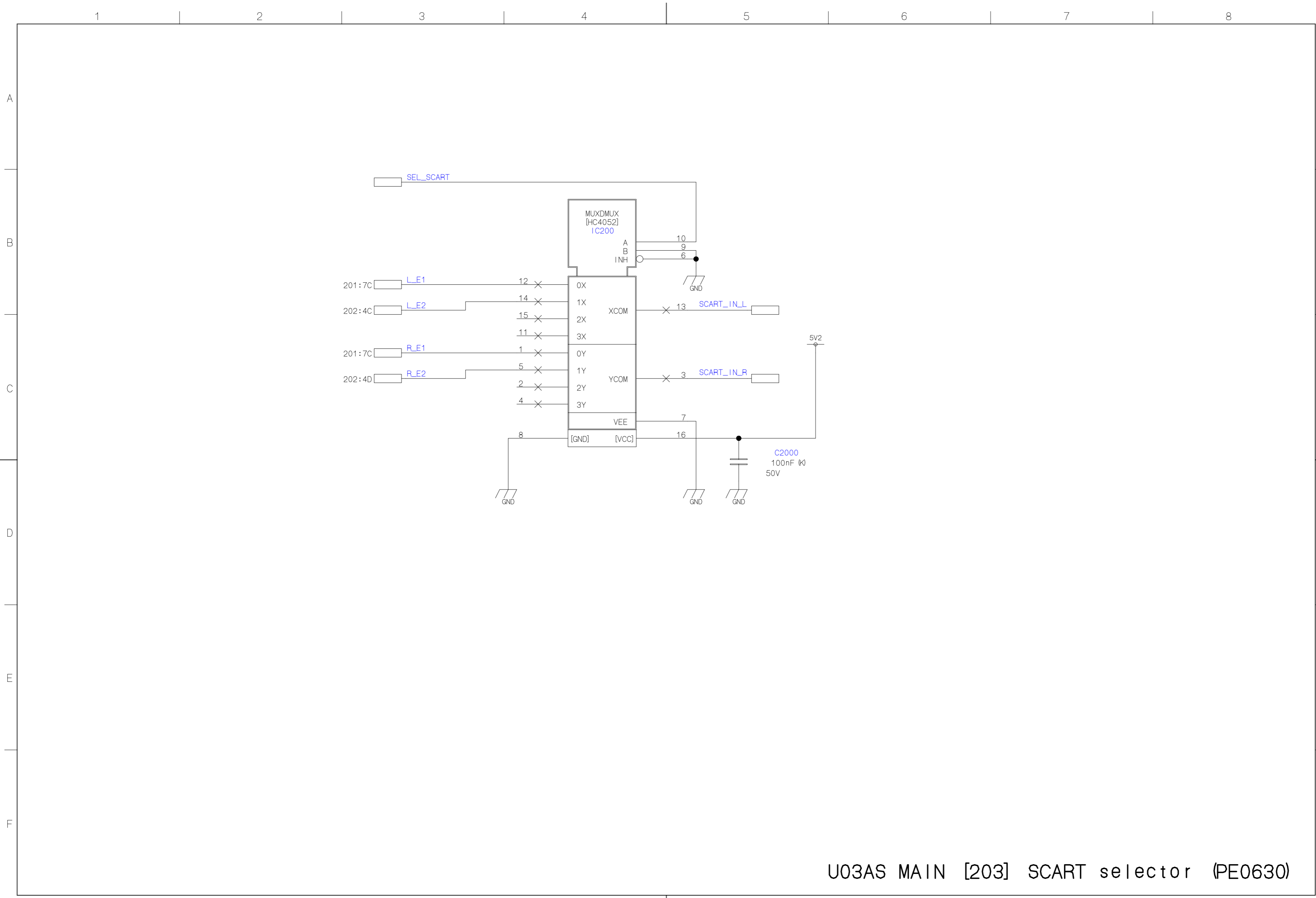
U03AS MAIN [201] EURO SCART 1 (PE0630)



SCART2 は SYNC多重

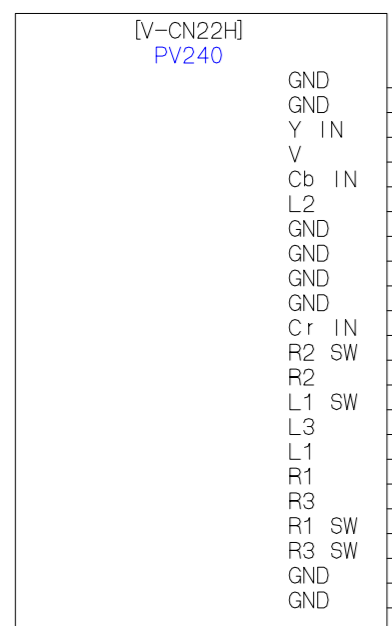
really MOUNT?

U03AS MAIN [202] EURO SCART 2 (PE0630)



U03AS MAIN [203] SCART selector (PE0630)

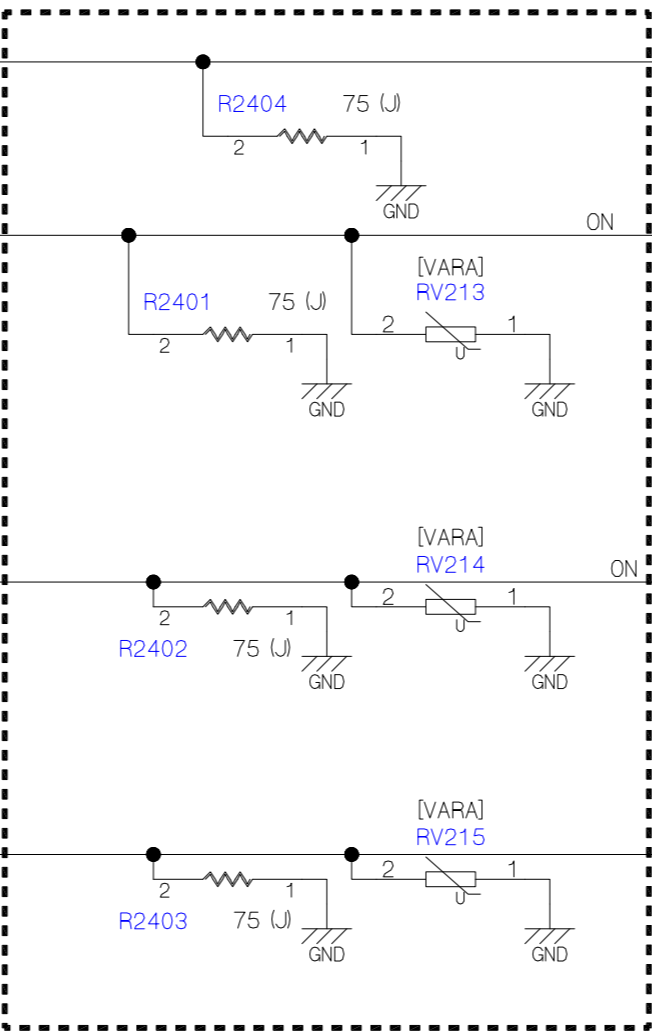
PV240はMP基板から左右反転させました。



~~音声仕様~~

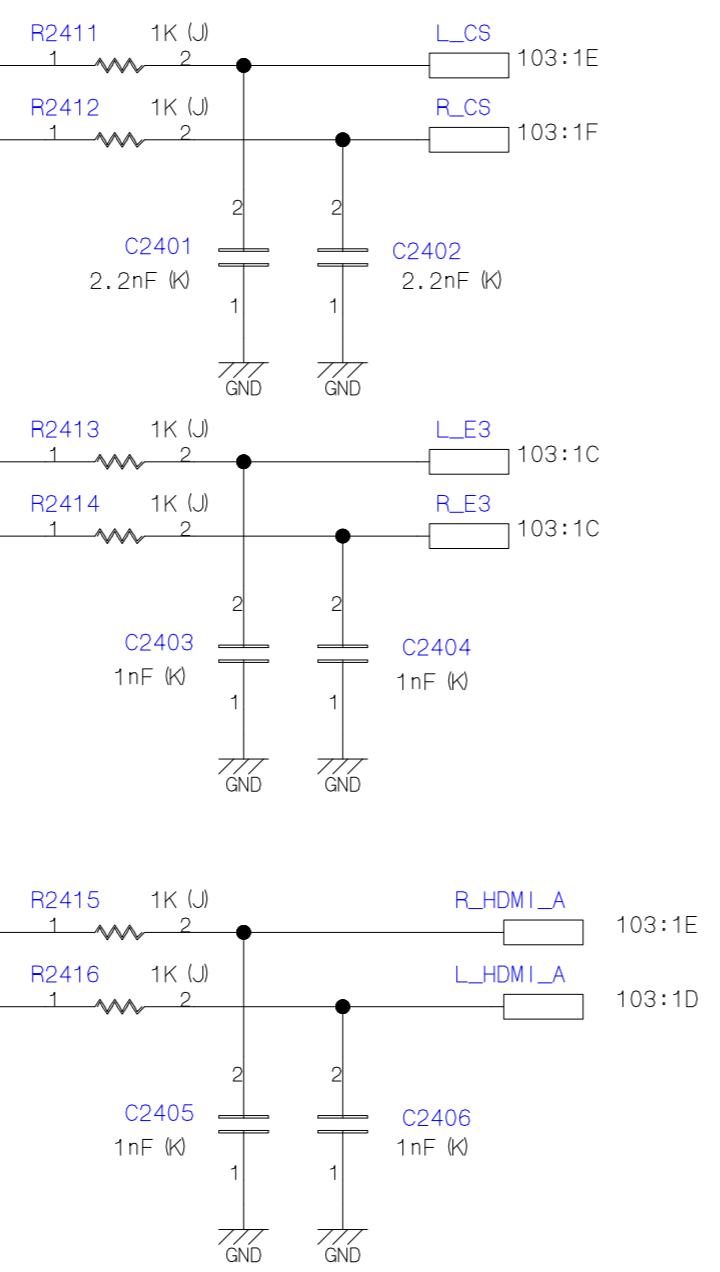
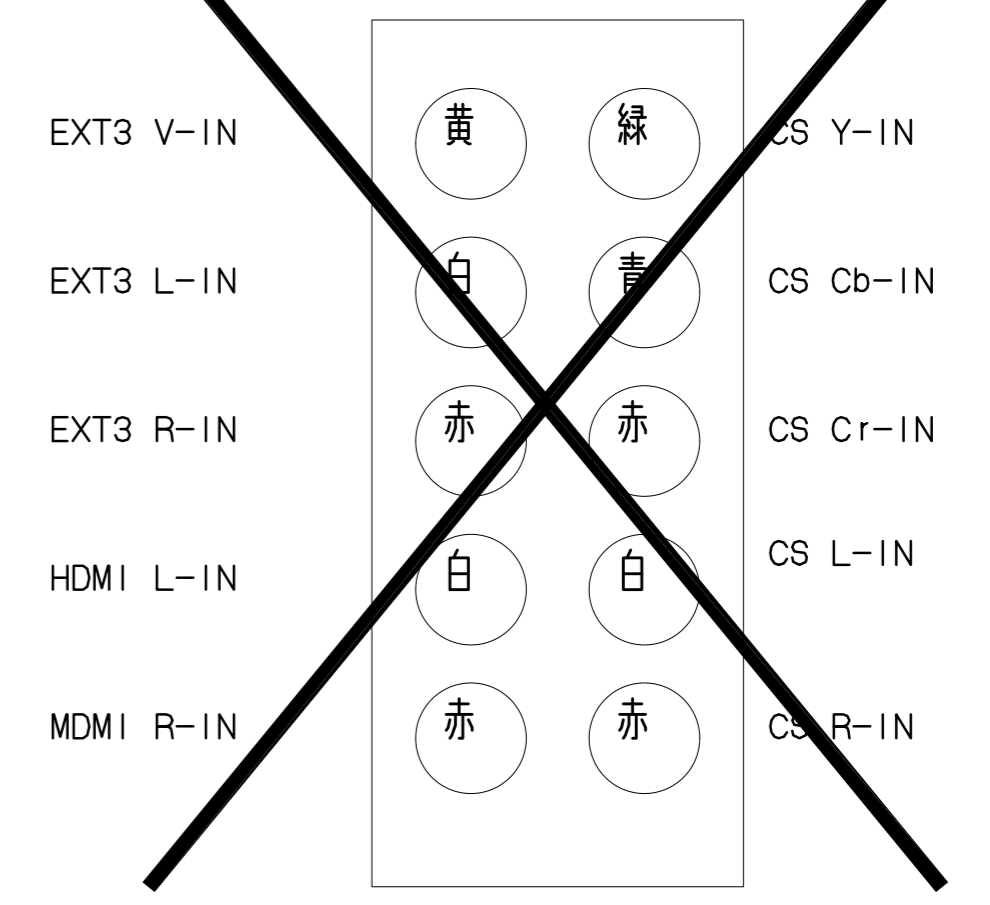
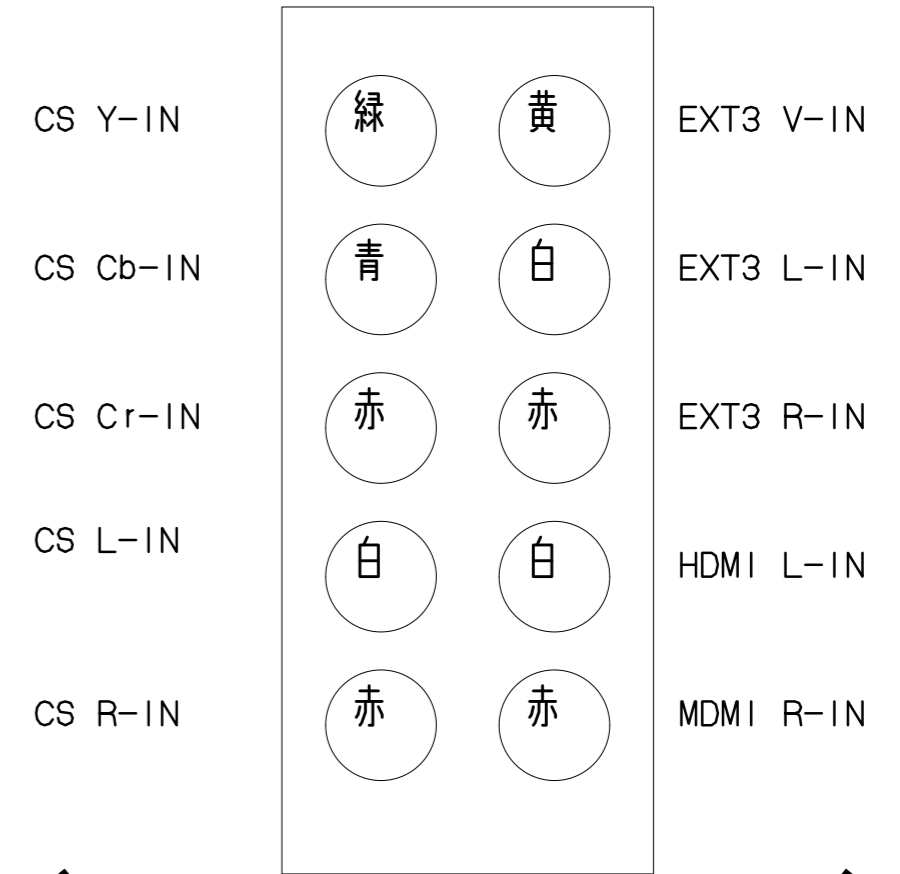
~~L1/R1:Audio in (Video 3COMPONENT)
L2/R2:Audio in (Video 4COMPOSIT)
L3/R3:MONO out~~

L1/R1:Audio in (Video 3COMPONENT)
L2/R2:Audio in (Video 4COMPOSIT)
L3/R3:Audio in (HDMI)



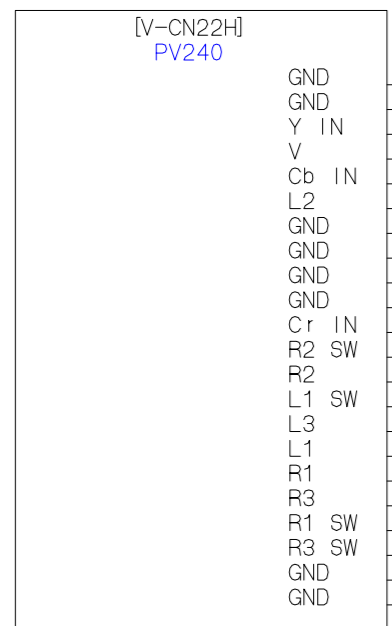
really MOUNT?

PV240はMP基板から左右反転させました。



U03AS MAIN [204] EURO COMPONENT IN (PE0630)

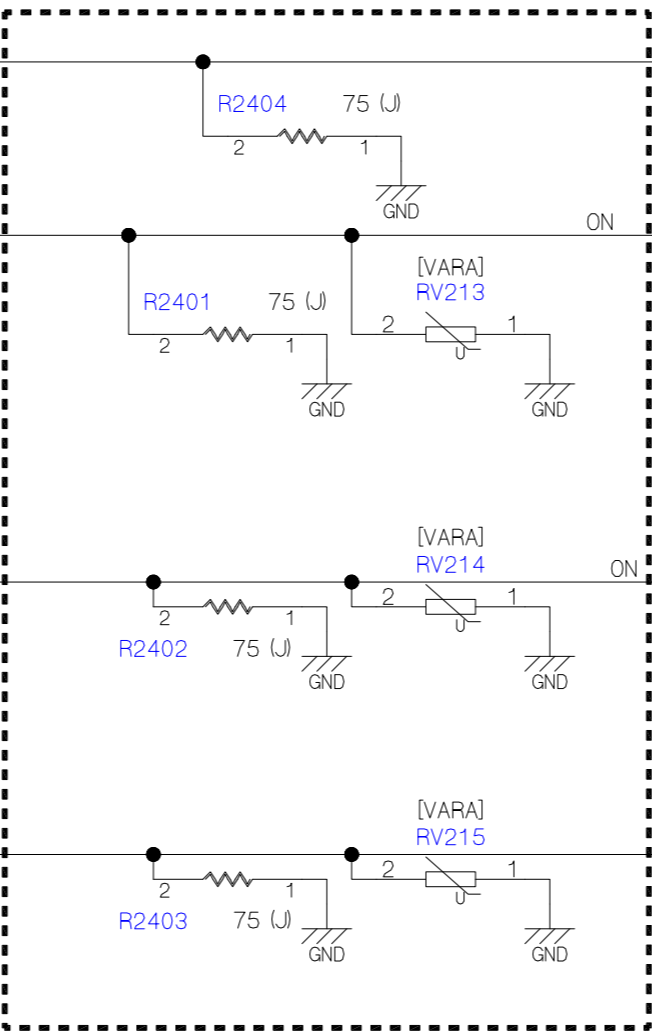
PV240はMP基板から左右反転させました。



音声仕様

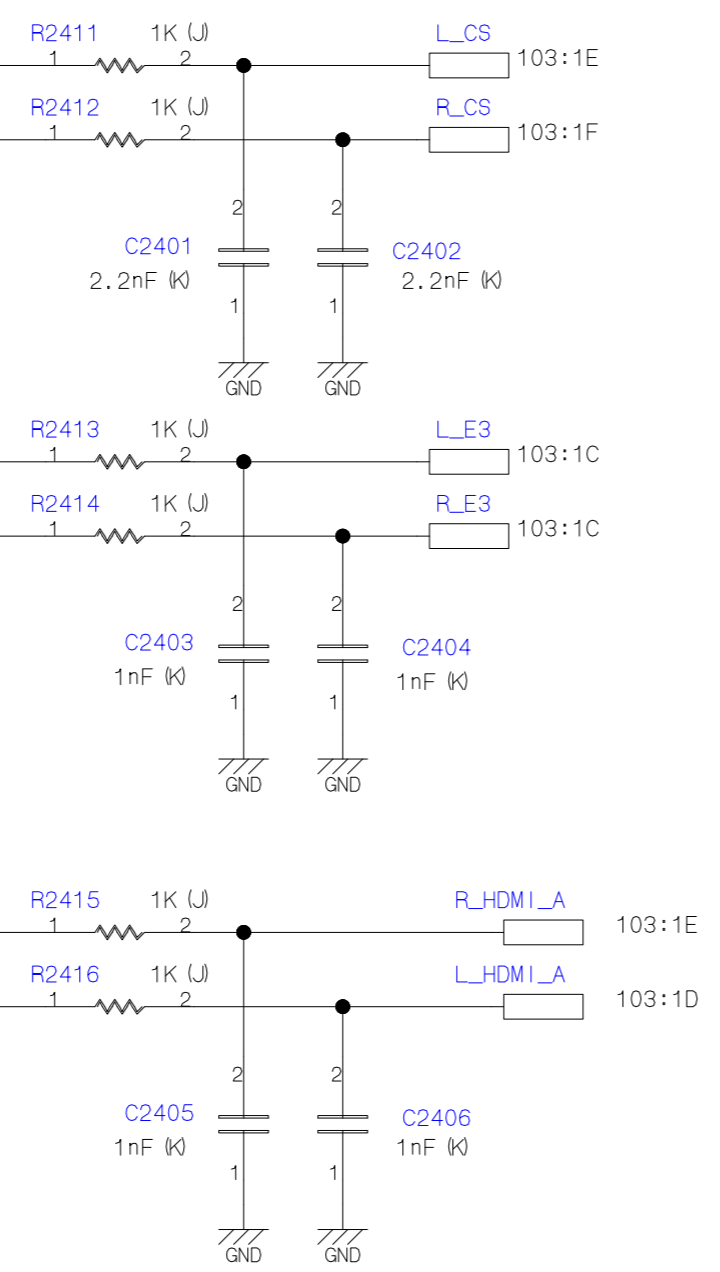
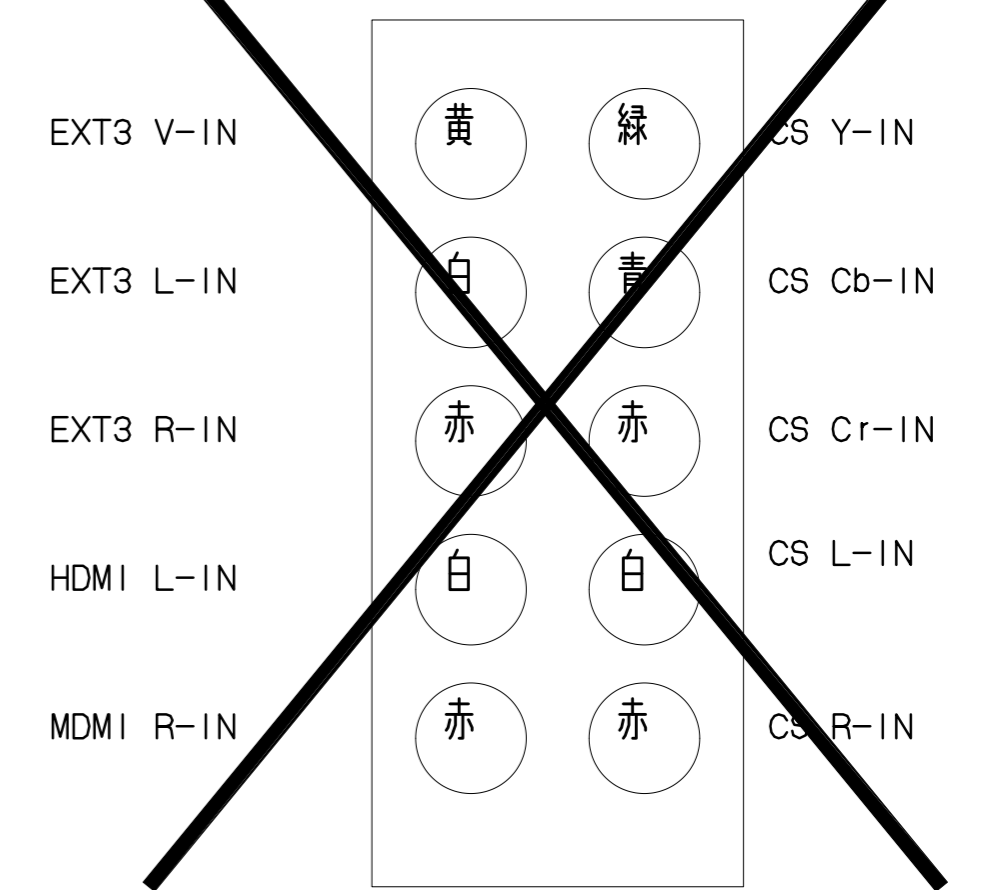
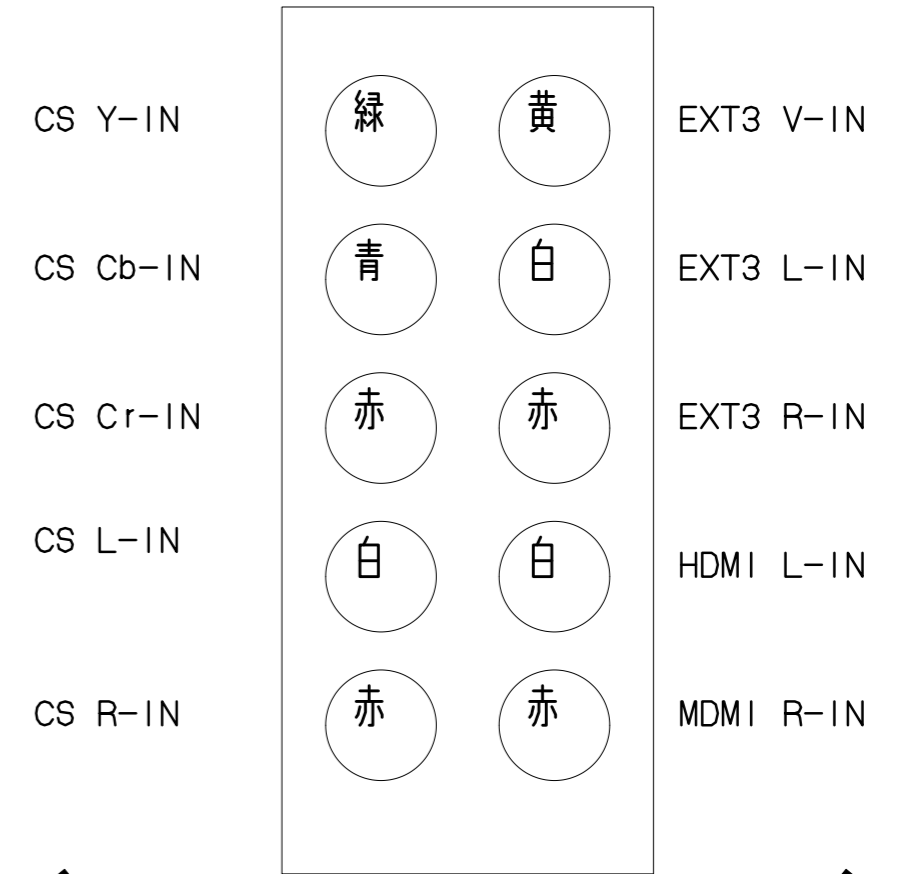
L1/R1: Audio in (Video 3COMPONENT)
L2/R2: Audio in (Video 4COMPOSIT)
L3/R3: MONO out

L1/R1: Audio in (Video 3COMPONENT)
L2/R2: Audio in (Video 4COMPOSIT)
L3/R3: Audio in (HDMI)

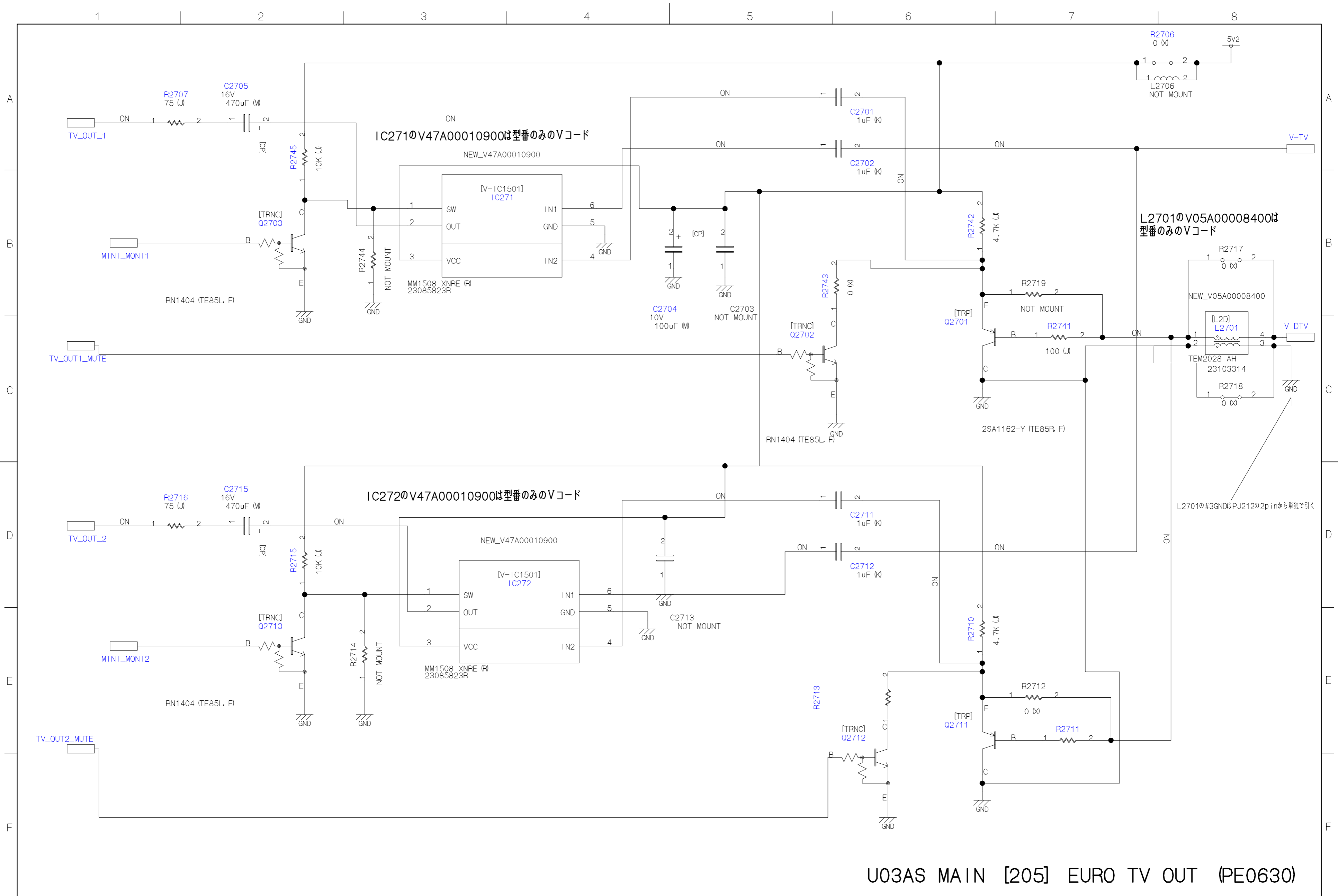


really MOUNT?

