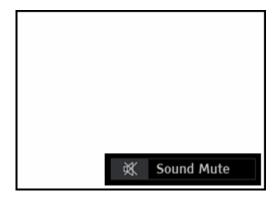
# ADJUSTMENT

### **Service Mode**

# **Entering to Service Mode**



1. Press tutton once on remote control.

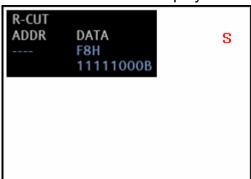
1



2. Press 🗱 button again and hold button down.

ţ

### Service Mode display

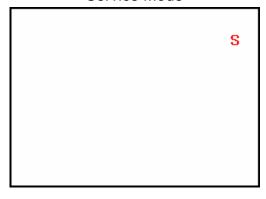


3. While holding the two button, press MENU button on TV set.

### **Displaying the Adjustment Menu**

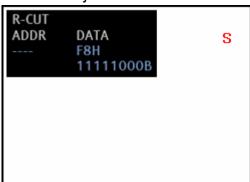
Press MENU button on TV.





Press ↑ ↓ Press

### Adjustment Mode



### **Key Function in the Service Mode**

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

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

→ button (on remote control)

Test signal selection	
Selection of the adjustment items	PROGRAMME ▲/▼ (on TV or remote control)
Change of the data value	Volume 4+/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (IC510)	"i+" + PROGRAMME ▲ button on TV
Reset the count of operating protect circuit to "00"	"i+" + PROGRAMME ▼ button on TV
Turn off TV Micro I2C bus communication	"i+" + 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 PROGRAMME \( \blacktriangle \) button in the service mode changes the adjustment items in the order of table below. (\( \blacktriangle \) 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.

Item	Name of adjustment	Address
BRTC	BRIGHTNESS CENTER	
COLC	COLOR CENTER	
UVTT	BASE BAND TINT	
CNTX	CONTRAST MAX	
OPT1	TV SET OPTION 1	00F1
OPT2	TV SET OPTION 2	00F2
OPT3	TV SET OPTION 3	00F3
OPT4	TV SET OPTION 4 (PANEL OPT DATA FOR VENDOR & INCH)	00F4
OPT5	TV SET OPTION 5	00F5
SETID	MODEL ID	00FE
VOLX	MAX VOLUME LIMITED	0108
SYSNG	Counter for Main sync disable detection at search	0032
SYSOK	Counter for Main sync enable detection at search	
SYSTM	Main sync check cycle (2ms x SY1TM)	
SY2OK	Counter for Sub sync enable detection	
SY2NG	Counter for Sub sync disable detection	
HVSEP	AV Switch Setting data 1	01B0
ASYNC	AV Switch Setting data 2	01B1
FREQ2	AV Switch Setting data 3	01B2
HCUNT	AV Switch Setting data 4	01B3
SDET1	AV Switch Setting data 5	01B4
SDET2	AV Switch Setting data 6	01B5
SY1TM	Main sync check cycle (2ms x SY1TM)	
SY10K	Counter for Main sync enable detection	01B9
SY1NG	Counter for Main sync disable detection	01BA

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

(Refer to Initialization of Memory Data of IC510 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 IC500, IC210 and IC320.

- 1) Press and hold the i+ 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 i+ 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 TV-Micro and Standby-Micro (WDT)	Disable	Enable

### **Setting Panel Option Data**

Panel option data is subject to OPT4.

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

#### Panel option data

Series Model name		Panel vendor	OPT4 value	
XV566D	EU Digital	37XV566D	LGD	0x16

### OPT4

Ex. OPT4 value 0x65 indicates that panel vendor is SAMSUNG and panel size is 32. Upper 4bit is decided as below table.

			OPT4 (Upper 4bit)						
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel	LGD	0	0	0	1				
vendor	SHP	0	0	1	0				
	СМО	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				

Lower 4bit is decided as below table.

			OPT4 (Lower 4bit)						
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel size	32					0	1	0	1
	37					0	1	1	0
	42					0	1	1	1
	46					1	0	1	0
	52					1	0	1	1

Convert	from	Bit	(Bina	ary)	to	Hex

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

			BIT (Bir	nary)	
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
	Α	1	0	1	0
	В	1	0	1	1
	С	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 IC510 and Setting Data of Signal Unit

After replacing IC510 or signal board, the following initialization is required.

CAUTION: Never attempt to initialize the data unless IC510 has been replaced.

Whenever using new signal board to the set, set 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 PROGRAMME ▲ 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 IC510 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).

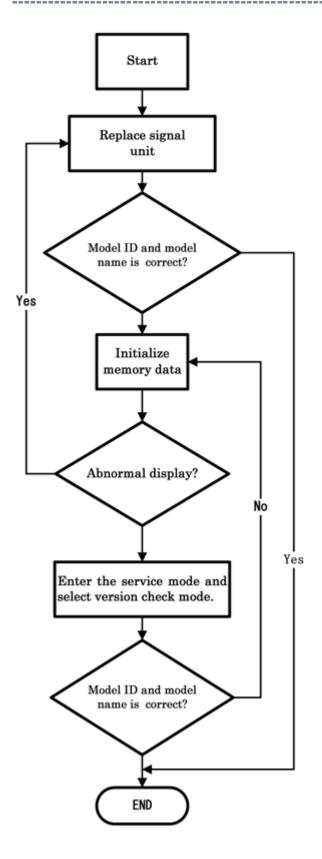
#### Note:

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.

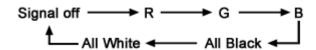
MODEL ID (HEX)	Model name	Panel vendor
0x19	37XV566D	LGD

# Initializing Data setting flowchart after replacing the Signal Unit



### **Test Signal Selection**

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

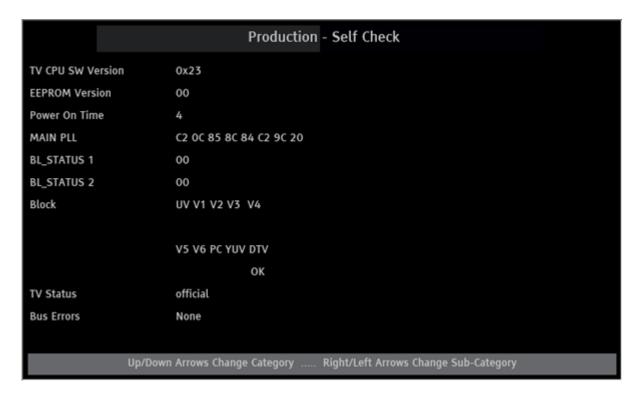


Picture	Signal
	Red raster
	Green raster
	Blue raster
	All Black
	All White

### **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.



#### TV CPU SW Version:

Version information of TV Micro SW: Display 1 byte data. (Hex)

#### **EEPROM Version:**

Version information of TV Micro EEPROM: Display 1 byte data. (Hex)

Power On Time: Total hour of turn the TV on. (Unit: H) (Decimal)

Main PLL: Displays Data 11 - Data 18 (8 bytes) of tuner control data. (Hex)

#### BL STATUS:

BL\_STATUS 1: The total number of times that the panel did not light. (backlight double-

light also failed) (Decimal)

BL\_STATUS 2: The number of times that the backlight failed to light. (Decimal)

#### Block:

UV : ATV reception mode

V1 - V6 : VIDEO 1-6 input mode (see SELF DIAGNOSTIC BLOCK TABLE)

PC : PC mode DTV : DTV mode

For current input: OK: Signal Sync Detected

NG: No Sync Detected

TV Status: "official" is normal. Bus Errors: "none" is normal.

#### Block:

UV	ATV
V1	-⊕ 1 (SCART (FULL))
V2	→ 2 (SCART (S+AV))
V3	→ 3 (Component/Composite)
V4	HDMI1
V5	HDMI2
V6	HDMI3
V7	-
V8	
V9	
РС	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.

	Versions - Main
TV Model	XV565D
TV Model ID	0x1C
Seine Product Code	415
Seine Chip Revision	1.0.0.0
Overall SW Version	1.3.61.0
Boot Code Version	1.1.0.8 - 2008.01.24
Core SW Version	1.5.69.0
Seine SW Version	1.3.61.0
Seine SW Build Time	Jul 10 2008 - 13:05:26
Seine EEPROM Version	9
TV Micro SW Version	23
TV Micro EEPROM Version	01
Global Data Version	XV565D_v00
Up/Dow	n Arrows Change Category Right/Left Arrows Change Sub-Category

TV Model

**Boot Code Version** 

Core SW Version

Seine SW Version

TV Micro SW Version:

Version information of TV Micro SW: Display 1 byte data.

### TV Micro EEPROM Version:

Version information of EEPROM: Display 1 byte data.

#### EDID Checksum:

EDID data check item. Display channel numbers depend on HDMI input numbers.

Pass: EDID data is good.

Fail: EDID data is no good.

#### Global Data Version

LCD Panel Opt:

Panel Option (OPT4) Data: Display 1 byte data.

Factory Test Status: Optional Data Bits that can be used by factory.

### A/D Adjust:

A/D adjustment item.

-- COMP: Component input

--PC : PC input

--OK : A/D adjustment set correctly.--NG : A/D adjustment set incorrect.

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

### **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.
- Green ON (solid) and Red ON = The On timer is operating.

	LED Indication	Condition	Solution
1	Green is OFF; Red blinks continuously at 0.5- second intervals.	Abnormal operation	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
2	Green is OFF; Red blinks continuously at 1- second intervals.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

### **DTV Software Upgrade - While Watching TV**

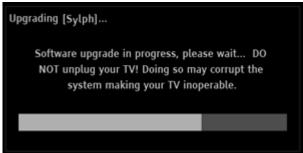
- 1. Extract upgrade files onto an SD card.
- 2. Connect service jig, FWA1209, to P404A.



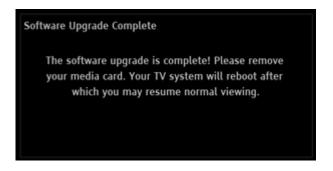
- 3. Power TV on.
- 4. Insert SD card into the slot on FWA1209. The following OSD will be displayed:



- 5. Highlight OK and press the OK key on the remote.
- 6. Upgrading progress for OSD is displayed on TV as bellow. Please never power off while updating.



7. After upgrading the software completely, following OSD is displayed on TV.



- 8. Remove the SD card.
- 9. Upon completion the power will off/on automatically.

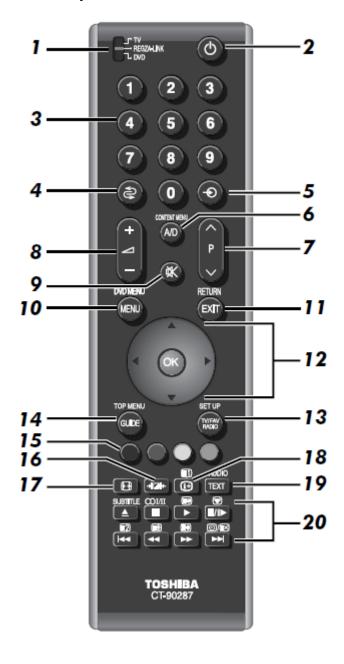
### **DTV Software Upgrade - from Boot Up**

- 1. Extract upgrade files to an SD card.
- 2. Unplug TV.
- 3. Insert the SD card into service jig, FWA1209, and connect it to P404A.
- 4. Plug in TV and confirm LED indication on the front of the set.
  - a. The green LED will blink in groups of three several times.
  - b. The red and green LEDs light up, indicating that the set is updating.
- 5. When only the Red LED is lit, upgrading is successful.
- 6. Unplug the set and remove the SD card.

# **FUNCTION AND OPERATION**

### **The Remote Control**

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



- 1 To select device mode (T/R/D)\*
- 2 For On/Standby mode (T/R/D)
- 3 Number buttons (T/R/D)
- 4 To return to the previous programme (T)
- 5 To select external input sources (T/R/D)
- 6 To switch between ATV (analogue television) and DTV (digital television) (T)
  To display Content menu (R)
- 7 To change programme positions (T/R) To change text pages (T)
- 8 To alter the TV volume (T/R/D)
- 9 To mute the TV sound (T/R/D)
- 10 On-screen menus (T) DVD menus (R/D)
- 11 To exit menus (T)
  To return to previous menu (R/D)
- 12 When using menus the arrows move the cursor on the screen up, down, left or right. OK to confirm your selection (T/R/D)
- 13 To display TV, Radio and Favourite channel list when in digital mode (T)
  To access Setup menu (R/D)
- 14 To display the digital on-screen Programme Guide (T) To access Top Menu (R/D)
- 15 Text control buttons (T) Application control on device (R)
- 16 TV selectable picture preferences (T/R/D)
- 17 TV widescreen viewing (T/R/D)
- 18 To display on-screen information (T/R/D) To access index page in Text mode (T)
- 19 To call up text services (T)

#### 20 When in TV mode:

②/≡× Analogue time display

lacksquarePicture still

Stereo/bilingual transmissions OI/I

SUBTITLE Digital subtitles or TEXT subtitle pages if

available

#### When in Text mode:

To access sub pages To reveal concealed text To hold a wanted page To enlarge text display size

To select a page whilst viewing a normal

#### When using the Programme Guide:

- 24 hours

+ 24 hours− 1 page

→ + 1 page

#### REGZA-LINK or DVD mode:

press II/II▶ to PAUSE/STEP

press ▶ to PLAY

press ◀◀ to REWIND

press ▶▶ to FAST FORWARD

press to EJECT

press 
to STOP

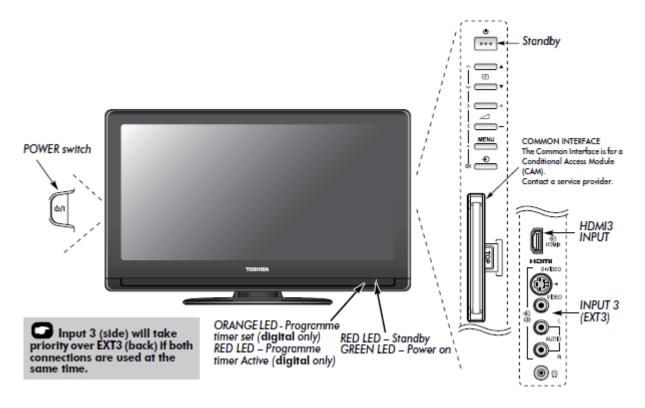
press **▶** to SKIP-FORWARD

<sup>\*</sup> T=TV mode, R=REGZA-LINK mode, D=DVD mode

### FUNCTION AND OPERATION

### **Controls and Input Connections**

A wide variety of external equipment can be connected to the input sockets on the side of the television. 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 and press the  $\bigcirc/\bigcirc$  (POWER) button on the left side of the television to switch the television on. If the picture does not appear press  $\bigcirc$  on the remote control, it may take a few moments. The GREEN LED will be lit.

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

### **Using the Remote Control**

Press on the remote control to see the menus.

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

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

To use the options, press  $\triangle$  and  $\nabla$  on the remote control to move up and down through them and  $\bigcirc K$ ,  $\blacktriangleleft$  or  $\triangleright$  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 and Connections**

To alter the volume press –  $\angle$  +.

To alter the programme position press ▼ 🕑 🛦.

Press **MENU** and  $\langle , \rangle$ ,  $\wedge$  or  $\vee$  to control the sound and picture options.

Press MENU twice to finish.

An S-video cable provides better picture performance than a composite video cable. If you connect an S-video cable to **EXT3**, be sure to disconnect the standard (composite) video cable or the picture performance will be unacceptable.

To select an external input, press 🕤 until the appropriate input source is selected.

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

# FUNCTION AND OPERATION

# **Startup Application**

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

**Quick Setup** 

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



Press ◀ or ▶ to select the menu language Français or English.

Country is fixed to France in this model.

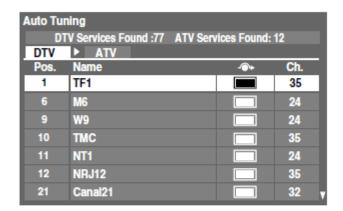
- Press ▼ to highlight Primary Subtitle Language,
  Secondary Subtitle Language, Primary Audio
  Language or Secondary Audio Language and use
  ◀ or ▶ to select your preferred language.
- Press OK to display the Auto Tuning startup screen.
  To execute Auto Tuning highlight Start Scan and press OK again.

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

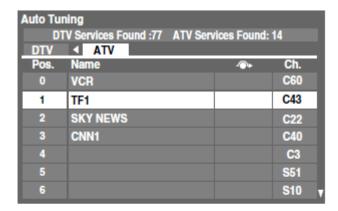
You must allow the television to complete the search.



When the search is complete the television will automatically select position one. The **Auto Tuning** results screen will display the services that are found.



Press ◀ or ▶ to view the DTV (digital channel) or ATV (analogue channel) lists.



Use ▼ or ▲ to move through the list to select a channel then press OK to view.

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

#### **PLEASE NOTE**

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

### **Auto Tuning**

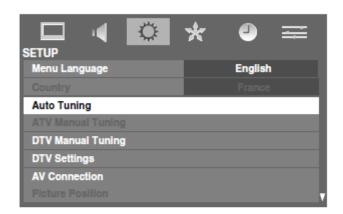
NOTE: As new services are broadcast it will be necessary to retune the television in order to view them.

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 channels and settings, i.e. favourites and locked channels, will be lost.

Press (and use ◀ or ▶ to select SETUP menu.

Use ▼ to highlight Auto Tuning. Press (OK).



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



Use ◀ or ▶ to select DTV and ATV, DTV or ATV, then highlight Start Scan and press OK to continue with the Auto Tuning.

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

You must allow the television to complete the search.

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

Use ▼ or ▲ to move through the list to select a channel then press OK) to view.

### **Auto Channel Update**

If the Auto Channel Update is set to On, when the TV is in standby mode, Digital Tuning is automatically executed and any new channels are stored.

- Press (ew), and select SETUP menu.
- Use ▼ to highlight DTV Settings and press (0K).
- Press ▼ to select Auto Channel Update and use ◀ or ▶ to select On.

### **Analogue Switch-off**

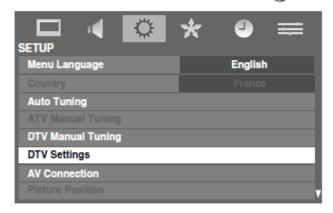
This is a **digital** television which is integrated to allow the use of both **digital** and **analogue** services. However, during the lifetime of this set it is very likely that **analogue** services will be switched off to allow for more new **digital** services.

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

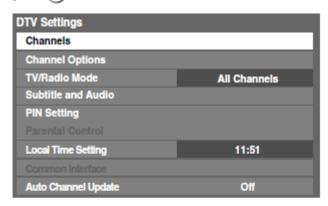
FUNCTION AND OPERATION	
TV Settings	
nannels	

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

- Press (IN), and select SETUP menu.
- 2 Use ▼ to highlight DTV Settings and press (OK).



3 Select Channels from the DTV Settings menu and press OK).

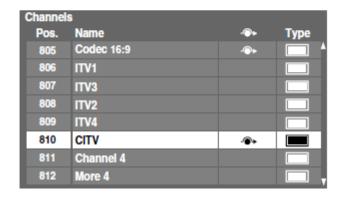


With the list of channels showing use ▼ or ▲ to highlight the channel you want to move and press OK).

1	Channels					
ı	Pos.	Name	-€+	Туре		
E	6	M6		^		
ı	9	W9				
ı	11	NT1				
ı	31	PARIS PREMIERE				
ı	34	AB1				
ı	36	TF6				
ı	800	FlowerGd 6Mbs				
	801	FlowerGd 4Mbs				

- Use ▼ or ▲ to move through the list to your preferred position. As you do so the other channels will move to make room.
- Press OK to store your move. Repeat as necessary, then press (EXIT).

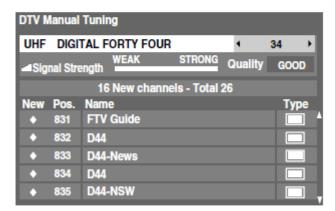
The Skip setting for the highlighted channel can be switched between "Set/Not Set" by pressing the **RED** button on the remote control. This feature allows you to set channels that will be skipped when **P**~ or **P**^ are used to tune. However, these channels will still be available by direct number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



### **Manual Tuning**

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

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



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

Repeat as necessary. Press (XII) to finish.

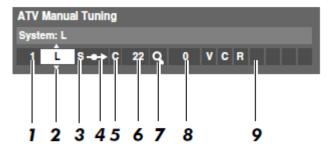
### **FUNCTION AND OPERATION**

### **ATV Manual Tuning**

### **Tuning**

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

Use ◀ and ▶ to move across the screen and select any of the ATV Manual Tuning options. Then use ▲ or ▼ to adjust the settings.



The number to be pressed on the remote control to tune the channel.

#### 2 System:

Specific to certain areas.

#### 3 Colour System:

Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.

#### 4 Skip:

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

#### 5 Channel:

The channel classification and the channel number on which a station is being broadcast.

#### 6 Search:

Search up and down for a signal.

#### 7 Fine Tuning:

Only used if interference/weak signal is experienced.

#### 8 Station:

Station identification. Use the ▲ or ▼ and ◀ or ▶ buttons to enter up to seven characters.

To allocate a 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.

Press (and using ◀ or ▶ select the SETUP menu.
With ▼ highlight ATV Manual Tuning and press (OK)
to select.



Use ▲ or ▼ to highlight the position required e.g. we suggest **Pos.** 0 for a media recorder.

ATV Manual Tuning					
Pos.	Channel	Station			
1	C2	<b>&gt;</b>			
2	S10				
3	C7				
4	S40				
5	C22				
6	C25				
7	C28				
8	C30	Ι,			

Different Channel numbers may be displayed.

Press OK to select. If the channel is set to skip, **Skip** must be removed before storing.



- Press ➤ to select System and use ▲ or ▼ to change if required.
- Then press ► to select Search.
- Press ▲ or ▼ to begin the search. The search symbol will flash.



- Each signal will show on the television, if it is not your media recorder, press ▲ or ▼ again to restart the search.
- When your media recorder signal is found, press ► to move along to Station. With △, ▼, ◄ and ► put in the required characters, e.g. VCR.



- 9 Press OK) to store.
- Repeat for each **position** you want to tune or, press to return to the list of channels and select the next number to tune.
- Press (EXIT) when you have finished.
- To name external equipment, e.g. DVD on EXT2, press
  to select \$2, then select Manual Settings from
  the SETUP menu.
- Press ▶ to select Label then using ▲, ▼, ◀ and ▶ put in the required characters.



#### **PLEASE NOTE**

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

Select the ATV Manual Tuning screen in Step 3. Enter the Position number, the System, then C for standard (terrestrial) channels or S for cable channels and the Channel number. Press (K) to store.

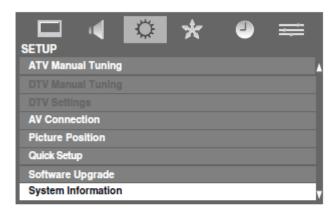
# FUNCTION AND OPERATION

# **Software Upgrade**

#### **Version**

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

From the SETUP menu press ▲ or ▼ to select System Information.



Press (OK) to display the Software Version.



### **Auto Upgrade**

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

- From the SETUP menu press ▲ or ▼ to select Software Upgrade and press OK).
- Press ▼ to select Auto Upgrade.
- 3 Use ◀ or ▶ to select On or Off.

### **Searching for New Software**

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

- In the Software Upgrade menu press ▲ or ▼ to select Search for New Software.
- Press OK). The television will automatically start searching for a software upgrade, the progress bar will move along the line.

SEARCHING FOR NEW SOFTWARE

Searching for a new software upgrade for this TV.

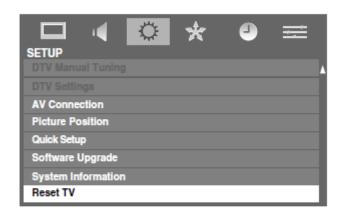
Searching

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

#### **Reset TV**

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

In the SETUP menu press ▼ until Reset TV is highlighted.



Press  $\widehat{\text{OK}}$  to select. A screen will appear warning that all settings will be lost. Press (OK) to continue.

> When the set powers back on, the Quick Setup screen will appear. Press (OK) to continue, the television will then auto tune.

# **SAFETY INSTRUCTION**

### **Handling the LCD Module**

### **Safety Precaution**

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

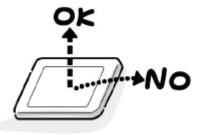
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the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

### **Precautions for Handling the LCD Module**

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

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

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



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



3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.

If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



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



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



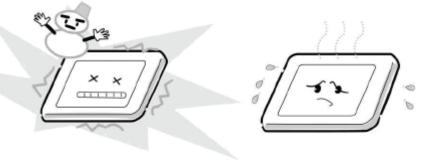
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



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



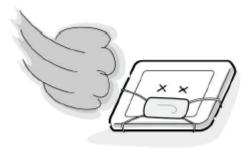
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.



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



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



# 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
Α	AUO	J		s	SHARP
В		K	SAMSUNG	Т	
С	СМО	L	LGD	U	
D		М		V	
E		N		w	
F		Р		Х	
G		Q		Y	
Н	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" LGD
B001B	75007870	LCD Panel, 32" AUO
MZ01A	75006036	LDVS Cable
MZ01B	75007893	LDVS Cable

U06A KEY U05A **POWER** MAIN U03A AC-SW U04B RMT U04A LED

### SAFETY INSTRUCTION

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

## **Safety Precaution**

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

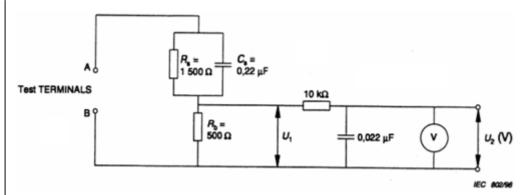
- 1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
- 2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.
- 3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.
- 4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.
- 5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
- 6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as

inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the 
mark is indicated in the circuit diagram or parts list.

