

TOSHIBA

SERVICE MANUAL

LCD Color Television

37AV505D

Ver. 2.00

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

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IMPORTANT NOTICE

WARNING:

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IMPORTANT NOTICE

User's Guide

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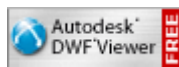
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Install Autodesk DWF Viewer

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

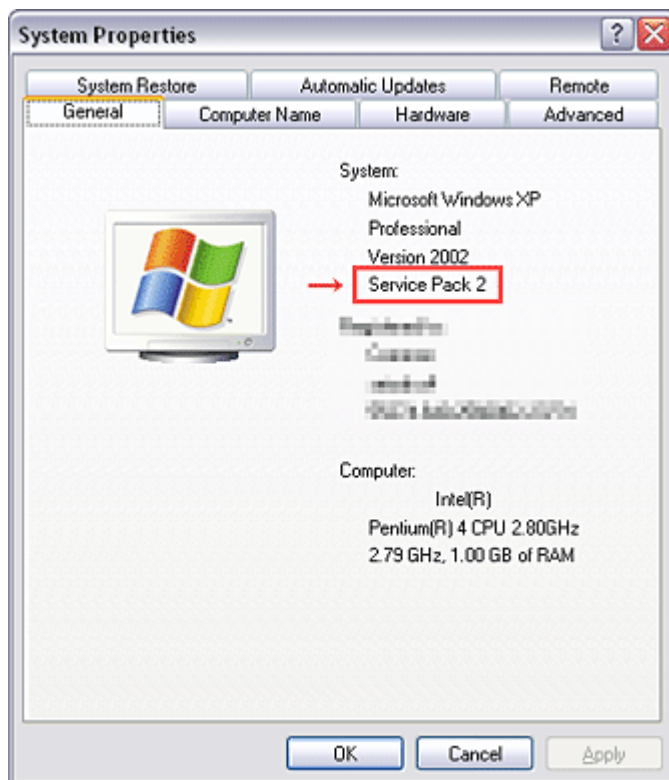


Internet Explorer Settings

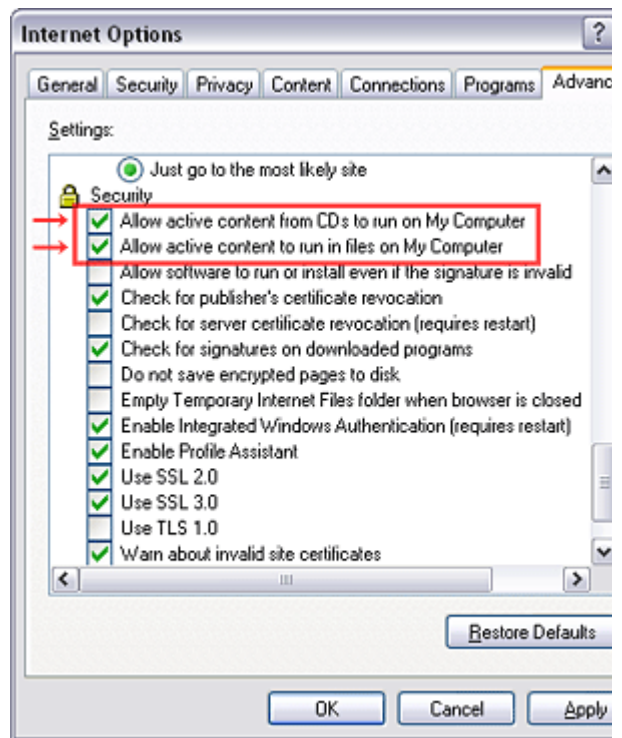
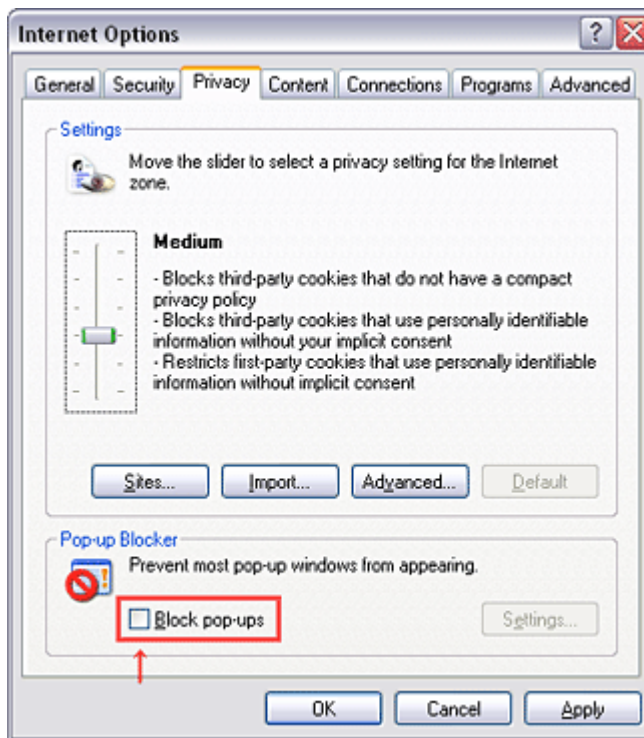
When **Windows XP SP2** or **Windows Vista** is used, ActiveX control and pop-up windows are limited by the enhanced security function and this system may not work. In that case, perform the Internet Explorer setting using the following procedure to restore normal operation.

1. Windows version check

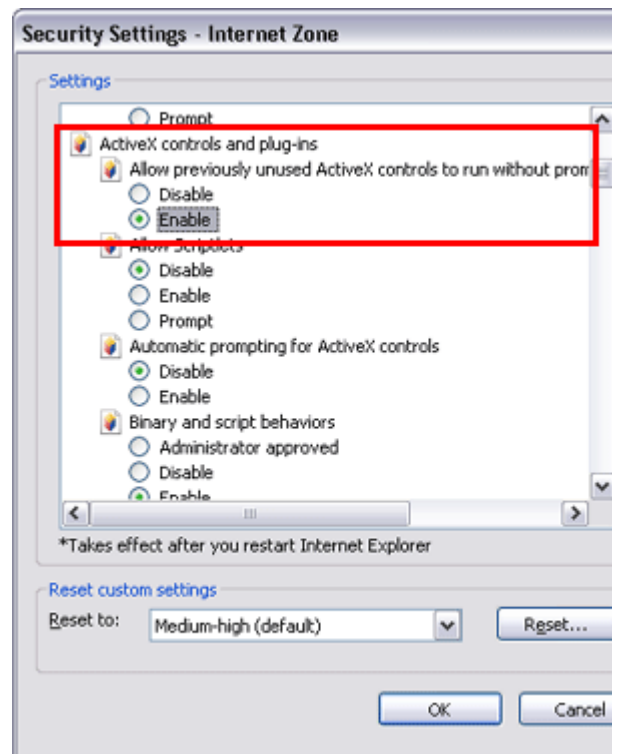
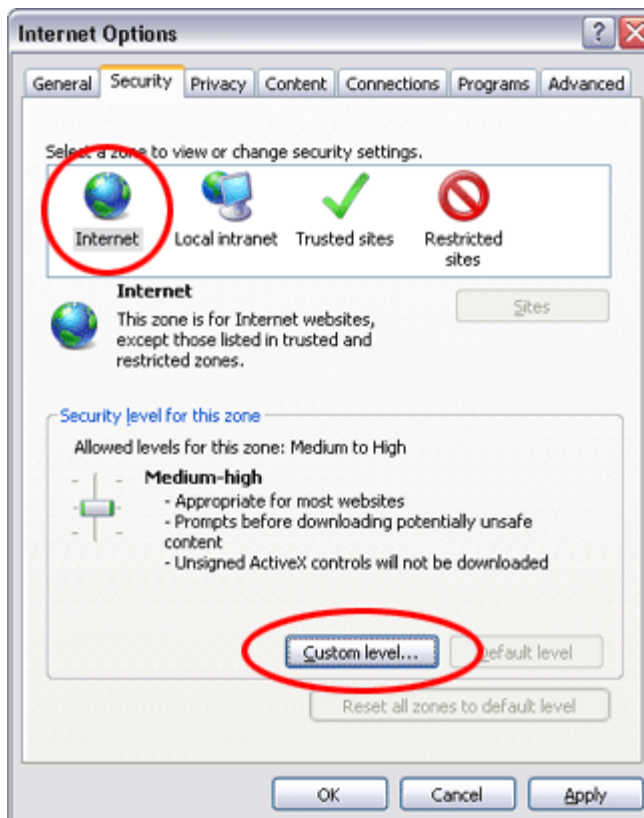
[My Computer (right-click)] - [Properties]



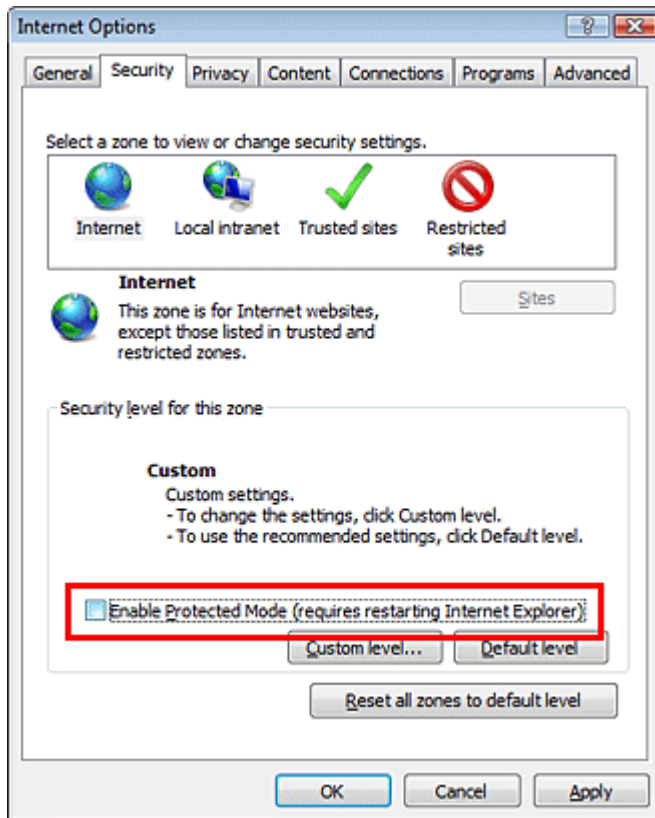
2. Internet Explorer setting
[Tools] - [Internet Options]



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 l



Parts Search Function

You can search any part within the displayed drawing or within the whole schematic diagram/board view 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 the same way.



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

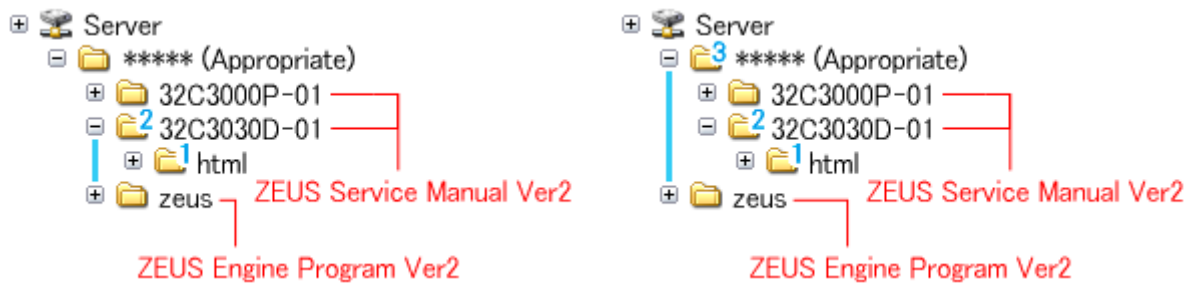
Preparation

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

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

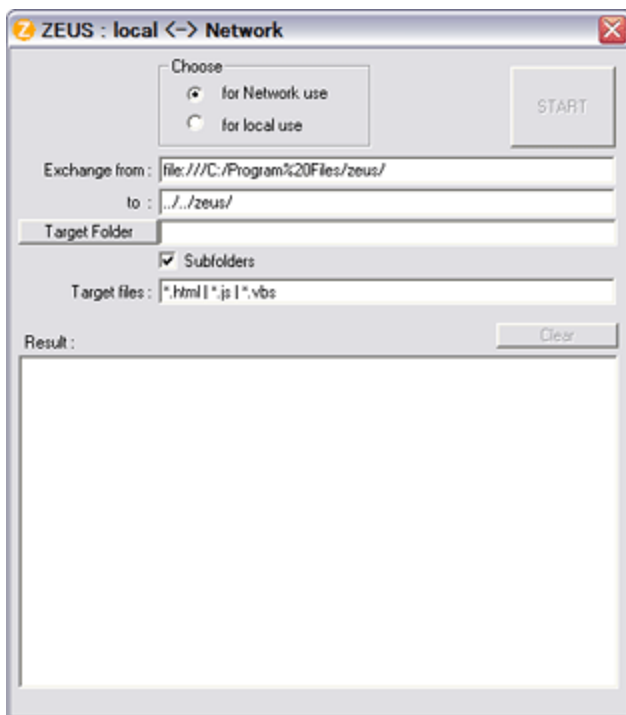
2. Run the program file ZeusSetup_v2.0.exe to install the ZEUS Engine Program in C:\Program Files\zeus of the local PC. This can be done by running the installer program provided.
3. Create the appropriate folder where the ZEUS Engine Program Ver.2 and the ZEUS Service Manual Ver.2 to be stored in the 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 ZE 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 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.

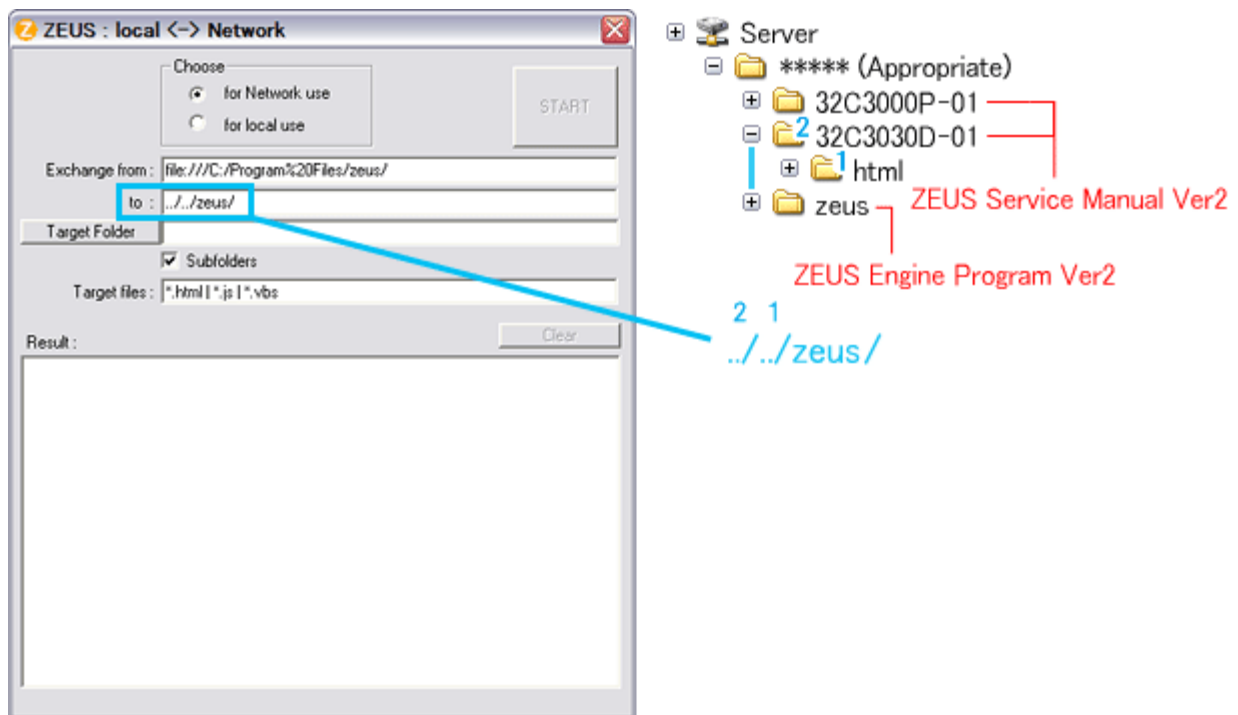
Run the zeusFPch and set "Exchange to" by referring to the examples below.

Example 1 :

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

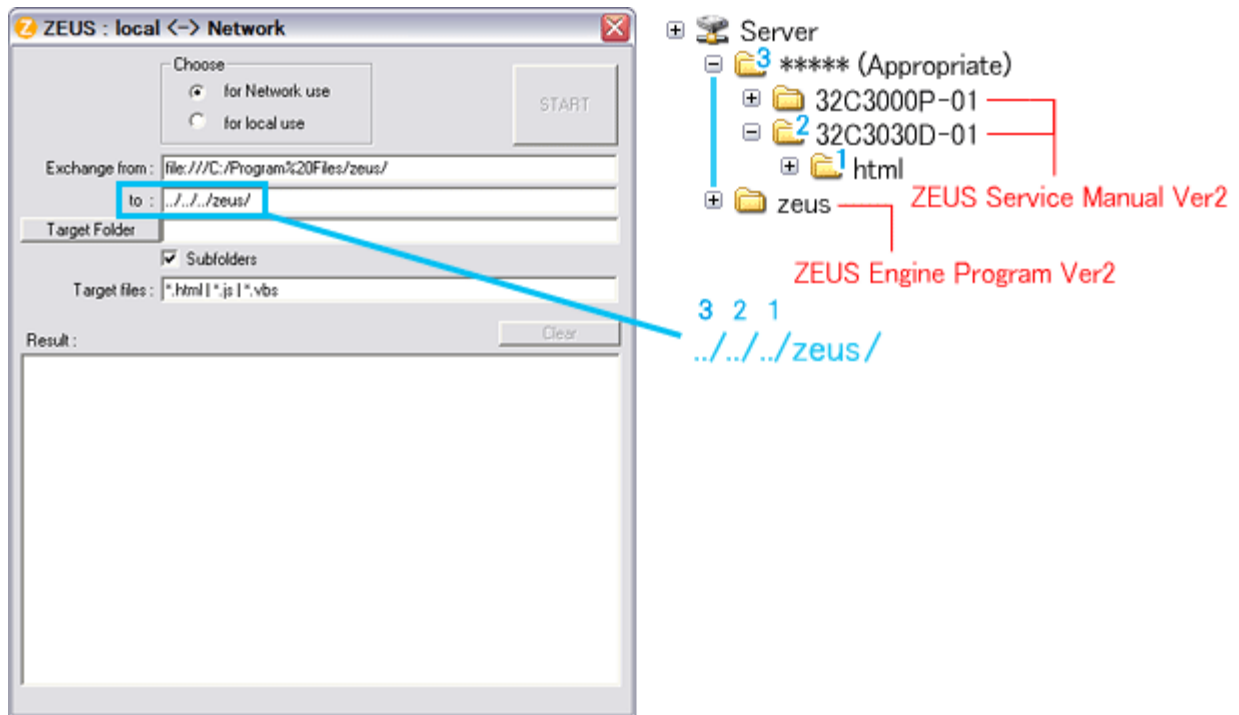
../ counts the relation between.

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

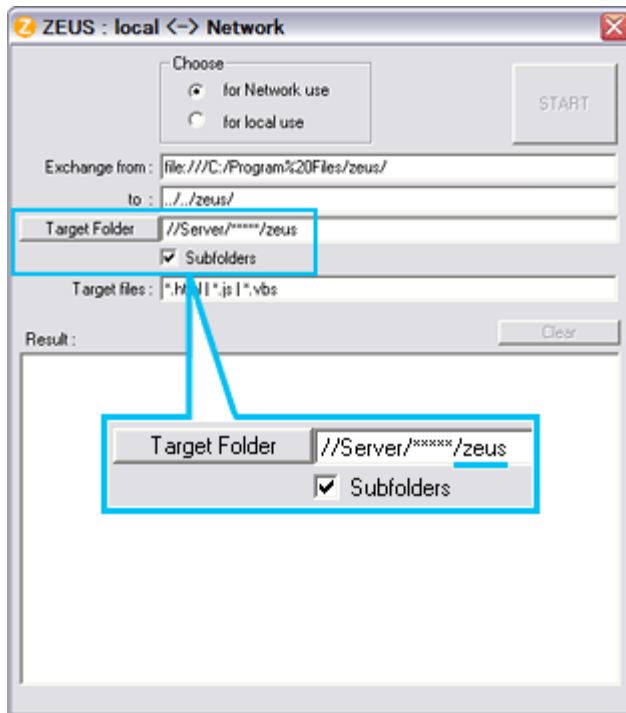


Example 2 :

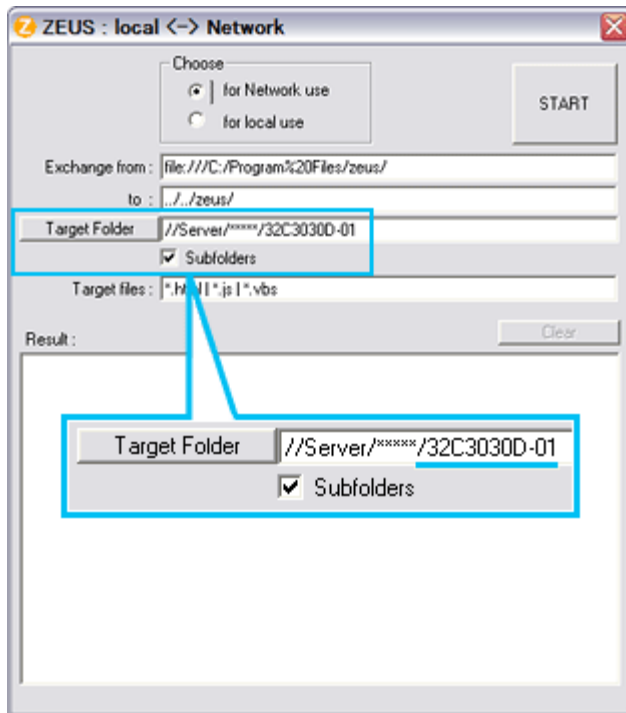
In this case, it must be **../../../zeus/** (3 counts).



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

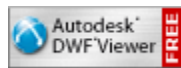
A Known Malfunction

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

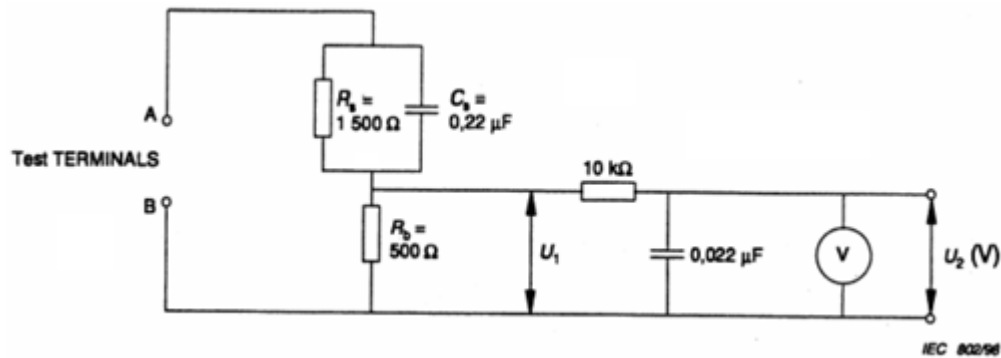
WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

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.

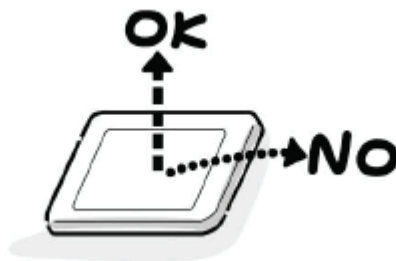
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the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



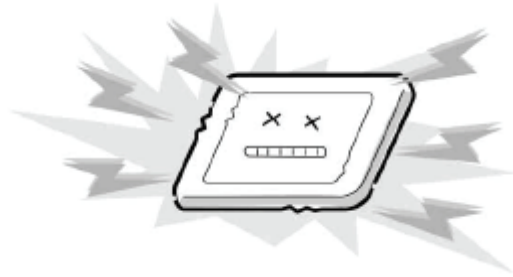
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.



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



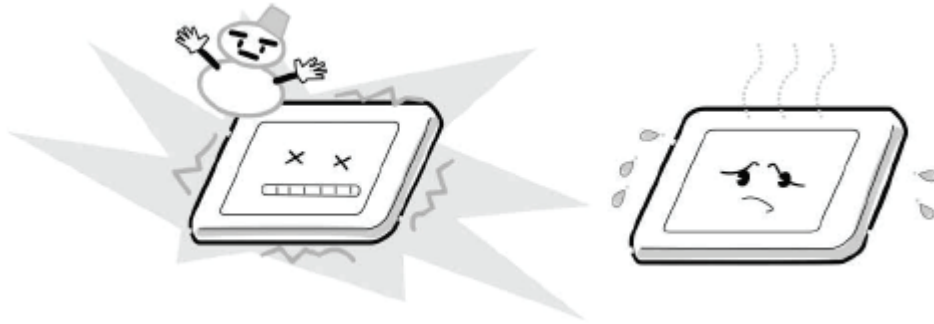
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



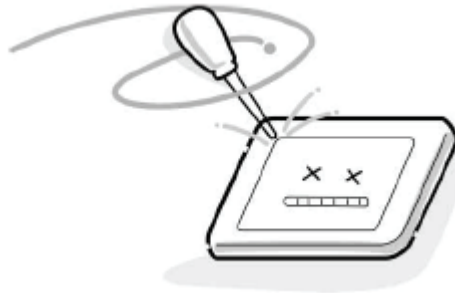
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.



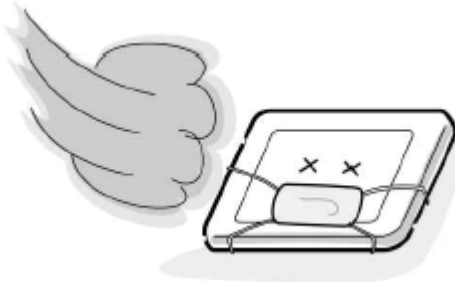
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

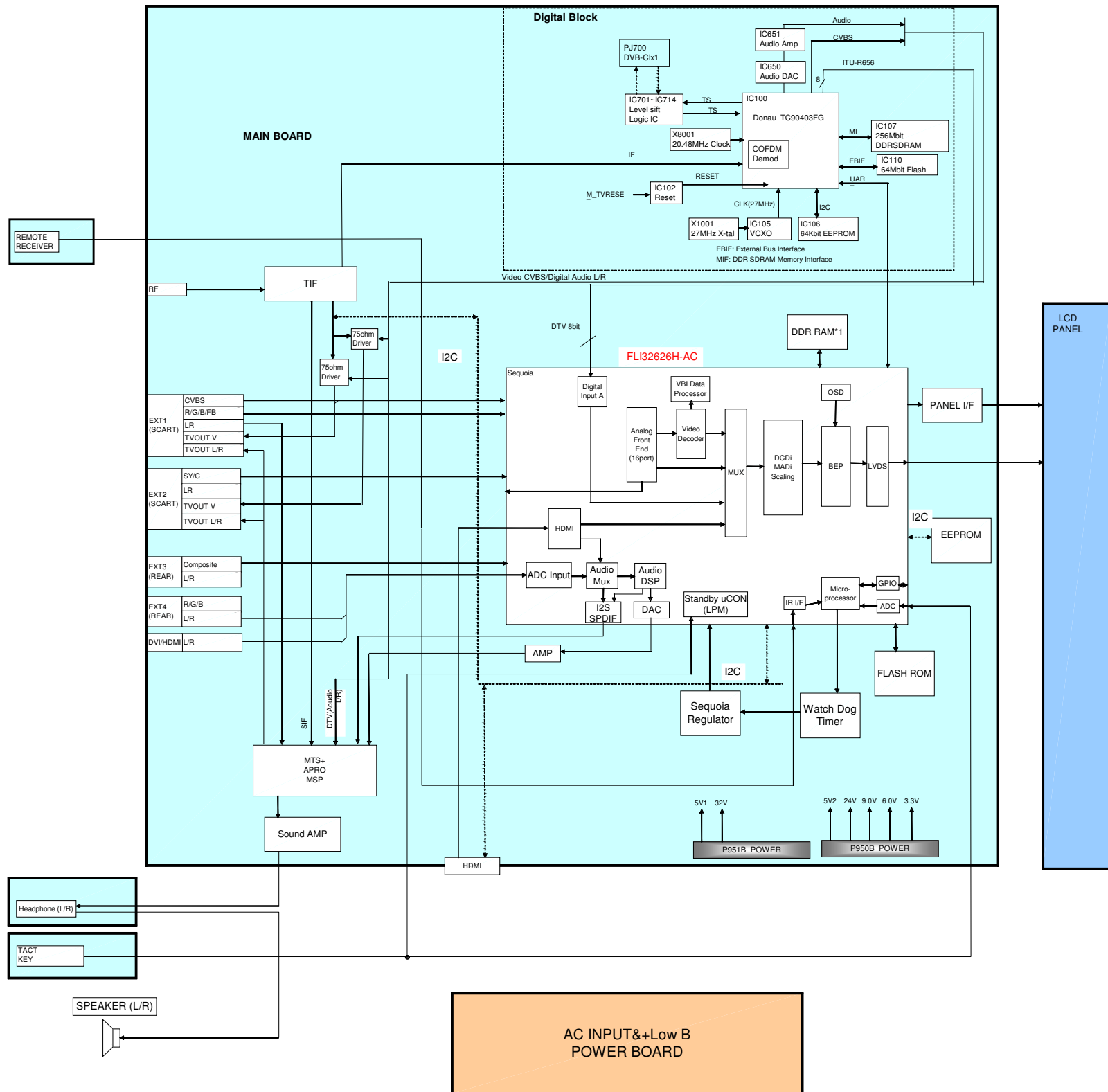


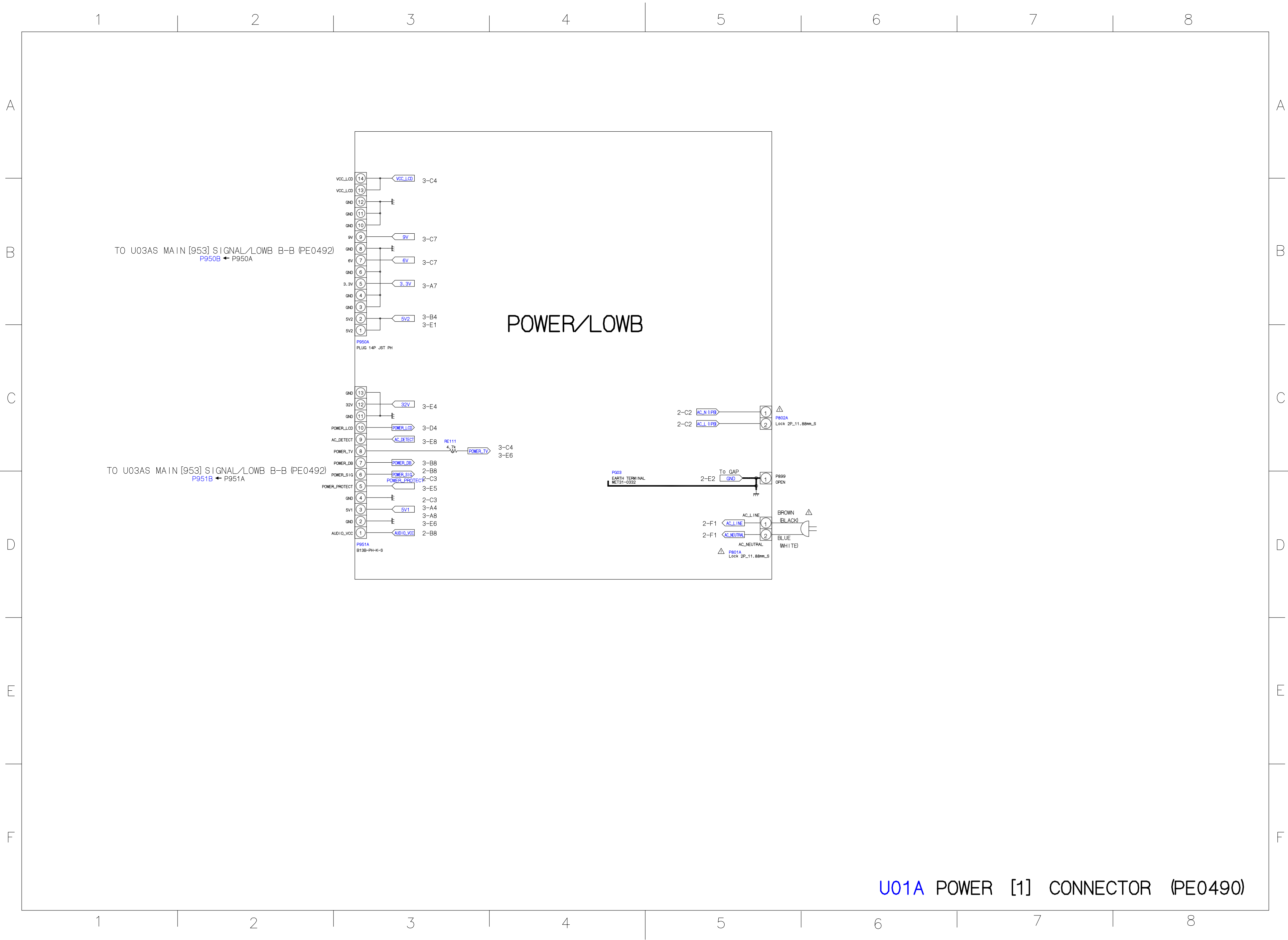
9. Do not disassemble the LCD module. Such actions could result in improper operation.

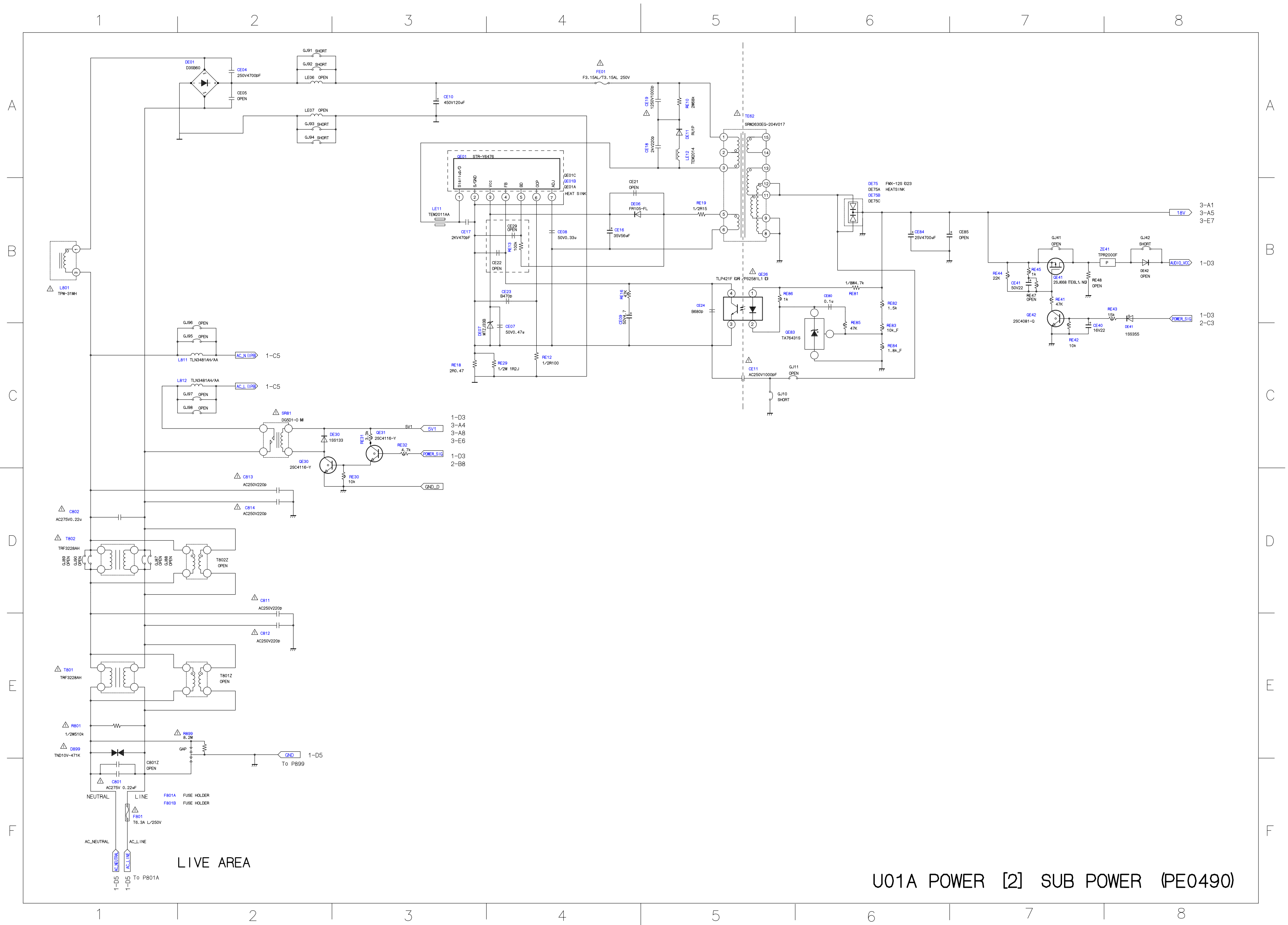


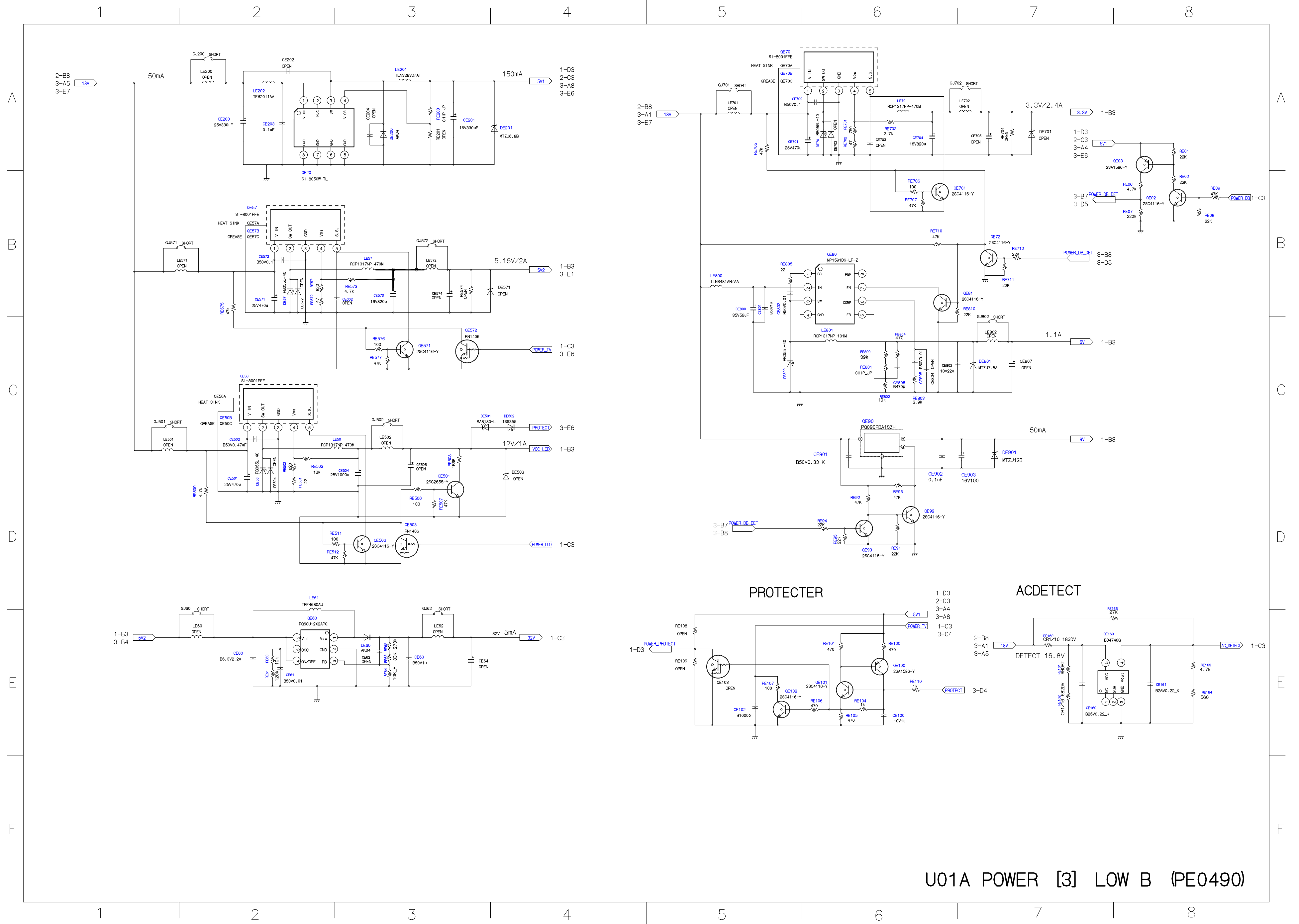
10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.











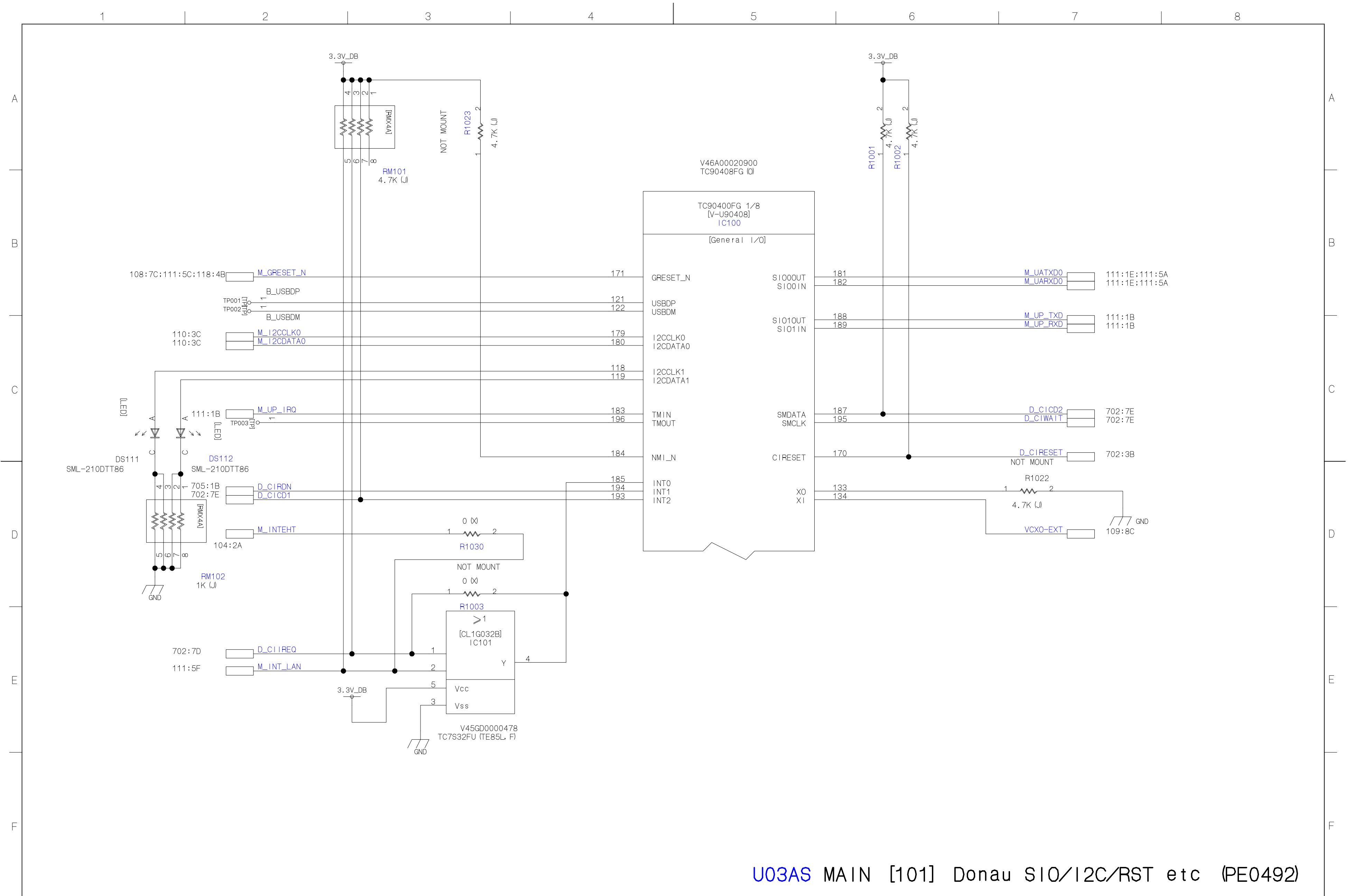
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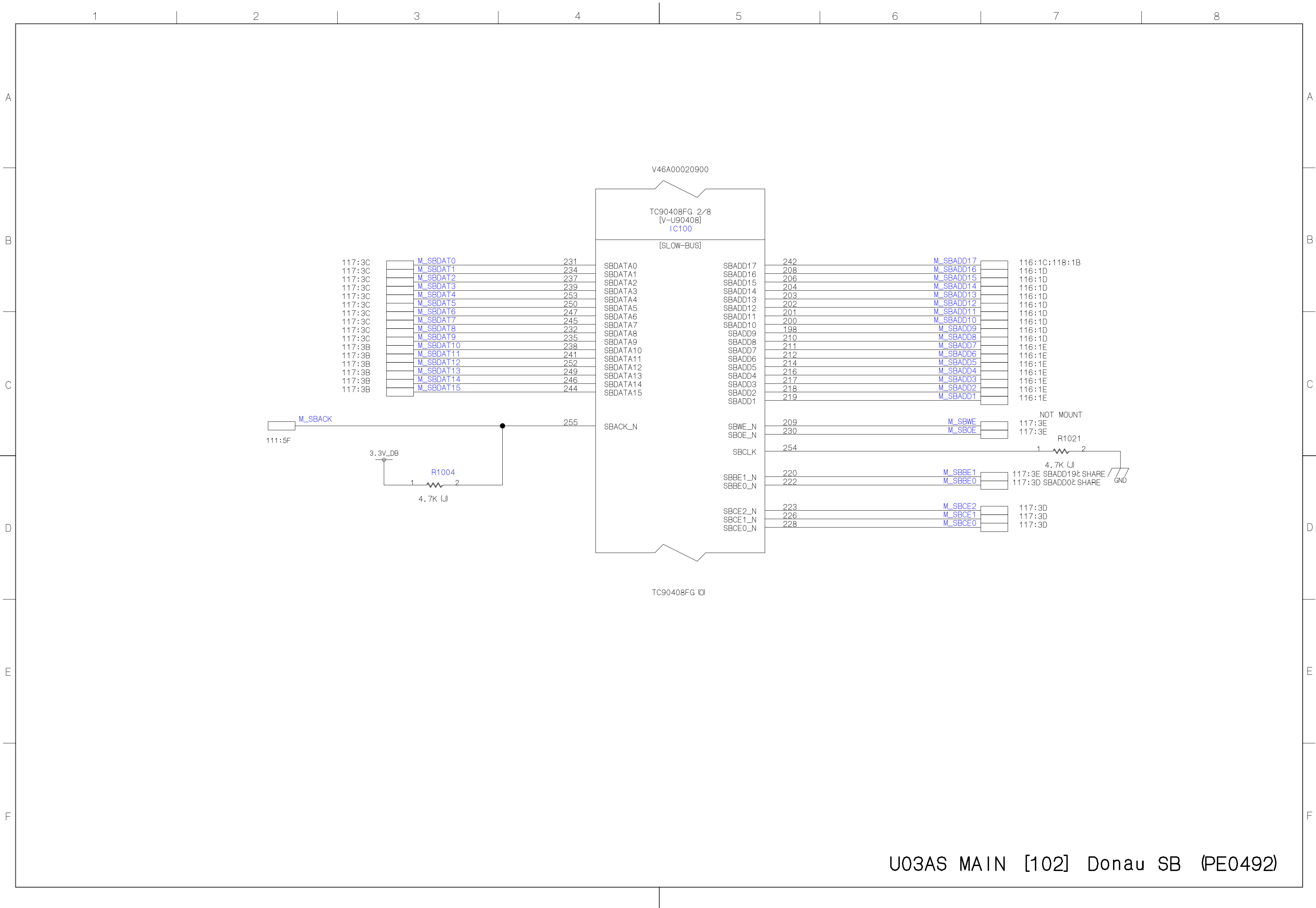