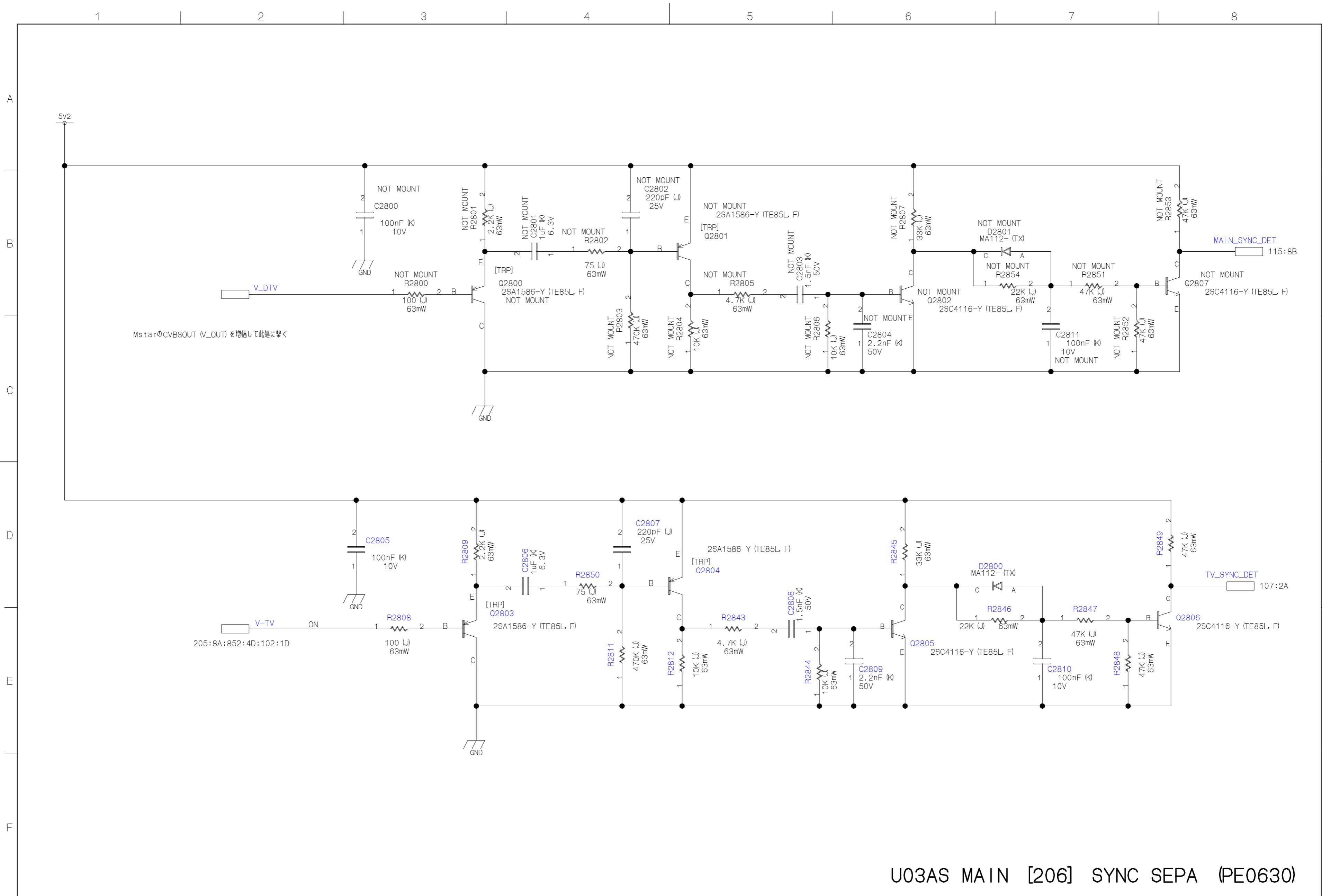
PV240はMP基板から左右反転させました。



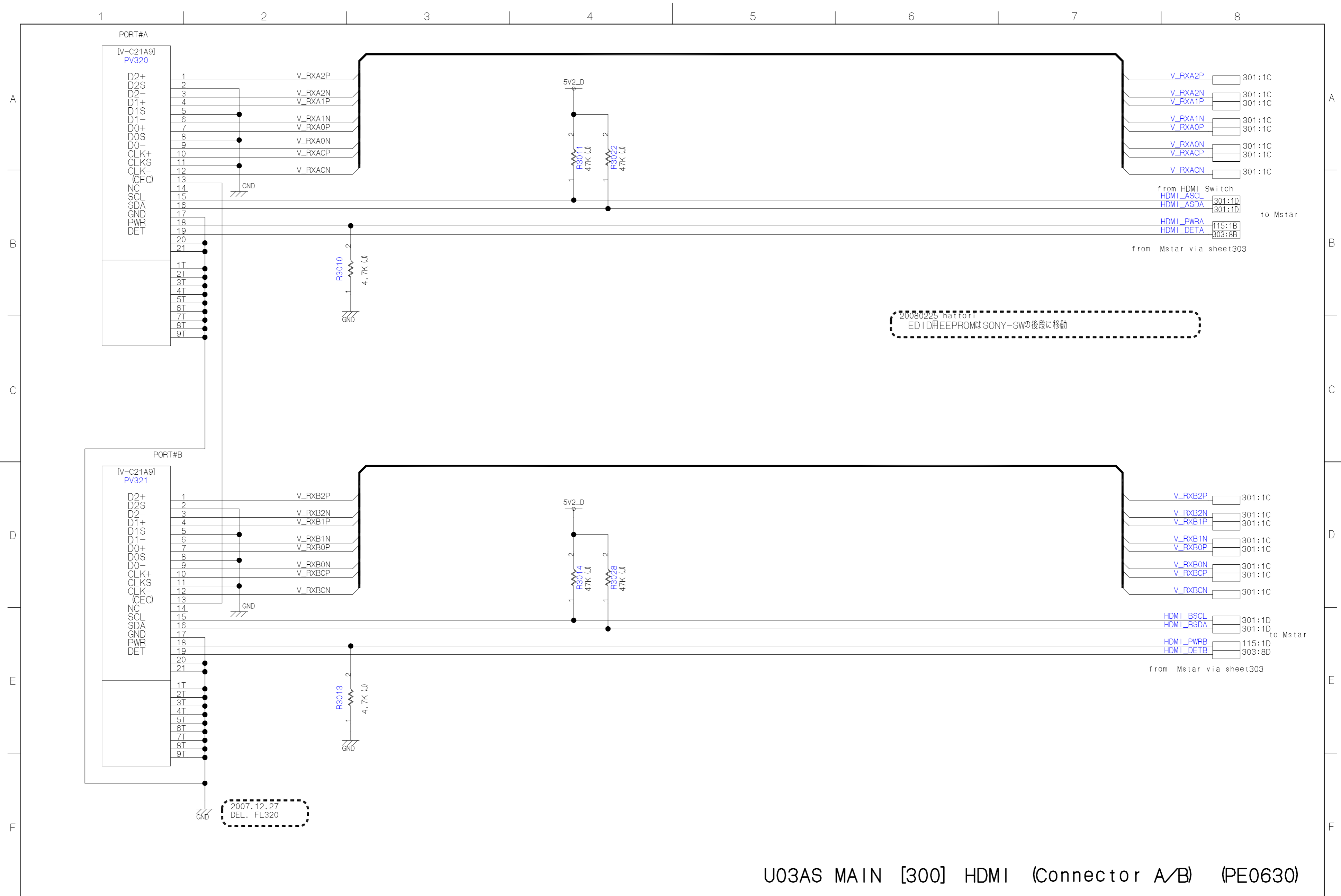
U03AS MAIN [204] EURO COMPONENT IN (PE0630)



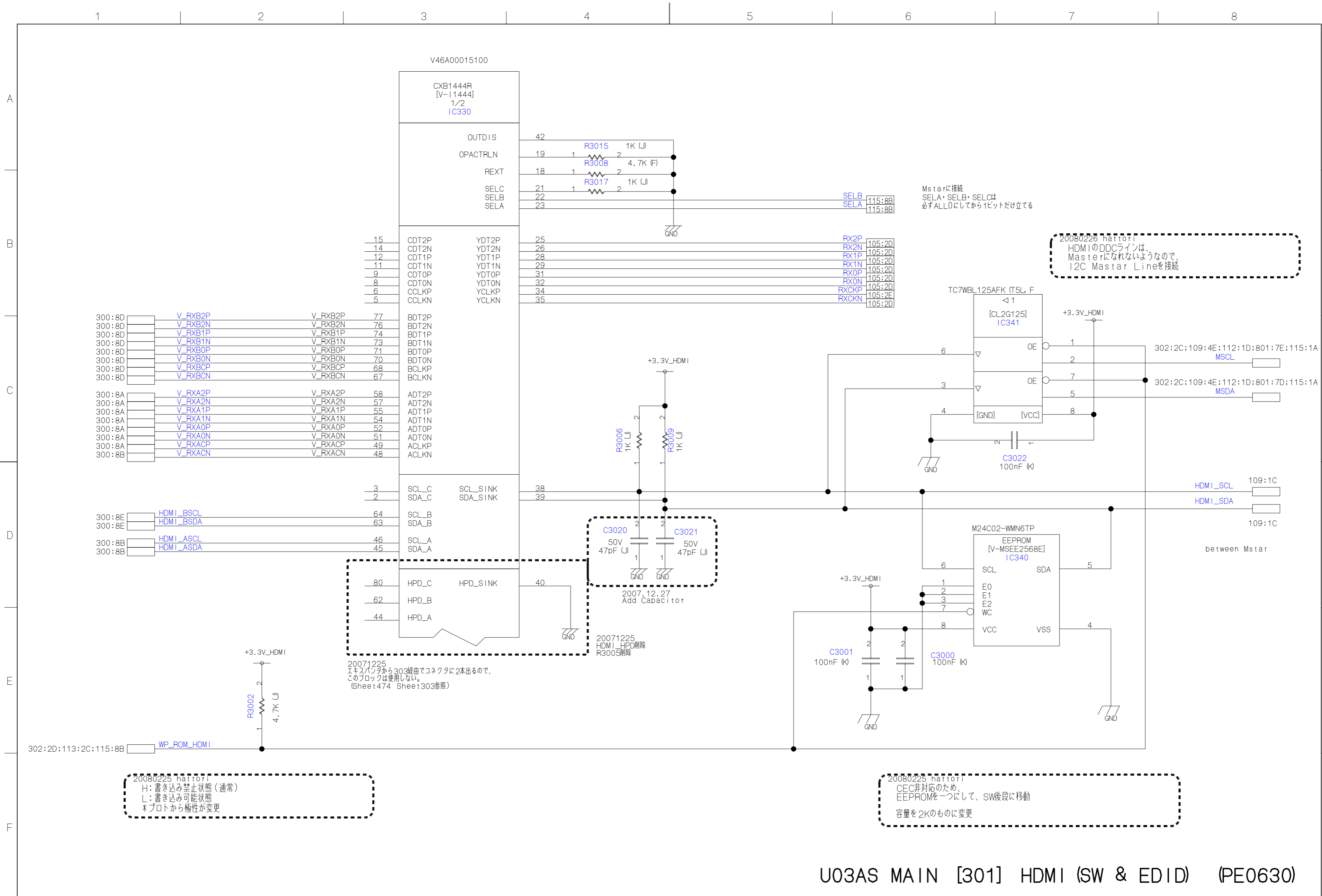
U03AS MAIN [205] EURO TV OUT (PE0630)



U03AS MAIN [206] SYNC SEPA (PE0630)

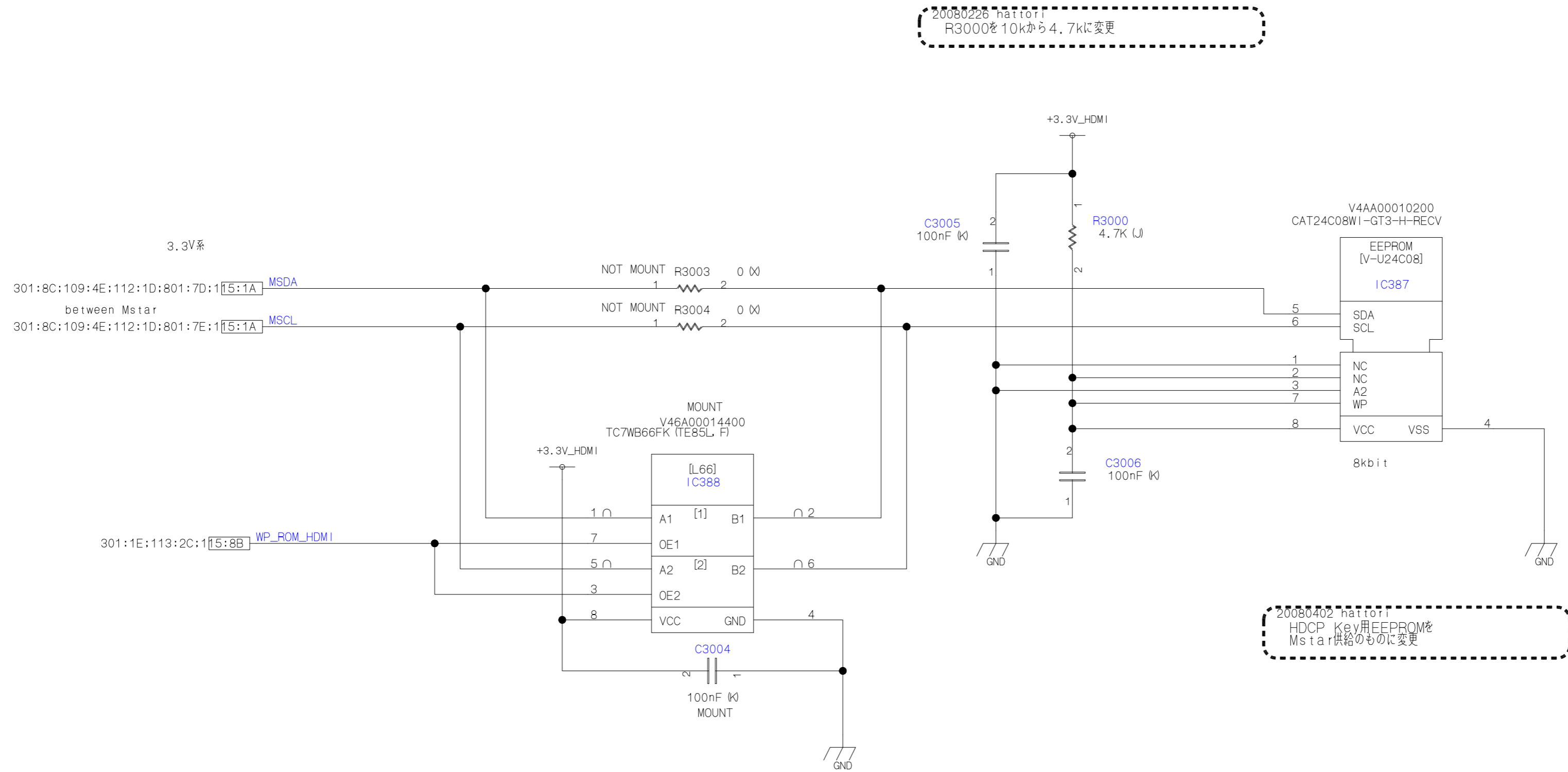


U03AS MAIN [300] HDMI (Connector A/B) (PE0630)



1 2 3 4 5 6 7 8

A
B
C
D
E
F

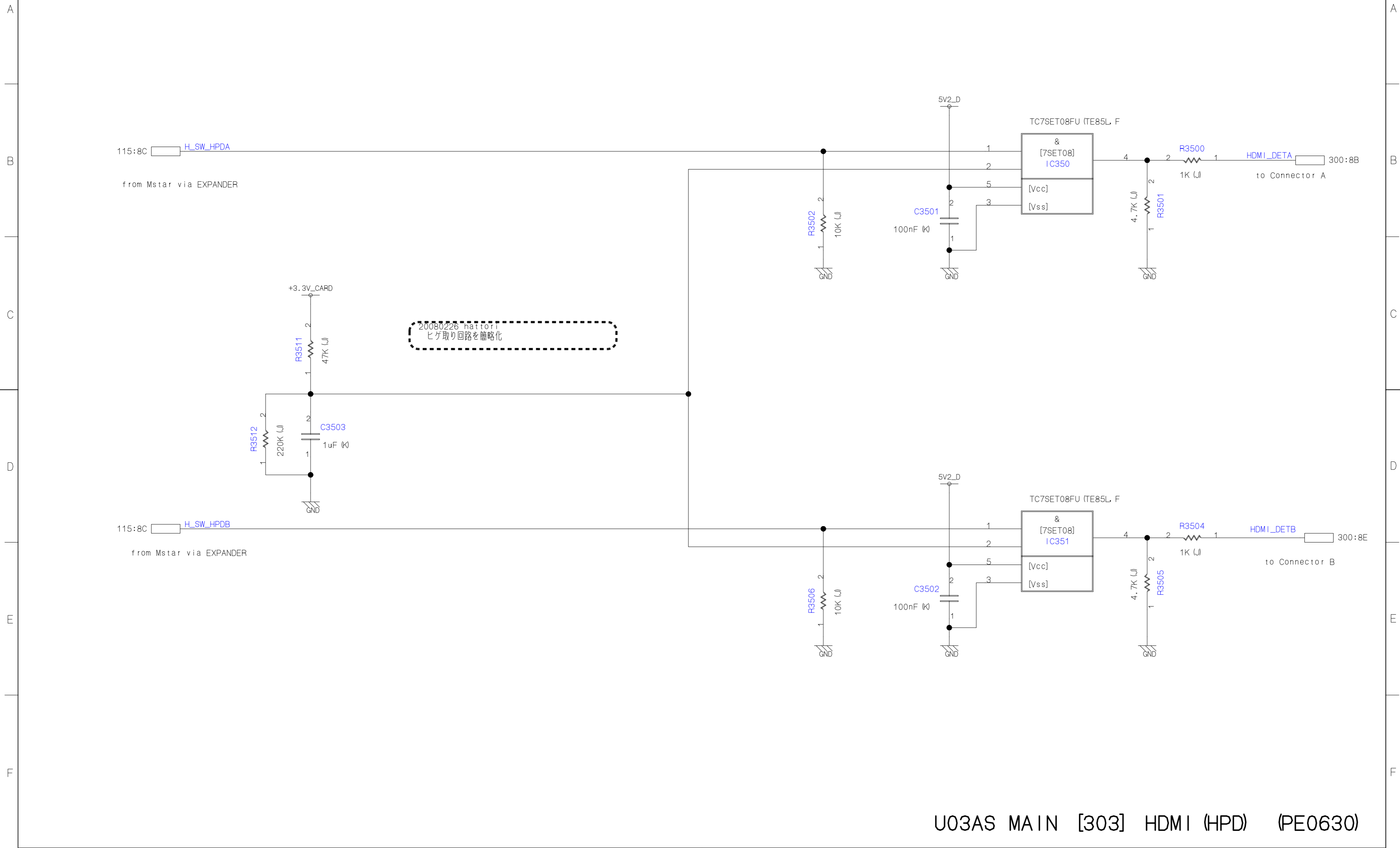


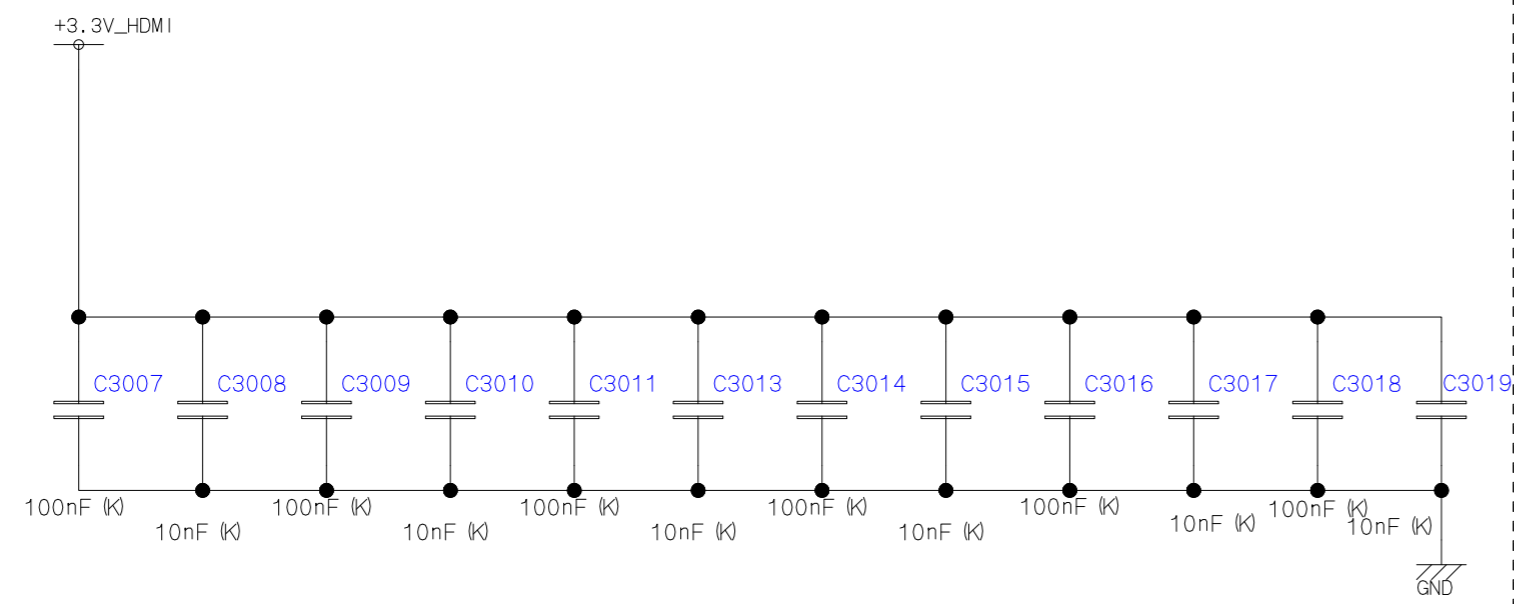
20080226 hatfori
R3000を10kから4.7kに変更

20080402 hatfori
HDCP_Key用EEPROMを
Mstar供給のものに変更

20080402 hatfori
EDID用EEPROMと同時にアクセスしないよう、
アナログスイッチを追加

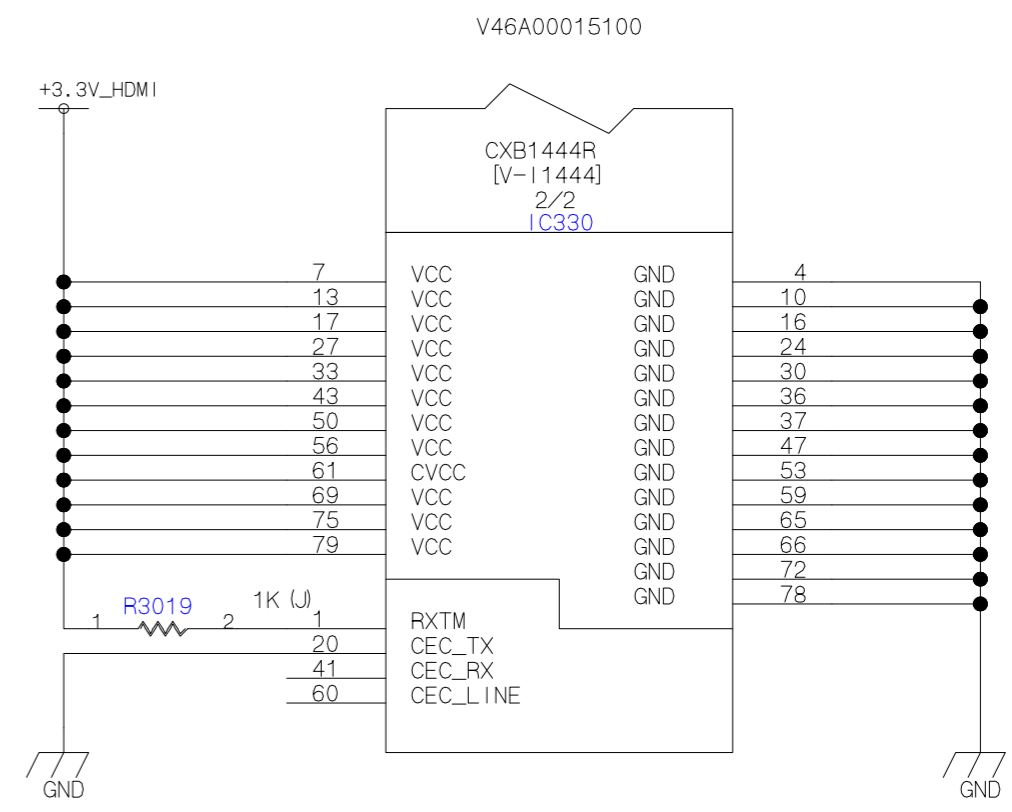
1 2 3 4 5 6 7 8

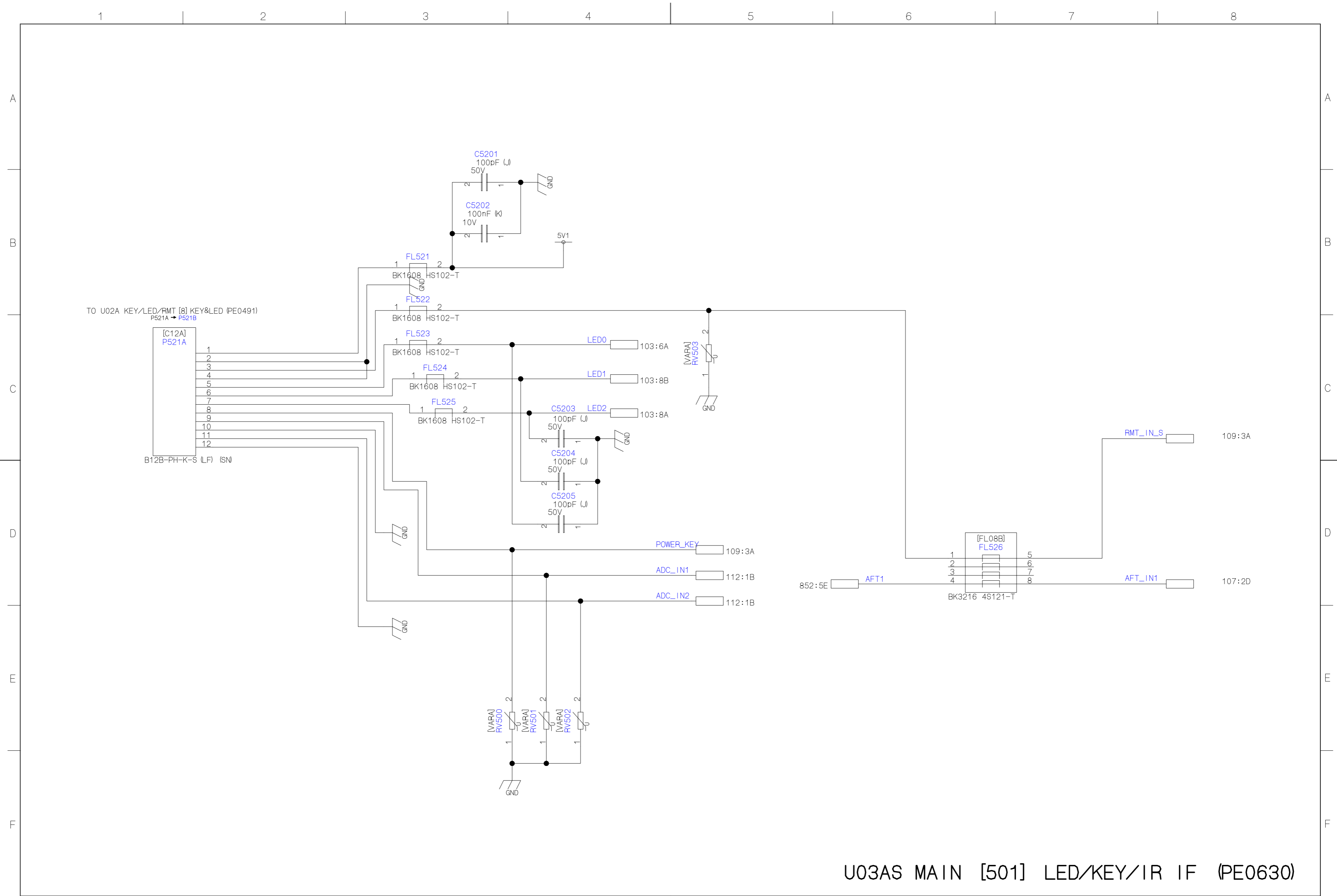


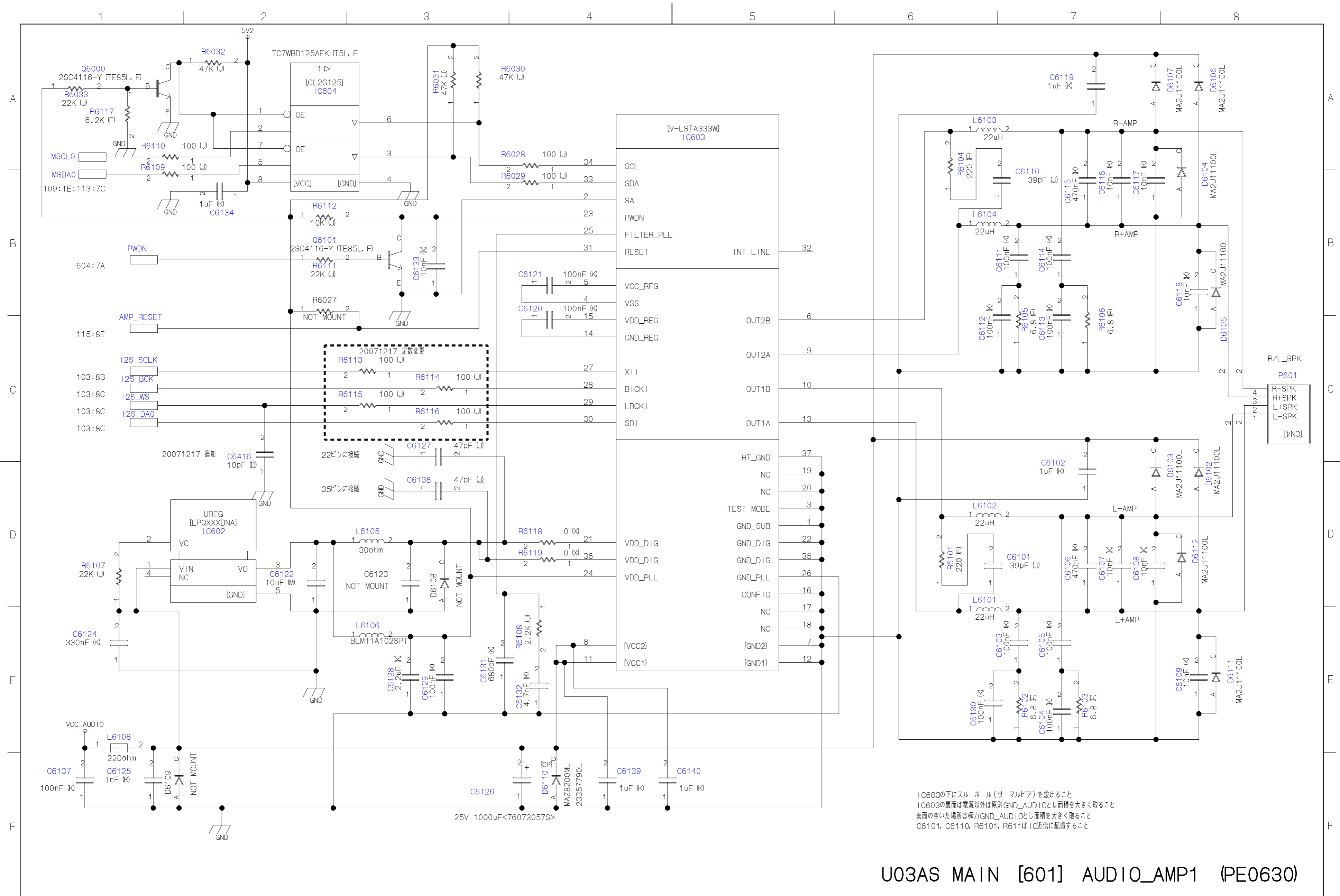


20071219 DELETED
 +3.3V_HDMI_REG
 L3000, C3020

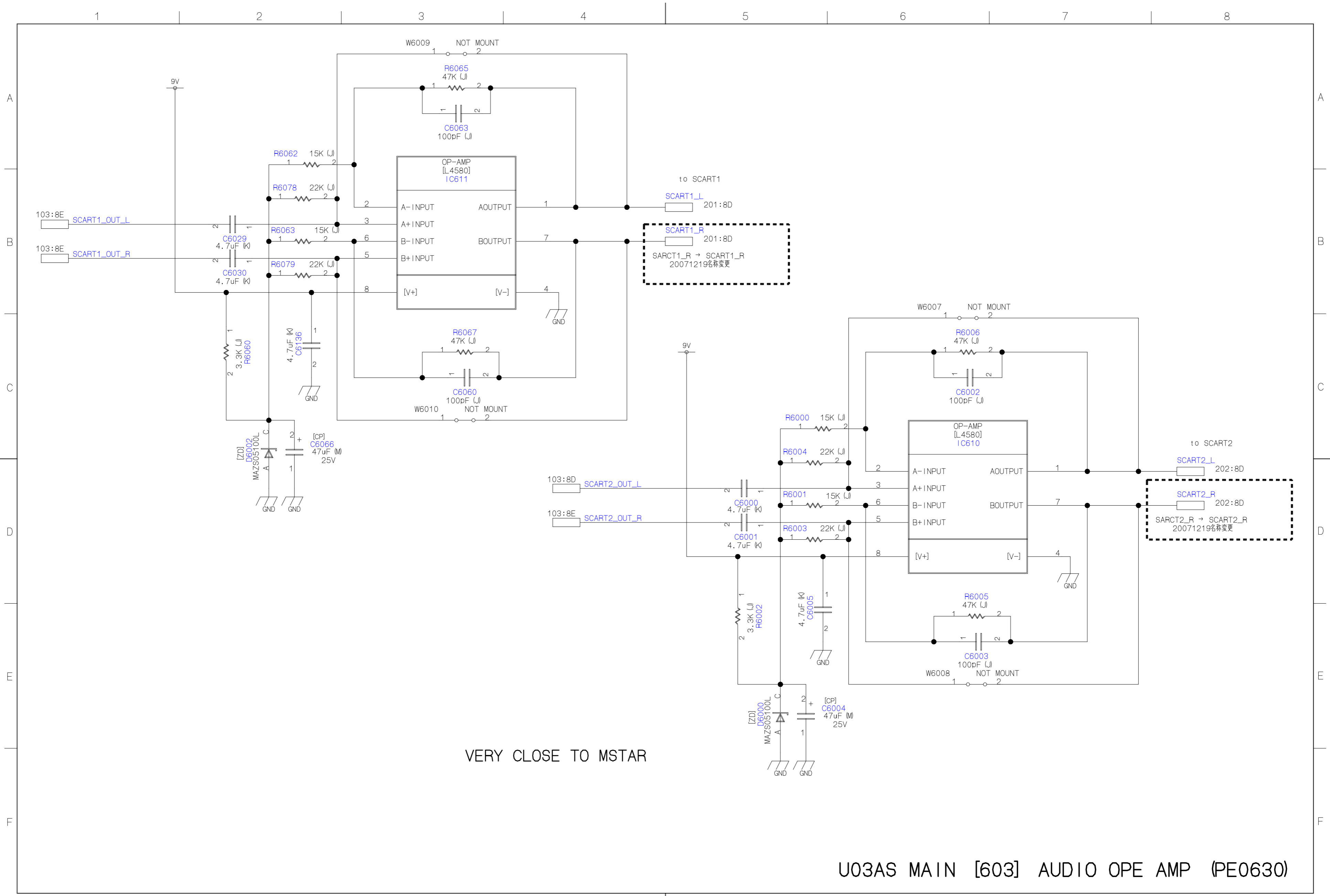
20071219 DELETED
 +9V_HDMI
 FL300, C3012