- 7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.
- 8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
- 9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.
- 10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)
  - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.
  - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.

Annex D (normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms ( $\Omega$ ).

V: Voltmeter or oscilloscope

(r.m.s. or peak reading)

Input resistance :  $\ge$  1 M $\Omega$  Input capacitance :  $\le$  200 pF

Frequency range: 15 Hz to 1 MHz and d.c. respectively

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

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

TOUCH CURRENT = U<sub>2</sub>/500 (peak value).

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

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

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

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

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

**Note:** The limit values of  $U_2 = 0.35 \text{ V}$  (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.

### **SPECIFICATION**

DVB-T Broadcast systems/channels

VHF 05-10 (VHF 01-05) UHF 21-69 Broadcast systems/channels

PAL-I UHF UK21-UK69

PAL-B/G UHF E21-E69

VHF E2-E12, S1-S41

SECAM-L UHF F21-F69

VHF F1-F10, B-Q

SECAM-D/K UHF R21-R69

VHF R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

#### **External connections**

EXT1 Input/Output 21-pin SCART RGB, A/V

(AV out: TV out)

EXT2 Input/Output 21-pin SCART A/V, S-video

(AV out: TV out)

EXT3 Input Phono jacks Y,  $P_B/C_B$ ,  $P_R/C_R$ 

Phono jacks Audio L + R

EXT3 Input (Side) Phono jack Video, S-video

Phono jacks Audio L + R

HDMI 1/2 Input HDMI™ (Audio LIP SYNC supported)

HDMI3 Input (Side) HDMI™ (Audio LIP SYNC supported)

PC Input Mini D-sub 15-pin Analogue RGB signal

PC/HDMI1 Audio 3.5mm mini jack Audio

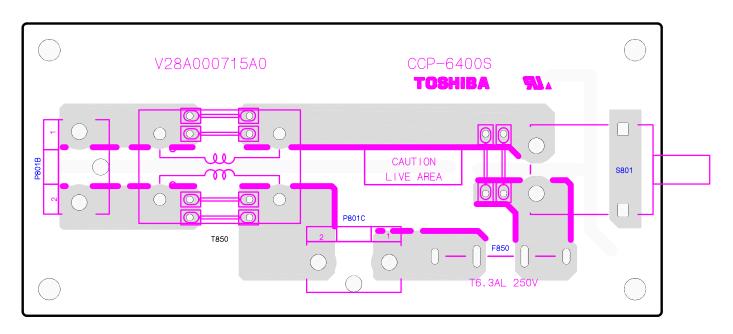
Digital Audio Output (S/PDIF) Optical

Output to Active Super Woofer Phono jack

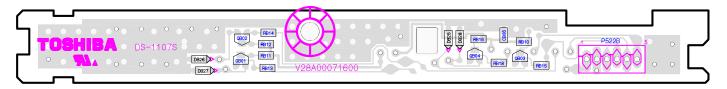
Fixed Audio Output Phono jacks Audio L + R

Stereo		Nicam 2 carrier system			
Visible Screen Size (approx.)	Model	32 37 42 46 52	80cm 94cm 107cm 117cm 132cm		
Display		16:9			
Sound output (at 10% distortion)		Main	10W + 10W		
Power consumption as specified in EN60107-1: 1997	Model	32 37 42 46 52	168W 172W 203W 269W 315W		
Standby (approx.)	Model	32 37 42 46 52	0.8W 0.8W 0.8W 0.8W		
Dimensions (approx.)	Model	37 6 42 6 46 7 52 8	7cm (H) 79cm (W) 25cm (D) 3cm (H) 90cm (W) 25cm (D) 9cm (H) 101cm (W) 26cm (D) 5cm (H) 111cm (W) 31cm (D) 4cm (H) 125cm (W) 33cm (D) ht dimension includes foot stand)		
Weight (approx.)	Model	32 37 42 46 52	14.0kg 17.5kg 23.0kg 27.5kg 37.0kg		
Headphone socket		3.5mm stereo			
Operating condition		Temperature 5°C - 35°C (41°F - 94°F) Humidity 20% - 80% (non-condensing)			
Accessories		2 batt (AAA, Clip Clean	te control teries IEC R03 1.5V) ing cloth (to clean the cabinet and ol panel)		

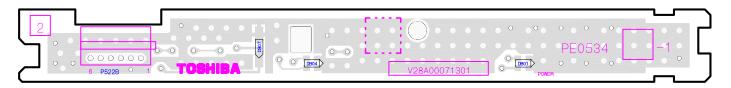
# U03A AC-SW [Bottom] (PE0533)



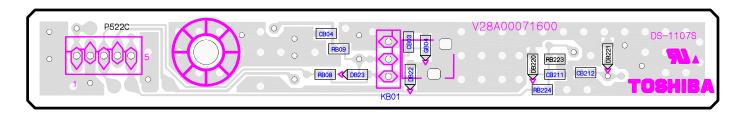
# UO4A LED [Bottom] (PE0534)



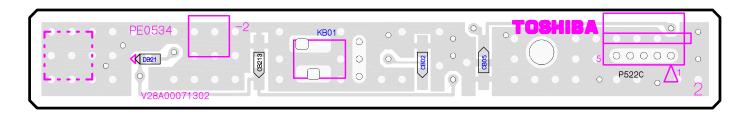
# U04A LED [Top] (PE0534)

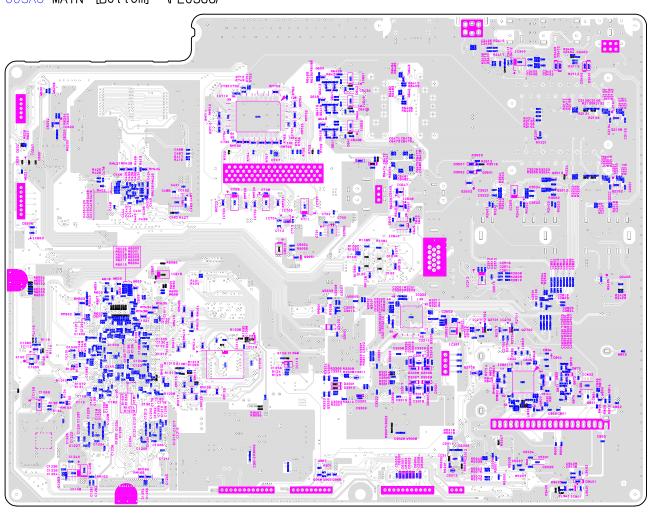


# U04B RMT [Bottom] (PE0534)

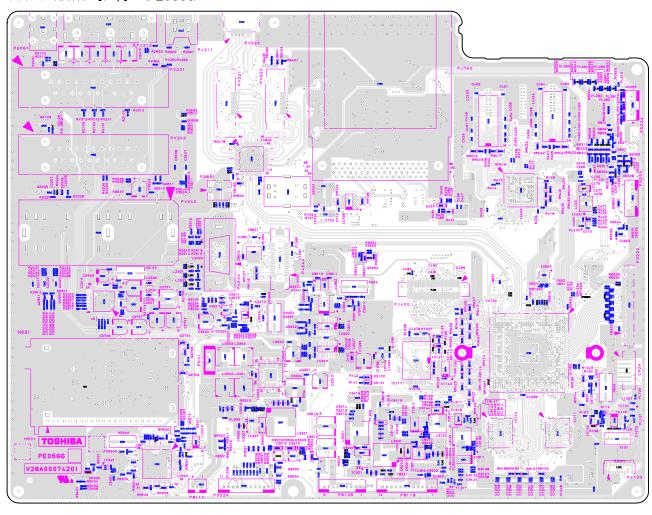


# U04B RMT [Top] (PE0534)

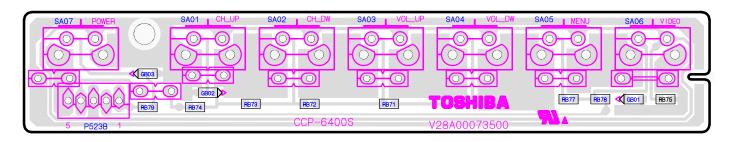


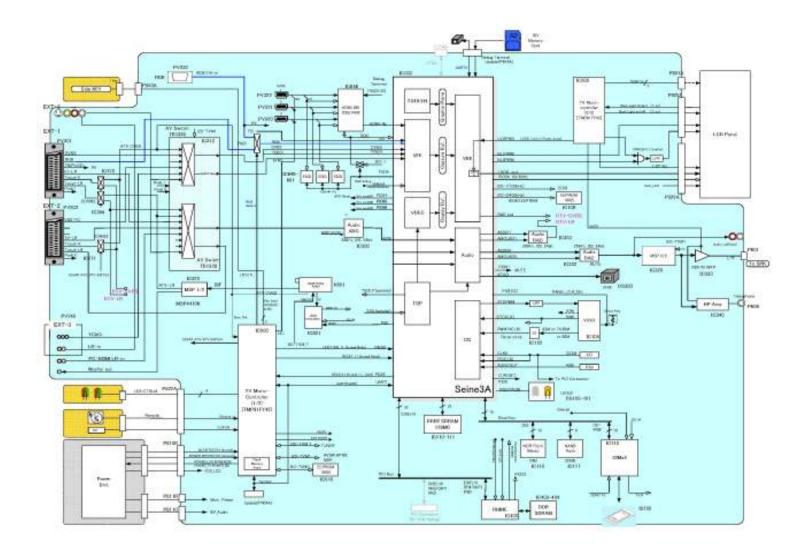


### U05AS MAIN [Top] (PE0566)



# U06A KEY [Bottom] (PE0560)





### **SCHEMATIC DIAGRAM**

### **Precaution**

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

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

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

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

#### Note:

#### 1. RESISTOR

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

1/2R : Metal or Metal oxide of 1/2 watt1/2S : Carbon composition of 1/2 watt

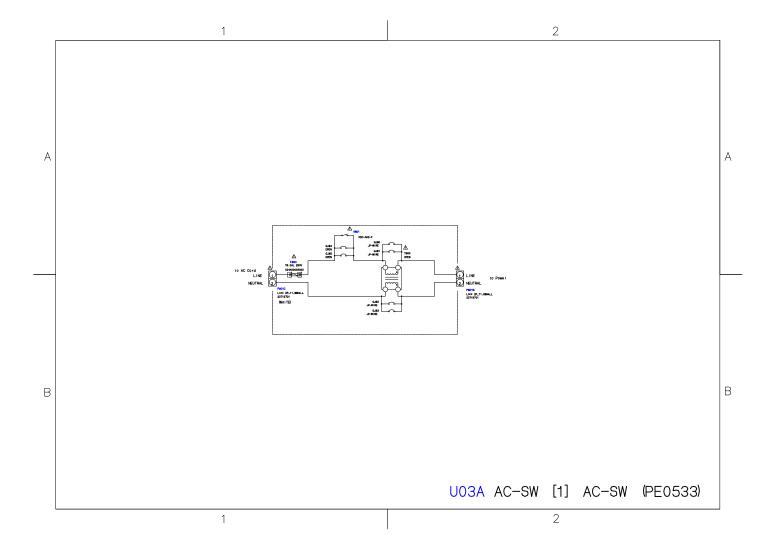
1RF : Fuse resistor of 1 watt 10 W : Cement of 10 watt

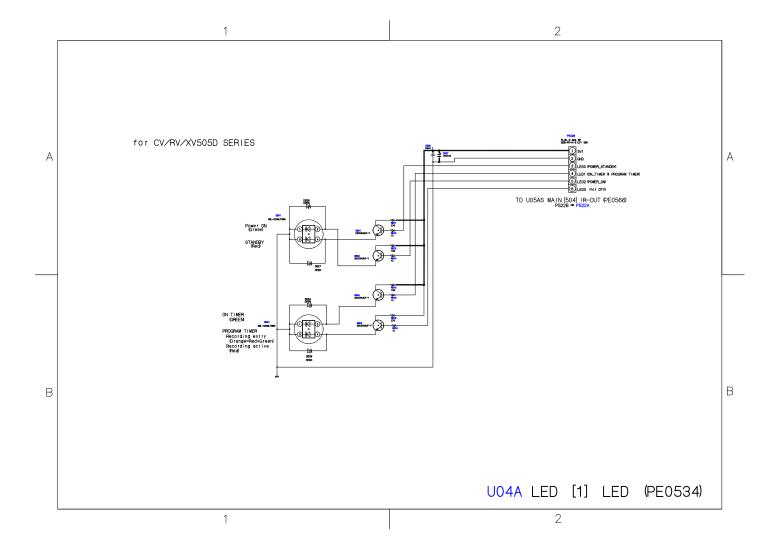
#### 2. CAPACITOR

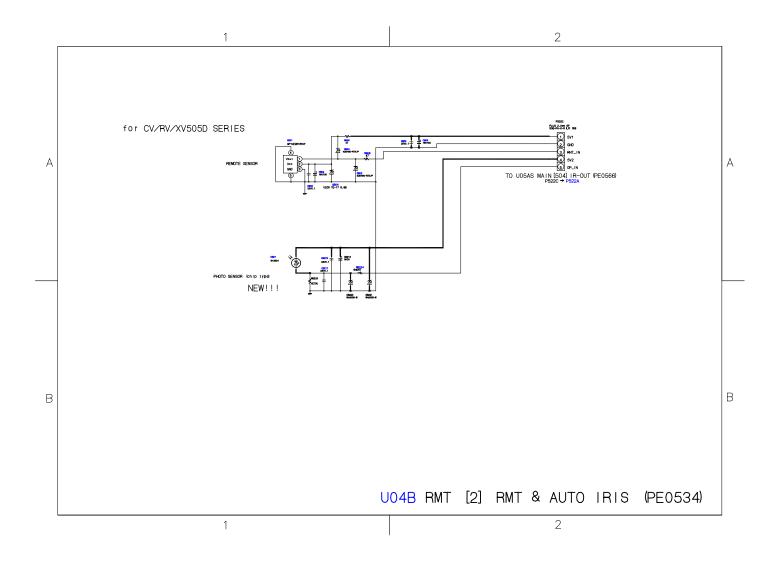
Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in  $\mu F$ , and the values more than 1 in pF.

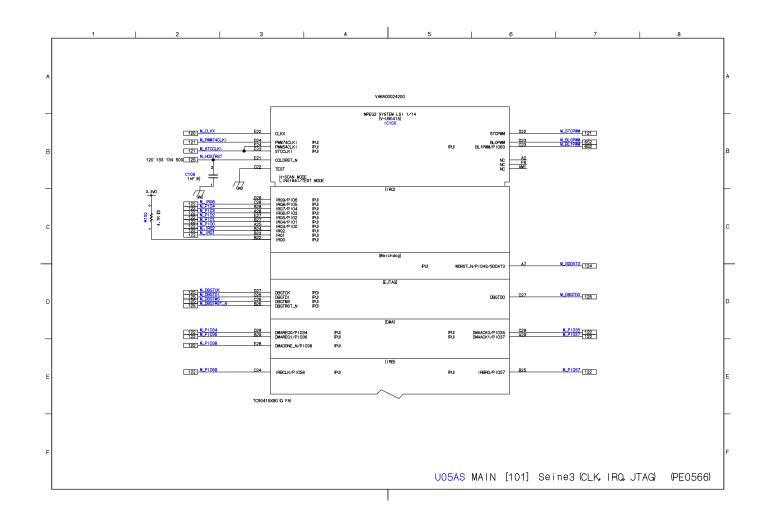
All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

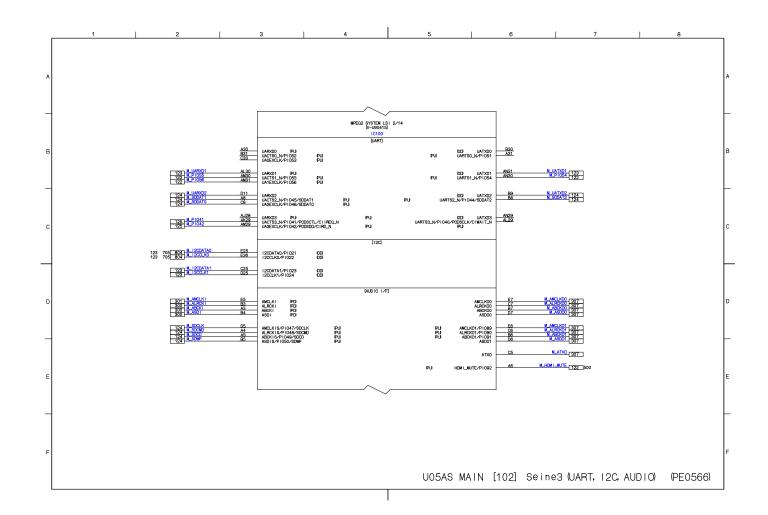
- 3. The parts indicated with "\textsum" have special characteristics, and should be replaced with identical parts only.
- 4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.
- 5. Waveforms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