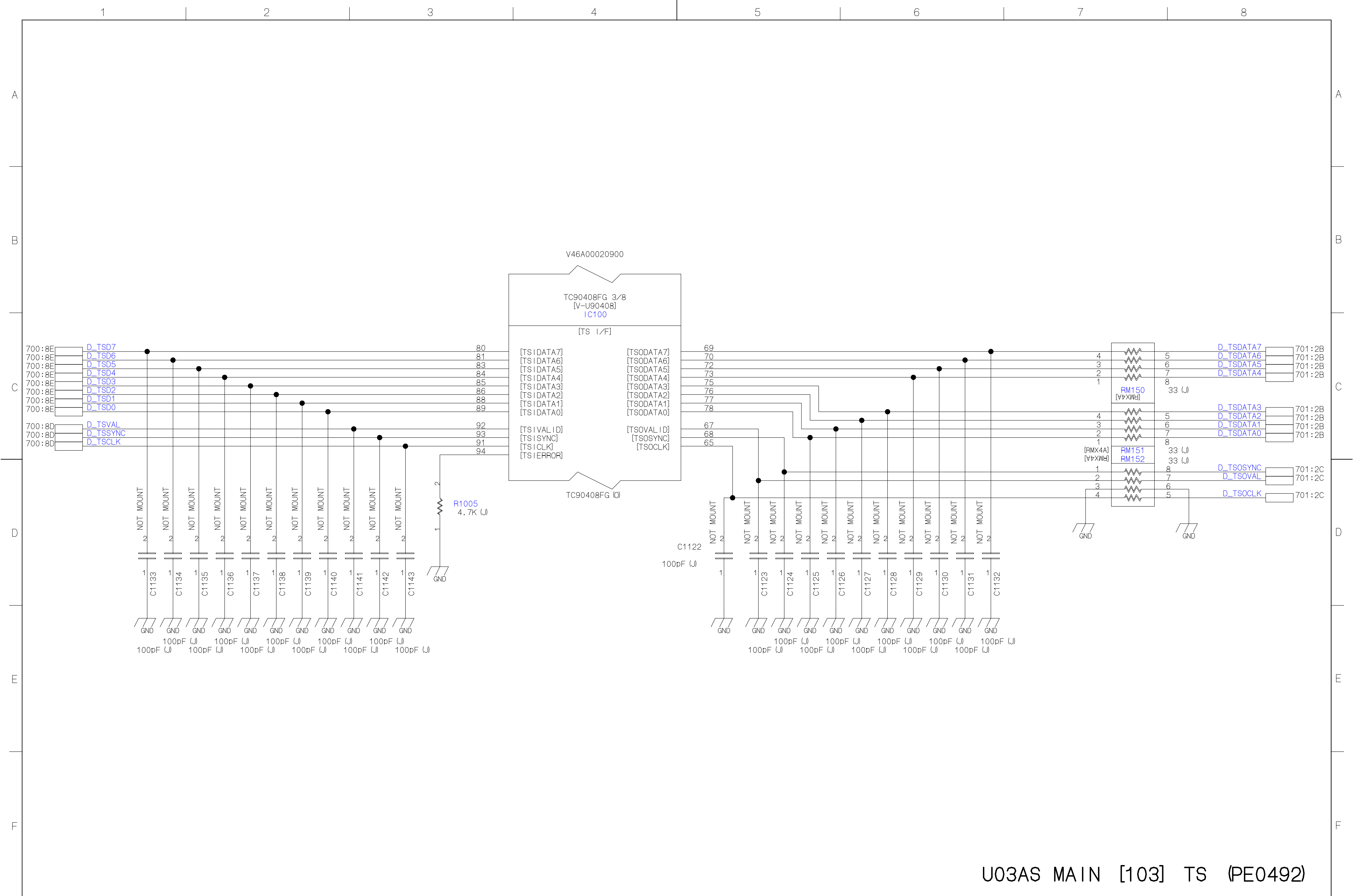
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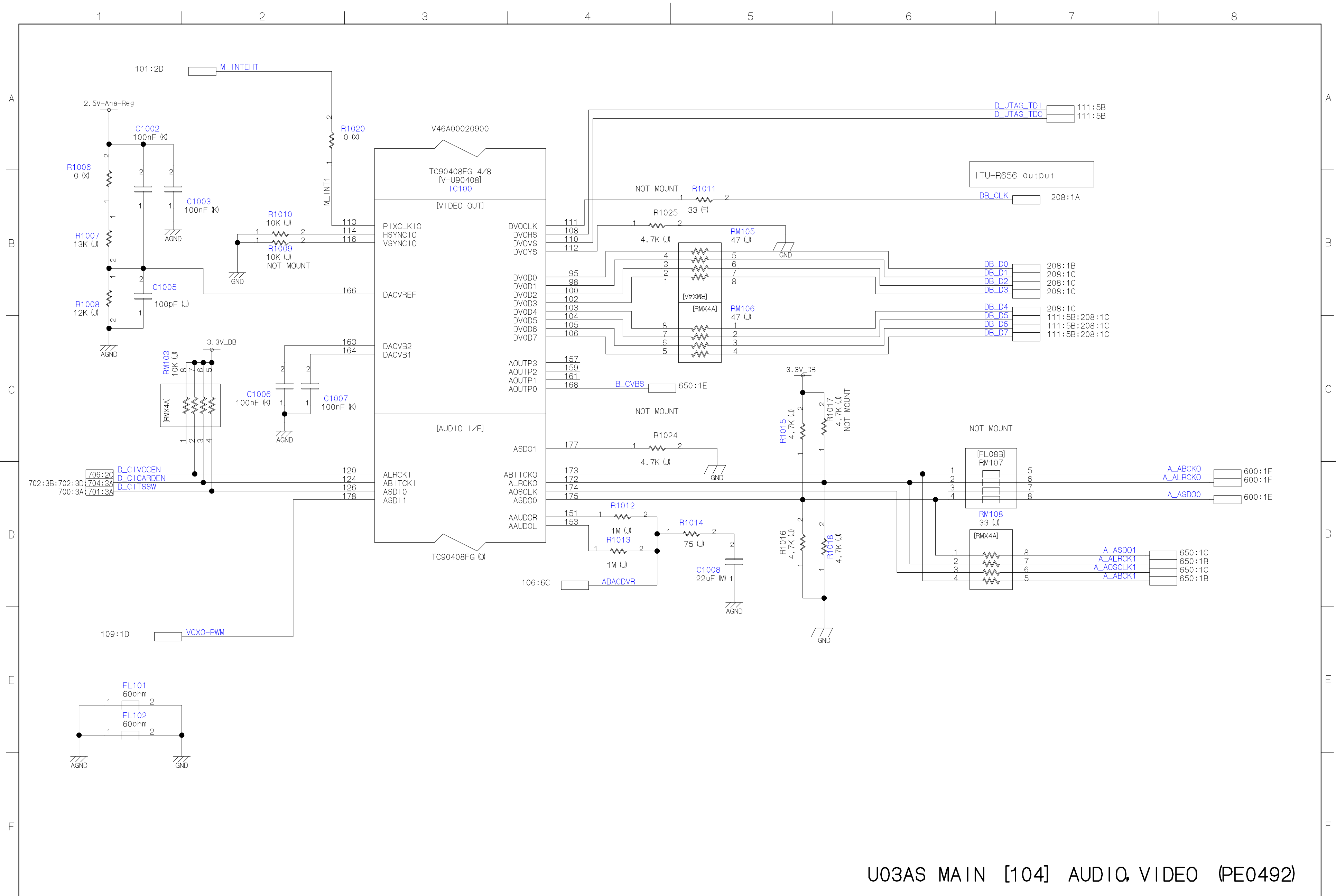
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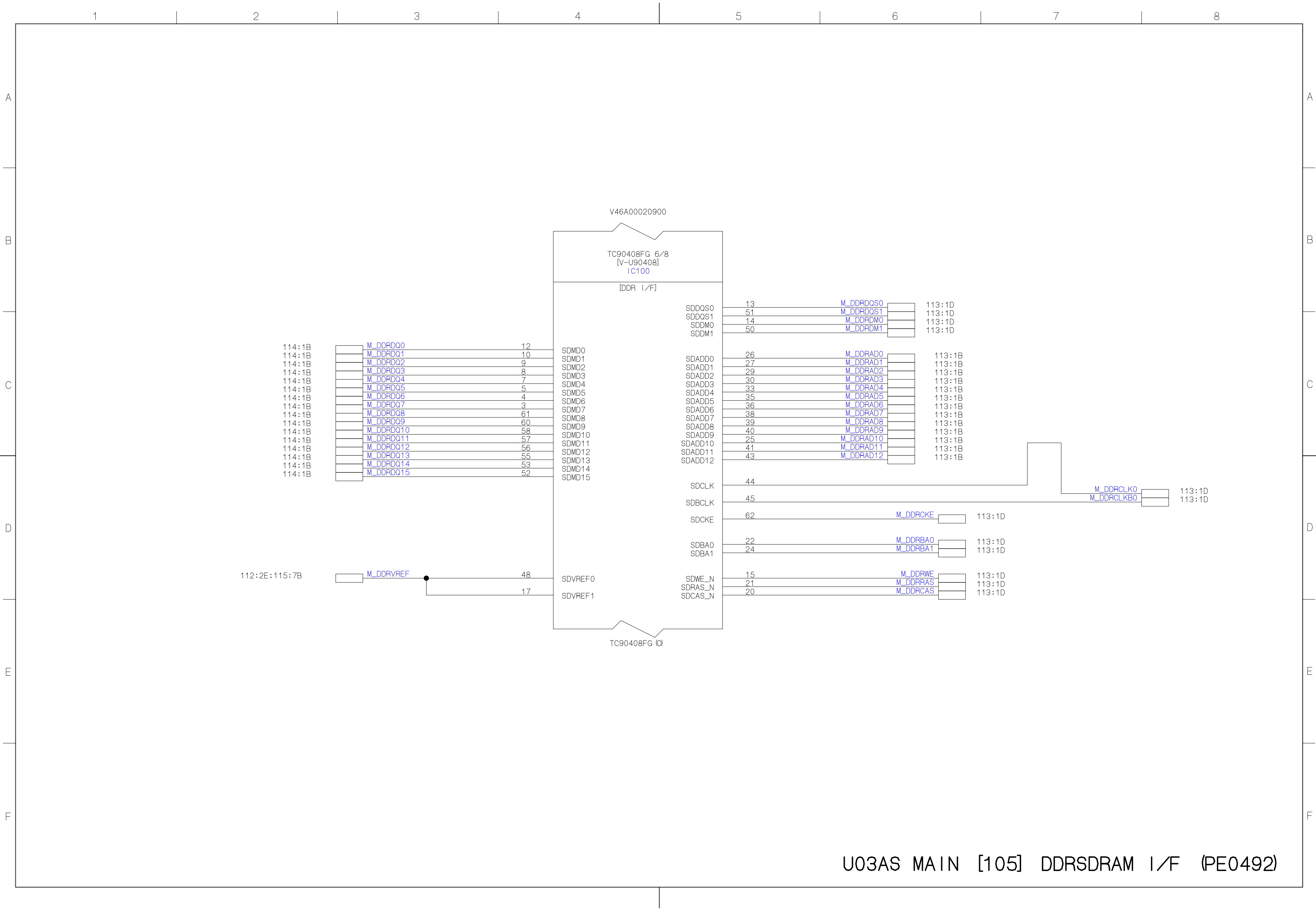
2