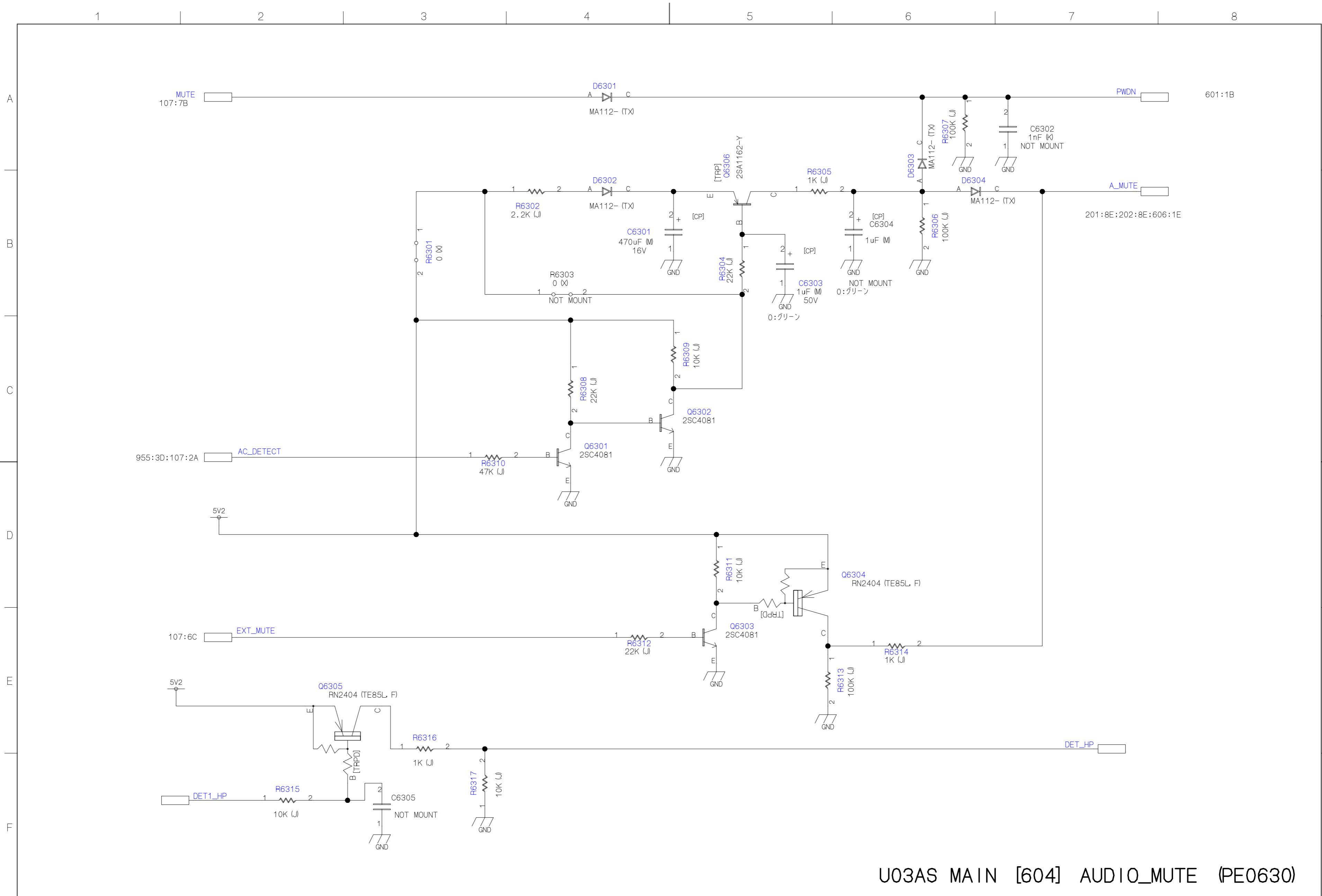


U03AS MAIN [601] AUDIO_AMP1 (PE0630)



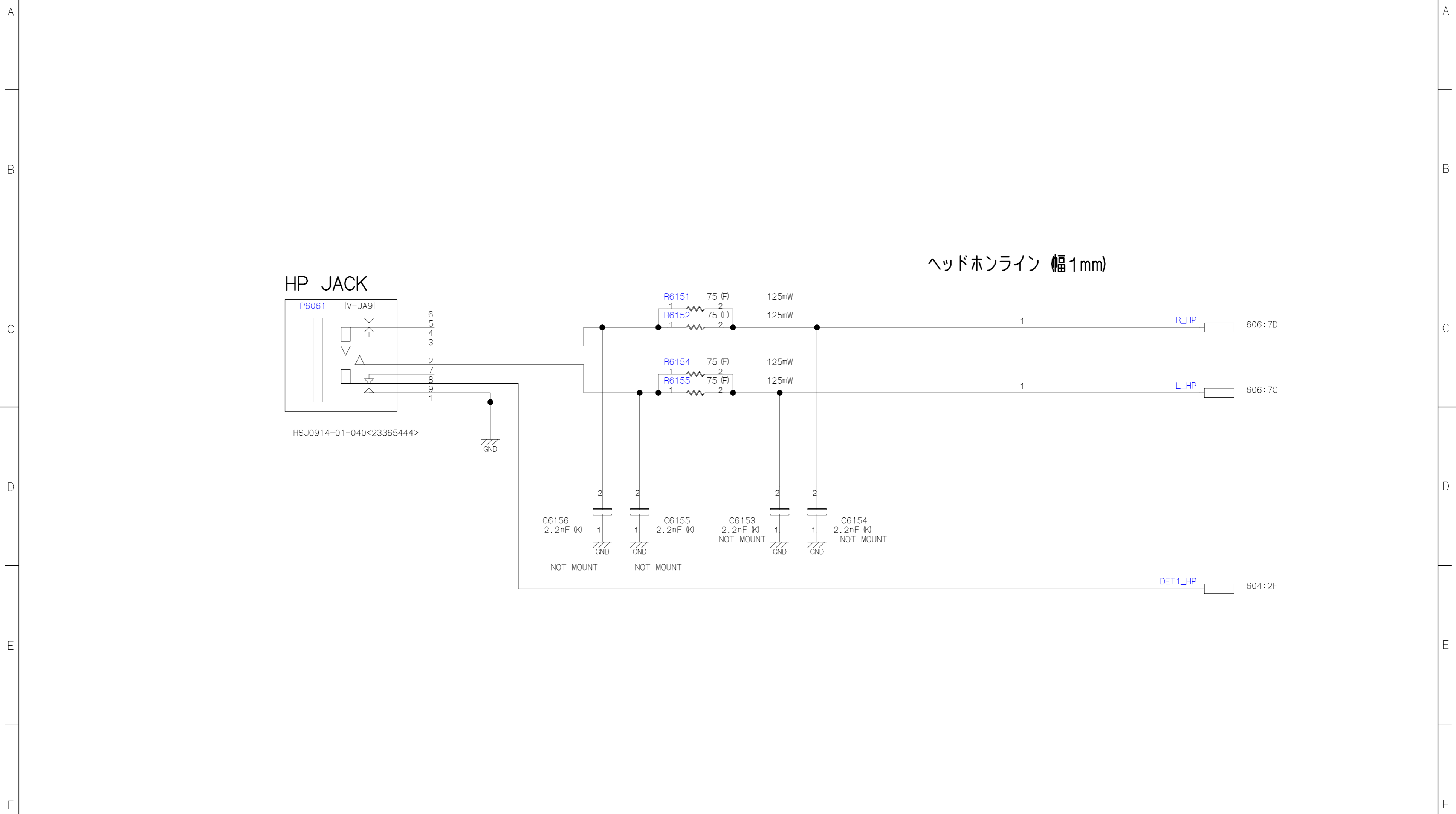
VERY CLOSE TO MSTAR

U03AS MAIN [603] AUDIO OPE AMP (PE0630)

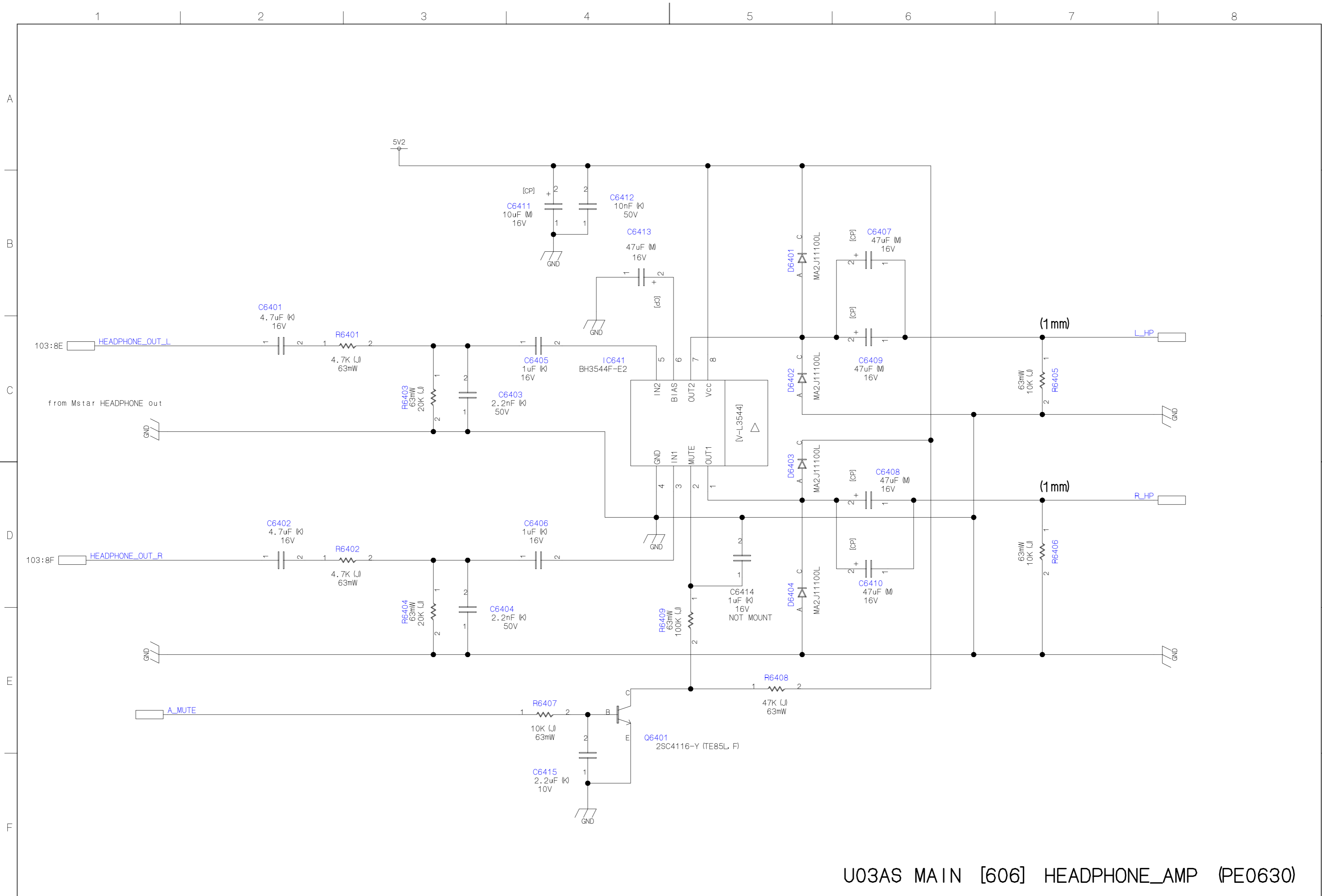


U03AS MAIN [604] AUDIO_MUTE (PE0630)

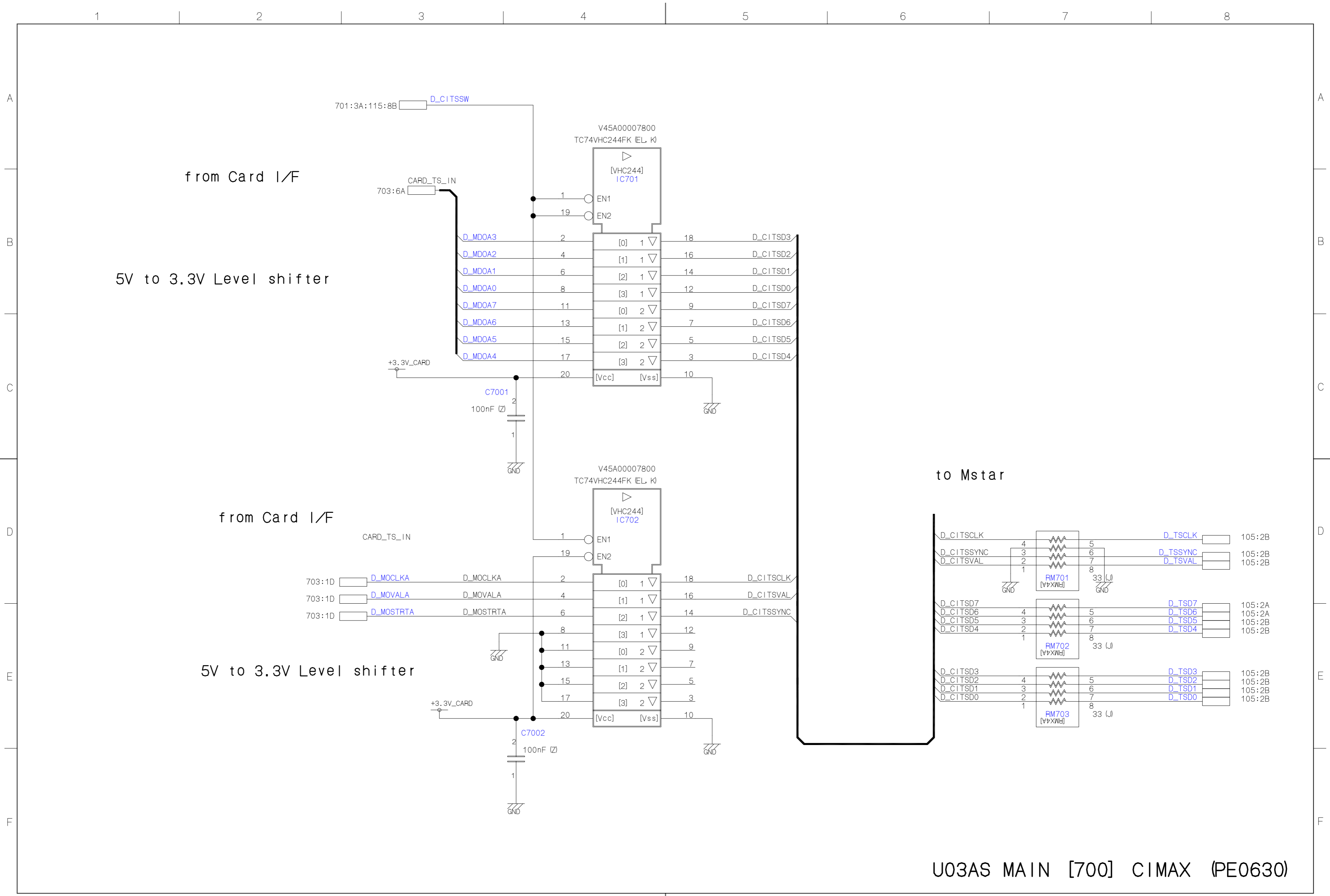
1 2 3 4 5 6 7 8



U03AS MAIN [605] HP-OUT / PC-IN (PE0630)



U03AS MAIN [606] HEADPHONE_AMP (PE0630)



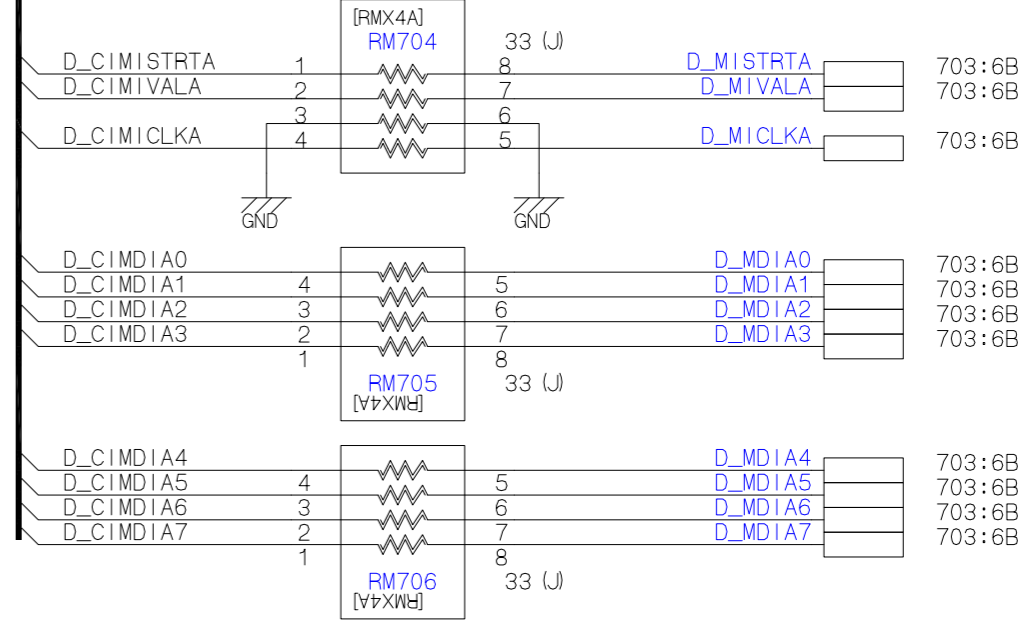
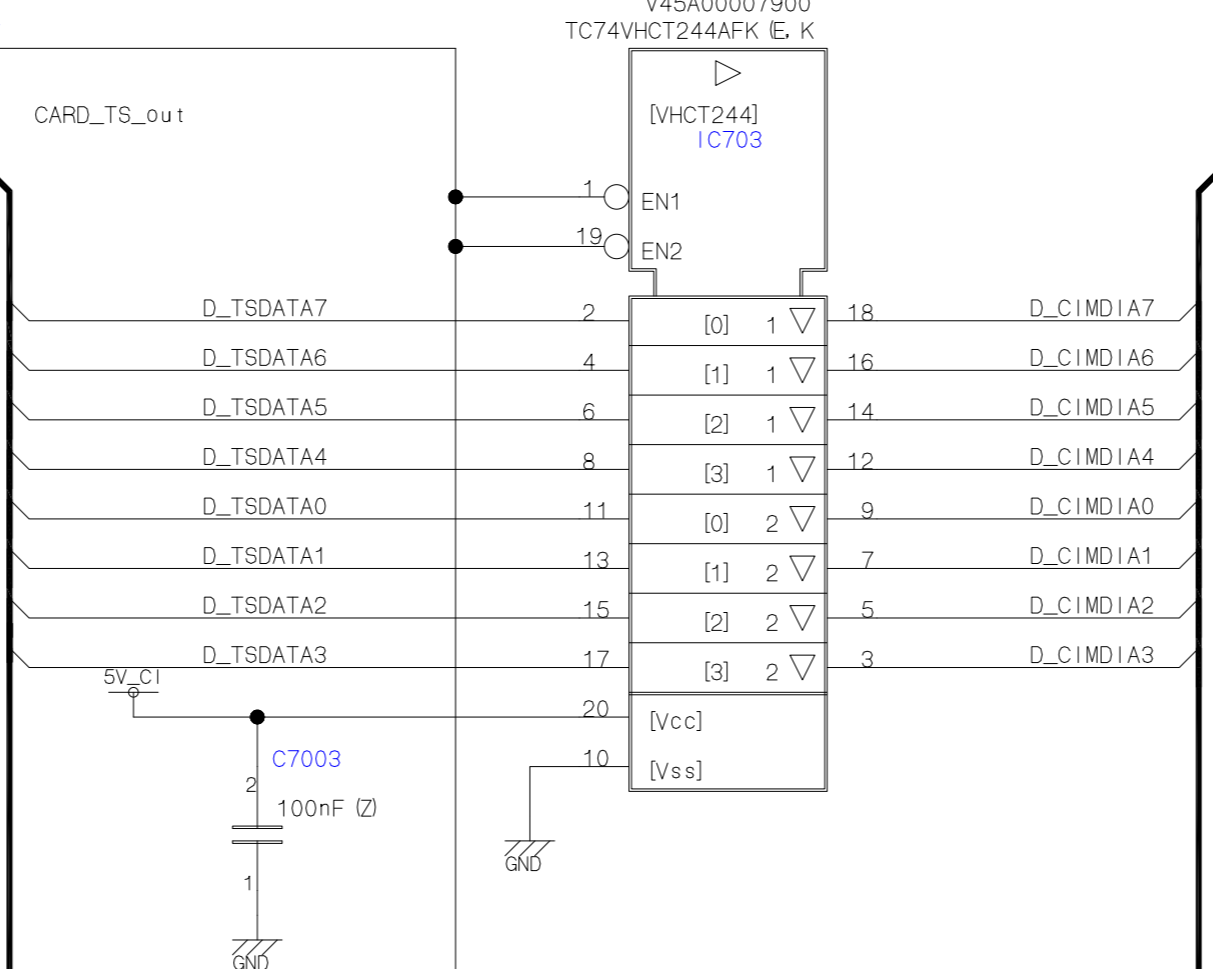
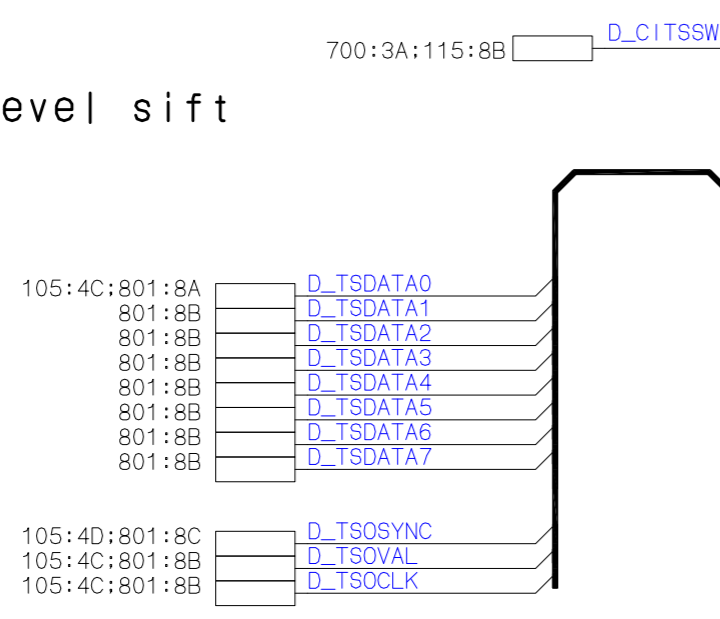
U03AS MAIN [700] CIMAX (PE0630)

1 2 3 4 5 6 7 8

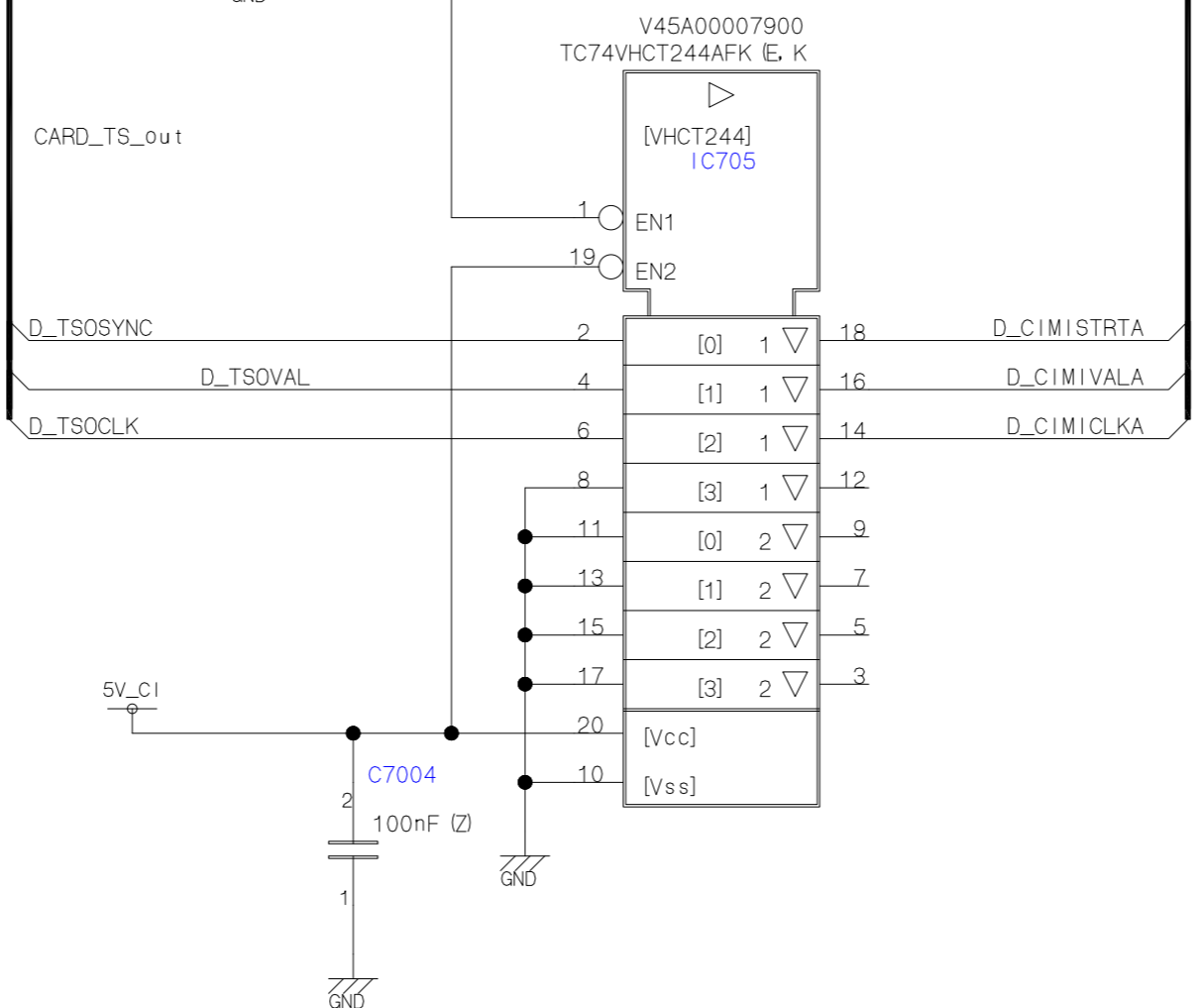
A
B
C
D
E
F

A
B
C
D
E
F

3V>5V Level sift



3V>5V Level sift

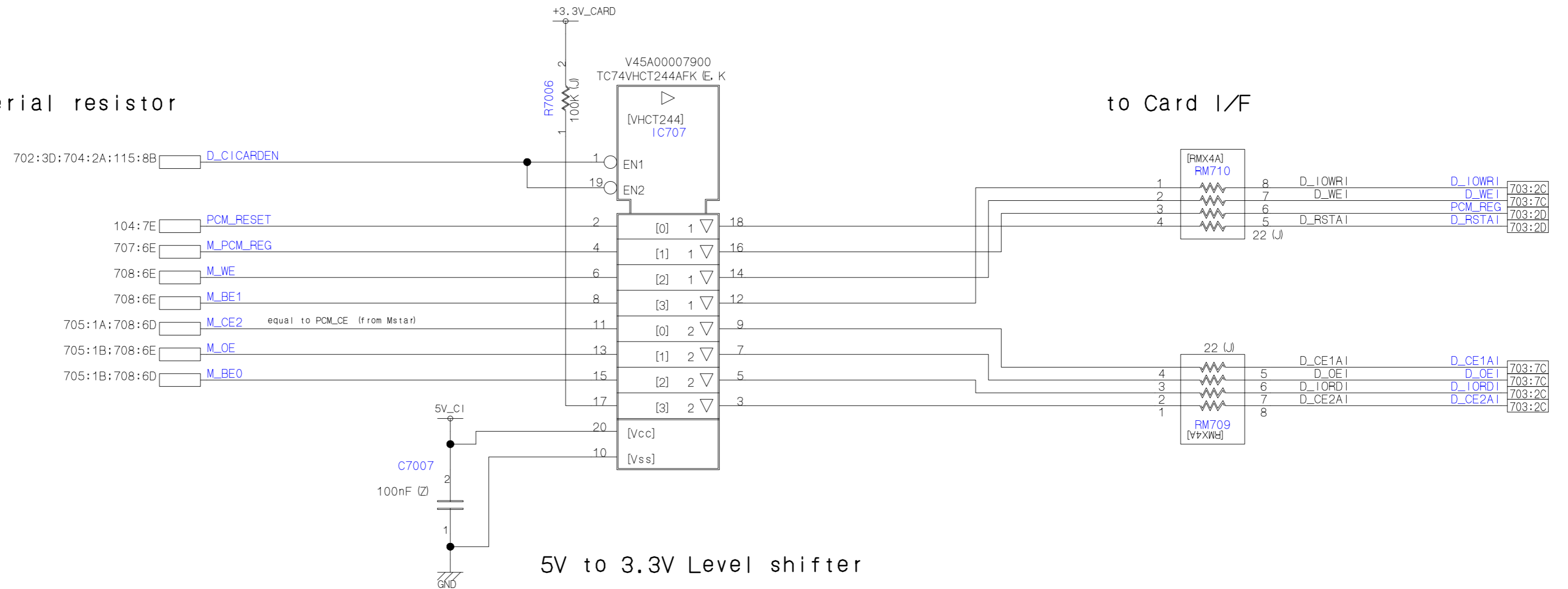


電源名称要確認

from Mstar via serial resistor

3.3V to 5V Level shifter

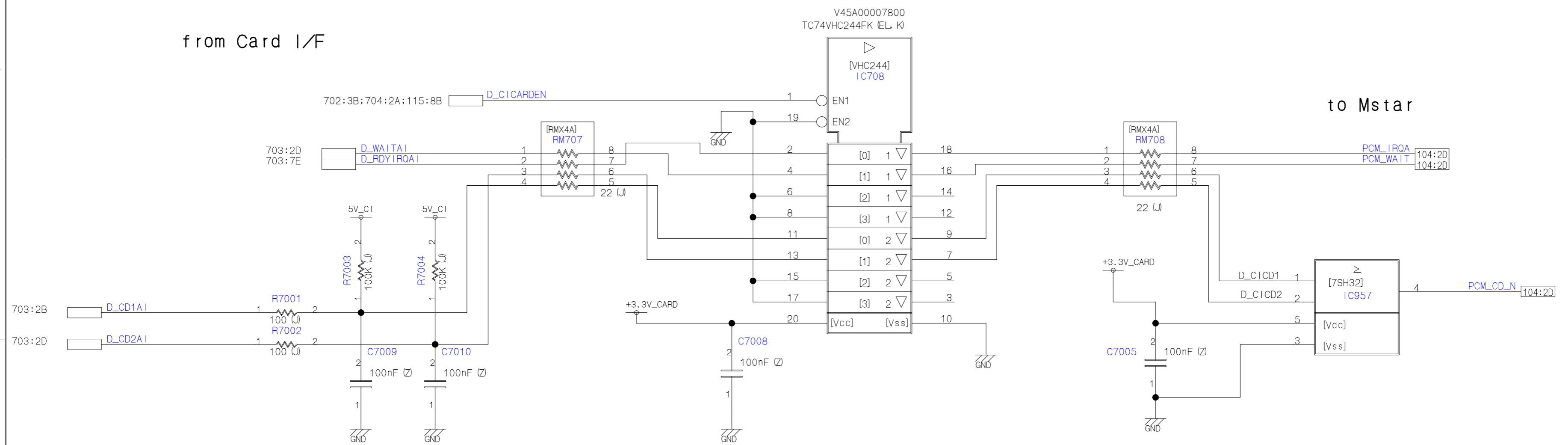
to Card I/F



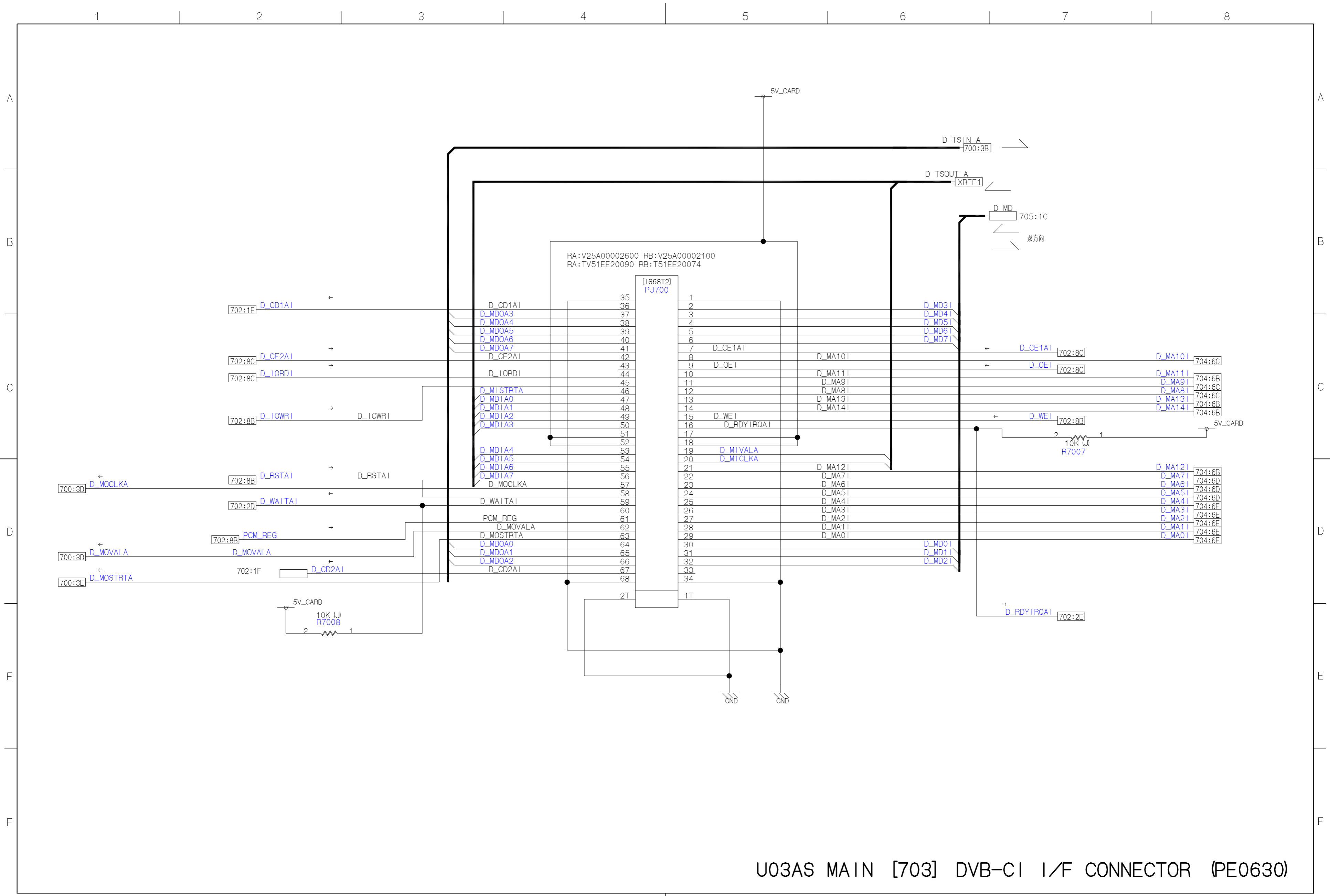
5V to 3.3V Level shifter

from Card I/F

to Mstar



U03AS MAIN [702] DVB-C1 I/F LOGIC3 (PE0630)