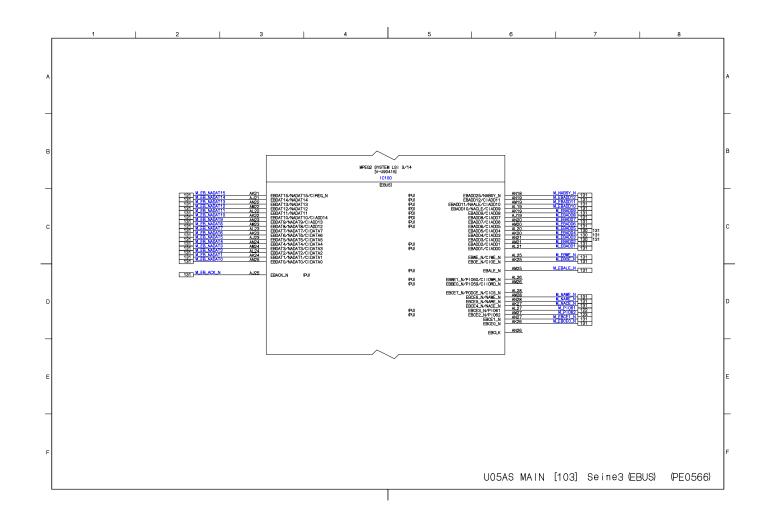


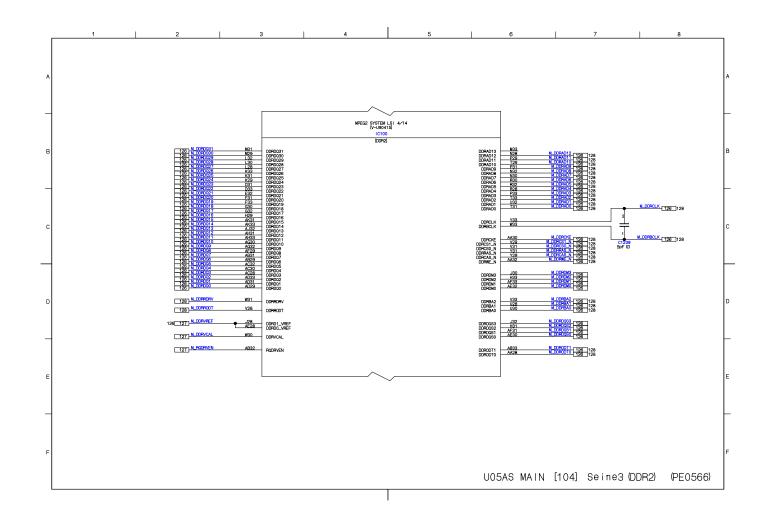


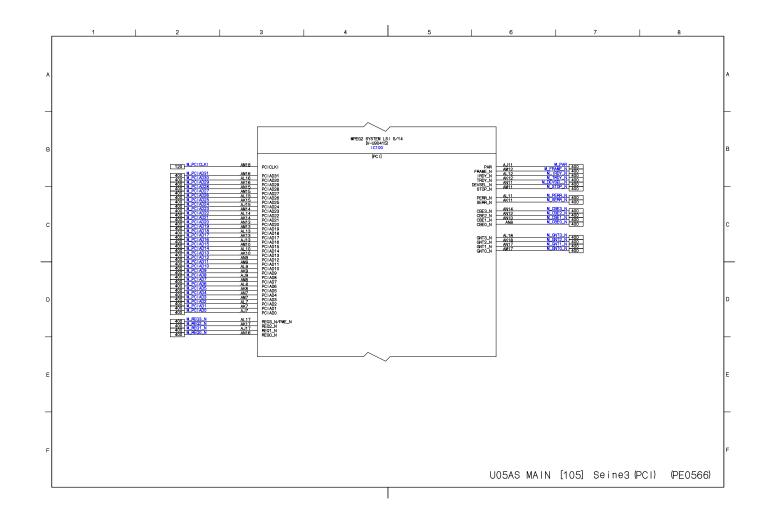


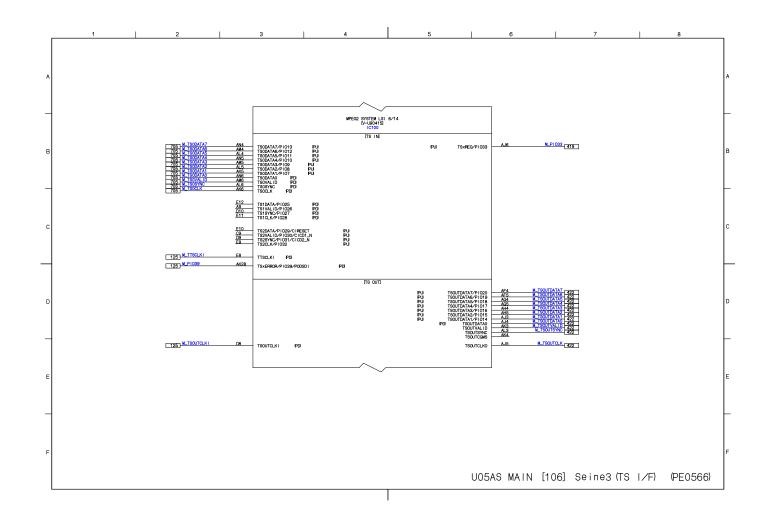


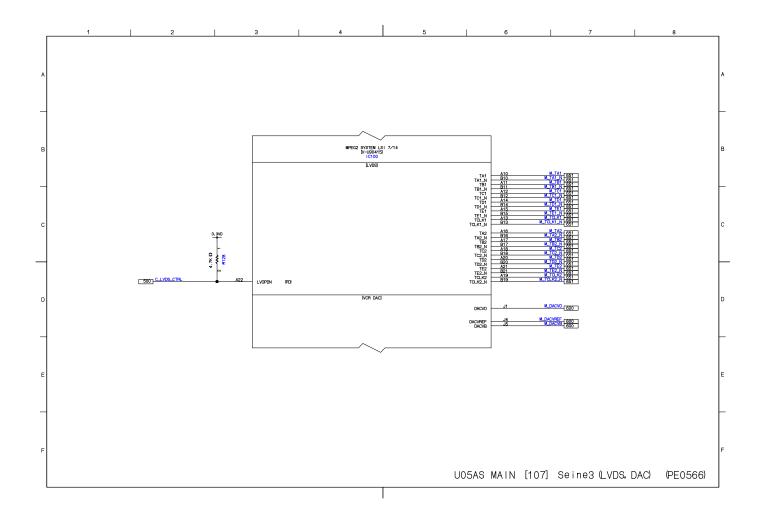


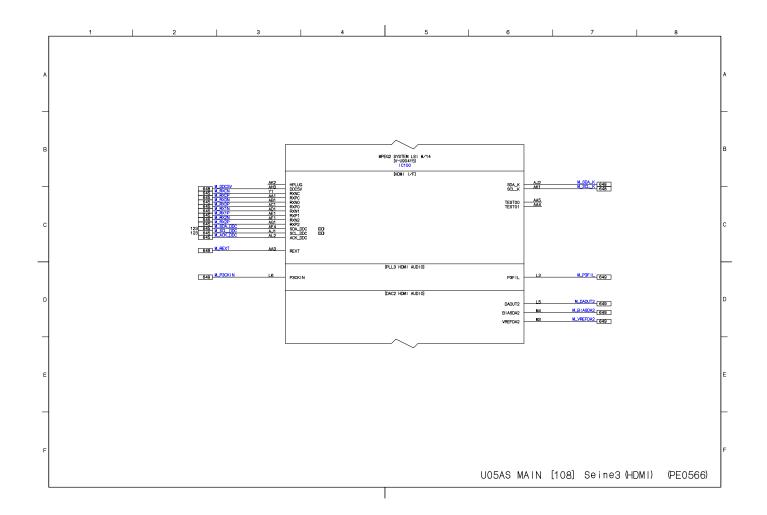


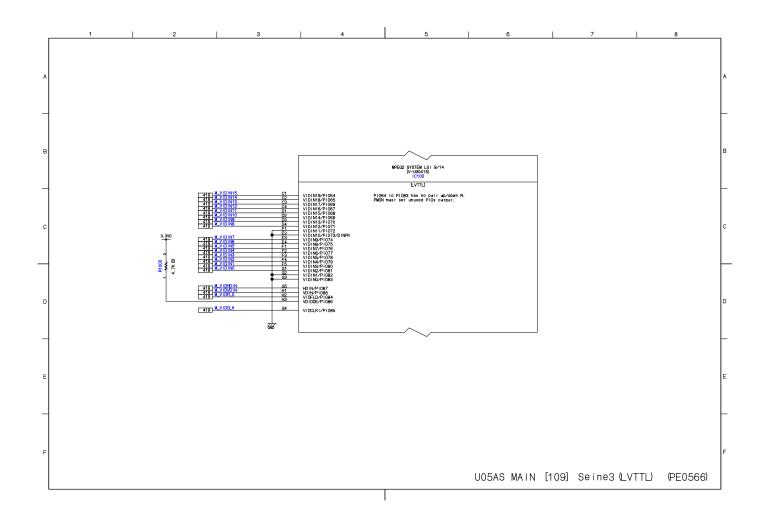


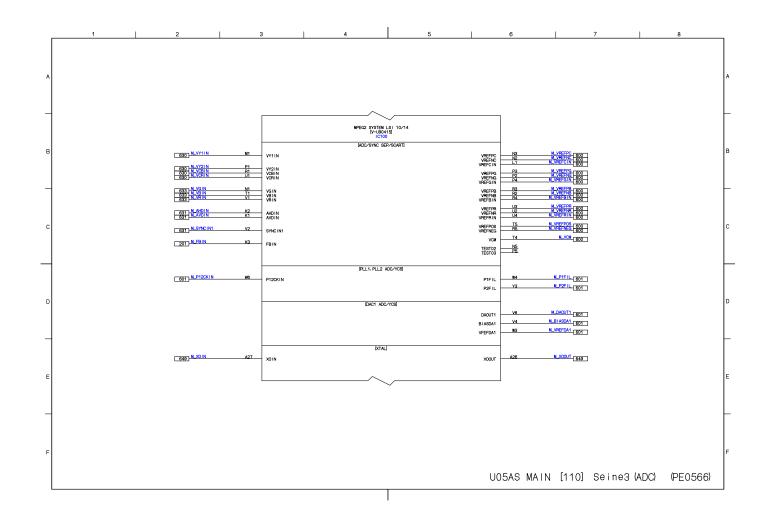


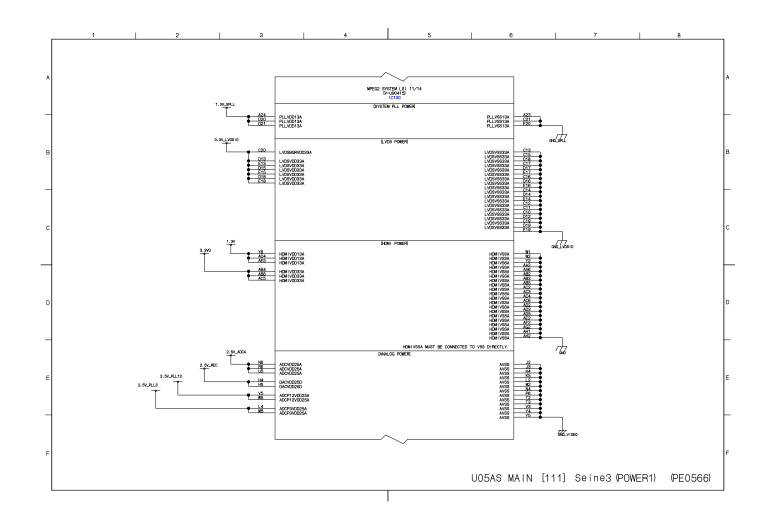


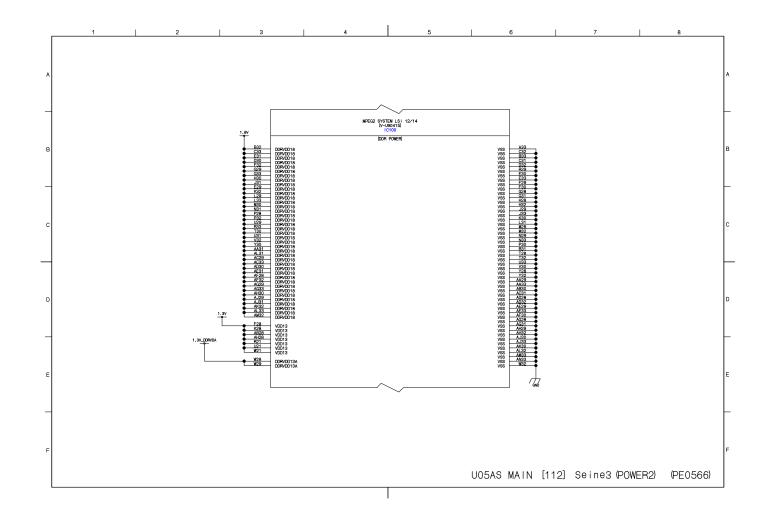


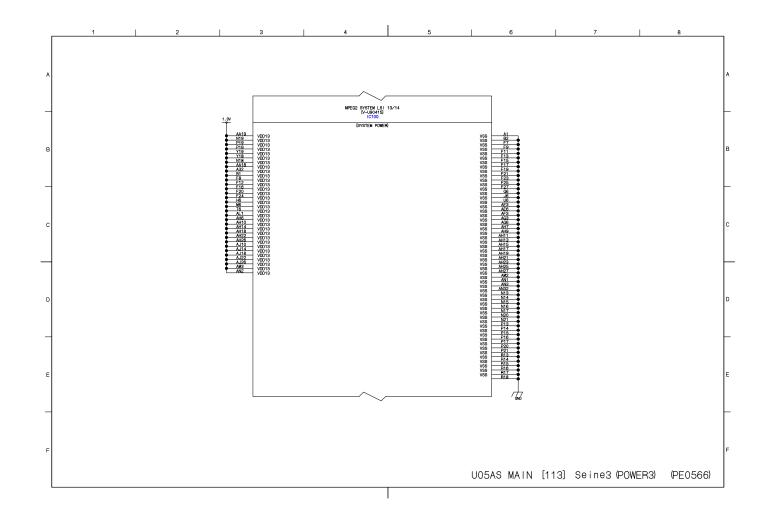


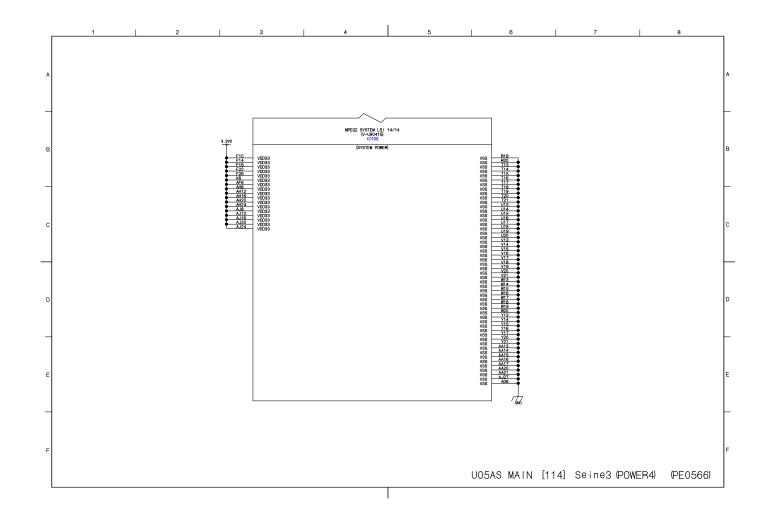


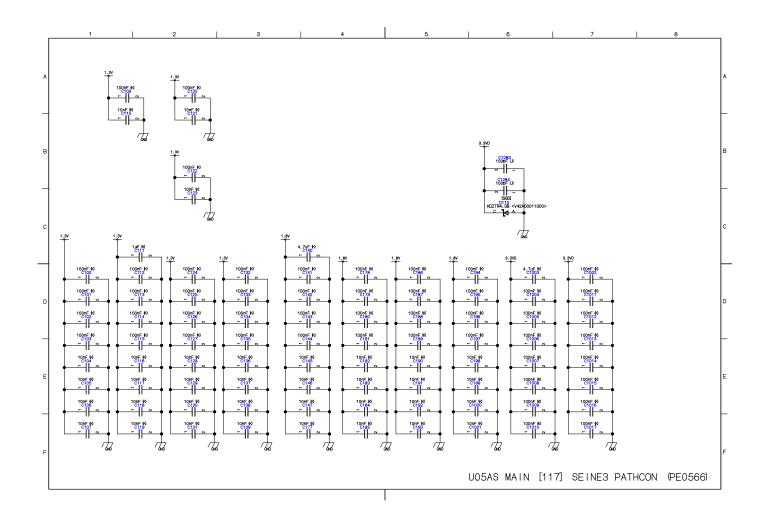


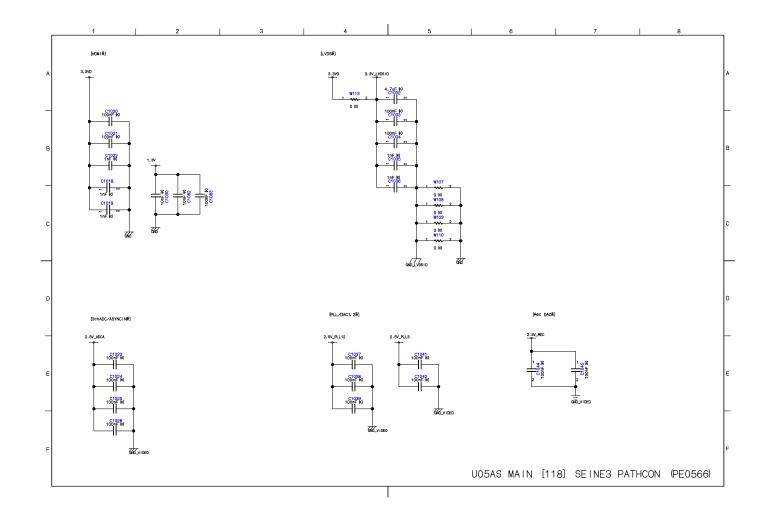


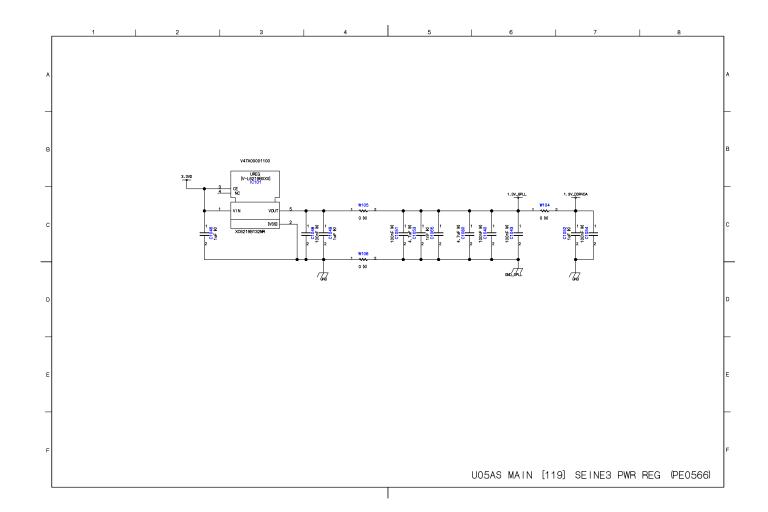


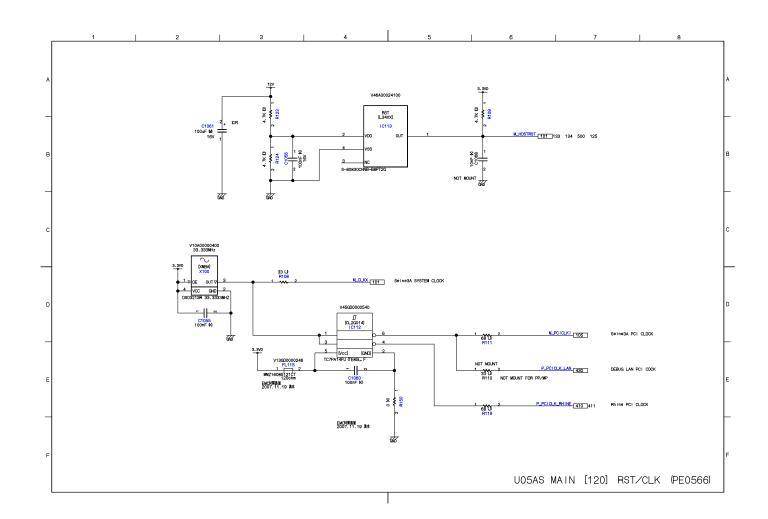


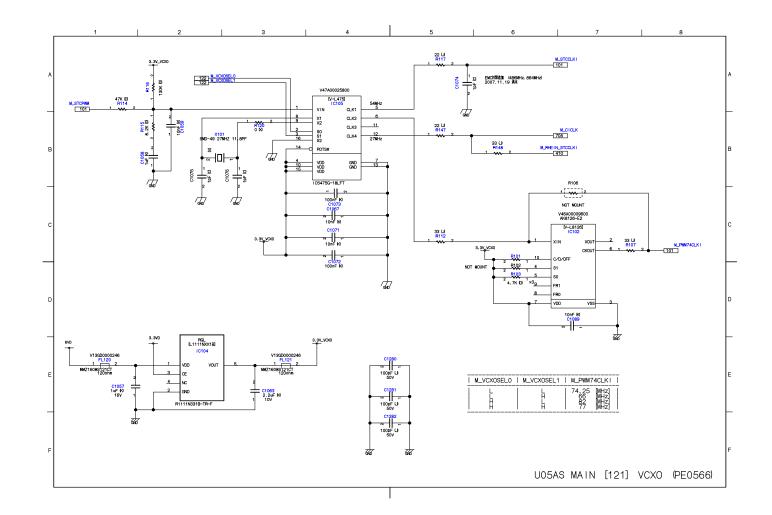


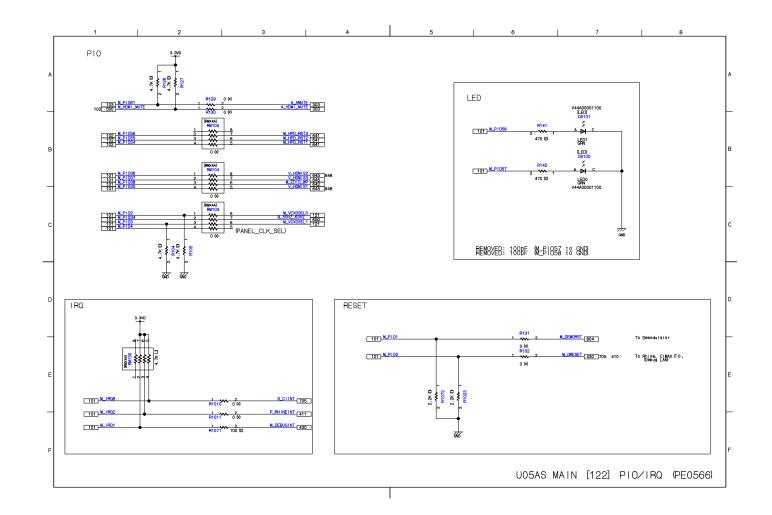


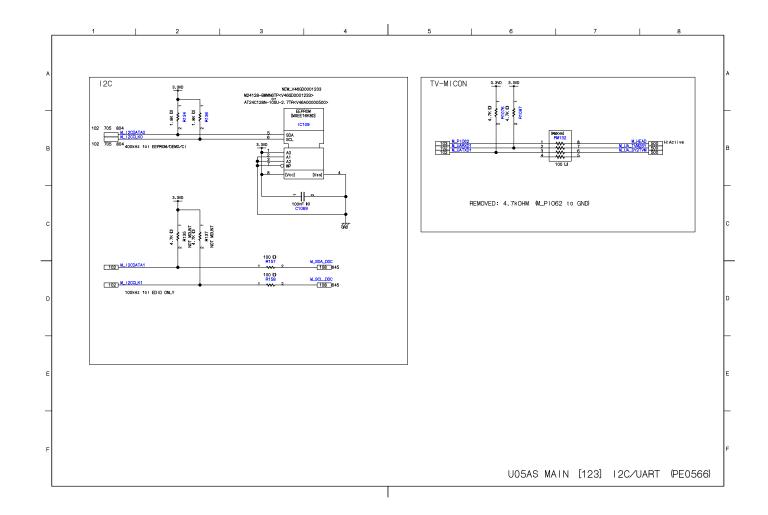


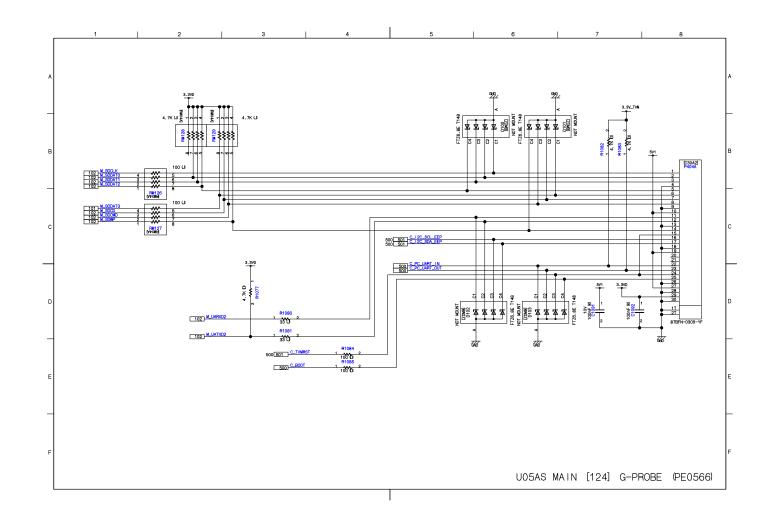


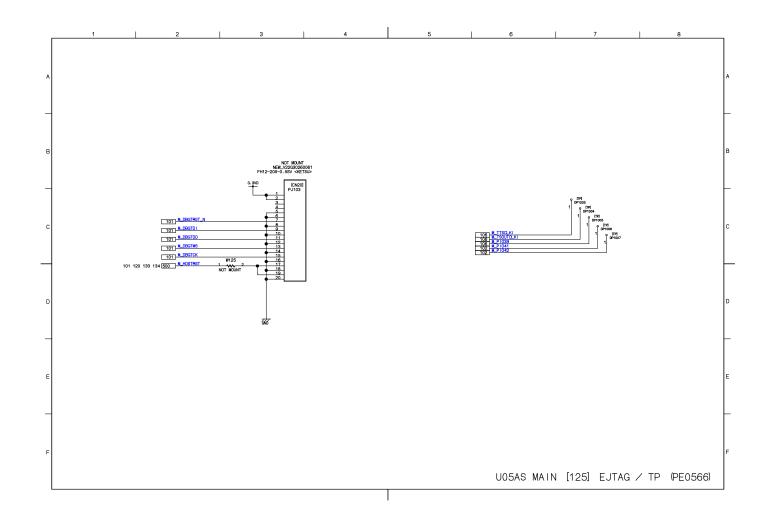


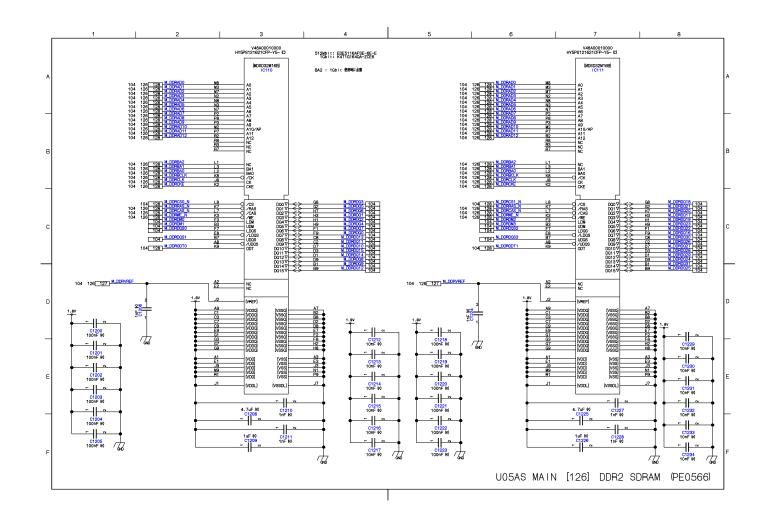


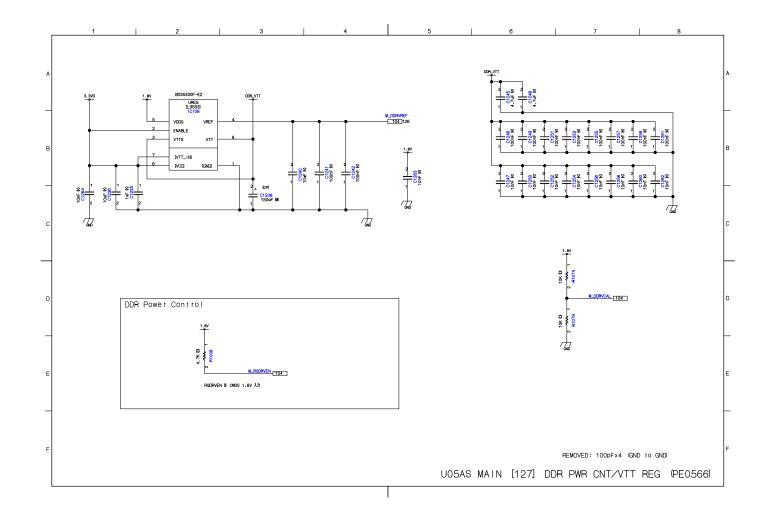


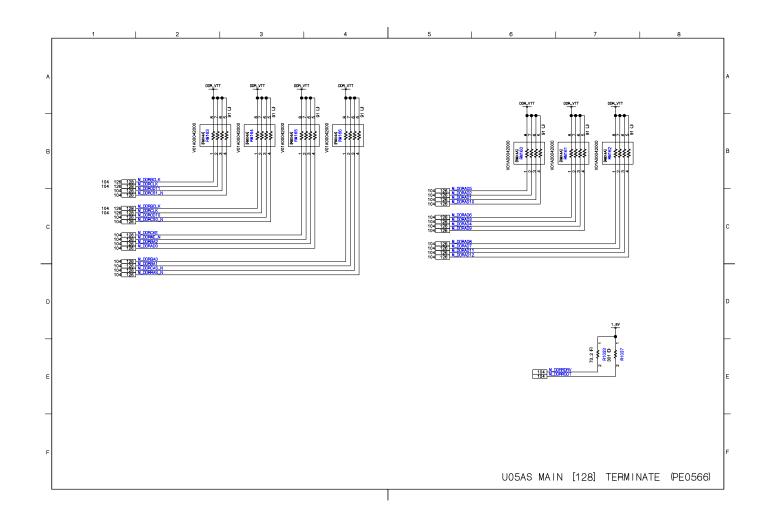


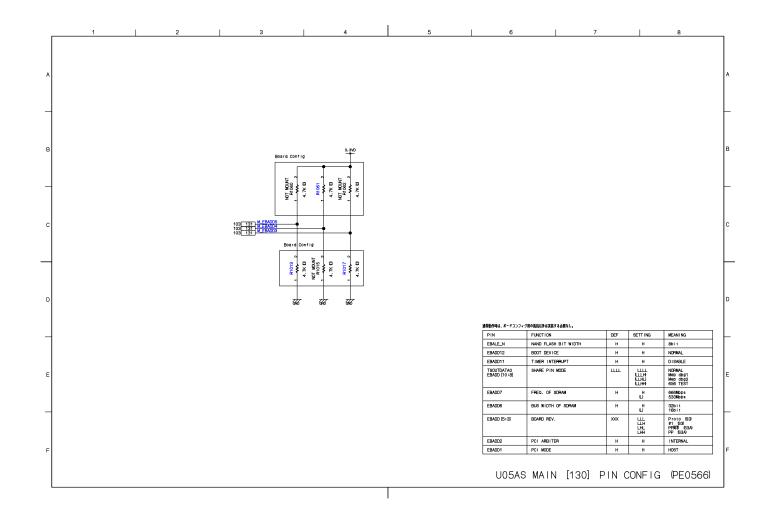


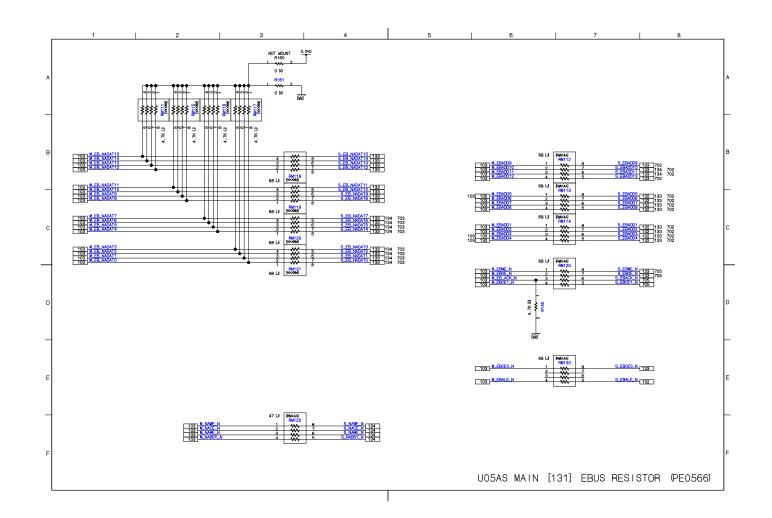


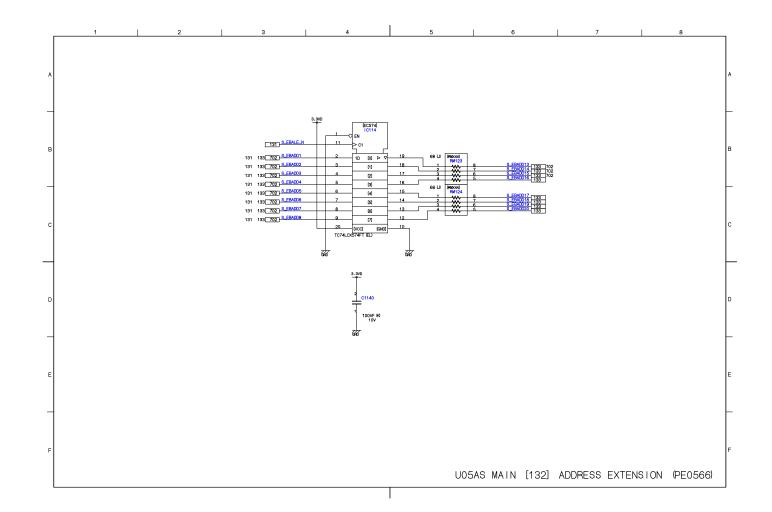


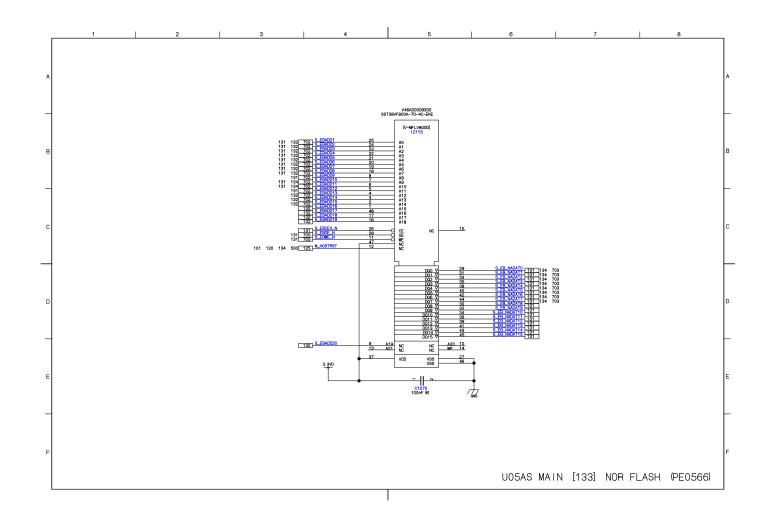


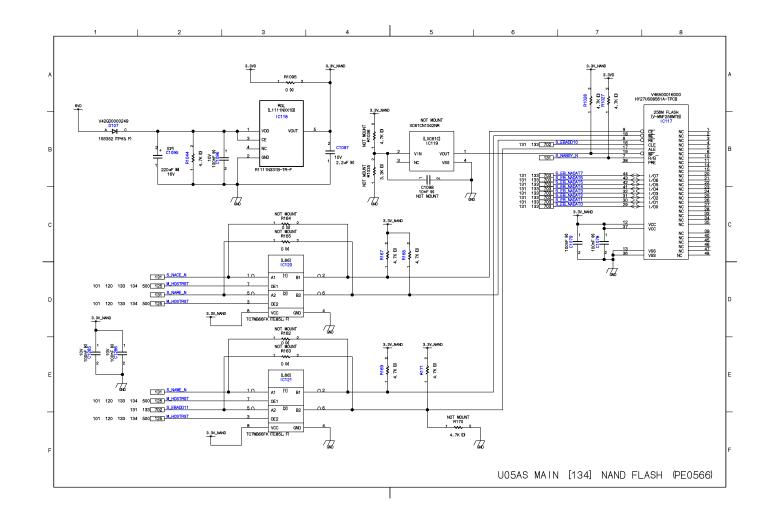


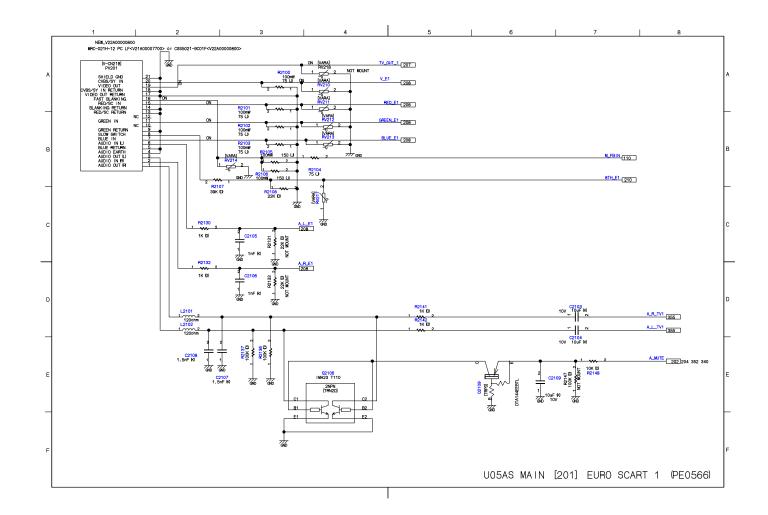


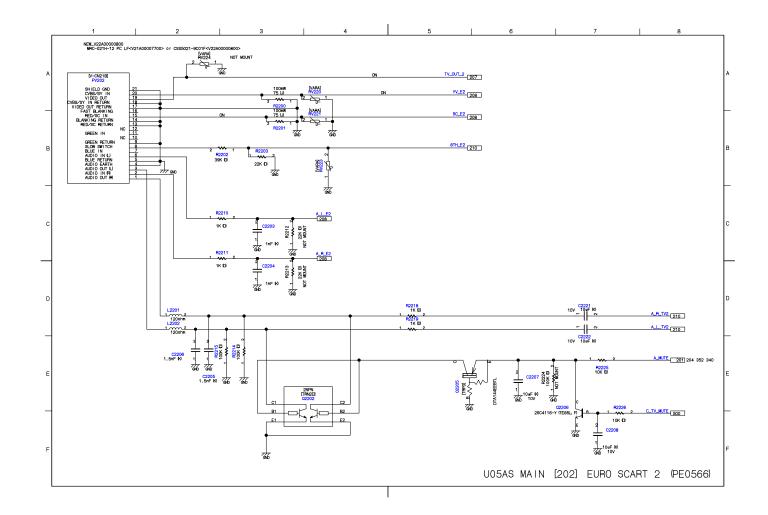


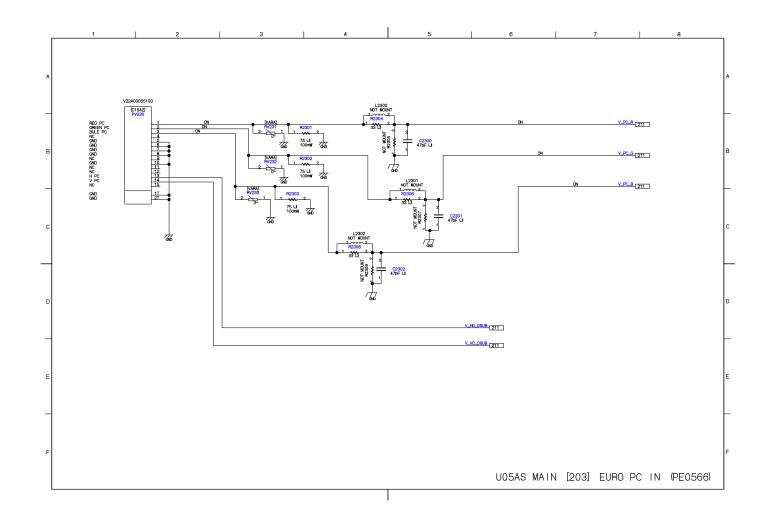


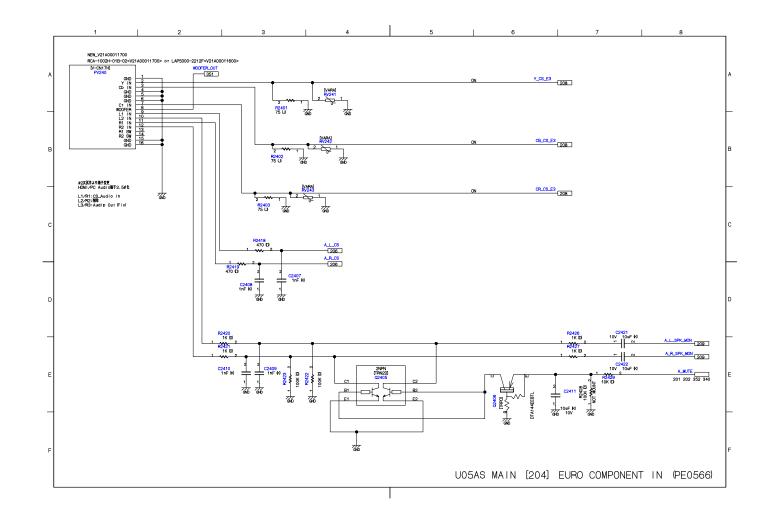


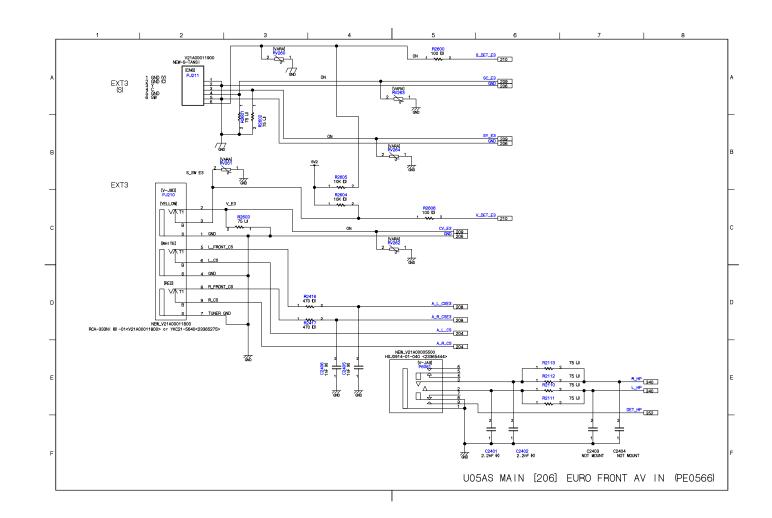


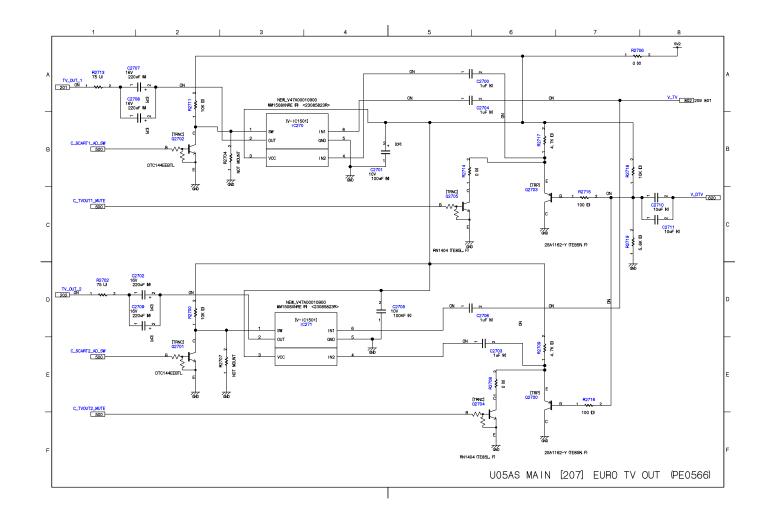


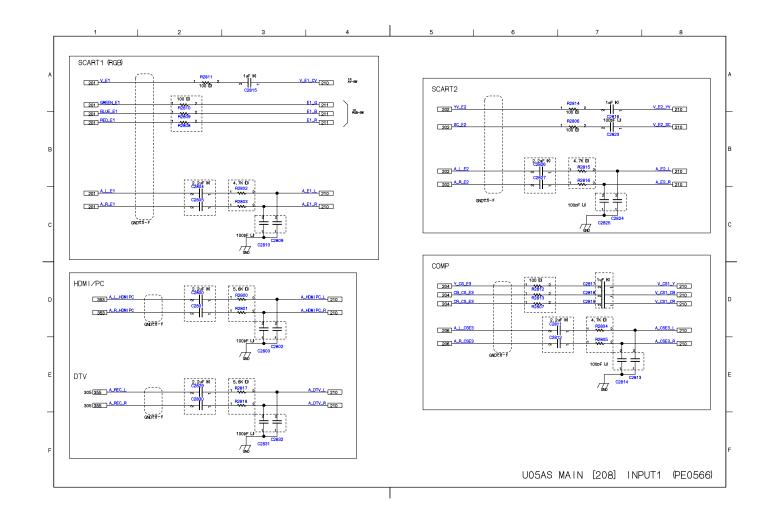


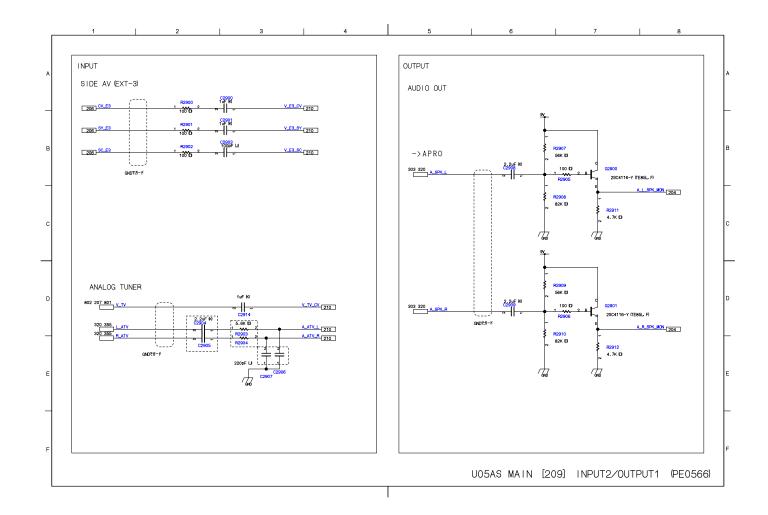


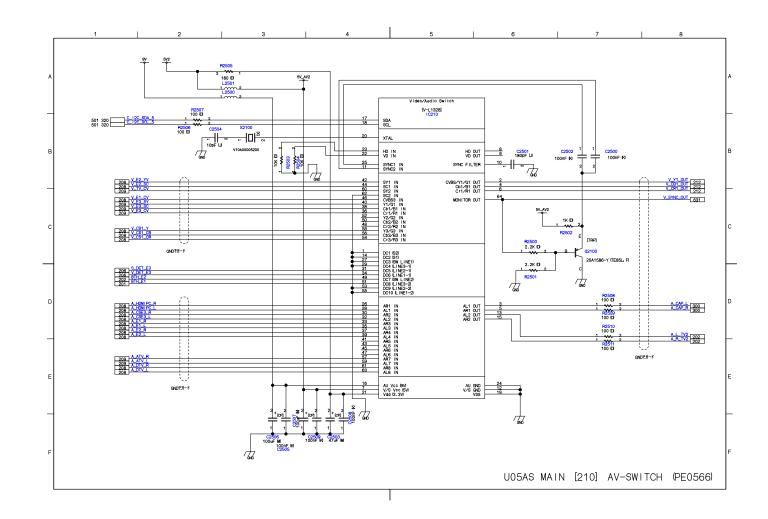


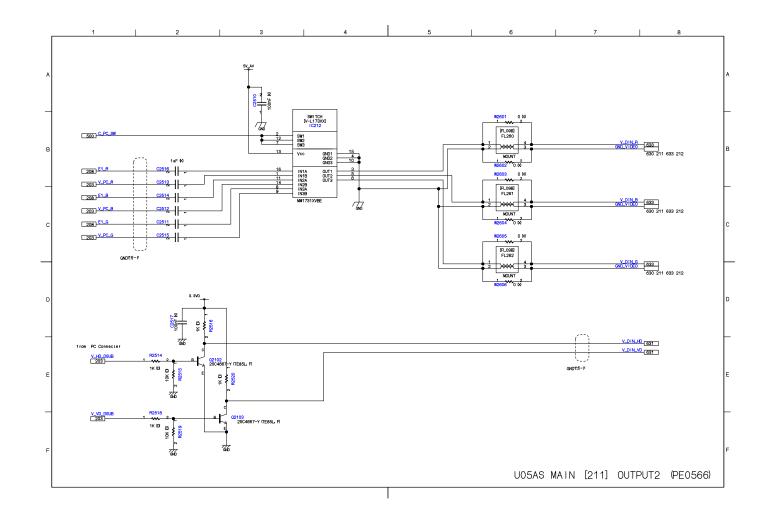


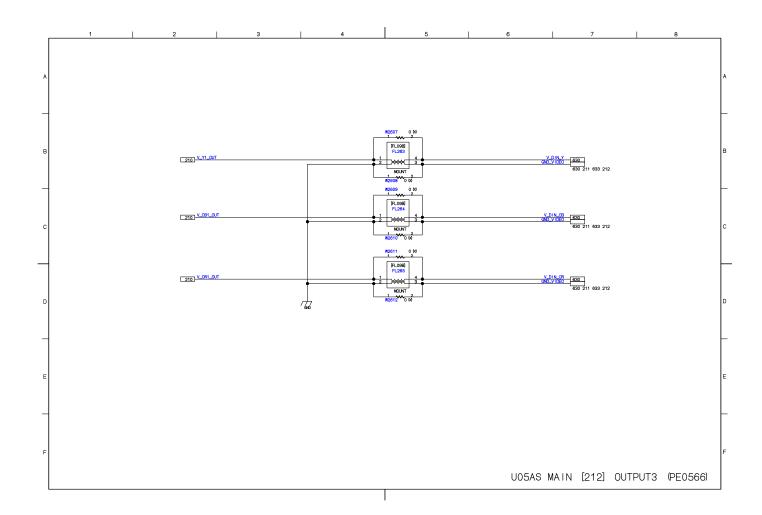


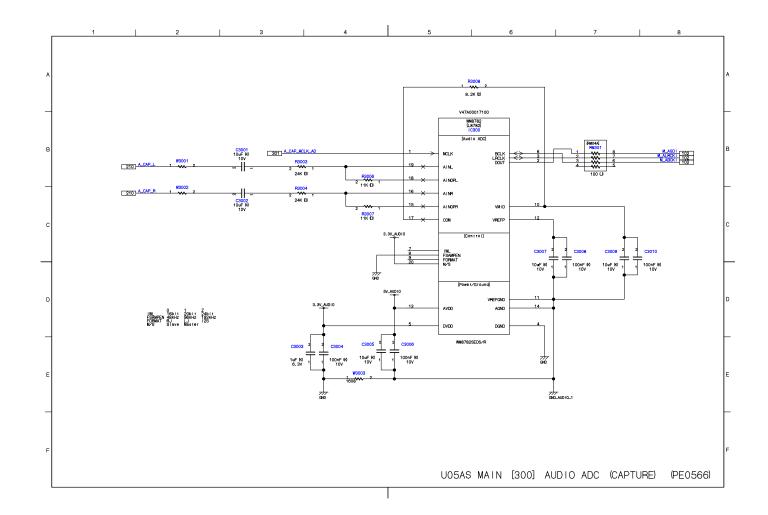


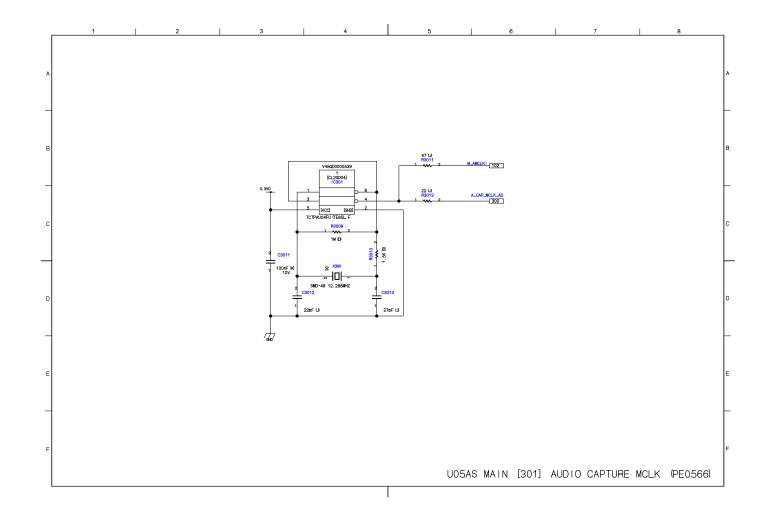


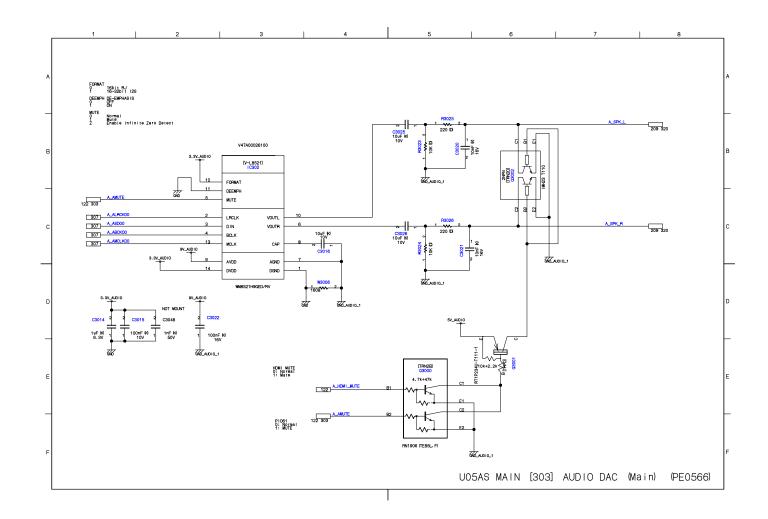


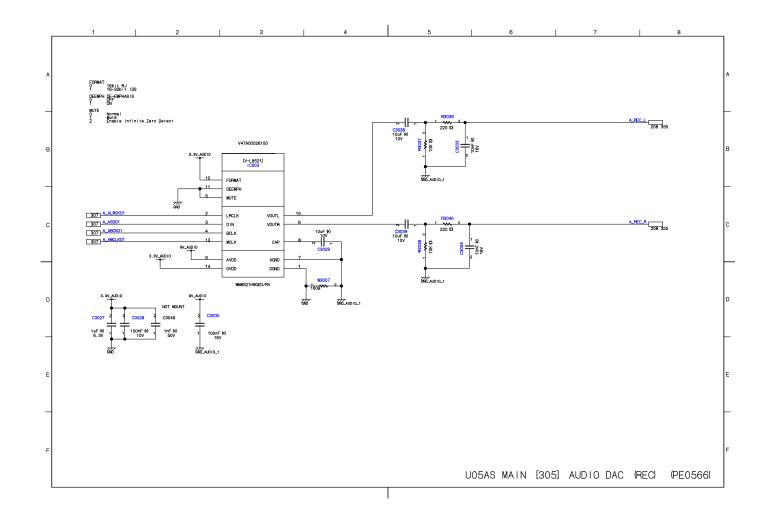


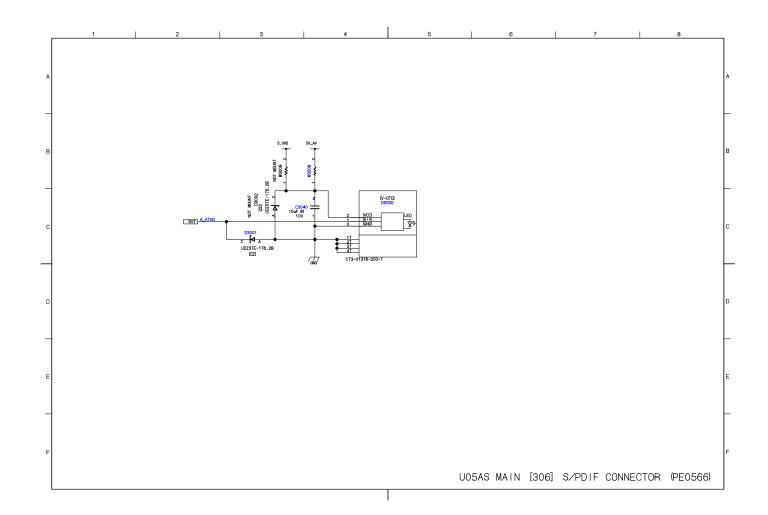


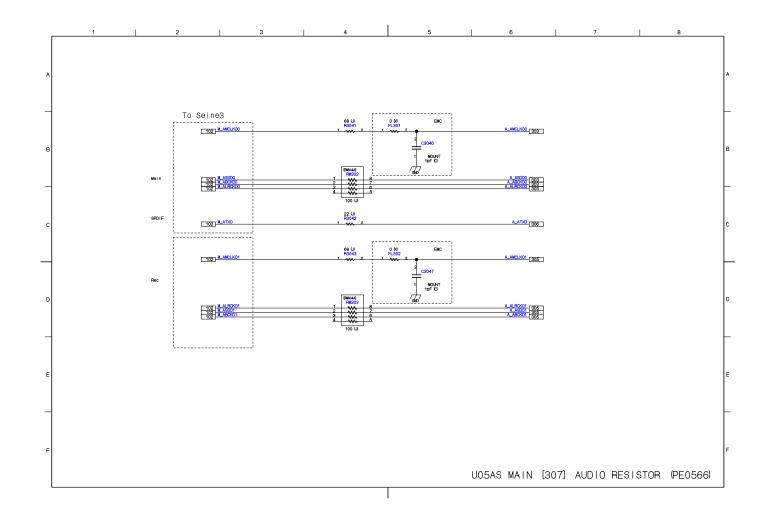


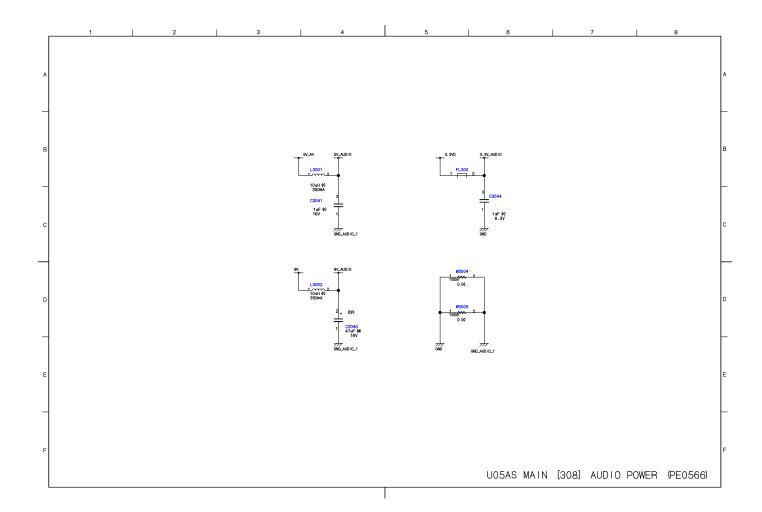


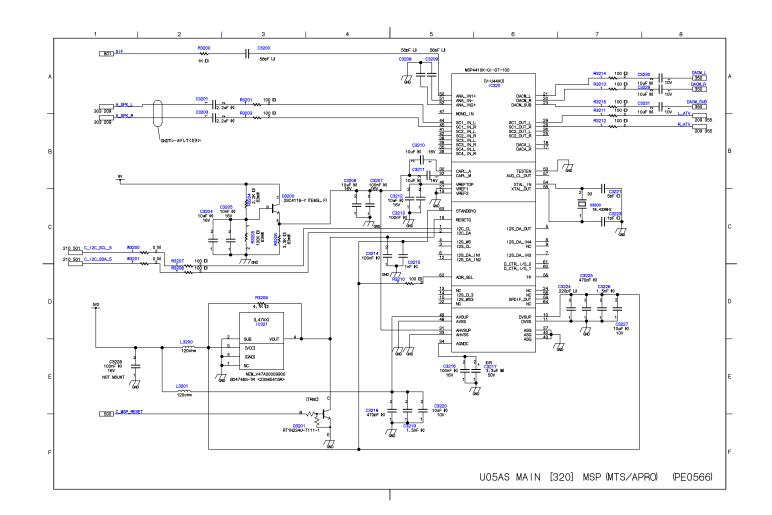


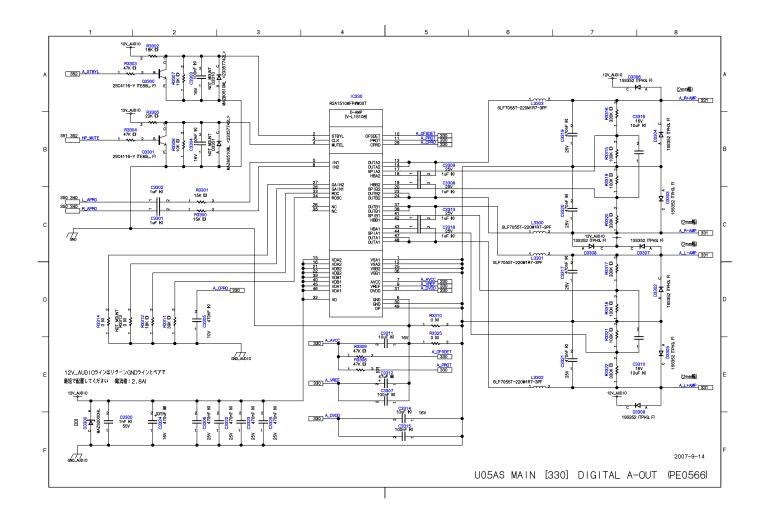


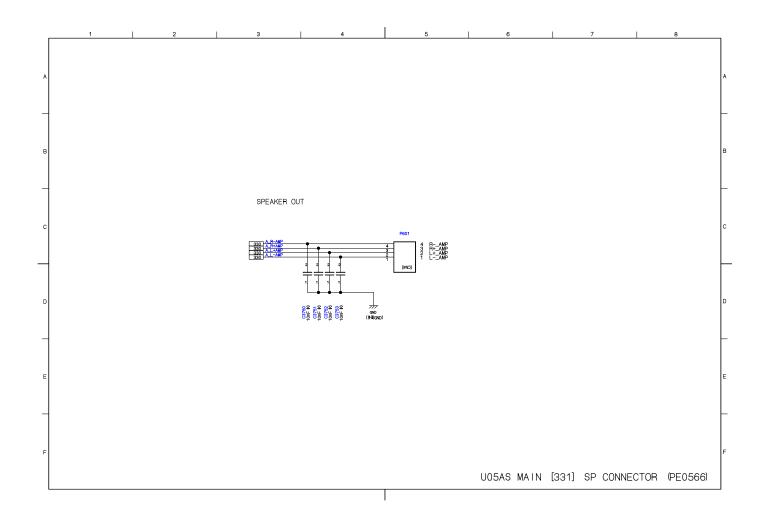


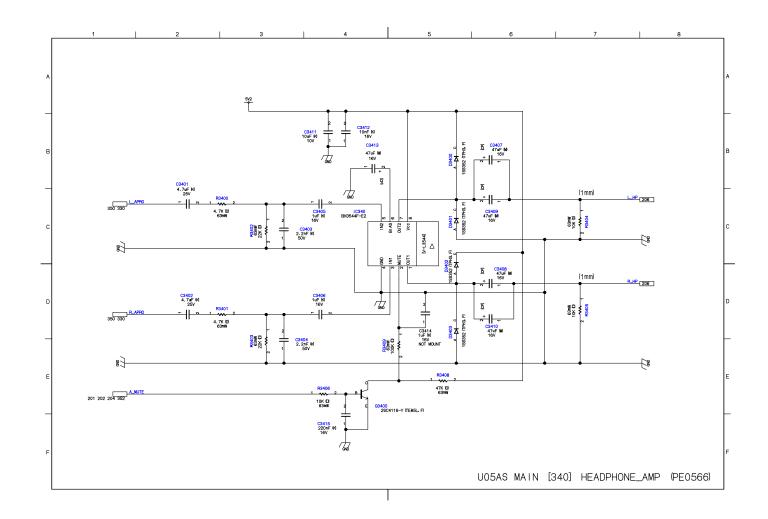


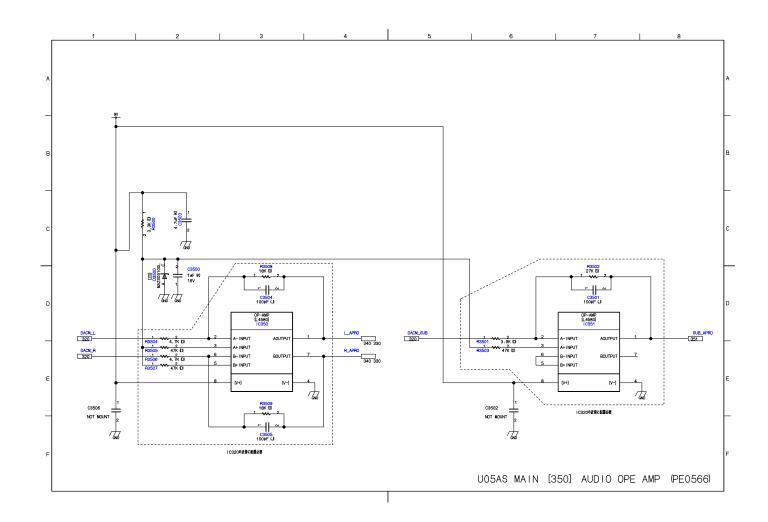


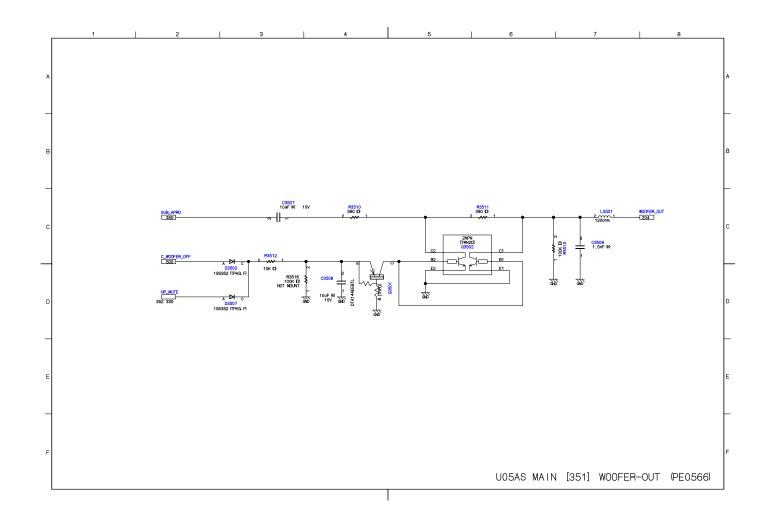


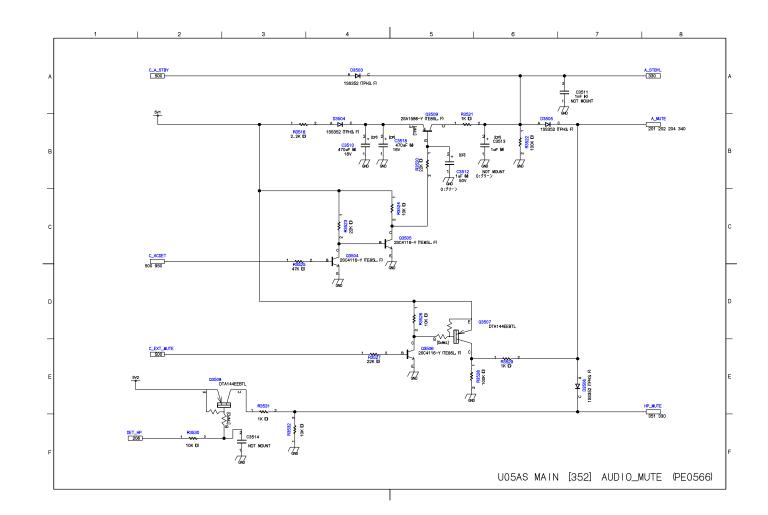


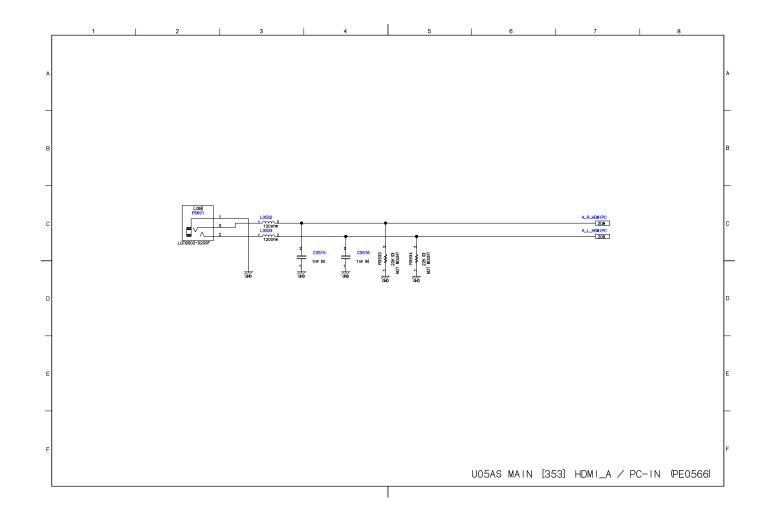


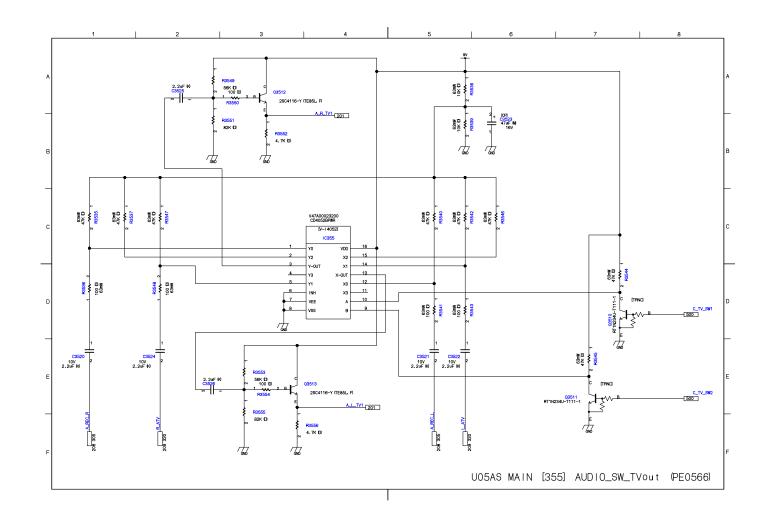


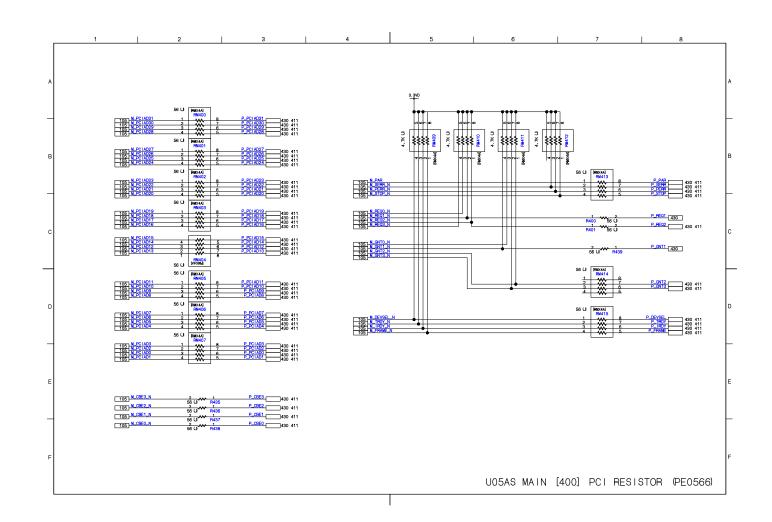


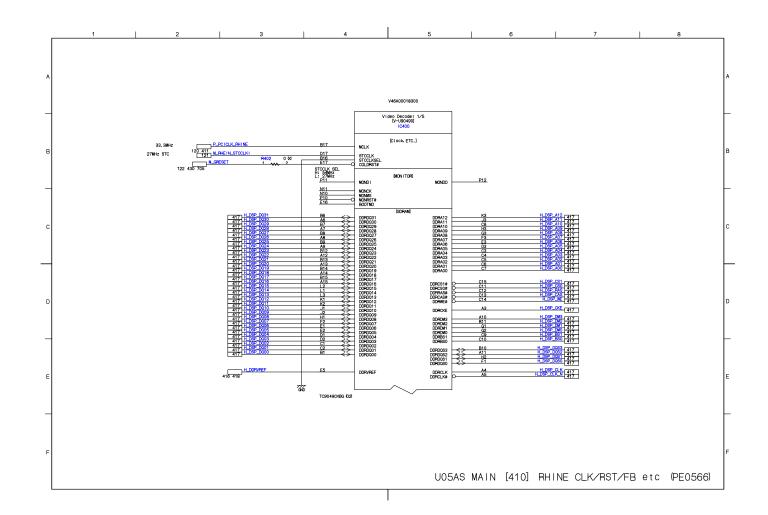


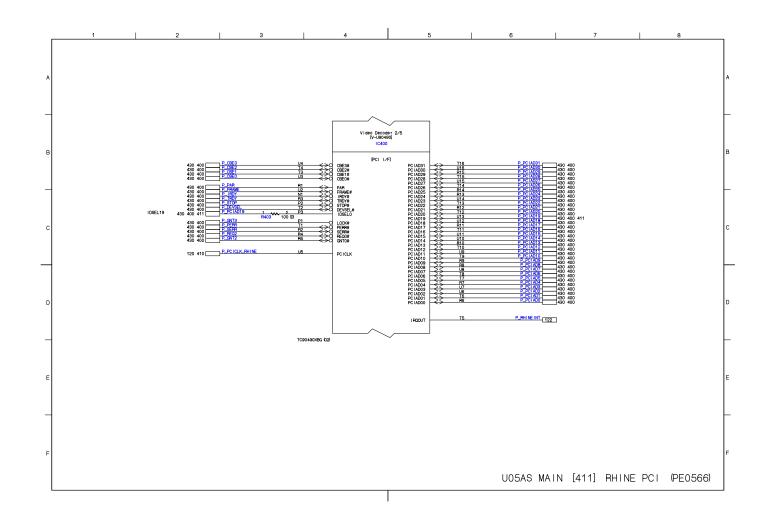


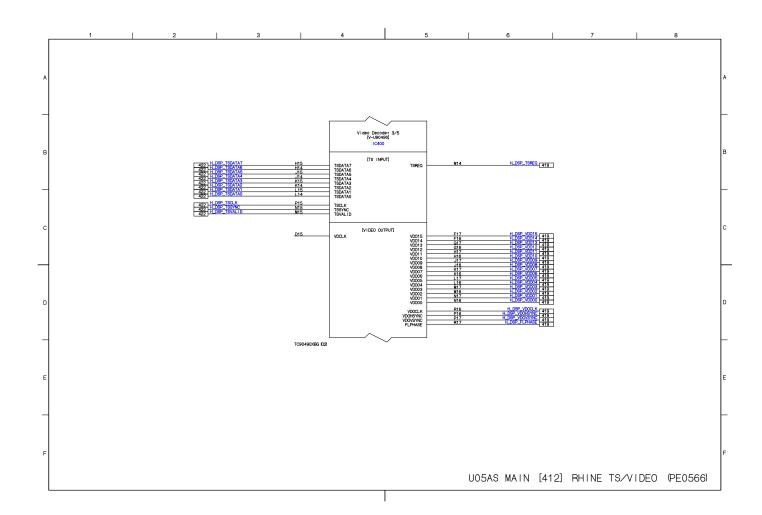


