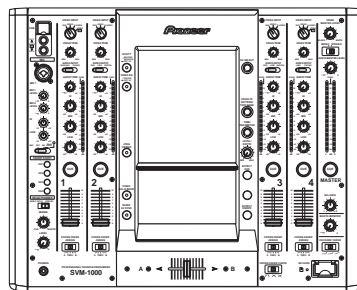


Service Manual



SVM-1000

ORDER NO.
RRV3678

SOUND & VISION MIXER

SVM-1000

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SVM-1000	KUCXJ	AC 120 V	
SVM-1000	WYXJ5	AC 220 V to 240 V	
SVM-1000	TLXJ	AC 110 V to 240 V	



For details, refer to "Important Check Points for good servicing".

SAFETY INFORMATION



This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.



WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65



NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

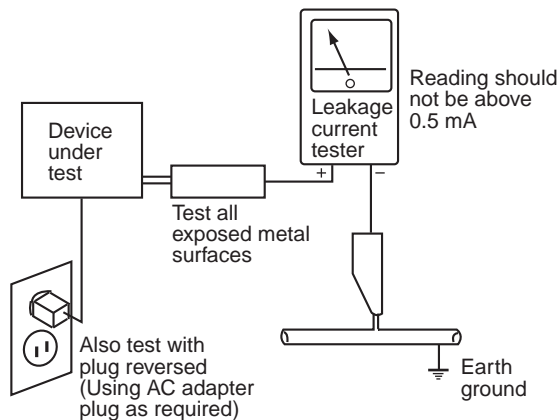
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.




AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.



A

(FOR USA MODEL ONLY)

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

The backlighting lamp of LCD in this equipment contains mercury. Disposal of this material may be regulated due to environmental considerations according to Local, State or Federal Laws. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org

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[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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12. PCB PARTS LIST 230

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 ACCESSORIES

• Accessories

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> • Operating Instructions
(KUCXJ: DRB1421)
(WYXJ5: DRB1422)
(TLXJ: DRB1423) | <ul style="list-style-type: none"> • Power Cord
(KUCXJ : DDG1028)
(WYXJ5 : ADG7062)
(TLXJ : ADG7062) | <ul style="list-style-type: none"> • Warranty Card |
|--|---|---|

2.2 SPECIFICATIONS

1 General

Power source	
KUCXJ model	AC 120 V, 60 Hz
TLXJ model	AC 110 V to 240 V, 50 Hz/60 Hz
WYXJ5 model	AC 220 V to 240 V, 50 Hz/60 Hz
Power consumption	58 W
Operating temperature	+5 °C to +35 °C
Operating humidity	5 % to 85 % (without condensation)
Weight	12.7 kg
Maximum dimensions	500 mm (W) x 202.4 mm (H) x 420.6 mm (D)

2 Audio section

Sampling rate	96 kHz
A/D, D/A converter	24 bits
Frequency response	
DVD/LINE	20 Hz to 20 kHz
MIC	20 Hz to 20 kHz
PHONO	20 Hz to 20 kHz (RIAA)
S/N ratio (at rated output)	
DVD/LINE	105 dB
PHONO	96 dB
MIC	89 dB
Distortion (LINE-MASTER 1)	0.005 %
Standard input level/Input impedance	
PHONO	-52 dBu/47 k Ω
MIC 1	-52 dBu/9 k Ω
DVD/LINE	-12 dBu/22 k Ω
Standard output level/Load impedance/Output impedance	
MASTER 1	+8 dBu/10 k Ω /10 Ω or less
MASTER 2	+2 dBu/10 k Ω /1 k Ω or less
REC OUT	-8 dBu/10 k Ω /1 k Ω or less
BOOTH MONITOR	+8 dBu/600 Ω /600 Ω or less
PHONES	+7.5 dBu/32 Ω /22 Ω or less
Rated output level/Load impedance	
MASTER 1	+26 dBu/10 k Ω
MASTER 2	+20 dBu/10 k Ω
Crosstalk (DVD/LINE)	89 dB
Channel equalizer response	
HI	-26 dB to +6 dB (13 kHz)
MID	-26 dB to +6 dB (1 kHz)
LOW	-26 dB to +6 dB (70 Hz)
Microphone equalizer response	
HI	-12 dB to +12 dB (10 kHz)
LOW	-12 dB to +12 dB (100 Hz)