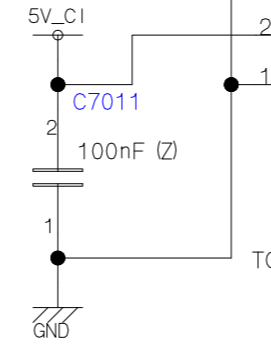
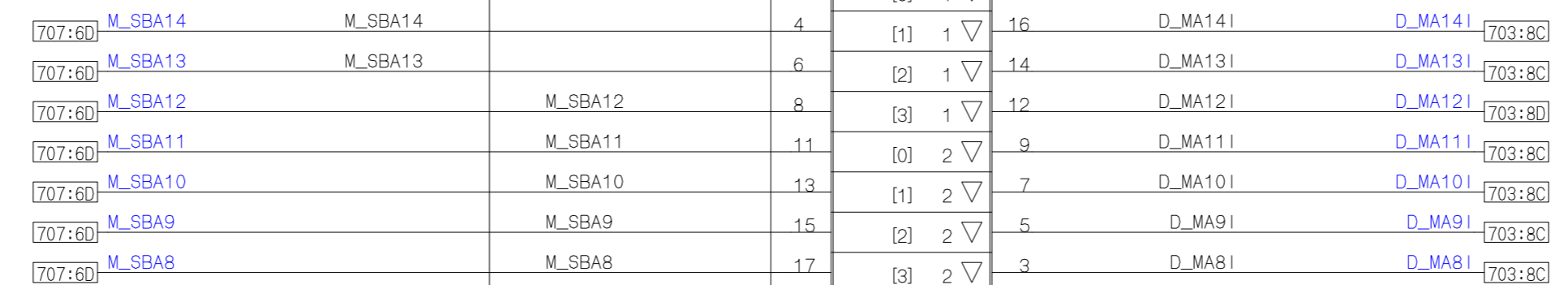
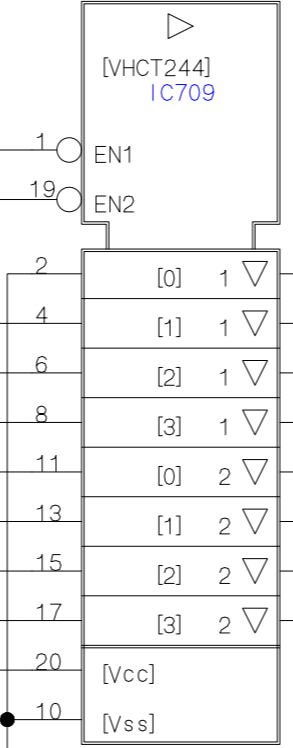
U03AS MAIN [703] DVB-CI I/F CONNECTOR (PE0630)

1 2 3 4 5 6 7 8

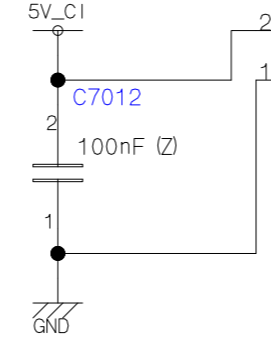
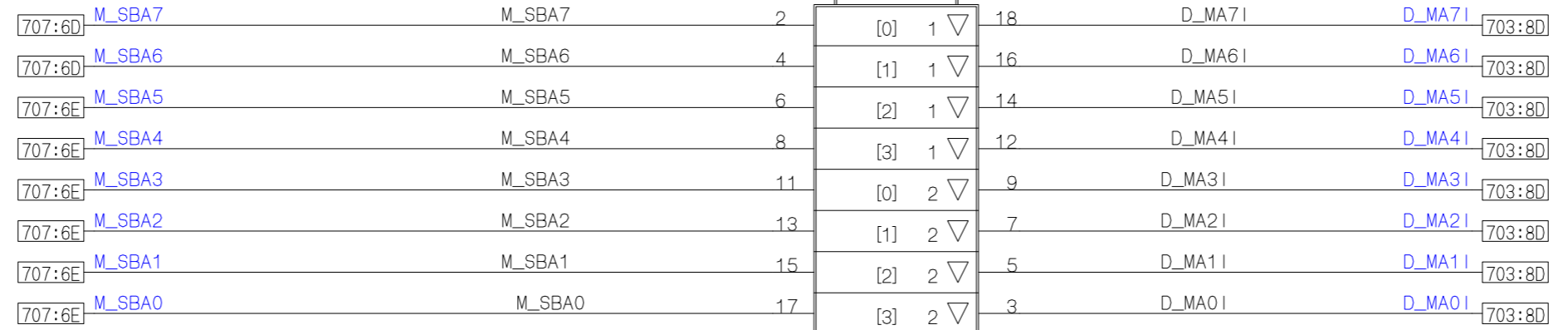
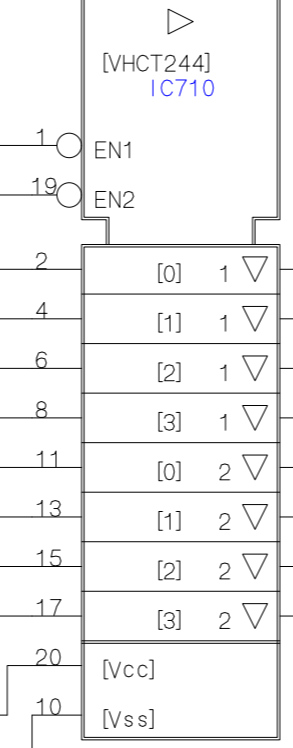
3V to 5V Level shift

702:3B:702:3D:115:8B D_CIGARDEN

V45A00007900 TC74VHCT244AFK E. K



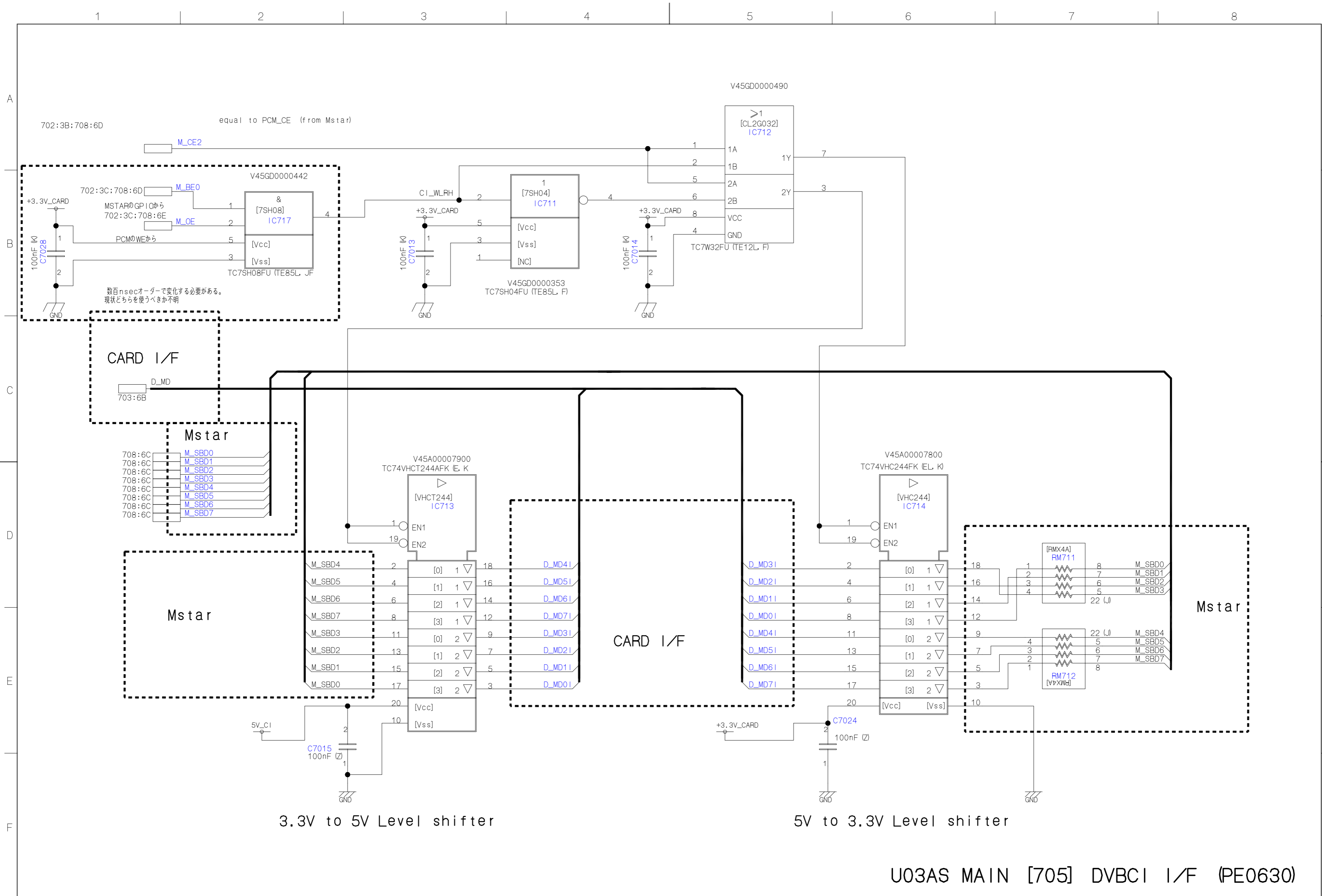
V45A00007900 TC74VHCT244AFK E. K



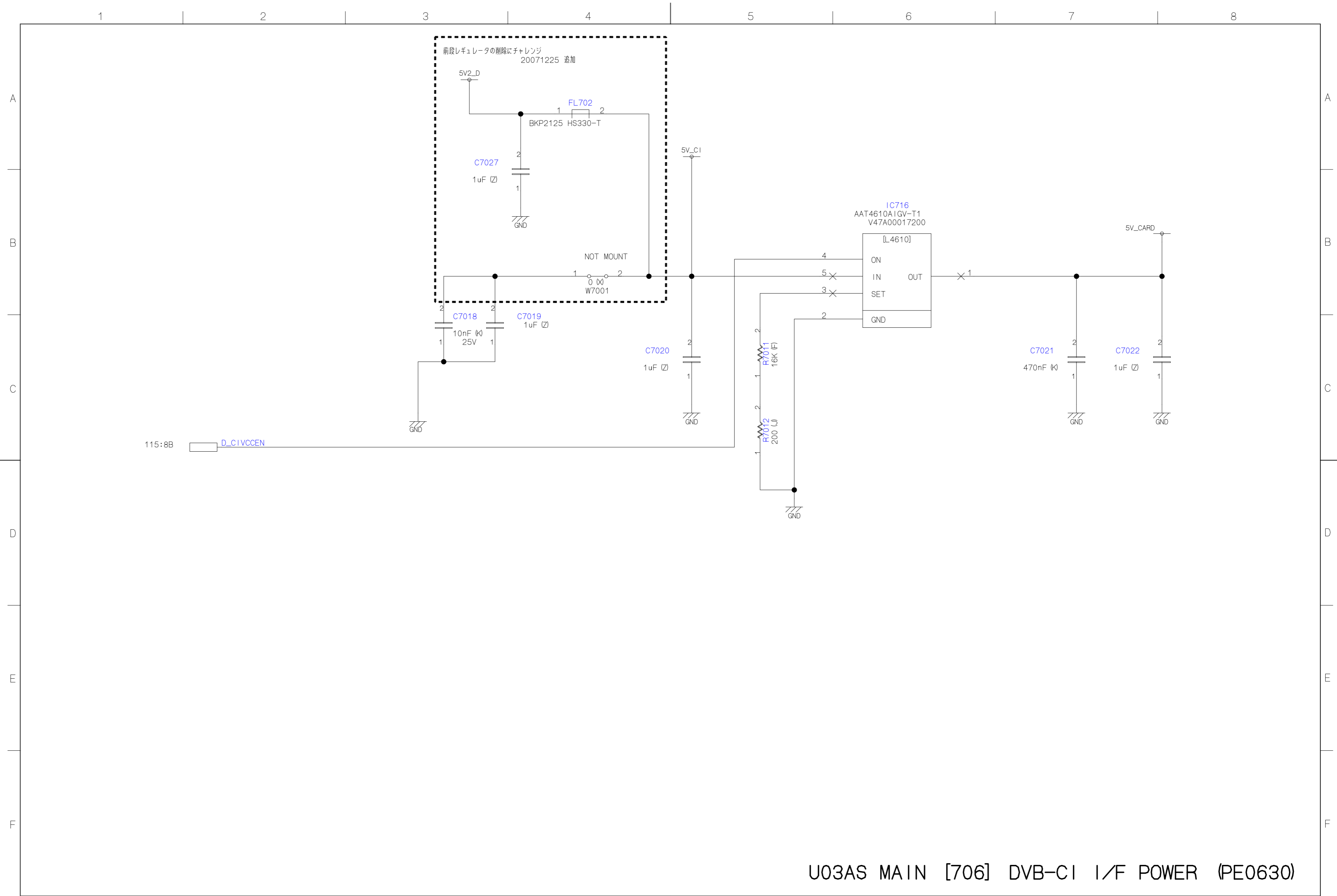
3V to 5V Level shift

from Mstar via serial resistor

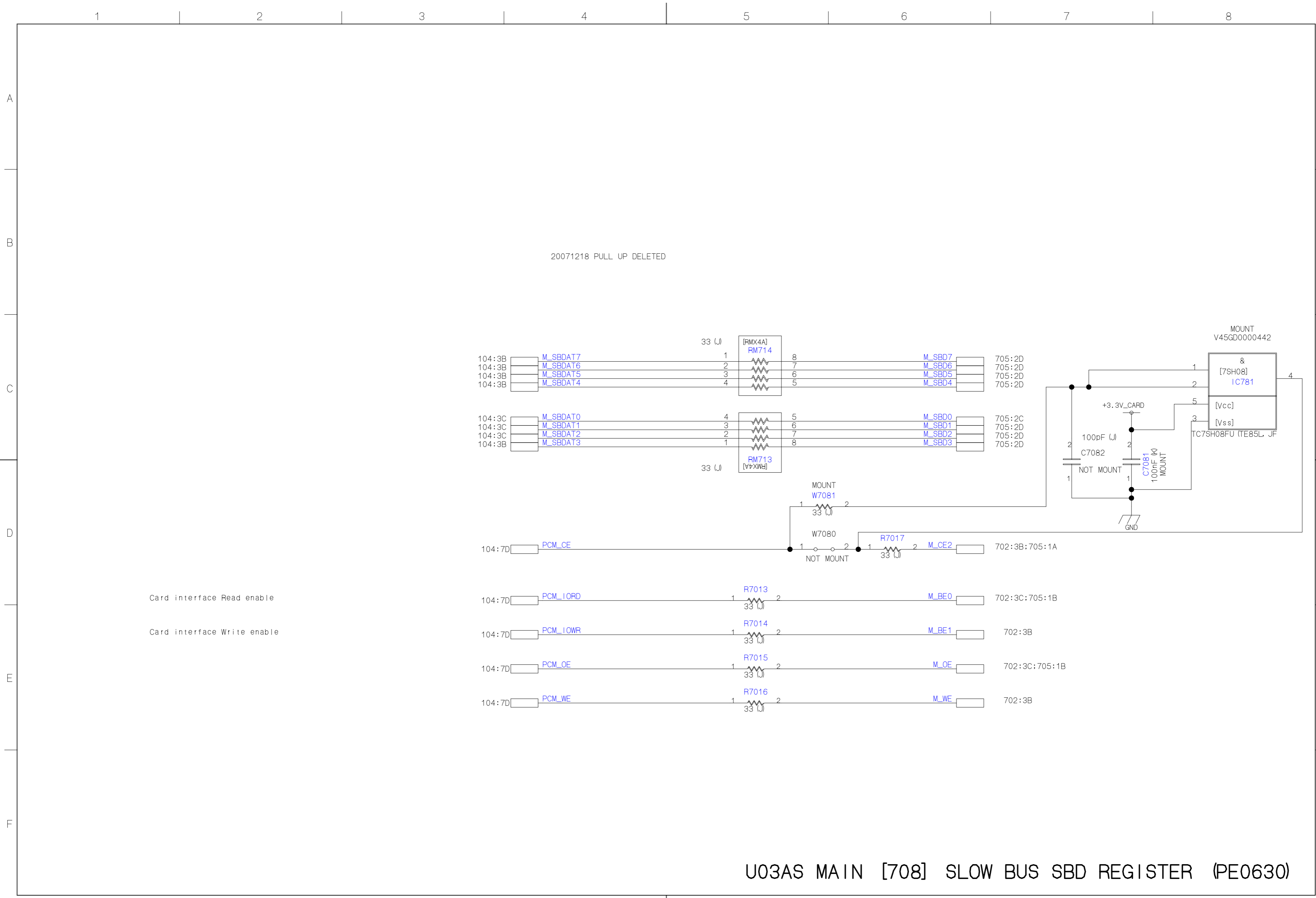
to Card I/F address bus input



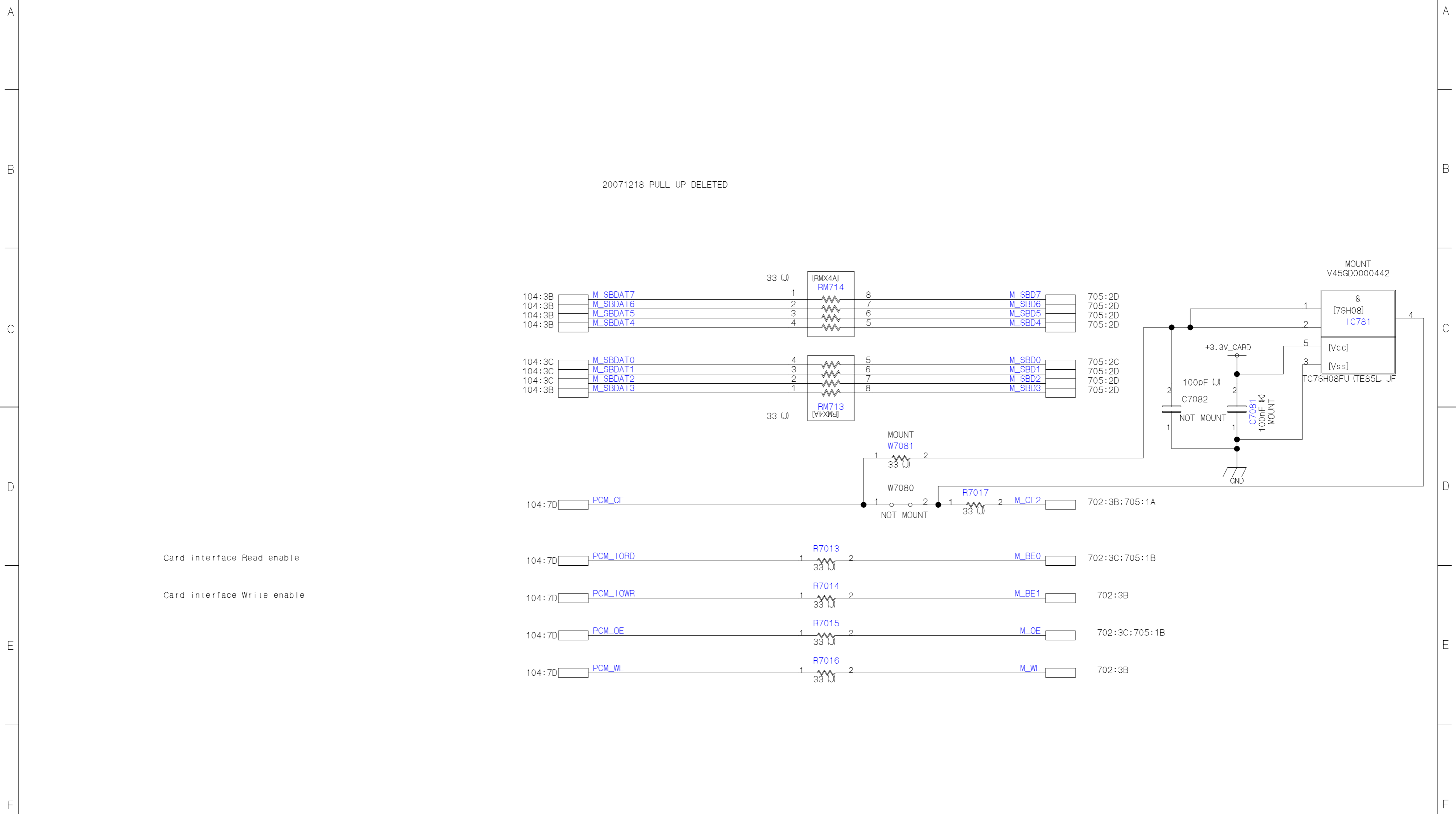
U03AS MAIN [705] DVBC I/F (PE0630)



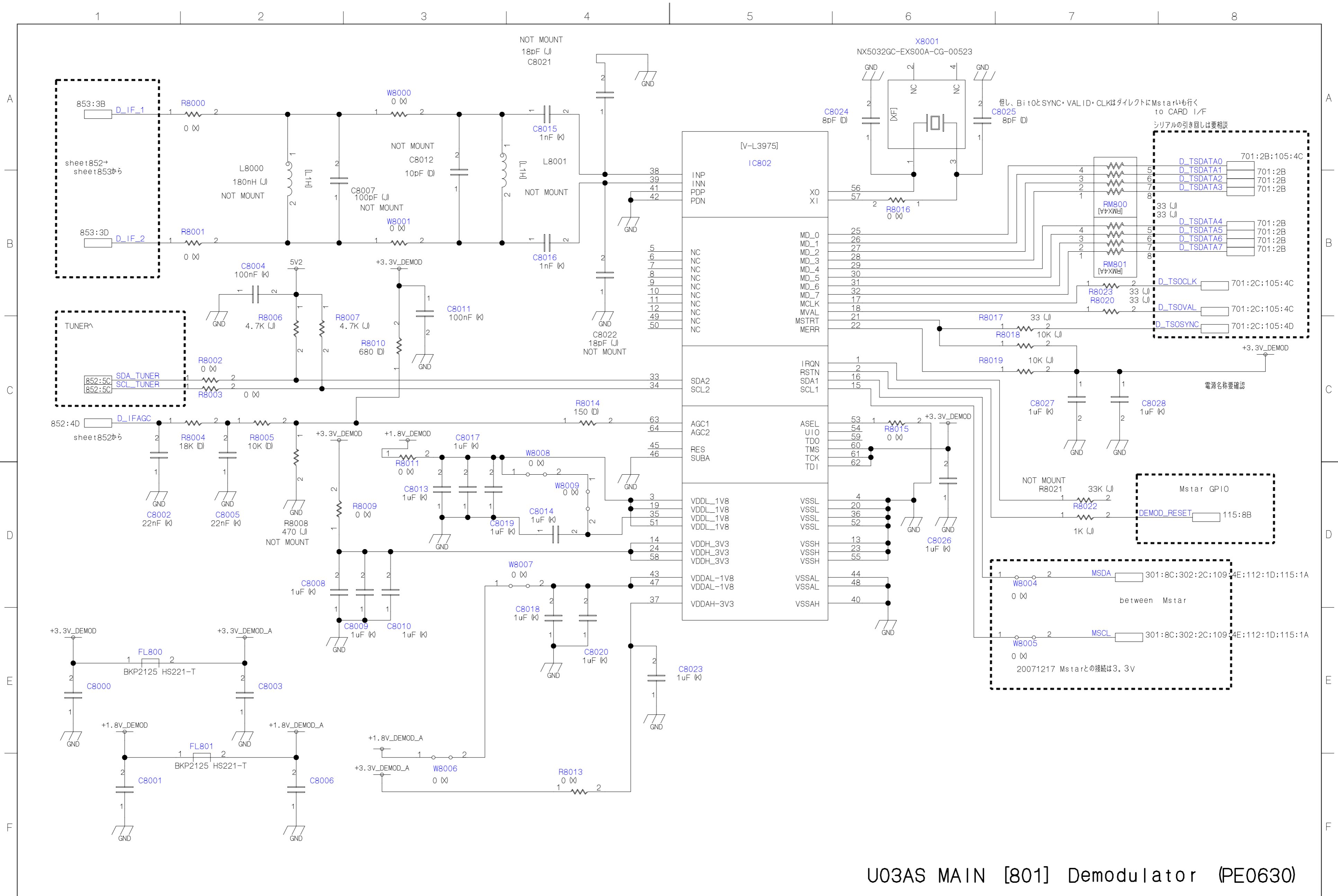
U03AS MAIN [706] DVB-CI I/F POWER (PE0630)



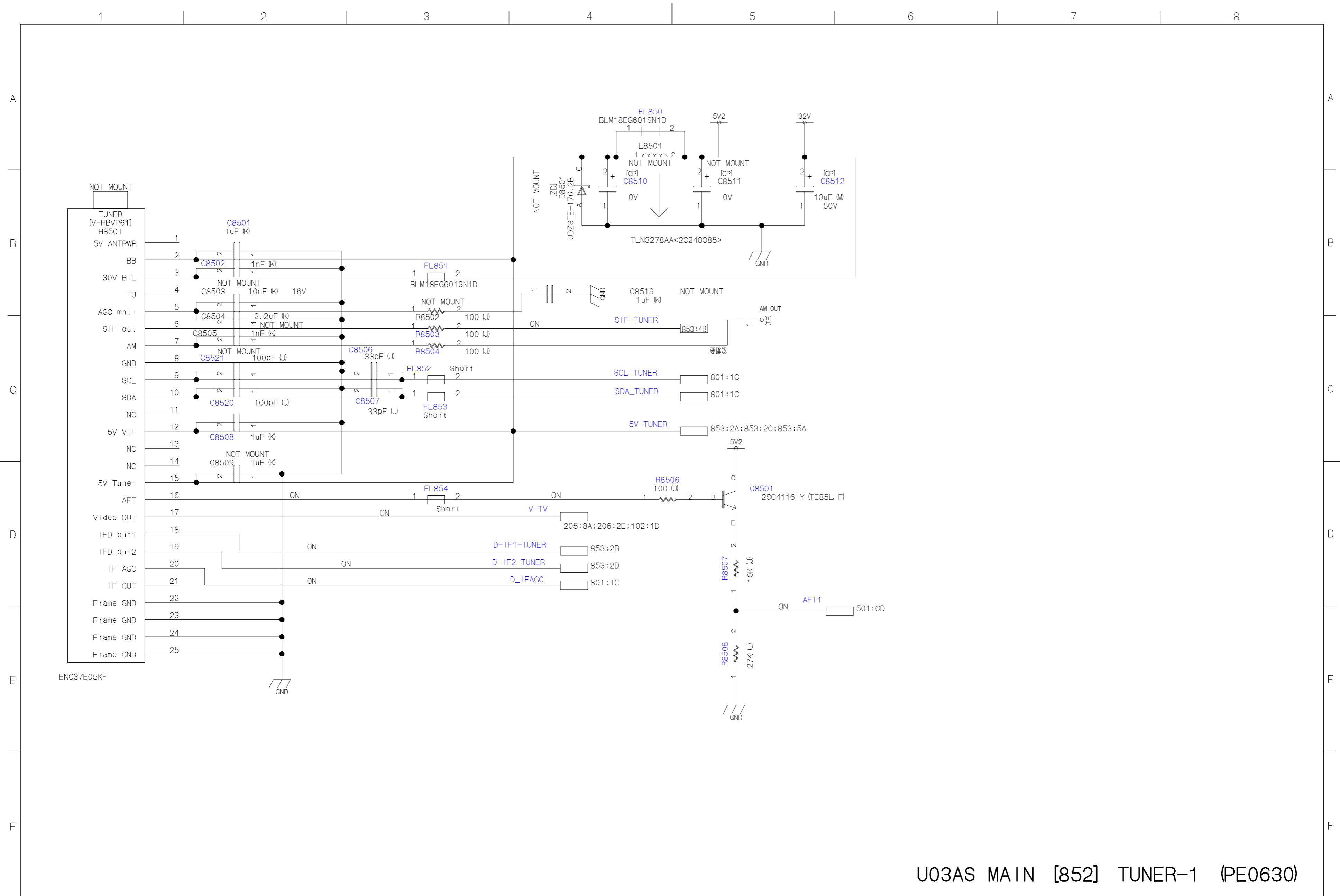
1 2 3 4 5 6 7 8



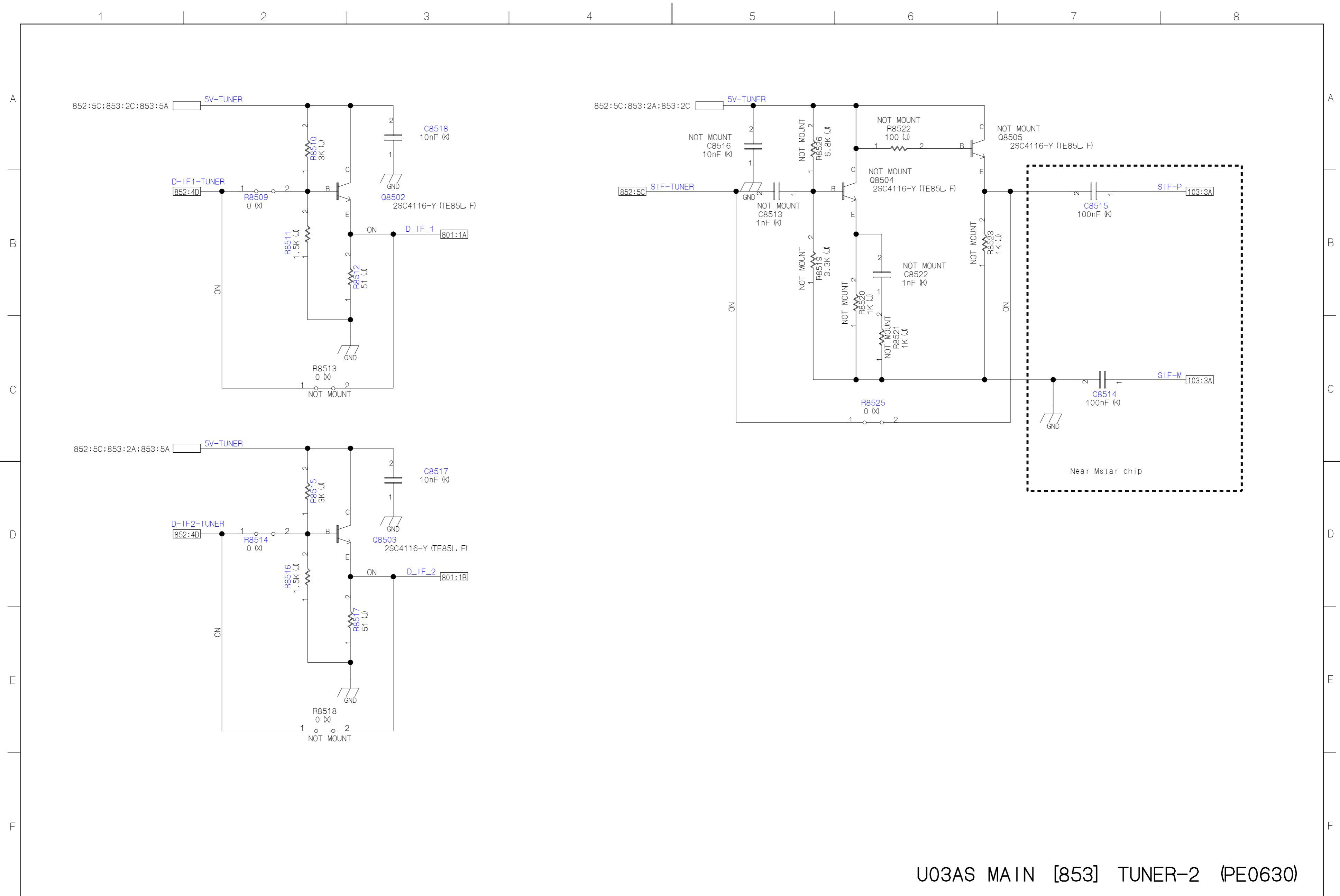
U03AS MAIN [708] SLOW BUS SBD REGISTER (PE0630)



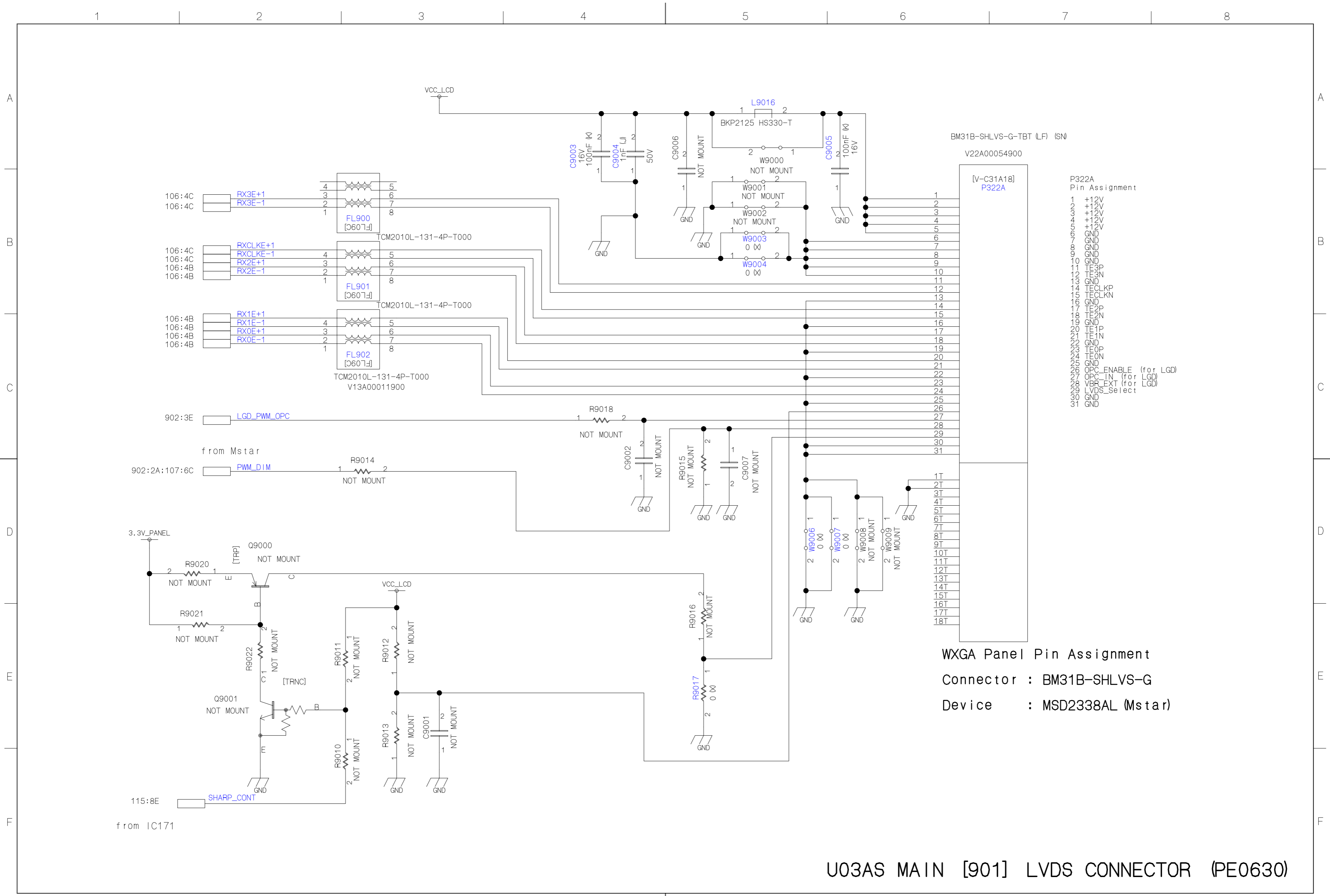
U03AS MAIN [801] Demodulator (PE0630)