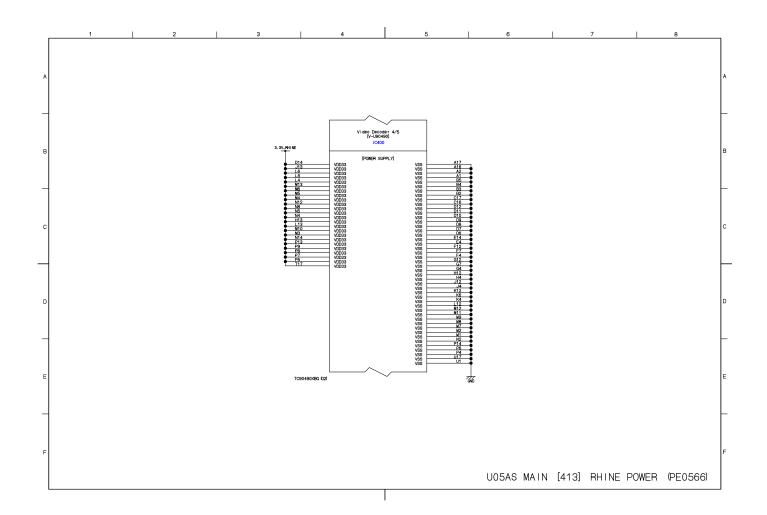


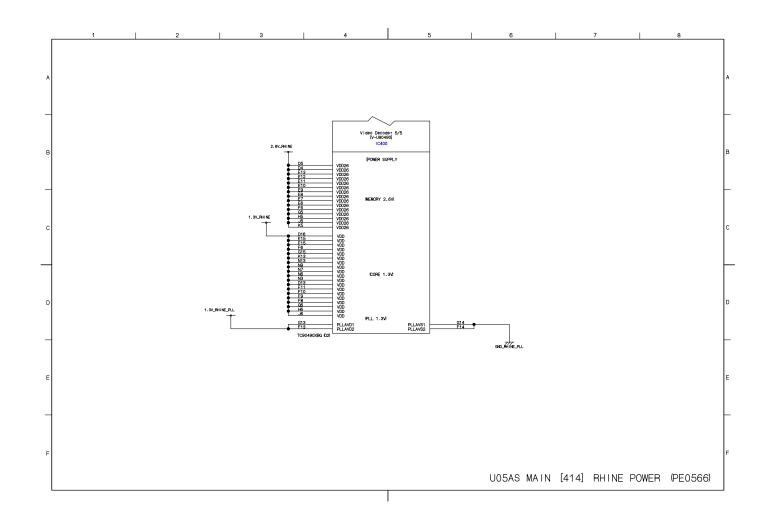


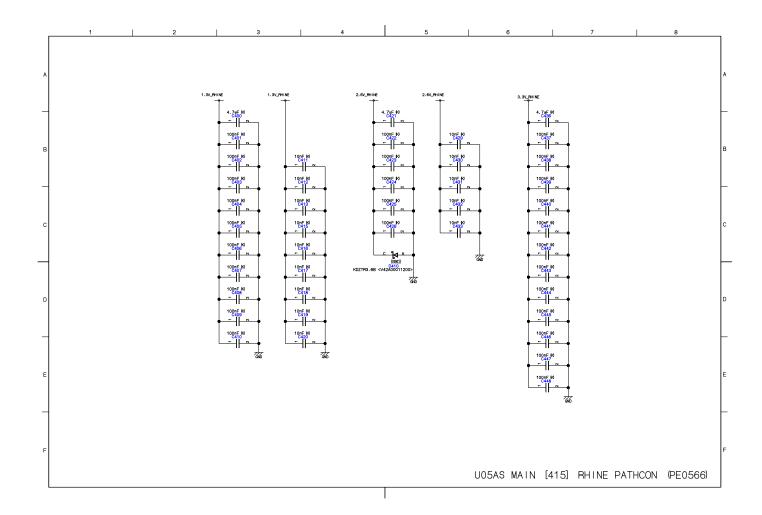


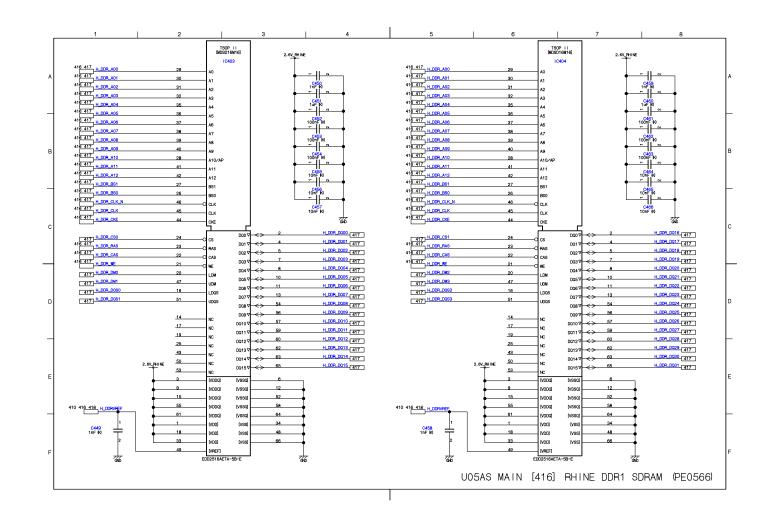


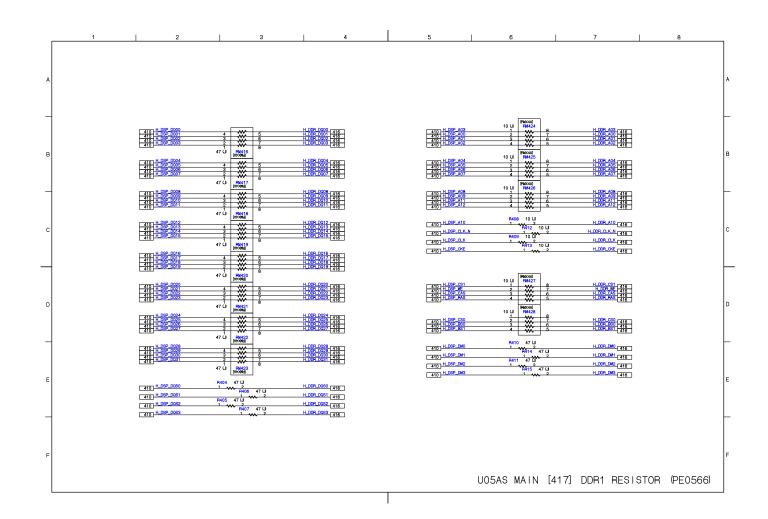


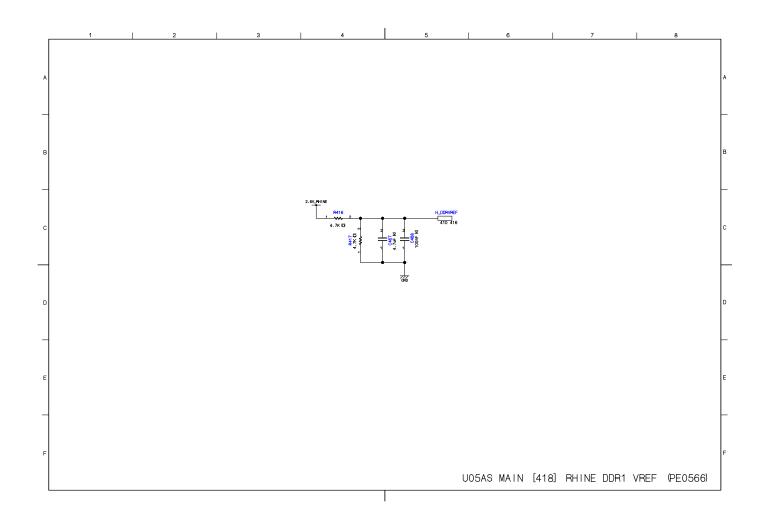


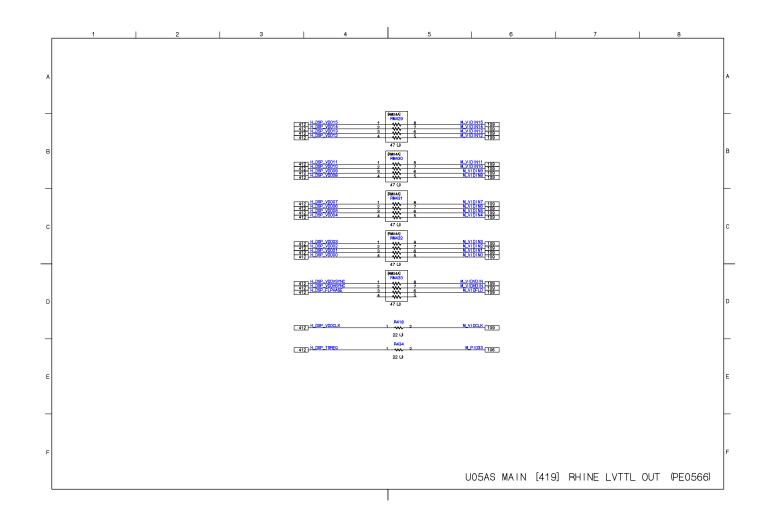


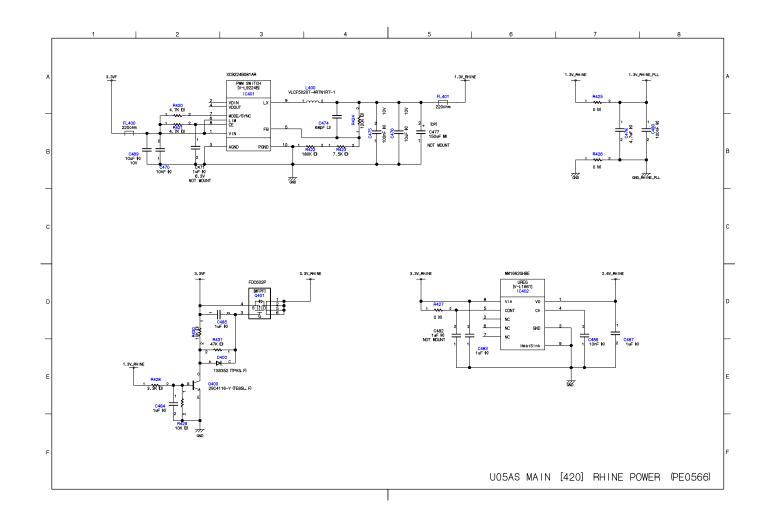


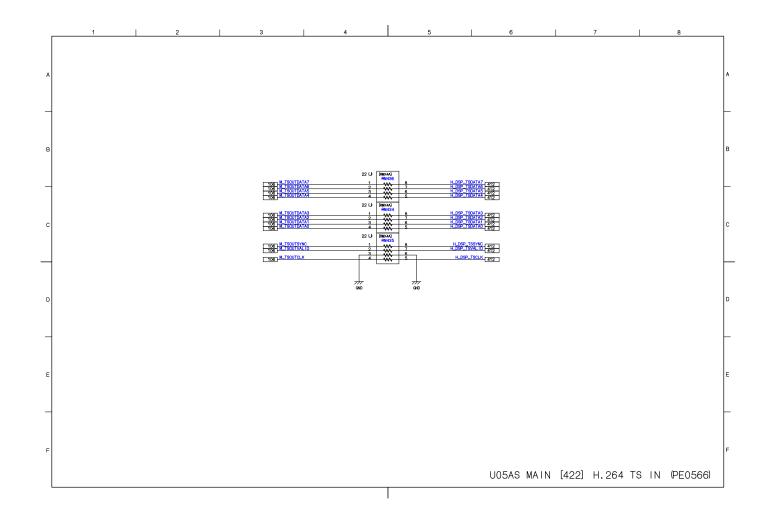


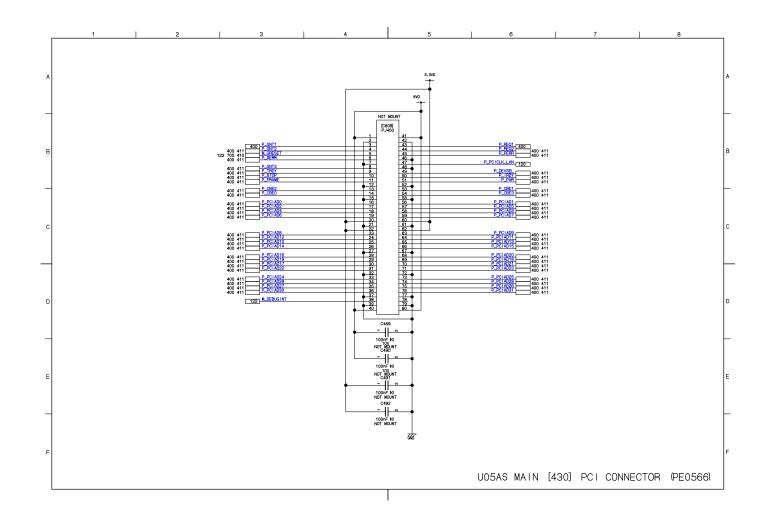


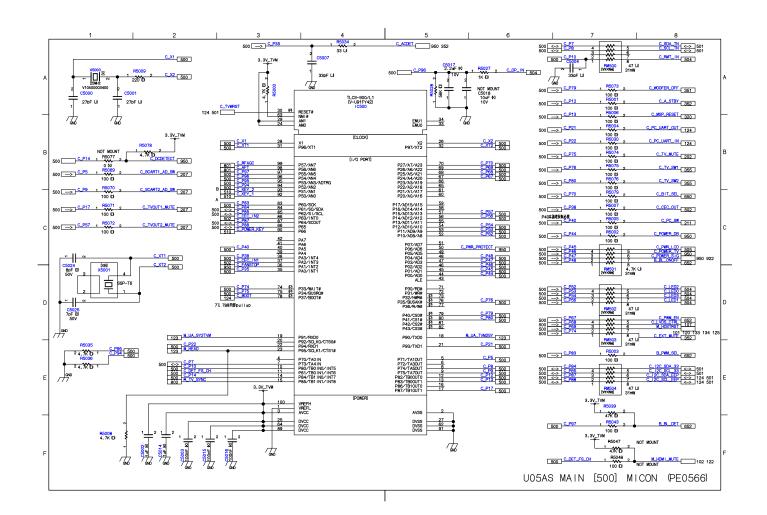


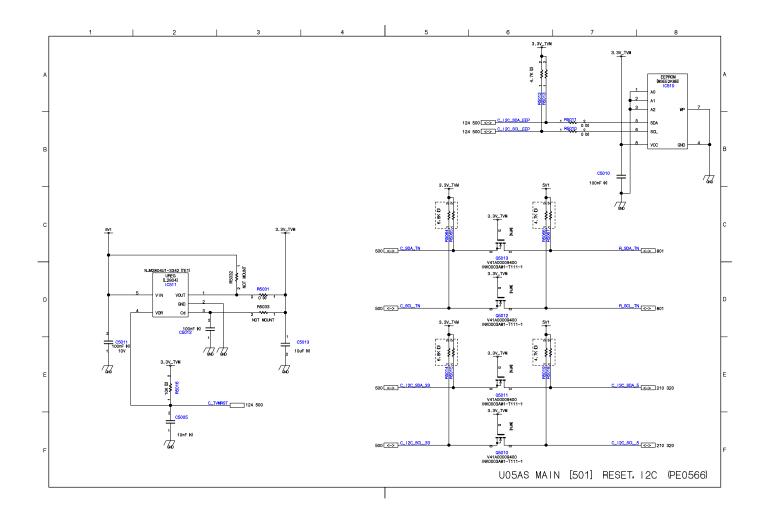


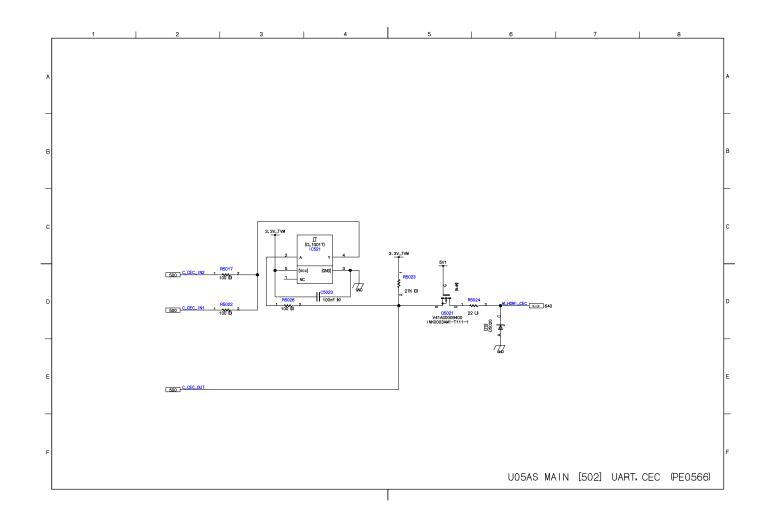


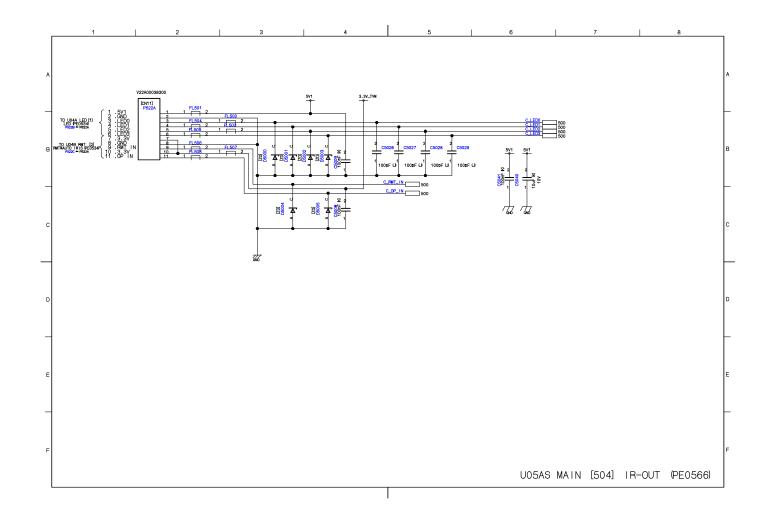


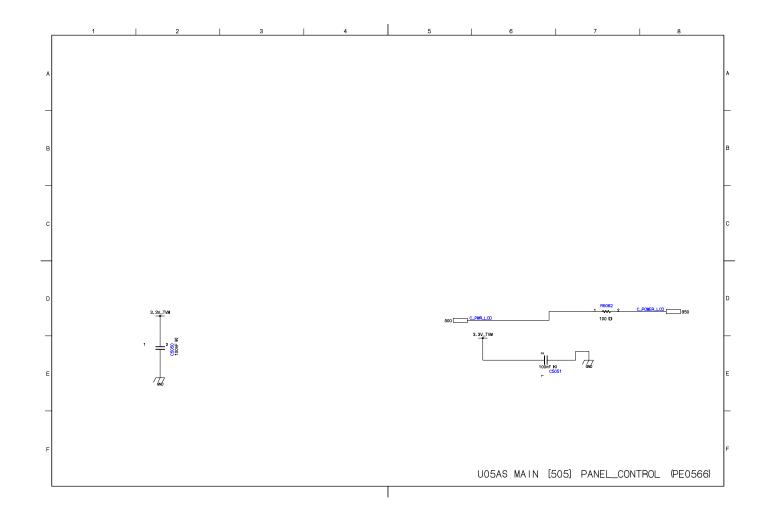


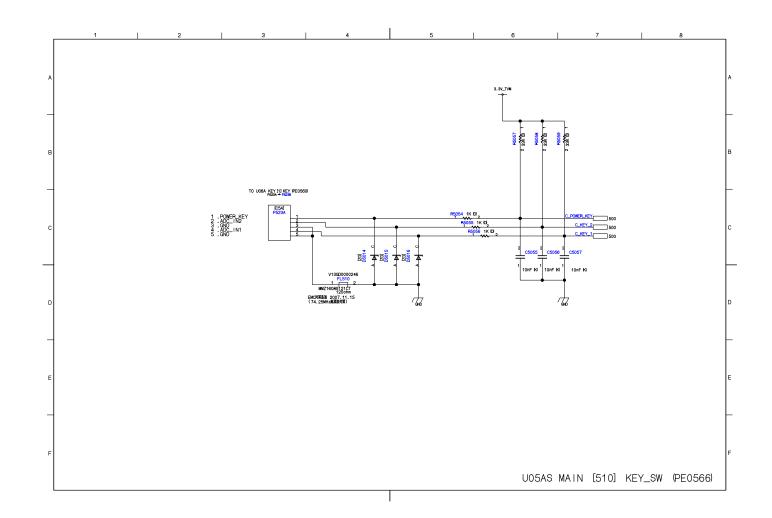


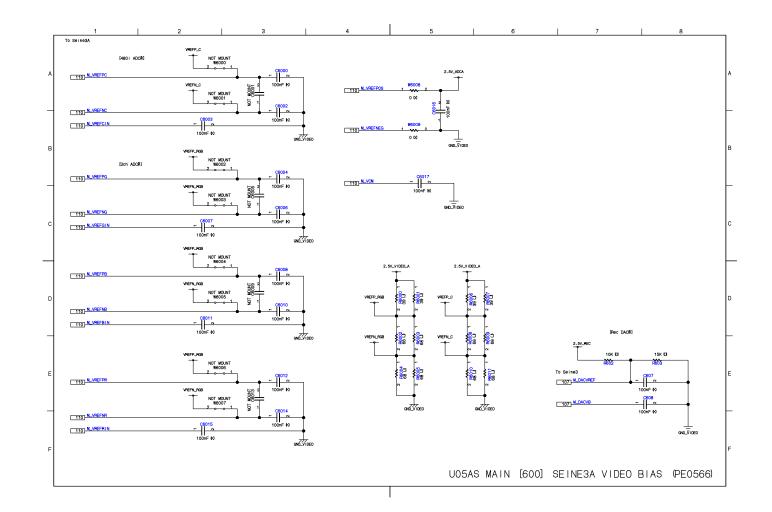


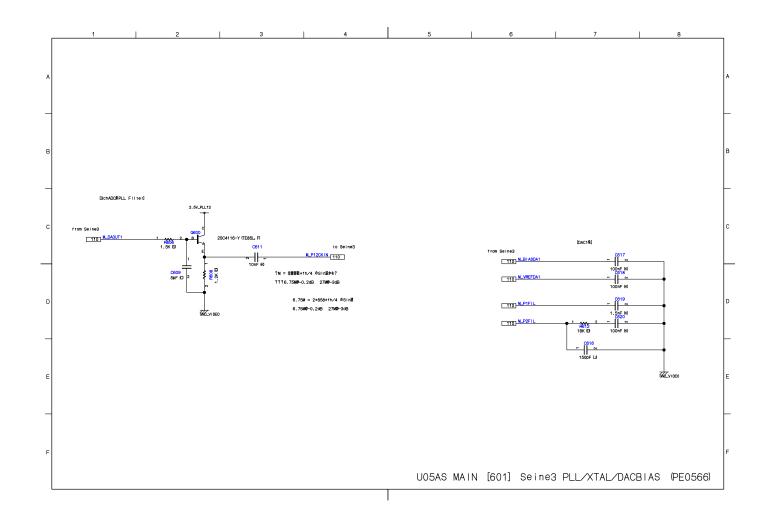


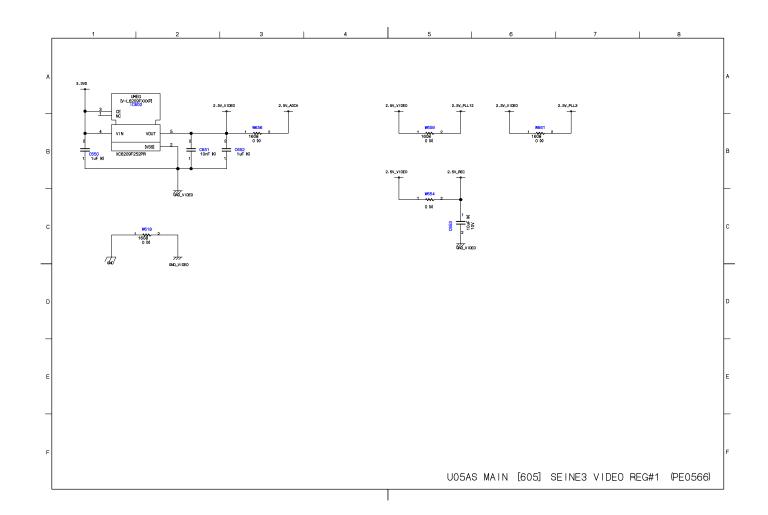


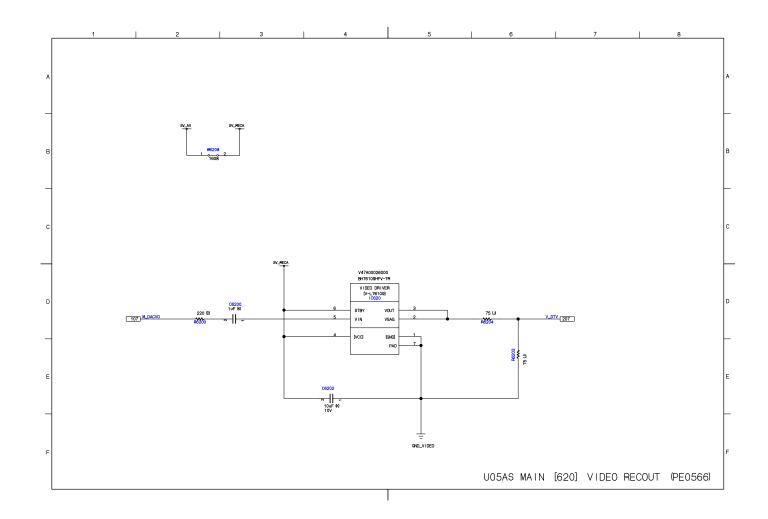


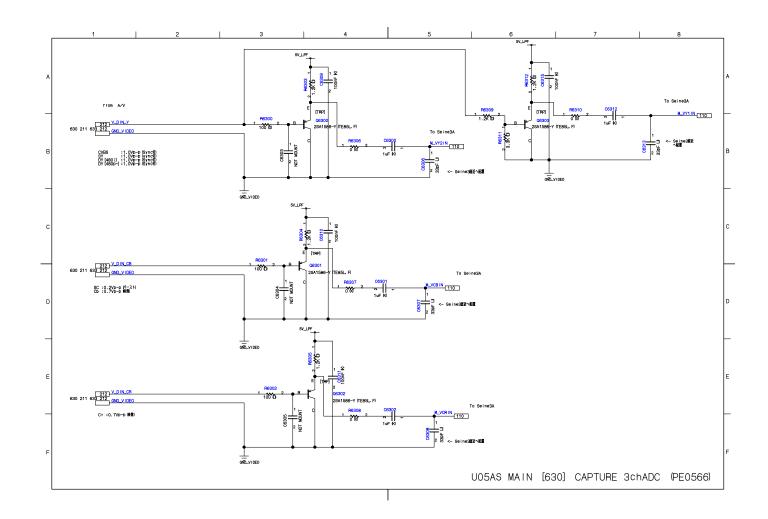


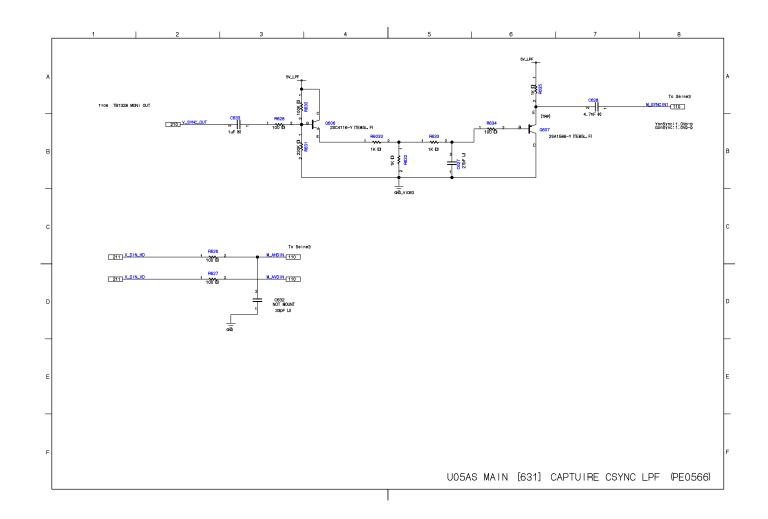


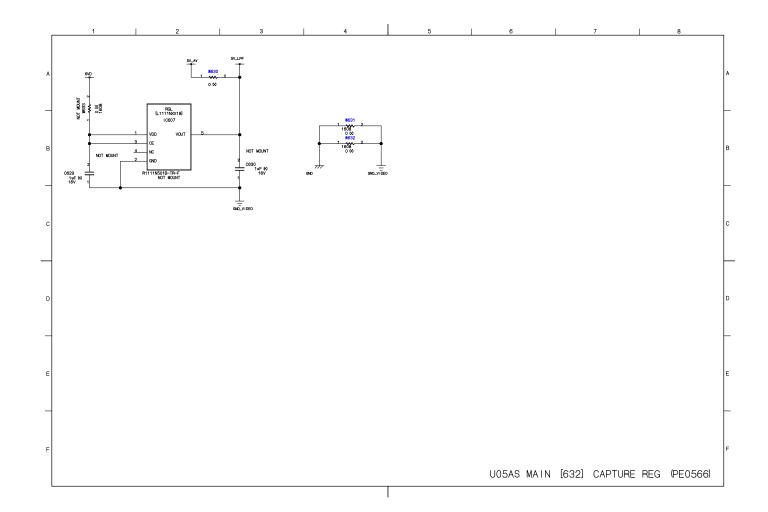


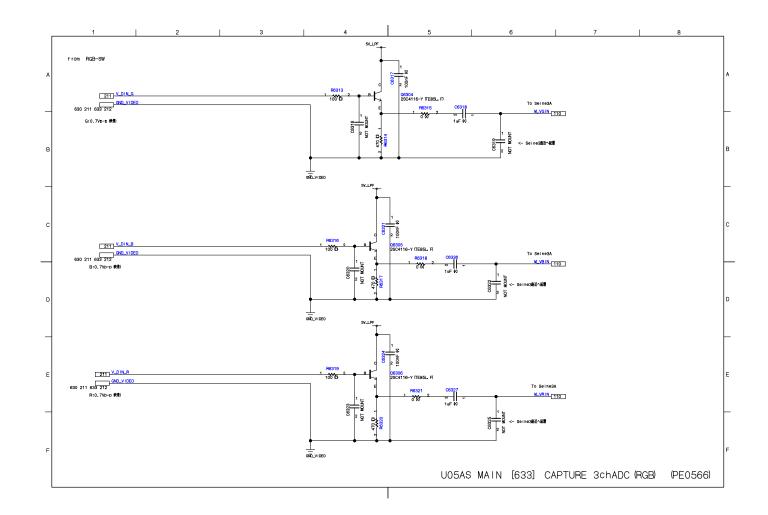


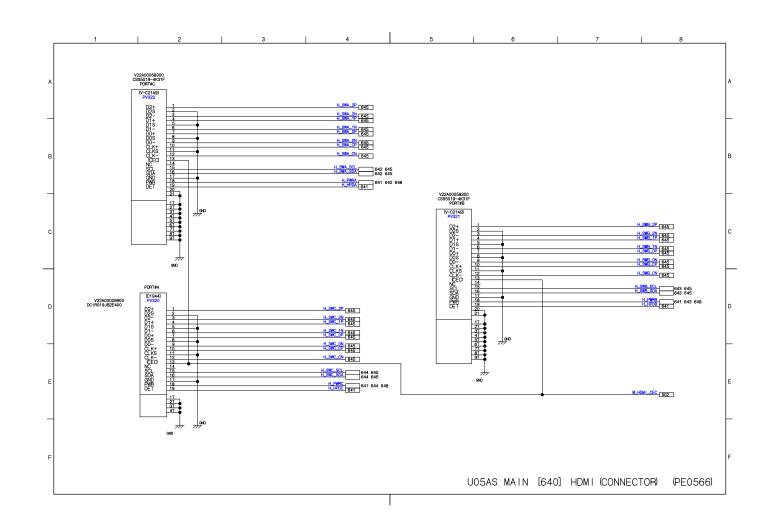


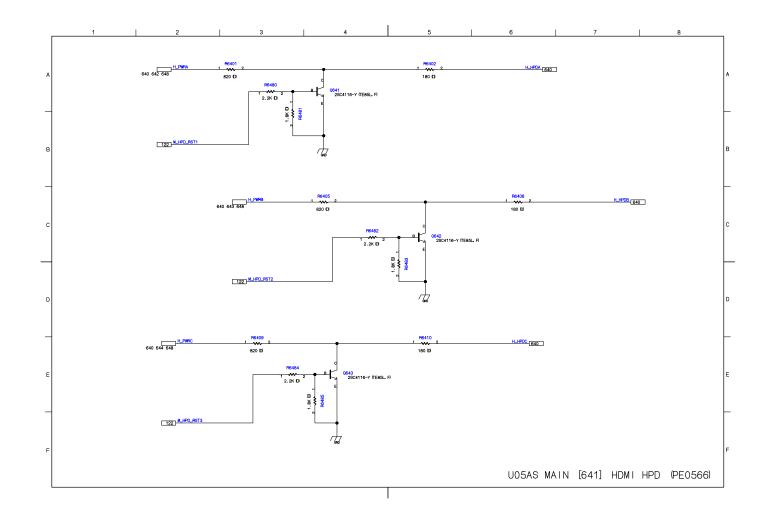


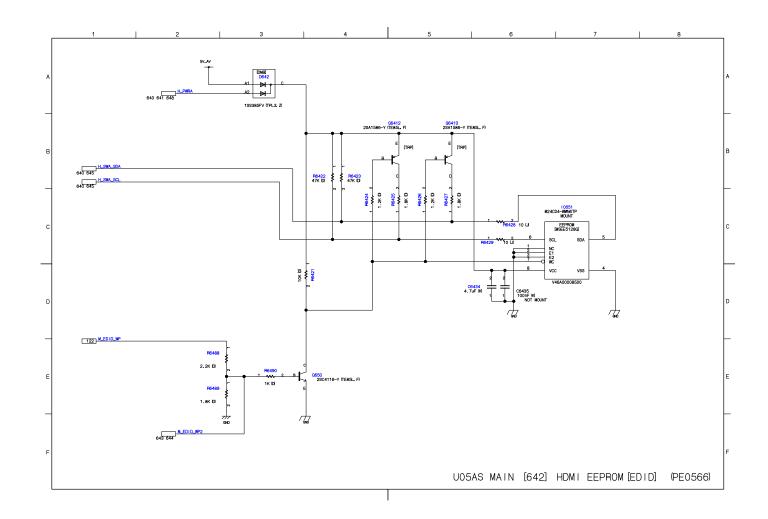


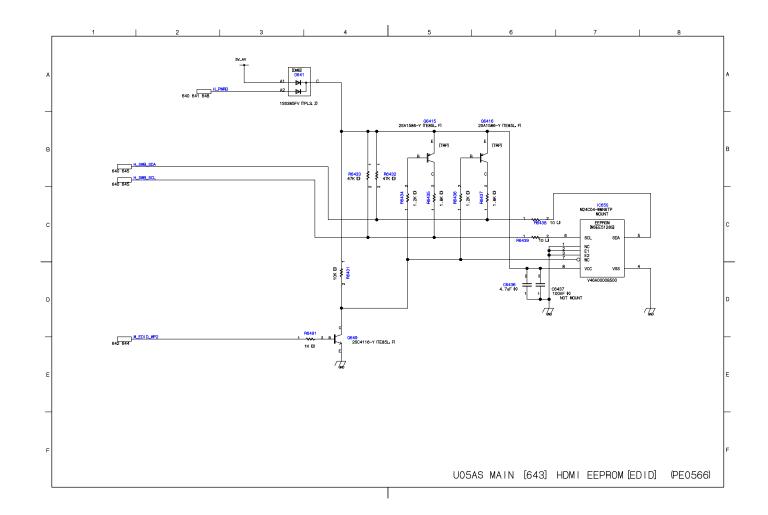


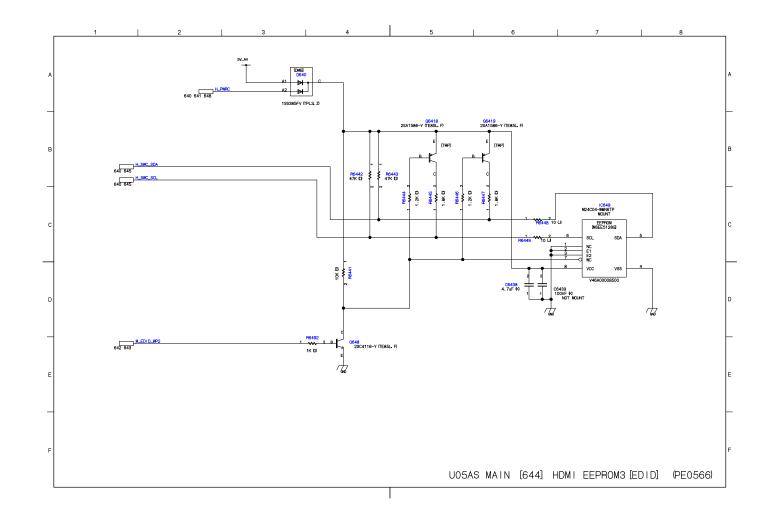


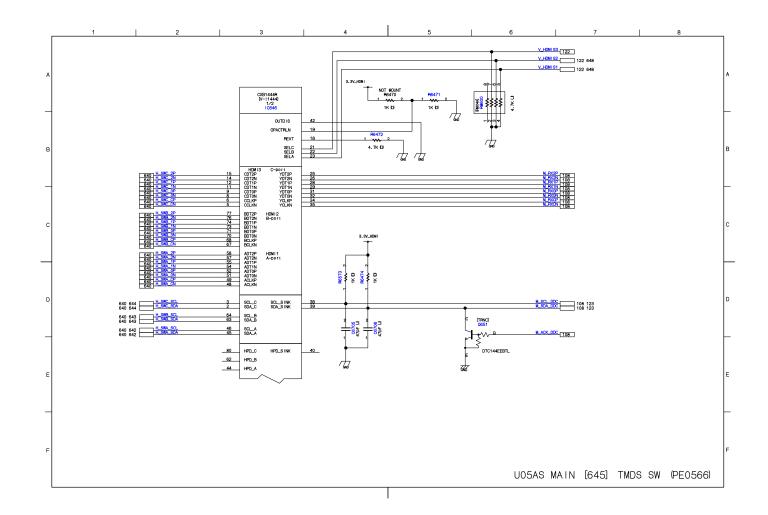


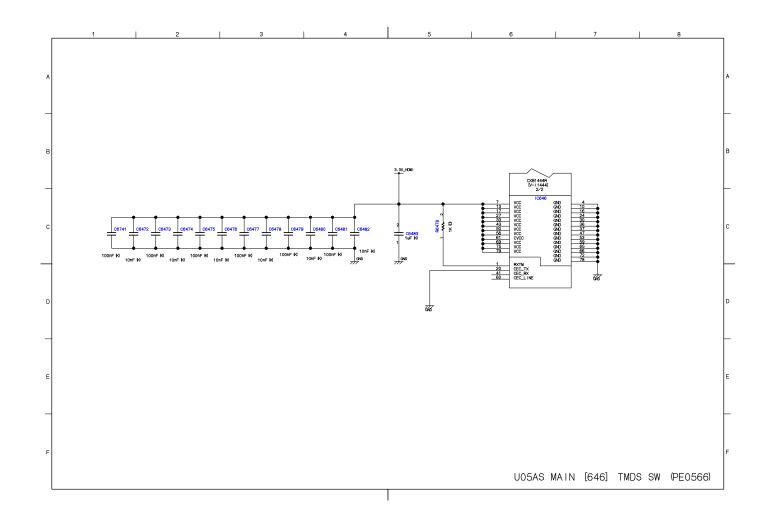


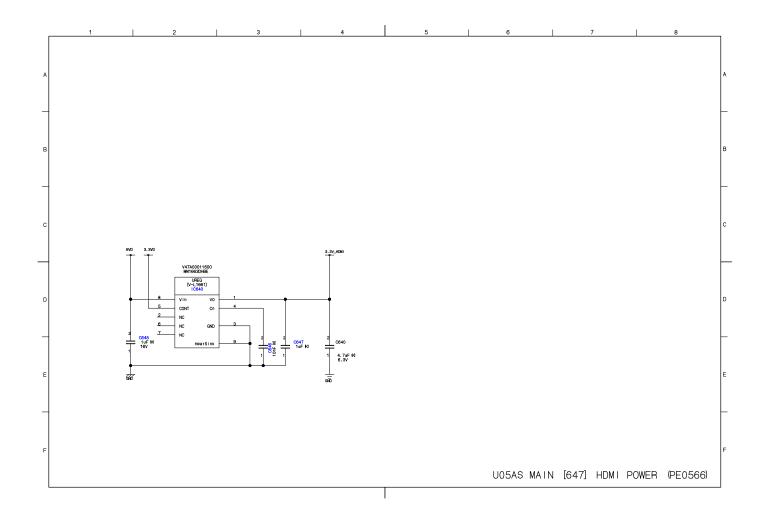


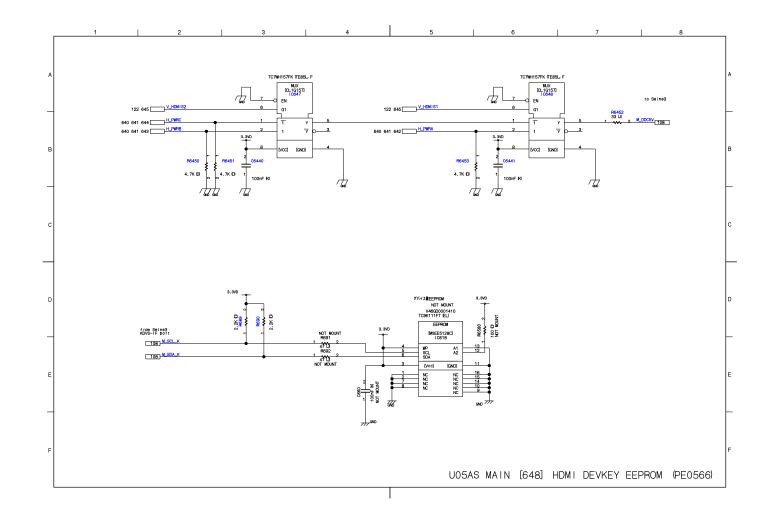


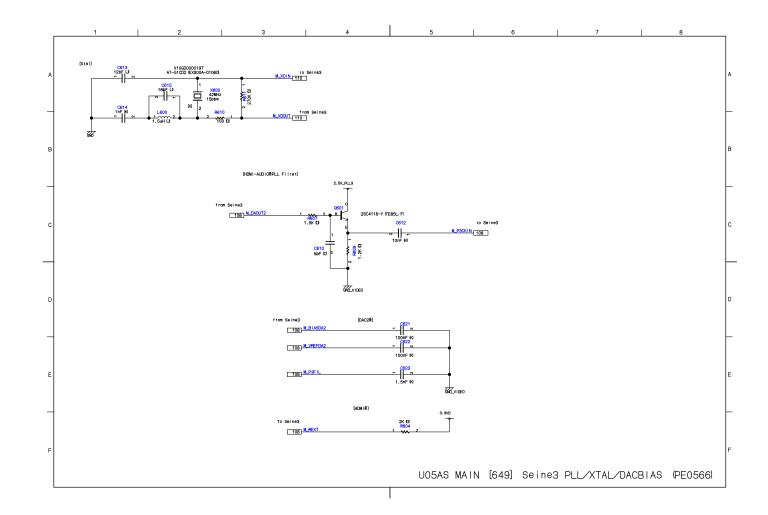


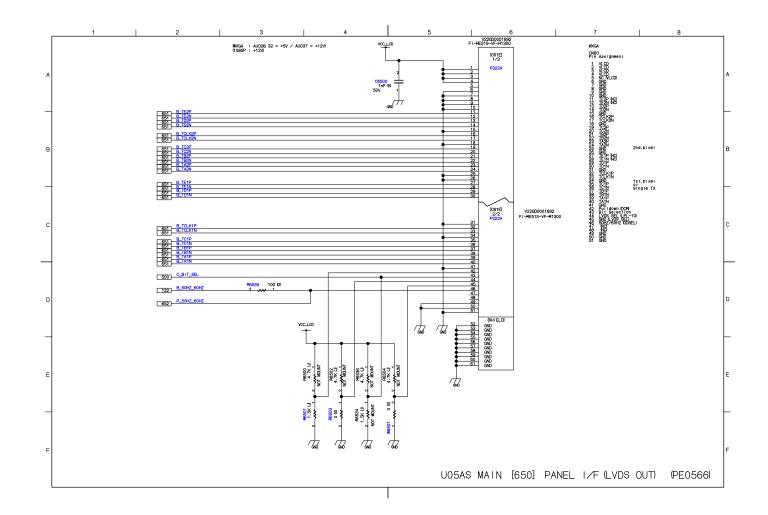


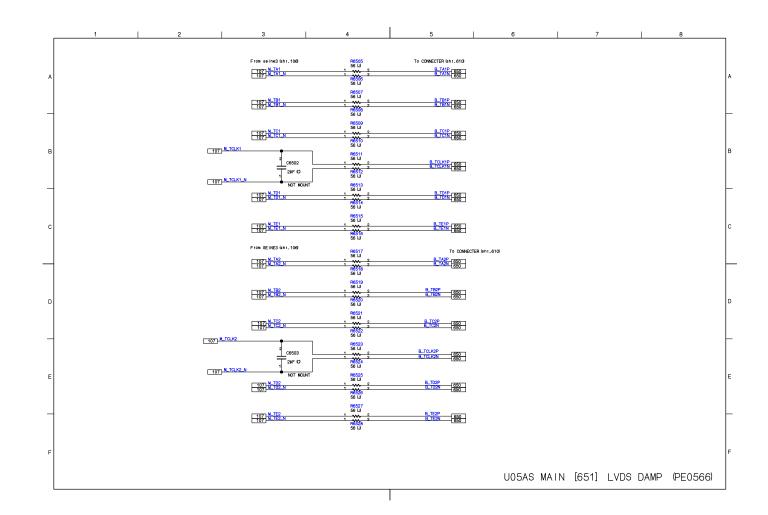


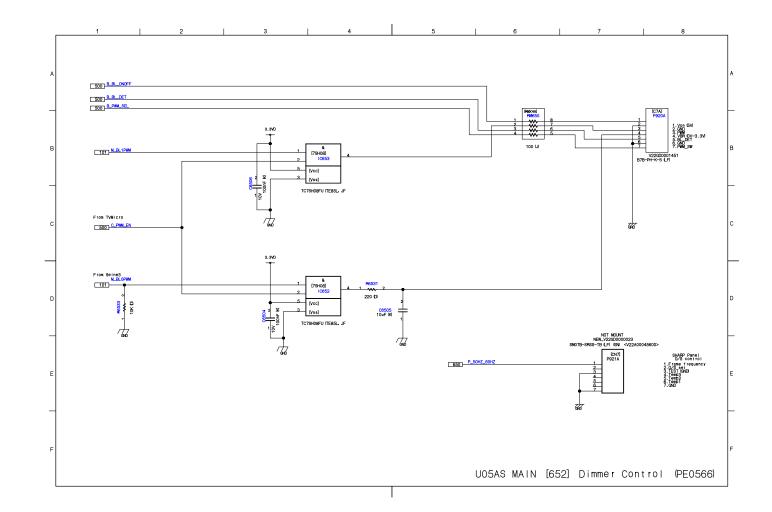


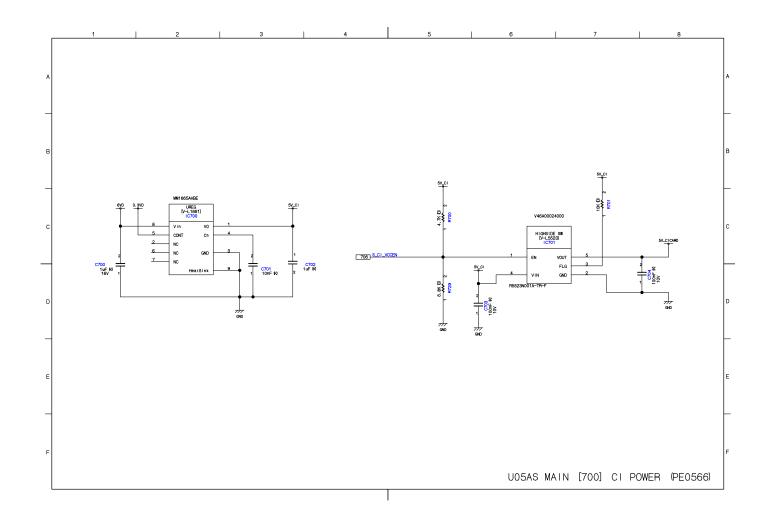


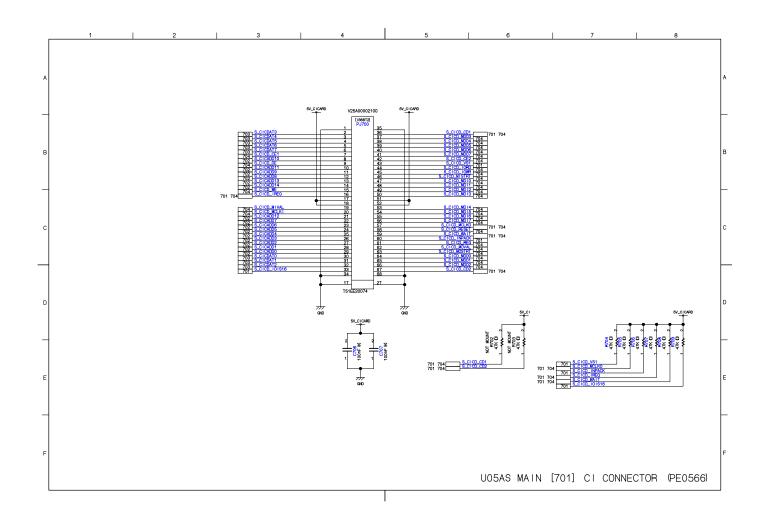


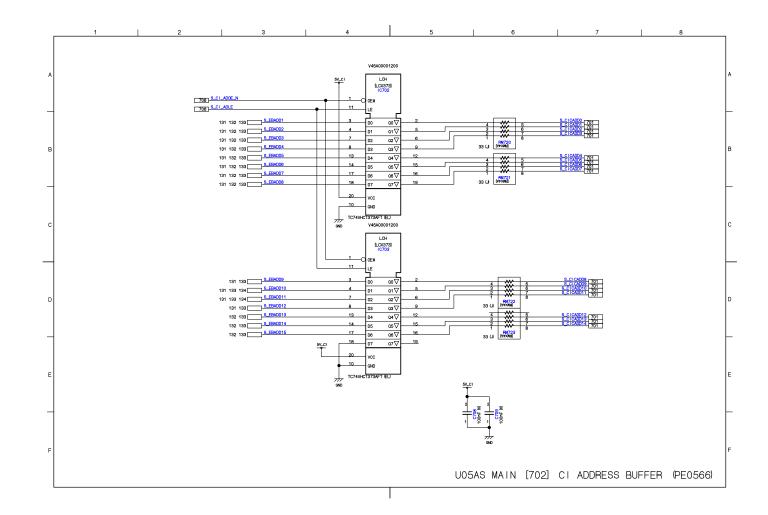


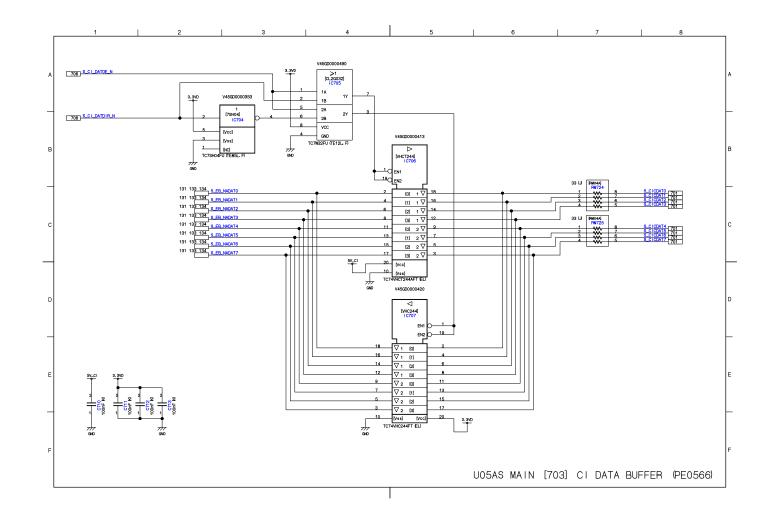


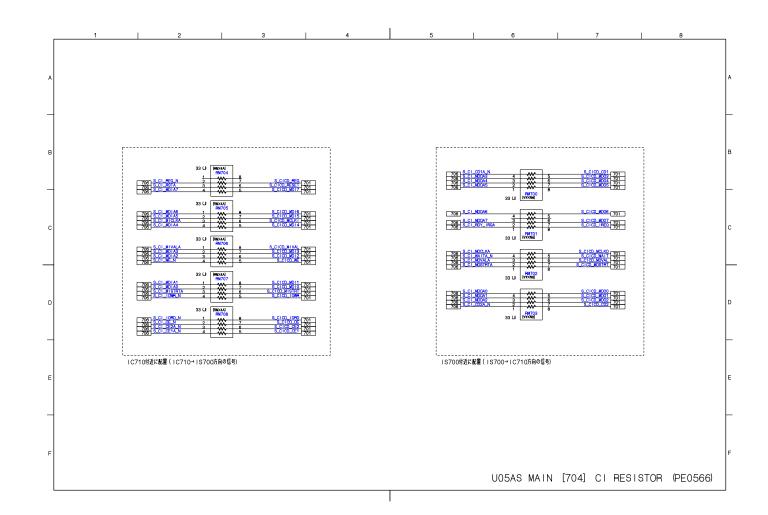


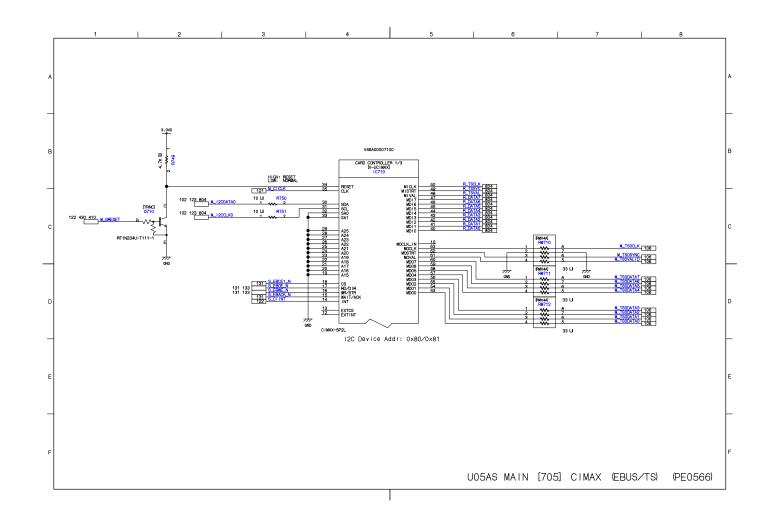


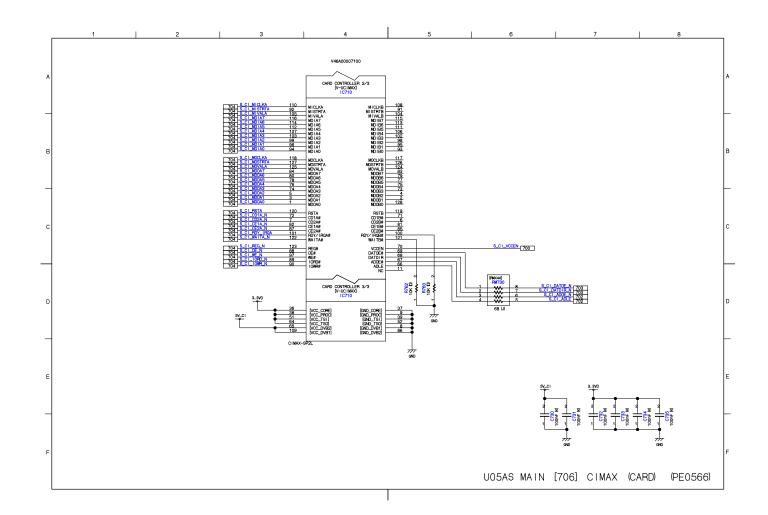


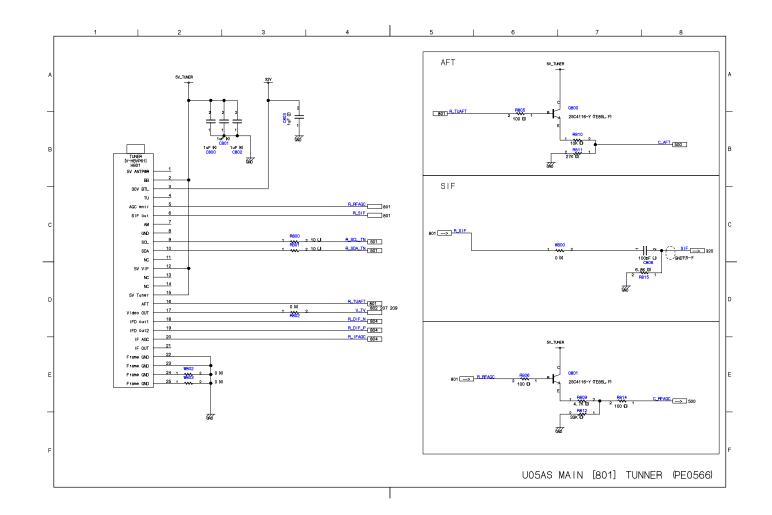


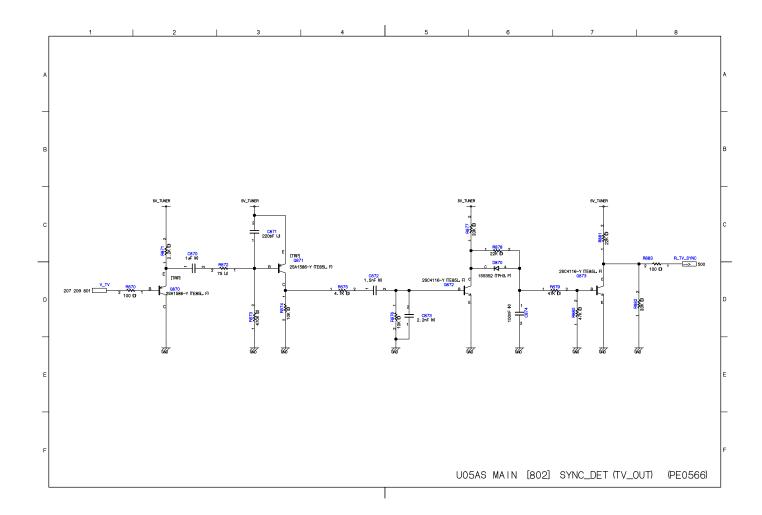


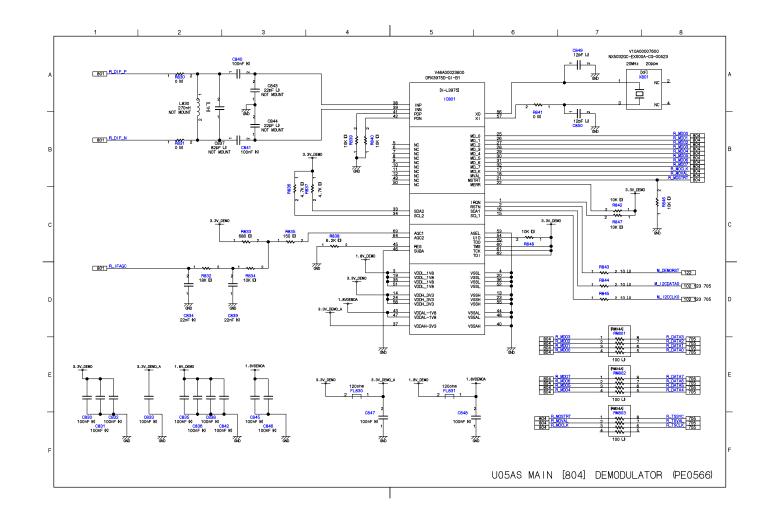


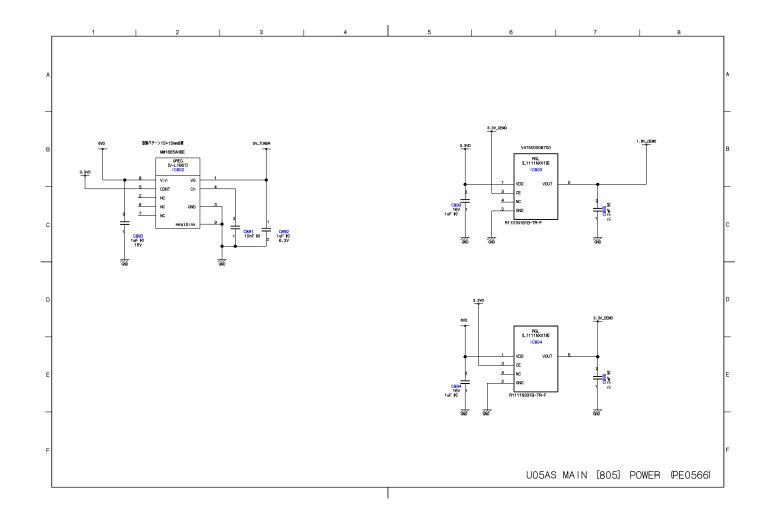


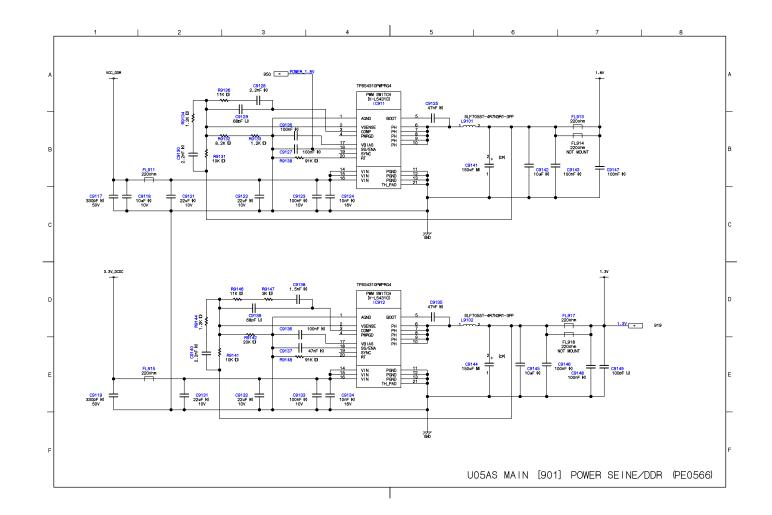


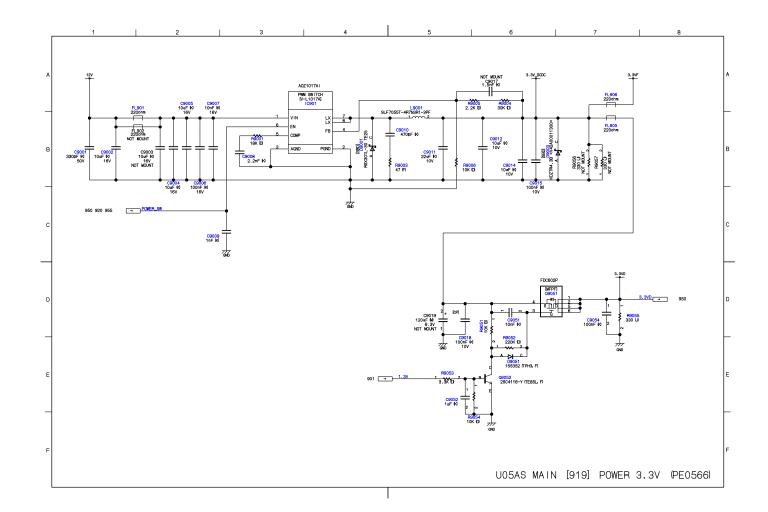


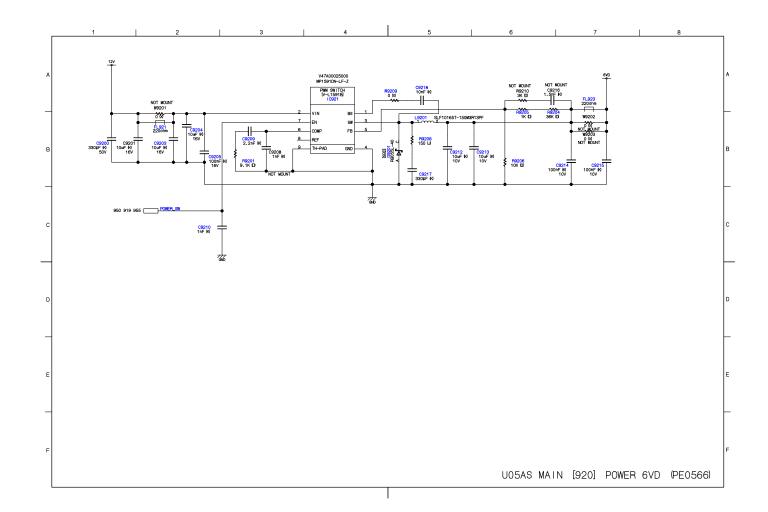


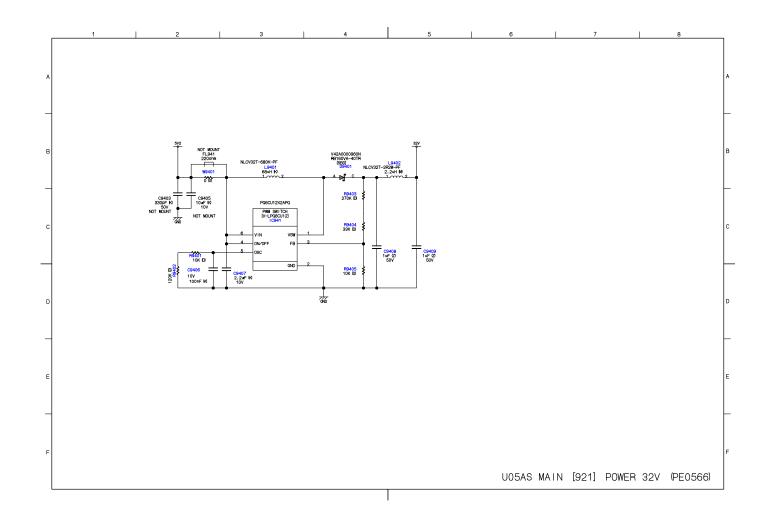


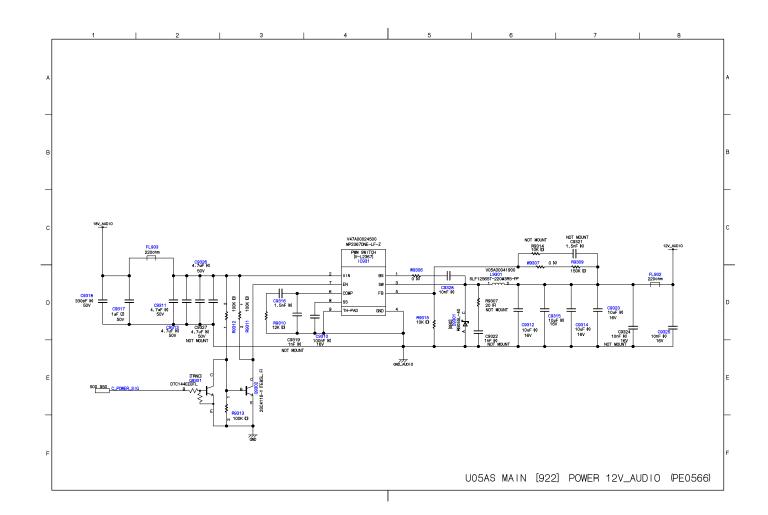


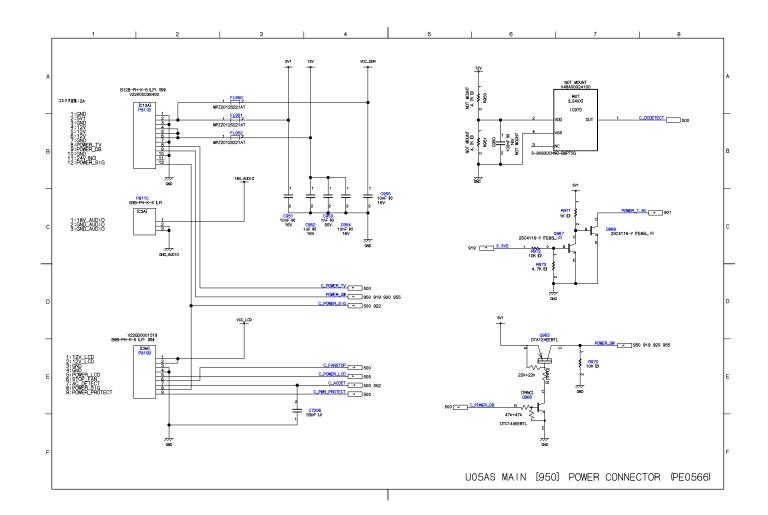


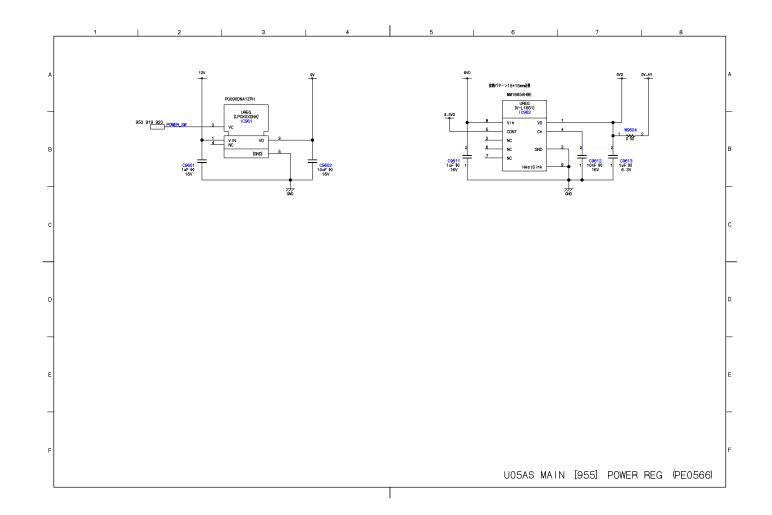


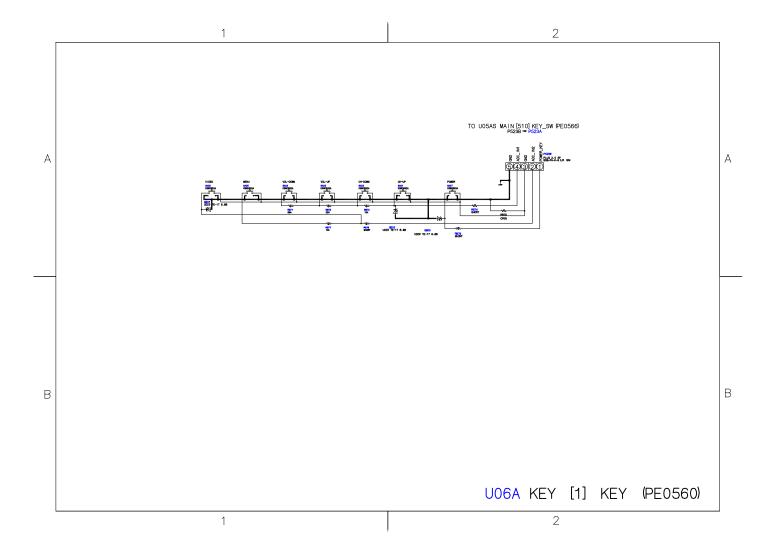














Block		Location	Parts No.	Description AASML \$\blacksquare\$
U03A AC-SW (PE0533)	*	U03A	75012739	PC BOARD ASSY, PE0533B1, AC-SW