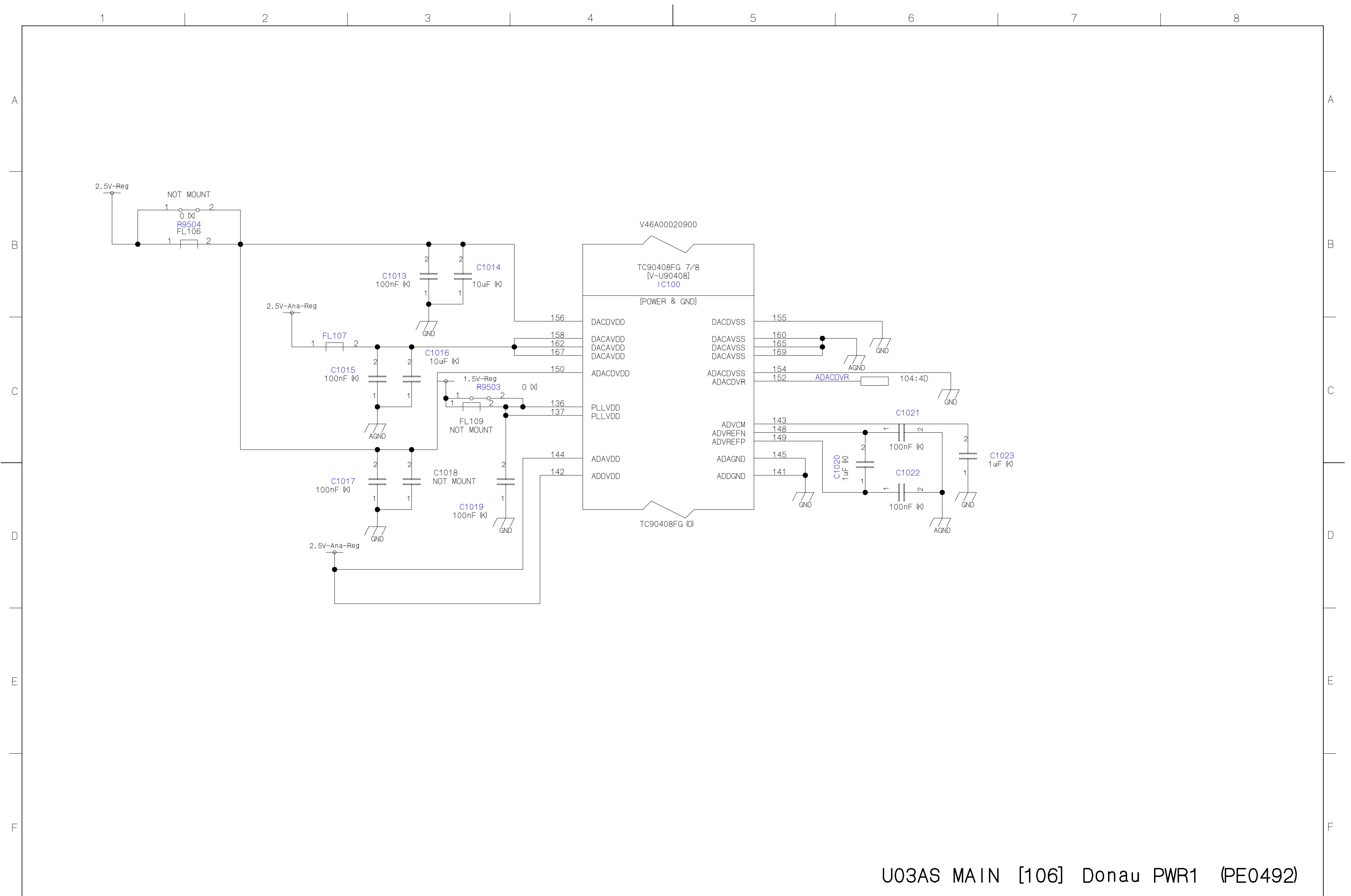


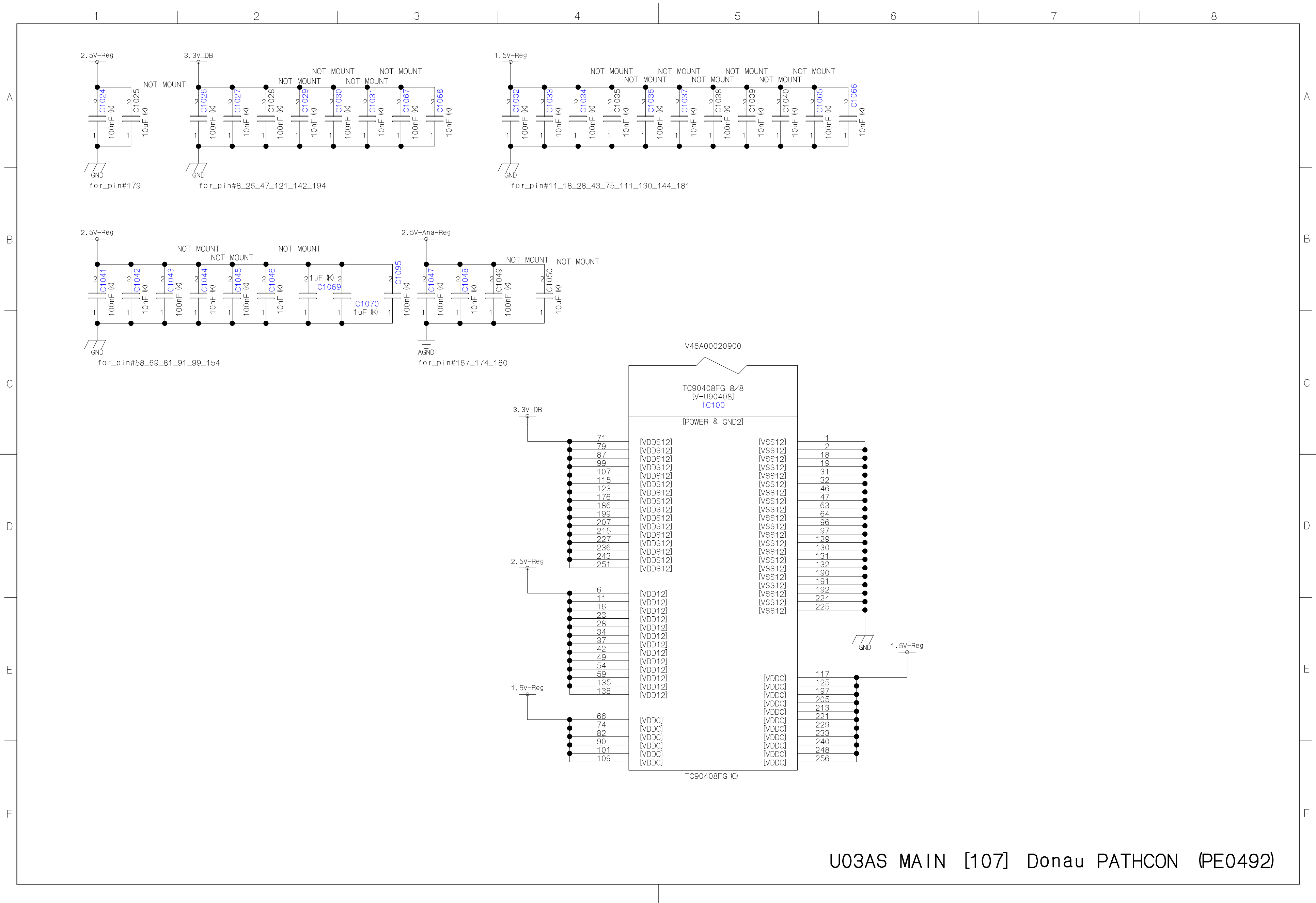


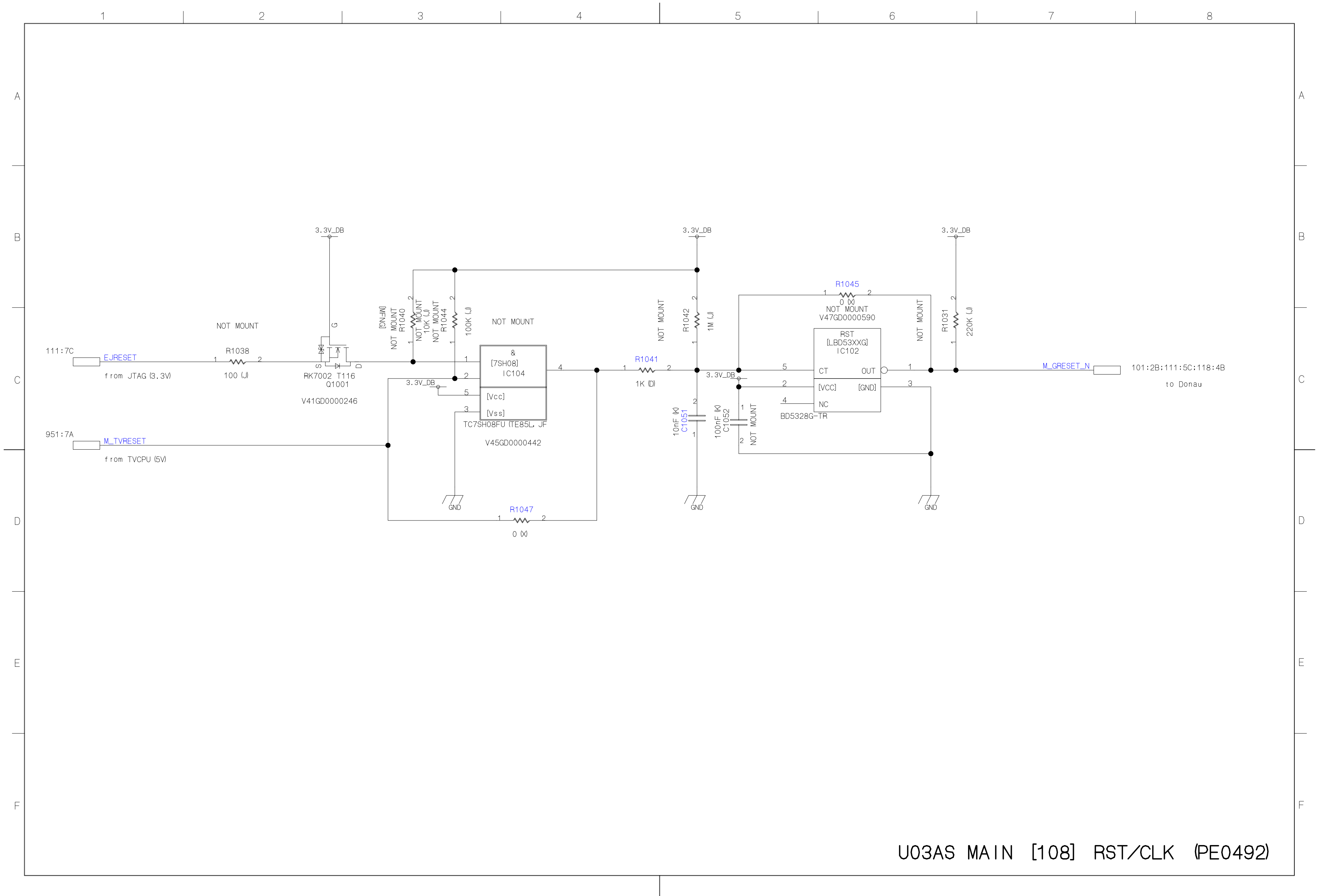


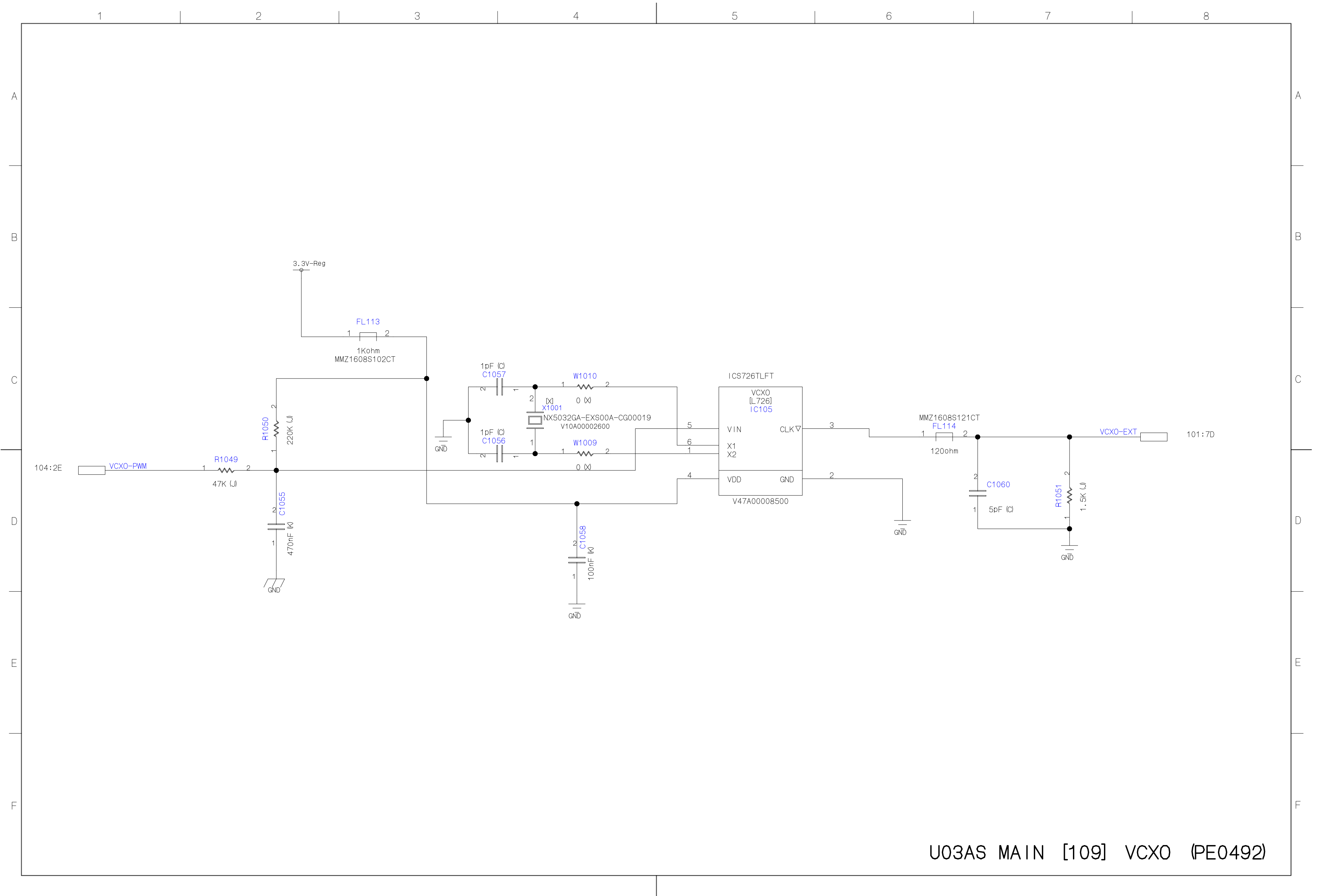


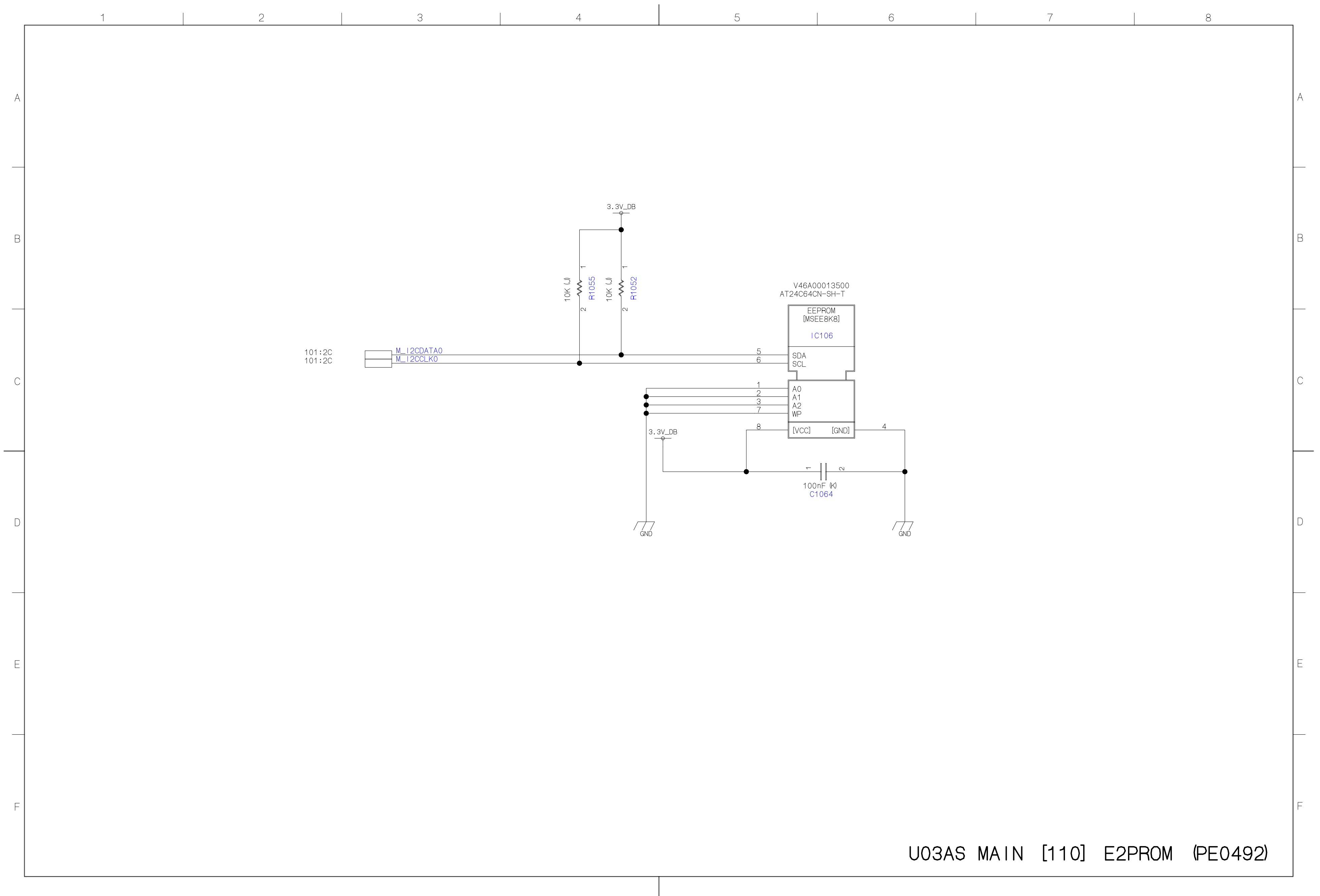


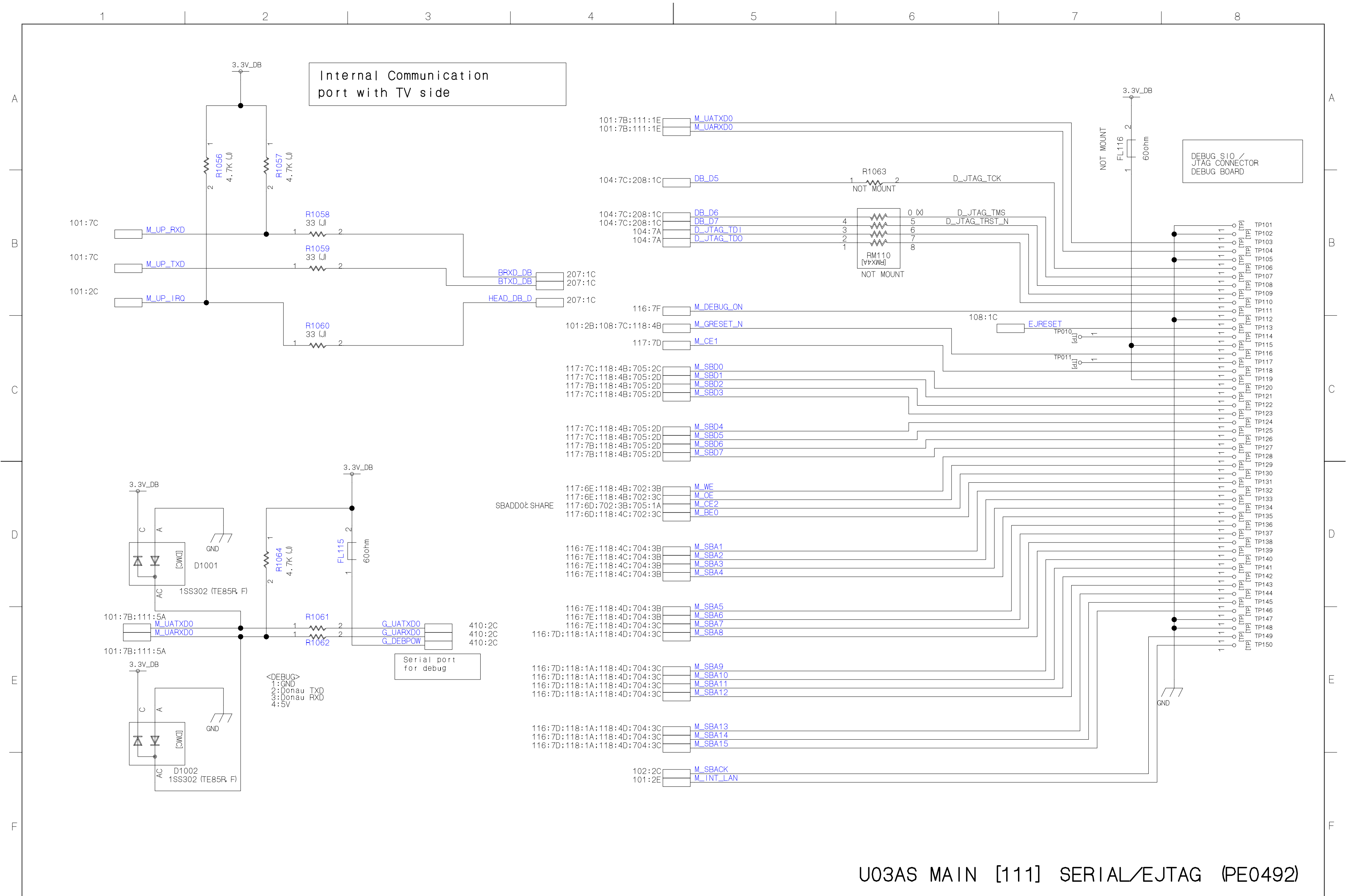


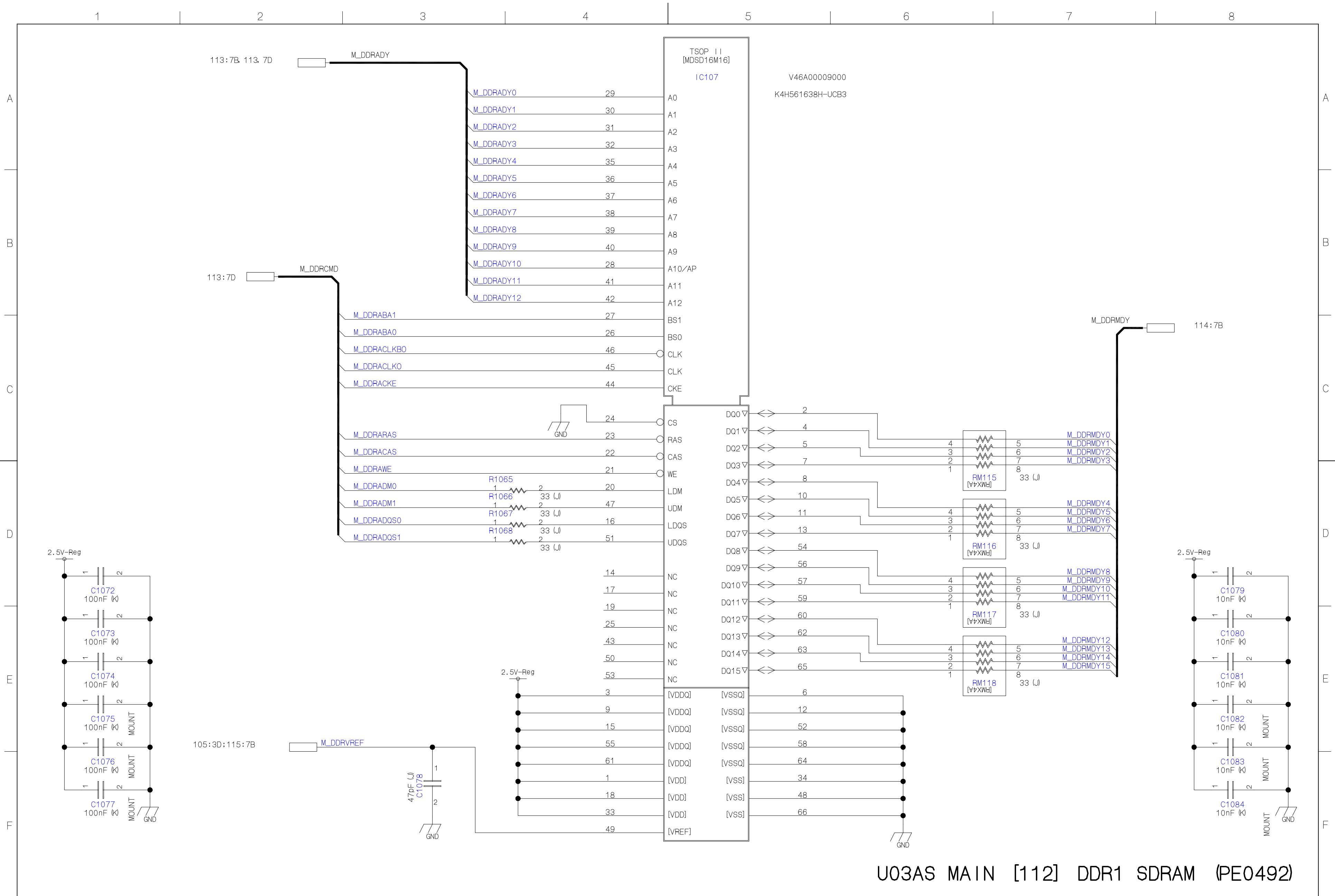


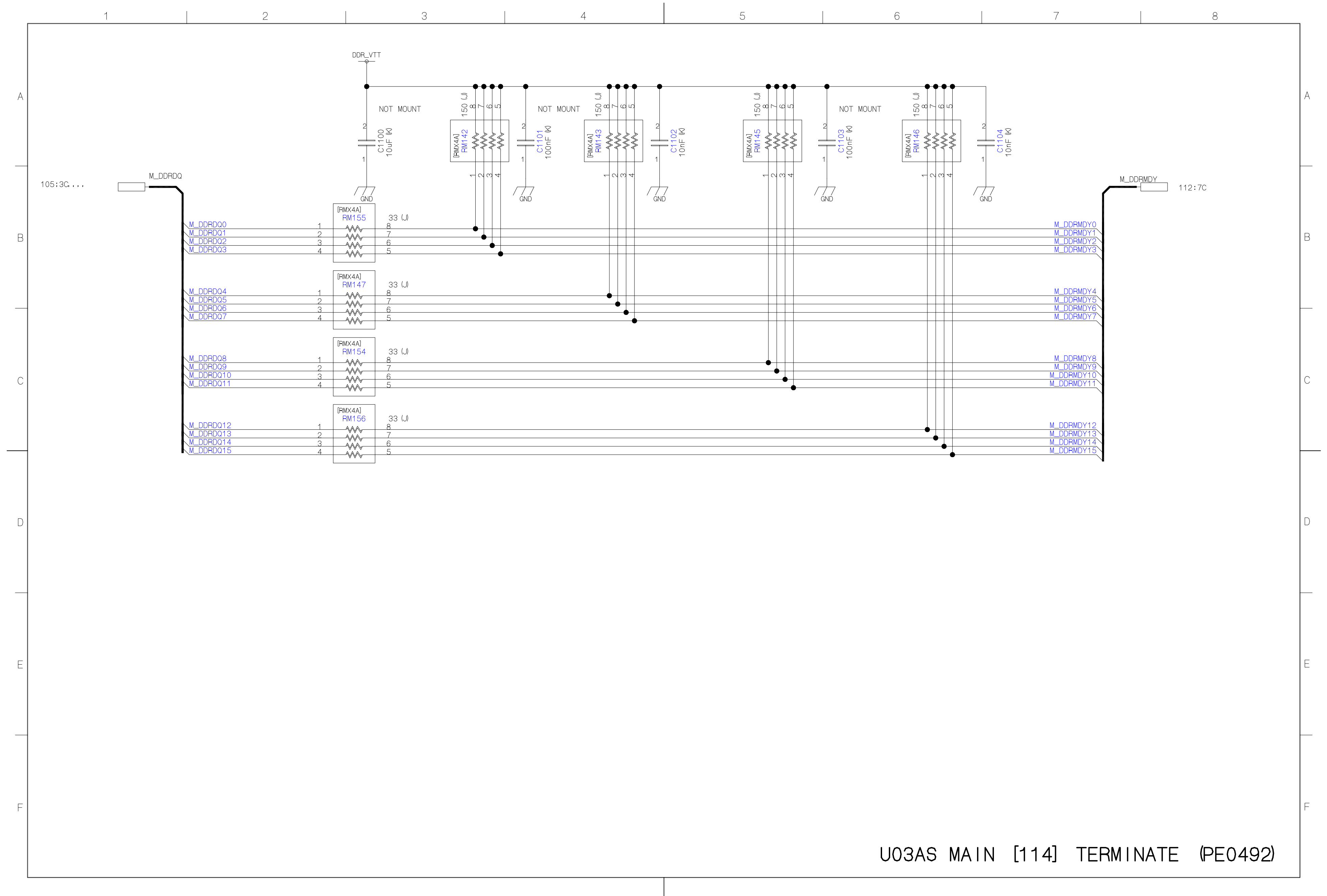


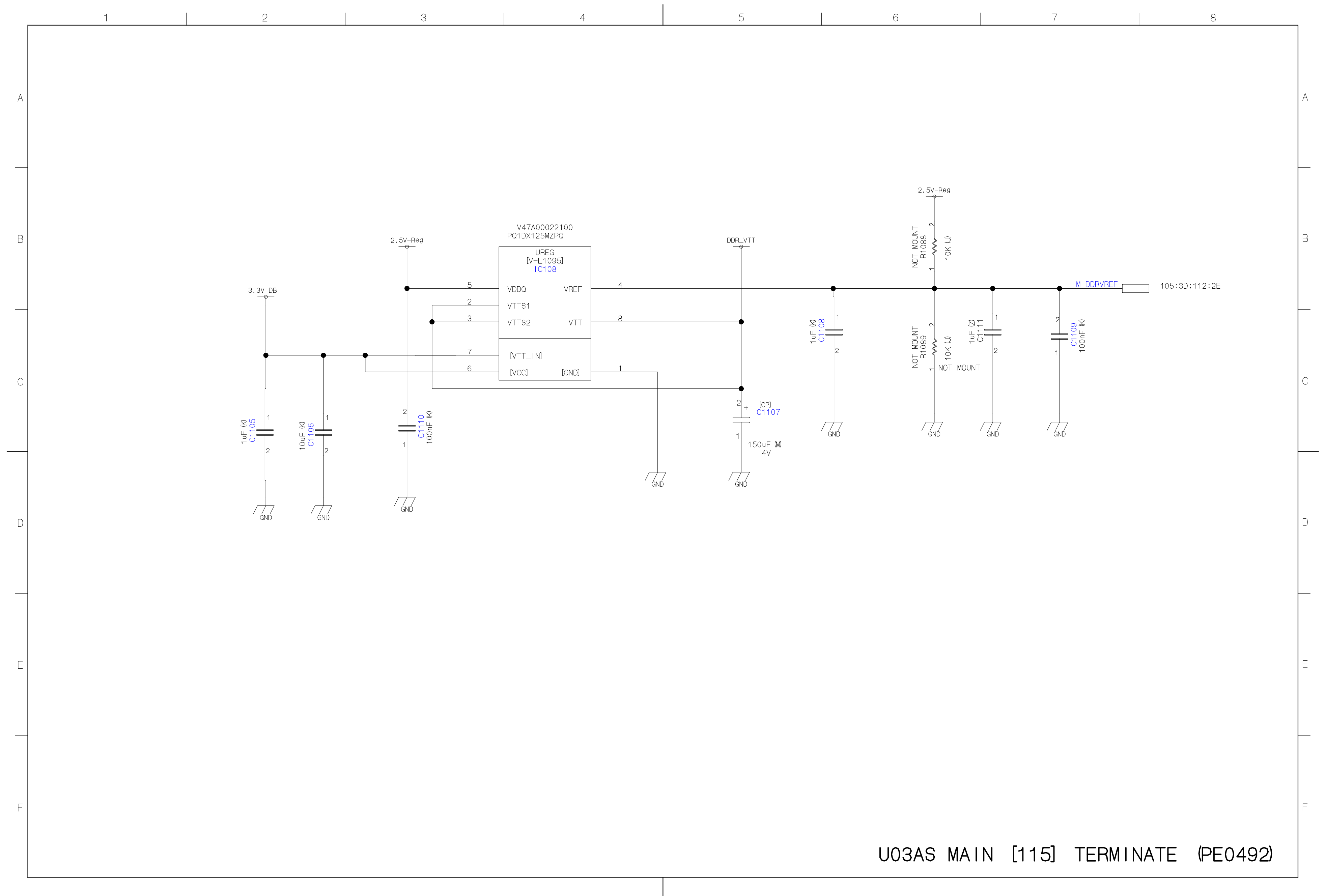


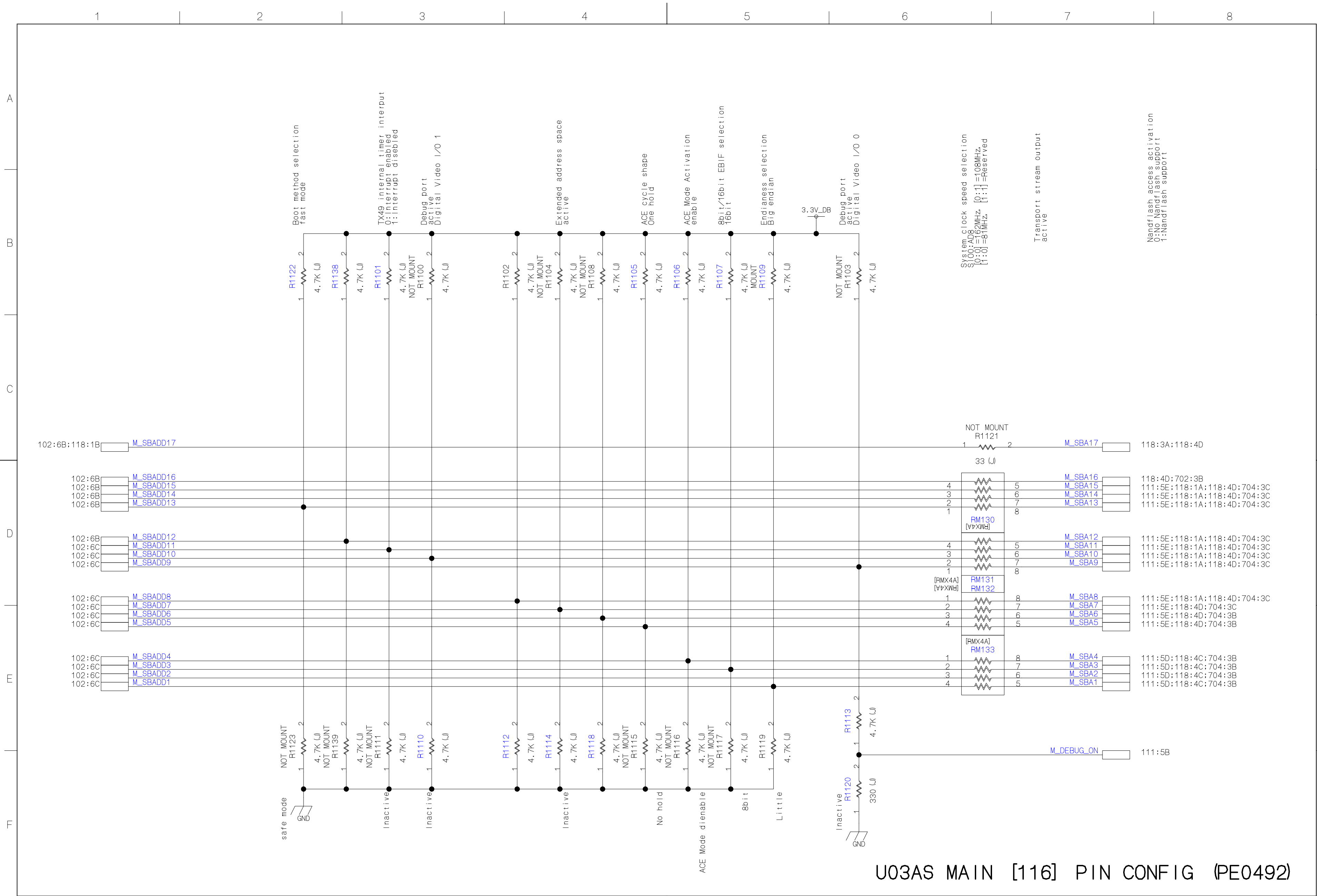


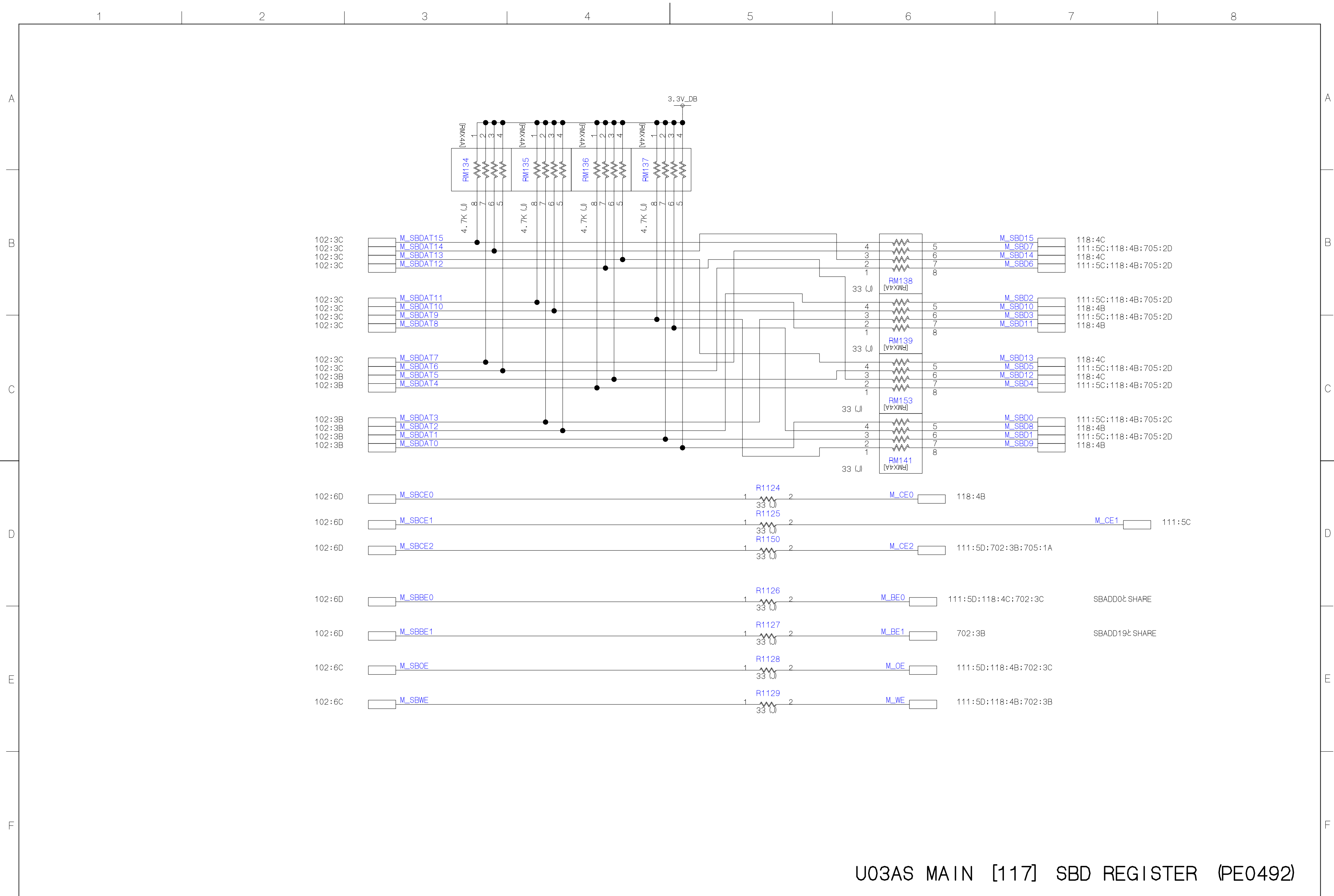




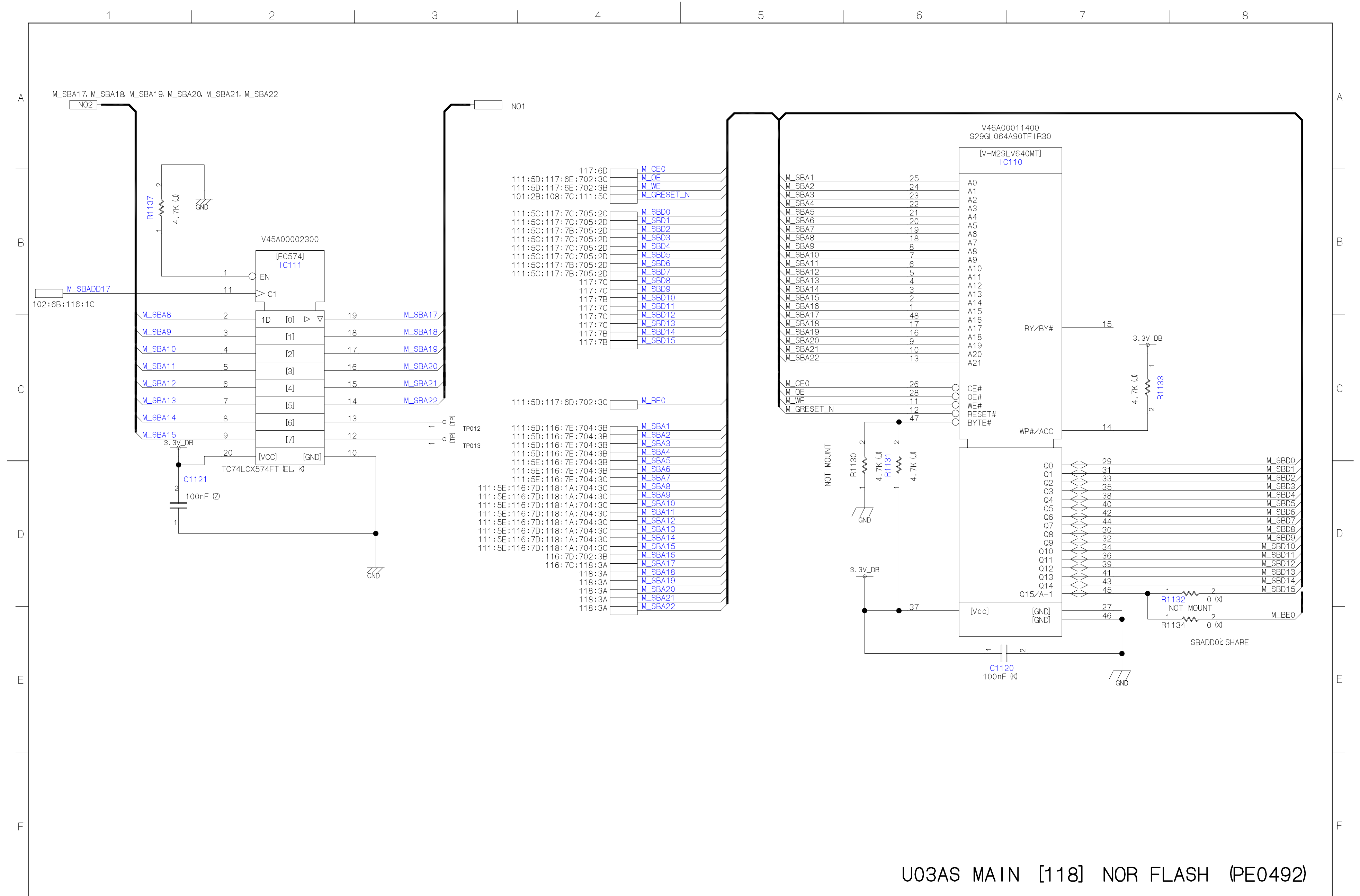


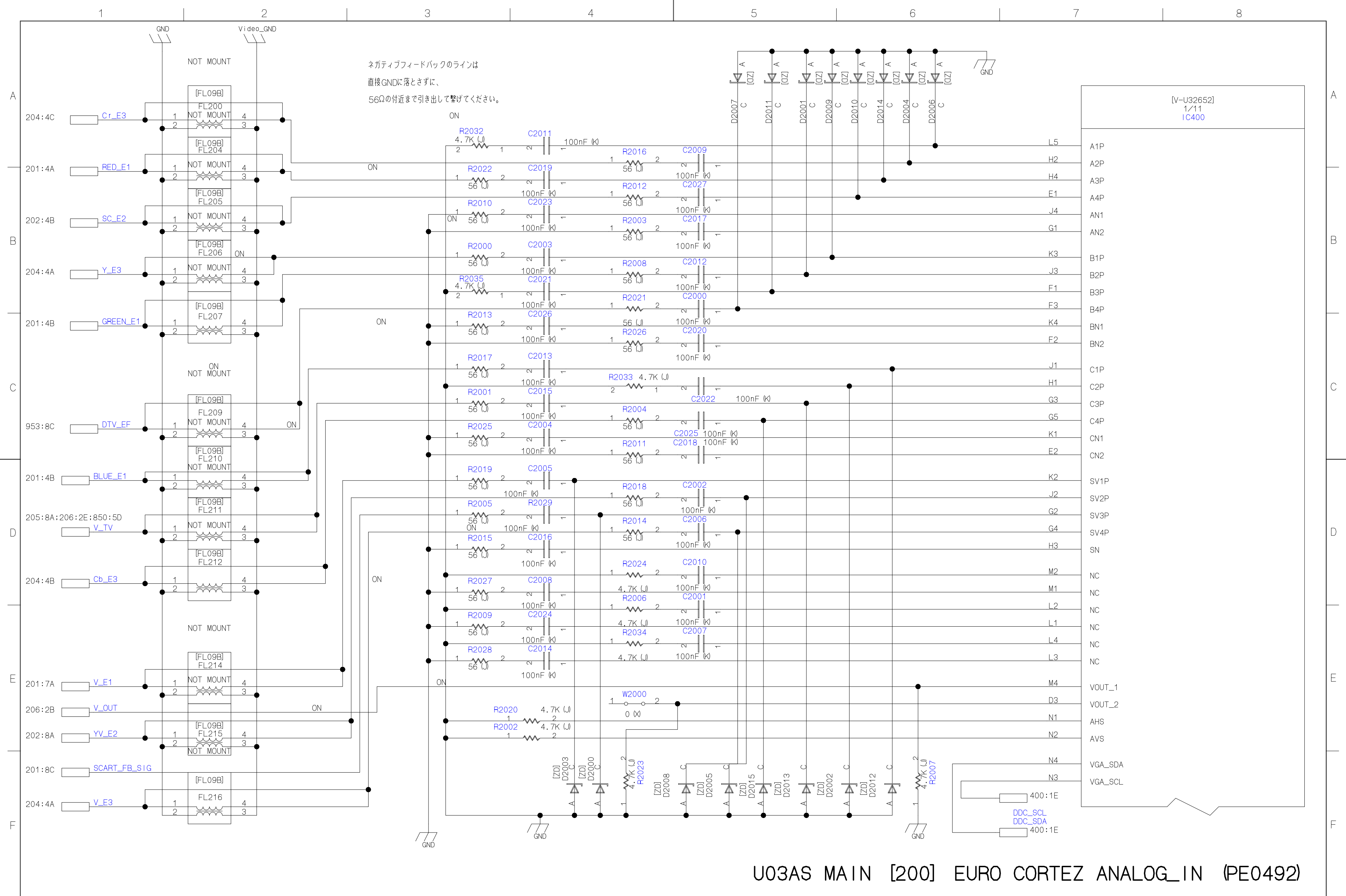


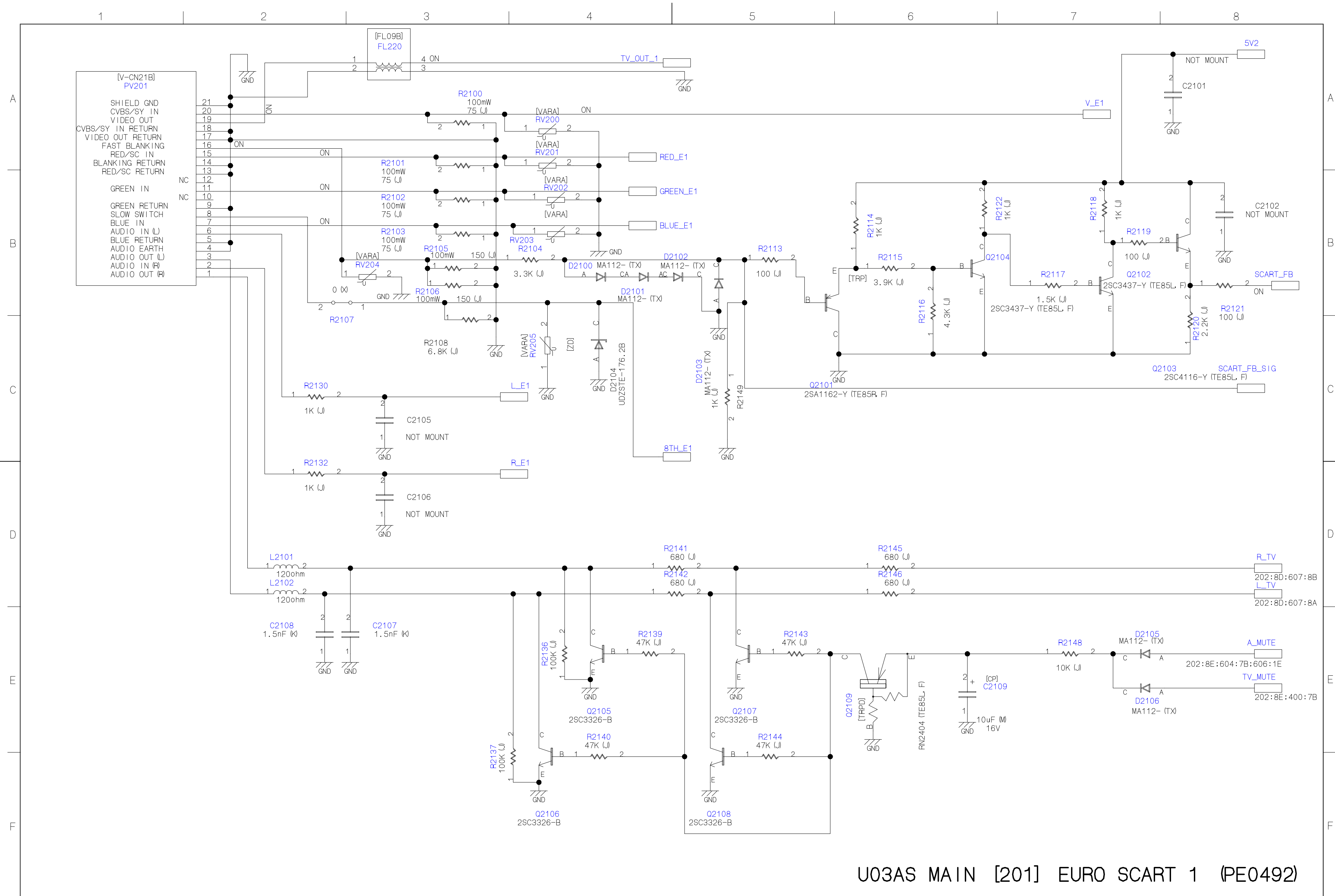


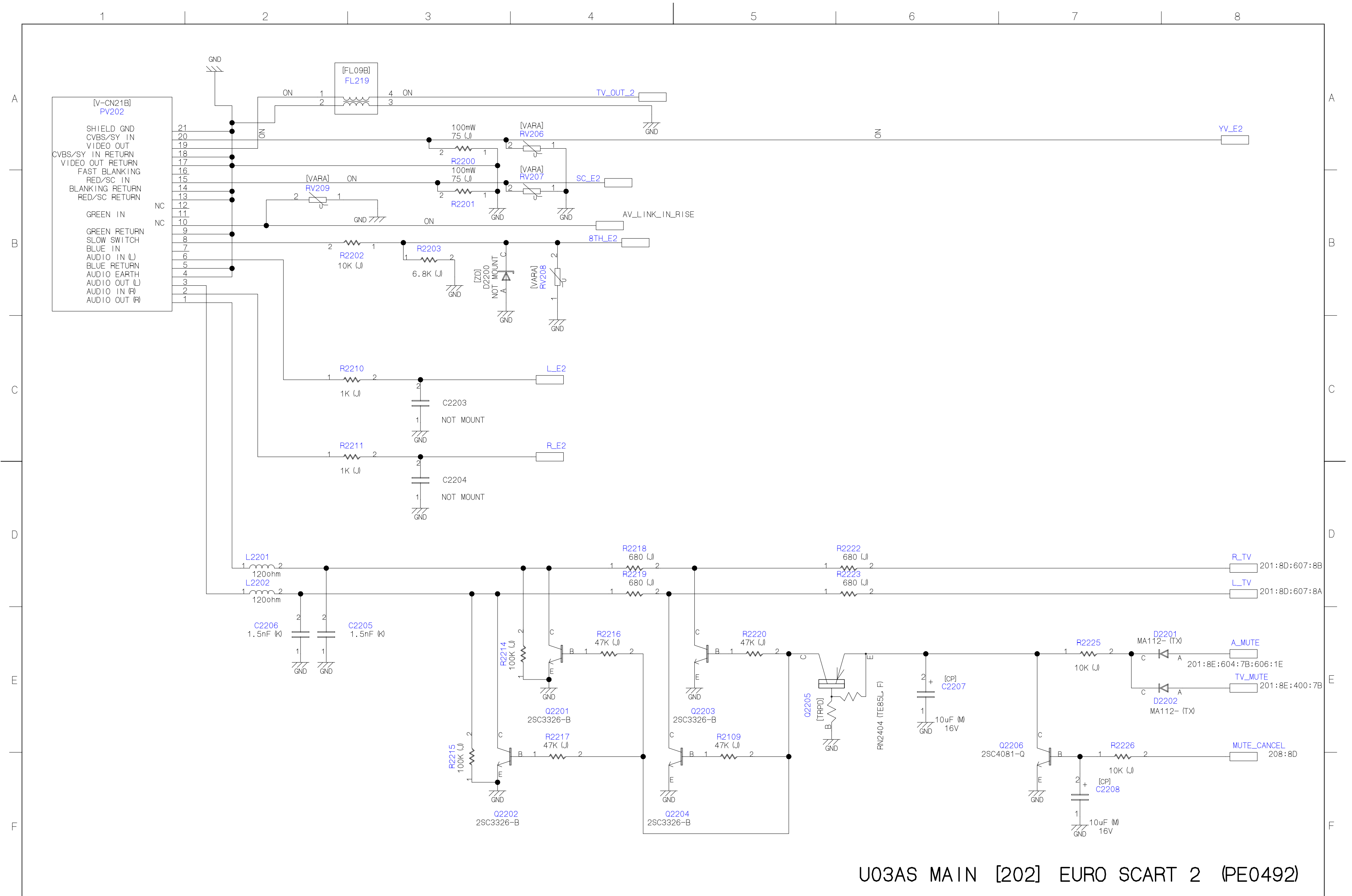


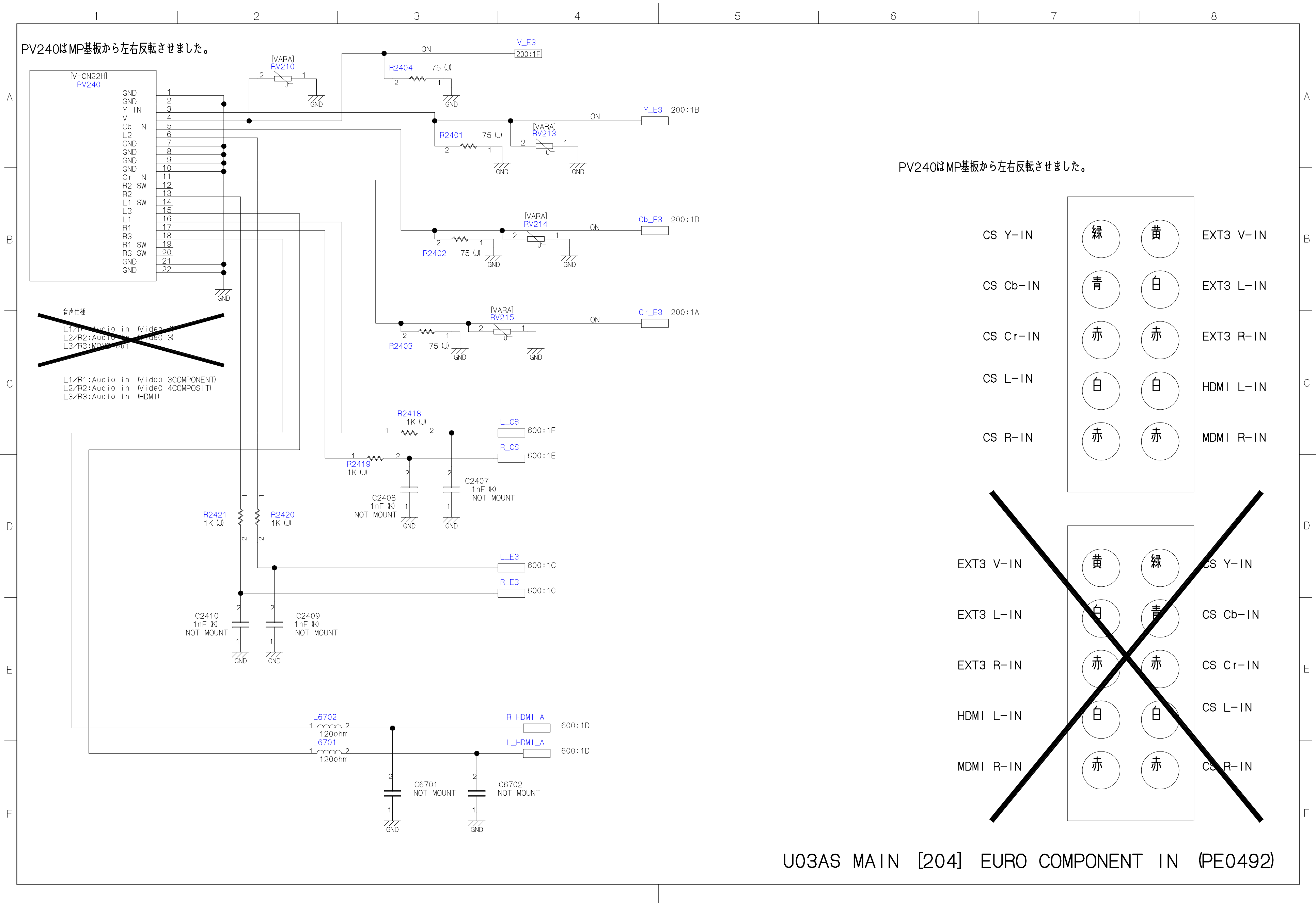
U03AS MAIN [117] SBD REGISTER (PE0492)

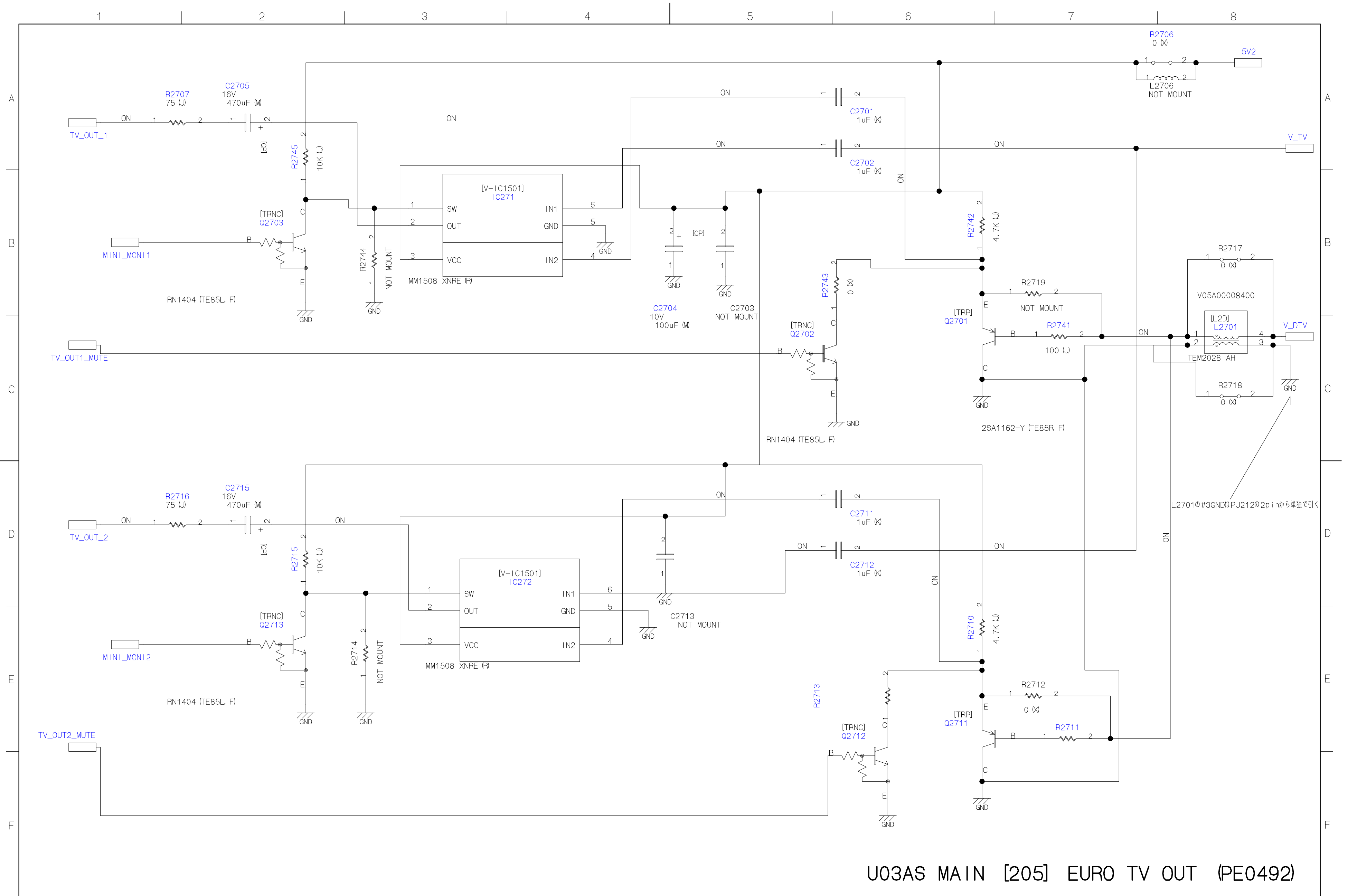


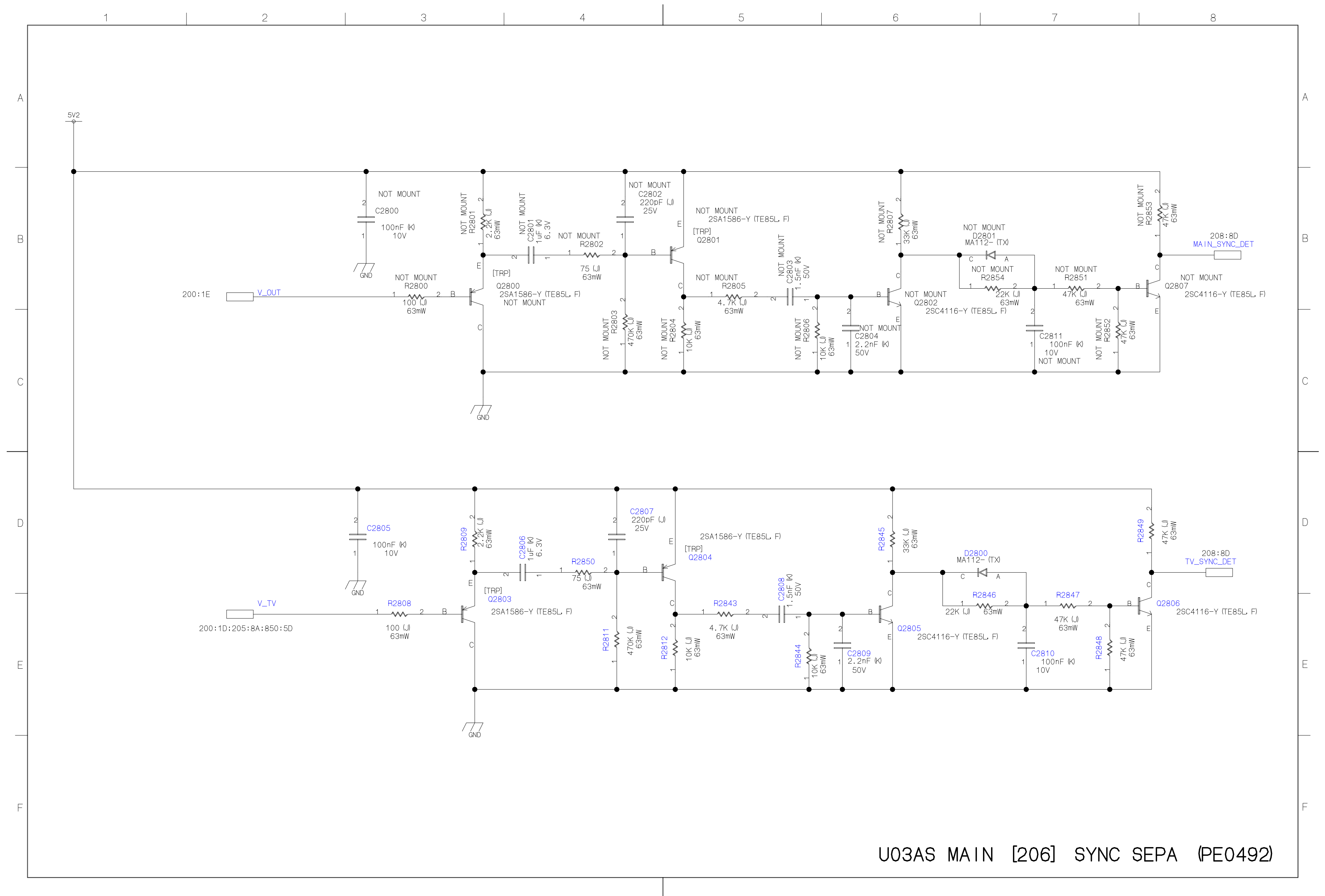


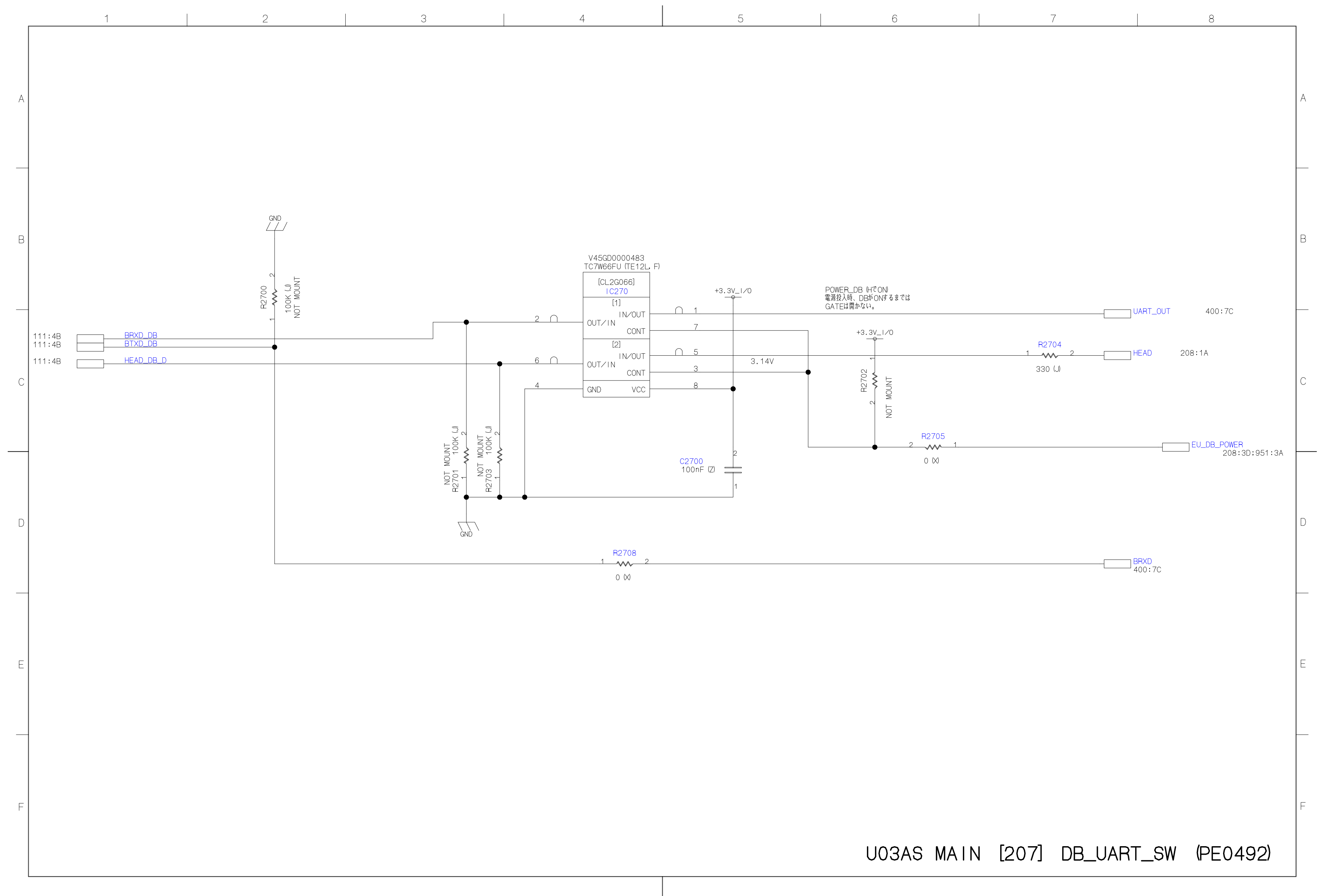


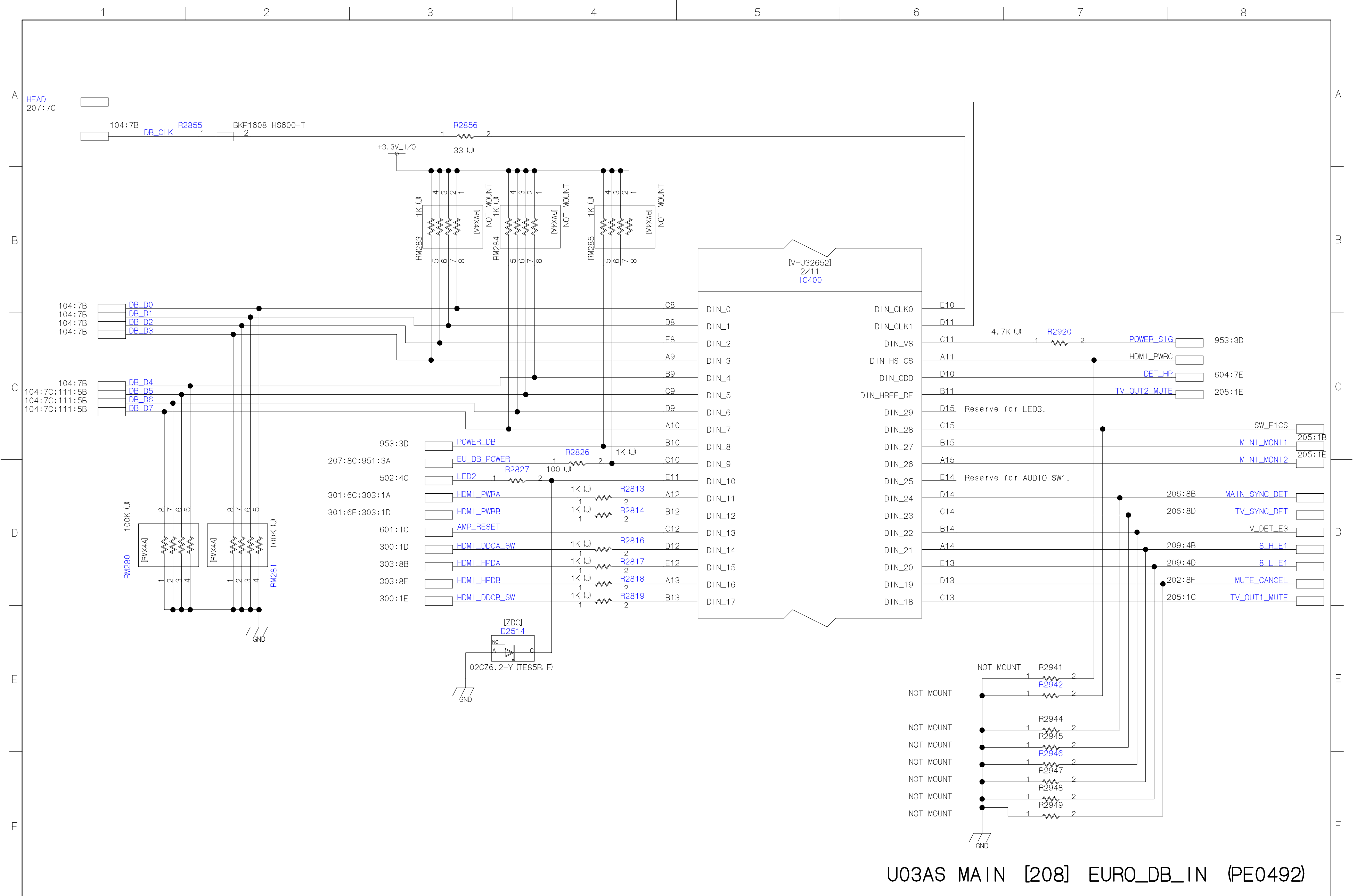


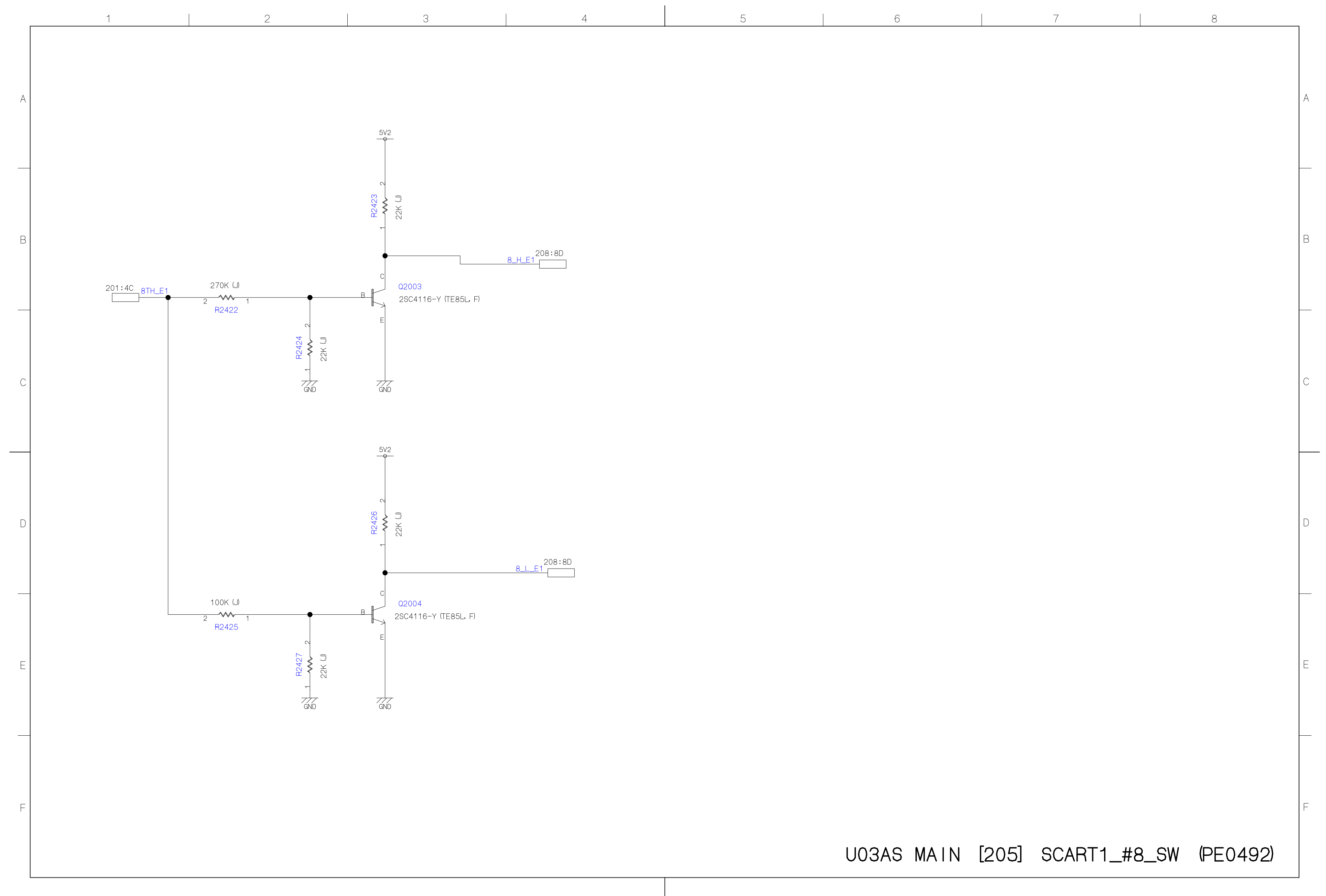




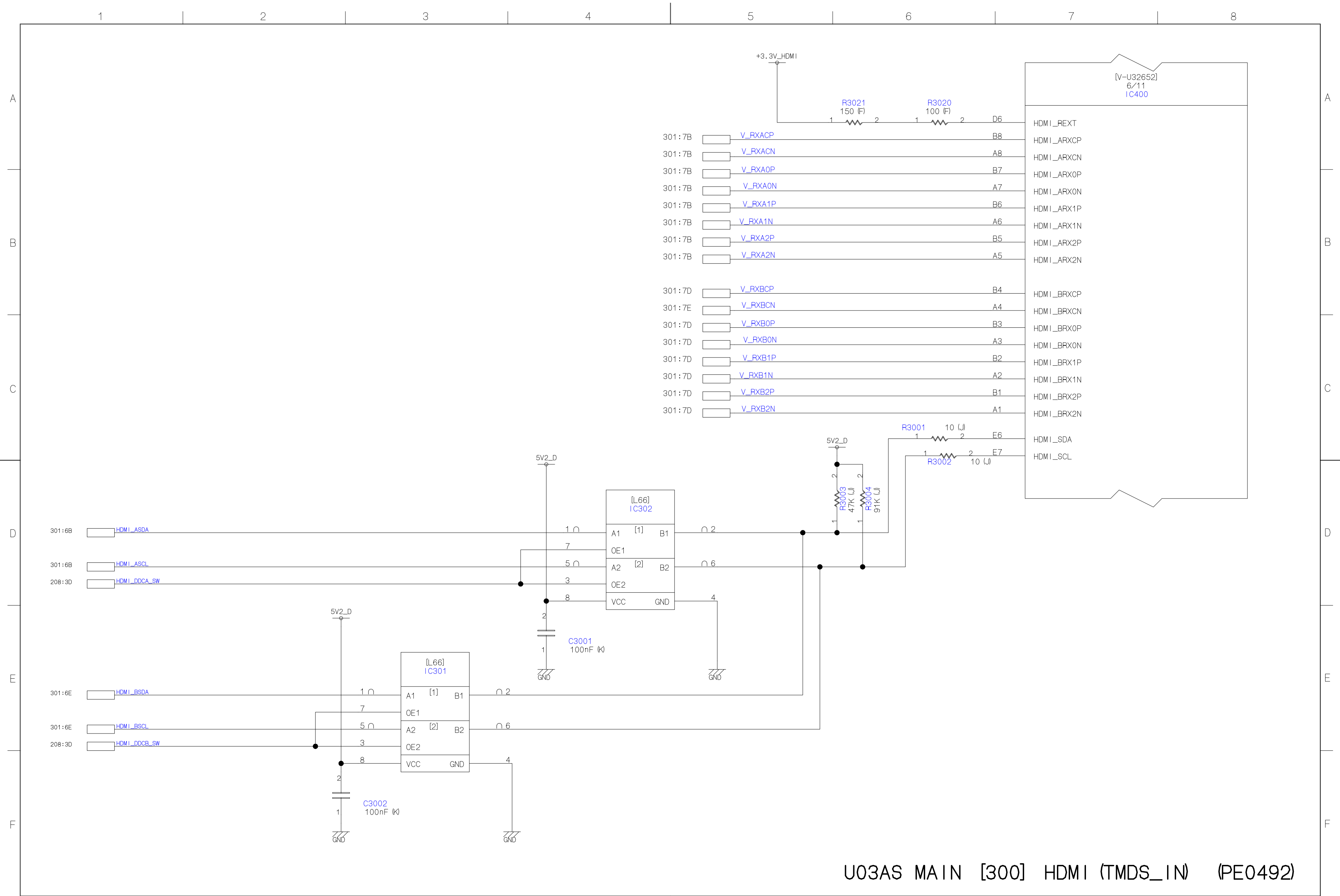


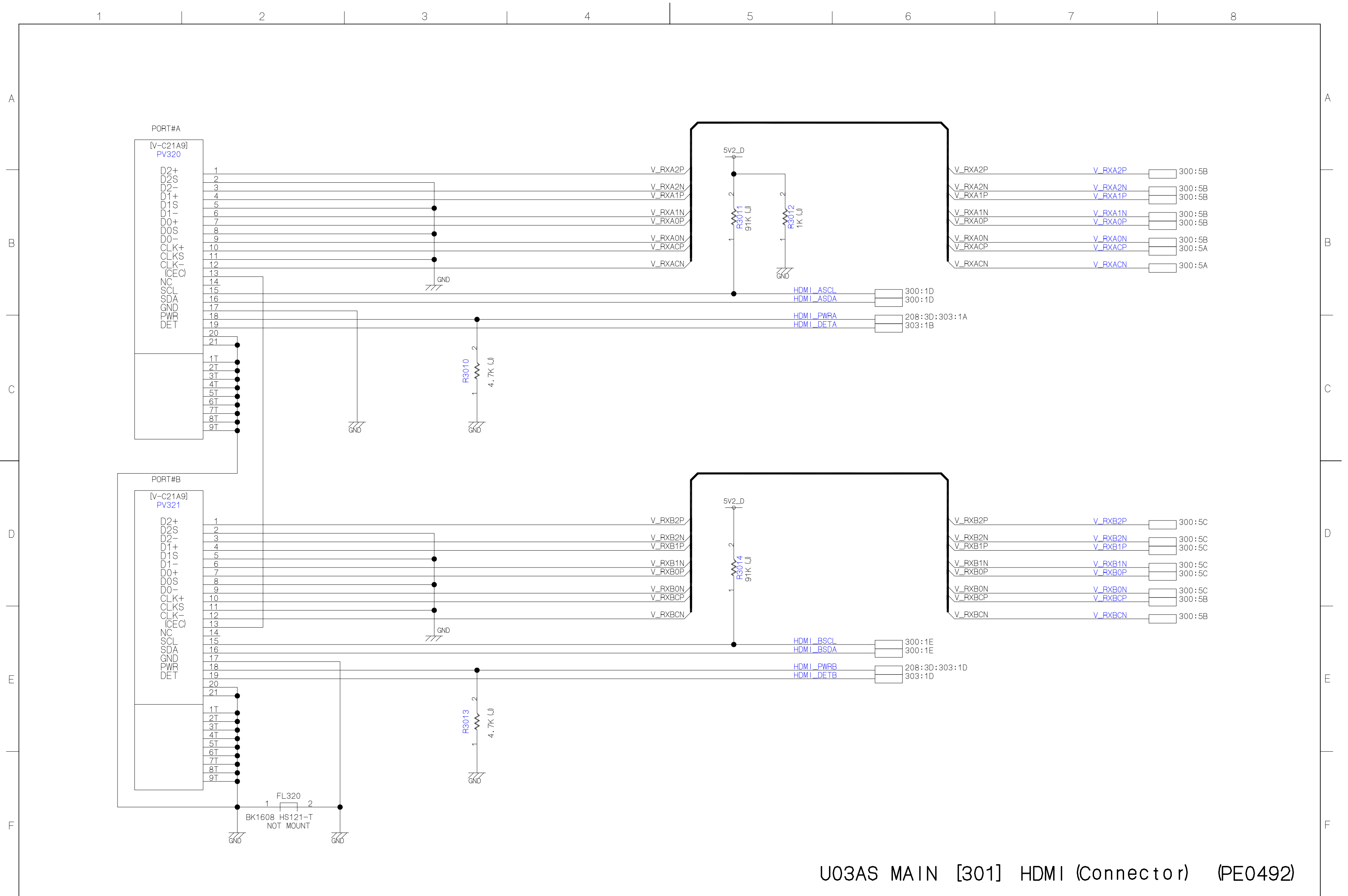


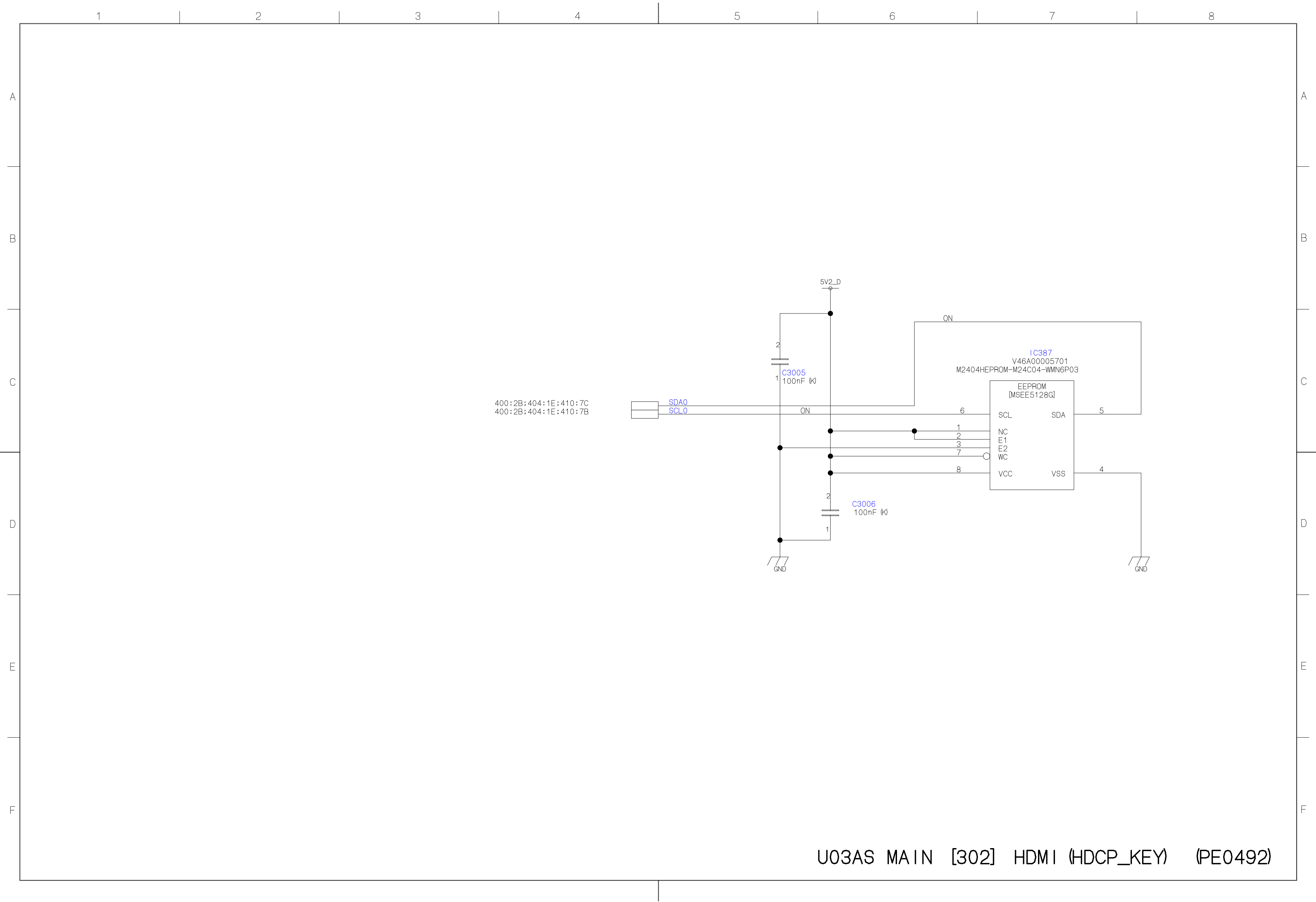


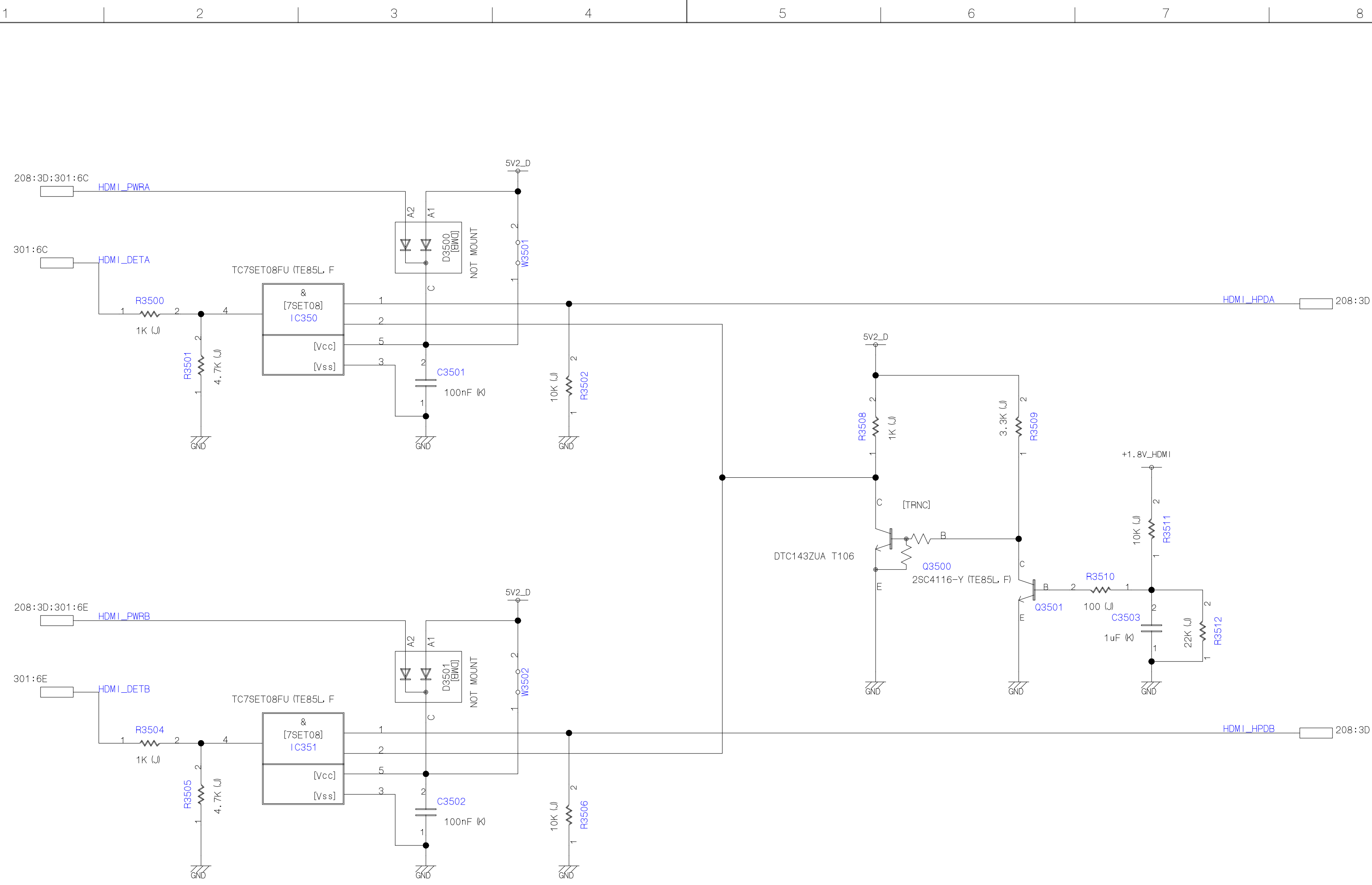


U03AS MAIN [205] SCART1_#8_SW (PE0492)