U03AS MAIN [852] TUNER-1 (PE0630)



U03AS MAIN [853] TUNER-2 (PE0630)

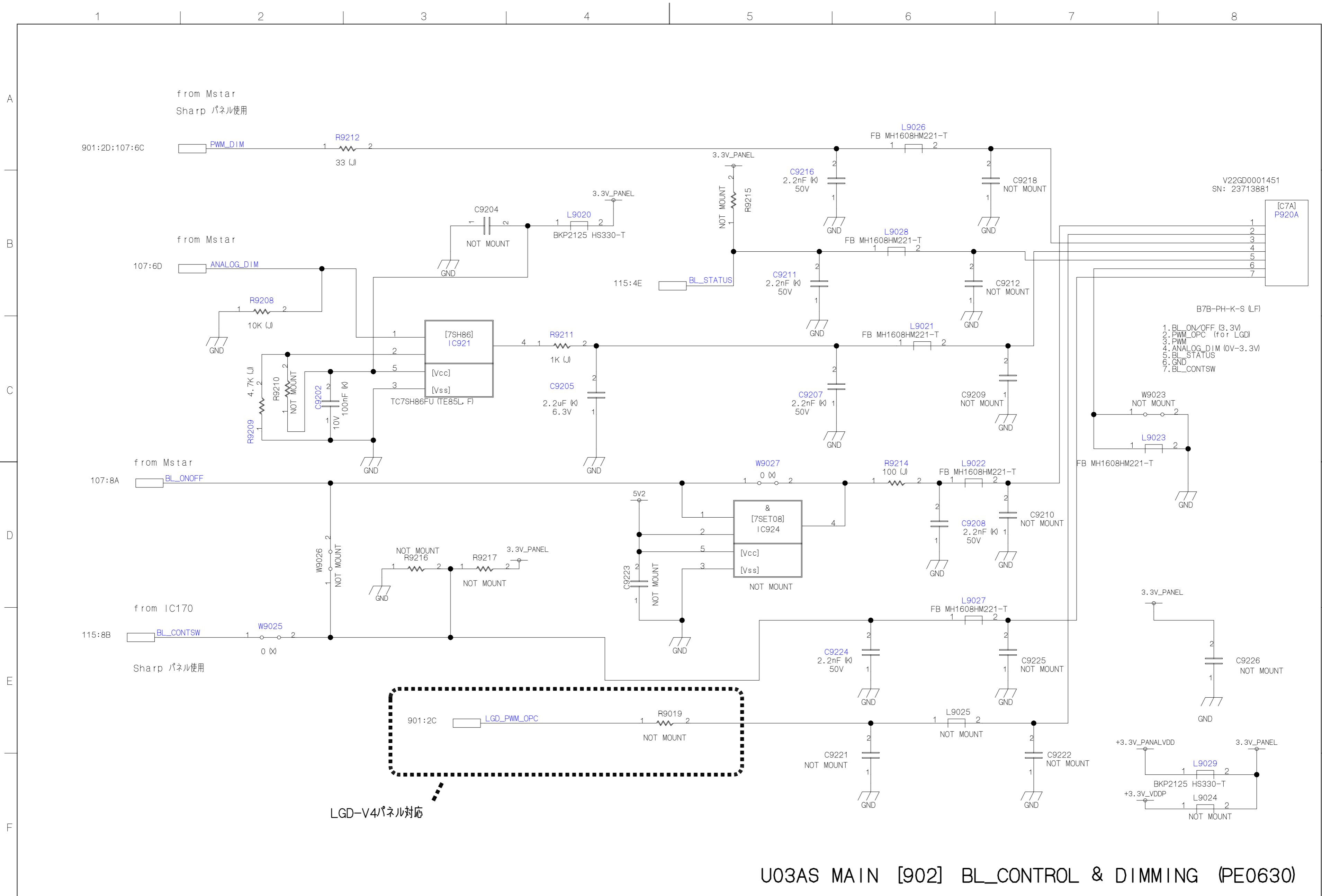


P322A
Pin Assignment

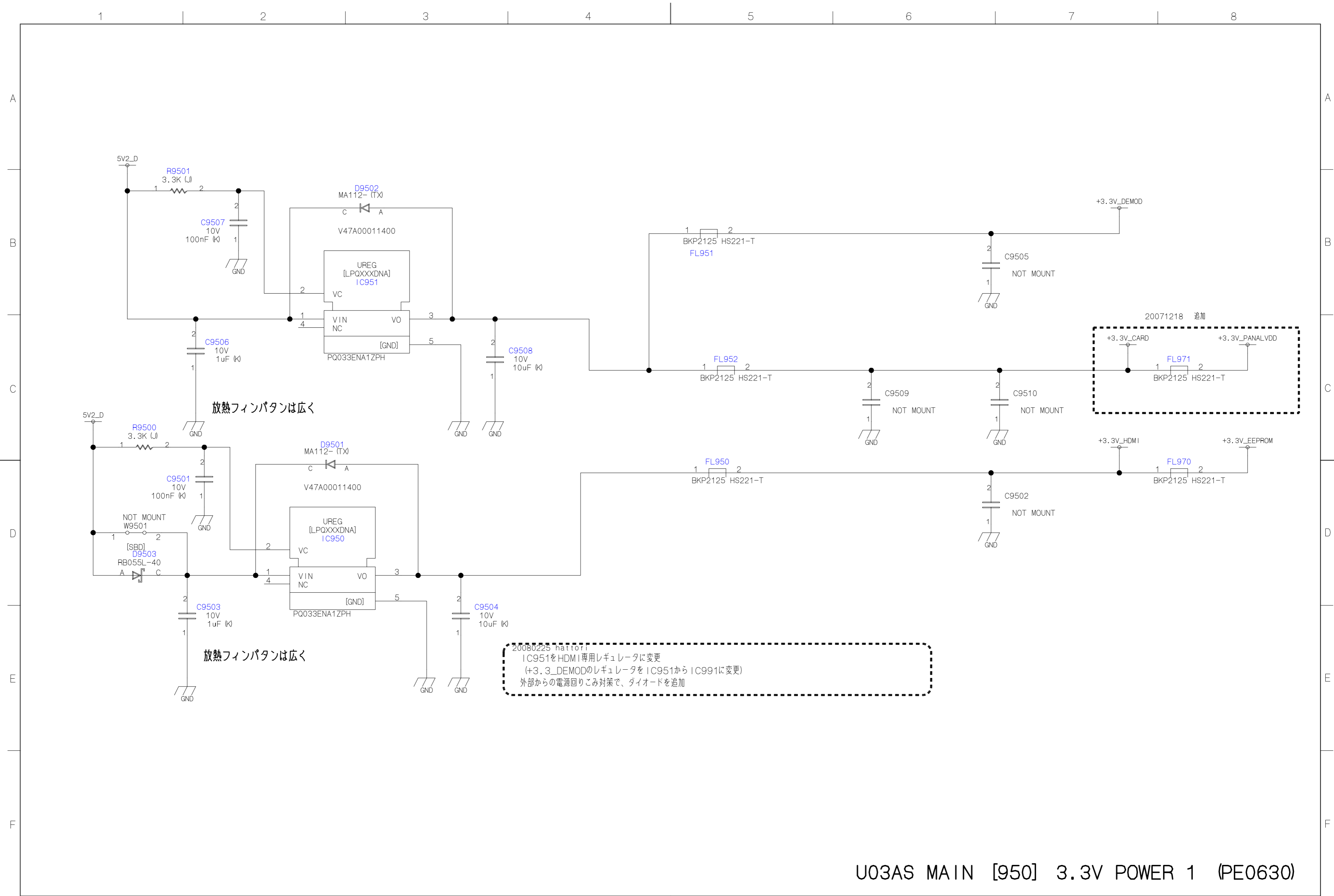
1	+12V
2	+12V
3	+12V
4	+12V
5	+12V
6	GND
7	GND
8	GND
9	GND
10	GND
11	TE3P
12	TE3N
13	GND
14	TECLKP
15	TECLKN
16	GND
17	TE2P
18	TE2N
19	GND
20	TE1P
21	TE1N
22	GND
23	TE0P
24	TE0N
25	GND
26	OPC_ENABLE (for LGD)
27	OPC_IN (for LGD)
28	VPR_EXT (for LGD)
29	LVDS_Select
30	GND
31	GND

WXGA Panel Pin Assignment
 Connector : BM31B-SHLVS-G
 Device : MSD2338AL (Mstar)

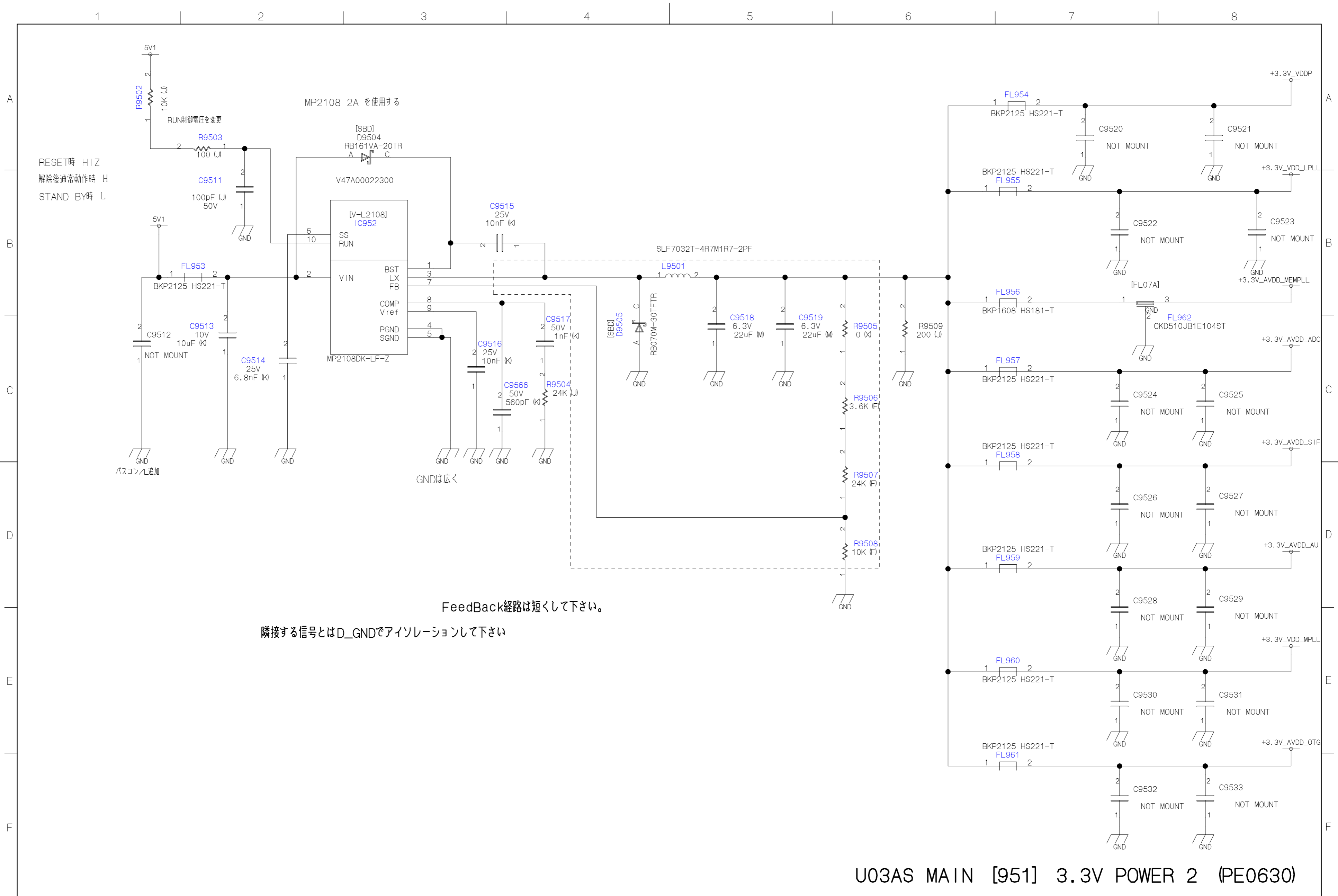
U03AS MAIN [901] LVDS CONNECTOR (PE0630)



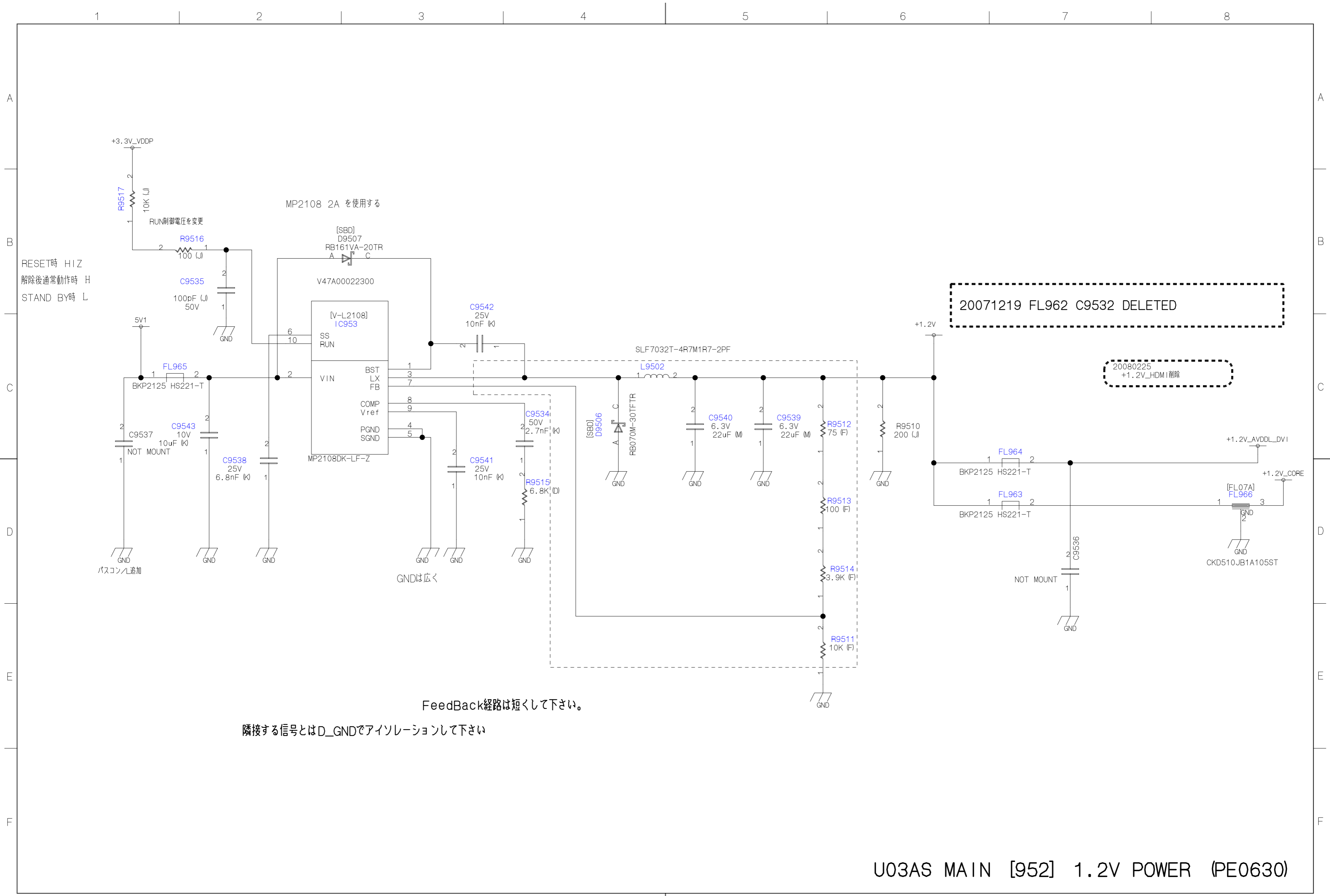
U03AS MAIN [902] BL_CONTROL & DIMMING (PE0630)



U03AS MAIN [950] 3.3V POWER 1 (PE0630)



U03AS MAIN [951] 3.3V POWER 2 (PE0630)



RESET時 HIZ
解除後通常動作時 H
STAND BY時 L

バスコン/L追加

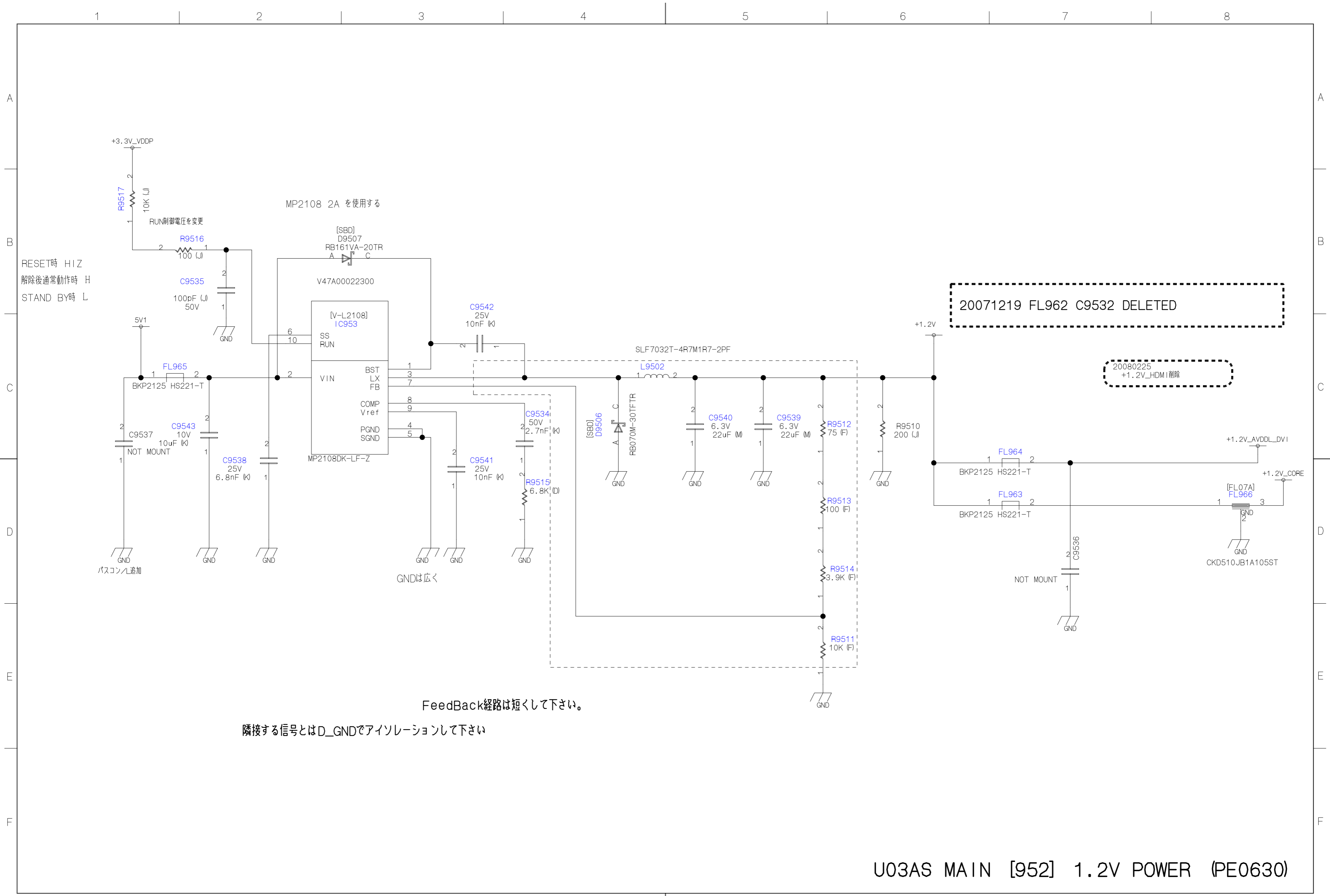
GNDは広く

Feedback経路は短くして下さい。

隣接する信号とはD_GNDでアイソレーションして下さい

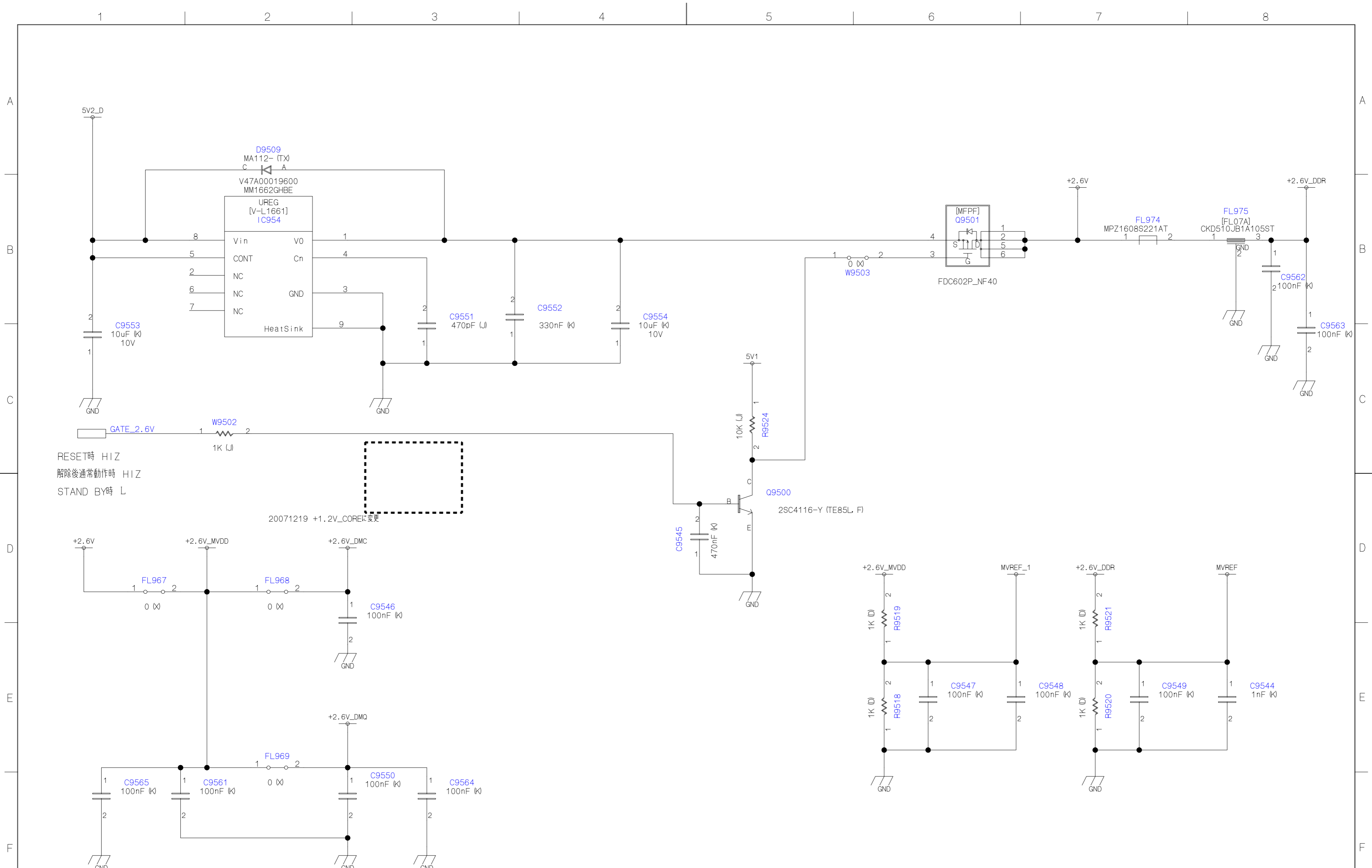
20071219 FL962 C9532 DELETED

20080225
+1.2V_HDMI削除

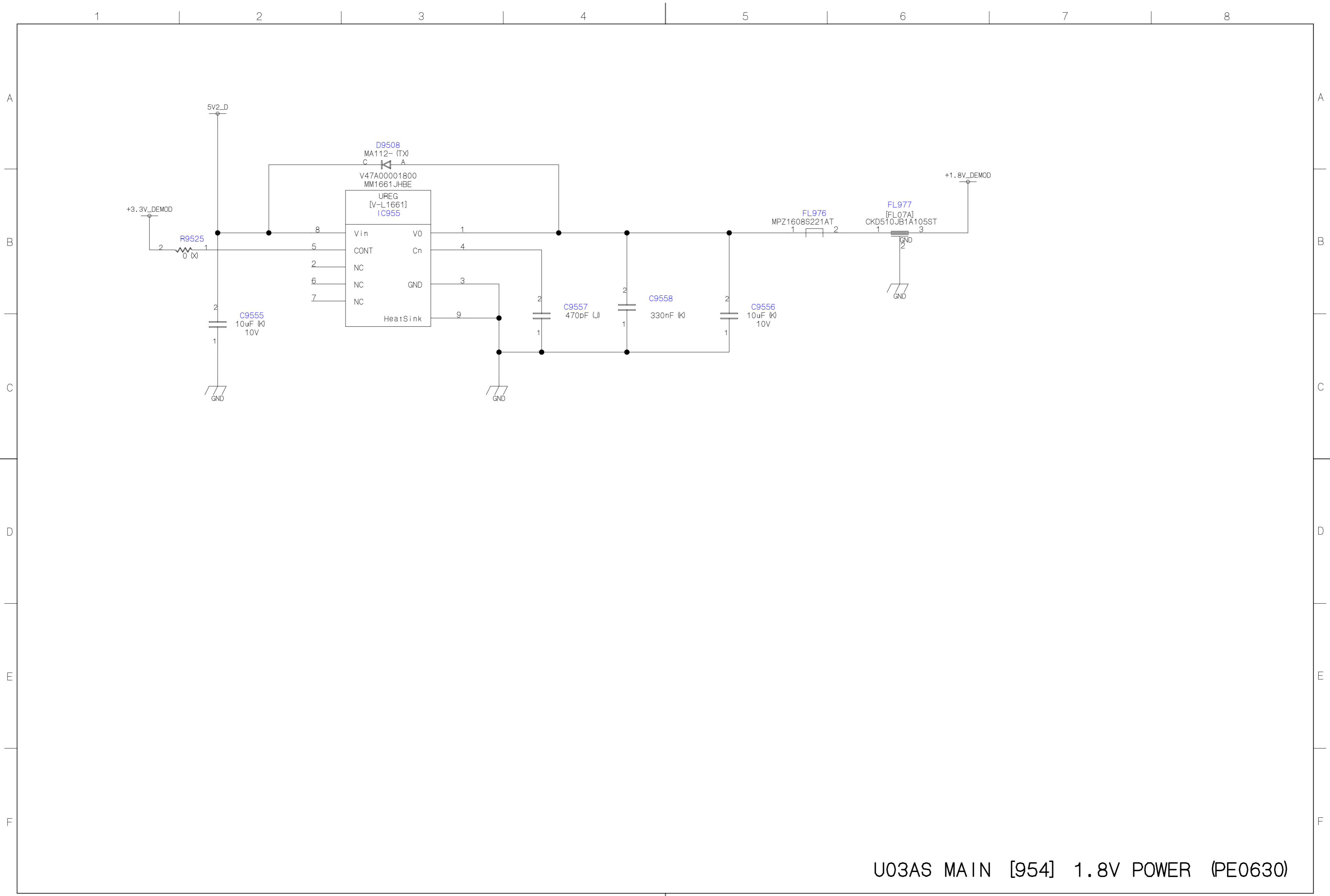


A
B
C
D
E
F

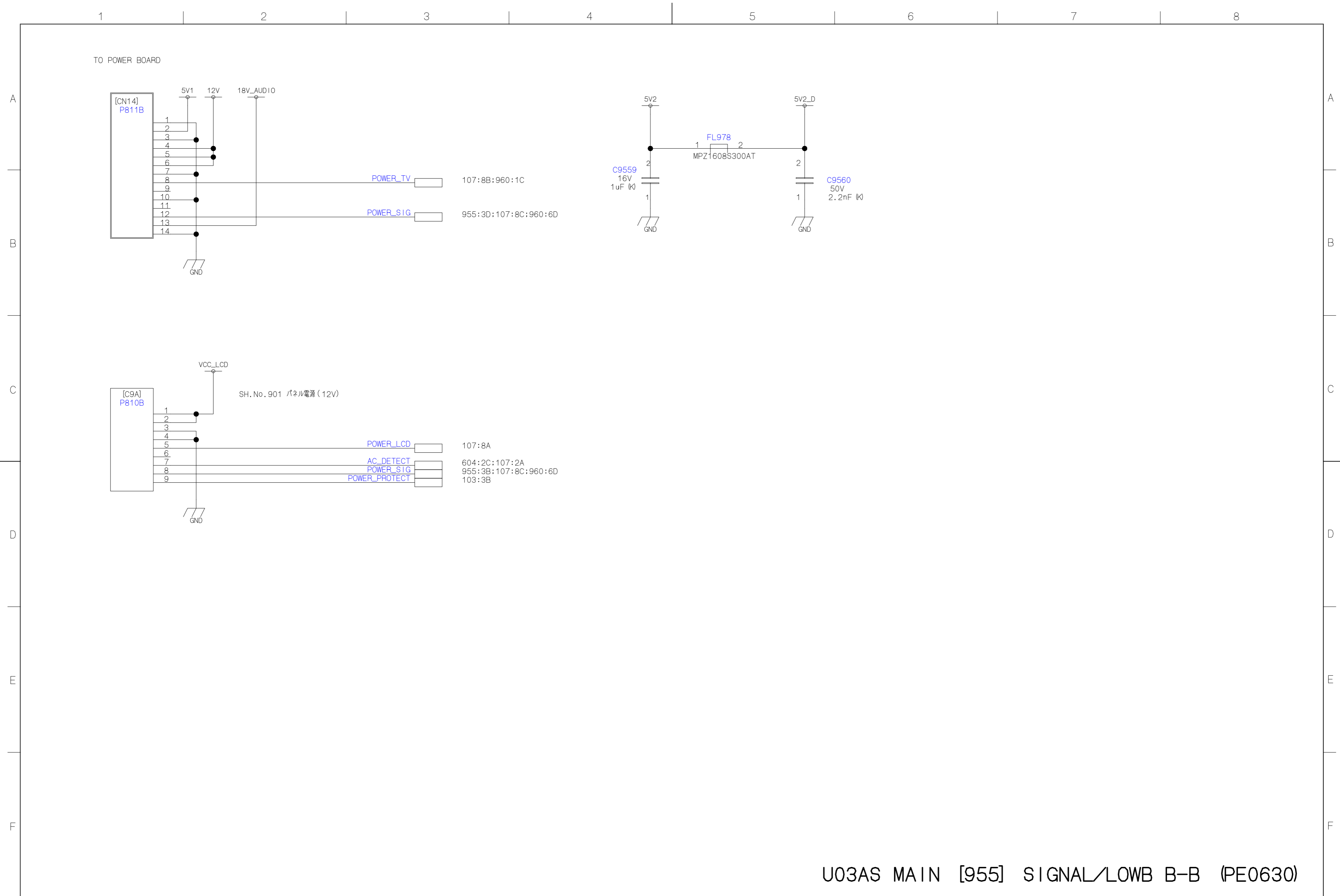
A
B
C
D
E
F

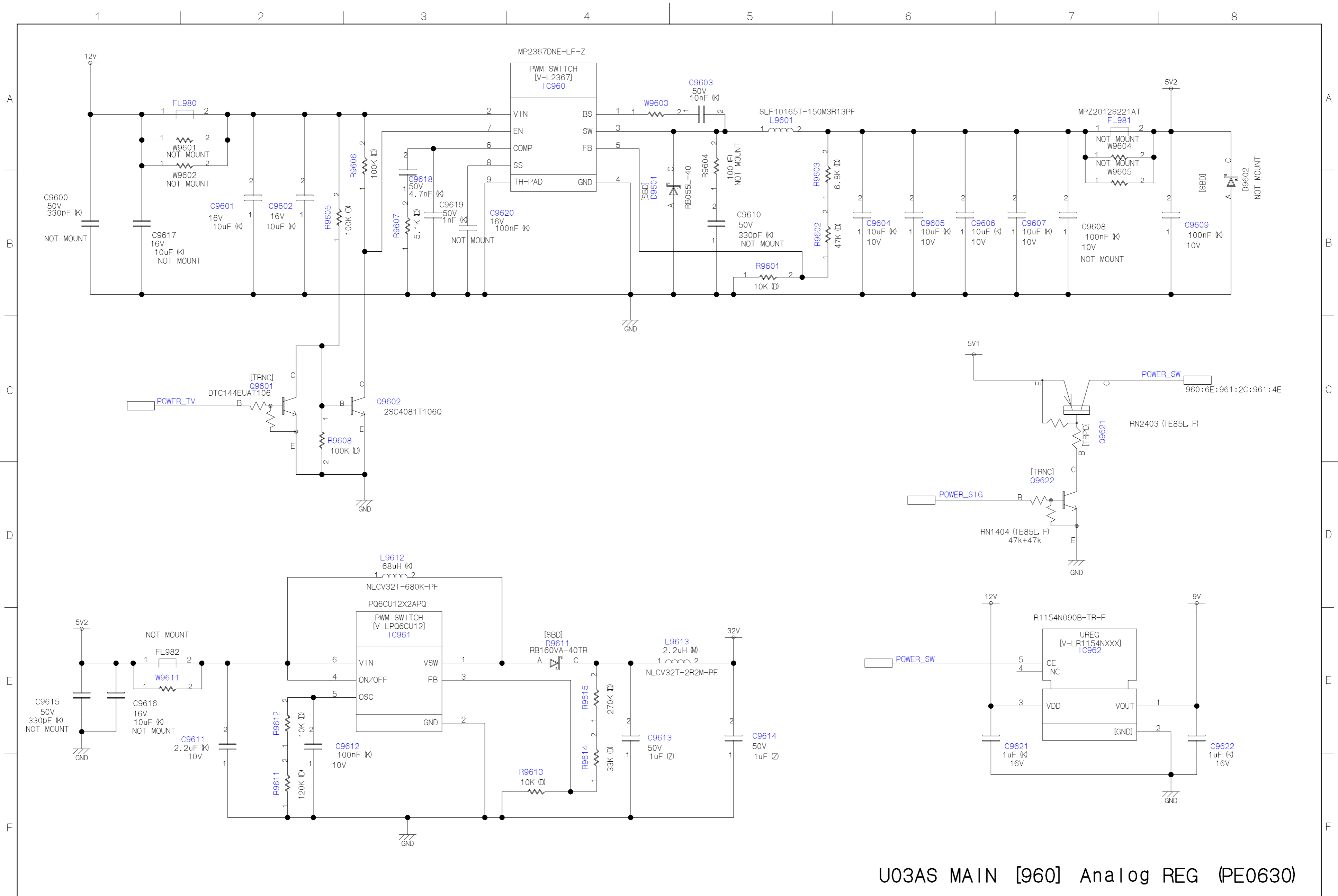


U03AS MAIN [953] 2.6V POWER (PE0630)