3 Video Section

Input signal	NTSC/PAL (selectable)
Sampling rate	13.5 MHz, 8 bit, ITU-R BT.656, YCrCb 4:2:2
Input connector (sensitivity/impedance)	
Composite	1 Vp-p/75 Ω
S (Brightness)	1 Vp-p/75 Ω
S (Color)	0.286 Vp-p/75 Ω
Video output connector (Level/Impedance)	
Composite	1 Vp-p/75 Ω
S (Brightness)	1 Vp-p/75 Ω
S (Color)	0.286 Vp-p/75 Ω
Component Y	1 Vp-p/75 Ω
Component Cb/Cr	0.7 Vp-p/75 Ω

4 Input/output connector systems

Audio section

PHONO input connectors	
RCA pin jacks	2
DVD/LINE input connectors	
RCA pin jacks	2
DVD input connectors	
RCA pin jacks	2
LINE input connectors	
RCA pin jacks	2
MIC input connectors	
XLR connector/Phone jack (\varnothing 6.3 mm)	1
Phone jack (\varnothing 6.3 mm)	1
DIGITAL coaxial input connectors	
RCA pin jacks	2
MASTER output connectors	
XLR connectors	1
RCA pin jacks	1
BOOTH output connectors	
Phone jack (\varnothing 6.3 mm)	1
REC output connectors	
RCA pin jacks	1
DIGITAL coaxial output connector	
RCA pin jack	1
PHONES output connector	
Stereo phone jack (\varnothing 6.3 mm)	1

Video Section

DVD input connectors	
Composite input, RCA pin jacks	4
VIDEO input connectors	
Composite input, RCA pin jacks	4
VIDEO EX input connectors	
Composite input, RCA pin jacks	2
S-VIDEO input connectors	
S-Video input, S-connectors	4
MASTER output connectors	
Component output, BNC connector	1
Composite output, BNC connector	1
RCA pin jack	1
S-Video output, S-connector	1
MONITOR output connectors	
Composite output, RCA pin jack	1
S-Video output, S-connector	1

OTHER

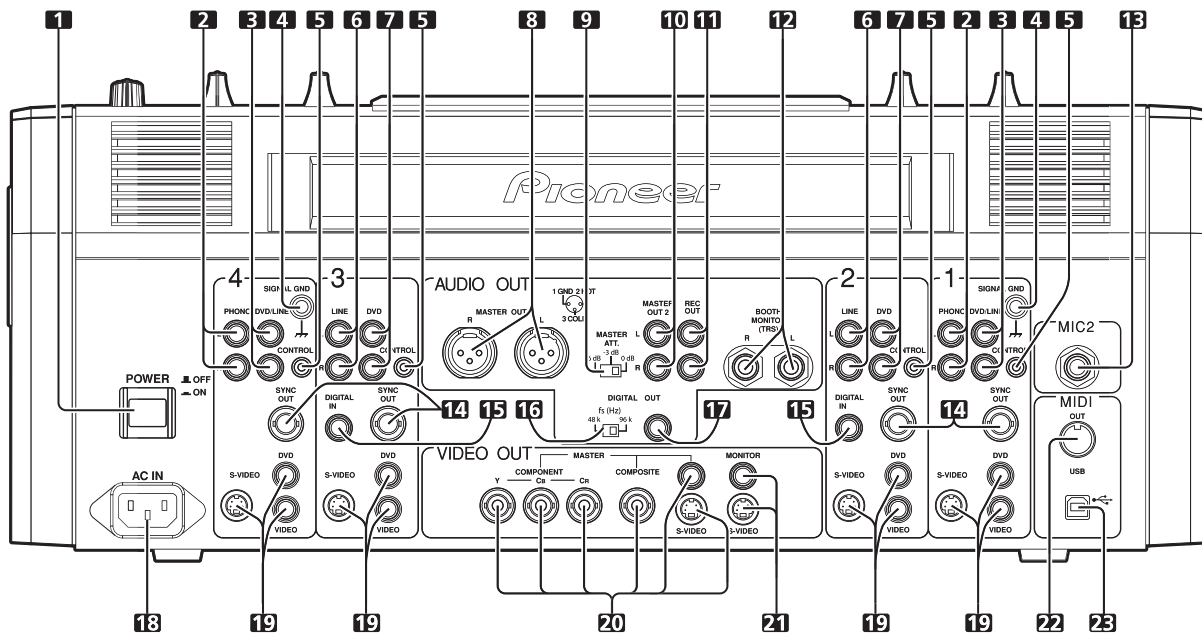
MIDI OUT connector	
5P-DIN	1
USB	1
CONTROL connector	
Mini phone jacks (\varnothing 3.5 mm)	4

5 Accessories

Power cord	1
Warranty card	1
(Except SVM-1000/TLXJ)	
Operating Instructions	1

Specifications and appearance are subject to change without notice.