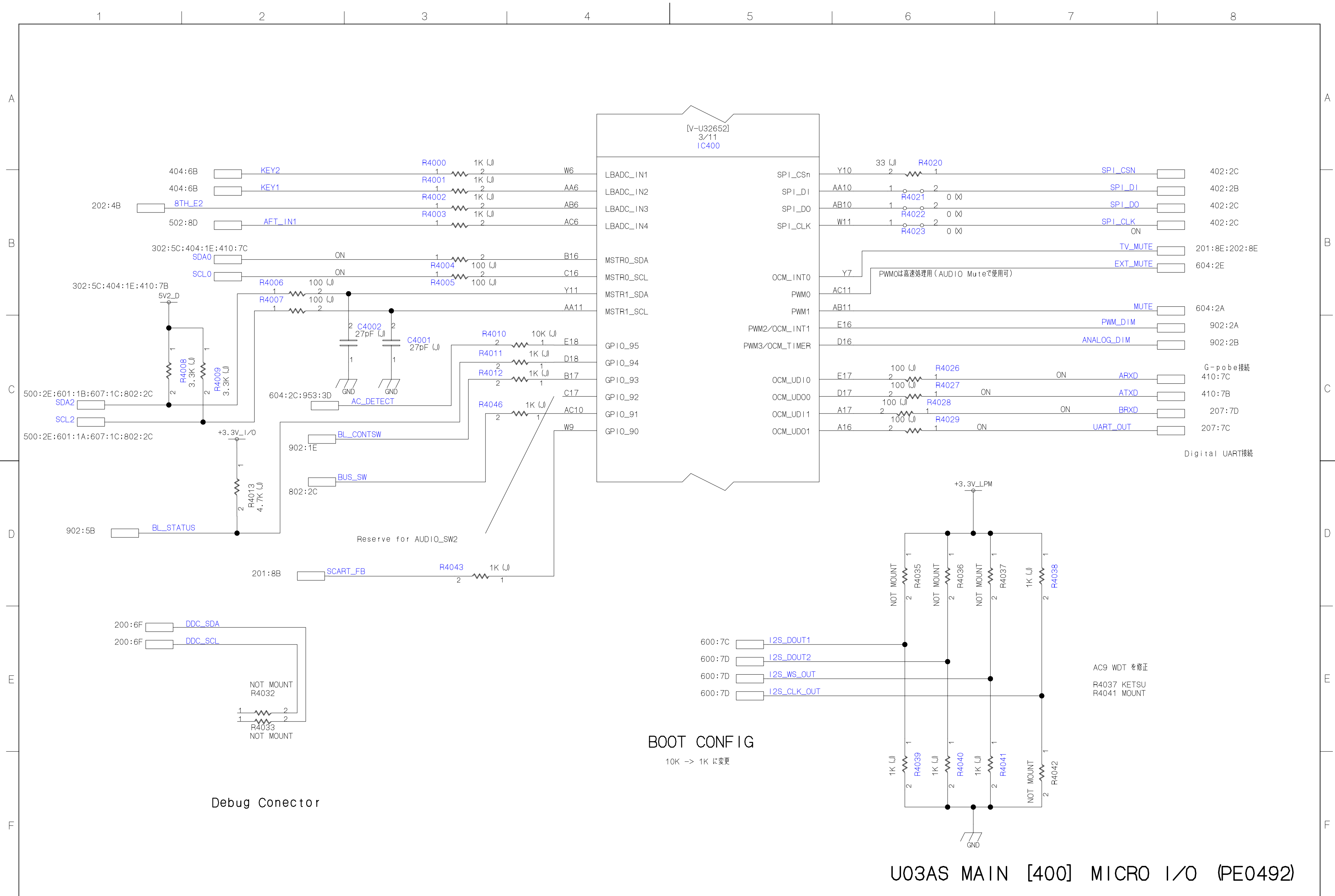








U03AS MAIN [303] HDMI (HPD) (PE0492)



1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

C

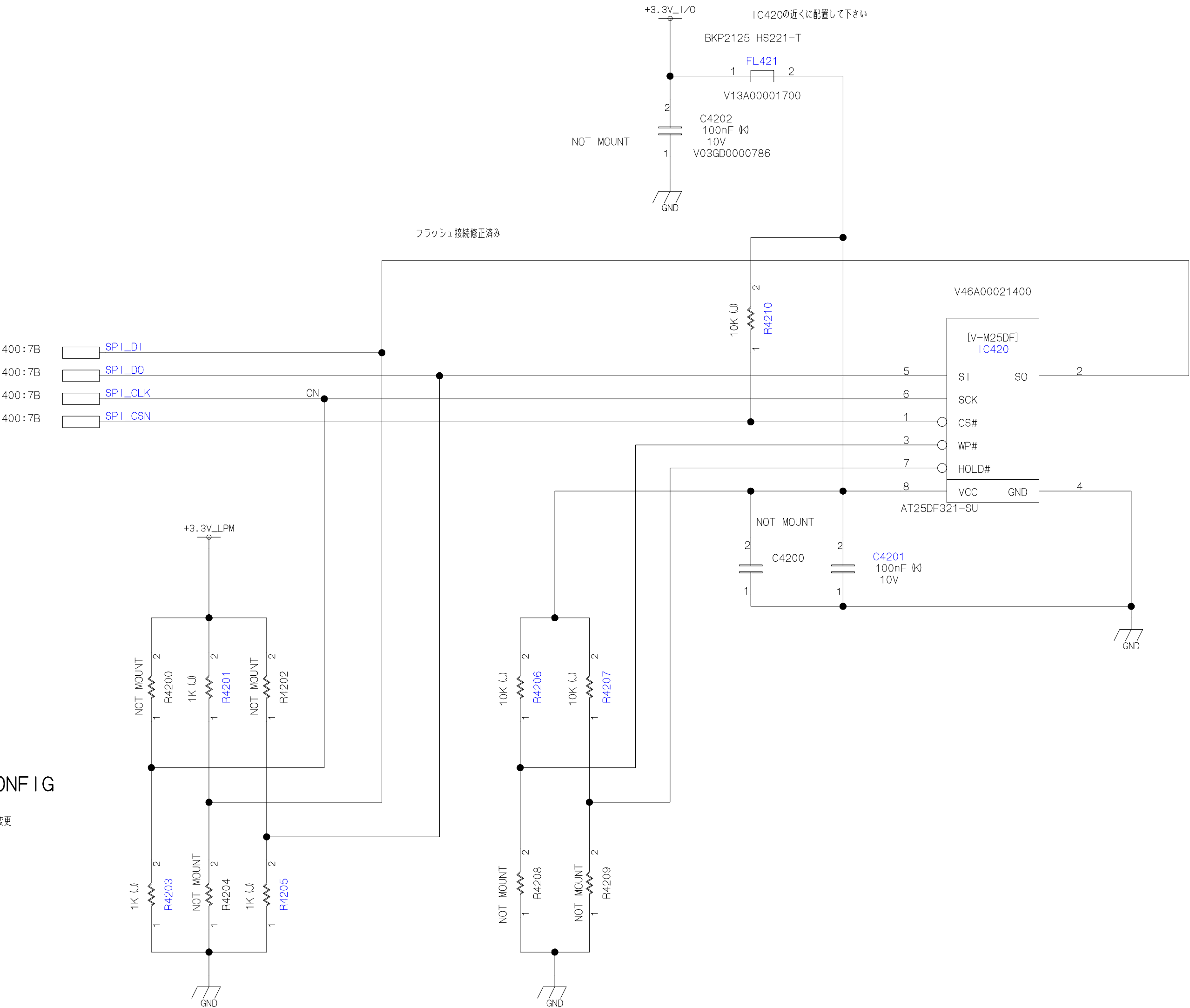
D

E

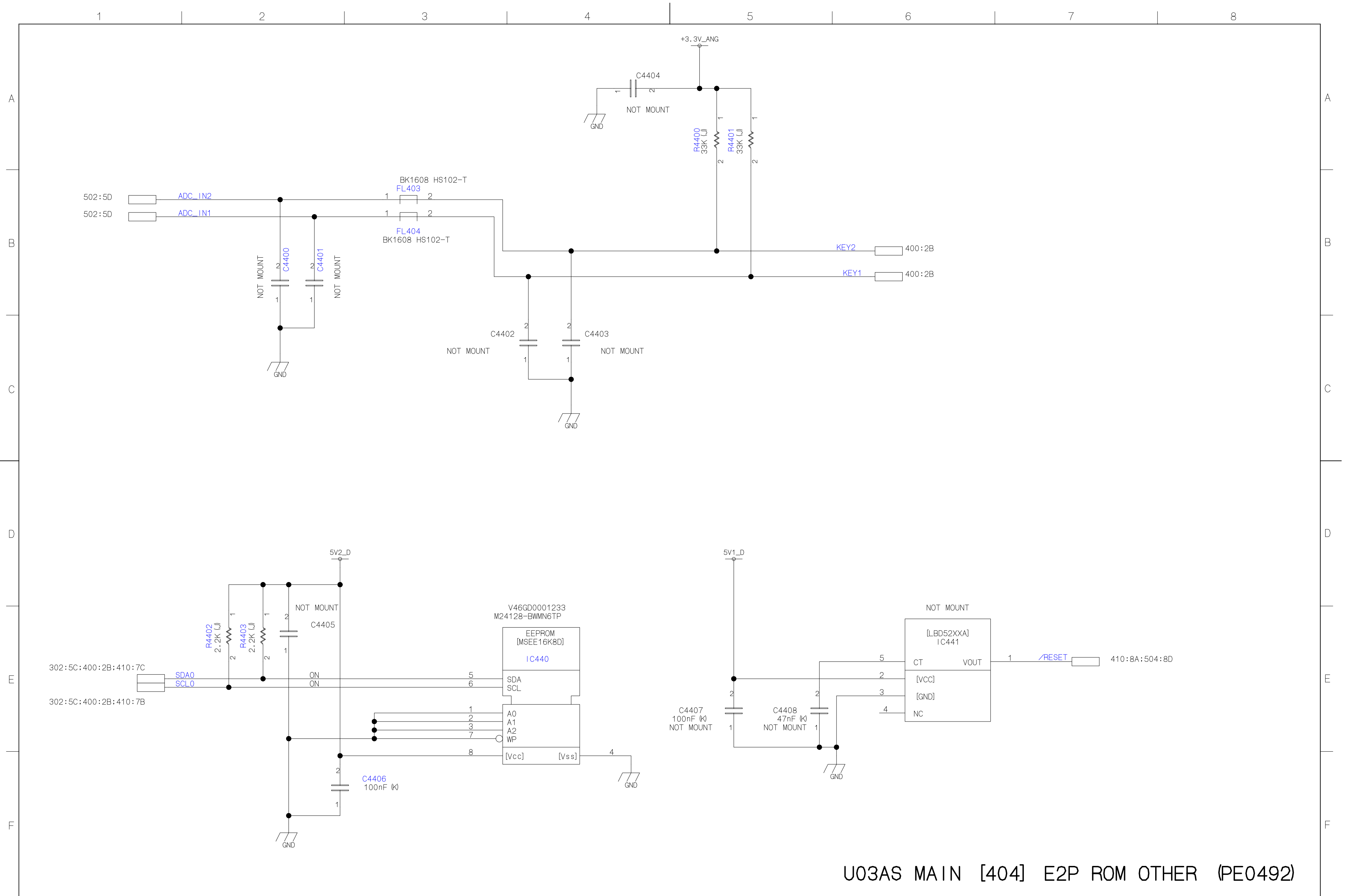
F

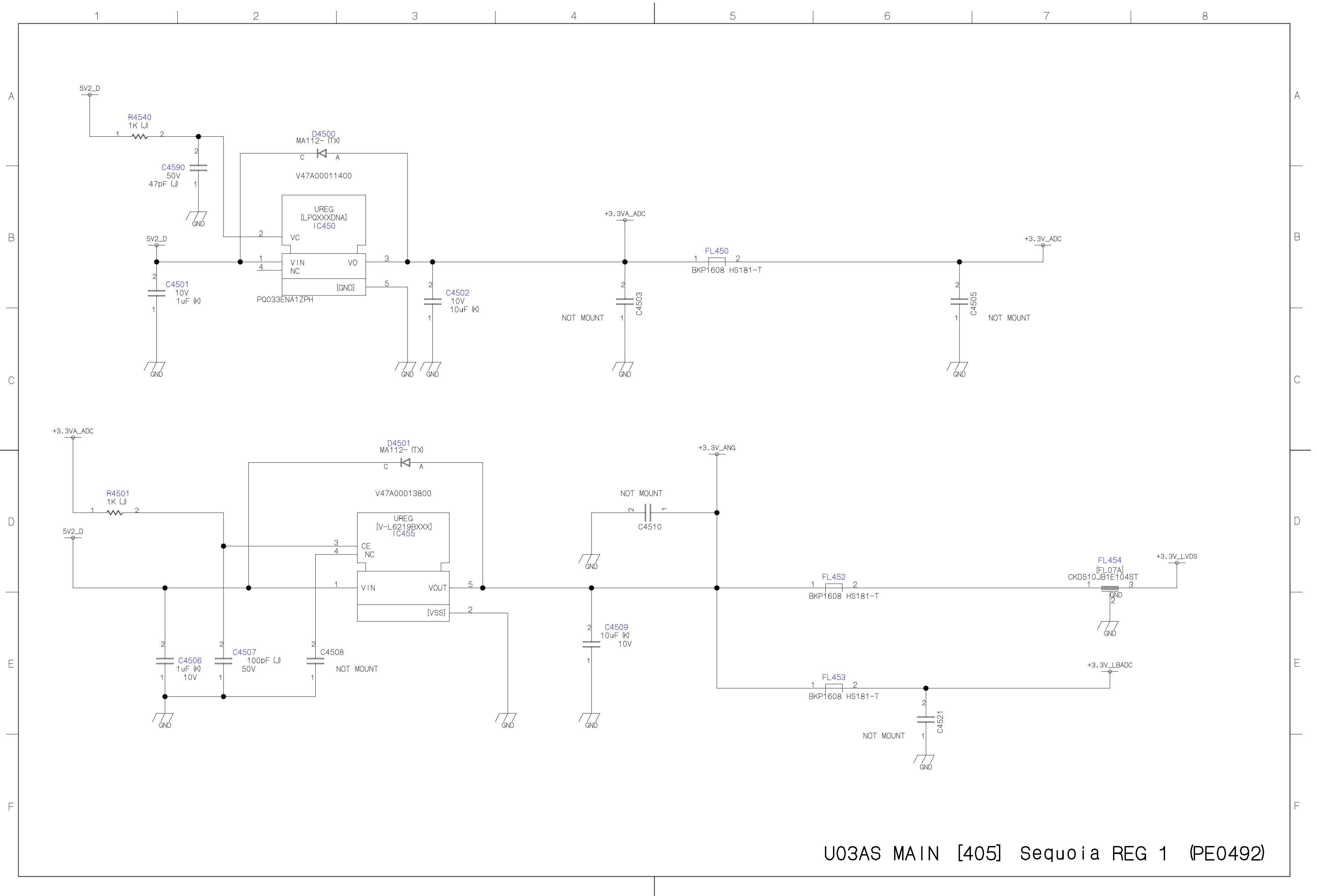
BOOT CONFIG

10K -> 1K 変更
AA10 修正

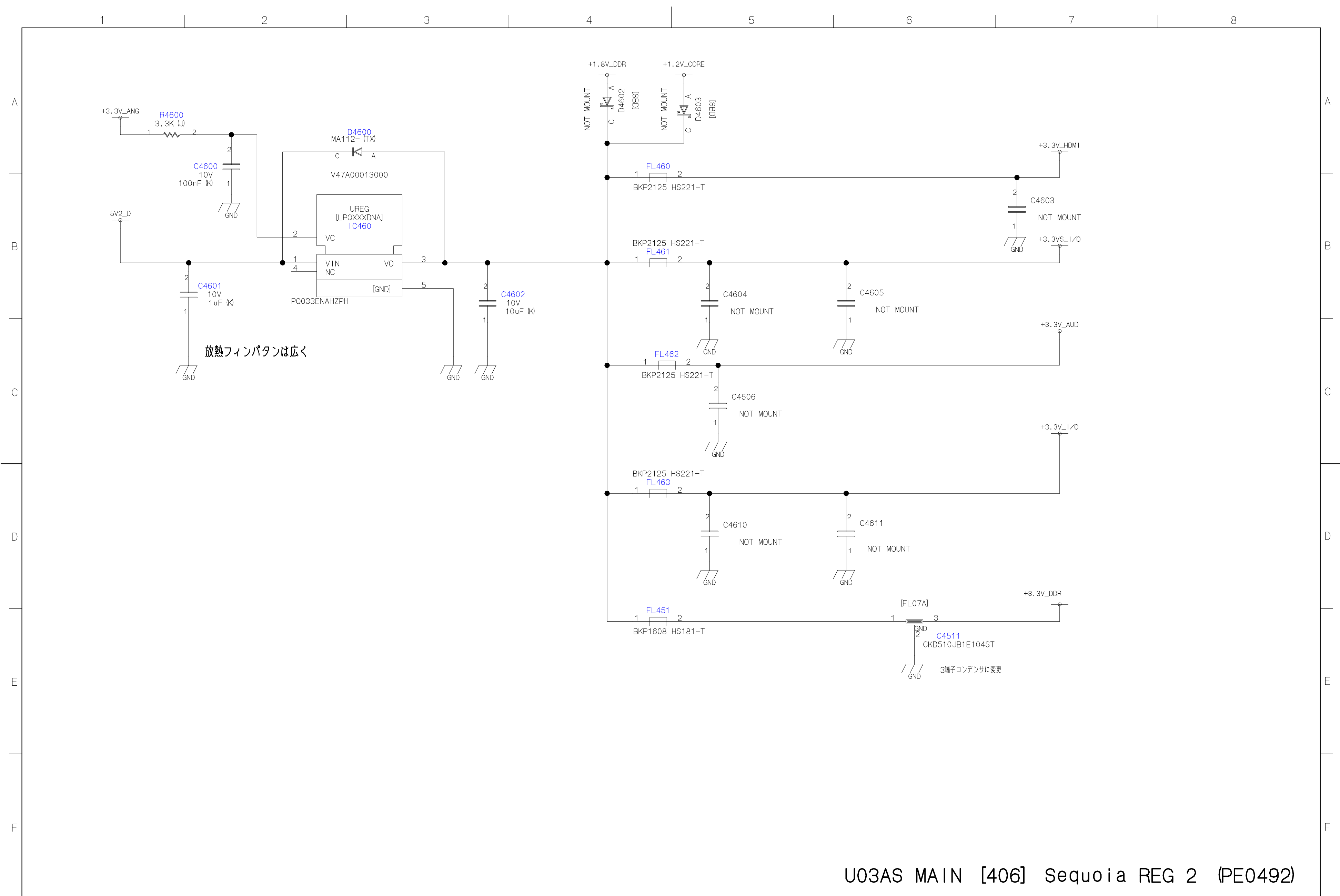


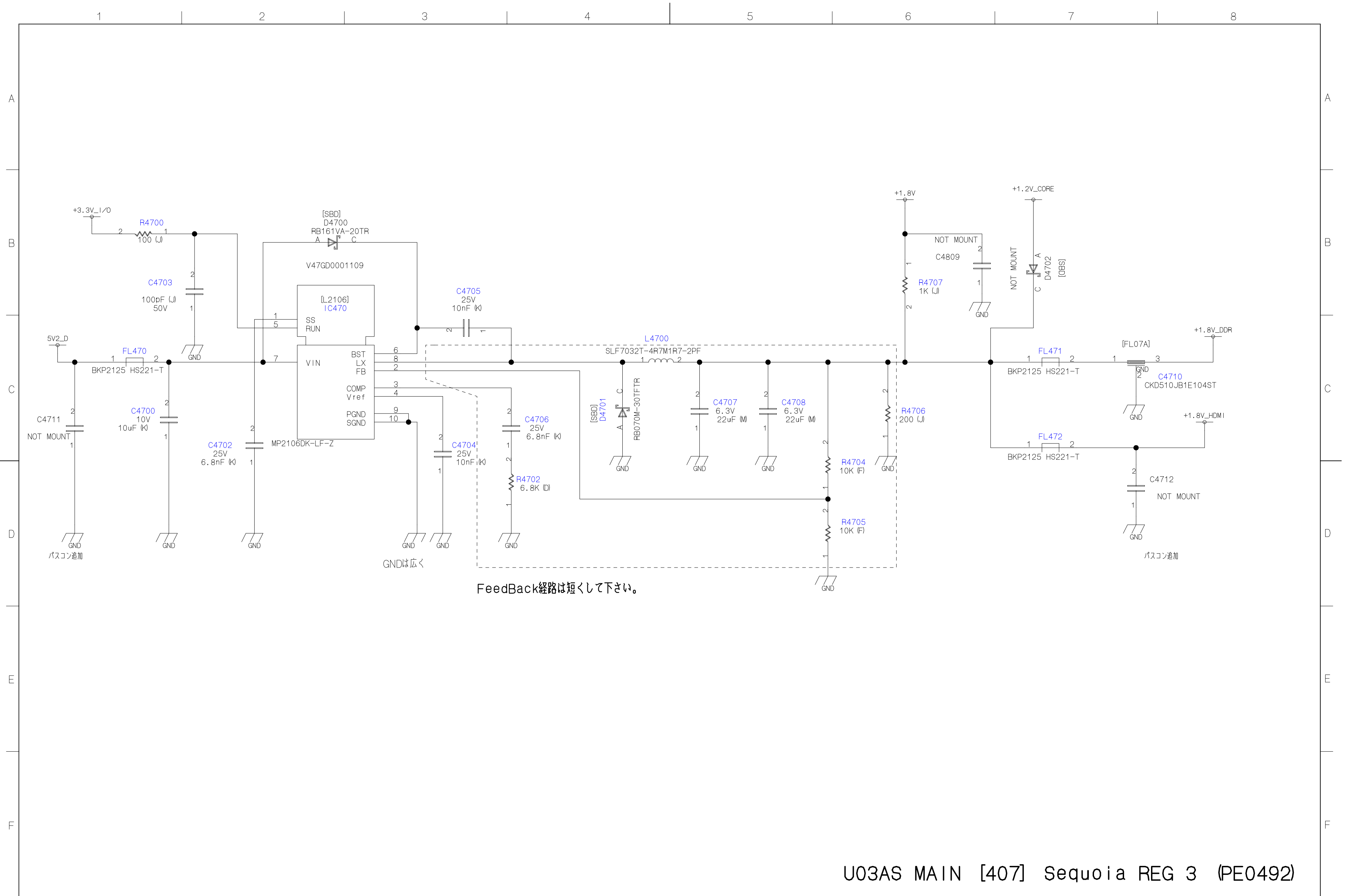
U03AS MAIN [402] FLASH MEMORY (PE0492)

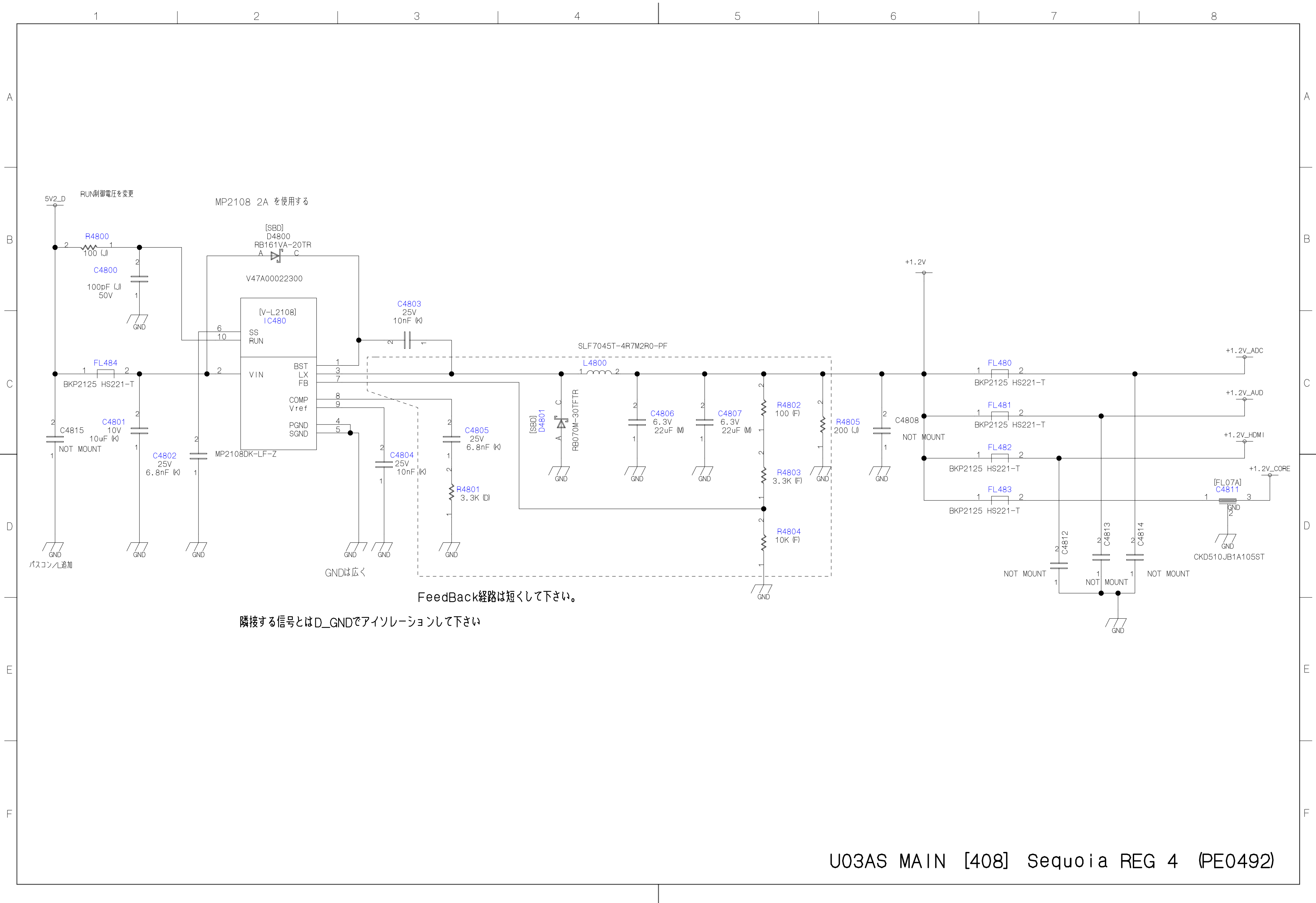




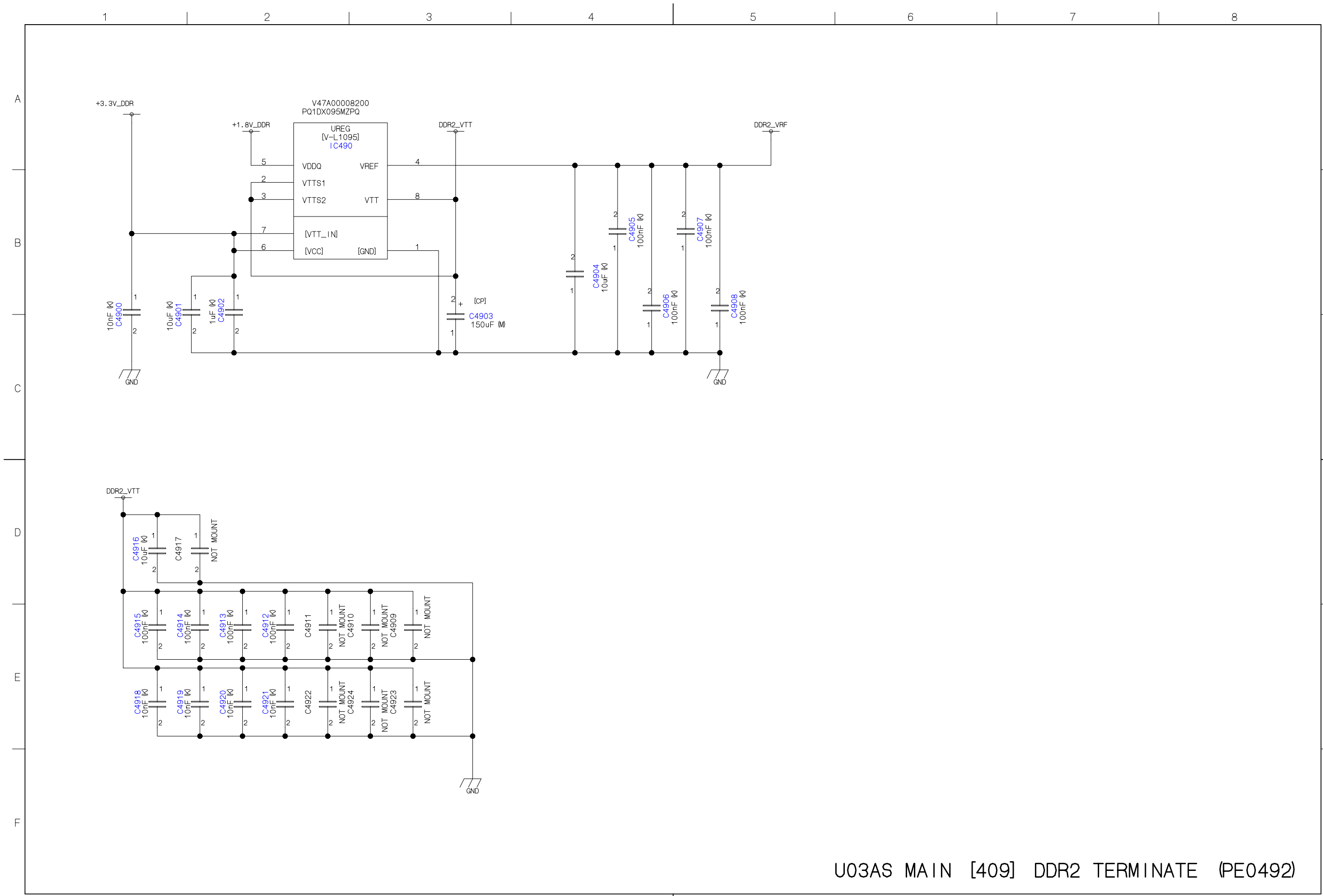
U03AS MAIN [405] Sequoia REG 1 (PE0492)



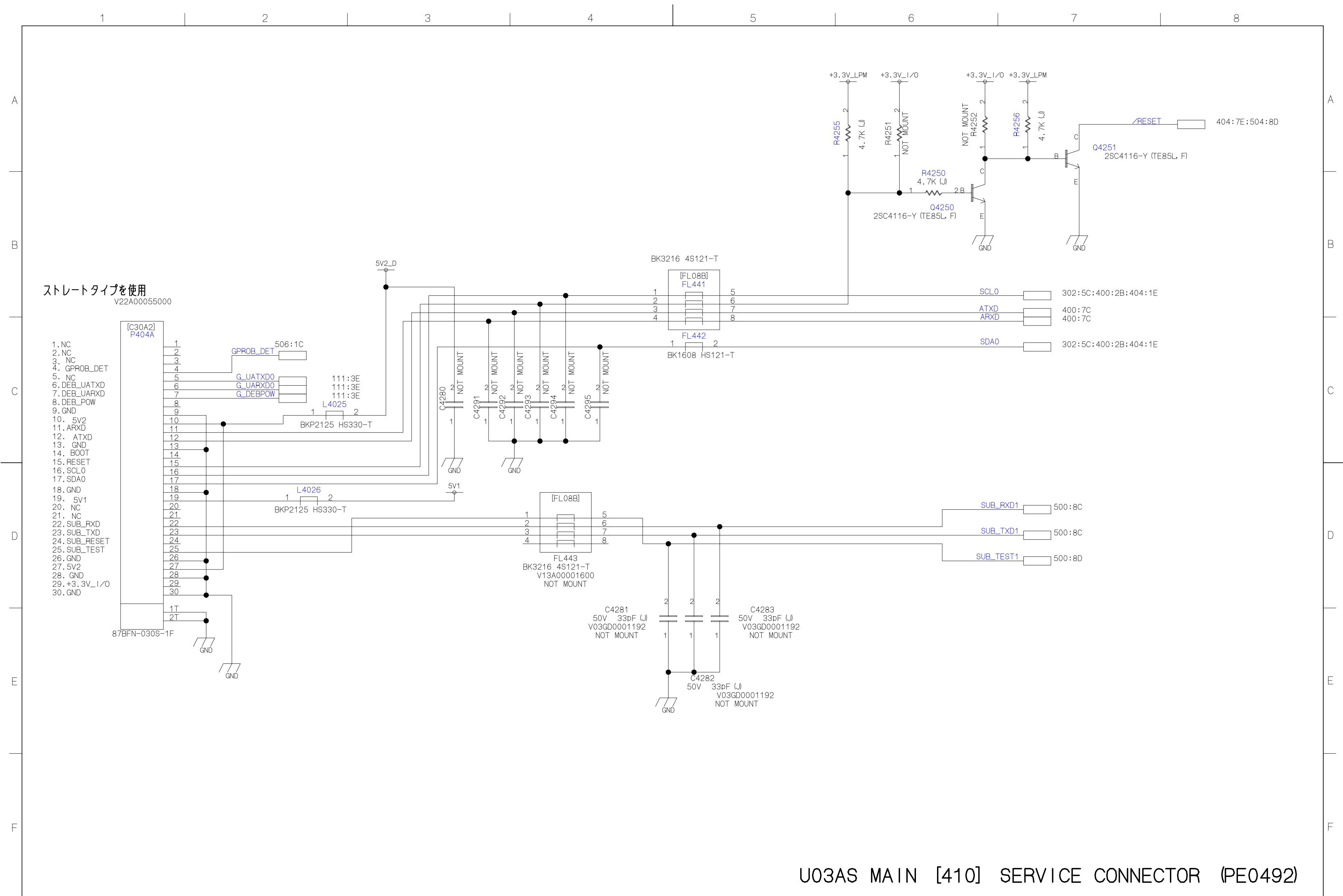


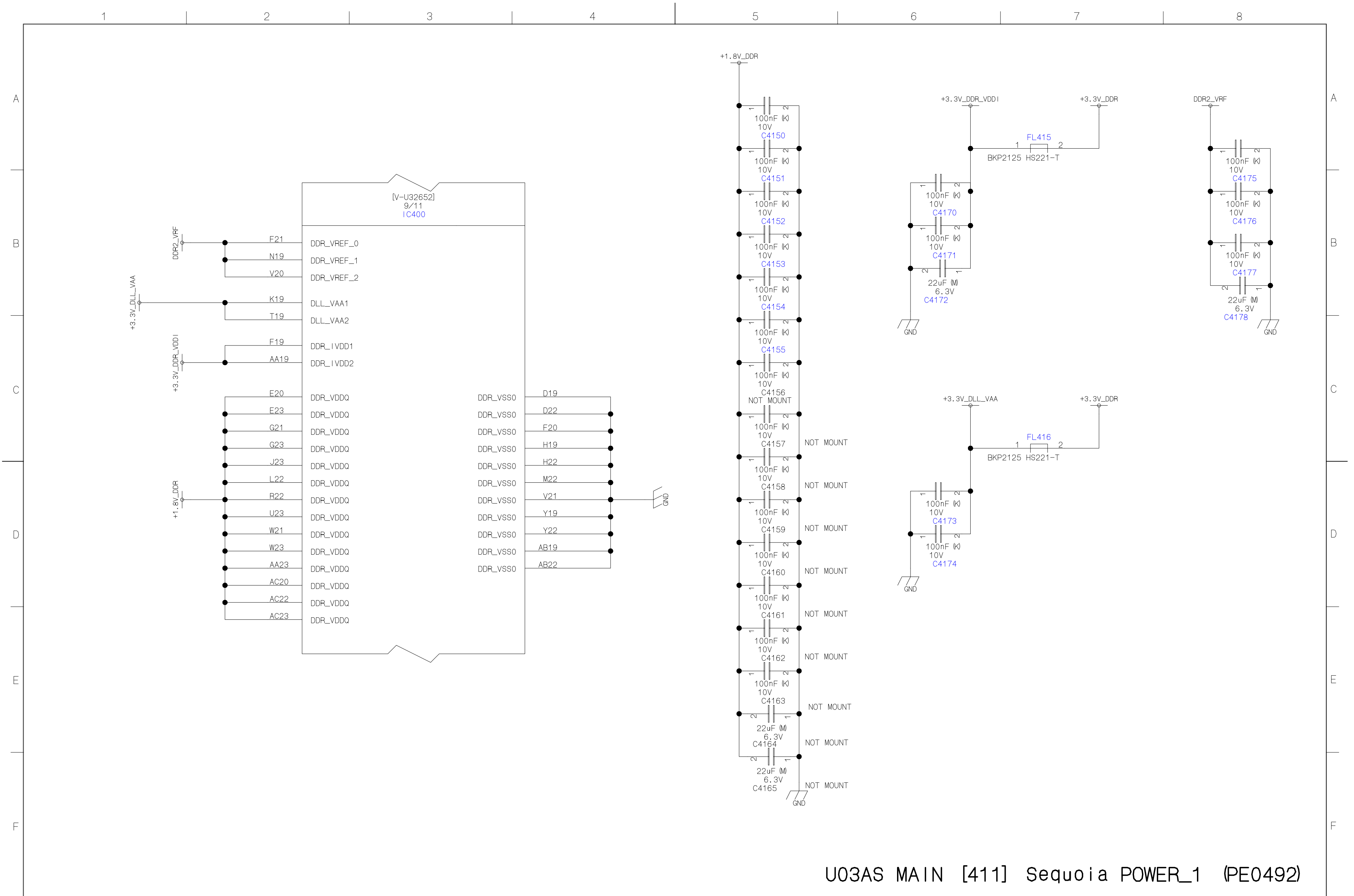


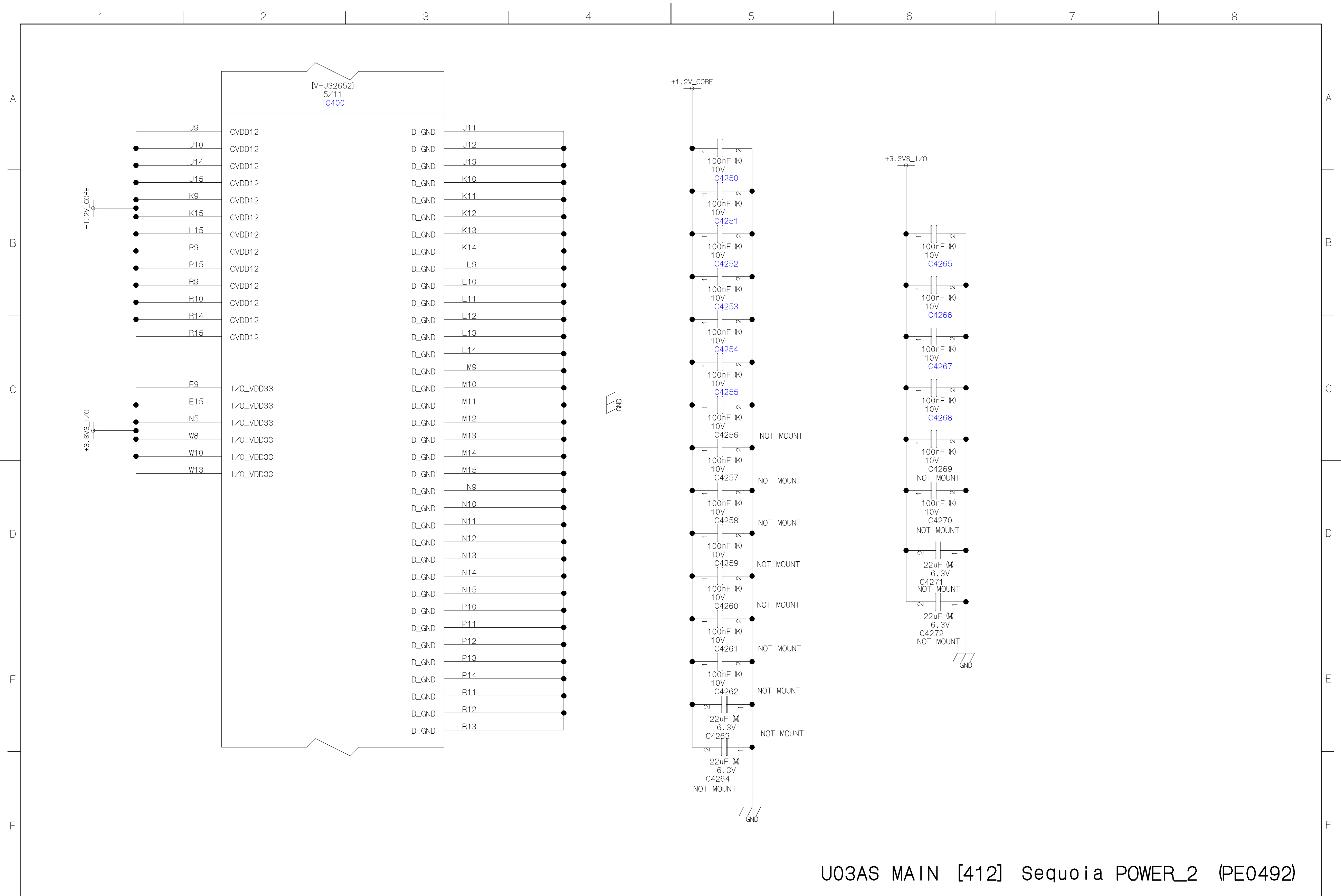
U03AS MAIN [408] Sequoia REG 4 (PE0492)

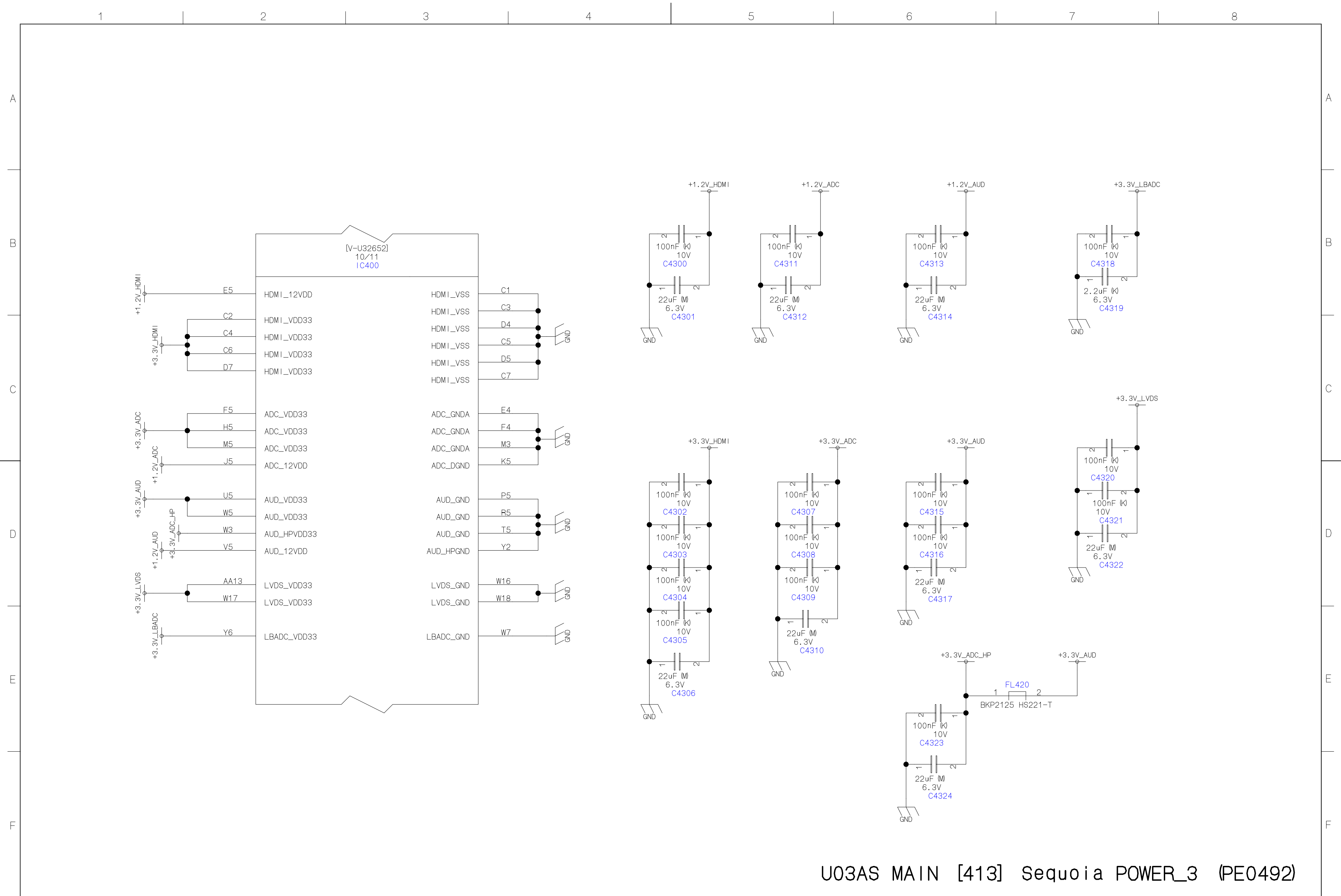


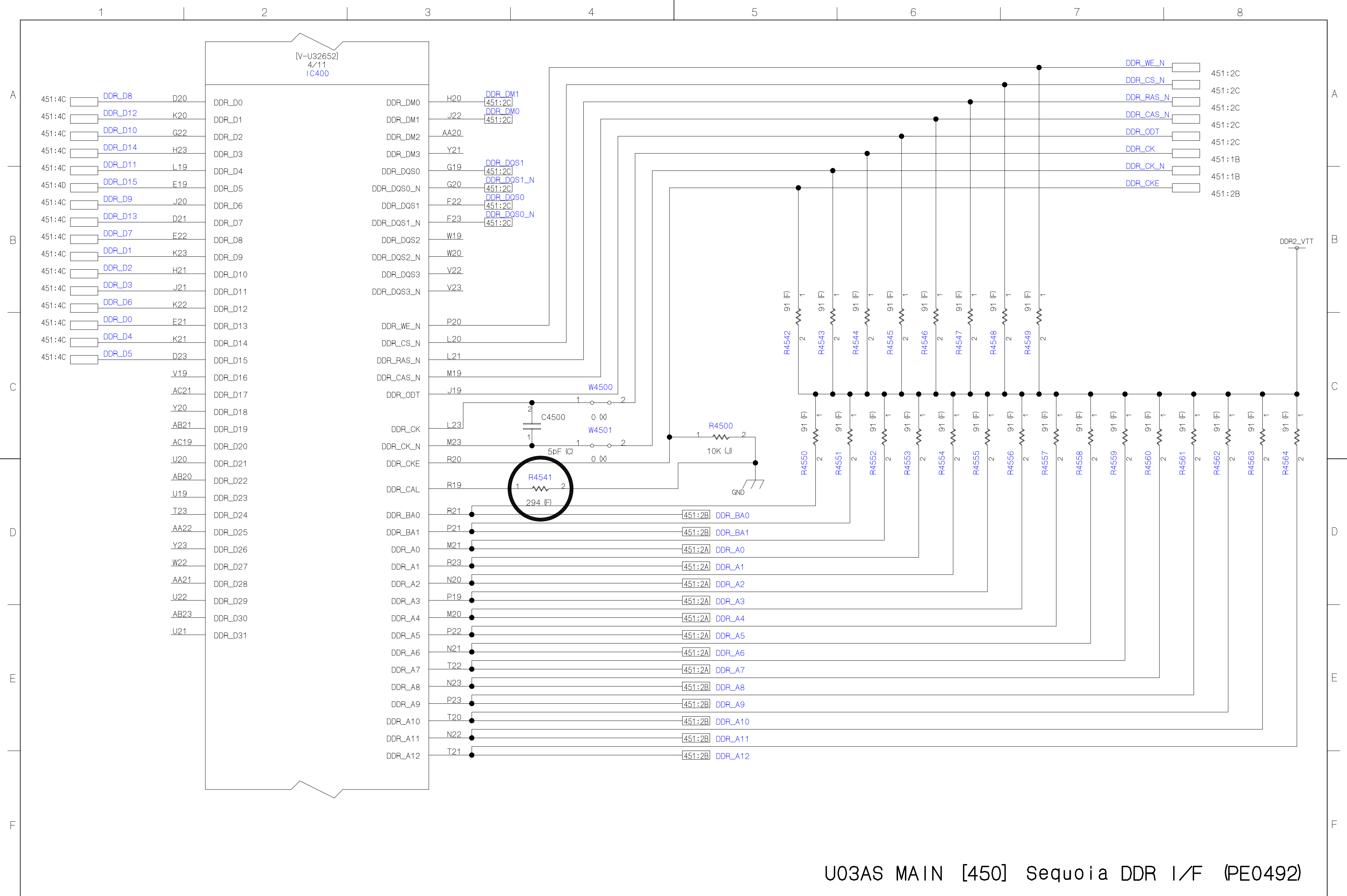
U03AS MAIN [409] DDR2 TERMINATE (PE0492)