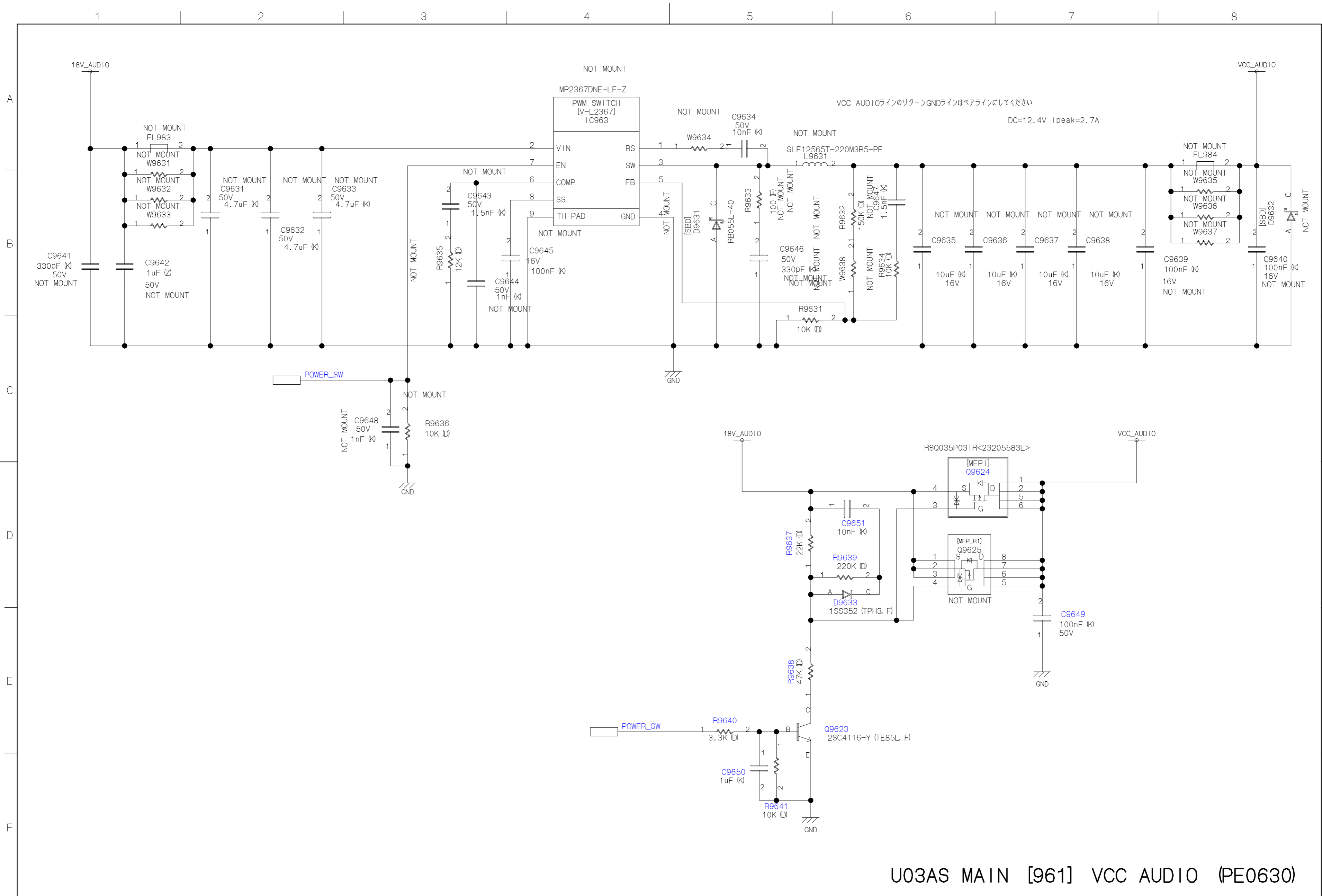


U03AS MAIN [954] 1.8V POWER (PE0630)



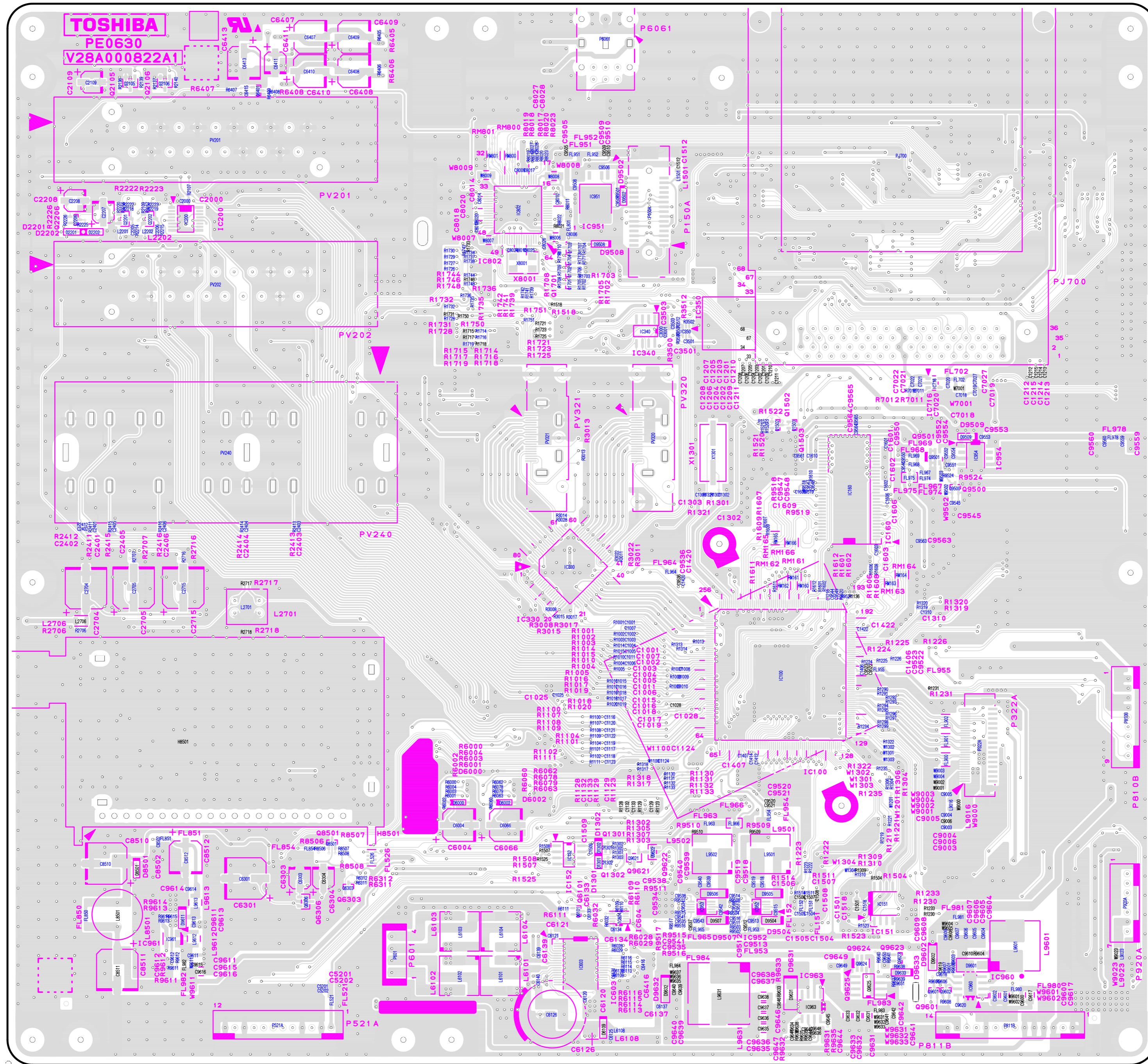


U03AS MAIN [960] Analog REG (PE0630)

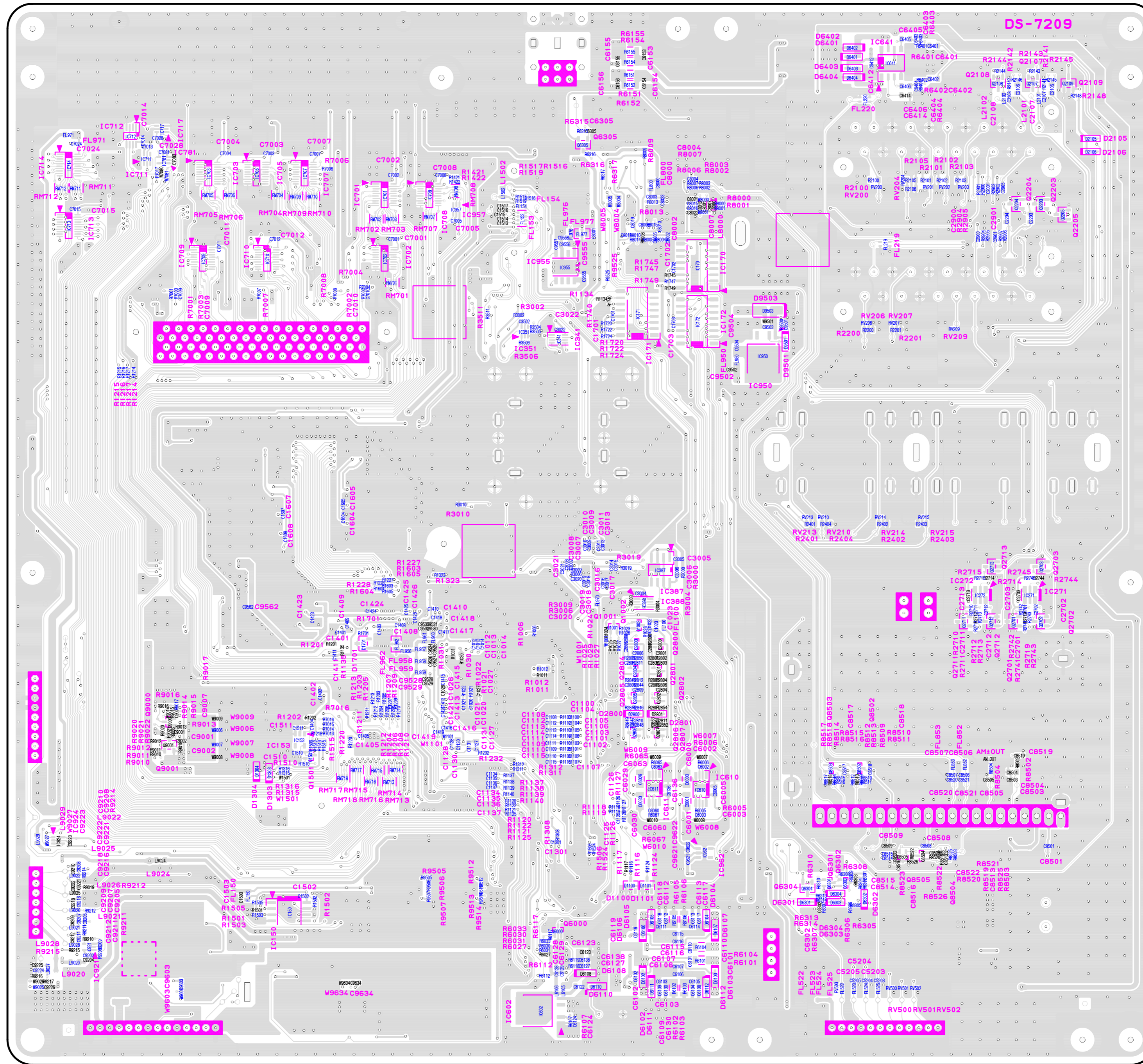


U03AS MAIN [961] VCC AUDIO (PE0630)

U03AS MAIN [Top] (PE0630)



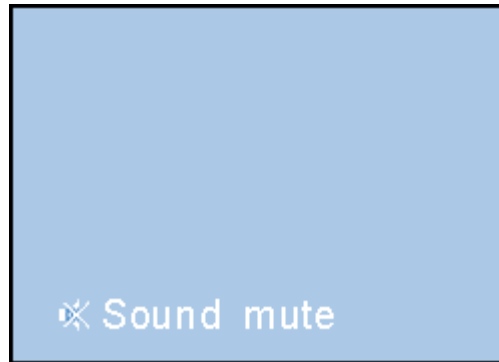
U03AS MAIN [Bottom] (PE0630)




ADJUSTMENT


Service Mode

Entering to Service Mode



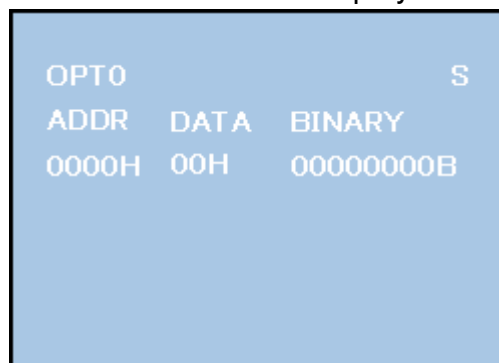
1. Set VOLUME to minimum and press  button once on remote control.




2. Press  button again and hold button down.



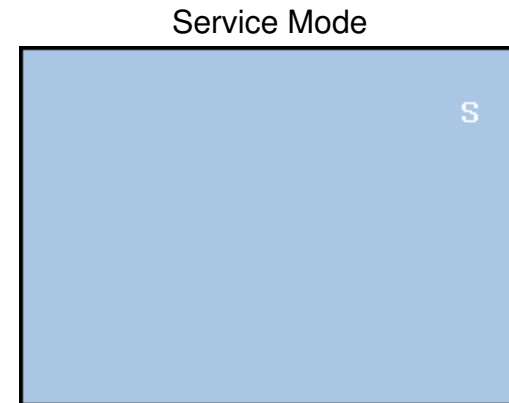
Service Mode display



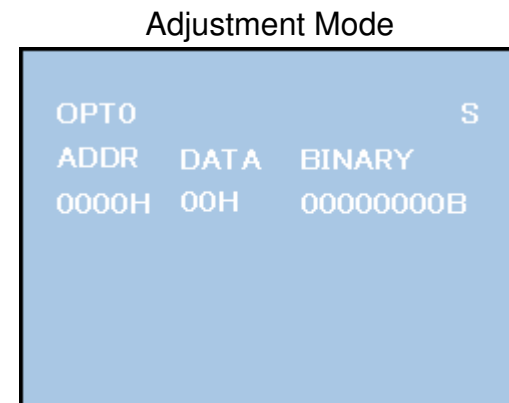
3. While holding the  button, press MENU button on TV set.

Displaying the Adjustment Menu

Press MENU button on TV.




Press ↑ ↓ Press



Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

 button (on remote control)

Test signal selection	
Selection of the adjustment items	CH ▲/▼ (on TV) or MENU ▲/▼ (on remote control)
Change of the data value	Volume ▲/▼ +/- (on TV) or MENU RIGHT/LEFT (on remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (IC152)	CALL + CH ▲ button on TV
Automatic A/D Adjustment (Component, Composite (PAL, NTSC), RGB)	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Item

Every pressing of MENU UP ▲ button in the service mode changes the adjustment items in the order of table below. (MENU DOWN ▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.

The PAL value is indicated in the table.

Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	Name of adjustment
PLLW0	PLL WAIT TIME
PLLW1	PLL WAIT TIME
PLLW2	PLL WAIT TIME
PLLW3	PLL WAIT TIME
PLLW4	PLL WAIT TIME

PLLW5	PLL WAIT TIME
OPT1	TV SET OPTION 1
OPT2	TV SET OPTION 2
OPT3	TV SET OPTION 3
OPT4	TV SET OPTION 4 (PANEL OPT DATA FOR VENDOR)
OPT5	TV SET OPTION 5 (PANEL OPT DATA FOR INCH)
OPT6	TV SET OPTION 6 (HOTEL MODE)
OPT7	TV SET OPTION 7 (HOTEL MODE)
OPT8	TV SET OPTION 8 (HOTEL MODE)
TVOP	TV SET OPTION
ID	MODEL ID
BDWID	BORDER WIDTH FOR EXACT SCAN
BDHIT	BORDER HEIGHT FOR EXACT SCAN
VOLUX	MAX VOLUME LIMITED
RCUT	R CUT OFF
GCUT	G CUT OFF
BCUT	B CUT OFF
RDRV	R DRIVE
GDRV	G DRIVE
BDRV	B DRIVE
CNTX DTV DYNAMIC	CONTRAST MAX FOR DTV DYNAMIC
CNTX DTV STANDARD	CONTRAST MAX FOR DTV STANDARD
CNTX DTV MILD	CONTRAST MAX FOR DTV MILD
CNTX DTV MOVIE	CONTRAST MAX FOR DTV MOVIE
CNTX VIDEO DYNAMIC	CONTRAST MAX FOR VIDEO DYNAMIC
CNTX VIDEO STANDARD	CONTRAST MAX FOR VIDEO STANDARD
CNTX VIDEO MILD	CONTRAST MAX FOR VIDEO MILD
CNTX VIDEO MOVIE	CONTRAST MAX FOR VIDEO MOVIE
CNTX YPBPR HD DYNAMIC	CONTRAST MAX FOR YPBPR HD DYNAMIC
CNTX YPBPR HD STANDARD	CONTRAST MAX FOR YPBPR HD STANDARD
CNTX YPBPR HD MILD	CONTRAST MAX FOR YPBPR HD MILD
CNTX YPBPR HD MOVIE	CONTRAST MAX FOR YPBPR HD MOVIE
CNTX YPBPR SD STANDARD	CONTRAST MAX FOR YPBPR SD STANDARD

	CONTRAST MAX FOR YPBPR SD MILD
CNTX YPBPR SD MOVIE	CONTRAST MAX FOR YPBPR SD MOVIE
CNTX HDMI PC DYNAMIC	CONTRAST MAX FOR HDMI PC DYNAMIC
CNTX HDMI PC STANDARD	CONTRAST MAX FOR HDMI PC STANDARD
CNTX HDMI PC MILD	CONTRAST MAX FOR HDMI PC MILD
CNTX HDMI PC MOVIE	CONTRAST MAX FOR HDMI PC MOVIE
CNTX HDMI HD DYNAMIC	CONTRAST MAX FOR HDMI HD DYNAMIC
CNTX HDMI HD STANDARD	CONTRAST MAX FOR HDMI HD STANDARD
CNTX HDMI HD MILD	CONTRAST MAX FOR HDMI HD MILD
CNTX HDMI HD MOVIE	CONTRAST MAX FOR HDMI HD MOVIE
CNTX HDMI SD DYNAMIC	CONTRAST MAX FOR HDMI SD DYNAMIC
CNTX HDMI SD STANDARD	CONTRAST MAX FOR HDMI SD STANDARD
CNTX HDMI SD MILD	CONTRAST MAX FOR HDMI SD MILD
CNTX HDMI SD MOVIE	CONTRAST MAX FOR HDMI SD MOVIE
CNTX ATV DYNAMIC	CONTRAST MAX FOR ATV DYNAMIC
CNTX ATV STANDARD	CONTRAST MAX FOR ATV STANDARD
CNTX ATV MILD	CONTRAST MAX FOR ATV MILD
CNTX ATV MOVIE	CONTRAST MAX FOR ATV MOVIE
BRTC DTV DYNAMIC	BRIGHTNESS CENTER FOR DTV DYNAMIC
BRTC DTV STANDARD	BRIGHTNESS CENTER FOR DTV STANDARD
BRTC DTV MILD	BRIGHTNESS CENTER FOR DTV MILD
BRTC DTV MOVIE	BRIGHTNESS CENTER FOR DTV MOVIE
BRTC VIDEO DYNAMIC	BRIGHTNESS CENTER FOR VIDEO DYNAMIC
BRTC VIDEO STANDARD	BRIGHTNESS CENTER FOR VIDEO STANDARD
BRTC VIDEO MILD	BRIGHTNESS CENTER FOR VIDEO MILD
BRTC VIDEO MOVIE	BRIGHTNESS CENTER FOR VIDEO MOVIE
BRTC YPBPR HD DYNAMIC	BRIGHTNESS CENTER FOR YPBPR HD DYNAMIC
BRTC YPBPR HD STANDARD	BRIGHTNESS CENTER FOR YPBPR HD STANDARD
BRTC YPBPR HD MILD	BRIGHTNESS CENTER FOR YPBPR HD MILD
BRTC YPBPR HD MOVIE	BRIGHTNESS CENTER FOR YPBPR HD MOVIE
BRTC YPBPR SD DYNAMIC	BRIGHTNESS CENTER FOR YPBPR SD DYNAMIC
BRTC YPBPR SD STANDARD	BRIGHTNESS CENTER FOR YPBPR SD STANDARD
BRTC YPBPR SD MILD	BRIGHTNESS CENTER FOR YPBPR SD MILD

	BRIGHTNESS CENTER FOR YPBPR SD MOVIE
BRTC HDMI PC DYNAMIC	BRIGHTNESS CENTER FOR HDMI PC DYNAMIC
BRTC HDMI PC STANDARD	BRIGHTNESS CENTER FOR HDMI PC STANDARD
BRTC HDMI PC MILD	BRIGHTNESS CENTER FOR HDMI PC MILD
BRTC HDMI PC MOVIE	BRIGHTNESS CENTER FOR HDMI PC MOVIE
BRTC HDMI HD DYNAMIC	BRIGHTNESS CENTER FOR HDMI HD DYNAMIC
BRTC HDMI HD STANDARD	BRIGHTNESS CENTER FOR HDMI HD STANDARD
BRTC HDMI HD MILD	BRIGHTNESS CENTER FOR HDMI HD MILD
BRTC HDMI HD MOVIE	BRIGHTNESS CENTER FOR HDMI HD MOVIE
BRTC HDMI SD DYNAMIC	BRIGHTNESS CENTER FOR HDMI SD DYNAMIC
BRTC HDMI SD STANDARD	BRIGHTNESS CENTER FOR HDMI SD STANDARD
BRTC HDMI SD MILD	BRIGHTNESS CENTER FOR HDMI SD MILD
BRTC HDMI SD MOVIE	BRIGHTNESS CENTER FOR HDMI SD MOVIE
BRTC ATV DYNAMIC	BRIGHTNESS CENTER FOR ATV DYNAMIC
BRTC ATV STANDARD	BRIGHTNESS CENTER FOR ATV STANDARD
BRTC ATV MILD	BRIGHTNESS CENTER FOR ATV MILD
BRTC ATV MOVIE	BRIGHTNESS CENTER FOR ATV MOVIE
COLC DTV DYNAMIC	COLOR CENTER FOR DTV DYNAMIC
COLC DTV STANDARD	COLOR CENTER FOR DTV STANDARD
COLC DTV MILD	COLOR CENTER FOR DTV MILD
COLC DTV MOVIE	COLOR CENTER FOR DTV MOVIE
COLC VIDEO DYNAMIC	COLOR CENTER FOR VIDEO DYNAMIC
COLC VIDEO STANDARD	COLOR CENTER FOR VIDEO STANDARD
COLC VIDEO MILD	COLOR CENTER FOR VIDEO MILD
COLC VIDEO MOVIE	COLOR CENTER FOR VIDEO MOVIE
COLC YPBPR HD DYNAMIC	COLOR CENTER FOR YPBPR HD DYNAMIC
COLC YPBPR HD STANDARD	COLOR CENTER FOR YPBPR HD STANDARD
COLC YPBPR HD MILD	COLOR CENTER FOR YPBPR HD MILD
COLC YPBPR HD MOVIE	COLOR CENTER FOR YPBPR HD MOVIE
COLC YPBPR SD DYNAMIC	COLOR CENTER FOR YPBPR SD DYNAMIC
COLC YPBPR SD STANDARD	COLOR CENTER FOR YPBPR SD STANDARD
COLC YPBPR SD MILD	COLOR CENTER FOR YPBPR SD MILD
COLC YPBPR SD MOVIE	COLOR CENTER FOR YPBPR SD MOVIE

	COLOR CENTER FOR HDMI PC DYNAMIC
COLC HDMI PC STANDARD	COLOR CENTER FOR HDMI PC STANDARD
COLC HDMI PC MILD	COLOR CENTER FOR HDMI PC MILD
COLC HDMI PC MOVIE	COLOR CENTER FOR HDMI PC MOVIE
COLC HDMI HD DYNAMIC	COLOR CENTER FOR HDMI HD DYNAMIC
COLC HDMI HD STANDARD	COLOR CENTER FOR HDMI HD STANDARD
COLC HDMI HD MILD	COLOR CENTER FOR HDMI HD MILD
COLC HDMI HD MOVIE	COLOR CENTER FOR HDMI HD MOVIE
COLC HDMI SD DYNAMIC	COLOR CENTER FOR HDMI SD DYNAMIC
COLC HDMI SD STANDARD	COLOR CENTER FOR HDMI SD STANDARD
COLC HDMI SD MILD	COLOR CENTER FOR HDMI SD MILD
COLC HDMI SD MOVIE	COLOR CENTER FOR HDMI SD MOVIE
COLC ATV DYNAMIC	COLOR CENTER FOR ATV DYNAMIC
COLC ATV STANDARD	COLOR CENTER FOR ATV STANDARD
COLC ATV MILD	COLOR CENTER FOR ATV MILD
COLC ATV MOVIE	COLOR CENTER FOR ATV MOVIE
UVTT DTV DYNAMIC	BASE BAND TINT FOR DTV DYNAMIC
UVTT DTV STANDARD	BASE BAND TINT FOR DTV STANDARD
UVTT DTV MILD	BASE BAND TINT FOR DTV MILD
UVTT DTV MOVIE	BASE BAND TINT FOR DTV MOVIE
UVTT VIDEO DYNAMIC	BASE BAND TINT FOR VIDEO DYNAMIC
UVTT VIDEO STANDARD	BASE BAND TINT FOR VIDEO STANDARD
UVTT VIDEO MILD	BASE BAND TINT FOR VIDEO MILD
UVTT VIDEO MOVIE	BASE BAND TINT FOR VIDEO MOVIE
UVTT YPBPR HD DYNAMIC	BASE BAND TINT FOR YPBPR HD DYNAMIC
UVTT YPBPR HD STANDARD	BASE BAND TINT FOR YPBPR HD STANDARD
UVTT YPBPR HD MILD	BASE BAND TINT FOR YPBPR HD MILD
UVTT YPBPR HD MOVIE	BASE BAND TINT FOR YPBPR HD MOVIE
UVTT YPBPR SD DYNAMIC	BASE BAND TINT FOR YPBPR SD DYNAMIC
UVTT YPBPR SD STANDARD	BASE BAND TINT FOR YPBPR SD STANDARD
UVTT YPBPR SD MILD	BASE BAND TINT FOR YPBPR SD MILD
UVTT YPBPR SD MOVIE	BASE BAND TINT FOR YPBPR SD MOVIE
UVTT HDMI PC DYNAMIC	BASE BAND TINT FOR HDMI PC DYNAMIC

	BASE BAND TINT FOR HDMI PC STANDARD
UVTT HDMI PC MILD	BASE BAND TINT FOR HDMI PC MILD
UVTT HDMI PC MOVIE	BASE BAND TINT FOR HDMI PC MOVIE
UVTT HDMI HD DYNAMIC	BASE BAND TINT FOR HDMI HD DYNAMIC
UVTT HDMI HD STANDARD	BASE BAND TINT FOR HDMI HD STANDARD
UVTT HDMI HD MILD	BASE BAND TINT FOR HDMI HD MILD
UVTT HDMI HD MOVIE	BASE BAND TINT FOR HDMI HD MOVIE
UVTT HDMI SD DYNAMIC	BASE BAND TINT FOR HDMI SD DYNAMIC
UVTT HDMI SD STANDARD	BASE BAND TINT FOR HDMI SD STANDARD
UVTT HDMI SD MILD	BASE BAND TINT FOR HDMI SD MILD
UVTT HDMI SD MOVIE	BASE BAND TINT FOR HDMI SD MOVIE
UVTT ATV DYNAMIC	BASE BAND TINT FOR ATV DYNAMIC
UVTT ATV STANDARD	BASE BAND TINT FOR ATV STANDARD
UVTT ATV MILD	BASE BAND TINT FOR ATV MILD
UVTT ATV MOVIE	BASE BAND TINT FOR ATV MOVIE

Adjusting the Data

Pressing of MENU RIGHT/LEFT button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

Setting TVOP

Enter to service mode and select menu of TVOP by pressing MENU UP or DOWN during display of adjustment menu. After selecting TVOP, press MENU RIGHT or LEFT to set WDT function to disable or enable as below.

TVOP	FUNCTION DESCRIPTION	1	0 (Normal)
D5 (bit5)	TV-Micon Watch Dog Timer (WDT)	Disable	Enable

Setting Panel Option Data

Panel option data is subject to OPT4 and OPT5.

Enter to service mode and select menu of OPT4 or OPT5 by pressing P▲ or P▼ during display of adjustment menu. After selecting OPT4 or OPT5, press ▲+ or ▲- to set OPT4 or OPT5 value as table below.

Panel option data

Series		Model name	Panel vendor	OPT4 value	OPT5 value
AV555D	EU Digital	32AV555D/554D	SHARP	0x02	0x05
AV554D		37AV555D/554D	LGD	0x01	0x06
		42AV555D/554D	LGD	0x01	0x07

OPT4

Ex. OPT4 value 0x02 indicates that panel vendor is SHARP.

		OPT4							
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel vendor	LGD	-	-	-	-	0	0	0	1
	SHARP	-	-	-	-	0	0	1	0
	CMO	-	-	-	-	0	0	1	1
	AUO PMVA	-	-	-	-	0	1	0	0
	AUO AMVA	-	-	-	-	0	1	0	1
	SAMSUNG	-	-	-	-	0	1	1	0
	IPS	-	-	-	-	0	1	1	1

OPT5

Ex. OPT5 value 0x05 indicates that panel size is 32.

		OPT5							
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Size	26	-	-	-	-	0	0	1	1

	32	-	-	-	-	0	1	0	1
	37	-	-	-	-	0	1	1	0
	42	-	-	-	-	0	1	1	1
Backlight Status Logic	Positive	-	-	1	-	-	-	-	-
	Negative			0					
Backlight Status Check	Execute	-	1	-	-	-	-	-	-
	Unexecuted		0						
Backlight Force Twice On	Execute	1	-	-	-	-	-	-	-
	Unexecuted	0							

Convert from Bit (Binary) to Hex

The table for converting from bit (D7-D0) to hex (0x**).

		BIT (Binary)			
High nibble		D7	D6	D5	D4
Low nibble		D3	D2	D1	D0
HEX	0	0	0	0	0
	1	0	0	0	1
	2	0	0	1	0
	3	0	0	1	1
	4	0	1	0	0
	5	0	1	0	1
	6	0	1	1	0
	7	0	1	1	1
	8	1	0	0	0
	9	1	0	0	1
	A	1	0	1	0
	B	1	0	1	1
	C	1	1	0	0
	D	1	1	0	1
	E	1	1	1	0




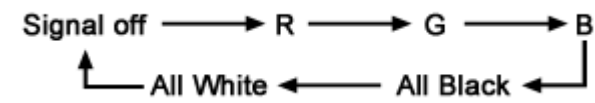
E.g. If Bit D7-0 = 0101 1010, Hex data is 0x5A.





Exit from Service Mode

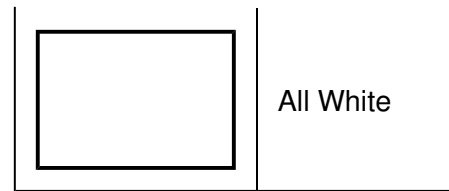
Pressing POWER button to turn off the TV once.

Test Signal Selection

Every pressing of  button on the remote control changes the built-in test patterns on screen as described below in Service Mode.



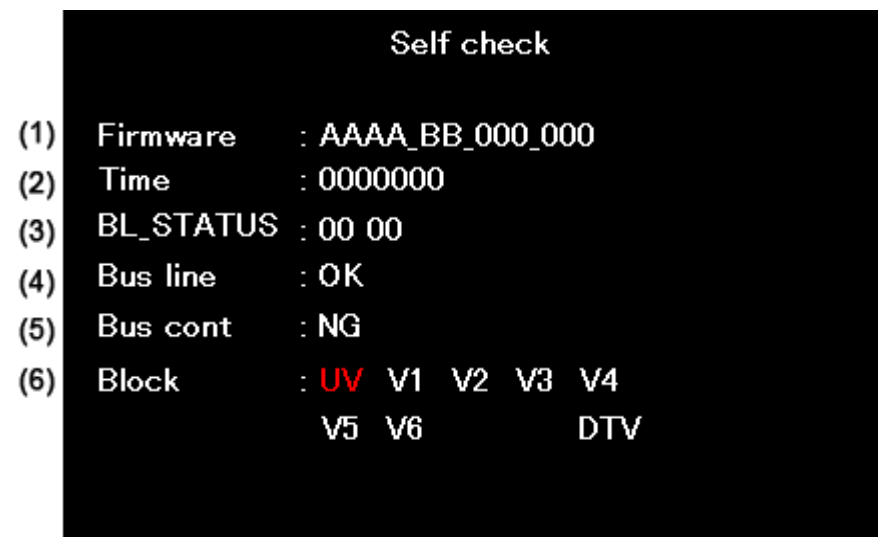
Picture	Signal
	Red raster
	Green raster
	Blue raster
	All Black



Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.
2. During diagnosis, the following displays are shown.

* Self check display and Item are subject to the models.