U03A AC-SW (PE0533)	⚠	F850	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
U03A AC-SW (PE0533)		F850A	23165433	FUSE HOLDER, 5.2
U03A AC-SW (PE0533)	<u> </u>	F850B	23165433	FUSE HOLDER, 5.2
U03A AC-SW (PE0533)	⚠	P801B	23757043	CONNECTOR, PLUG, B02B-VT-K(LF)(SN)
U03A AC-SW (PE0533)	⚠	P801C	23713702	PLUG, 2P 11.88MM W VT
U03A AC-SW (PE0533)	⚠	S801	75011067	SWITCH, PSE POWER, KDC-A02-F
U04A LED (PE0534)	*	U04A	75011070	PC BOARD ASSY, PE0534A1, LED
U04A LED (PE0534)		CB06	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04A LED (PE0534)		CB07	76619157	CAPACITOR, ELECTROLYTIC CHIP, 16V 100UF
U04A LED (PE0534)	<u> </u>	DB01	75009054	DIODE, LED, SML-020MLT T86
U04A LED (PE0534)		DB04	75009054	DIODE, LED, SML-020MLT T86
U04A LED (PE0534)	<u> </u>	P522B	23713948	CONNECTOR, S6B-PH-K-S(LF)
U04A LED (PE0534)	<u> </u>	QB01	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)		QB02	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)		QB03	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)	l	QB04	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)	<u> </u>	RB10	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U04A LED (PE0534)	<u> </u>	RB11	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U04A LED (PE0534)	<u> </u>	RB12	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U04A LED (PE0534)	<u> </u>	RB13	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U04A LED (PE0534)	<u> </u>	RB14	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U04A LED (PE0534)	<u> </u>	RB15	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U04A LED (PE0534)	<u> </u>	RB16	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U04A LED (PE0534)	<u> </u>	RB18	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U04B RMT (PE0534)	*	U04B	75011071	PC BOARD ASSY, PE0534A2, RMT
U04B RMT (PE0534)	<u> </u>	CB02	76619157	CAPACITOR, ELECTROLYTIC CHIP, 16V 100UF
U04B RMT (PE0534)	<u> </u>	CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04B RMT (PE0534)		CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04B RMT (PE0534)		CB05	76619157	CAPACITOR, ELECTROLYTIC CHIP, 16V 100UF

Block		Location	Parts No.	Description	AA S M L ‡ ±
U03A AC-SW (PE0533)	*	U03A	75012739	PC BOARD ASSY, PE	E0533B1, AC-SW
U03A AC-SW (PE0533)	⚠	F850	75005842	FUSE, CARTRIDGE !	5.2X20, FSL 250V 6.3A (EM)
U03A AC-SW (PE0533)		F850A	23165433	FUSE HOLDER, 5.2	
U03A AC-SW (PE0533)		F850B	23165433	FUSE HOLDER, 5.2	
U03A AC-SW (PE0533)	⚠	P801B	23757043	CONNECTOR, PLUC	5, B02B-VT-K(LF)(SN)
U03A AC-SW (PE0533)	⚠	P801C	23713702	PLUG, 2P 11.88MM	W VT
U03A AC-SW (PE0533)	⚠	S801	75011067	SWITCH, PSE POWE	ER, KDC-A02-F