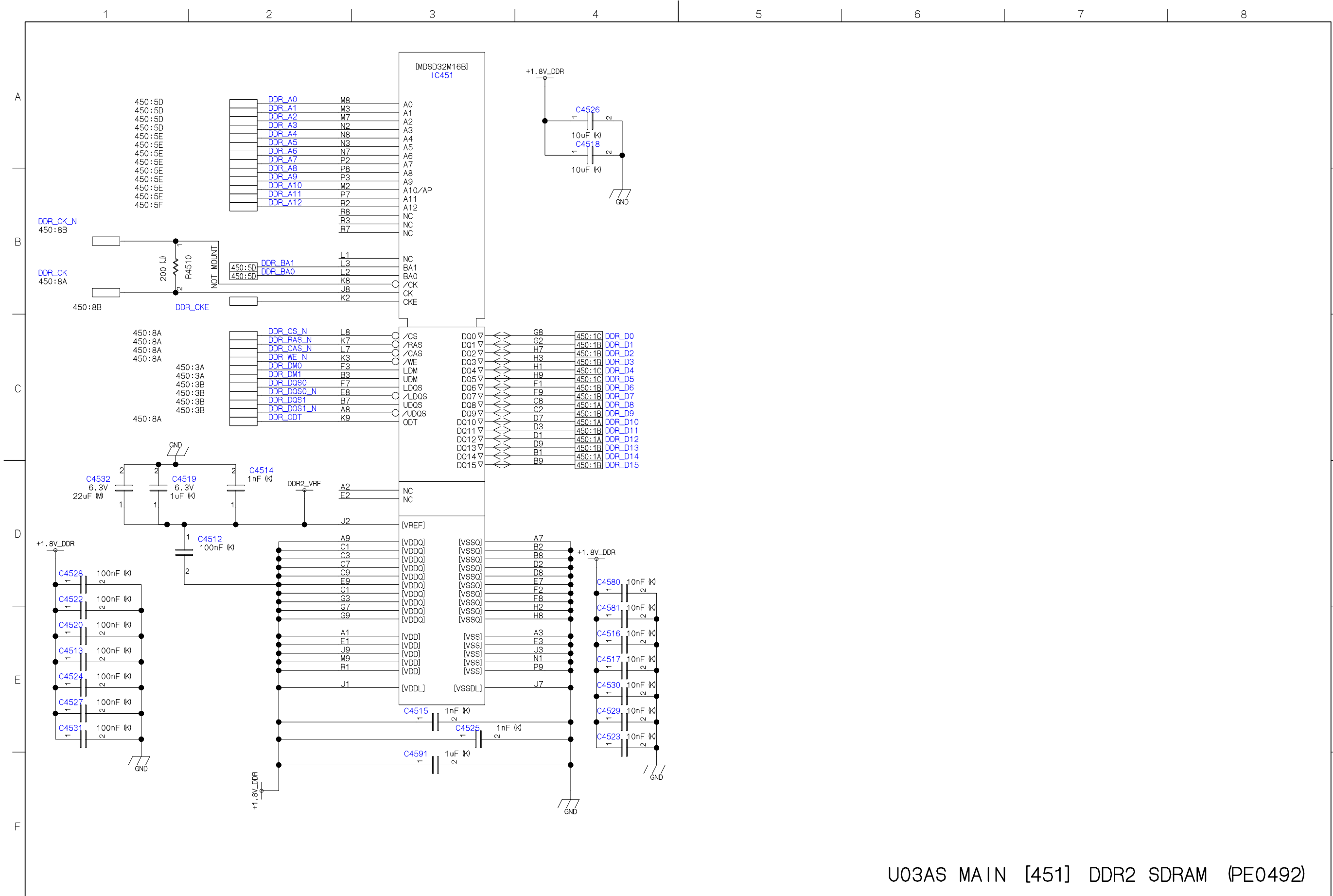


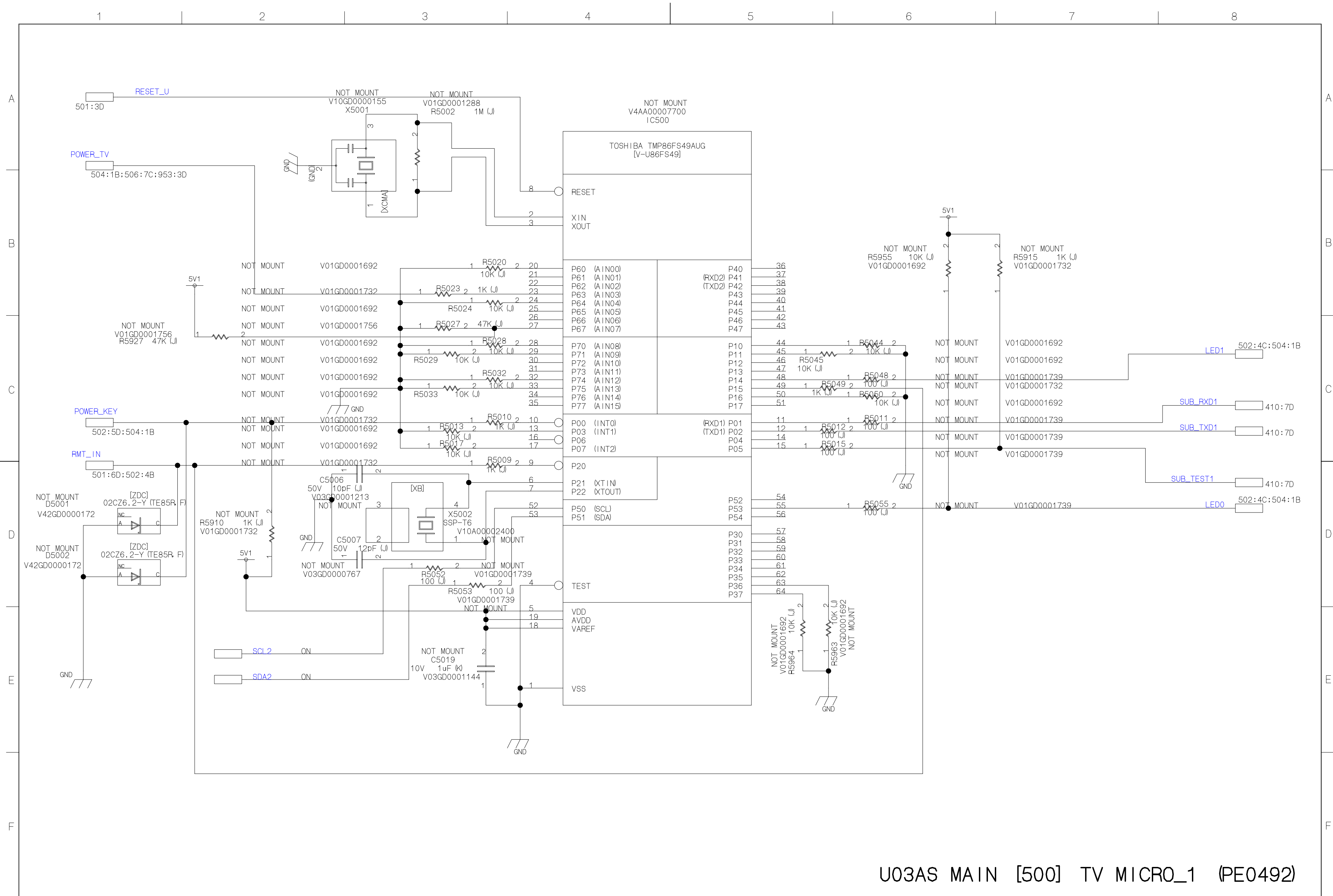


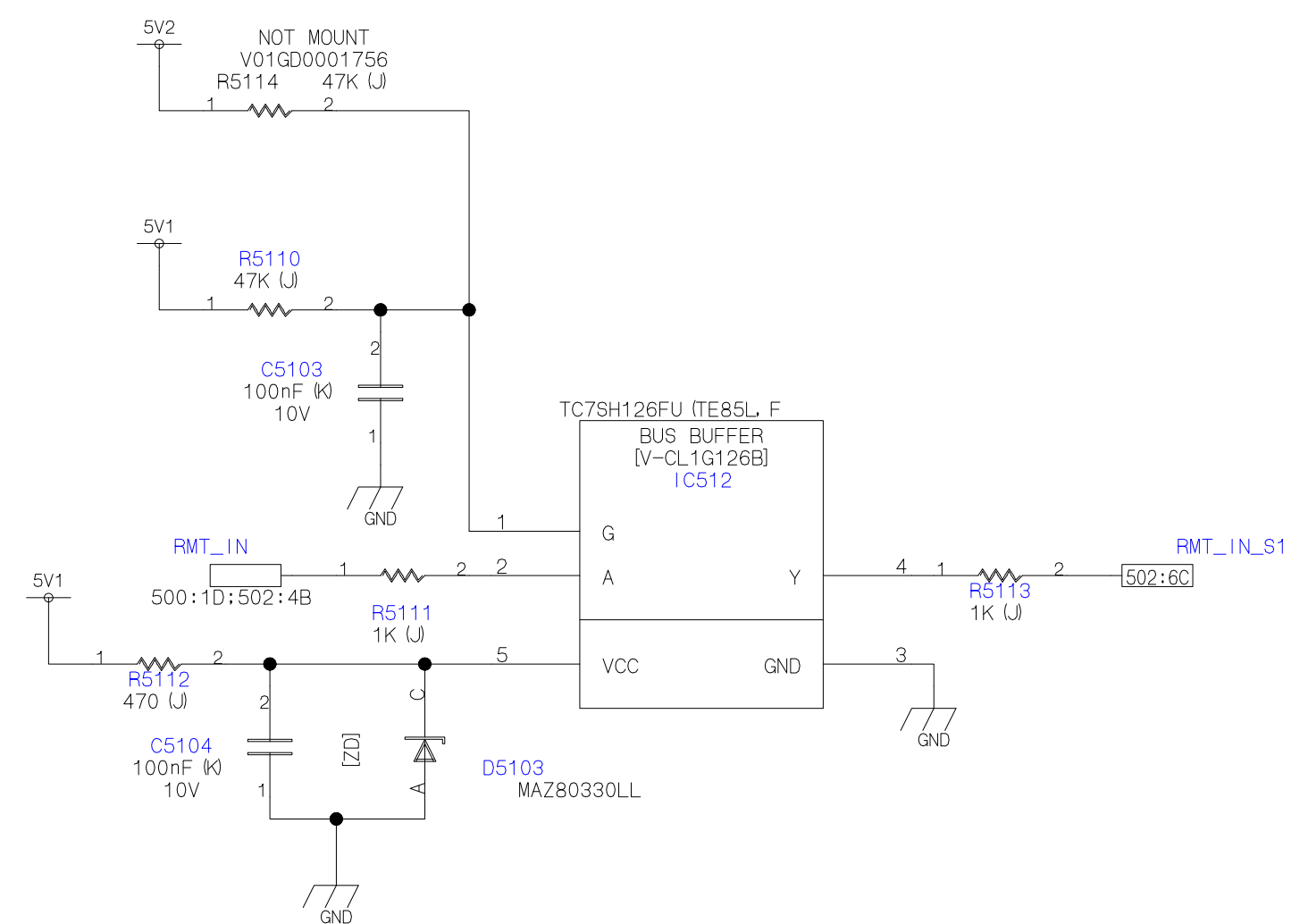




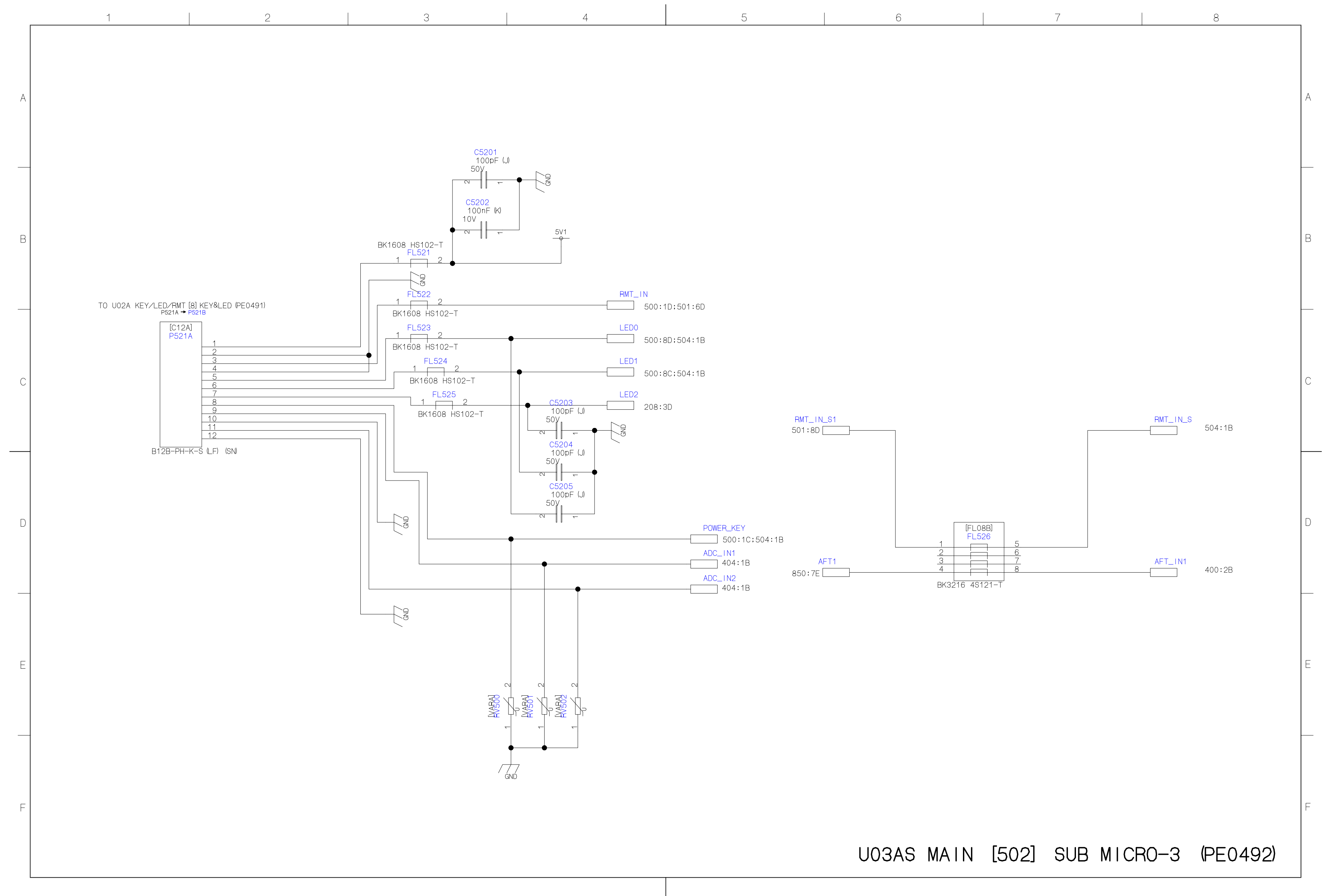


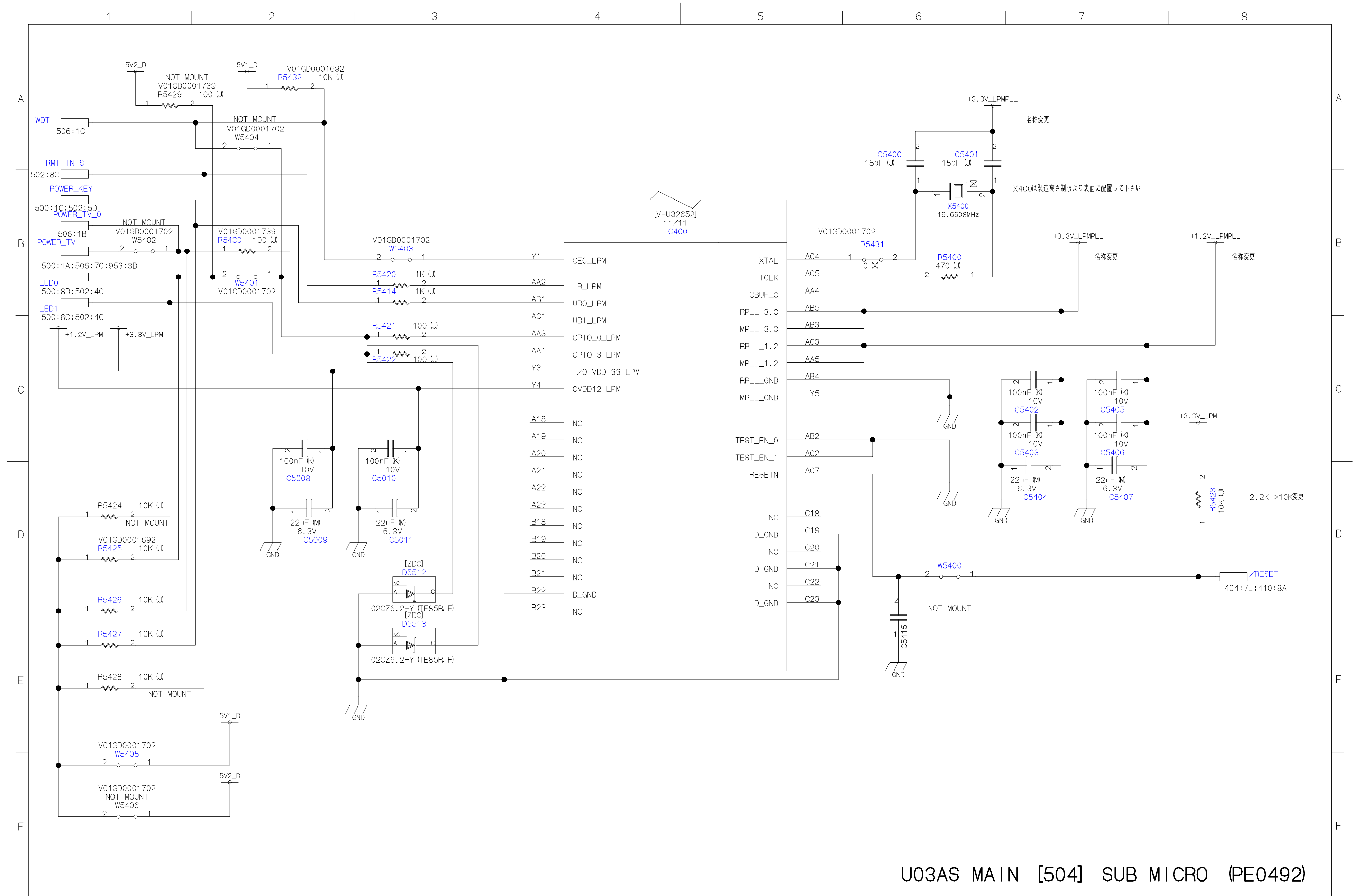


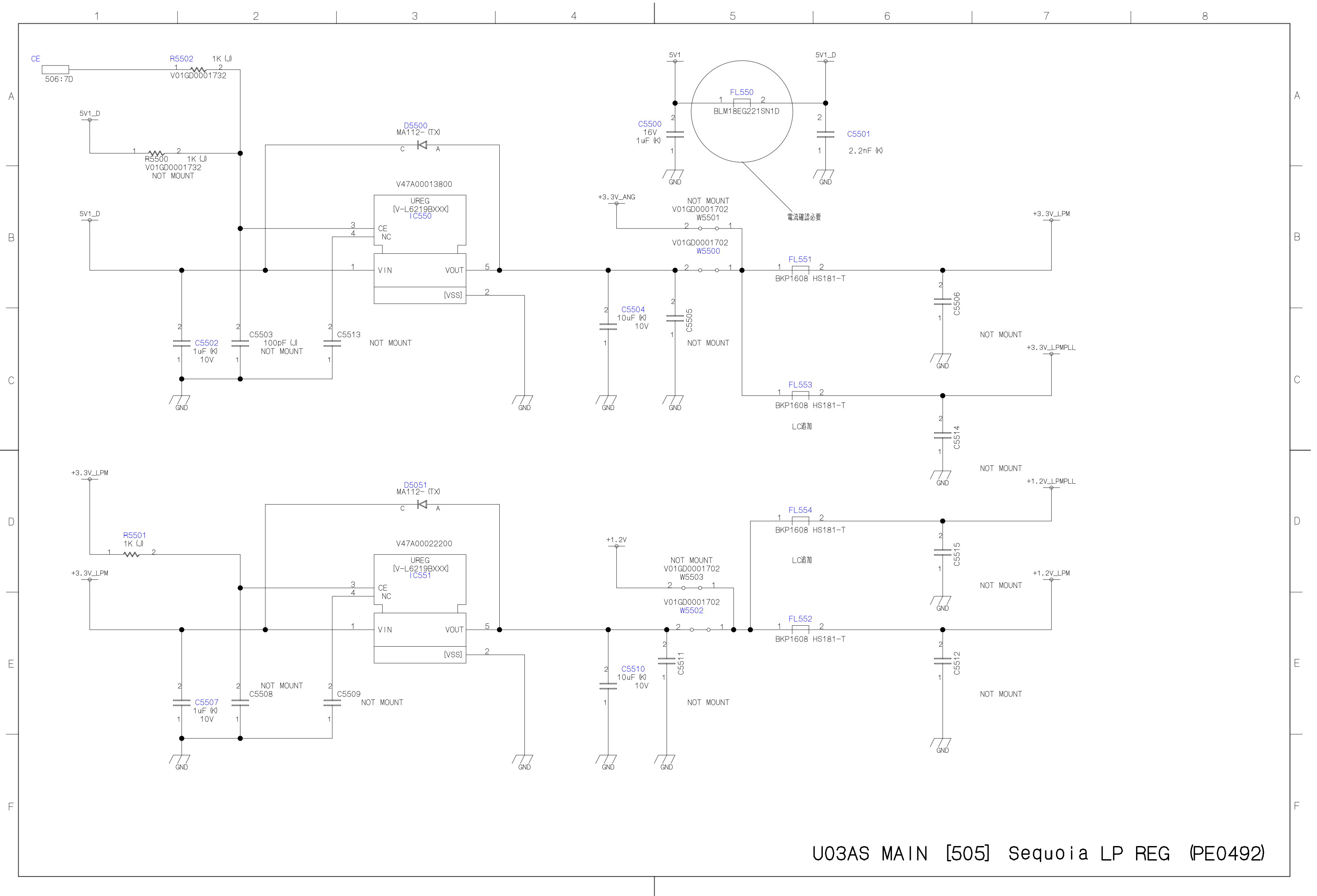




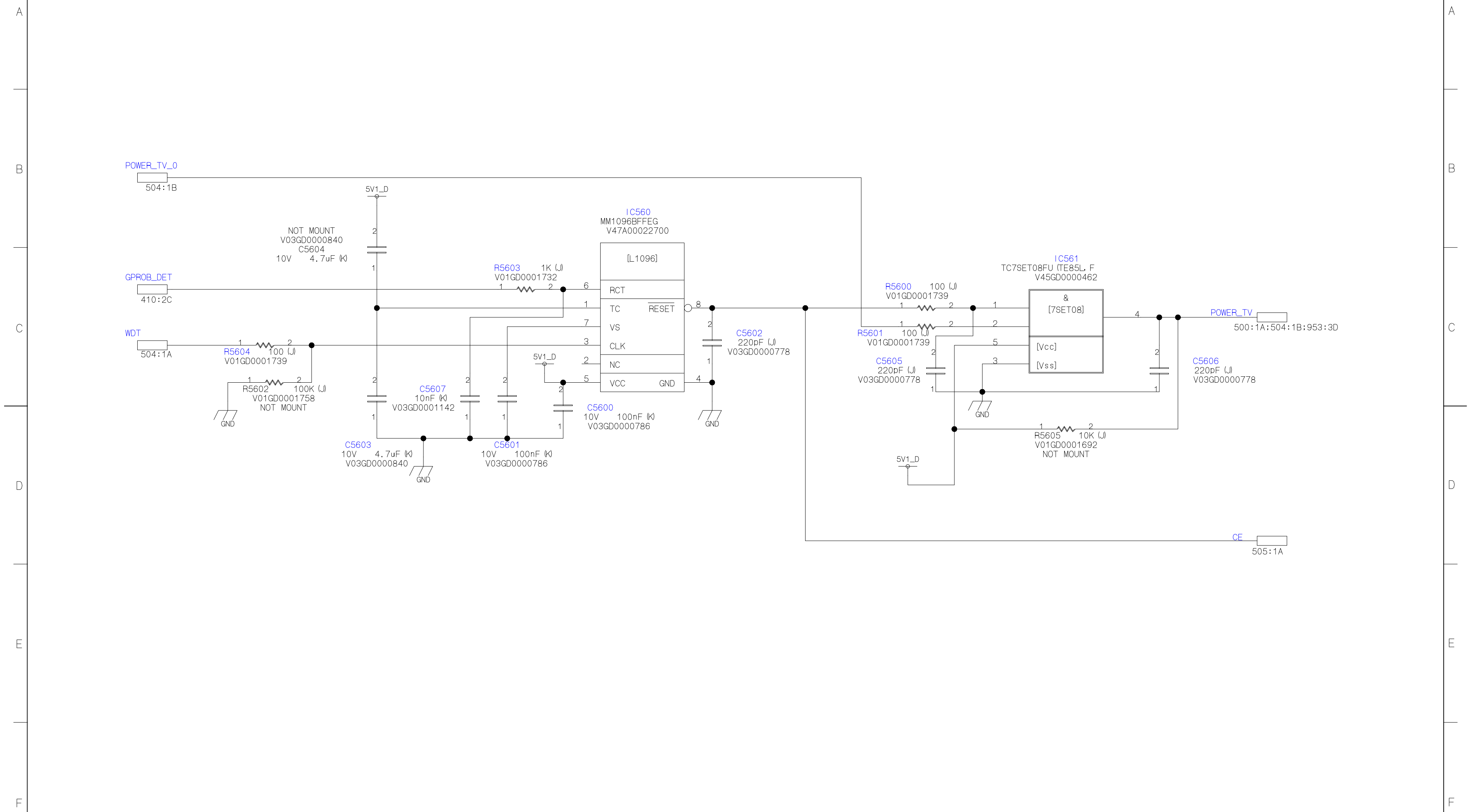
U03AS MAIN [501] SUB MICRO-2 (PE0492)



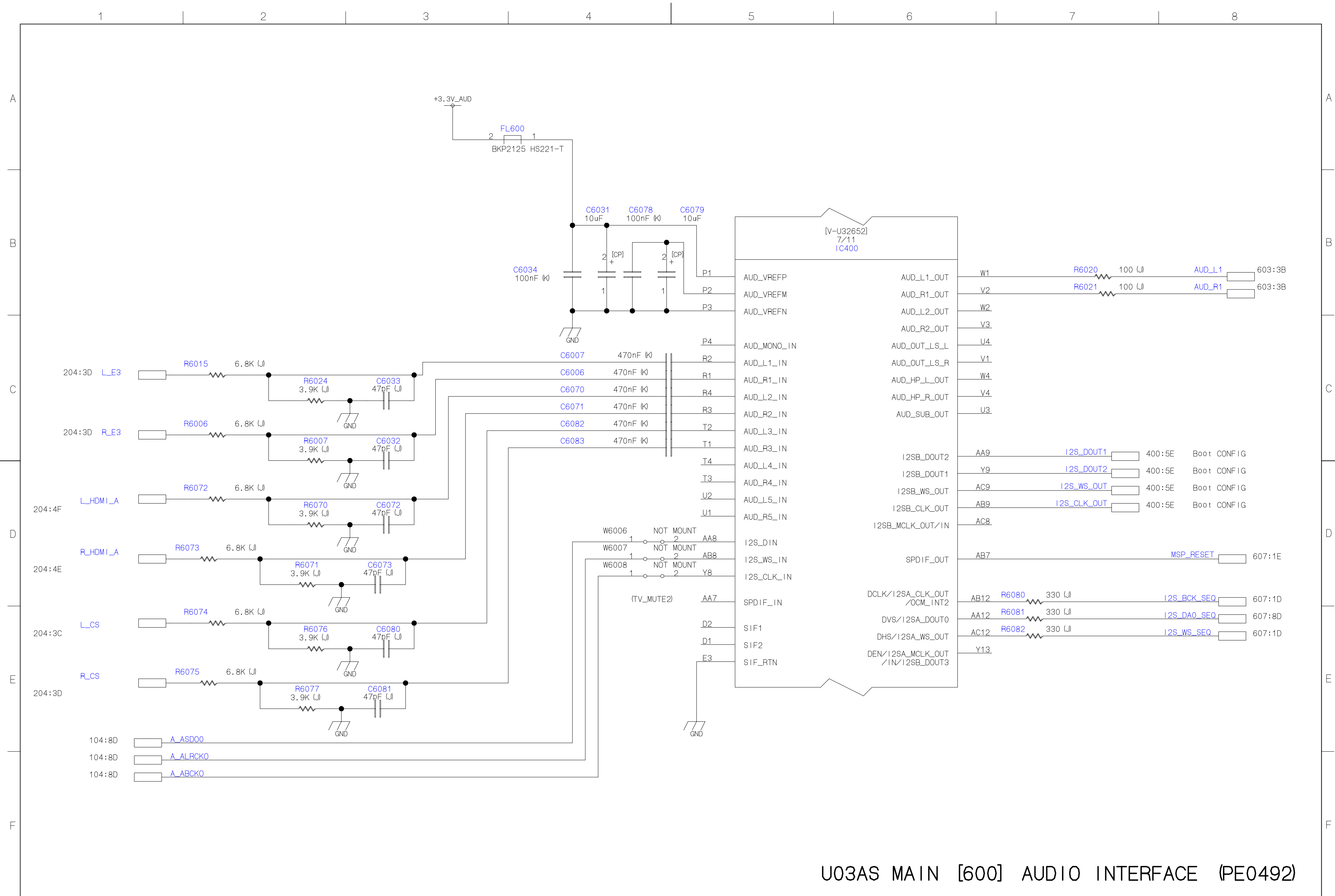


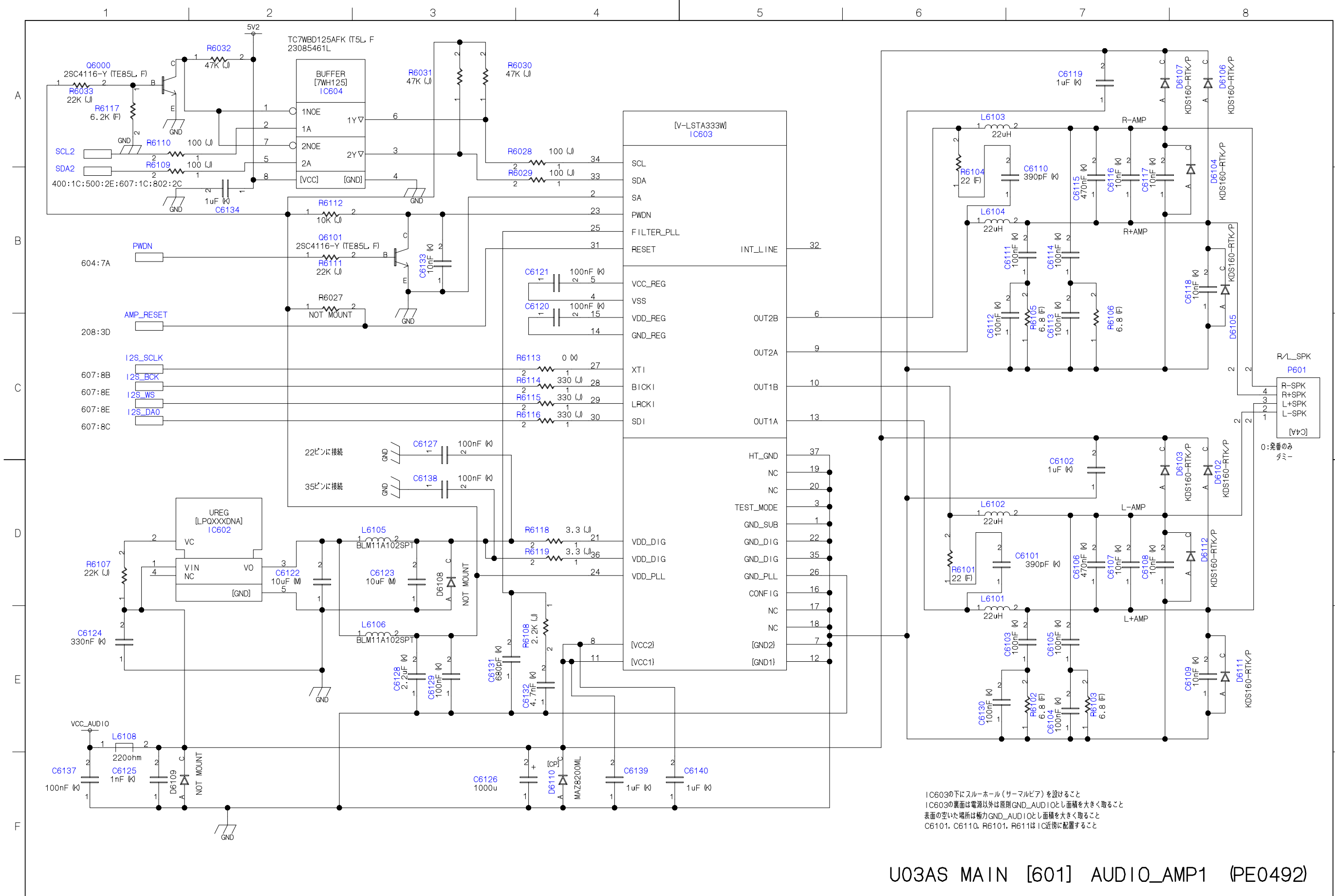


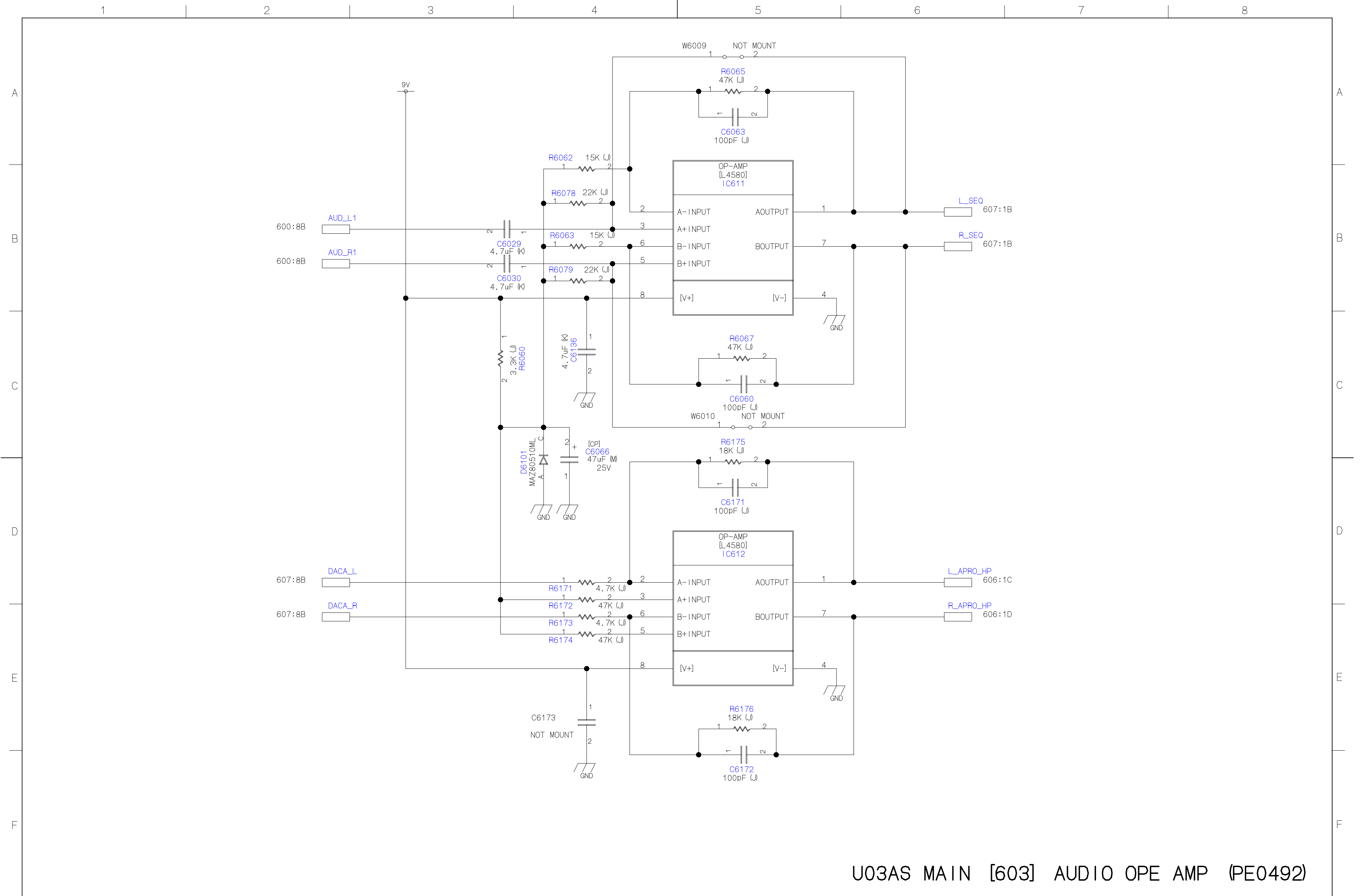
1 2 3 4 5 6 7 8

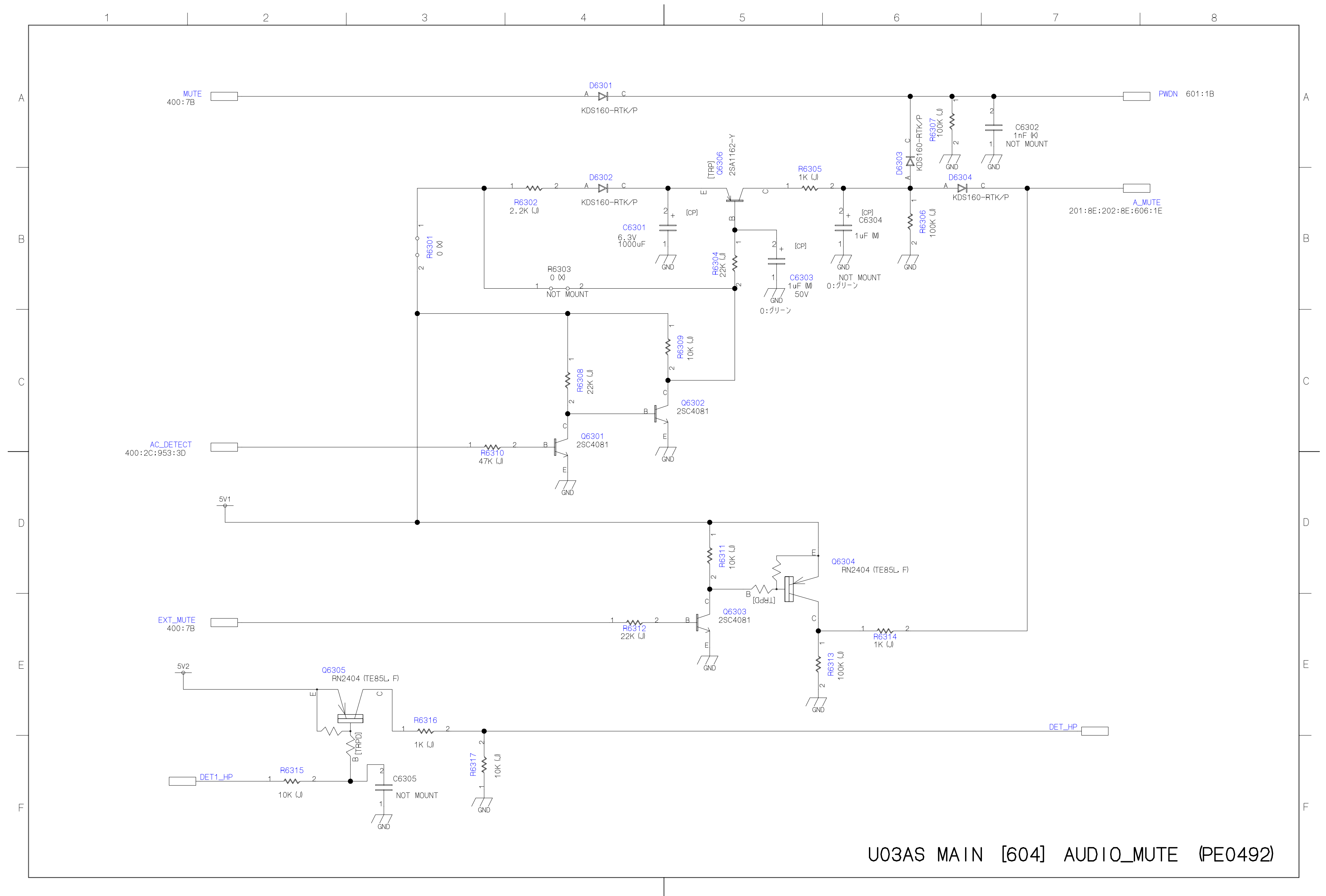


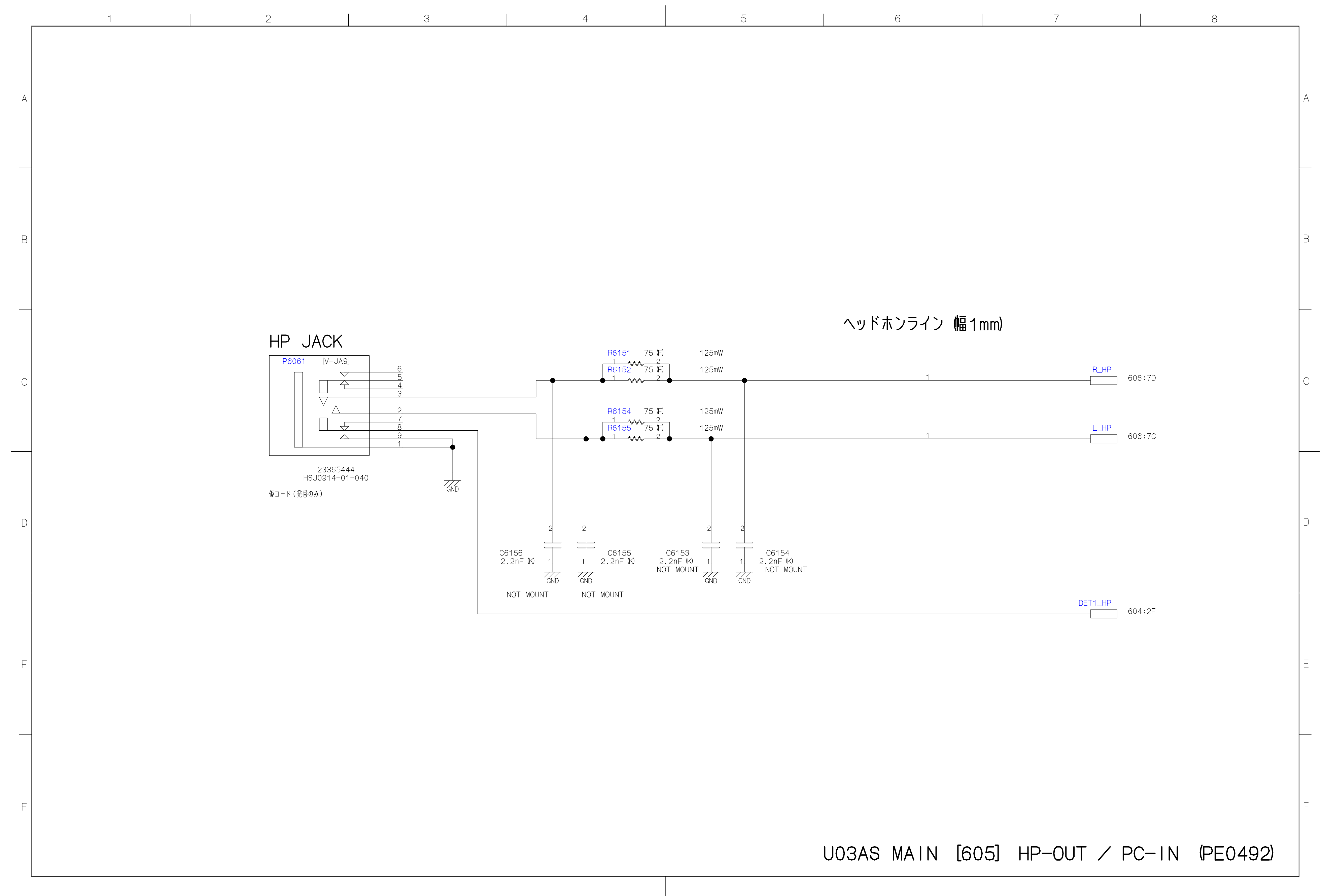
U03AS MAIN [506] WDT (PE0492)