CONNECTION PANEL



1 POWER switch

2 PHONO input connectors

RCA type phono level (MM cartridge) input connectors. Do not use for inputting line level signals.

3 DVD/LINE input connectors

RCA type line level audio input connectors. Use to connect a DJ/VJ DVD player or DJ CD player or other line level output component.

4 Signal ground terminal (SIGNAL GND)

Connect the ground wire from an analog turntable. This is not a safety ground terminal.

5 CONTROL connector

Connect the Ø 3.5 mm mini phone plug of the control cable from a DJ/VJ DVD player or DJ CD player. When this is done, this mixer's fader controls can be used to perform start and back-cue functions on the connected DJ/VJ DVD player or DJ CD player.

6 LINE input connectors

RCA type line level audio input connectors. Use to connect a cassette deck or other line level output component.

7 DVD input connectors

RCA type line level audio input connectors. Use to connect a DJ/VJ DVD player or DJ CD player or other line level output component.

8 Audio master output 1 connectors (MASTER OUT 1)

XLR type (male) balanced output.

- When using a cord with RCA-type plug, users are recommended to connect the plug directly to the **MASTER OUT 2** connectors without using an XLR/RCA converter plug. When a conversion plug is used, the signal GND may become unstable, in rare cases resulting in the production of noise.

9 Audio master output attenuator selector (MASTER ATT.)

Attenuates the output level of the audio master 1 and audio master 2. Attenuation level can be selected as 0 dB, -3 dB, or -6 dB.

10 Audio master output 2 connectors (MASTER OUT 2)

RCA-type unbalanced output.

11 Recording output connectors (REC OUT)

RCA type output connectors for recording.

12 BOOTH MONITOR output jacks (TRS)

Ø 6.3 mm phone-type booth monitor output jacks.

The sound level output at these connectors can be controlled by the **BOOTH MONITOR** level dial, regardless of the setting of the **MASTER LEVEL** dial. (Since the output is TRS, both balanced and unbalanced outputs are supported.)

13 Microphone 2 input jack (MIC 2)

Connect microphones equipped with phone-type plug.

14 Sync signal output connector (SYNC OUT)

Outputs video sync signal.

When connecting a Pioneer DJ/VJ DVD player (sold separately), the sync signal helps suppress any lag between video and audio signals.

15 Digital input connector (DIGITAL IN)

RCA-type digital coaxial input connector. Connect to the digital coaxial output connector from a DJ/VJ DVD player or DJ CD player.

- If the sampling frequency of the output signal changes, the sound may be interrupted briefly.

16 Sampling frequency selector switch (fs 48 k/96 k)

Use to set the sampling frequency of the digital output to 96 kHz/24-bit format or 48 kHz/24-bit format.

Turn power off before changing this switch position.

17 Digital output connector (DIGITAL OUT)

RCA type digital coaxial output connector. Master audio digital output.

18 Power inlet (AC IN)

Use the furnished power cable to connect to a household AC outlet.

19 Video input connectors (DVD, VIDEO, S-VIDEO)

Composite and S-VIDEO type video input connectors.

20 Video master output connectors (MASTER: COMPONENT, COMPOSITE, S-VIDEO)

Component, composite, and S-VIDEO type video output connectors.