U04A LED (PE0534) Block: Search Page: 1 /18 Jump Location: Search ₩ Parts No.:

Block		Location	Parts No.	Description AASML 🛊 🕹
U04A LED (PE0534)	*	U04A	75011070	PC BOARD ASSY, PE0534A1, LED
U04A LED (PE0534)		CB06	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04A LED (PE0534)		CB07	76619157	CAPACITOR, ELECTROLYTIC CHIP, 16V 100UF
U04A LED (PE0534)		DB01	75009054	DIODE, LED, SML-020MLT T86
U04A LED (PE0534)		DB04	75009054	DIODE, LED, SML-020MLT T86
U04A LED (PE0534)		P522B	23713948	CONNECTOR, S6B-PH-K-S(LF)
U04A LED (PE0534)		QB01	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)		QB02	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)		QB03	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)		QB04	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U04A LED (PE0534)		RB10	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U04A LED (PE0534)		RB11	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U04A LED (PE0534)		RB12	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U04A LED (PE0534)		RB13	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U04A LED (PE0534)		RB14	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U04A LED (PE0534)		RB15	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U04A LED (PE0534)		RB16	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U04A LED (PE0534)		RB18	76011102	RESISTOR, CHIP, 1/20W 1K OHM J

 Block :
 U04B RMT (PE0534)

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Block		Location	Parts No.	Description AA S M L 🛊 🛂
U04B RMT (PE0534)	*	U04B	75011071	PC BOARD ASSY, PE0534A2, RMT
U04B RMT (PE0534)		CB02	76619157	CAPACITOR, ELECTROLYTIC CHIP, 16V 100UF
U04B RMT (PE0534)		CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04B RMT (PE0534)		CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04B RMT (PE0534)		CB05	76619157	CAPACITOR, ELECTROLYTIC CHIP, 16V 100UF
U04B RMT (PE0534)		CB211	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04B RMT (PE0534)		CB212	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U04B RMT (PE0534)		DB21	75011069	OPTICAL DEVICE, PHOTO, S10604
U04B RMT (PE0534)		DB22	23362251	DIODE, SDS511(SOD-323)
U04B RMT (PE0534)		DB23	23362251	DIODE, SDS511(SOD-323)
U04B RMT (PE0534)		GB04	23362042	DIODE, ZENER, UDZS6.8B
U04B RMT (PE0534)		KB01	75002236	IC, GP1UE261RKVF
U04B RMT (PE0534)		RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U04B RMT (PE0534)		RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U04B RMT (PE0534)		RB224	76000445	CHIP JUMPER, 1608TYPE

 Block :
 U05AS MAIN (PE0566)