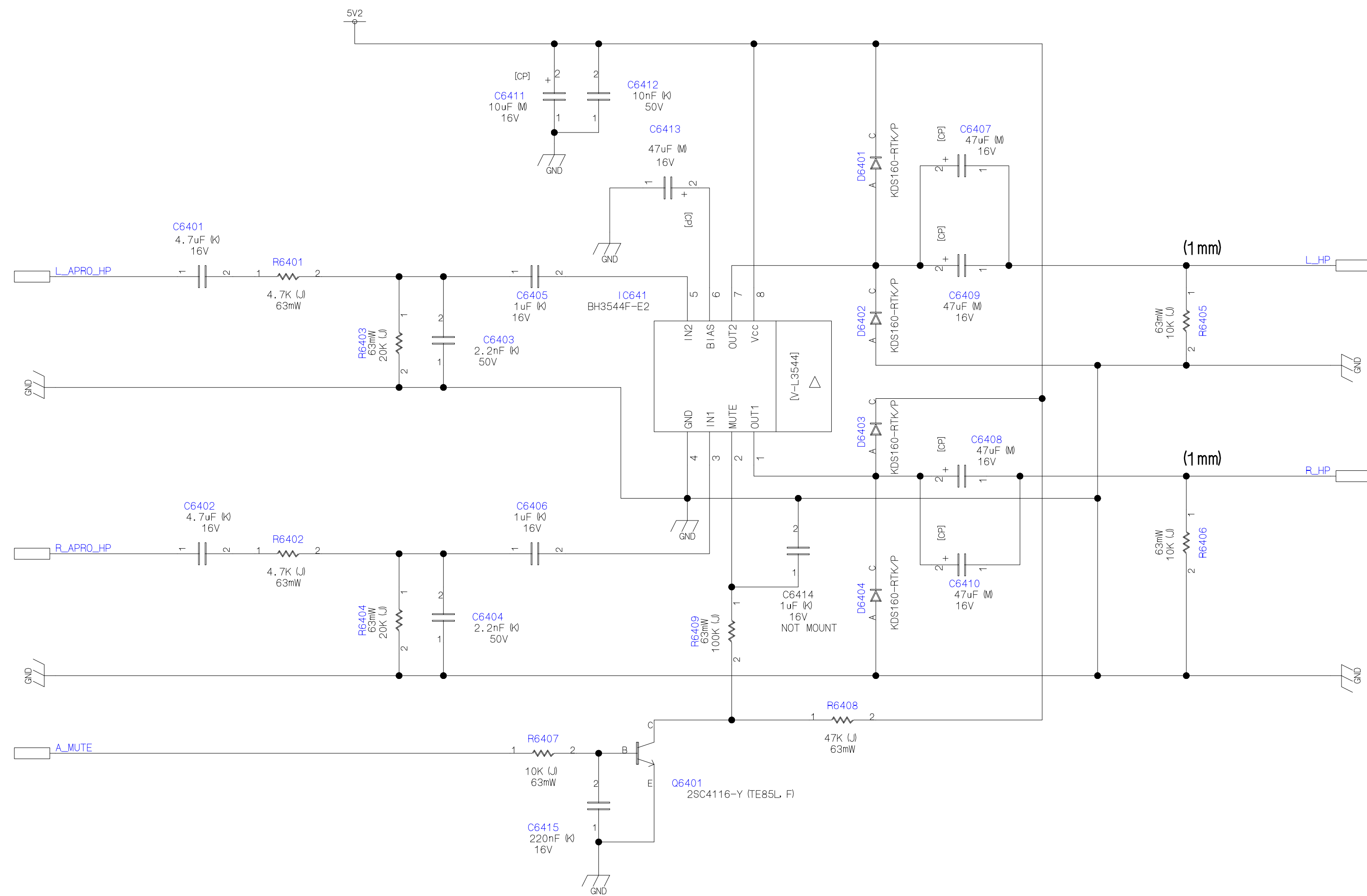




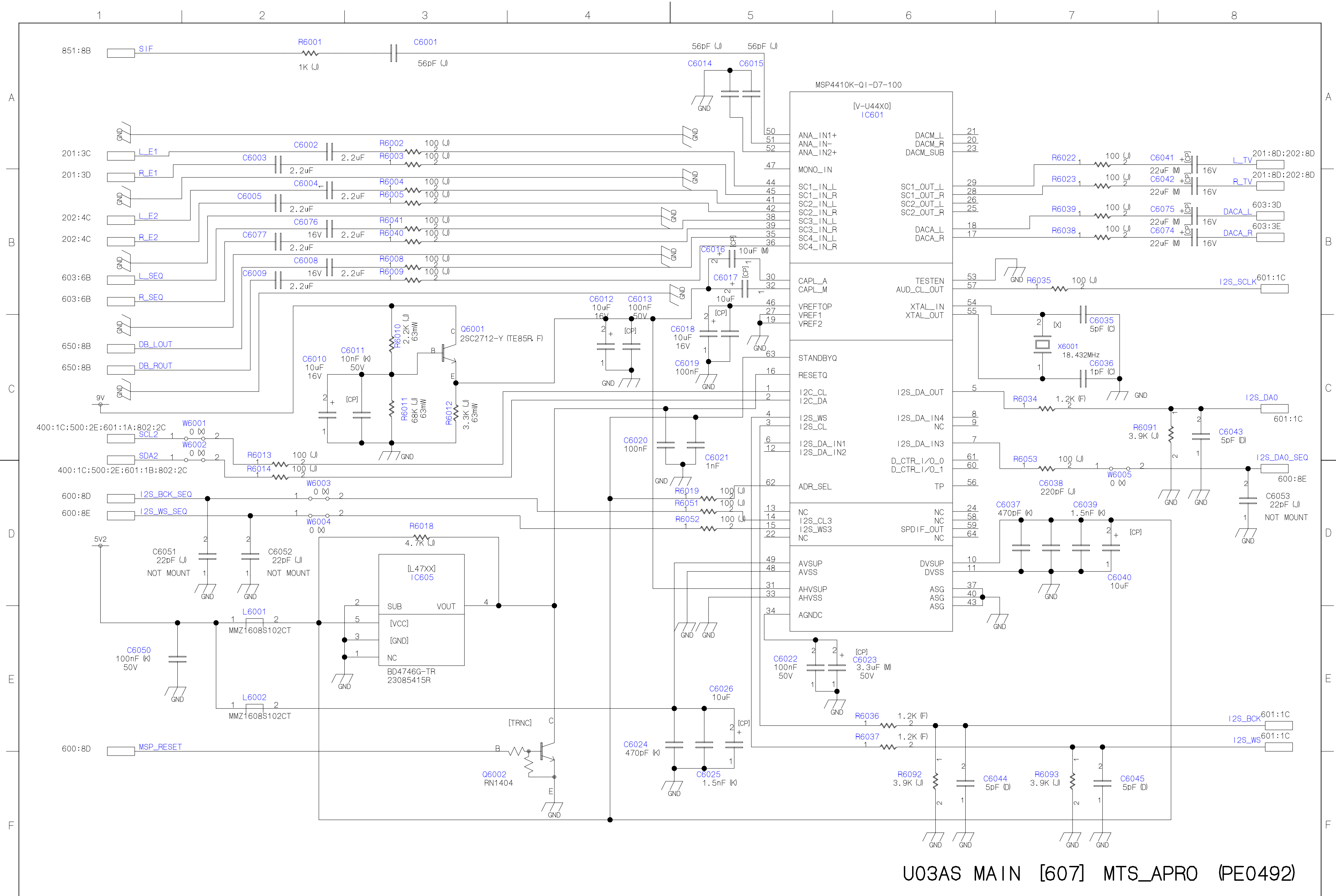


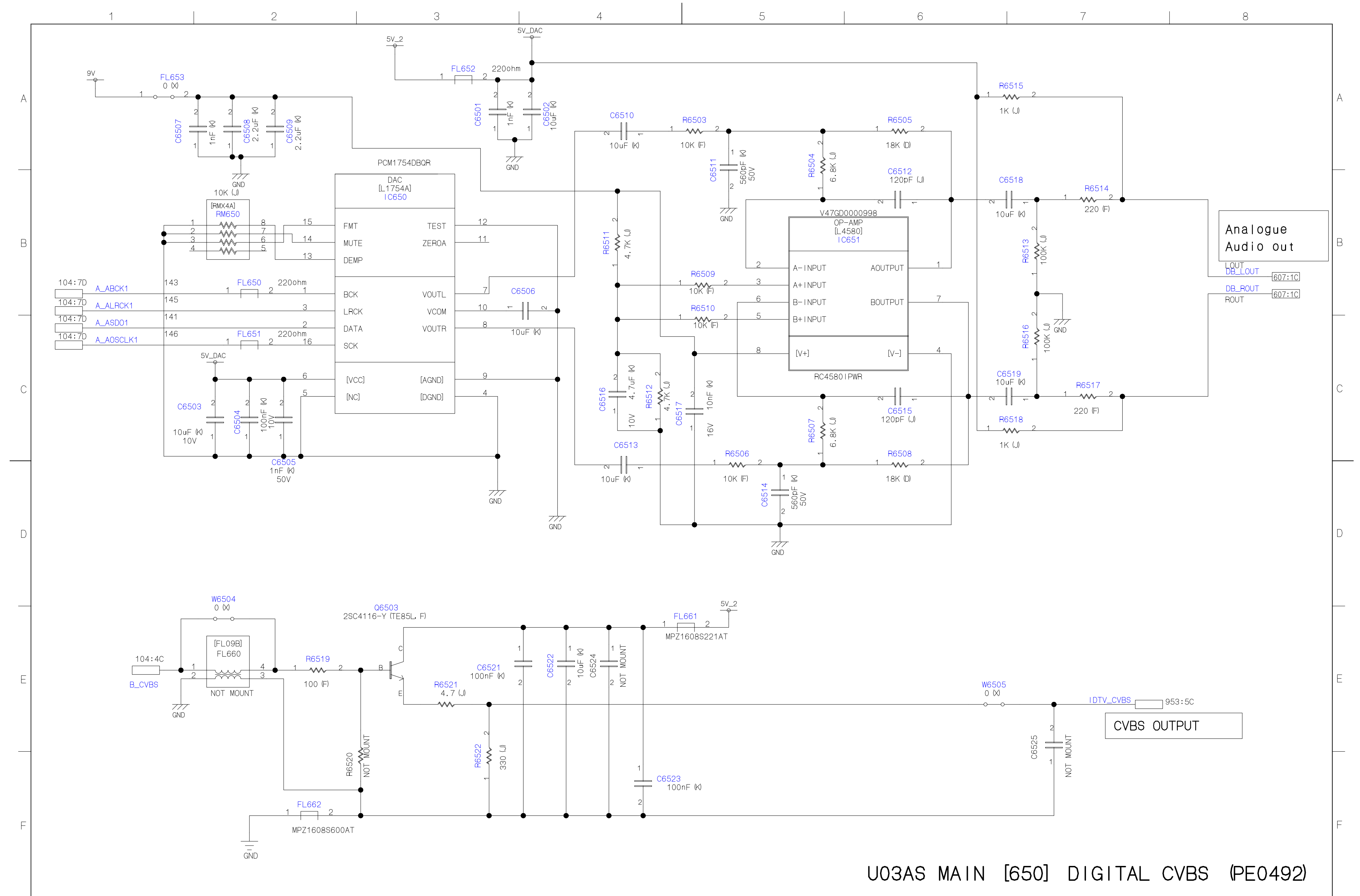


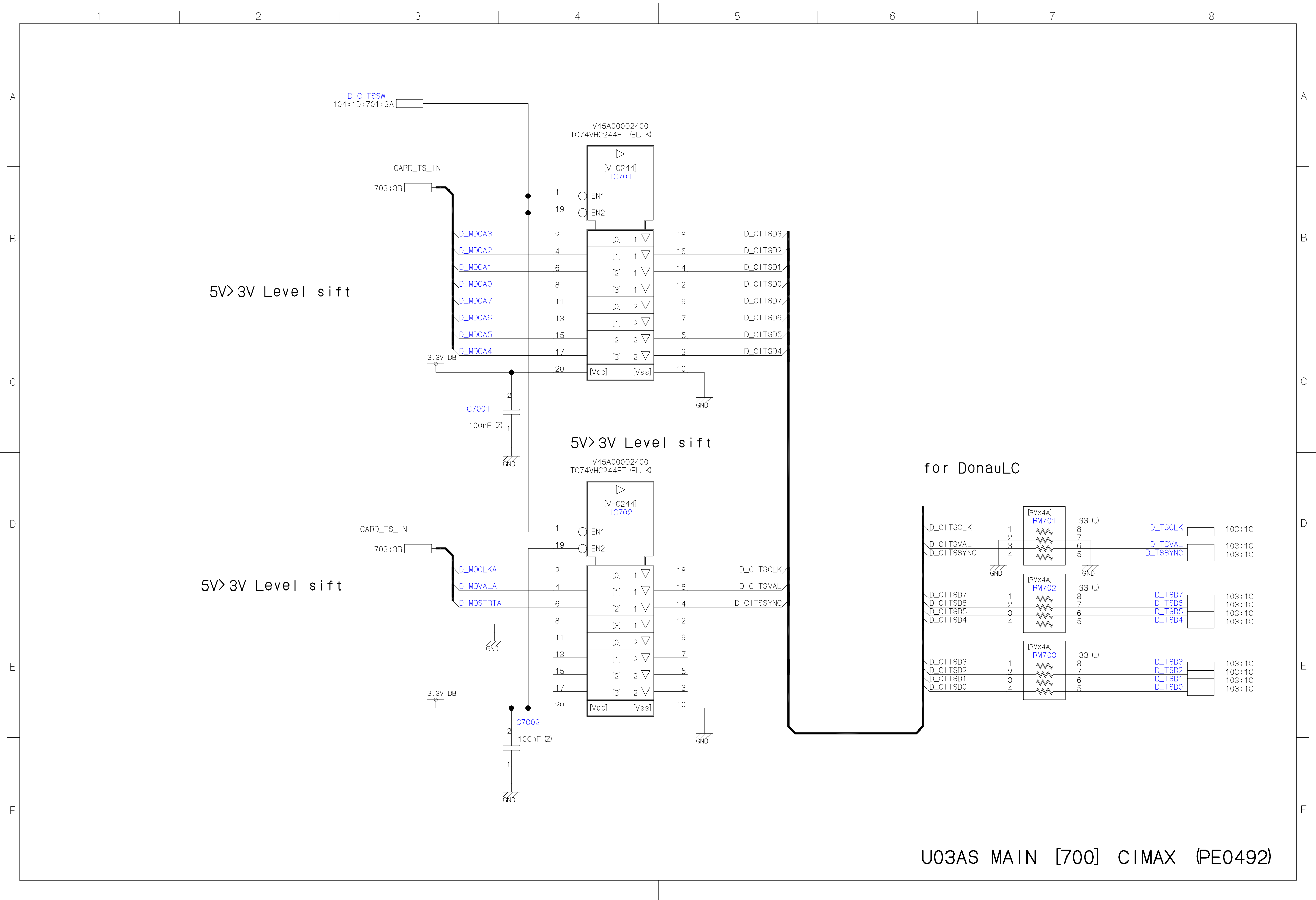


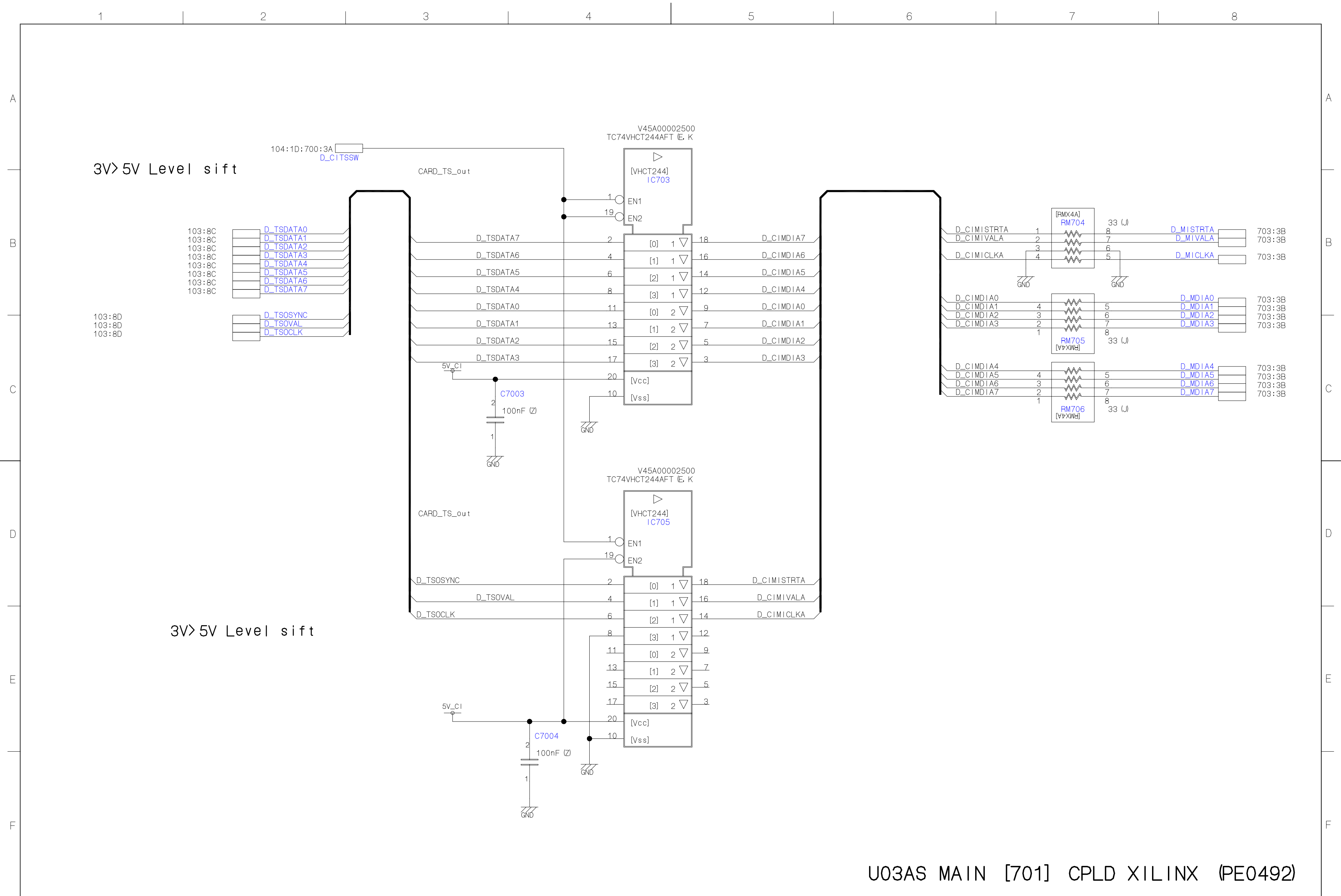


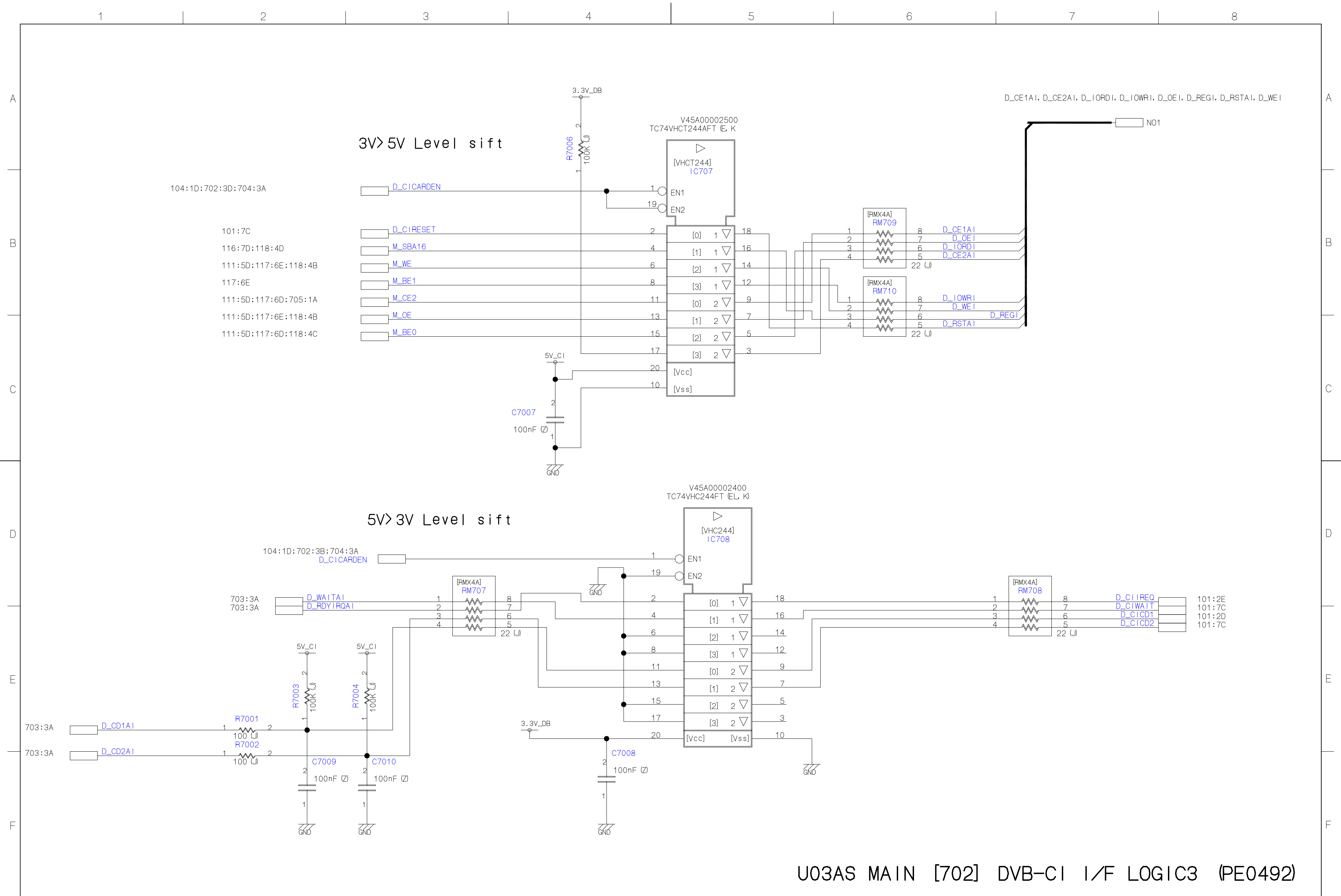
U03AS MAIN [606] HEADPHONE_AMP (PE0492)

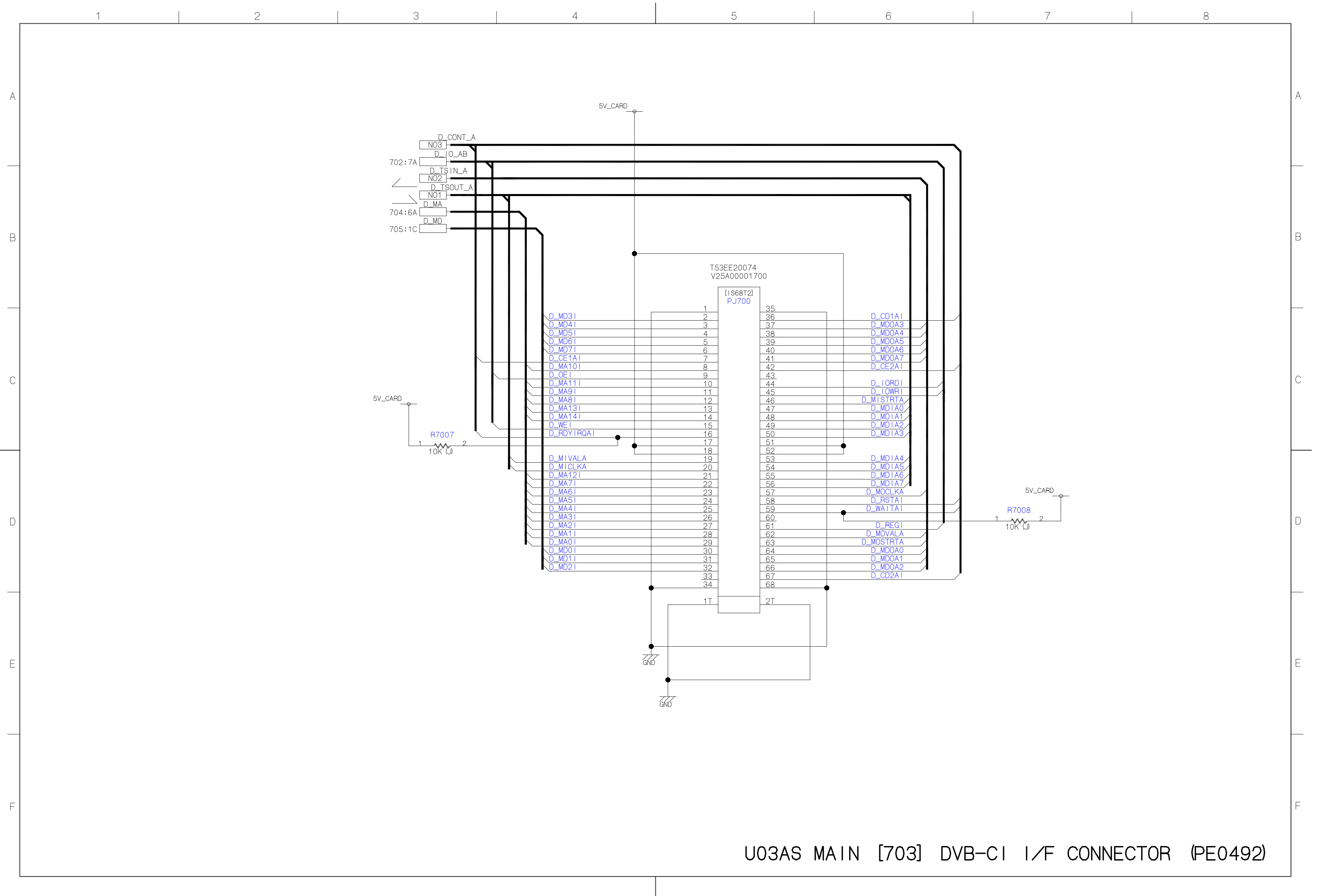


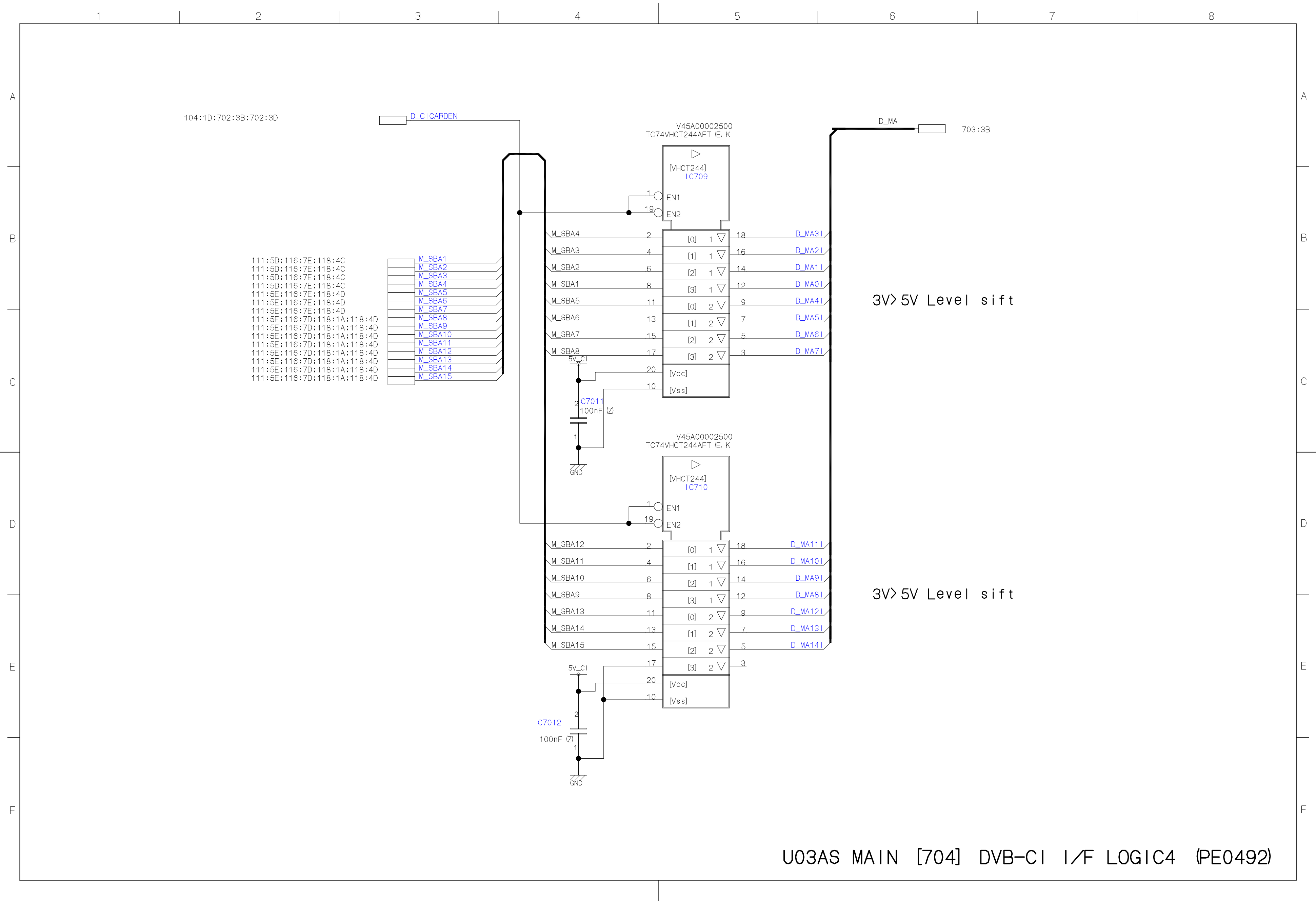


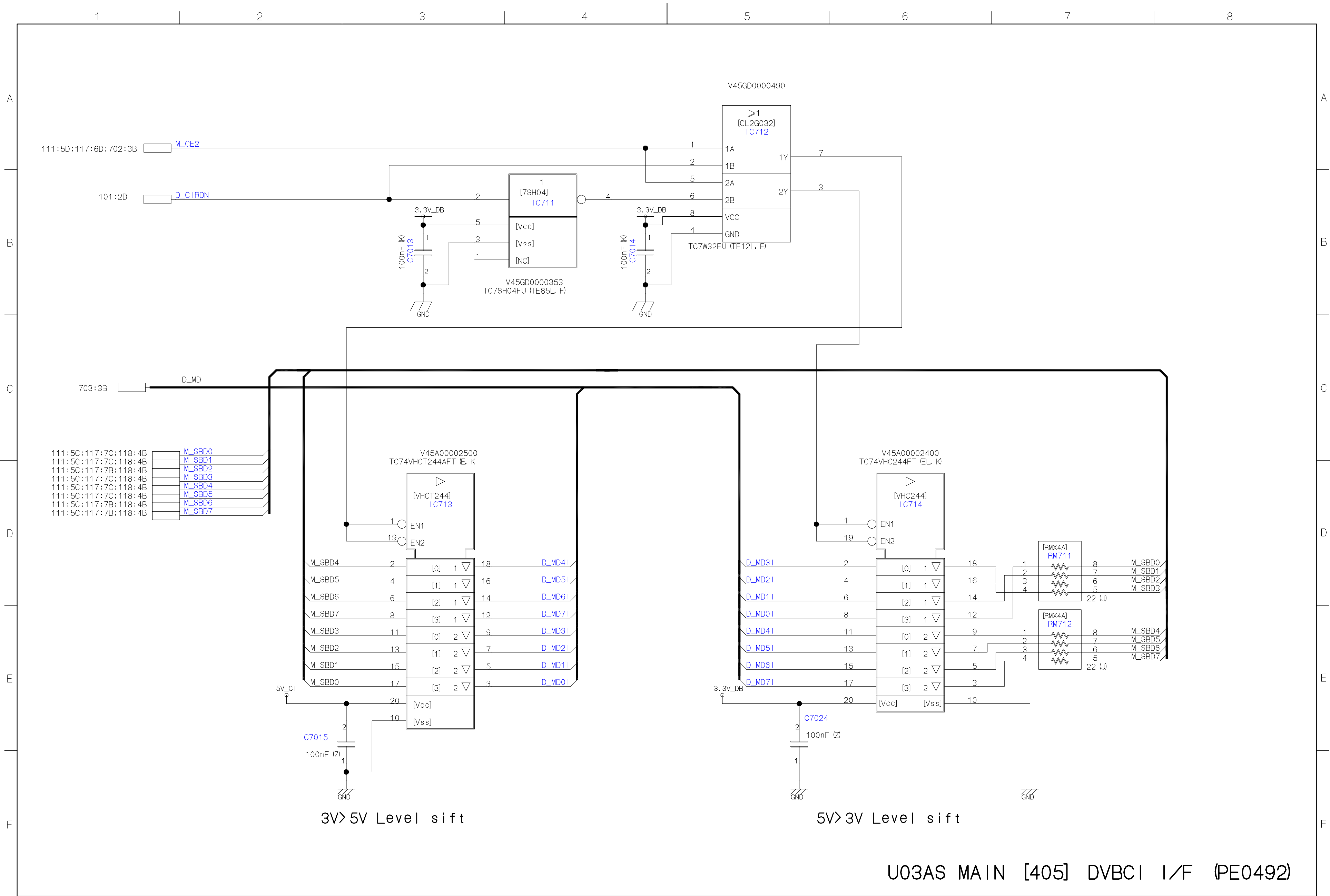


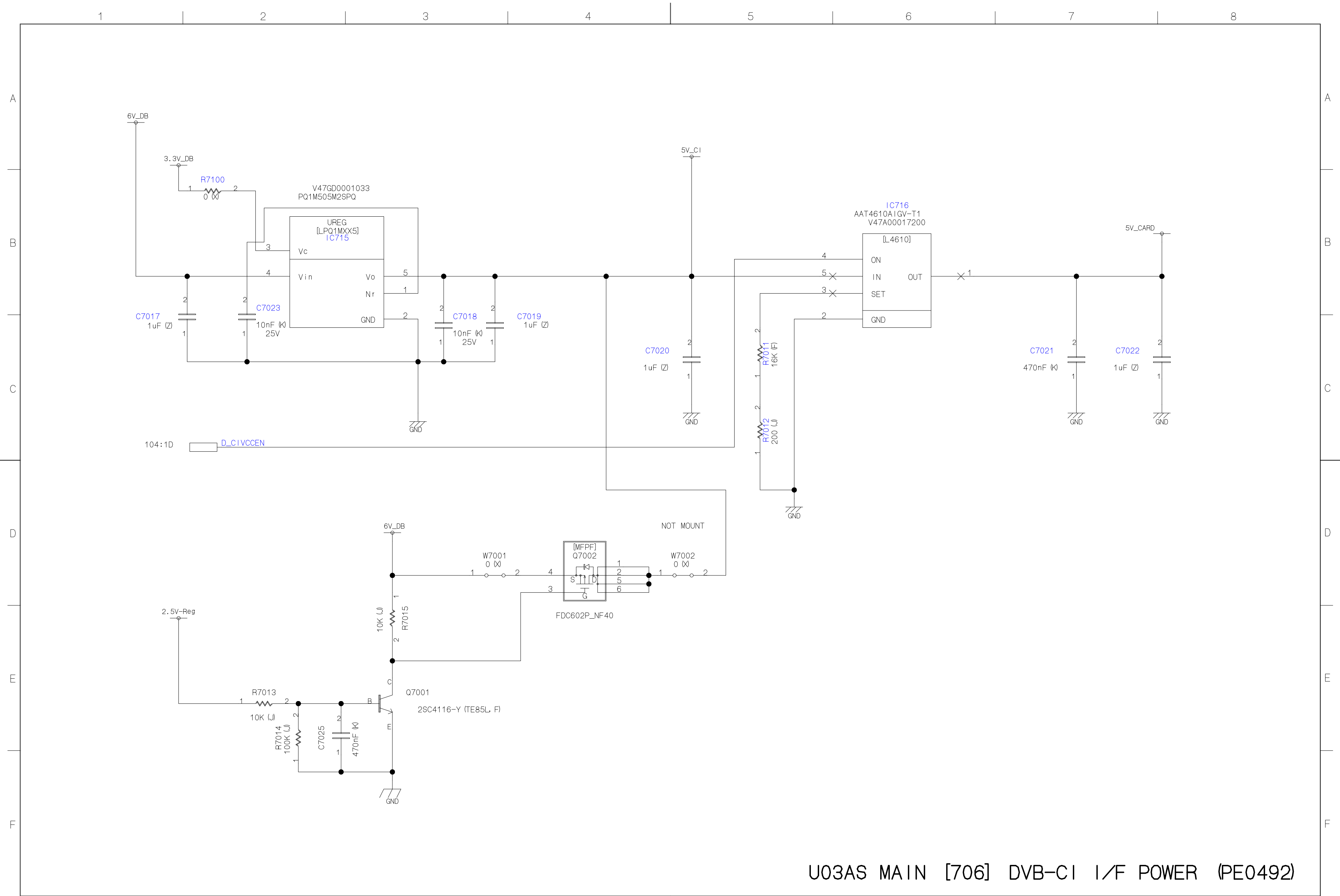


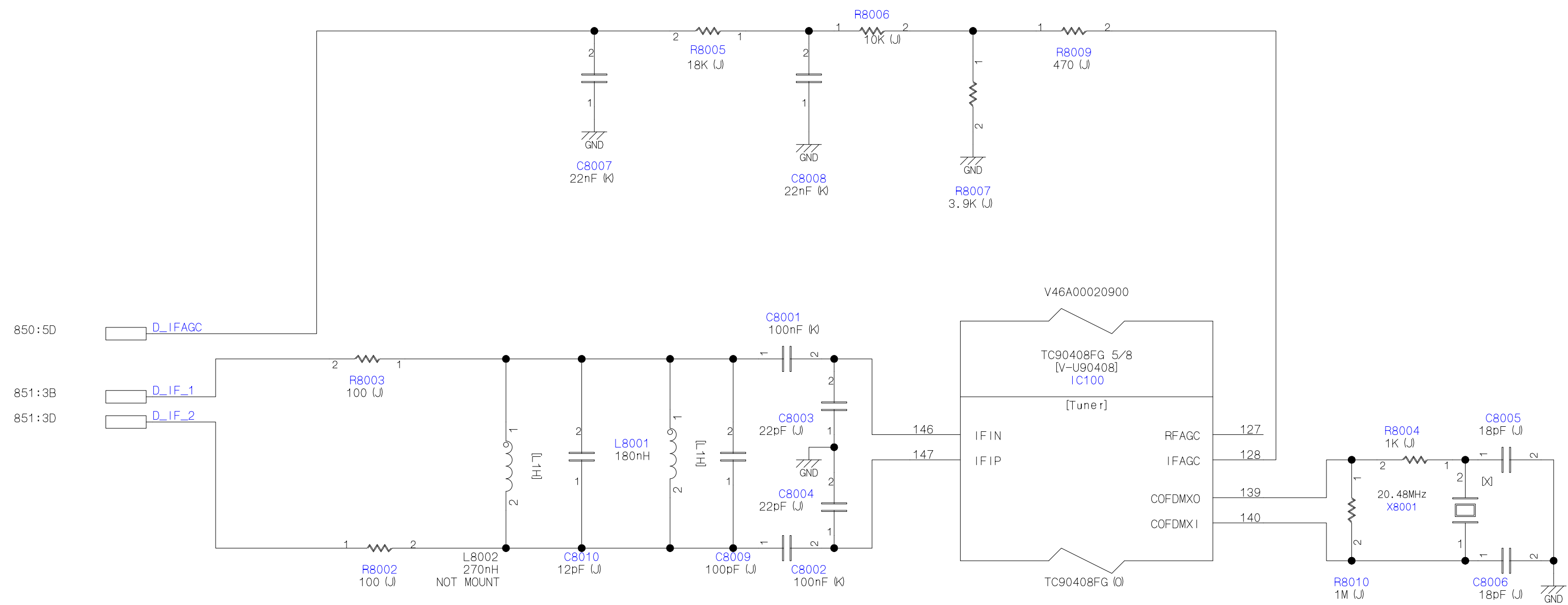




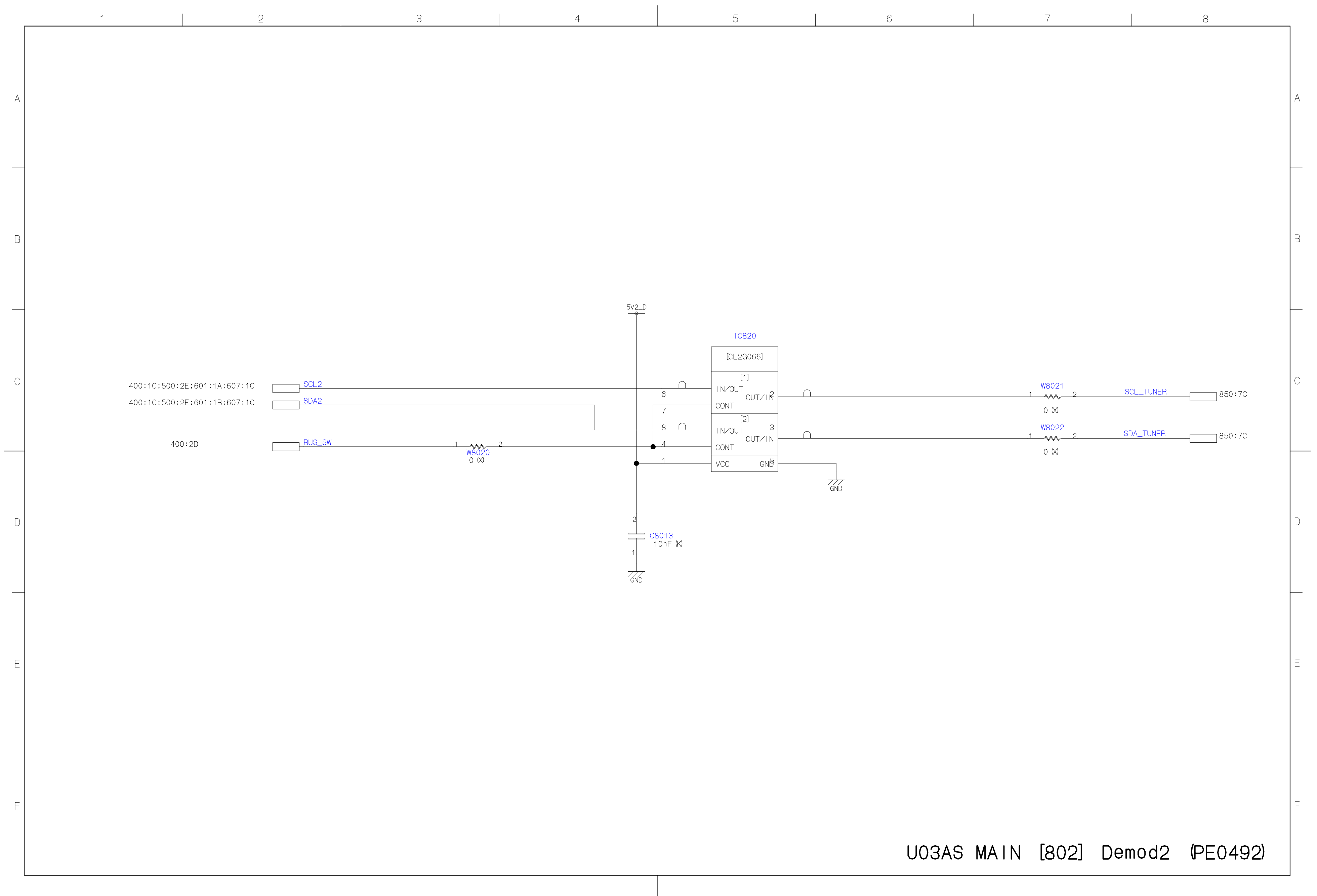


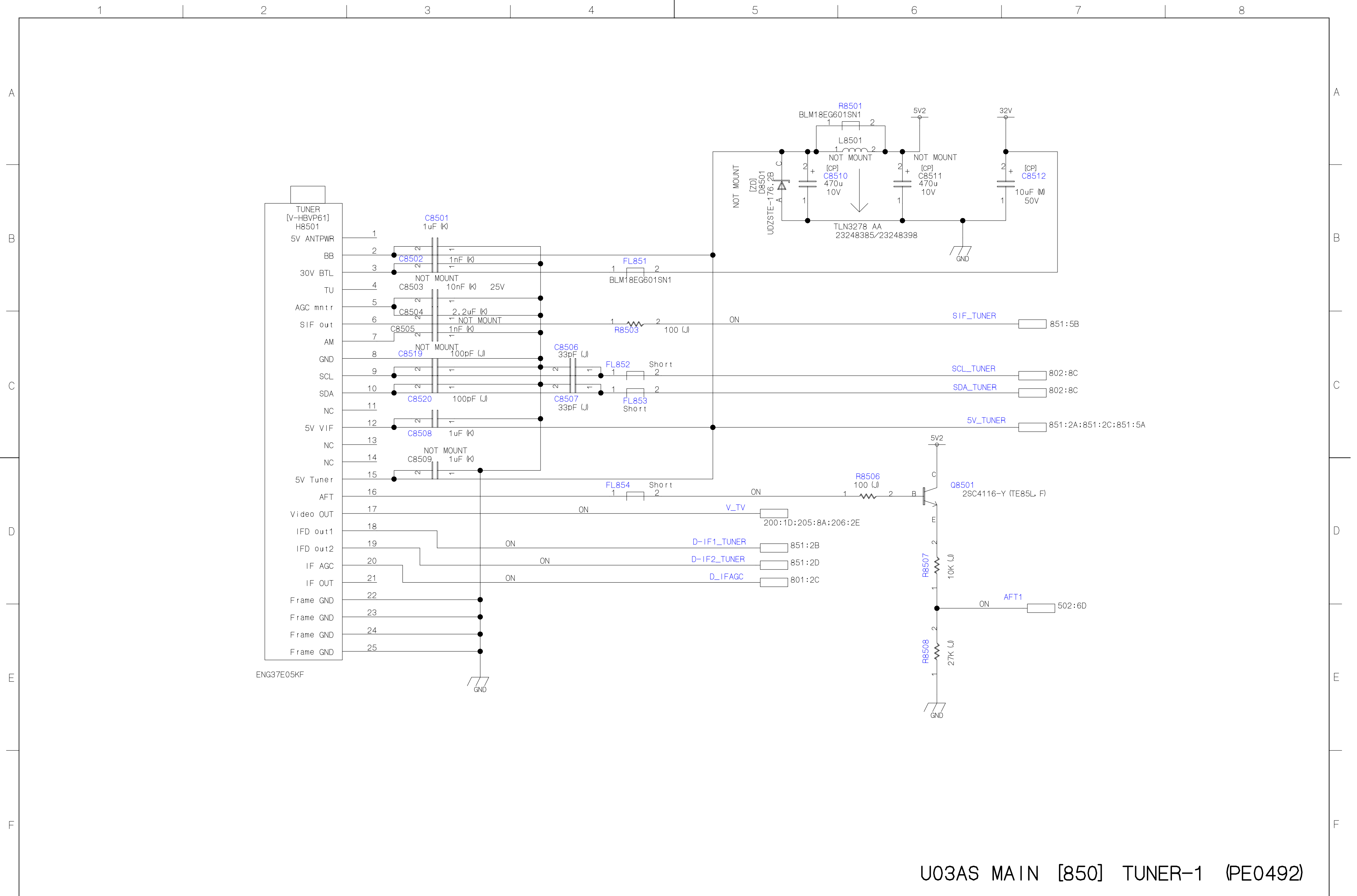


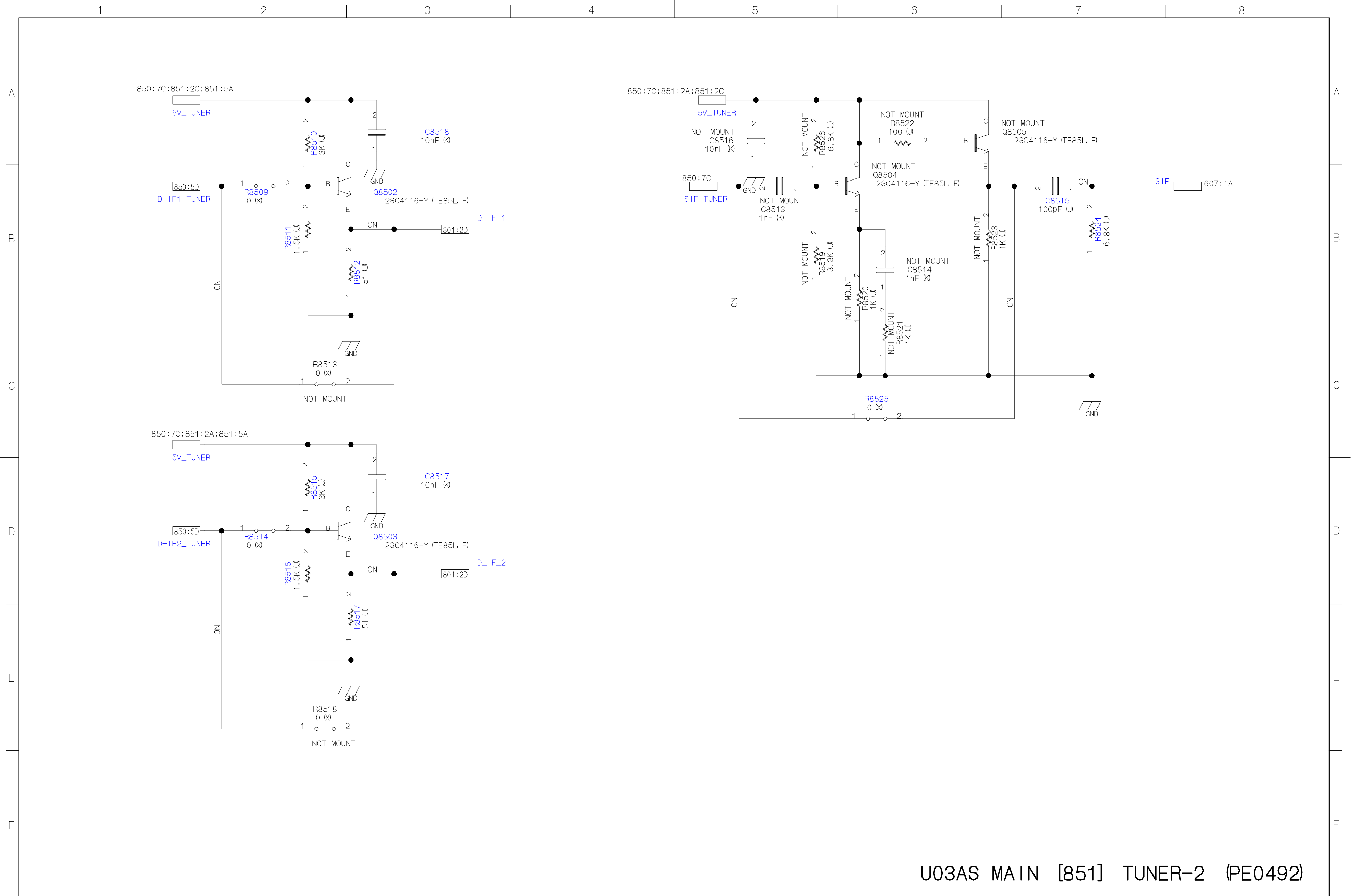




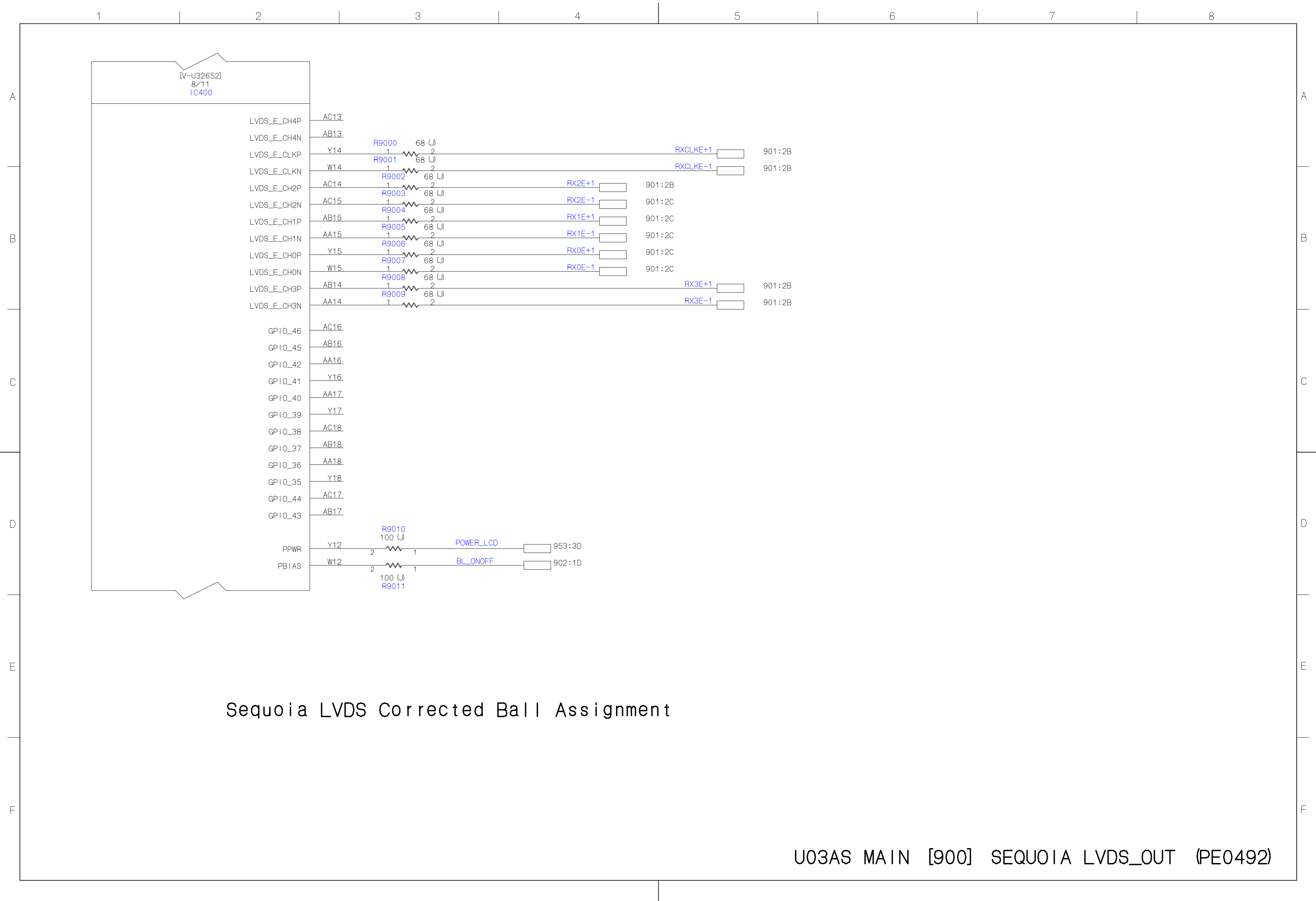
U03AS MAIN [801] Demod (PE0492)