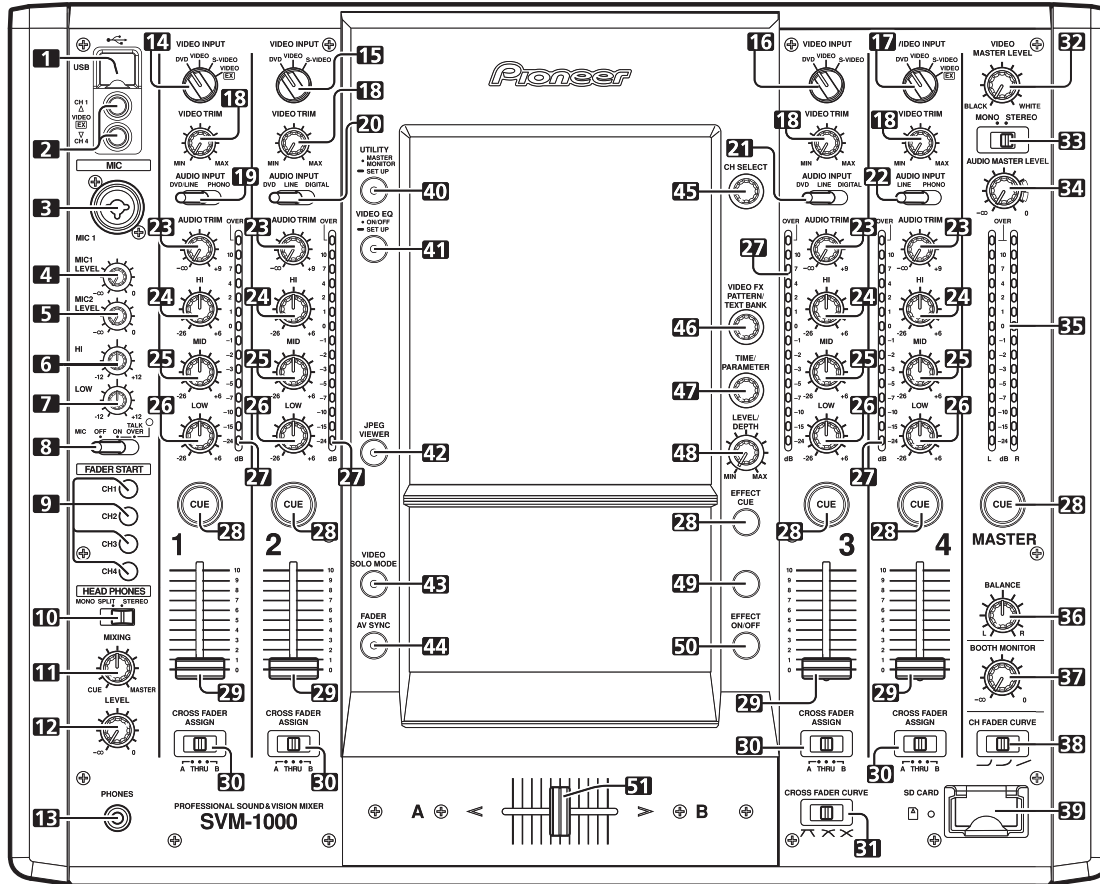
21 Video monitor output connectors (MONITOR, S-VIDEO)

Composite and S-VIDEO type monitor video output connectors.

- A **22 MIDI OUT connector**
DIN type output connector.
Use to connect to other MIDI component.

- 23 MIDI USB output connector**
USB-B type output connector. Use to connect to a computer.

OPERATION PANEL



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- 1 USB connector**
Use to connect a USB memory or keyboard.
- 2 CH1/CH4 video input connectors (VIDEO EX)**
Use to input video from an external source.
- 3 Microphone 1 input jack (MIC 1)**
Connect microphone with XLR-type or phone-type plug.
- 4 Microphone 1 level control dial (MIC 1 LEVEL)**
Use to adjust the volume of microphone 1. (Adjustable range $-\infty$ to 0 dB)
- 5 Microphone 2 level control dial (MIC 2 LEVEL)**
Use to adjust the volume of microphone 2. (Adjustable range $-\infty$ to 0 dB)
- 6 Microphone equalizer high-range adjust dial (HI)**
Use to adjust the treble (high-range) frequencies of microphones 1 and 2. (Adjustable range -12 dB to $+12$ dB)
- 7 Microphone equalizer low-range adjust dial (LOW)**
Use to adjust the bass (low-range) frequencies of microphones 1 and 2. (Adjustable range -12 dB to $+12$ dB)