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Block		Location	Parts No.	Description AASML \$ ±
U05AS MAIN (PE0566)	*	U05AS	75012801	PC BOARD ASSY, PE0566C, MAIN
U05AS MAIN (PE0566)		B320	75011088	SCREW, SFS-4S-B1WM
U05AS MAIN (PE0566)		B321	75011088	SCREW, SFS-4S-B1WM
U05AS MAIN (PE0566)		C100	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1000	75009863	CAPACITOR, CERAMIC CHIP (1005), CM05W5R103K16AH
U05AS MAIN (PE0566)		C1001	75009863	CAPACITOR, CERAMIC CHIP (1005), CM05W5R103K16AH
U05AS MAIN (PE0566)		C1002	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1003	75012731	CAPACITOR, CERAMIC CHIP (2012), CM21B475K06AT
U05AS MAIN (PE0566)		C1004	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1005	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1006	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1007	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1008	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1009	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C101	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1010	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1011	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1012	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1013	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1014	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1015	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1016	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1017	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1018	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U05AS MAIN (PE0566)		C1019	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U05AS MAIN (PE0566)		C102	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1020	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1021	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH
U05AS MAIN (PE0566)		C1022	75009866	CAPACITOR, CERAMIC CHIP (1005), CM05W5R102K50AH
U05AS MAIN (PE0566)		C1023	75009867	CAPACITOR, CERAMIC CHIP (1005), CM05B104K10AH

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 U06A KEY (PE0560)

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Block		Location	Parts No.	Description ДA S M L 🛊 🛓
U06A KEY (PE0560)	*	U06A	75011072	PC BOARD ASSY, PE0560A1, KEY
U06A KEY (PE0560)		GB01	23362042	DIODE, ZENER, UDZS6.8B
U06A KEY (PE0560)		GB02	23362042	DIODE, ZENER, UDZS6.8B
U06A KEY (PE0560)		GB03	23362042	DIODE, ZENER, UDZS6.8B
U06A KEY (PE0560)		P523B	23713938	CONNECTOR, B5B-PH-K-S(LF)
U06A KEY (PE0560)		RB71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