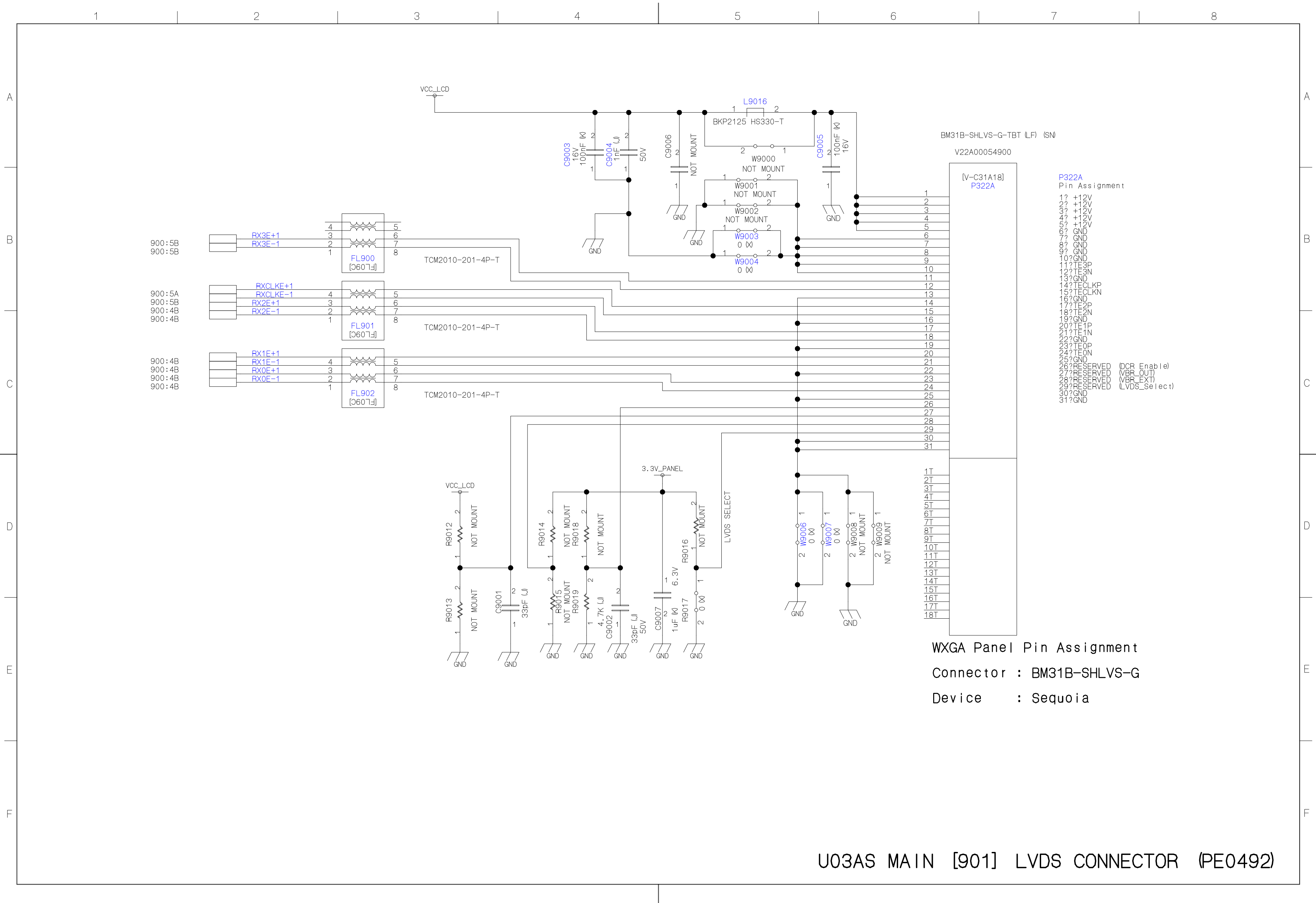




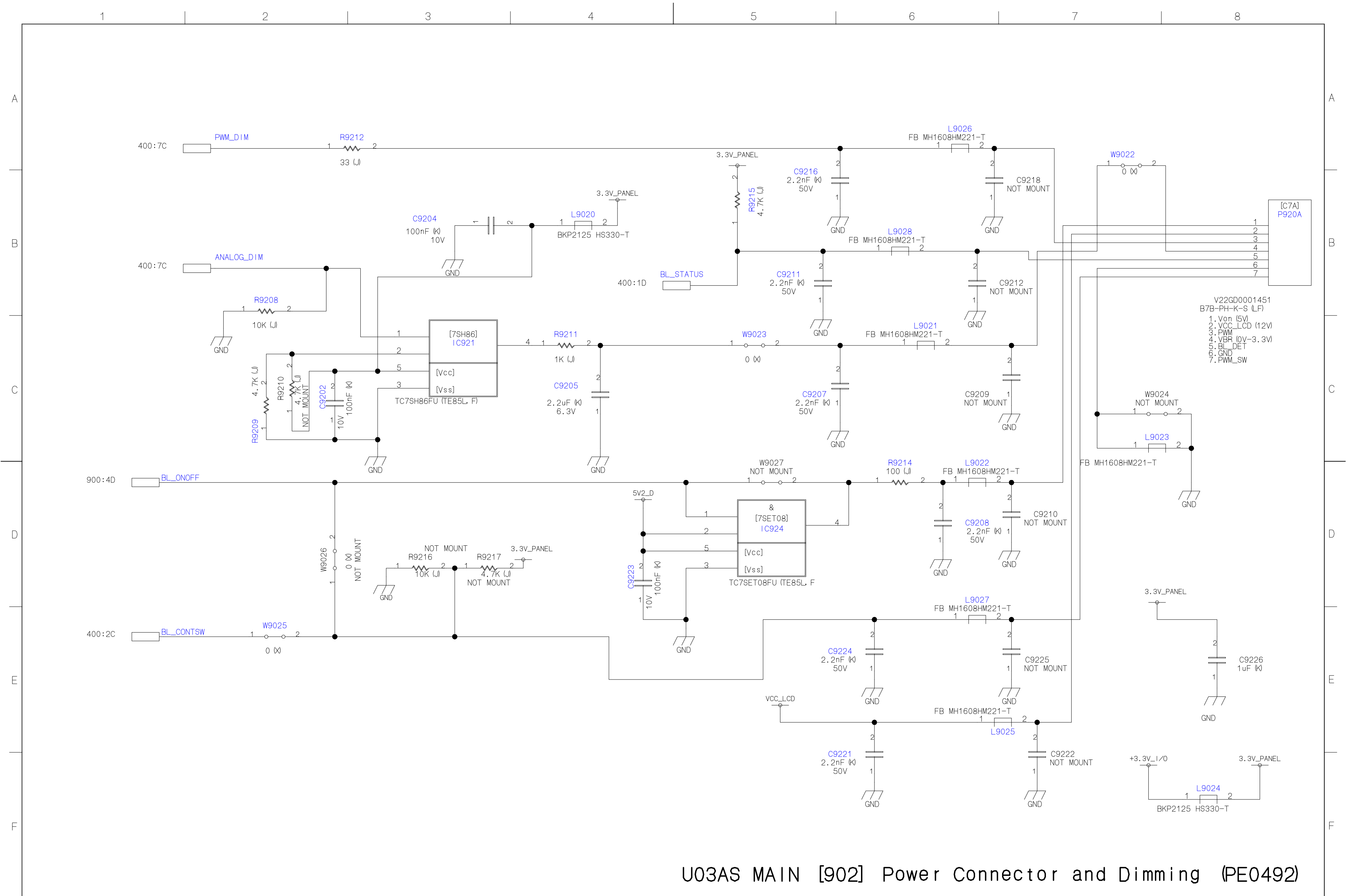


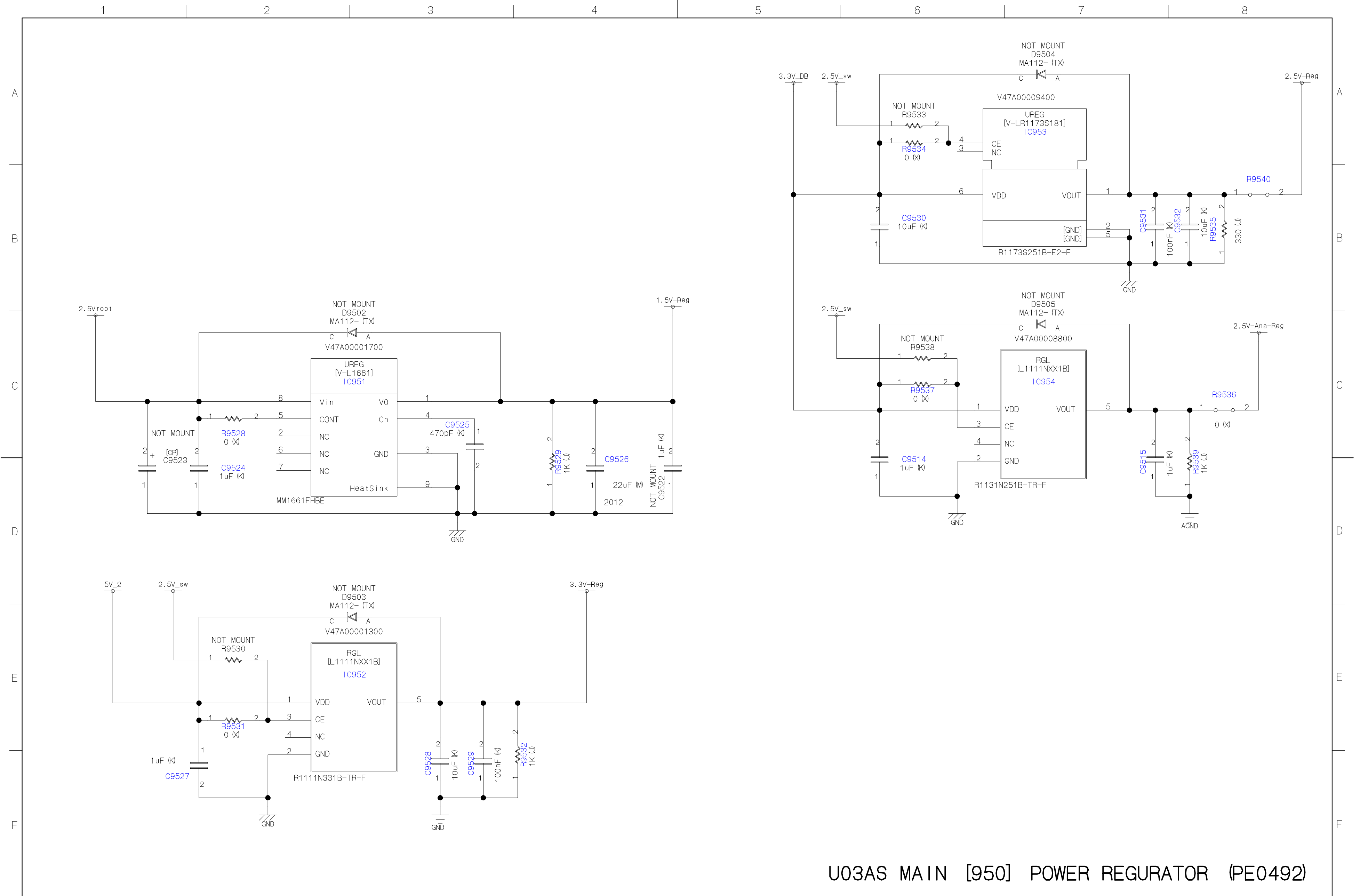
U03AS MAIN [851] TUNER-2 (PE0492)

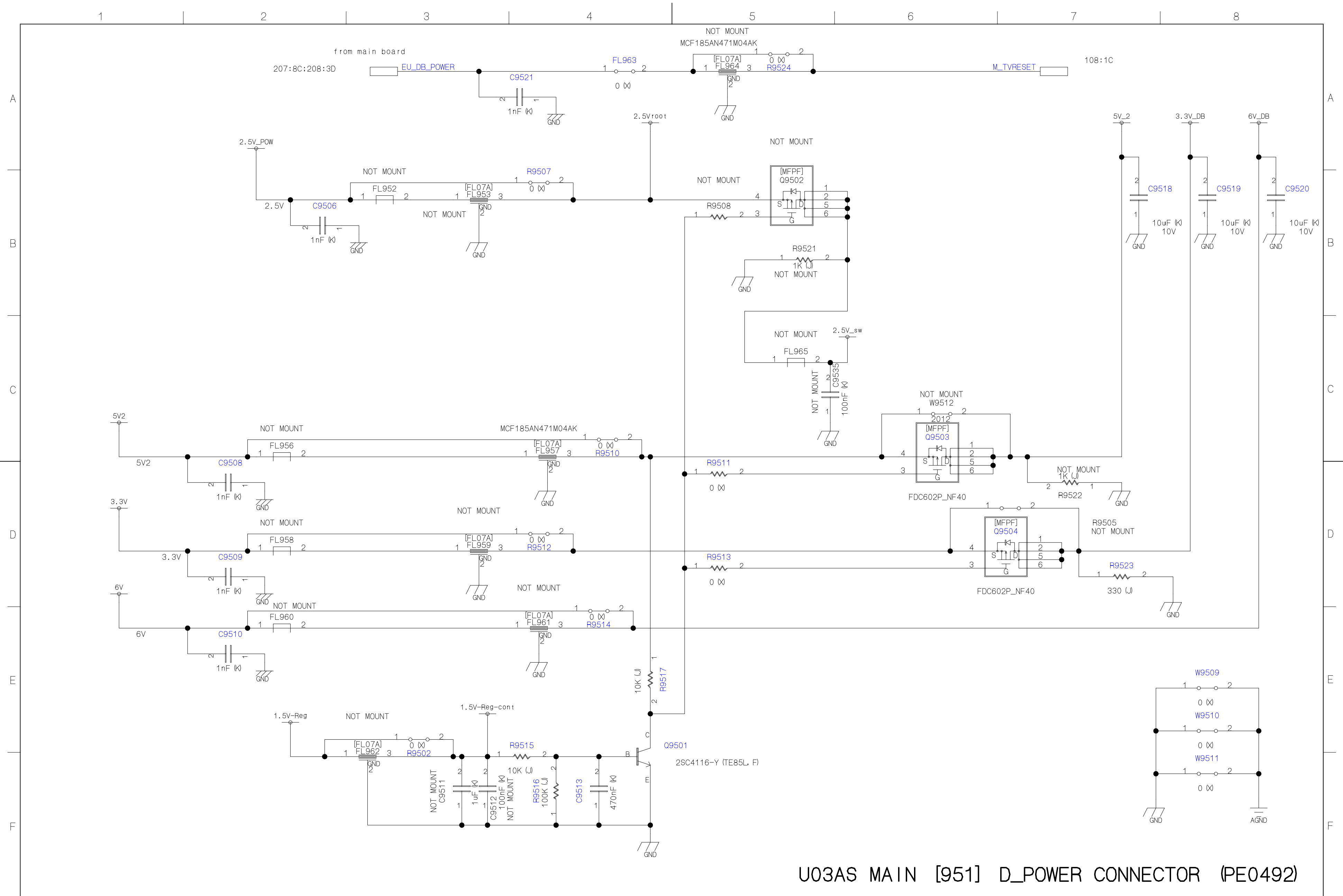


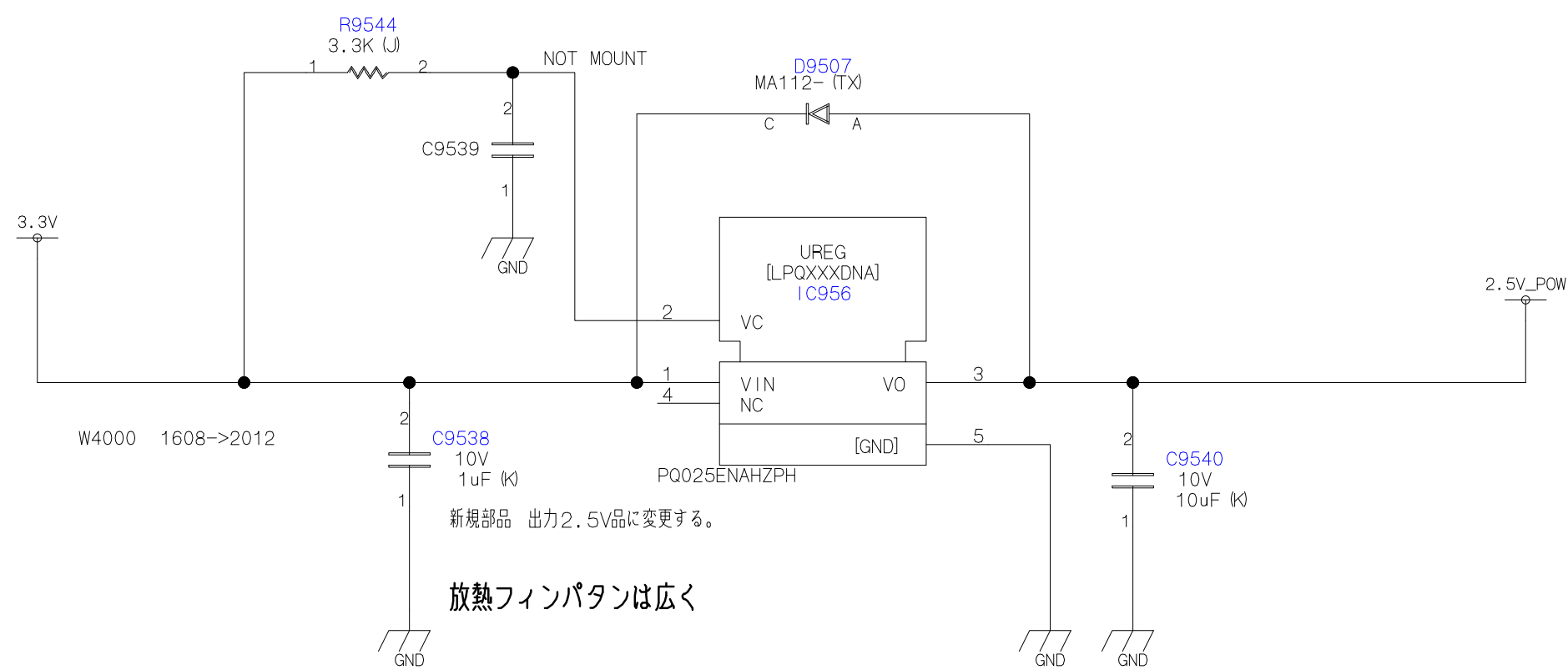


U03AS MAIN [901] LVDS CONNECTOR (PE0492)

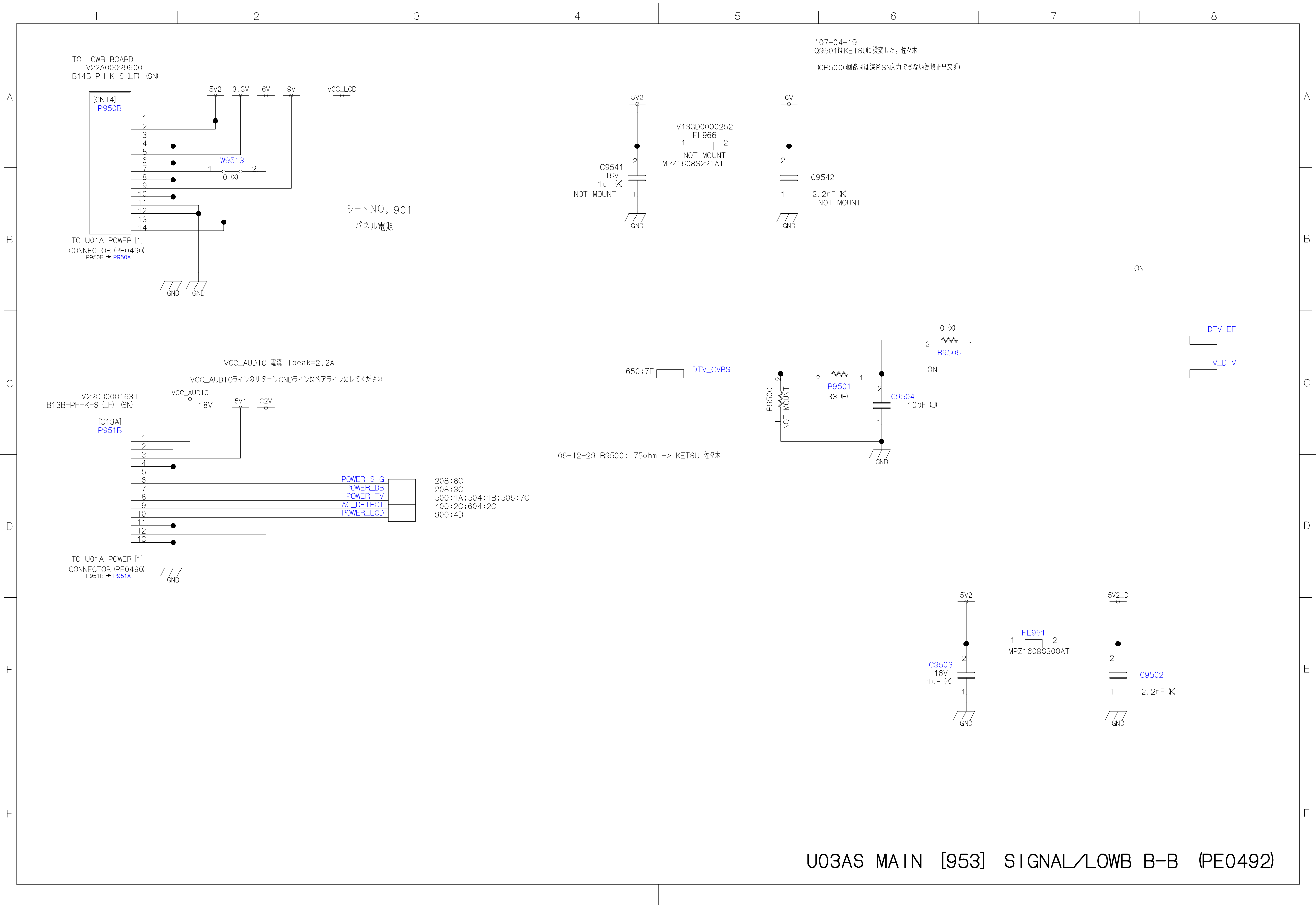




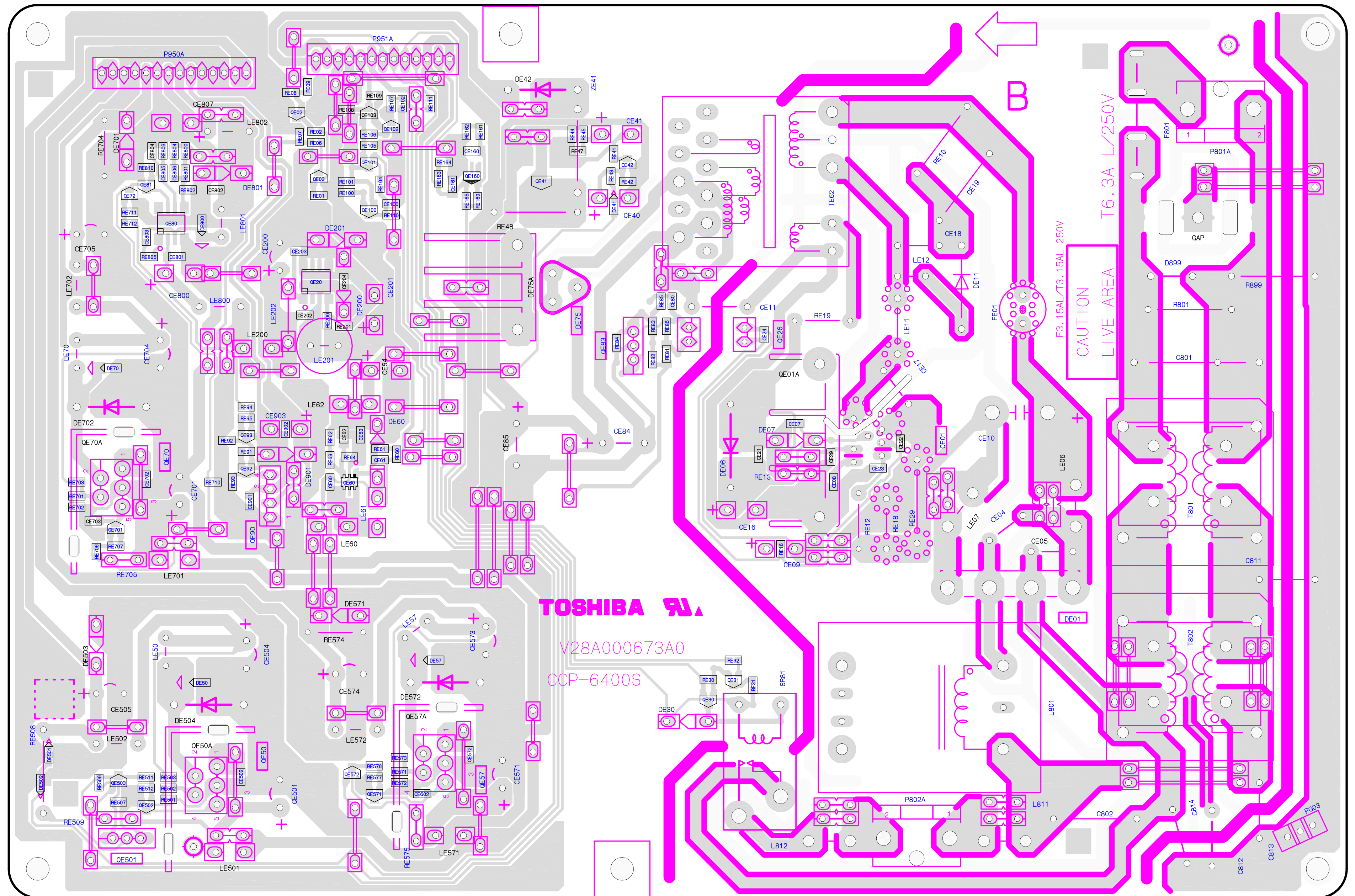




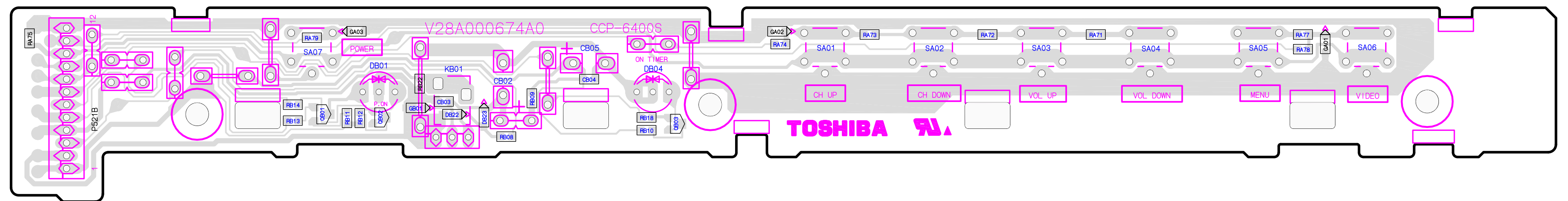
U03AS MAIN [962] D_POWER REGURETOR (PE0492)



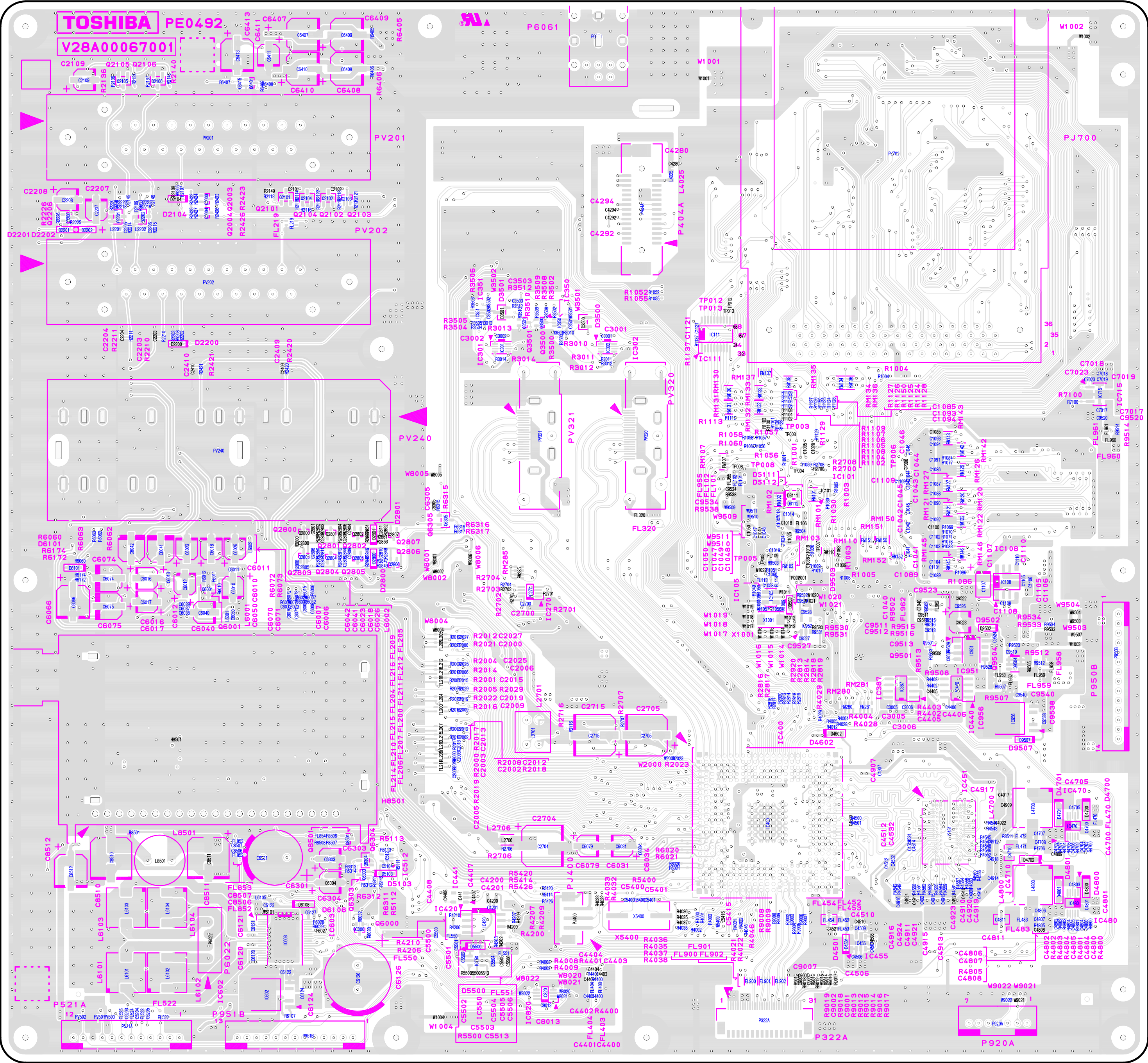
U01A POWER [Bottom] (PE0490)



U02A KEY/LED/RMT [Bottom] (PE0491)



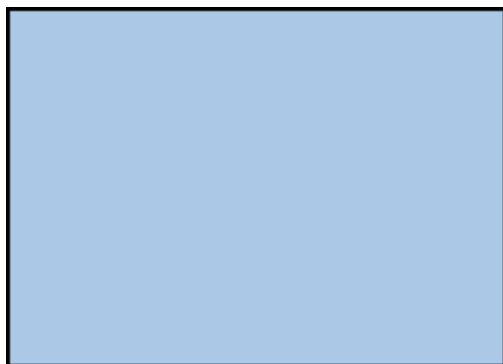
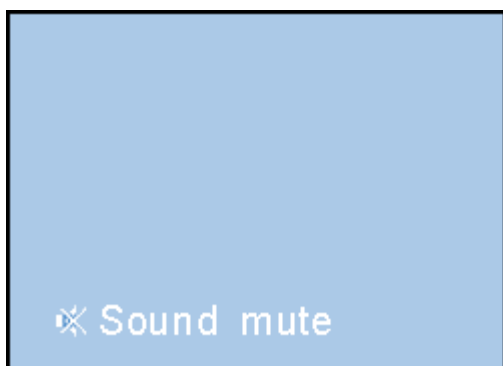
U03AS MAIN [Top] (PE0492)



ADJUSTMENT

Service Mode

Entering to Service Mode



Service Mode display

1. Set VOLUME to minimum and press  button once on remote control.
2. Press  button again and hold button down.
3. While holding the  button, press MENU button on TV set.

OPT0			S
ADDR	DATA	BINARY	
0000H	00H	00000000B	

Displaying the Adjustment Menu

Press MENU button on TV.

Service Mode

			S
--	--	--	---

Press ↑ ↓ Press

Adjustment Mode

OPT0			S
ADDR	DATA	BINARY	
0000H	00H	00000000B	

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.

Test signal selection	⏻ button (on remote control)
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume ▲ +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH ▲ button on TV
Reset the count of operating protect circuit to "00"	CALL + CH ▼ button on TV
Turn off I2C bus communication	CALL + Volume ▲ + button on TV
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button
"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Item

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ 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
RCUT	R CUT OFF
GCUT	G CUT OFF
BCUT	B CUT OFF
RDRV	R DRIVE
GDRV	G DRIVE
BDRV	B DRIVE
BRTC	BRIGHTNESS CENTER
COLC	COLOR CENTER
UVTT	BASE BAND TINT
CNTX	CONTRAST MAX
VOLUX	MAX VOLUME LIMITED
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 SIZE)
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

Factory preset data will be loaded after setting Model ID data.

(Refer to Initialization of Memory Data of QA02 and setting data of signal board.)

Adjusting the Data

Pressing of VOLUME  +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

I2C Bus Off

Turn off I2C communication between IC700 and IC400.

- 1) Press and hold the CALL button on the remote control, then press the Volume  + button on the TV.
- 2) Display "BUS Off" OSD.
- 3) I2C communication turned off.

Note:

To return Bus on status, press and hold the CALL button on the remote control, then press the Volume  + button on the TV again. TV will be turned off and automatically turned on, then status will be Bus On.

Setting TVOP

Enter to service mode and select menu of TVOP by pressing P▲ or P▼ during display of adjustment menu. After selecting TVOP, press  + or  - to set I2C check function to disable or enable as below.

TVOP	FUNCTION DESCRIPTION	1	0 (Normal)
D5 (bit5)	I2C check between IC700 and IC400. (WDT)	Disable	Enable

Setting Panel Option Data

Panel option data is subject to OP4 and OP5.

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
A505D	EU Digital	32AV505D	IPS	0x07	0x65
		37AV505D	IPS	0x07	0x66
		42AV505D	LPL	0x01	0x67
			AUO	0x05	0x87

OP4

Ex. OPT4 value 0x05 indicates that panel vendor is AUO AMVA.

--	--

		OPT4							
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel vendor	LPL	-	-	-	-	0	0	0	1
	SHP	-	-	-	-	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

OP5

Ex. OPT5 value 0x06 indicates that panel size is 37.

		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

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
F	1	1	1	1

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.

Initialization of Memory Data of QA02 and Setting Data of Signal Unit

After replacing QA02 or signal board, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

Whenever using new signal board to the set, setting the Model ID data

according to Panel option data.

- 1) Enter the service mode.
- 2) Select menu of ID by pressing P▲ or P▼ during display of adjustment menu in the service mode.
- 3) Change ID data into MODEL ID to initialize by pressing ▲+ or ▲-, refer to table below.
- 4) Press and hold the CALL button on the remote control, then press the CHANNEL ▲ button on the TV.
- 5) Initialization progress dialog including model name and panel vendor is shown. Progress status is "WRITING".
- 6) Progress status is changed "OK" and power cycle (automatically). Then QA02 initialization has been completed.
- 7) Enter the service mode and select version check mode. Confirm if model name and model id set is correct. If not, repeat steps 1) to 6).

Note:

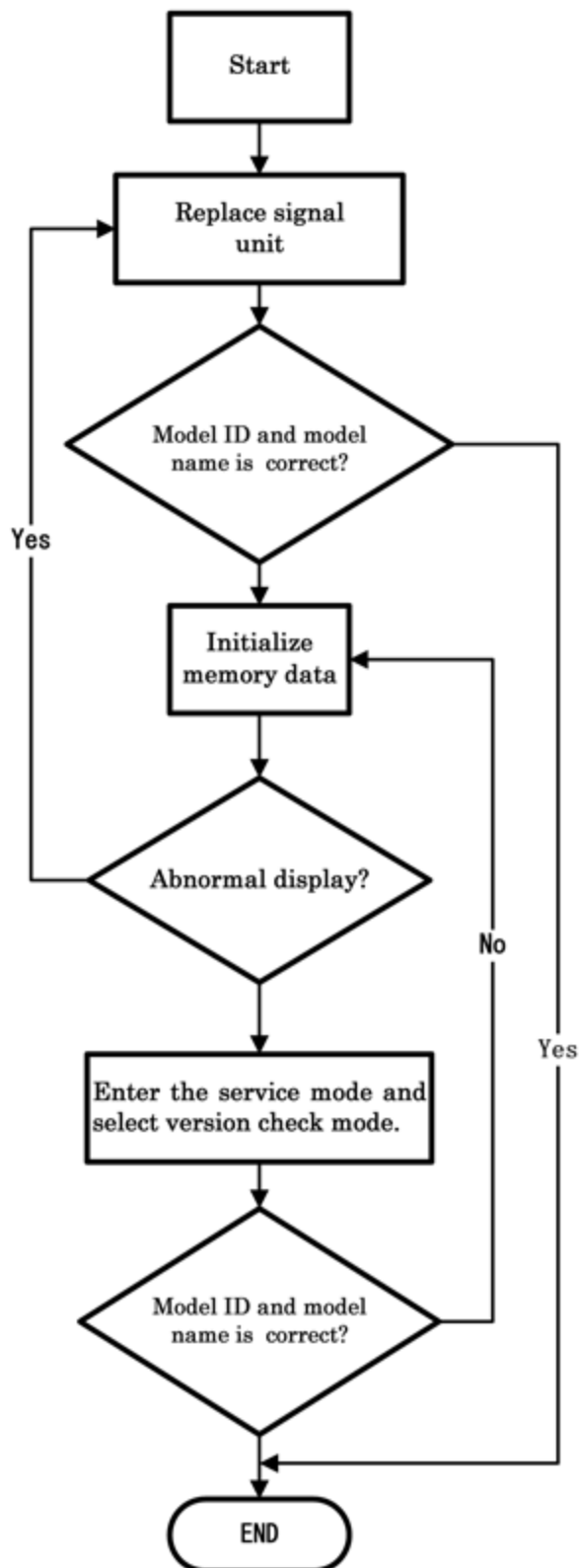
In case initialization by setting wrong MODEL ID is done, there is a possibility of abnormal display.

- 8) Set I2C check function of TVOP to enable.
- 9) Check the picture carefully. If necessary, adjust any adjustment item above.
Perform "Auto tune" on the owner's manual.

MODEL ID (HEX)	Model name	Panel vendor
0x01	32AV505D	IPS
0x02	37AV505D	IPS
0x03	42AV505D	LPL
0x04	42AV505D	AUO

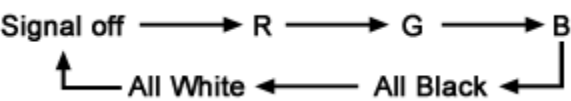
0x05		
0x06		
0x07		
0x08		
0x09		
0x10		
0x11		
0x12		
0x13		
0x14		
0x15		
0x16		
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0x23		
0x24		
0x25		
0x26		
0x27		
0x28		
0x29		
0x30		
0x31		
0x32		
0x33		

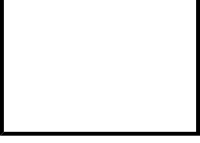
Initializing Data setting flowchart after replacing the Signal Unit



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
	All White

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.

Self check	
(1)	Firmware : AAAA_BB_0000
(2)	Time : 000000
(3)	BL_STATUS : 00
(4)	Bus line : OK
(5)	Bus cont : CXA2189Q(90H)
(6)	Block : UV V1 V2 V3 V4 V5 V6 V7 V8 V9 PC YUV DTV

- (1) Firmware :
Version information of microprocessor
Series name (AAAA) and market area (BB) and software program version (0000)
- (2) Time : Total hour of turn the TV on. (Unit : H)
- (3) BL_STATUS :
Counter for saving BackLight on error.
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).

When the abnormal status is detected, type name of semiconductor is

indicated in red colour.

(6) Block

UV : TV reception mode

V1 - V9 : VIDEO 1-9 input mode

PC : PC mode

YUV : YUV 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 (Digital Only)

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_0000(C00)				
(2)	EEPROM	: 00(MODEL ID = 00)				
(3)	SUB MPU	: 00(NO RTC)				
(4)	OPTION	: 00 11 22 33 44 55 66 77 88				
(5)	HDMI ID	: 11223344				
(6)	DB SW Ver	: 0.00				
(7)	DB MW Ver	: 0.00/0.00				
(8)	A/D Adjust	:	COMP	PC	NTSC	PAL
		MAIN	OK	NG	OK	NG
		SUB	—	—	OK	NG
(9)	100Hz/120Hz	: 0000				
(10)	DRMA0000-REV00					
(11)	12345678	MODELNAME		DDD-00(EEE)		
		(12)		(13)		

(1) MAIN MPU :

Version information of microprocessor

Series name and Code Program Version (4 figure number) and OSD Version (2 figure number).

(2) EEPROM :

Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :

Version information of SUB MPU : Display 1 byte data.

(4) OPTION :

Option information : Display six numbers of 1 byte data.

(5) HDMI ID :

HDMI ID information : Display 4 byte data.

(6) SW Ver

Version information of DB software as Toshiba release. (Only digital model.)

(7) MW Ver

Left side is Application and UI version information of DB software. (Only digital model.)

Right side is Firmware (Driver) version information of DB software. (Only digital model.)

(8) A/D Adjust

A/D adjustment item.

--MAIN : It's enable only in double Window model. A/D adjustment status of main picture.

--SUB : It's enable only in double Window model. A/D adjustment status of sub picture.

--COMP : Component input

--PC : PC 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.

-- : A/D adjustment is not needed. Because its picture format isn't used.

(9) 100 Hz FPGA Software Version

It's enable only in 100 Hz drive panel model.

(10) Memory Data Version

Version information of EEPROM.

DRMA**** means model number of EEPROM.

REV** means version of EEPROM.

(11) CD number

CD information (ascii code). : Display 4 byte data.

(12) Model Name

Model name information (ascii code). : Display 7 byte data.

(13) LCD Panel Vendor information display

The following Panel Vender (DDD) and screen size (00) and resolution (EEE) are displayed.

Example : AUO-32 (1080p) indicates that Vender 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.

Status check		
(1)	MAIN	: ***** ***** *****
(2)	MAIN FORMAT	: 1080i-60
(3)	MAIN PLL	: 00 11 22 33 44
(4)	SUB	: ***** ***** *****
(5)	SUB FORMAT	: 576i
(6)	SUB PLL	: 00 11 22 33 44
(7)	SCREEN SIZE	: Super live
(8)	OTHER STATUS	: 0000 0000 0000

- (1) MAIN :

Main source information :

Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

- (2) MAIN FORMAT :

Display Video and PC format information

- (3) MAIN PLL :

Main PLL information : Display 1 byte data at five.

- (4) SUB :

Sub source information :

Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)

This item displays only Double window model.

- (5) SUB FORMAT :

Display Video and PC format information

This item displays only Double window model.

(6) SUB PLL :

Sub PLL information : Display 1 byte data at five.

This item displays only Double window model.

(7) SCREEN SIZE :

Display the screen size as follows.

Exact Scan
Wide
Super Live 2
Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

Note:

Exact Scan is shown only for 1080p panel model with video input mode except pc.

(8) 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 P▲ or P▼.

After selecting Hotel Mode, press  + to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of table bellow.

To move the cursor in the adjustment, press  + or  -.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OP2

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 Supere 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 of D1 from to D7)	Off (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)	

OP6

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.	

OP7

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.	

OP8

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 Indication

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.

TECHNICAL BULLETIN

File Name	Title	issuing date
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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 :

↓Select

▼

Location :

Search



Parts No. :

Search



Page :

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Jump









PARTS LIST

Block :

All Block▼

Loading ...