- 8 Microphone function selector switch (MIC)**
OFF:
No microphone sound is output.
ON:
Microphone sounds are output, and the microphone function indicator lights.
TALK OVER:
Microphone sounds are output, and the microphone function indicator flashes.
When an audio signal of -15 dB or more (default setting) is input to the microphone input, the talkover function operates to reduce all output other than the mike audio by 20 dB (default setting). Values can be changed in the hardware setup
- When not using the TALK OVER function, it is recommended to set the switch to the [OFF] or [ON] position.
- 9 FADER START button/indicator (CH-1 to CH-4)**
Enables the fader start/back cue function for the channel to which a DJ/VJ DVD player or DJ CD player is connected. The button lights when set to ON. When enabled, the operation differs depending on the setting of the **CROSS FADER ASSIGN** switch.
- When the **CROSS FADER ASSIGN** switch is set to the [A] or [B] position, **FADER START** button operation is linked to the operation of the cross fader (and unlinked to channel fader).
 - When the **CROSS FADER ASSIGN** switch is set to the [THRU] position, **FADER START** button operation is linked to the operation of the channel fader (and unlinked to cross fader).

10 HEADPHONES output switch (MONO SPLIT/STEREO)

MONO SPLIT:

The source sound selected with the headphone **CUE** button is output to the L channel, while the master sound is output to the R channel (only when **[MASTER]** is selected with the headphone **CUE** button).

STEREO:

The audio source selected with the headphone **CUE** button is output in stereo.

11 HEADPHONES MIXING dial

When rotated clockwise (toward **[MASTER]**), the master output audio is produced at the headphones (only when **[MASTER]** has been selected with the headphone **CUE** button); when rotated counterclockwise (toward **[CUE]**), the headphones output becomes the mixture of the effect monitor and the channel selected with the headphone **CUE** button.

12 HEADPHONES LEVEL adjust dial

Adjusts the output level of the headphones jack. (Adjustable range: $-\infty$ to 0 dB)

13 Headphones jack (PHONES)

14 Channel 1 VIDEO INPUT selector switch

Set to **[DVD]**, **[VIDEO]**, **[S-VIDEO]**, or **[VIDEO EX]** to match the type of input connected.

15 Channel 2 VIDEO INPUT selector switch

Set to **[DVD]**, **[VIDEO]**, or **[S-VIDEO]** to match the type of input connected.

16 Channel 3 VIDEO INPUT selector switch

Set to **[DVD]**, **[VIDEO]**, or **[S-VIDEO]** to match the type of input connected.

17 Channel 4 VIDEO INPUT selector switch

Set to **[DVD]**, **[VIDEO]**, **[S-VIDEO]**, or **[VIDEO EX]** to match the type of input connected.

18 VIDEO TRIM dial

Use to adjust the level of the video input signal for each channel.

- When rotated counterclockwise, the luminance level is reduced, eventually producing a black screen.
- When rotated clockwise, the luminance level is raised, eventually producing a white screen.
- At the center position, the luminance level is neutral (same level as input).

19 Channel 1 AUDIO INPUT selector switch

DVD/LINE:

Use to select **DVD/LINE** input connectors (line level analog input).

PHONO:

Use to select **PHONO** input connectors (analog turntable input).

20 Channel 2 AUDIO INPUT selector switch

DVD:

Use to select **DVD** input connectors.

LINE:

Use to select **LINE** input connectors (line level analog input).

DIGITAL:

Use to select **DIGITAL** input connector.

21 Channel 3 AUDIO INPUT selector switch

DVD:

Use to select **DVD** input connectors.

LINE:

Use to select **LINE** input connectors (line level analog input).

DIGITAL:

Use to select **DIGITAL** input connector.

22 Channel 4 AUDIO INPUT selector switch

DVD/LINE:

Use to select **DVD/LINE** input connectors (line level analog input).

PHONO:

Use to select **PHONO** input connectors (analog turntable input).

23 AUDIO TRIM dial

Use to adjust the level of the audio input signal for each channel. (Adjustable range: $-\infty$ to +9 dB, mid-position is about 0 dB)

24 Channel equalizer high-range adjust dial (HI)

Use to adjust the treble (high-range) frequency sound for each channel. Video parameters can also be assigned.

(Adjustable range: -26 dB to +6 dB)

25 Channel equalizer mid-range adjust dial (MID)

Use to adjust the mid-range frequency sound for each channel. Video parameters can also be assigned.

(Adjustable range: -26 dB to +6 dB)

26 Channel equalizer low-range adjust dial (LOW)

Use to adjust the bass (low-range) frequency sound for each channel. Video parameters can also be assigned.