U06A KEY (PE0560)		RB72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U06A KEY (PE0560)		RB73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U06A KEY (PE0560)		RB74	76000445	CHIP JUMPER, 1608TYPE
U06A KEY (PE0560)		RB77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U06A KEY (PE0560)		RB78	76000445	CHIP JUMPER, 1608TYPE
U06A KEY (PE0560)		RB79	76000445	CHIP JUMPER, 1608TYPE
U06A KEY (PE0560)		SA01	75007379	SWITCH, TACTILE, KSMC632A
U06A KEY (PE0560)		SA02	75007379	SWITCH, TACTILE, KSMC632A
U06A KEY (PE0560)		SA03	75007379	SWITCH, TACTILE, KSMC632A
U06A KEY (PE0560)		SA04	75007379	SWITCH, TACTILE, KSMC632A
U06A KEY (PE0560)		SA05	75007379	SWITCH, TACTILE, KSMC632A
U06A KEY (PE0560)		SA06	75007379	SWITCH, TACTILE, KSMC632A
U06A KEY (PE0560)		SA07	75007379	SWITCH, TACTILE, KSMC632A



Block		Location	Parts No.	Description AA S M L 🛊 🛓
Miscellaneous	⚠	B001A	75011199	LCD PANEL, LC370WUN-SAB1
Miscellaneous		H001	75010735	TUNER, ENG37E05KF
Miscellaneous		MZ01A	75011515	WIRE, MF0211
Miscellaneous	⚠	P801	23372297	POWER CORD, CEE
Miscellaneous		PP23	23974994	BAND, KESSOKU
Miscellaneous	⚠	U800	75012573	POWER UNIT, SRV2169WW
Miscellaneous		W661	75010928	SPEAKER ASSY, SPK1504BM, 35X160 8-OHM 10W
Miscellaneous		Z809A	23103914	FERRITE CORE, TFE1015AD



Block		Location	Parts No.	Description	AA S M L ‡ ±
Accessory	⚠	Y101E	75012768	OWNERS MANUAL, F	RANCE
Accessory		Y130	75008381	REMOCON HAND UN	IT, CT-90287
Accessory		Y131	75012514	POWER UNIT BATTE	RY, R03UG(JE)SP-2TGC-T
Accessory		Y170	23845800	HOLDER, WIRE, NYL	ON66 D6.8
Accessory		Y186	75009788	CLOTH, CLEAN	

Block:	Cabinet					
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Parts <u>N</u> o. :		Search	49	Н	<b>4</b>	₩.

Block		Location	Parts No.	Description AA S M L 🛊 🕹
Cabinet		A201	75012769	FRONT BEZEL ASSY
Cabinet		A342	75011097	BUTTON ASSY, POWER
Cabinet		A345	23748087	WASHER, 10X4.2XT0.3TPO
Cabinet	⚠	A401	75011151	BACK COVER ASSY
Cabinet		A412	75010345	SCREW, BITTB3X8 SBN
Cabinet		A420	75011099	BRACKET ASSY, STAND
Cabinet		A421	75011194	BASE ASSY, SW, STAND
Cabinet		A422	75010937	TOOL SET, STAND

Block:	Packing					
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Parts <u>N</u> o. :		Search	49	H		H

Block	Location	Parts No.	Description A S M L 🛊 🛓
Packing	A701	75012845	CARTON BOX, TPO
Packing	A702A	75011153	PAD, TOP PACKING
Packing	A702B	75011154	PAD, BOTTOM PACKING

#### **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 "A" 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 CompositionVR : 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.