Block		Location	Parts No.	Description	AA	S
U01A POWER (PE0490)	*	U01A	75010693	PC BOARD ASSY, PE0490A, POWER		
U01A POWER (PE0490)	⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C		
U01A POWER (PE0490)	⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C		
U01A POWER (PE0490)	⚠	C811	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K		
U01A POWER (PE0490)	⚠	C812	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K		
U01A POWER (PE0490)	⚠	C813	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K		
U01A POWER (PE0490)	⚠	C814	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K		
U01A POWER (PE0490)		CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF		
U01A POWER (PE0490)		CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB		
U01A POWER (PE0490)		CE08	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1		
U01A POWER (PE0490)		CE09	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M		
U01A POWER (PE0490)		CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M		
U01A POWER (PE0490)		CE100	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z		
U01A POWER (PE0490)		CE102	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K		
U01A POWER (PE0490)	⚠	CE11	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M		
U01A POWER (PE0490)		CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M		
U01A POWER (PE0490)		CE160	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K		
U01A POWER (PE0490)		CE161	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K		
U01A POWER (PE0490)		CE17	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K		
U01A POWER (PE0490)		CE18	76092337	CAPACITOR, CERAMIC DISC, 2KV 220PF K		
U01A POWER (PE0490)	⚠	CE19	76503253	CAPACITOR, PLASTIC FILM, 1250VH 0.01UF H		
U01A POWER (PE0490)		CE200	75010686	CAPACITOR, ELECTROLYTIC, 25V 331M 8X11.5 105		
U01A POWER (PE0490)		CE201	75010688	CAPACITOR, ELECTROLYTIC, 16V 331M 8X11.5L 105		
U01A POWER (PE0490)		CE203	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K		
U01A POWER (PE0490)		CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K		
U01A POWER (PE0490)		CE24	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K		
U01A POWER (PE0490)		CE40	76073035	CAPACITOR, ELECTROLYTIC, 16V 22UF M		
U01A POWER (PE0490)		CE41	76073087	CAPACITOR, ELECTROLYTIC, 50V 22UF M		
U01A POWER (PE0490)		CE501	75010687	CAPACITOR, ELECTROLYTIC, 25V 471M 10X12.5 105		
U01A POWER (PE0490)		CE502	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB		
U01A POWER (PE0490)		CE504	75010690	CAPACITOR, ELECTROLYTIC, 25V 102M 12.5X20L 105		
U01A POWER (PE0490)		CE571	75010687	CAPACITOR, ELECTROLYTIC, 25V 471M 10X12.5 105		
U01A POWER (PE0490)		CE572	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K		
U01A POWER (PE0490)		CE573	75010689	CAPACITOR, ELECTROLYTIC, 16V 821M 10X20L 105		
U01A POWER (PE0490)		CE60	76092795	CAPACITOR, CERAMIC CHIP, 6.3V B 2.2UF K		
U01A POWER (PE0490)		CE602	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K		
U01A POWER (PE0490)		CE61	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K		
U01A POWER (PE0490)		CE63	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K		
U01A POWER (PE0490)		CE701	75010687	CAPACITOR, ELECTROLYTIC, 25V 471M 10X12.5 105		
U01A POWER (PE0490)		CE702	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K		
U01A POWER (PE0490)		CE704	75010689	CAPACITOR, ELECTROLYTIC, 16V 821M 10X20L 105		
U01A POWER (PE0490)		CE80	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K		
U01A POWER (PE0490)		CE800	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M		
U01A POWER (PE0490)		CE801	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K		
U01A POWER (PE0490)		CE803	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K		
U01A POWER (PE0490)		CE805	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K		

U01A POWER (PE0490)		CE806	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
U01A POWER (PE0490)		CE84	76073179	CAPACITOR, ELECTROLYTIC, 25V 4700UF M
U01A POWER (PE0490)		CE901	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1
U01A POWER (PE0490)		CE902	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
U01A POWER (PE0490)		CE903	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
U01A POWER (PE0490)		D899	75010691	VARISTOR, V1MA=470V 1TIME= 3500A, ERZV10V471
U01A POWER (PE0490)		DE01	23362204	DIODE, D3SB60, 7109F08
U01A POWER (PE0490)		DE06	23357366	DIODE, FR105-B5
U01A POWER (PE0490)		DE07	23357900	DIODE, ZENER, MTZJ33B
U01A POWER (PE0490)		DE11	23357709	DIODE, RU1P
U01A POWER (PE0490)		DE200	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE201	23357842	DIODE, ZENER, MTZJ6.8B
U01A POWER (PE0490)		DE30	23357697	DIODE, 1SS133
U01A POWER (PE0490)		DE41	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE50	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE501	23357783	DIODE, ZENER, MA8180-L, TX
U01A POWER (PE0490)		DE502	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE57	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE60	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE70	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE75	23357408	DIODE, FMX-12S(023-108)
U01A POWER (PE0490)		DE75B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		DE800	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE801	23357844	DIODE, ZENER, MTZJ7.5A
U01A POWER (PE0490)		DE901	23357865	DIODE, ZENER, MTZJ12B
U01A POWER (PE0490)		F801	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
U01A POWER (PE0490)		F801A	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)		F801B	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)		FE01	75005841	FUSE, RADIAL, 5RT 3.15A
U01A POWER (PE0490)		L801	75010393	TRANSFORMER, CHOKE, TPW-31MH
U01A POWER (PE0490)		L811	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		L812	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE11	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE12	23103330	FERRITE CHOKE, 3.5X5X2, TEM2014AH
U01A POWER (PE0490)		LE201	23248399	COIL, CHOKE, TLN3283D
U01A POWER (PE0490)		LE202	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE50	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE57	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE61	23289052	COIL, PEAKING, TRF4680AU
U01A POWER (PE0490)		LE70	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE800	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE801	75005857	COIL, CHOKE, 100MMH M 2.3A, RCP1317NP-101M
U01A POWER (PE0490)		P801A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)		P802A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)		P950A	75008267	CONNECTOR, W-B 2.0MM 14P VERTICAL, B14B-PH-H
U01A POWER (PE0490)		P951A	23713945	CONNECTOR, B13B-PH-K-S(LF)
U01A POWER (PE0490)		PG03	23165495	EARTH TERMINAL, MET31-0332

U01A POWER (PE0490)		QE01	75008362	IC, STR-Y6476
U01A POWER (PE0490)		QE01B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE02	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE03	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE100	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE101	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE102	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE160	23085415	IC, BD4746G
U01A POWER (PE0490)		QE20	75003051	IC, SI-8050W-TL
U01A POWER (PE0490)		QE26	75010692	IC, PHOTO COUPLER, TLP421F(GR, J)
U01A POWER (PE0490)		QE30	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE31	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE41	75010239	TRANSISTOR, 2SJ668(TE16L1, NQ)
U01A POWER (PE0490)		QE42	23205506	TRANSISTOR, 2SC4081 Q
U01A POWER (PE0490)		QE50	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE501	23205339	TRANSISTOR, 2SC2655-Y(F)
U01A POWER (PE0490)		QE502	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE503	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE50B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE57	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE571	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE572	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE57B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE60	75004806	IC, PQ6CU12X2APQ
U01A POWER (PE0490)		QE70	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE701	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE70B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE72	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE80	75005723	IC, MP1591DS-LF-Z
U01A POWER (PE0490)		QE81	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE83	23085587	IC, TA76431S
U01A POWER (PE0490)		QE90	75004076	IC, PQ090RDA1SZH
U01A POWER (PE0490)		QE92	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE93	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		R801	76017004	RESISTOR, METAL GLAZE 1/2W 510K J
U01A POWER (PE0490)		R899	76005014	RESISTOR, METAL FILM, 1W 8.2M OHM J
U01A POWER (PE0490)		RE01	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE02	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE06	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE07	76011224	RESISTOR, CHIP, 1/20W 220K OHM J
U01A POWER (PE0490)		RE08	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE09	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE10	76554683	RESISTOR, OXIDE METAL FILM, 2W 68K OHM J
U01A POWER (PE0490)		RE100	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE101	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE105	76011471	RESISTOR, CHIP, 1/20W 470 OHM J

U01A POWER (PE0490)	RE106	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)	RE107	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE110	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)	RE111	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)	RE12	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
U01A POWER (PE0490)	RE13	76366104	RESISTOR, CARBON FILM, 1/6W 100K OHM J
U01A POWER (PE0490)	RE16	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE160	75006063	RESISTOR, CR1/16 183DV
U01A POWER (PE0490)	RE161	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)	RE162	75006059	RESISTOR, CR1/16 682DV
U01A POWER (PE0490)	RE163	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)	RE164	76011561	RESISTOR, CHIP, 1/20W 560 OHM J
U01A POWER (PE0490)	RE165	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
U01A POWER (PE0490)	RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
U01A POWER (PE0490)	RE19	76552150	RESISTOR, OXIDE METAL FILM, 1/2W 15 OHM J
U01A POWER (PE0490)	RE200	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)	RE29	76321129	RESISTOR, OXIDE METAL FILM, 1/2W 1.2 OHM J
U01A POWER (PE0490)	RE30	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)	RE31	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
U01A POWER (PE0490)	RE32	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)	RE41	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE42	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)	RE43	76011153	RESISTOR, CHIP, 1/20W 15K OHM J
U01A POWER (PE0490)	RE44	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)	RE45	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)	RE501	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)	RE502	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)	RE503	75006061	RESISTOR, CR1/16 123DV
U01A POWER (PE0490)	RE506	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE507	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE508	76553680	RESISTOR, OXIDE METAL FILM, 1W 68 OHM J
U01A POWER (PE0490)	RE509	76366472	RESISTOR, CARBON FILM, 1/6W 4.7K OHM J
U01A POWER (PE0490)	RE511	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE512	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE571	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)	RE572	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U01A POWER (PE0490)	RE573	75006570	RESISTOR, CR1/16 472DV
U01A POWER (PE0490)	RE575	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)	RE576	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE577	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE60	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)	RE61	76011124	RESISTOR, CHIP, 1/20W 120K OHM J
U01A POWER (PE0490)	RE62	76011274	RESISTOR, CHIP, 1/20W 270K OHM J
U01A POWER (PE0490)	RE63	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
U01A POWER (PE0490)	RE64	76019388	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)	RE701	75010685	RESISTOR, CR1/16 751DV
U01A POWER (PE0490)	RE702	76011470	RESISTOR, CHIP, 1/20W 47 OHM J

U01A POWER (PE0490)		RE703	75005132	RESISTOR, CR1/16 272DV
U01A POWER (PE0490)		RE705	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)		RE706	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE707	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE710	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE711	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE712	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE800	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
U01A POWER (PE0490)		RE801	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE802	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE803	76011392	RESISTOR, CHIP, 1/20W 3.9K OHM J
U01A POWER (PE0490)		RE804	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE805	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)		RE81	76871472	RESISTOR, CHIP, 1/8W 4.7K OHM J
U01A POWER (PE0490)		RE810	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE82	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
U01A POWER (PE0490)		RE83	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)		RE84	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
U01A POWER (PE0490)		RE85	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE86	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE91	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE92	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE93	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE94	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE95	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)	⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
U01A POWER (PE0490)	⚠	T801	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)	⚠	T802	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)	⚠	TE62	75008361	TRANSFORMER, SRW2630EG-204V017
U01A POWER (PE0490)		ZE41	75008909	RESISTOR, 1/4W 0.084M OHM M, TPR2000F
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, ESRE100ETC7
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, ESRE100ETC7
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
U03AS MAIN (PE0492)	* U03AS	75010765	PC BOARD ASSY, PE0492A, MAIN
U03AS MAIN (PE0492)	C1002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1003	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1005	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1006	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1007	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1008	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C1013	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1014	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C1015	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1016	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C1017	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1019	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1020	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)	C1021	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1022	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1023	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)	C1024	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1026	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1027	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1029	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1030	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1031	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1032	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1033	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1034	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1036	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C1037	75010712	CHIP CERAMIC CAPACITOR (1005)

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U03AS MAIN (PE0492)		C1104	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1105	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1106	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1107	75008344	NEOCAPACITOR (PSL)
U03AS MAIN (PE0492)		C1108	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1109	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1110	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1120	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1121	75009864	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2000	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2001	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2003	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2004	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2005	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2006	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2007	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2008	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2009	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2010	75009867	CHIP CERAMIC CAPACITOR (1005)

PARTS LIST

Block :

U01A POWER (PE0490) ▼

Block		Location	Parts No.	Description	AA	S	M	L
U01A POWER (PE0490)	*	U01A	75010693	PC BOARD ASSY, PE0490A, POWER				
U01A POWER (PE0490)	⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C				
U01A POWER (PE0490)	⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C				
U01A POWER (PE0490)	⚠	C811	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K				
U01A POWER (PE0490)	⚠	C812	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K				
U01A POWER (PE0490)	⚠	C813	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K				
U01A POWER (PE0490)	⚠	C814	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K				
U01A POWER (PE0490)		CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF				
U01A POWER (PE0490)		CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474				
U01A POWER (PE0490)		CE08	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334K				
U01A POWER (PE0490)		CE09	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M				
U01A POWER (PE0490)		CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M				
U01A POWER (PE0490)		CE100	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z				
U01A POWER (PE0490)		CE102	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K				
U01A POWER (PE0490)	⚠	CE11	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M				
U01A POWER (PE0490)		CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M				
U01A POWER (PE0490)		CE160	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K				
U01A POWER (PE0490)		CE161	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K				
U01A POWER (PE0490)		CE17	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K				
U01A POWER (PE0490)		CE18	76092337	CAPACITOR, CERAMIC DISC, 2KV 220PF K				
U01A POWER (PE0490)	⚠	CE19	76503253	CAPACITOR, PLASTIC FILM, 1250VH 0.01UF H				
U01A POWER (PE0490)		CE200	75010686	CAPACITOR, ELECTROLYTIC, 25V 331M 8X11.5 105DO 800				
U01A POWER (PE0490)		CE201	75010688	CAPACITOR, ELECTROLYTIC, 16V 331M 8X11.5L 105DO, UF				
U01A POWER (PE0490)		CE203	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K				
U01A POWER (PE0490)		CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K				
U01A POWER (PE0490)		CE24	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K				
U01A POWER (PE0490)		CE40	76073035	CAPACITOR, ELECTROLYTIC, 16V 22UF M				
U01A POWER (PE0490)		CE41	76073087	CAPACITOR, ELECTROLYTIC, 50V 22UF M				
U01A POWER (PE0490)		CE501	75010687	CAPACITOR, ELECTROLYTIC, 25V 471M 10X12.5 105DO 10				
U01A POWER (PE0490)		CE502	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474				
U01A POWER (PE0490)		CE504	75010690	CAPACITOR, ELECTROLYTIC, 25V 102M 12.5X20L 105DO, U				
U01A POWER (PE0490)		CE571	75010687	CAPACITOR, ELECTROLYTIC, 25V 471M 10X12.5 105DO 10				
U01A POWER (PE0490)		CE572	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K				
U01A POWER (PE0490)		CE573	75010689	CAPACITOR, ELECTROLYTIC, 16V 821M 10X20L 105DO, UP				
U01A POWER (PE0490)		CE60	76092795	CAPACITOR, CERAMIC CHIP, 6.3V B 2.2UF K				
U01A POWER (PE0490)		CE602	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K				
U01A POWER (PE0490)		CE61	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K				
U01A POWER (PE0490)		CE63	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K				
U01A POWER (PE0490)		CE701	75010687	CAPACITOR, ELECTROLYTIC, 25V 471M 10X12.5 105DO 10				
U01A POWER (PE0490)		CE702	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K				
U01A POWER (PE0490)		CE704	75010689	CAPACITOR, ELECTROLYTIC, 16V 821M 10X20L 105DO, UP				
U01A POWER (PE0490)		CE80	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K				
U01A POWER (PE0490)		CE800	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M				
U01A POWER (PE0490)		CE801	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K				
U01A POWER (PE0490)		CE803	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K				
U01A POWER (PE0490)		CE805	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K				

U01A POWER (PE0490)		CE806	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
U01A POWER (PE0490)		CE84	76073179	CAPACITOR, ELECTROLYTIC, 25V 4700UF M
U01A POWER (PE0490)		CE901	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334K
U01A POWER (PE0490)		CE902	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
U01A POWER (PE0490)		CE903	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
U01A POWER (PE0490)		D899	75010691	VARISTOR, V1MA=470V 1TIME= 3500A, ERZV10V471CS
U01A POWER (PE0490)		DE01	23362204	DIODE, D3SB60, 7109F08
U01A POWER (PE0490)		DE06	23357366	DIODE, FR105-B5
U01A POWER (PE0490)		DE07	23357900	DIODE, ZENER, MTZJ33B
U01A POWER (PE0490)		DE11	23357709	DIODE, RU1P
U01A POWER (PE0490)		DE200	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE201	23357842	DIODE, ZENER, MTZJ6.8B
U01A POWER (PE0490)		DE30	23357697	DIODE, 1SS133
U01A POWER (PE0490)		DE41	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE50	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE501	23357783	DIODE, ZENER, MA8180-L, TX
U01A POWER (PE0490)		DE502	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE57	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE60	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE70	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE75	23357408	DIODE, FMX-12S(023-108)
U01A POWER (PE0490)		DE75B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		DE800	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE801	23357844	DIODE, ZENER, MTZJ7.5A
U01A POWER (PE0490)		DE901	23357865	DIODE, ZENER, MTZJ12B
U01A POWER (PE0490)		F801	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
U01A POWER (PE0490)		F801A	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)		F801B	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)		FE01	75005841	FUSE, RADIAL, 5RT 3.15A
U01A POWER (PE0490)		L801	75010393	TRANSFORMER, CHOKE, TPW-31MH
U01A POWER (PE0490)		L811	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		L812	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE11	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE12	23103330	FERRITE CHOKE, 3.5X5X2, TEM2014AH
U01A POWER (PE0490)		LE201	23248399	COIL, CHOKE, TLN3283D
U01A POWER (PE0490)		LE202	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE50	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE57	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE61	23289052	COIL, PEAKING, TRF4680AU
U01A POWER (PE0490)		LE70	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE800	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE801	75005857	COIL, CHOKE, 100MMH M 2.3A, RCP1317NP-101M
U01A POWER (PE0490)		P801A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)		P802A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)		P950A	75008267	CONNECTOR, W-B 2.0MM 14P VERTICAL, B14B-PH-K-S(LF)
U01A POWER (PE0490)		P951A	23713945	CONNECTOR, B13B-PH-K-S(LF)
U01A POWER (PE0490)		PG03	23165495	EARTH TERMINAL, MET31-0332

U01A POWER (PE0490)		QE01	75008362	IC, STR-Y6476
U01A POWER (PE0490)		QE01B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE02	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE03	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE100	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE101	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE102	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE160	23085415	IC, BD4746G
U01A POWER (PE0490)		QE20	75003051	IC, SI-8050W-TL
U01A POWER (PE0490)	⚠	QE26	75010692	IC, PHOTO COUPLER, TLP421F(GR, J)
U01A POWER (PE0490)		QE30	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE31	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE41	75010239	TRANSISTOR, 2SJ668(TE16L1, NQ)
U01A POWER (PE0490)		QE42	23205506	TRANSISTOR, 2SC4081 Q
U01A POWER (PE0490)		QE50	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE501	23205339	TRANSISTOR, 2SC2655-Y(F)
U01A POWER (PE0490)		QE502	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE503	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE50B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE57	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE571	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE572	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE57B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE60	75004806	IC, PQ6CU12X2APQ
U01A POWER (PE0490)		QE70	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE701	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE70B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE72	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE80	75005723	IC, MP1591DS-LF-Z
U01A POWER (PE0490)		QE81	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE83	23085587	IC, TA76431S
U01A POWER (PE0490)		QE90	75004076	IC, PQ090RDA1SZH
U01A POWER (PE0490)		QE92	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE93	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)	⚠	R801	76017004	RESISTOR, METAL GLAZE 1/2W 510K J
U01A POWER (PE0490)	⚠	R899	76005014	RESISTOR, METAL FILM, 1W 8.2M OHM J
U01A POWER (PE0490)		RE01	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE02	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE06	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE07	76011224	RESISTOR, CHIP, 1/20W 220K OHM J
U01A POWER (PE0490)		RE08	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE09	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE10	76554683	RESISTOR, OXIDE METAL FILM, 2W 68K OHM J
U01A POWER (PE0490)		RE100	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE101	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE105	76011471	RESISTOR, CHIP, 1/20W 470 OHM J

U01A POWER (PE0490)	RE106	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)	RE107	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE110	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)	RE111	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)	RE12	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
U01A POWER (PE0490)	RE13	76366104	RESISTOR, CARBON FILM, 1/6W 100K OHM J
U01A POWER (PE0490)	RE16	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE160	75006063	RESISTOR, CR1/16 183DV
U01A POWER (PE0490)	RE161	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)	RE162	75006059	RESISTOR, CR1/16 682DV
U01A POWER (PE0490)	RE163	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)	RE164	76011561	RESISTOR, CHIP, 1/20W 560 OHM J
U01A POWER (PE0490)	RE165	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
U01A POWER (PE0490)	RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
U01A POWER (PE0490)	RE19	76552150	RESISTOR, OXIDE METAL FILM, 1/2W 15 OHM J
U01A POWER (PE0490)	RE200	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)	RE29	76321129	RESISTOR, OXIDE METAL FILM, 1/2W 1.2 OHM J
U01A POWER (PE0490)	RE30	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)	RE31	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
U01A POWER (PE0490)	RE32	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)	RE41	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE42	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)	RE43	76011153	RESISTOR, CHIP, 1/20W 15K OHM J
U01A POWER (PE0490)	RE44	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)	RE45	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)	RE501	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)	RE502	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)	RE503	75006061	RESISTOR, CR1/16 123DV
U01A POWER (PE0490)	RE506	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE507	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE508	76553680	RESISTOR, OXIDE METAL FILM, 1W 68 OHM J
U01A POWER (PE0490)	RE509	76366472	RESISTOR, CARBON FILM, 1/6W 4.7K OHM J
U01A POWER (PE0490)	RE511	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE512	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE571	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)	RE572	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U01A POWER (PE0490)	RE573	75006570	RESISTOR, CR1/16 472DV
U01A POWER (PE0490)	RE575	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)	RE576	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)	RE577	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)	RE60	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)	RE61	76011124	RESISTOR, CHIP, 1/20W 120K OHM J
U01A POWER (PE0490)	RE62	76011274	RESISTOR, CHIP, 1/20W 270K OHM J
U01A POWER (PE0490)	RE63	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
U01A POWER (PE0490)	RE64	76019388	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)	RE701	75010685	RESISTOR, CR1/16 751DV
U01A POWER (PE0490)	RE702	76011470	RESISTOR, CHIP, 1/20W 47 OHM J

U01A POWER (PE0490)		RE703	75005132	RESISTOR, CR1/16 272DV
U01A POWER (PE0490)		RE705	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)		RE706	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE707	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE710	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE711	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE712	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE800	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
U01A POWER (PE0490)		RE801	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE802	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE803	76011392	RESISTOR, CHIP, 1/20W 3.9K OHM J
U01A POWER (PE0490)		RE804	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE805	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)		RE81	76871472	RESISTOR, CHIP, 1/8W 4.7K OHM J
U01A POWER (PE0490)		RE810	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE82	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
U01A POWER (PE0490)		RE83	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)		RE84	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
U01A POWER (PE0490)		RE85	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE86	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE91	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE92	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE93	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE94	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE95	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
U01A POWER (PE0490)		T801	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)		T802	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)		TE62	75008361	TRANSFORMER, SRW2630EG-204V017
U01A POWER (PE0490)		ZE41	75008909	RESISTOR, 1/4W 0.084M OHM M, TPR2000F

PARTS LIST

Block : U02A KEY/LED/RMT (PE0491) ▼

Block		Location	Parts No.	Description	AA	S	M	L		
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, ESRE100ETC						
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, ESRE100ETC						
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 :

U03AS MAIN (PE0492)

Loading ...

Block		Location	Parts No.	Description	AA	S	M	L		
U03AS MAIN (PE0492)	*	U03AS	75010765	PC BOARD ASSY, PE0492A, MAIN						
U03AS MAIN (PE0492)		C1002	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1003	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1005	75007603	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1006	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1007	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1008	75009874	CHIP CERAMIC CAPACITOR (2012)						
U03AS MAIN (PE0492)		C1013	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1014	75009881	CHIP CERAMIC CAPACITOR (2012)						
U03AS MAIN (PE0492)		C1015	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1016	75009881	CHIP CERAMIC CAPACITOR (2012)						
U03AS MAIN (PE0492)		C1017	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1019	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1020	75009861	CHIP CERAMIC CAPACITOR (1608)						
U03AS MAIN (PE0492)		C1021	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1022	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1023	75009861	CHIP CERAMIC CAPACITOR (1608)						
U03AS MAIN (PE0492)		C1024	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1026	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1027	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1029	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1030	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1031	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1032	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1033	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1034	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1036	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1037	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1041	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1042	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1043	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1044	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1045	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1046	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1047	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1048	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1051	75010976	CHIP CERAMIC CAPACITOR (1608)						
U03AS MAIN (PE0492)		C1055	75008345	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1056	75005812	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1057	75005812	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1058	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1060	75009870	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1064	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1065	75009867	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1066	75010712	CHIP CERAMIC CAPACITOR (1005)						
U03AS MAIN (PE0492)		C1067	75009867	CHIP CERAMIC CAPACITOR (1005)						

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U03AS MAIN (PE0492)		C2009	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2010	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2011	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2012	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2013	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2014	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2015	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2016	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2017	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2018	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2019	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2020	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2021	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2022	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2023	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2024	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2025	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2026	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2027	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2107	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2108	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2109	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2205	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2206	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2207	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2208	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2700	75009864	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2701	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2702	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2704	75006011	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2705	75007607	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2711	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2712	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2715	75007607	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2805	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2806	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2807	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2808	75007604	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2809	75007605	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2810	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3001	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3005	75009856	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C3006	75009856	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C3501	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3502	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3503	75009861	CHIP CERAMIC CAPACITOR (1608)

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U03AS MAIN (PE0492)		C4319	75009868	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4320	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4321	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4322	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4323	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4324	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4400	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4401	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4406	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4501	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4502	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4506	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4507	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4509	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4511	75009852	CAPACITOR CHIP CERA 25V 104S 3
U03AS MAIN (PE0492)		C4512	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4513	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4514	75008340	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4515	75009866	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4516	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4517	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4518	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4519	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4520	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4522	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4523	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4524	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4525	75009866	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4526	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4527	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4528	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4529	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4530	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4531	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4532	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4580	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4581	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4590	75010144	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4591	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4600	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4601	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4602	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4700	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4702	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4703	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4704	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4705	75009877	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)	C4706	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4707	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4708	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4710	75009852	CAPACITOR CHIP CERA 25V 104S 3
U03AS MAIN (PE0492)	C4800	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4801	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4802	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4803	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4804	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4805	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4806	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4807	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4811	75009240	CHIP THREE TERMINAL CAPACITOR
U03AS MAIN (PE0492)	C4900	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4901	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4902	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4903	75008344	NEOCAPACITOR (PSL)
U03AS MAIN (PE0492)	C4904	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4905	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4906	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4907	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4908	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4912	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4913	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4914	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4915	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4916	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C4918	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4919	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4920	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C4921	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5008	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5009	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C5010	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5011	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)	C5103	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5104	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5201	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5202	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5203	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5204	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5205	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5400	75009860	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)	C5401	75009860	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)	C5402	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5403	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)	C5404	75009874	CHIP CERAMIC CAPACITOR (2012)

U03AS MAIN (PE0492)		C5405	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5406	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5407	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5500	75009876	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5501	75009239	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5502	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5504	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5507	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5510	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5600	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5601	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5602	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5603	75009934	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5605	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5606	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5607	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6001	75006013	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6002	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6003	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6004	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6005	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6006	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6007	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6008	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6009	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6010	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6011	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6012	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6013	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6014	75006013	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6015	75006013	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6016	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6017	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6018	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6019	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6020	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6021	75009866	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6022	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6023	75009880	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6024	75006004	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6025	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6026	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6029	75009862	CHIP CERAMIC CAPACITOR (3216)
U03AS MAIN (PE0492)		C6030	75009862	CHIP CERAMIC CAPACITOR (3216)
U03AS MAIN (PE0492)		C6031	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6032	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6033	75008536	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)		C6034	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6035	75009870	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6036	75007614	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6037	75005813	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6038	75006004	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6039	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6040	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6041	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6042	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6043	75010770	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6044	75010770	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6045	75010770	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6050	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6060	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6063	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6066	75007609	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6070	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6071	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6072	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6073	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6074	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6075	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6076	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6077	75006009	CHIP CERAMIC CAPACITOR (2012)
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U03AS MAIN (PE0492)		C6081	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6082	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6083	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6101	75005755	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6102	75006010	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6103	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6104	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6105	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6106	75005709	CAPACITOR CHIP CERA 50V B 474K
U03AS MAIN (PE0492)		C6107	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6108	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6109	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6110	75005755	CHIP CERAMIC CAPACITOR (1005)
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U03AS MAIN (PE0492)		C6114	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6115	75005709	CAPACITOR CHIP CERA 50V B 474K
U03AS MAIN (PE0492)		C6116	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6117	75009853	CHIP CERAMIC CAPACITOR (1608)

U03AS MAIN (PE0492)		C6118	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6119	75006010	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6120	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6121	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6122	75010772	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6123	75010772	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6124	75008346	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6125	75008340	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6126	76073057	CE04P1E102M
U03AS MAIN (PE0492)		C6127	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6128	75009868	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6129	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6130	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6131	75002273	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6132	75010714	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6133	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6134	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6136	75006008	CHIP CERAMIC CAPACITOR (2012)
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U03AS MAIN (PE0492)		C6138	75009927	CHIP CERAMIC CAPACITOR (1608)
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U03AS MAIN (PE0492)		C6140	75006010	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6171	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6172	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6301	76073005	CE04P0J102M
U03AS MAIN (PE0492)		C6303	75007612	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6401	75006008	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6402	75006008	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6403	75007605	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6404	75007605	CHIP CERAMIC CAPACITOR (1005)
				
				
				

PARTS LIST

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Location : 

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Parts No. : 

Block		Location	Parts No.	Description	AA	S	M	L		
Miscellaneous		B001A	75010757	LCD PANEL, AX094B002B						
Miscellaneous		H001	75010735	TUNER, ENG37E05KF						
Miscellaneous		MZ01A	75010736	WIRE HARNESS, MF0112						
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		W661	75010342	SPEAKER, SPK1503AM, 120X35 8OHM 10W						

PARTS LIST

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Accessory

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Search

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Search

Block		Location	Parts No.	Description	AA	S	M	L		
Accessory		Y101	75010738	OWNERS MANUAL, ENGLISH						
Accessory		Y101E	75010740	OWNERS MANUAL, EURO						
Accessory		Y102E	75010741	OWNERS MANUAL, E-EURO						
Accessory		Y105	75010347	OWNERS MANUAL, STD EU						
Accessory		Y110	75010739	OWNERS MANUAL, QSUG						
Accessory		Y114	75010742	OWNERS MANUAL, ITALIAN, SCHEMA						
Accessory		Y115	75009771	OWNERS MANUAL, XF DIGITAL UK RETUNE GUIDE						
Accessory		Y130	75010737	REMOCON HAND UNIT, CT-90300						
Accessory		Y170	23845800	HOLDER, WIRE, NYLON66 D6.8						
Accessory		Y186	75009788	CLOTH, CLEAN, XF350P						

PARTS LIST

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Cabinet

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Parts No. :

Search

Block		Location	Parts No.	Description	AA	S	M	L		
Cabinet		A201	75010748	FRONT BEZEL ASSY						
Cabinet		A401	75010749	BACK COVER ASSY						
Cabinet		A411	23717267	SCREW, BITTB4X16 SBN						
Cabinet		A412	75010345	SCREW, BITTB3X8 SBN						
Cabinet		A420	75010750	STAND STAY ASSY						
Cabinet		A421	75010751	BASE COVER SET						
Cabinet		A430	75005733	PIECE CLAMP HOLDER						

PARTS LIST

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Packing

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Parts No. :

Search 







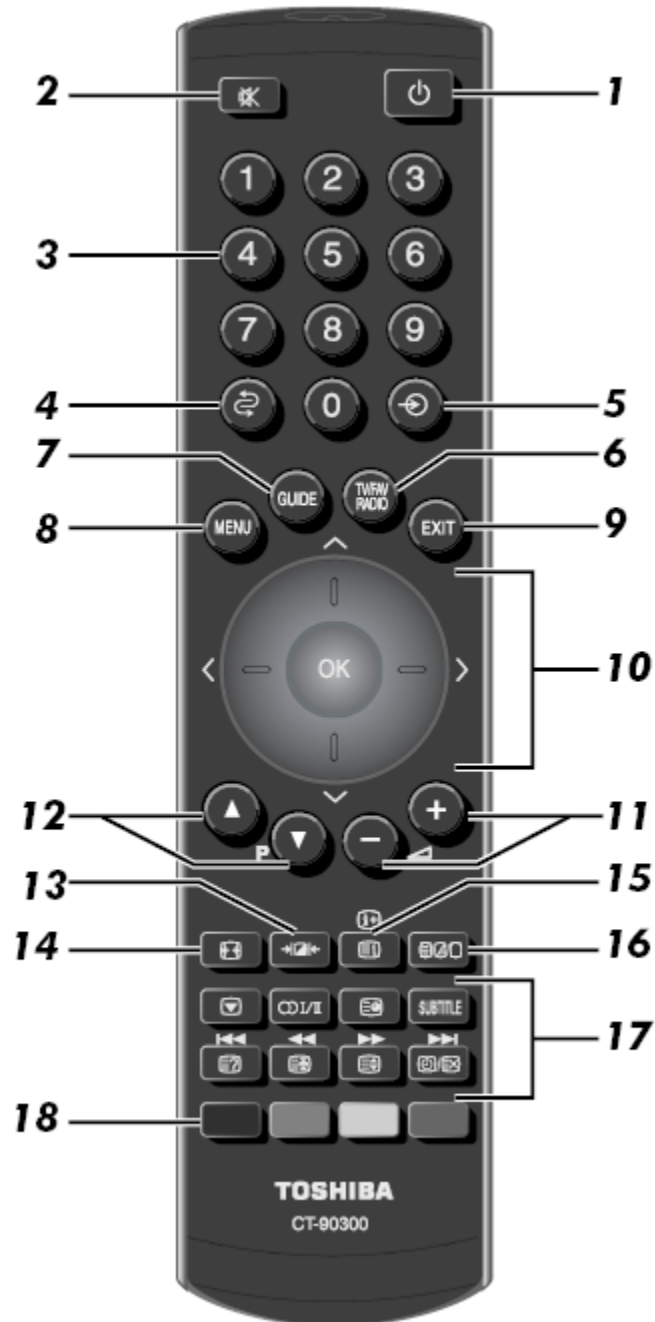


Block		Location	Parts No.	Description	AA	S	M	L		
Packing		A701	75010752	CARTON BOX , TPO						
Packing		A702A	75010754	PAD, TOP PACKING						
Packing		A702B	75010755	PAD, BOTTOM PACKING						

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 switch between TV, Radio and Favourite programmes 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 $\wedge$ (up), $\vee$ (down), $\leftarrow$ (left) and $\rightarrow$ (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

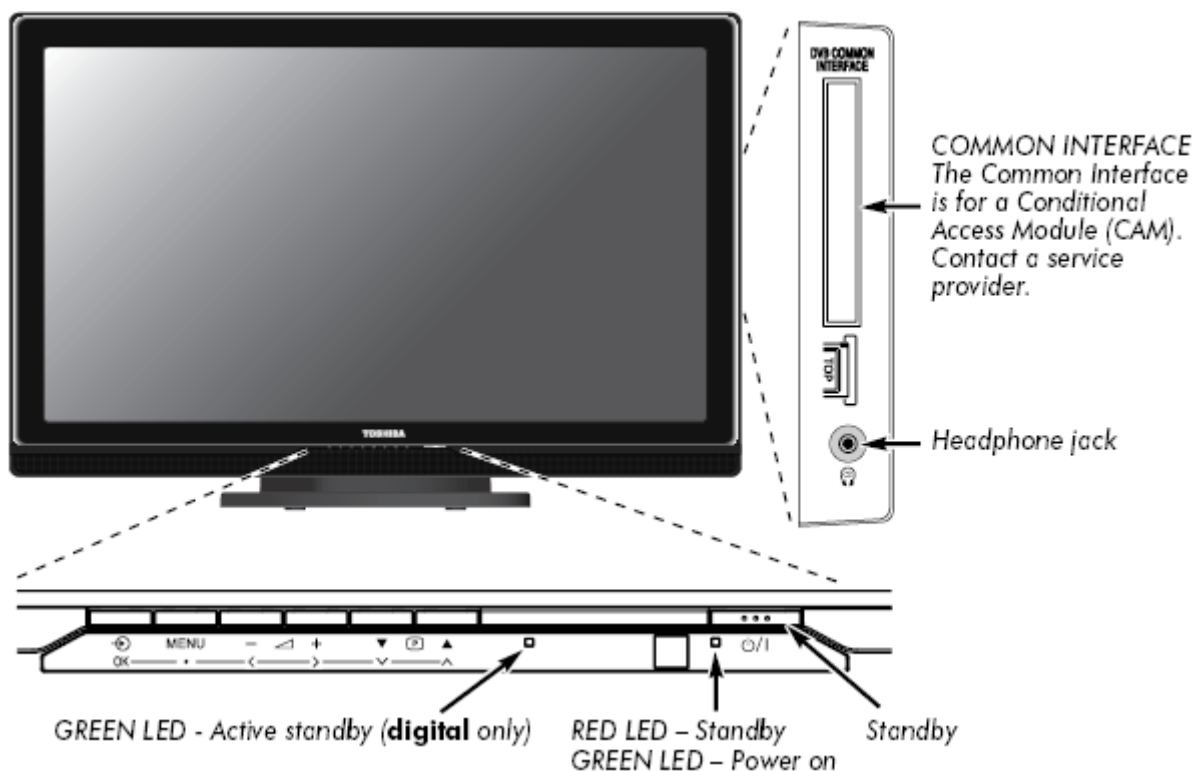
When using the Programme Guide:

	- 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.

To put the television into Standby press **⏻** on the remote control, the GREEN active standby LED will appear (see 'Software Upgrade' section) next to the RED for a few moments then disappear. 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.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the < or > button on the remote control, its respective options will appear below.

In **analogue** mode 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.

To use the options press the ^ and v button 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 the external input, press  until the appropriate input source is selected.

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

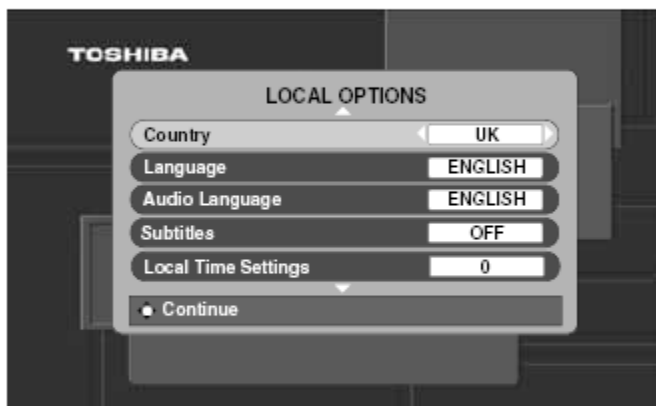
FUNCTION AND OPERATION

Tuning Digital Television

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

Tuning for the First Time

- 1 Press the **⏻** button, the **LOCAL OPTIONS** screen will appear. This screen will appear the first time that the television is switched on and each time the television is reset.

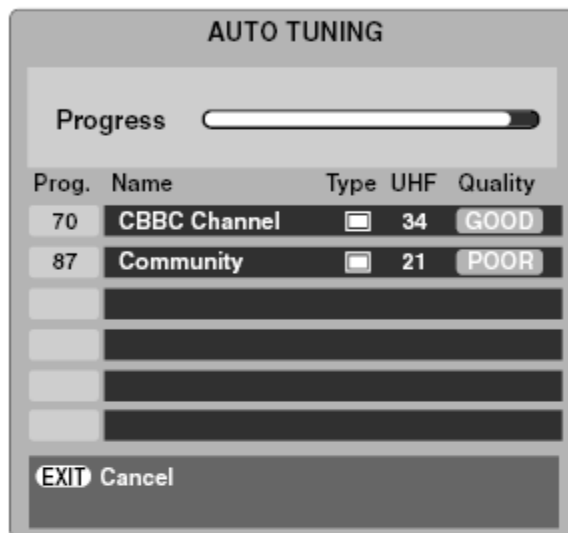


- 2 Press **▼** to highlight **Country** and **<** or **>** to select. The television will now tune the stations for your country.
- 3 Using **▼** highlight **Language**, then **<** or **>** to select.

- 4 Press **OK** to start tuning.

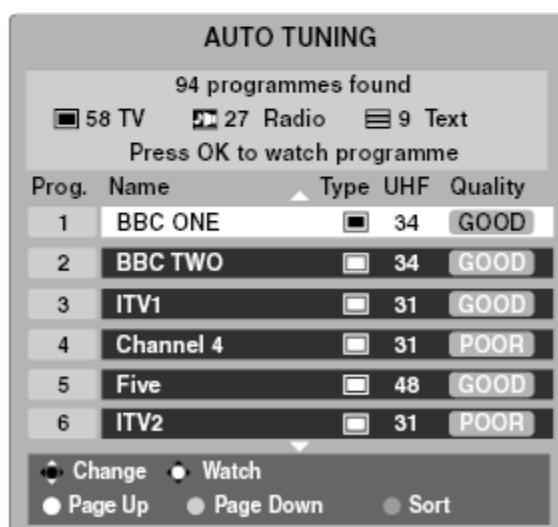
The **AUTO TUNING** screen will appear and the television will start to search for available stations. The progress bar will move along the line.

You must allow the television to complete the search.



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

The **AUTO TUNING** screen will display the total number of services found.



- 5 Use **▼** or **▲** to move through the list to select a programme then press **OK** to view.

NOTE: The time will be set automatically by

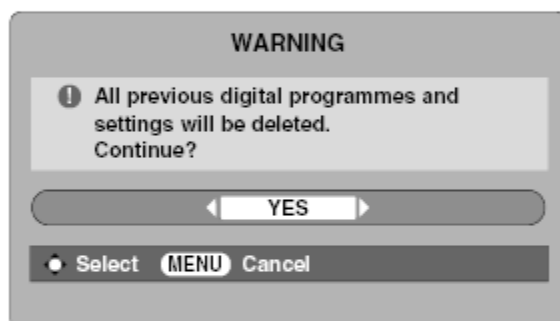
Digital auto tuning

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

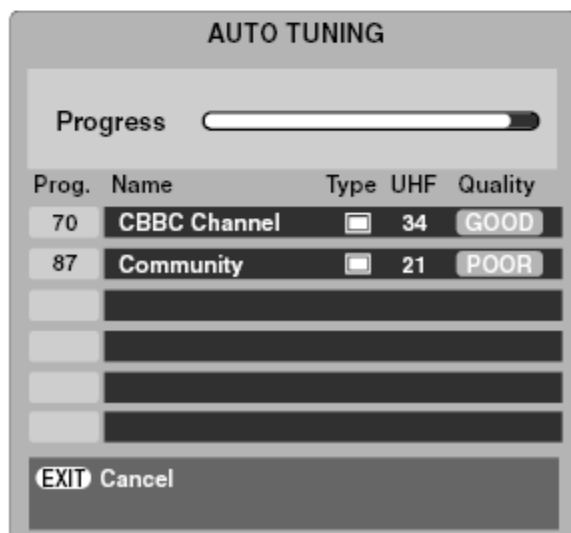
Auto tuning will completely re-tune the television and can be used to up date the channel list.

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 , the **SETUP MENU** will appear. Use  to highlight **Auto tuning**. Press .
- 2 A screen will appear warning that previous digital programmes and settings will be deleted. Press  to continue with the **Auto tuning**.

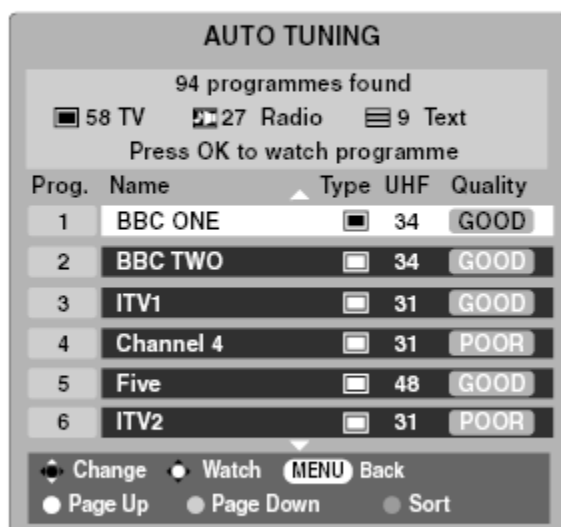


The television will start to search for all available stations.



You must allow the television to complete the search.

When the search is complete the **Auto tuning** screen will display the total number of services found.



- 3** Use ∇ or $\blacktriangle$ to move through the list to select a programme then press **OK** to view.

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 (see the 'Auto tuning' section).

Digital programme sorting

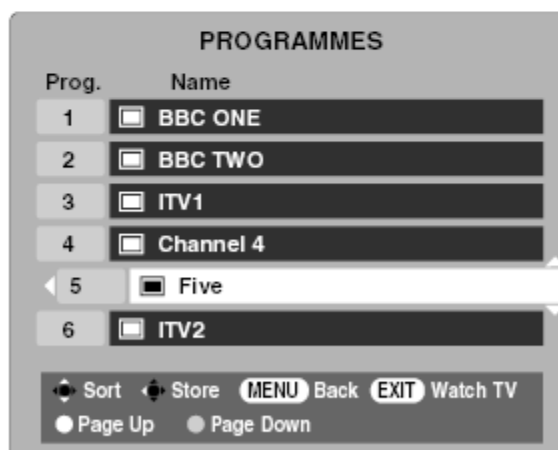
NOTE: When the television is switched off the mode being viewed at the time will automatically be selected when the television is switched back on.

- 1 The station order may be changed to suit personal preference. Press **MENU**, the **SETUP MENU** will appear on screen.
- 2 Use **▼** to move down through the list and highlight **Programmes**. Press **OK**.



- 3 With the list of stations now showing use **▼** or **▲** to highlight the station you want to move and press **➤**.

The selected station will be moved to the right of the screen.



- 4 Use **▼** or **▲** to move through the list to your preferred position. As you do so the other stations will move to make room.
- 5 Press **◀** to store your move. Repeat as necessary, then press **EXIT**.

Digital 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 **Manual tuning** from the **SETUP MENU** and press **OK**.
- 2** Enter the multiplex number using the number buttons and then press **OK**. The television will automatically search for that multiplex.

When the multiplex is found any channels 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

Tuning Analogue Mode

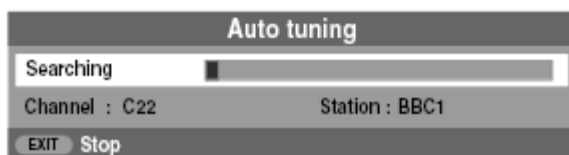
Quick Setup

The **Quick Setup** feature will tune all **analogue** channels currently available in the area. To put the television into **ATV** mode press the  button then use  or  to select **ATV**.

- 1 Select **ATV** mode. The **Quick Setup** screen will appear.



- 2 Using  or  select your **language**, then press .
- 3 Then press  or  to select your **country**.
- 4 To start **Auto tuning** press .



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

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1 and the **Manual tuning** screen will appear.

Manual tuning		
Prog.	Channel	Station
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C68	
6	 C69	
OK Select ▶ Sort MENU Back EXIT Watch TV		

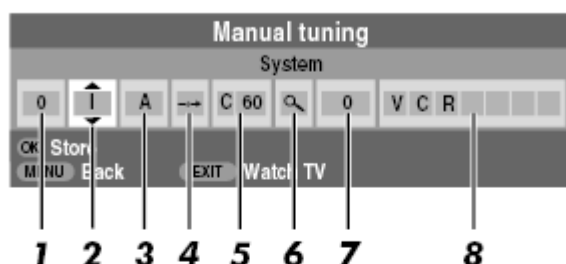
- 6** Use ∇ or $\wedge$ to move through the list to select a programme then press  to view.

The station order may be changed using the **Manual tuning** screen (see the **analogue** 'Sorting programme positions' section).

Manual Tune

The television can be tuned-in manually using **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 these Manual Tune options.



1 Programme:

The number to be pressed on the remote control.

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 Programme skip:

↺ means nothing has been stored or the facility to skip the channel is ON.

5 Channel:

The channel number on which a station is being broadcast.

6 Search:

Search up and down for a signal.

7 Manual fine tuning:

Only used if interference/weak signal is experienced.

8 Station:

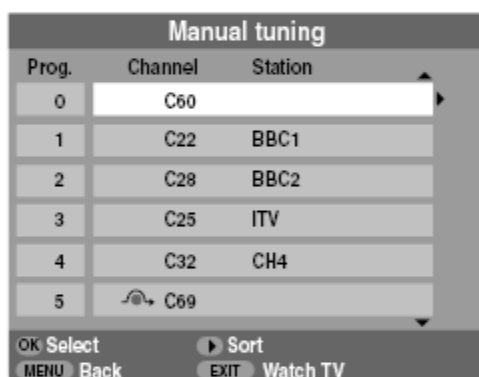
Station identification. Use the ^ or v and < or > buttons to enter up to seven characters.

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 and using < or > select the **SET UP** menu, with highlight **Manual tuning**, press to select.



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



Different **Channel** numbers may be displayed.

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



- 4 Press > to select **System** and use or to change if required.

- 5 Then press > to select **Search**.

- 6** Press $\wedge$ or $\vee$ 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 $\wedge$ or $\vee$ again to restart the search.
- 8** When your media recorder signal is found, press $\triangleright$ to move along to **Station**. With $\wedge$, $\vee$, $\triangleleft$ and $\triangleright$ put in the required characters, e.g. **VCR**.



- 9** Press $\odot$ 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.
- 12** To name external equipment, e.g. DVD on EXT2, press $\odot$ to select $\odot 2$, then select **Manual setting** from the **SET UP** menu.
- 13** Press $\triangleright$ to select **Label** then using $\wedge$, $\vee$, $\triangleleft$ and $\triangleright$ put in the required characters.



PLEASE NOTE

This television has direct channel entry if the channel numbers are known.

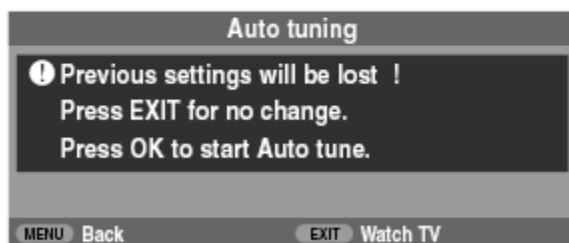
Select the **Manual tuning** screen in **Step 3**. Enter the **Programme number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press $\odot$ to store.

Using Auto Tuning

- 1 To set up the television using **Auto tuning**, press  and use < or > to select the **SET UP** menu.



- 2 Press  to highlight **Language** and < or > to select.
- 3 Using  highlight **Country**, then < or > to select. The television will now tune the stations for your country.
- 4 Press  to highlight **Auto tuning**, then press .



- 5 To start **Auto tuning** press .

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed.

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	137W	
		37	169W	
		42	217W	
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)	
		<i>(Height dimension includes foot stand)</i>		
Weight (approx.)	Model	32	14.3kg	
		37	17.5kg	
		42	22.0kg	
Headphone socket		3.5mm stereo		
Accessories		Remote control 2 batteries (AAA, IEC R03 1.5V)		