- (1) Firmware :
Version information of microprocessor
Series name (AAAA) and market area (BB) and software program version (000_000).
- (2) Time : Total hour of turn the TV on. (Unit : H)
- (3) BL_STATUS :
Counter for saving BackLight on error1.
This value is counted till 99 (Decimal).
- (4) Bus line : -- "OK" is normal
SCL-GND (Red indication) : SCL-GND short circuit
SDA-GND (Red indication) : SDA-GND short circuit
SCL-SDA (Red indication) : SCL-SDA short circuit

(5) Bus cont : --- "OK" is normal.
 NG is abnormal (Red indication).

(6) Block

UV : TV reception mode
 V1 - V6 : VIDEO 1-6 input mode
 DTV : DTV mode

UV	ATV
V1	→ 1 (SCART (FULL))
V2	→ 2 (SCART (S+AV))
V3	→ 3 (Component)
V4	→ 4 (Composite)
V5	HDMI1
V6	HDMI2
V7	--
V8	--
V9	--
PC	--
YUV	--
DTV	DTV

Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the service mode.
 The version of main MPU will be checked.
2. During Version Check, the following displays are shown.

* Version check display and Item are subject to the models.

```

Version check
(1) MAIN MPU      : AAAA_BB_000_000
(2) EEPROM       : 00

(3) OPTION       : 11 22 33 44 55 66 77 88
(4) HDMI EDID    : OK
(5) BL Ver       : 000.000
(6) AP Ver       : 000.000
(7) A/D Adjust   :          COMP RGB NTSC PAL
                   OK      NG  OK  NG

(8) DRMA0000-REV00
                   MODEL NAME 00-DDD
                   (9)      (10)

```

(1) MAIN MPU :

Version information of microprocessor
Series name and Code Program Version (5 figure number) and software program version (000_000).

(2) EEPROM :

Version information of EEPROM : Display 1 byte data.

(3) OPTION :

Option information : Display eight numbers of 1 byte data.

(4) HDMI EDID :

EDID data check item.
OK : EDID data is enable.
NG : EDID data is disable.

(5) BL Ver

Version information of Boot Loader software as Toshiba release.

(6) AP Ver

Version information of Application software as Toshiba release.

(7) A/D Adjust

A/D adjustment item.
--COMP : Component input

--RGB : RGB Signal (SCART input)
--NTSC : NTSC (60 Hz) SD signal (composite input).
--PAL : PAL (50 Hz) SD signal (composite input).
--OK : A/D adjustment set correctly.
--NG : A/D adjustment set incorrect.

(8) Memory Data Version

Version information of EEPROM.

DRMA***** means model number of EEPROM.

REV** means version of EEPROM.

(9) Model Name

Model name information (ascii code). : Display 8 byte data.

(10) LCD Panel Vendor information display

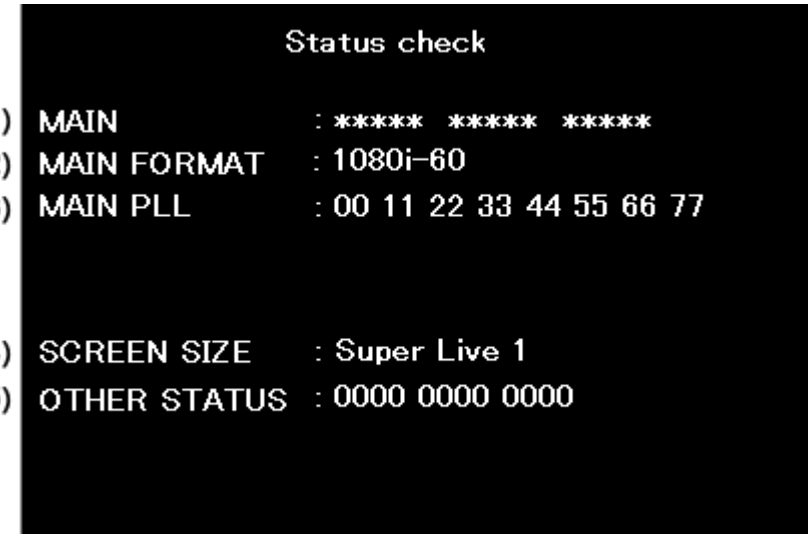
The following Panel Vendor (DDD) and screen size (00) and displayed.

Example : AUO-32 (1080p) indicates that Vendor is AUO and Screen Size is 32 inch and Full HD panel.

Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode.
The status of this model will be checked.
2. During Status Check, the following displays are shown.

* Status check display and Item are subject to the models.



(1) MAIN :

Main source information :

Display RF position number (0 - 999) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :

Display Video format information

(3) MAIN PLL :

Main PLL information : Display 1 byte data at eight.

(4) SCREEN SIZE :

Display the screen size as follows.

Native
Wide
Super Live 2
Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9
PC-Normal
PC-Wide

Note:

Exact Scan is shown only when 1080p panel model and video input mode except pc.

(5) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing MENU UP▲ or DOWN▼. After selecting Hotel Mode, press MENU RIGHT or LEFT to enter details setting in Hotel Mode.

To select menu, press MENU RIGHT or LEFT and press OK to enter the adjustment menu of the following table data.

To move the cursor in the adjustment, press MENU RIGHT or LEFT.

1. By pressing MENU RIGHT or LEFT, the following table data setting will change the value either 1 or 0 on selected items as follows;

OPT2

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	- (no use)	-	-
D6 (bit6)	Enable mode that TV On will be appeared in forced when turning the main power ON	Enable	Disable
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	All keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable (Service mode and Super User mode may possible to setting only)	Enable
D2 (bit2)	Disable SET UP MENU except language. (tuning SETUP MENU)	Disable (Display the language only)	Enable
D1 (bit1)	Disable SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting)	Off

		of D1 from to D7)	(Normal)
--	--	-------------------	----------

VOLUX

Set VOLUX as following.

- 1) Set speaker volume to 100. (Any value is OK, but 100 is better to check sound level.)
- 2) Down value of VOLUX until finding suitable sound volume level.

VOLUX	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D0 (bit0)	Max Limiter of Volume Control	0x00 ~ 0x7F (Normal: 0x7C)	

OPT6

OPT6	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that POS or VIDEO program number will be appeared in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	POS or VIDEO program number	0 ~ 127 [decimal] (Normal: 0) POS number: 0 ~ 99 VIDEO number: 100 ~ 127 (DTV = 100, VIDEO = 101, VIDEO = 102..) 100 is used as ATV when DTV option is disable.	

OPT7

OPT7	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that speaker volume will be set in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	Forced speaker volume	0 ~ 100 [decimal] (Normal: 0) Value above 100 is no effect.	

OPT8

--	--	--	--

OPT8	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D3 (bit3)	- (no use)	-	-
D2 (bit2)	Enable mode that picture mode will be set in forced when turn ON the main power	Enable (Display the language only)	Disable
D1 (bit1) ~ D0 (bit0)	Forced picture mode	0 [dec]: Dynamic (mode-1) (Normal) 1 [dec]: Standard (mode-2) 2 [dec]: Mild (mode-3) 3 [dec]: Memory (mode-M)	

LED Indications

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

- Red ON (solid) and Green OFF = The TV power cord is plugged in.
- Green ON (solid) only = The TV is operating.
- Green ON (solid) and Red ON = Active standby mode.

SOFTWARE UPGRADE

Software Upgrade

1. Unplug AC Power.
2. Insert USB Flash memory containing software to TV set.
3. Plug AC Power.
4. Progress bar is shown on TV screen while upgrading.
"100 %" is shown when completed.
Never power off while upgrading.
5. Unplug AC Power.
6. Remove USB Flash memory.
7. Plug AC Power.

TECHNICAL BULLETIN

File Name Title issuing date

PANEL IDENTIFICATION

Panel Identification

If the several panels are alternatively used in the same model without amending the model name, the identification marking will be shown at the last digit of the set serial number on the specification label on the back cover.

In servicing, do not alter the panel because several setting and parts are different.

Marking	Panel Vendor	Marking	Panel Vendor	Marking	Panel Vendor
A	AUO	J		S	SHARP
B		K	SAMSUNG	T	
C	CMO	L	LPL	U	
D		M		V	
E		N		W	
F		P		X	
G		Q		Y	
H	IPS	R		Z	

With this alternative use, some of key parts may differ and their combinations are indicated with the suffix marking on the location number in the part list (Miscellaneous).

e.g.

Location No.	Part No.	Description
B001A	75007869	LCD Panel, 32" LPL
B001B	75007870	LCD Panel, 32" AUO
MZ01A	75006036	LDVS Cable
MZ01B	75007893	LDVS Cable

PARTS LIST

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:

- 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 :

Location : 

Page : / 1

Parts No. : 

PARTS LIST

Block :

Loading ...

Block	Location	Parts No.	Description
U02A KEY/LED/RMT (PE0491)	* U02A	75010694	PC BOARD ASSY, PE0491A1, KEY/LED/RMT
U02A KEY/LED/RMT (PE0491)	CB02	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)	CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)	CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)	CB05	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)	DB01	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)	DB04	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)	DB22	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)	DB23	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)	GB01	23362042	DIODE, ZENER, UDZ56.8B
U02A KEY/LED/RMT (PE0491)	KB01	75002236	IC, GP1UE261RKVF
U02A KEY/LED/RMT (PE0491)	QB01	23205443	TRANSISTOR, 2SA1162-Y(F)
U02A KEY/LED/RMT (PE0491)	QB02	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)	QB03	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)	RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
U02A KEY/LED/RMT (PE0491)	RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U02A KEY/LED/RMT (PE0491)	RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)	RA74	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)	RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)	RA78	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)	RA79	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)	RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)	RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)	RB10	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)	RB11	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U02A KEY/LED/RMT (PE0491)	RB12	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)	RB13	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)	RB14	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)	RB18	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)	SA01	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA02	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA03	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA04	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA05	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA06	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA07	23344505	SWITCH, PUSH 1C1P
U03AS MAIN (PE0630)	U03AS	75012704	PC BOARD ASSY, PE0630A, MAIN
U03AS MAIN (PE0630)	C1001	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1002	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1003	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1004	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1005	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1006	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1007	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C1008	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1009	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1010	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH
U03AS MAIN (PE0630)	C1011	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C1012	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH

U03AS MAIN (PE0630)	C1013	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1014	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1015	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT
U03AS MAIN (PE0630)	C1016	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT
U03AS MAIN (PE0630)	C1017	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT
U03AS MAIN (PE0630)	C1018	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT
U03AS MAIN (PE0630)	C1019	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT
U03AS MAIN (PE0630)	C1020	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT
U03AS MAIN (PE0630)	C1021	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT
U03AS MAIN (PE0630)	C1022	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1023	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C1024	75009871	CAPACITOR, CERAMIC CHIP (1005), GRM1552C1H100JZ01D
U03AS MAIN (PE0630)	C1025	75009836	JUMPER, CHIP 1005TYPE, CR1/16S 000V PB(F)
U03AS MAIN (PE0630)	C1100	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1101	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1102	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1103	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1104	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1105	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1106	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1107	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT
U03AS MAIN (PE0630)	C1108	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1109	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1110	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1111	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1112	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1113	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1114	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1115	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C1116	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1117	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1118	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1119	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1120	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1121	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1122	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1123	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1124	75009875	CAPACITOR, CERAMIC CHIP (1608), GRM188B31H104KA92D
U03AS MAIN (PE0630)	C1125	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1126	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1127	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C1128	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C1130	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C1131	75009875	CAPACITOR, CERAMIC CHIP (1608), GRM188B31H104KA92D
U03AS MAIN (PE0630)	C1134	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1135	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1136	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1137	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1216	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1301	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C1302	75012554	CAPACITOR CHIP CERA 50V CH 220J 1005 SIZE, C1005CH1H220JT




U03AS MAIN (PE0630)	C2106	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C2107	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2108	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2109	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C2203	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C2204	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C2205	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2206	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2207	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C2208	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C2401	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C2402	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C2403	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2404	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2405	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2406	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2701	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2702	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2704	75006011	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1A101P
U03AS MAIN (PE0630)	C2705	75007607	CAPACITOR, ELECTROLYTIC CHIP, 16SGV470M8X10.5
U03AS MAIN (PE0630)	C2711	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2712	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2715	75007607	CAPACITOR, ELECTROLYTIC CHIP, 16SGV470M8X10.5
U03AS MAIN (PE0630)	C2805	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C2806	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2807	75002272	CAPACITOR, CERAMIC CHIP, 25V CH 220PF J, C1005CH1E221JT
U03AS MAIN (PE0630)	C2808	75007604	CAPACITOR, CERAMIC CHI(1005), CM05W5R152K50AH
U03AS MAIN (PE0630)	C2809	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C2810	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C2900	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C2901	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C2905	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C3000	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3001	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3004	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)	C3005	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)	C3006	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)	C3007	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3008	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3009	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3010	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3011	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3013	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3014	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3015	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3016	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3017	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3018	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3019	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3020	75012555	CAPACITOR CHIP CERA 50V CH 470J 1005 SIZE, C1005CH1H470JT
U03AS MAIN (PE0630)	C3021	75012555	CAPACITOR CHIP CERA 50V CH 470J 1005 SIZE, C1005CH1H470JT

U03AS MAIN (PE0630)	C3022	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3501	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3502	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3503	75009861	CAPACITOR, CERAMIC CHIP (1608), CM105B105K06ATN
U03AS MAIN (PE0630)	C5201	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C5202	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C5203	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C5204	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C5205	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6000	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6001	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6002	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6003	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6004	75007609	CAPACITOR, ELECTROLYTIC CHIP, EEEFK1E470P
U03AS MAIN (PE0630)	C6005	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C6029	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6030	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6060	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6063	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6066	75007609	CAPACITOR, ELECTROLYTIC CHIP, EEEFK1E470P
U03AS MAIN (PE0630)	C6101	75005755	CAPACITOR, CERAMIC CHIP, GRM1552C1H390JZ01D
U03AS MAIN (PE0630)	C6102	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6103	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6104	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6105	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6106	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U03AS MAIN (PE0630)	C6107	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6108	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6109	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6110	75005755	CAPACITOR, CERAMIC CHIP, GRM1552C1H390JZ01D
U03AS MAIN (PE0630)	C6111	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6112	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6113	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6114	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6115	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U03AS MAIN (PE0630)	C6116	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6117	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6118	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6119	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6120	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6121	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6122	75010772	CAPACITOR, CERAMIC CHIP (2012), CM21B106M06AT
U03AS MAIN (PE0630)	C6124	75008346	CAPACITOR, CERAMIC CHIP(1005), GRM155B31A334KE14D
U03AS MAIN (PE0630)	C6125	75008340	CAPACITOR, CERAMIC CHIP(1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C6126	76073057	CAPACITOR, ELECTROLYTIC, 25V 1000UF M
U03AS MAIN (PE0630)	C6127	75010144	CAPACITOR, CERAMIC CHIP (1608), CM105CH470J50AT
U03AS MAIN (PE0630)	C6128	75009868	CAPACITOR, CERAMIC CHIP (1608), CM105X5R225K06AT
U03AS MAIN (PE0630)	C6129	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C6130	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6131	75002273	CAPACITOR, CERAMIC CHIP, 50V R 680PF K, CM05W5R681K50AH
U03AS MAIN (PE0630)	C6132	75010714	CAPACITOR, CERAMIC CHIP (1005), GRM155B11H472KA01D

U03AS MAIN (PE0630)	C6133	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C6134	75009878	CAPACITOR, CERAMIC CHIP (1608), GRM188B11A105KA61D
U03AS MAIN (PE0630)	C6136	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C6137	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6138	75010144	CAPACITOR, CERAMIC CHIP (1608), CM105CH470J50AT
U03AS MAIN (PE0630)	C6139	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6140	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6301	75010499	CAPACITOR, ELECTROLYTIC CHIP, 16V 471M 3D LIFE LOW-Z
U03AS MAIN (PE0630)	C6303	75007612	CAPACITOR, ELECTROLYTIC CHIP, MVJ50VC1MD60E0
U03AS MAIN (PE0630)	C6401	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C6402	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C6403	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C6404	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C6405	75010709	CAPACITOR, CERAMIC CHIP (2012), CM21X5R105K16AT
U03AS MAIN (PE0630)	C6406	75010709	CAPACITOR, CERAMIC CHIP (2012), CM21X5R105K16AT
U03AS MAIN (PE0630)	C6407	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6408	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6409	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6410	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6411	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C6412	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6413	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6415	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C6416	75012085	CAPACITOR, CERAMIC CHIP(1608), CM105CH100D50AT
U03AS MAIN (PE0630)	C7001	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7002	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7003	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7004	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7005	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7007	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7008	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7009	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7010	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7011	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7012	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7013	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C7014	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C7015	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7018	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C7019	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7020	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7021	75008673	CAPACITOR, CERAMIC CHIP(2012), CM21B474K25AT
U03AS MAIN (PE0630)	C7022	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7024	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7027	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7028	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C7081	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8000	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8001	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8002	75010711	CAPACITOR, CERAMIC CHIP (1005), CM05W5R223K16AH
U03AS MAIN (PE0630)	C8003	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH

U03AS MAIN (PE0630)	C8004	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8005	75010711	CAPACITOR, CERAMIC CHIP (1005), CM05W5R223K16AH
U03AS MAIN (PE0630)	C8006	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8008	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8009	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8010	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8011	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8013	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8014	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8015	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C8016	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C8017	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8018	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8019	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8020	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8023	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8024	75010501	CAPACITOR, CERAMIC CHIP (1005), UMK105CH080DW-F
U03AS MAIN (PE0630)	C8025	75010501	CAPACITOR, CERAMIC CHIP (1005), UMK105CH080DW-F
U03AS MAIN (PE0630)	C8026	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8027	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8028	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8501	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8502	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C8506	75009879	CAPACITOR, CERAMIC CHIP (1005), GRM1552C1H330JZ01D
U03AS MAIN (PE0630)	C8507	75009879	CAPACITOR, CERAMIC CHIP (1005), GRM1552C1H330JZ01D
U03AS MAIN (PE0630)	C8508	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C8510	75006003	CAPACITOR, EMVE100ADA471MHA0G
U03AS MAIN (PE0630)	C8512	75007608	CAPACITOR, ELECTROLYTIC CHIP, MVJ50VC10MF60E0
U03AS MAIN (PE0630)	C8514	75012560	CAPACITOR CHIP CERA 10V JB 104K 1005 SIZE, C1005JB1A104KT
U03AS MAIN (PE0630)	C8515	75012560	CAPACITOR CHIP CERA 10V JB 104K 1005 SIZE, C1005JB1A104KT
U03AS MAIN (PE0630)	C8517	75009863	CAPACITOR, CERAMIC CHIP (1005), CM05W5R103K16AH
U03AS MAIN (PE0630)	C8518	75009863	CAPACITOR, CERAMIC CHIP (1005), CM05W5R103K16AH
U03AS MAIN (PE0630)	C8520	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C8521	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C9003	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)	C9004	75009859	CAPACITOR, CERAMIC CHIP (1608), CM105CH102J50AT
U03AS MAIN (PE0630)	C9005	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)	C9202	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9205	75009868	CAPACITOR, CERAMIC CHIP (1608), CM105X5R225K06AT
U03AS MAIN (PE0630)	C9207	75009239	CAPACITOR, CERAMIC CHIP(1608), CM105W5R222K50AT
U03AS MAIN (PE0630)	C9208	75009239	CAPACITOR, CERAMIC CHIP(1608), CM105W5R222K50AT
U03AS MAIN (PE0630)	C9211	75009239	CAPACITOR, CERAMIC CHIP(1608), CM105W5R222K50AT
U03AS MAIN (PE0630)	C9216	75009239	CAPACITOR, CERAMIC CHIP(1608), CM105W5R222K50AT
U03AS MAIN (PE0630)	C9224	75009239	CAPACITOR, CERAMIC CHIP(1608), CM105W5R222K50AT
U03AS MAIN (PE0630)	C9501	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9503	75009878	CAPACITOR, CERAMIC CHIP (1608), GRM188B11A105KA61D
U03AS MAIN (PE0630)	C9504	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9506	75009878	CAPACITOR, CERAMIC CHIP (1608), GRM188B11A105KA61D
U03AS MAIN (PE0630)	C9507	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9508	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9511	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH

U03AS MAIN (PE0630)	C9513	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9514	75006005	CAPACITOR, CERAMIC CHIP (1005), CM05X7R682K25AH
U03AS MAIN (PE0630)	C9515	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C9516	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C9517	75012557	CAPACITOR CHIP CERA 50V JB 102K 1005 SIZE, C1005JB1H102KT
U03AS MAIN (PE0630)	C9518	75009874	CAPACITOR, CERAMIC CHIP (2012), GRM21BB30J226ME38L
U03AS MAIN (PE0630)	C9519	75009874	CAPACITOR, CERAMIC CHIP (2012), GRM21BB30J226ME38L
U03AS MAIN (PE0630)	C9534	75011120	CAPACITOR, CERAMIC CHIP (1005), CM05W5R272K50AH
U03AS MAIN (PE0630)	C9535	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C9538	75006005	CAPACITOR, CERAMIC CHIP (1005), CM05X7R682K25AH
U03AS MAIN (PE0630)	C9539	75009874	CAPACITOR, CERAMIC CHIP (2012), GRM21BB30J226ME38L
U03AS MAIN (PE0630)	C9540	75009874	CAPACITOR, CERAMIC CHIP (2012), GRM21BB30J226ME38L
U03AS MAIN (PE0630)	C9541	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C9542	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C9543	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9544	75012557	CAPACITOR CHIP CERA 50V JB 102K 1005 SIZE, C1005JB1H102KT
U03AS MAIN (PE0630)	C9545	75009928	CAPACITOR, CERAMIC CHIP (1608), CM105B474K10AT
U03AS MAIN (PE0630)	C9546	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9547	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9548	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9549	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9550	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9551	75010503	CAPACITOR, CERAMIC CHIP (1005), GRM1552C1H471JA01D
U03AS MAIN (PE0630)	C9552	75008346	CAPACITOR, CERAMIC CHIP(1005), GRM155B31A334KE14D
U03AS MAIN (PE0630)	C9553	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9554	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9555	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9556	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9557	75010503	CAPACITOR, CERAMIC CHIP (1005), GRM1552C1H471JA01D
U03AS MAIN (PE0630)	C9558	75008346	CAPACITOR, CERAMIC CHIP(1005), GRM155B31A334KE14D
U03AS MAIN (PE0630)	C9559	75009876	CAPACITOR, CERAMIC CHIP (1608), GRM188B31C105KA92D
U03AS MAIN (PE0630)	C9560	75009239	CAPACITOR, CERAMIC CHIP(1608), CM105W5R222K50AT
U03AS MAIN (PE0630)	C9561	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9562	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9563	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9564	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9565	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9566	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH
U03AS MAIN (PE0630)	C9601	75009882	CAPACITOR, CERAMIC CHIP (3216), C3216JB1C106KT
U03AS MAIN (PE0630)	C9602	75009882	CAPACITOR, CERAMIC CHIP (3216), C3216JB1C106KT
U03AS MAIN (PE0630)	C9603	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C9604	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9605	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9606	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9607	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT
U03AS MAIN (PE0630)	C9609	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9611	75009873	CAPACITOR, CERAMIC CHIP (1608), GRM188B31A225KE18D
U03AS MAIN (PE0630)	C9612	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C9613	75009929	CAPACITOR, CERAMIC CHIP (2012), C2012JF1H105ZT
U03AS MAIN (PE0630)	C9614	75009929	CAPACITOR, CERAMIC CHIP (2012), C2012JF1H105ZT
U03AS MAIN (PE0630)	C9618	75010714	CAPACITOR, CERAMIC CHIP (1005), GRM155B11H472KA01D

U03AS MAIN (PE0630)		C9620	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)		C9621	75009876	CAPACITOR, CERAMIC CHIP (1608), GRM188B31C105KA92D
U03AS MAIN (PE0630)		C9622	75009876	CAPACITOR, CERAMIC CHIP (1608), GRM188B31C105KA92D
U03AS MAIN (PE0630)		C9649	75009875	CAPACITOR, CERAMIC CHIP (1608), GRM188B31H104KA92D
U03AS MAIN (PE0630)		C9650	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)		C9651	75009863	CAPACITOR, CERAMIC CHIP (1005), CM05W5R103K16AH
U03AS MAIN (PE0630)		D1100	75010721	DIODE, ZENER, 02CZ6.2-Y(TE85R, F)
U03AS MAIN (PE0630)		D1101	75010721	DIODE, ZENER, 02CZ6.2-Y(TE85R, F)
U03AS MAIN (PE0630)		D1301	75010608	DIODE, 1SS388(TPH3, F)
U03AS MAIN (PE0630)		D1302	75010608	DIODE, 1SS388(TPH3, F)
U03AS MAIN (PE0630)		D1303	75010153	DIODE, ZENER, UDZSTE-176.2B
U03AS MAIN (PE0630)		D1304	75010153	DIODE, ZENER, UDZSTE-176.2B
U03AS MAIN (PE0630)		D1701	75010721	DIODE, ZENER, 02CZ6.2-Y(TE85R, F)
U03AS MAIN (PE0630)		D2105	75009899	DIODE, MA112-(TX)
				
				
				

PARTS LIST

Block : U02A KEY/LED/RMT (PE0491) ▾

Block	Location	Parts No.	Description
U02A KEY/LED/RMT (PE0491)	*U02A	75010694	PC BOARD ASSY, PE0491A1, KEY/LED/RMT
U02A KEY/LED/RMT (PE0491)	CB02	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)	CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)	CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)	CB05	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)	DB01	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)	DB04	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)	DB22	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)	DB23	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)	GB01	23362042	DIODE, ZENER, UDZS6.8B
U02A KEY/LED/RMT (PE0491)	KB01	75002236	IC, GP1UE261RKVF
U02A KEY/LED/RMT (PE0491)	QB01	23205443	TRANSISTOR, 2SA1162-Y(F)
U02A KEY/LED/RMT (PE0491)	QB02	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)	QB03	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)	RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
U02A KEY/LED/RMT (PE0491)	RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U02A KEY/LED/RMT (PE0491)	RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)	RA74	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)	RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)	RA78	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)	RA79	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)	RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)	RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)	RB10	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)	RB11	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U02A KEY/LED/RMT (PE0491)	RB12	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)	RB13	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)	RB14	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)	RB18	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)	SA01	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA02	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA03	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA04	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA05	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA06	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)	SA07	23344505	SWITCH, PUSH 1C1P

PARTS LIST

Block :

Loading ...

Block	Location	Parts No.	Description	AA	S	M	L	↑	↓
U03AS MAIN (PE0630)	U03AS	75012704	PC BOARD ASSY, PE0630A, MAIN						
U03AS MAIN (PE0630)	C1001	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1002	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1003	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1004	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1005	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1006	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1007	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH						
U03AS MAIN (PE0630)	C1008	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1009	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1010	75008342	CAPACITOR, CERAMIC CHIP(1005), CM05B473K10AH						
U03AS MAIN (PE0630)	C1011	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH						
U03AS MAIN (PE0630)	C1012	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH						
U03AS MAIN (PE0630)	C1013	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH						
U03AS MAIN (PE0630)	C1014	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH						
U03AS MAIN (PE0630)	C1015	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT						
U03AS MAIN (PE0630)	C1016	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT						
U03AS MAIN (PE0630)	C1017	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT						
U03AS MAIN (PE0630)	C1018	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT						
U03AS MAIN (PE0630)	C1019	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT						
U03AS MAIN (PE0630)	C1020	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT						
U03AS MAIN (PE0630)	C1021	75012559	CAPACITOR CHIP CERA 10V JB 473K 1005 SIZE, C1005JB1A473KT						
U03AS MAIN (PE0630)	C1022	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH						
U03AS MAIN (PE0630)	C1023	75009881	CAPACITOR, CERAMIC CHIP (2012), C2012JB1A106KT						
U03AS MAIN (PE0630)	C1024	75009871	CAPACITOR, CERAMIC CHIP (1005), GRM1552C1H100JZ01D						
U03AS MAIN (PE0630)	C1025	75009836	JUMPER, CHIP 1005TYPE, CR1/16S 000V PB(F)						
U03AS MAIN (PE0630)	C1100	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1101	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1102	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1103	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1104	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1105	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1106	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1107	75012556	CAPACITOR CHIP CERA 50V JB 331K 1005 SIZE, C1005JB1H331KT						
U03AS MAIN (PE0630)	C1108	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1109	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1110	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1111	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1112	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1113	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1114	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1115	75009932	CAPACITOR, CARAMIC CHIP (1005), CM05W5R561K50AH						
U03AS MAIN (PE0630)	C1116	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D						
U03AS MAIN (PE0630)	C1117	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D						
U03AS MAIN (PE0630)	C1118	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D						
U03AS MAIN (PE0630)	C1119	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D						
U03AS MAIN (PE0630)	C1120	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D						
U03AS MAIN (PE0630)	C1121	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D						
U03AS MAIN (PE0630)	C1122	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D						

U03AS MAIN (PE0630)	C1123	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C1124	75009875	CAPACITOR, CERAMIC CHIP (1608), GRM188B31H104KA92D
U03AS MAIN (PE0630)	C1125	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1126	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1127	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C1128	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C1130	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C1131	75009875	CAPACITOR, CERAMIC CHIP (1608), GRM188B31H104KA92D
U03AS MAIN (PE0630)	C1134	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1135	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1136	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1137	75012562	CHIP CERAMIC CAPACITOR (1005), EMK105BJ153KV-F
U03AS MAIN (PE0630)	C1216	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1301	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C1302	75012554	CAPACITOR CHIP CERA 50V CH 220J 1005 SIZE, C1005CH1H220JT
U03AS MAIN (PE0630)	C1303	75012453	CAPACITOR, CERAMIC CHIP, 50V CH 150J, C1005CH1H150JT
U03AS MAIN (PE0630)	C1310	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C1401	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1402	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1403	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1404	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1405	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1406	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1407	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1408	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1409	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1410	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1411	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1412	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1413	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1414	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1415	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1416	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1417	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1418	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1419	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1420	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1421	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1422	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1423	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1424	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1425	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1426	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1502	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1504	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1505	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1509	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1510	75012561	CAPACITOR CHIP CERA 16V JB 104K 1005 SIZE, C1005JB1C104KT
U03AS MAIN (PE0630)	C1511	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1518	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1601	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH

U03AS MAIN (PE0630)	C1602	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1603	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1604	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1605	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1606	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1607	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1608	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1609	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1610	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1701	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1702	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C1703	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C2000	75009875	CAPACITOR, CERAMIC CHIP (1608), GRM188B31H104KA92D
U03AS MAIN (PE0630)	C2001	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C2105	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C2106	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C2107	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2108	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2109	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C2203	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C2204	75005814	CAPACITOR, CERAMIC CHIP, 2012 GRM21BB31C106KE15L
U03AS MAIN (PE0630)	C2205	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2206	75007611	CAPACITOR, CERAMIC CHIP(1005), GRM155B11H152KA01D
U03AS MAIN (PE0630)	C2207	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C2208	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C2401	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C2402	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C2403	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2404	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2405	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2406	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C2701	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2702	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2704	75006011	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1A101P
U03AS MAIN (PE0630)	C2705	75007607	CAPACITOR, ELECTROLYTIC CHIP, 16SGV470M8X10.5
U03AS MAIN (PE0630)	C2711	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2712	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2715	75007607	CAPACITOR, ELECTROLYTIC CHIP, 16SGV470M8X10.5
U03AS MAIN (PE0630)	C2805	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C2806	75009869	CAPACITOR, CERAMIC CHIP (1005), CM05X5R105K06AH
U03AS MAIN (PE0630)	C2807	75002272	CAPACITOR, CERAMIC CHIP, 25V CH 220PF J, C1005CH1E221JT
U03AS MAIN (PE0630)	C2808	75007604	CAPACITOR, CERAMIC CHI(1005), CM05W5R152K50AH
U03AS MAIN (PE0630)	C2809	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C2810	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C2900	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C2901	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C2905	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C3000	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3001	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3004	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)	C3005	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT

U03AS MAIN (PE0630)	C3006	75009856	CAPACITOR, CERAMIC CHIP (1608), CM105W5R104K16AT
U03AS MAIN (PE0630)	C3007	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3008	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3009	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3010	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3011	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3013	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3014	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3015	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3016	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3017	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3018	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3019	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C3020	75012555	CAPACITOR CHIP CERA 50V CH 470J 1005 SIZE, C1005CH1H470JT
U03AS MAIN (PE0630)	C3021	75012555	CAPACITOR CHIP CERA 50V CH 470J 1005 SIZE, C1005CH1H470JT
U03AS MAIN (PE0630)	C3022	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3501	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3502	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C3503	75009861	CAPACITOR, CERAMIC CHIP (1608), CM105B105K06ATN
U03AS MAIN (PE0630)	C5201	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C5202	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C5203	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C5204	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C5205	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6000	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6001	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6002	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6003	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6004	75007609	CAPACITOR, ELECTROLYTIC CHIP, EEEFK1E470P
U03AS MAIN (PE0630)	C6005	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C6029	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6030	75009862	CAPACITOR, CERAMIC CHIP (3216), GRM31CB11A475KA01L
U03AS MAIN (PE0630)	C6060	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6063	75007603	CAPACITOR, CERAMIC CHIP(1005), CM05CH101J50AH
U03AS MAIN (PE0630)	C6066	75007609	CAPACITOR, ELECTROLYTIC CHIP, EEEFK1E470P
U03AS MAIN (PE0630)	C6101	75005755	CAPACITOR, CERAMIC CHIP, GRM1552C1H390JZ01D
U03AS MAIN (PE0630)	C6102	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6103	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6104	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6105	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6106	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U03AS MAIN (PE0630)	C6107	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6108	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
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U03AS MAIN (PE0630)	C6110	75005755	CAPACITOR, CERAMIC CHIP, GRM1552C1H390JZ01D
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U03AS MAIN (PE0630)	C6113	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6114	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6115	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U03AS MAIN (PE0630)	C6116	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT

U03AS MAIN (PE0630)	C6117	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6118	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6119	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6120	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6121	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6122	75010772	CAPACITOR, CERAMIC CHIP (2012), CM21B106M06AT
U03AS MAIN (PE0630)	C6124	75008346	CAPACITOR, CERAMIC CHIP(1005), GRM155B31A334KE14D
U03AS MAIN (PE0630)	C6125	75008340	CAPACITOR, CERAMIC CHIP(1005), CM05W5R102K50AH
U03AS MAIN (PE0630)	C6126	76073057	CAPACITOR, ELECTROLYTIC, 25V 1000UF M
U03AS MAIN (PE0630)	C6127	75010144	CAPACITOR, CERAMIC CHIP (1608), CM105CH470J50AT
U03AS MAIN (PE0630)	C6128	75009868	CAPACITOR, CERAMIC CHIP (1608), CM105X5R225K06AT
U03AS MAIN (PE0630)	C6129	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C6130	75009927	CAPACITOR, CERAMIC CHIP (1608), CM105B104K25AT
U03AS MAIN (PE0630)	C6131	75002273	CAPACITOR, CERAMIC CHIP, 50V R 680PF K, CM05W5R681K50AH
U03AS MAIN (PE0630)	C6132	75010714	CAPACITOR, CERAMIC CHIP (1005), GRM155B11H472KA01D
U03AS MAIN (PE0630)	C6133	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C6134	75009878	CAPACITOR, CERAMIC CHIP (1608), GRM188B11A105KA61D
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U03AS MAIN (PE0630)	C6138	75010144	CAPACITOR, CERAMIC CHIP (1608), CM105CH470J50AT
U03AS MAIN (PE0630)	C6139	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6140	75006010	CAPACITOR, CERAMIC CHIP (1608), GRM188B31E105KA75D
U03AS MAIN (PE0630)	C6301	75010499	CAPACITOR, ELECTROLYTIC CHIP, 16V 471M 3D LIFE LOW-Z
U03AS MAIN (PE0630)	C6303	75007612	CAPACITOR, ELECTROLYTIC CHIP, MVJ50VC1MD60E0
U03AS MAIN (PE0630)	C6401	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C6402	75006008	CAPACITOR, CERAMIC CHIP (2012), GRM21BB31C475KA87L
U03AS MAIN (PE0630)	C6403	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C6404	75007605	CAPACITOR, CERAMIC CHIP(1005), CM05W5R222K50AH
U03AS MAIN (PE0630)	C6405	75010709	CAPACITOR, CERAMIC CHIP (2012), CM21X5R105K16AT
U03AS MAIN (PE0630)	C6406	75010709	CAPACITOR, CERAMIC CHIP (2012), CM21X5R105K16AT
U03AS MAIN (PE0630)	C6407	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6408	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6409	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6410	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6411	75009872	CAPACITOR, ELECTROLYTIC CHIP, EEEHB1C100R
U03AS MAIN (PE0630)	C6412	75009853	CAPACITOR, CERAMIC CHIP (1608), CM105W5R103K50AT
U03AS MAIN (PE0630)	C6413	75010771	CAPACITOR, ELECTROLYTIC CHIP, MVJ16VC47MF60E0
U03AS MAIN (PE0630)	C6415	75005754	CAPACITOR, CERAMIC CHIP, GRM188B31A225KE33D
U03AS MAIN (PE0630)	C6416	75012085	CAPACITOR, CERAMIC CHIP(1608), CM105CH100D50AT
U03AS MAIN (PE0630)	C7001	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7002	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7003	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7004	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7005	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7007	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7008	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7009	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7010	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7011	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7012	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7013	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH


U03AS MAIN (PE0630)	C7014	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C7015	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7018	75009877	CAPACITOR, CERAMIC CHIP (1005), GRM155B11E103KA01D
U03AS MAIN (PE0630)	C7019	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7020	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7021	75008673	CAPACITOR, CERAMIC CHIP(2012), CM21B474K25AT
U03AS MAIN (PE0630)	C7022	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7024	75009864	CAPACITOR, CERAMIC CHIP (1005), CM05Y5V104Z16AH
U03AS MAIN (PE0630)	C7027	75009925	CAPACITOR, CERAMIC CHIP (1608), CM105Y5V105Z10AT
U03AS MAIN (PE0630)	C7028	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C7081	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8000	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8001	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8002	75010711	CAPACITOR, CERAMIC CHIP (1005), CM05W5R223K16AH
U03AS MAIN (PE0630)	C8003	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8004	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U03AS MAIN (PE0630)	C8005	75010711	CAPACITOR, CERAMIC CHIP (1005), CM05W5R223K16AH

PARTS LIST

Block :


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Parts No. :






Block	Location	Parts No.	Description	AA	S	M	L	↕	↓
Miscellaneous	 B001A	75012574	DISPLAY G8SHP32, LK315T3LA31						
Miscellaneous	H001	75010735	TUNER, ENG37E05KF						
Miscellaneous	MZ01A	75012575	WIRE, MF0319						
Miscellaneous	 P801	23372353	POWER CORD, UK 250V3A FL/FUSE13						
Miscellaneous	 P801	23372368	POWER CORD, CEE FL M5206 250V2 206 - 2.3M HOUSING						
Miscellaneous	PP08	23974994	BAND, KESSOKU						
Miscellaneous	U800	75012573	POWER UNIT, SRV2169WW						
Miscellaneous	W661	75011535	SPEAKER, SPK1503AO, 35X120 8-OHM 10W						
Miscellaneous	Z004	23974994	BAND, KESSOKU						

PARTS LIST

Block :


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Parts No. : Search     




Block	Location	Parts No.	Description	AA	S	M	L		
Accessory	 Y101	75012576	MANUAL ENGLISH						
Accessory	 Y101E	75012578	MANUAL, MANUAL EURO						
Accessory	 Y102E	75012579	MANUAL, MANUAL NORDIC						
Accessory	Y105	75010347	OWNERS MANUAL, STD EU						
Accessory	Y110	75012577	MANUAL QSUG						
Accessory	Y114	75012580	MANUAL, MANUAL ITA SCHEMA						
Accessory	Y115	75009771	OWNERS MANUAL, XF DIGITAL UK RETUNE GUIDE						
Accessory	Y130	75010737	REMOCON HAND UNIT, CT-90300						
Accessory	Y131	75012514	POWER UNIT BATTERY, R03UG(JE)SP-2TGC-T						
Accessory	Y170	23845800	HOLDER, WIRE, NYLON66 D6.8						
Accessory	Y186	75009788	CLOTH, CLEAN, XF350P						

PARTS LIST

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Parts No. : Search 



Block	Location	Parts No.	Description	AA	S	M	L		
Cabinet	A201	75010344	FRONT BEZEL ASSY						
Cabinet	A205	75011368	LABEL, TRIM INDICATOR						
Cabinet	 A401	75010346	BACK COVER ASSY						
Cabinet	A412	75010345	SCREW, BITTB3X8 SBN						
Cabinet	A420	75010348	BRACKET ASSY, STAND						
Cabinet	A421	75010747	BASE COVER AND TOOL SET, STAND						
Cabinet	A430	75005733	PIECE CLAMP HOLDER						

PARTS LIST

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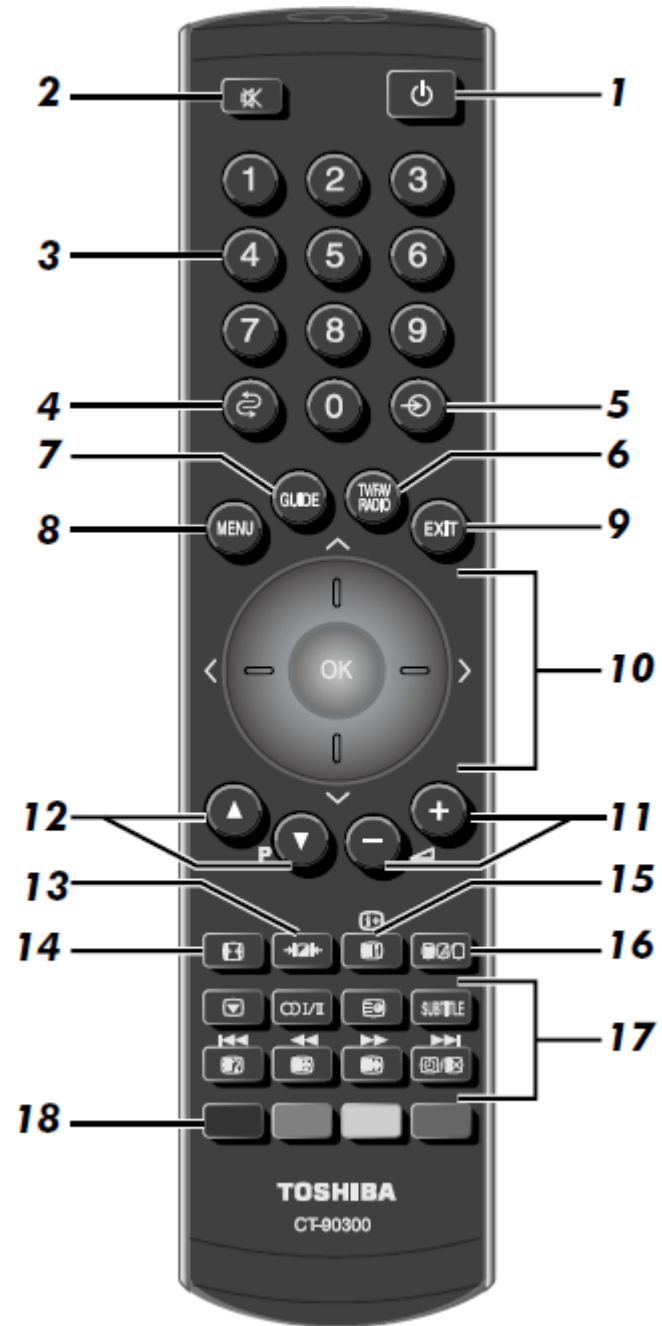
Parts No. : Search 





Block	Location	Parts No.	Description	A	S	M	L		
Packing	A701	75010351	CARTON BOX, (TPO)						
Packing	A702A	75010353	PAD, TOP PACKING						
Packing	A702B	75010354	PAD, BOTTOM PACKING						

FUNCTION AND OPERATION





The Remote Control

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



- 1 For On/Standby mode
- 2 To mute the sound
- 3 Number buttons
- 4 To return to the previous programme
- 5 To select input from external sources, **analogue** or **digital** TV
- 6 To display TV, Radio and Favourite programme list when in **digital** mode
- 7 To display the **digital** on-screen Programme Guide
- 8 On-screen Menus
- 9 To exit Menus
- 10 When using menus press ^ (up), v (down), < (left) and > (right) to move the cursor on the screen.  to confirm your selection
- 11 To alter the volume
- 12 To change programme positions and text pages
- 13 Selectable picture preferences
- 14 Widescreen viewing
- 15 To display on-screen information
- 16 To call up text services in **analogue** mode and interactive services in **digital** mode
- 17 **When in TV mode:**
 -  Still picture
 -  Stereo/bilingual transmissions
 - SUBTITLE Digital Subtitles
 -  Time display

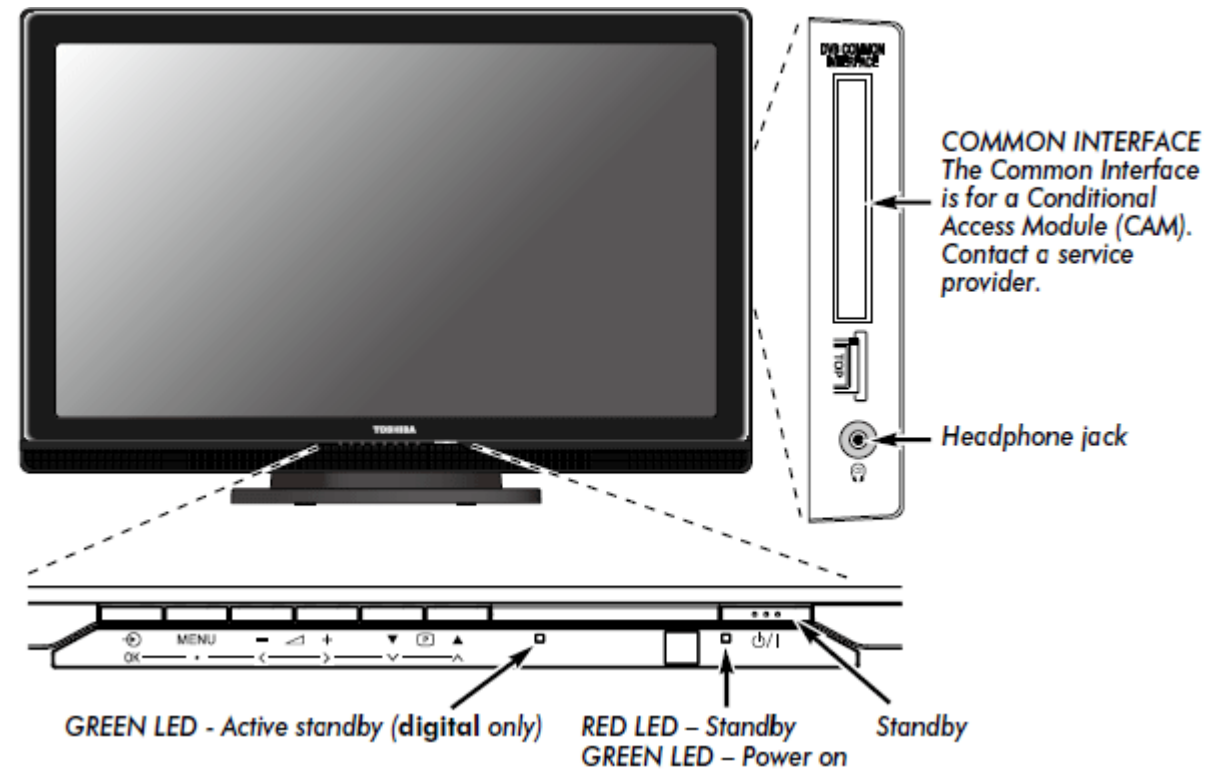
When using the Programme Guide:

 -  - 24 hours
 -  + 24 hours
 -  - 1 page
 -  + 1 page
- 18 Text and interactive service control buttons


FUNCTION AND OPERATION



Using the Controls

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




Switching On

If the RED LED is unlit 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. The GREEN LED will be lit.


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

Using the Remote Control

Press  on the remote control to see the menus.




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

NOTE: The same menu is displayed in DTV (Digital TV) and ATV (Analogue TV) modes; however some items are greyed out in each case.

To use the options, press ^ and v on the remote control to move up and down through them and , < or > to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.


Using the Controls

To alter the volume press -  +.

To alter the programme position press   .

Press **MENU** and <, >, ^ or v to control the sound and picture options.

Press **MENU** to finish.

To select an external input, press  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.


FUNCTION AND OPERATION

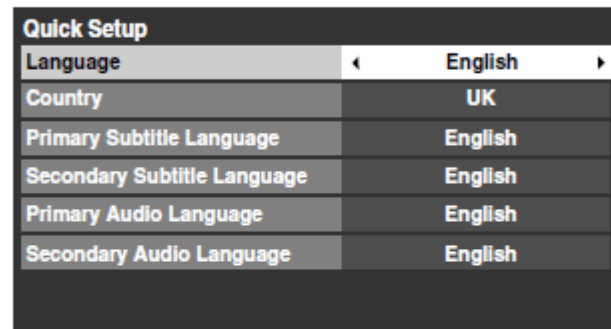
Startup Application

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











To set up the television use the buttons on the remote control as detailed.

Quick Setup

- 1 Press the  button. The **Quick Setup** screen will appear. This screen will appear the first time that the television is switched on and each time "**Reset TV**" is executed.



Quick Setup	
Language	English
Country	UK
Primary Subtitle Language	English
Secondary Subtitle Language	English
Primary Audio Language	English
Secondary Audio Language	English

- 2 Press  to highlight **Language** and  or  to select the menu language.
- 3 Press  to highlight **Country** and  or  to select. The television will now tune the stations for your country.
- 4 Press . Use  or  to select **ATV and DTV**, **ATV** or **DTV**. To execute **Auto Tuning** press  again.

The television will start to search for available ATV and/or DTV channels. The progress bar will indicate the scan status.

You must allow the television to complete the search.

Auto Tuning		
	Progress	Found
ATV tune	6%	0
DTV tune	0%	0
Channel: S41 Station:		

When the search is complete the television will automatically select programme one.

The **Auto Tuning** results screen will display the services that are found.

Auto Tuning			
ATV		DTV	
Prog.	Name		Ch
0	VCR		60
1			2
2			10
3			7
4			40
5			22

- 5** Press < or > to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.

Auto Tuning			
ATV		DTV	
Prog.	Name	Type	Ch
1	BBC ONE		25
2	BBC TWO		25
7	BBC THREE		25
30	CBBC Channel		25
40	BBC NEWS 24		25
51	BBCI		25

- 6** Use \downarrow or \uparrow to move through the list to select a programme then press OK to view.

NOTE: The time will be set automatically by transmission but can be advanced or decreased by up to 3 hours using **Local Time Setting** in the **DTV Settings** menu.

PLEASE NOTE

The **Quick Setup** menu can also be displayed at any time from the **SETUP** menu.

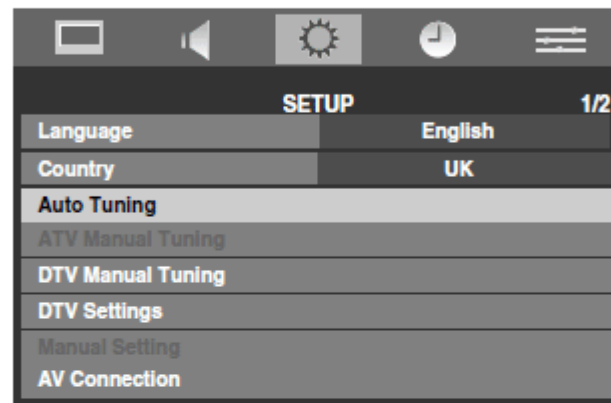
Auto Tuning

NOTE: As new services are broadcast it will be necessary to re-tune the television in order to view them.

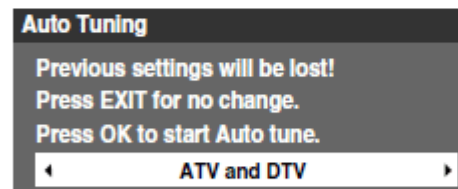
Auto Tuning will completely re-tune the television and can be used to up date the channel list.

It is recommended that Auto Tuning is run periodically to ensure that all new services are added. All current programmes and settings, i.e. favourites and locked programmes, will be lost.

- 1 Press **MENU** and use < or > to select **SETUP** menu. Use **↓** to highlight **Auto Tuning**. Press **OK**.



- 2 A screen will appear warning that previous programmes and settings will be deleted.



Use < or > to select **ATV and DTV**, **ATV** or **DTV**, then press **OK** to continue with the **Auto Tuning**.

The television will start to search for all available **ATV** and/or **DTV** stations.

You must allow the television to complete the search.

When the search is complete the **Auto Tuning** screen will display the services found.

- 3 Use **↓** or **↑** to move through the list to select a programme then press **OK** to view.

Auto Programme Update

If the **Auto Programme Update** is set to **On**, when the TV is in standby mode, the Digital Tuning is automatically executed and new programmes are memorized.

- 1** Press **MENU**, and select **SETUP** menu.
- 2** Use **↓** to highlight **DTV Settings** and press **OK**.
- 3** Press **↓** to select **Auto Programme Update** and use **<** or **>** to select **On**.

Analogue switch-off

This is a **digital** television which is integrated to allow the use of both **digital** and **analogue** services. However, during the lifetime of this set it is very likely that **analogue** services will be switched off to allow for more new **digital** services.

This 'switch-off' will happen in a number of phases, which will be advertised in your area well in advance. It is recommended that at each phase the television is re-tuned to ensure that existing and new **digital** services can be viewed without disruption.

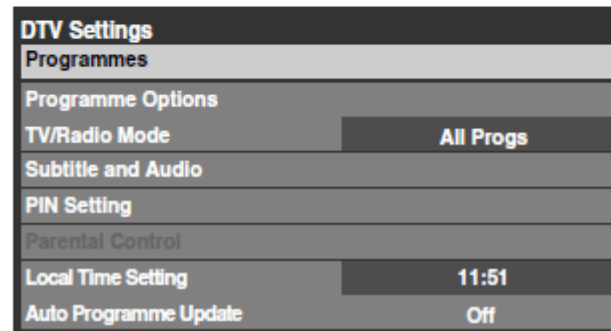
FUNCTION AND OPERATION

DTV Settings

Programmes

The station order may be changed to suit your personal preference.

- 1 Press **MEMU**, and select **SETUP** menu.
- 2 Use **∨** to highlight **DTV Settings** and press **OK**.
- 3 Select **Programmes** from the **DTV Settings** menu and press **OK**.











- 4 With the list of stations now showing use **∨** or **∧** to highlight the station you want to move and press **OK**.



- 5 Use **∨** or **∧** to move through the list to your preferred position. As you do so the other stations will move to make room.

- 6** Press **OK** to store your move. Repeat as necessary, then press **EXIT**.

The Skip setting for the highlighted programme can be switched between "Set/Not Set" by pressing the **RED** button on the remote control. This feature allows you to set channels that will be skipped when **P▼** or **P▲**. However, these channels will still be available by direct number entry (when tuned a  icon will be displayed in the banner to indicate as a skipped channel).

Programmes			
Prog.	Name		Type
1	BBC ONE		<input type="checkbox"/>
7	BBC THREE		<input type="checkbox"/>
30	CBBC Channel		<input type="checkbox"/>
2	BBC TWO		<input checked="" type="checkbox"/>
40	BBC NEWS 24		<input type="checkbox"/>
51	BBCI		<input type="checkbox"/>

DTV Manual Tuning

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

- 1** Select **DTV Manual Tuning** from the **SETUP** menu and press **OK**.
- 2** Enter the multiplex number using the number buttons or use **<** or **>** to adjust the number up or down and then press **OK**. The television will automatically search for that multiplex.

The screenshot shows the 'DTV Manual Tuning' interface. At the top, it displays 'UHF Crystal Palace' and a multiplex number '25' with left and right arrow buttons. Below this is a 'Signal Strength' indicator with a scale from 'WEAK' to 'STRONG' and a 'Quality' indicator with a scale from 'Good' to 'Poor'. A message states '0 new programmes - total 13'. A table lists the new programmes found:

New Prog.	Name	Type
1	BBC ONE	<input type="checkbox"/>
2	BBC TWO	<input type="checkbox"/>
7	BBC THREE	<input type="checkbox"/>
30	CBBC Channel	<input type="checkbox"/>
40	BBC NEWS 24	<input type="checkbox"/>

When the multiplex is found any channels that are not currently on the programme list will be added and the programme information at the top of the screen will be updated.

- 3** Repeat as necessary. Press **EXIT** to finish.

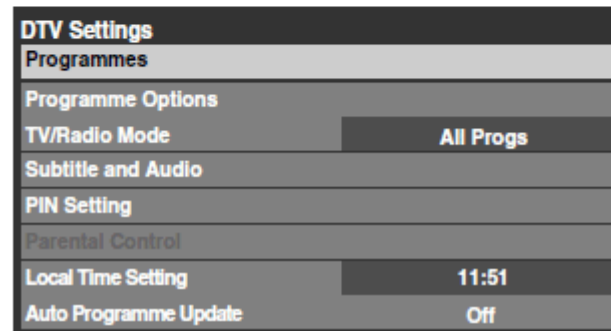
FUNCTION AND OPERATION

DTV Settings

Programmes

The station order may be changed to suit your personal preference.

- 1 Press **MEMU**, and select **SETUP** menu.
- 2 Use **∨** to highlight **DTV Settings** and press **OK**.
- 3 Select **Programmes** from the **DTV Settings** menu and press **OK**.







- 4 With the list of stations now showing use **∨** or **∧** to highlight the station you want to move and press **OK**.



- 5 Use **∨** or **∧** to move through the list to your preferred position. As you do so the other stations will move to make room.

- 6** Press **OK** to store your move. Repeat as necessary, then press **EXIT**.

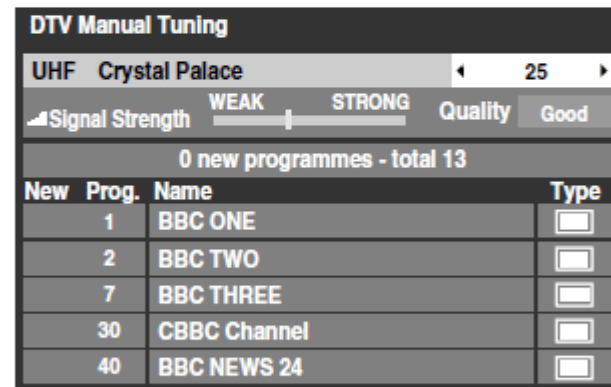
The Skip setting for the highlighted programme can be switched between "Set/Not Set" by pressing the **RED** button on the remote control. This feature allows you to set channels that will be skipped when **P▼** or **P▲**. However, these channels will still be available by direct number entry (when tuned a  icon will be displayed in the banner to indicate as a skipped channel).

Programmes			
Prog.	Name		Type
1	BBC ONE		<input type="checkbox"/>
7	BBC THREE		<input type="checkbox"/>
30	CBBC Channel		<input type="checkbox"/>
2	BBC TWO		<input checked="" type="checkbox"/>
40	BBC NEWS 24		<input type="checkbox"/>
51	BBCI		<input type="checkbox"/>

DTV Manual Tuning

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

- 1** Select **DTV Manual Tuning** from the **SETUP** menu and press **OK**.
- 2** Enter the multiplex number using the number buttons or use **<** or **>** to adjust the number up or down and then press **OK**. The television will automatically search for that multiplex.



The screenshot shows the 'DTV Manual Tuning' interface. At the top, it displays 'UHF Crystal Palace' and a multiplex number '25' with left and right arrow buttons. Below this is a signal strength indicator with 'WEAK' and 'STRONG' labels, and a 'Quality Good' indicator. A summary line reads '0 new programmes - total 13'. A table lists the new programmes found:

New Prog.	Name	Type
1	BBC ONE	<input type="checkbox"/>
2	BBC TWO	<input type="checkbox"/>
7	BBC THREE	<input type="checkbox"/>
30	CBBC Channel	<input type="checkbox"/>
40	BBC NEWS 24	<input type="checkbox"/>

When the multiplex is found any channels that are not currently on the programme list will be added and the programme information at the top of the screen will be updated.

- 3** Repeat as necessary. Press **EXIT** to finish.

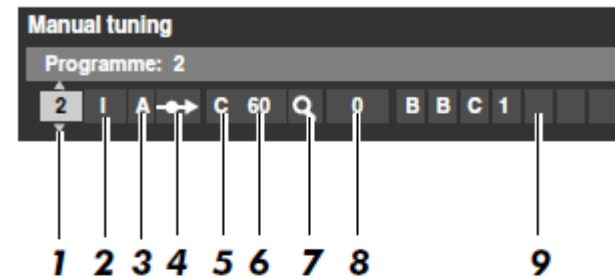
FUNCTION AND OPERATION

ATV Manual Tuning

Tuning

The television can be tuned-in manually using **ATV Manual Tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

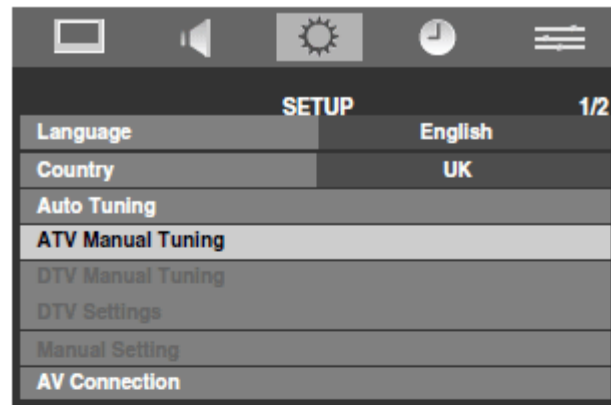
Use < and > to move across the screen and select any of the ATV Manual Tuning options. Then use ^ or v to adjust the settings.



- 1 Programme:**
The number to be pressed on the remote control to tune the programme.
- 2 System:**
Specific to certain areas.
- 3 Colour System:**
Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.
- 4 Skip:**
-•→ means skip OFF.
-◐→ means nothing has been stored or the facility to skip the channel is ON.
- 5 Signal Class:**
The channel classification.
- 6 Channel:**
The channel number on which a station is being broadcast.
- 7 Searching:**
Search up and down for a signal.
- 8 Manual fine tuning:**
Only used if interference/weak signal is experienced.
- 9 Station:**
Station identification. Use the ^ or v and < or > buttons to enter up to seven characters.

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

- 1 Press **MENU** and using < or > select the **SETUP** menu. With **∨** highlight **ATV Manual Tuning** and press **OK** to select.

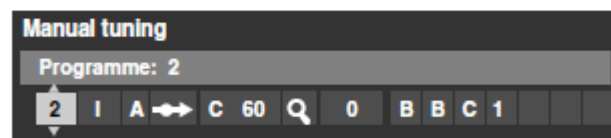


- 2 Use **∧** or **∨** to highlight the programme position required e.g. we suggest **Prog. 0** for a media recorder.

Manual Tuning		
Prog.	Channel	Station
2	C60	BBC1
3	S23	C-23
4	C27	C-27
5	S31	S-31
6	C35	C-35
7	C40	C-40
8	C50	C-50
9	C65	C-65

Different **Channel** numbers may be displayed.

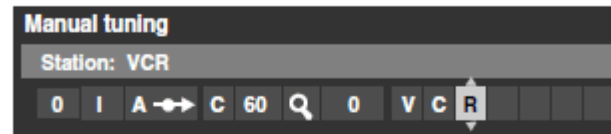
- 3 Press **OK** to select. If the programme is skipped, **Skip** must be removed before storing.



- 4 Press > to select **System** and use **∧** or **∨** to change if required.
- 5 Then press > to select **Searching**.
- 6 Press **∧** or **∨** to begin the search. The search symbol will flash.



- 7 Each signal will show on the television, if it is not your media recorder, press ^ or v again to restart the search.
- 8 When your media recorder signal is found, press > to move along to **Station**. With ^, v, < and > put in the required characters, e.g. **VCR**.



- 9 Press **OK** to store.
- 10 Repeat for each **programme position** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.
- 11 Press **EXIT** when you have finished.

To name external equipment:

- 12 To name external equipment, e.g. DVD on EXT2, press **2** to select **2**, then select **Manual Setting** from the **SETUP** menu.
- 13 Press > to select **Label** then using ^, v, < and > put in the required characters.



PLEASE NOTE

This television has direct channel entry if the channel numbers are known.
 Select the **ATV Manual Tuning** screen in **Step 3**.
 Enter the **Programme number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel number**. Press **OK** to store.

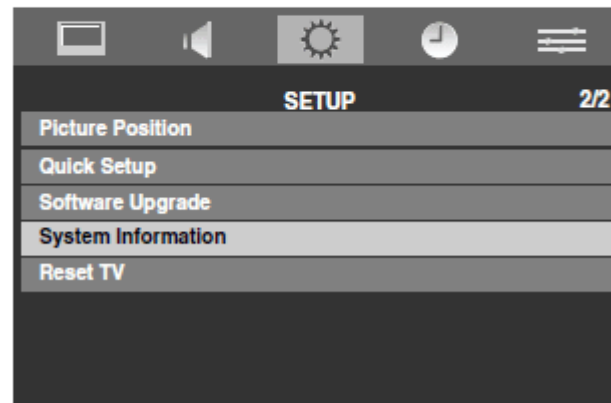
FUNCTION AND OPERATION

Software Upgrade

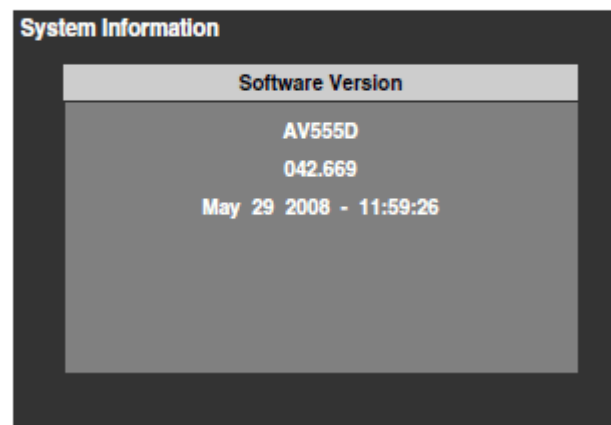
Version

This feature can be used to check the version of software currently installed.

- 1 From the **SETUP** menu press ^ or v to select **System Information**.



- 2 Press **OK** to display the **Software Version**.



Auto Upgrade

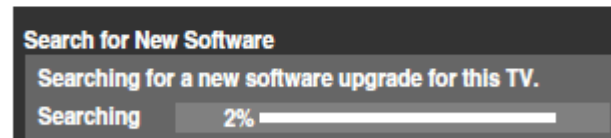
When **Auto Upgrade** is set to **On** (default setting), the television will automatically upgrade while in standby if new software is available.

- 1 From the **SETUP** menu press \wedge or \vee to select **Software Upgrade** and press \odot .
- 2 Press \vee to select **Auto Upgrade**.
- 3 Use \langle or \rangle to select **On** or **Off**.

Searching for New Software

If preferred, software upgrades can be searched for manually using **Search for New Software**.

- 1 In the **Software Upgrade** menu press \wedge or \vee to select **Search for New Software**.
- 2 Press \odot . The television will automatically start searching for a software upgrade, the progress bar will move along the line.



If an upgrade is found the television will automatically start downloading. If not, a screen will appear stating that an upgrade is unavailable.

Reset TV

Selecting **Reset TV** will reset all TV settings, including stored channels, to their original factory values.

- 1 In the **SETUP** menu press \vee until **Reset TV** is highlighted.
- 2 Press \odot to select. A screen will appear warning that all settings will be lost. Press \odot to continue.

When the set powers back on, the **Quick Setup** screen will appear. Press \odot to continue, the television will then auto tune.

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		
Italy	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69		
Spain	UHF 21-69		
Netherlands	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

EXT1	Input/Output	21-pin SCART	RGB, A/V
EXT2	Input/Output	21-pin SCART	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
HDMI 1/2	Input	HDMI™ (Audio LIP SYNC supported)	
HDMI1 Audio		Phono jacks	Audio L + R

Stereo		Nicam 2 carrier system
Visible Screen Size (approx.)	Model	32 80cm 37 94cm 42 107cm
Display		16:9
Sound output (at 10% distortion)		Main 10W + 10W
Power consumption as specified in EN60107-1 : 1997	Model	32 112W 37 149W 42 195W
Standby (approx.)	Model	32 0.9W 37 0.9W 42 0.9W
Dimensions (approx.)	Model	32 55cm (H) 80cm (W) 22cm (D) 37 62cm (H) 91cm (W) 25cm (D) 42 68cm (H) 101cm (W) 26cm (D) (Height dimension includes foot stand)
Weight (approx.)	Model	32 14.0 kg 37 18.0 kg 42 20.0 kg
Headphone socket		3.5mm stereo
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)