(Adjustable range: -26 dB to +6 dB)

27 Channel level indicator

Displays the current level for each channel, with two-second peak hold.

28 Headphone CUE buttons/indicators

These buttons are used to select from **1** to **4**, **MASTER**, or **EFFECT CUE**, to allow you to monitor the desired source through headphones. If multiple buttons are pressed simultaneously, the selected audio sources are mixed. Press the button once more to cancel the selected source. Unselected buttons glow darkly, while selected source buttons light brightly.

29 Channel fader lever

Use to adjust sound volumes and video level for each channel. (Volume adjust range: $-\infty$ to 0 dB) (Video adjust range: 0 % to 100 %)

Output is in accordance with the channel fader curve selected with the **CH FADER CURVE** switch.

When **FADER AV SYNC** function is OFF, only sound volume can be adjusted.

30 CROSS FADER ASSIGN switch

This switch assigns each channel's output to either right or left side of the cross fader (if multiple channels are assigned to the same side, the result will be the combined sum of the channels).

A:

The selected channel is assigned to the cross fader's **[A]** (left) side.

THRU:

The channel fader's output is sent as is to the master output, without being passed through the cross fader.

B:

The selected channel is assigned to the cross fader's **[B]** (right) side.

31 CROSS FADER CURVE switch

This switch allows the user to select from three types of cross fader curve response.

Sound volume changes as follows:

- At the left setting, the curve produces a rapid signal rise. (As soon as the cross fader lever leaves the **[A]** side, the **[B]** channel sound is produced.)
- At the right setting, the curve operates to produce an even, neutral rise throughout the cross fader's movement.
- At the middle setting, an intermediate curve is produced, midway between the two curves noted above.

The video level is as noted above only when the video cross fader's video mix effect is set to **[FADE]**.

32 Video master output level dial (VIDEO MASTER LEVEL)

Adjusts the video master output luminance level.

33 Master output MONO/STEREO selector switch

When set to the **[MONO]** position, audio master output is produced in L+R monaural.

34 Audio master output level dial (AUDIO MASTER LEVEL)

Use to adjust the master output level. (Adjustable range: $-\infty$ to 0 dB)

The master output is the sum combination of the sound from channels set to **[THRU]** with the **CROSS FADER ASSIGN** switch; the signal passed through the cross fader; and the signals from microphone 1 and microphone 2.

A

35 Master level indicator (MASTER L, R)

These segment indicators display the audio output level from L and R channels. The indicators have a two-second peak hold.

36 Master balance dial (BALANCE)

Use to adjust the L/R channel balance for audio master output, booth monitor output, recording output, and digital output.

37 BOOTH MONITOR level control dial

This dial is used to adjust the booth monitor output volume. The volume can be adjusted independently of the master output level. (Adjustable range: $-\infty$ to 0 dB)

38 Channel fader curve switch (CH FADER CURVE)

This switch allows the user to select from three types of channel fader curve response.

The sound volume and video level changes as follows:

This setting is applied equally to channels 1 to 4.

- At the left setting, the curve operates to produce a rapid rise as the channel fader approaches its distant position.
- At the right setting, the curve operates to produce an even, neutral rise throughout the channel fader's movement.
- At the middle setting, an intermediate curve is produced, midway between the two curves noted above.

39 SD CARD slot

Insert an SD card.

40 UTILITY button (MASTER MONITOR, SET UP)

Switches between display / no display of the master monitor on the LCD. When the master monitor is set to display, the indicator lights. When the button is held depressed, the indicator changes to flashing, and the LCD screen changes to show the utility setup menu.

41 VIDEO EQ button (ON/OFF, SET UP)

Switches the video equalizer ON/OFF. The indicator lights when the video equalizer is ON. When the button is held depressed, the indicator flashes, and the LCD display changes to show the equalizer setup menu.

42 JPEG VIEWER button

Use to set the JPEG viewer mode. The indicator lights when in the JPEG viewer mode.

D

43 VIDEO SOLO MODE button

Use to switch the video solo mode ON/OFF. When the video solo mode is ON, the indicator will flash.

44 Fader AV synchro button (FADER AV SYNC)

This button determines whether sound and video are controlled together, or independently. When set to ON, the indicator lights, and the channel fader and cross fader operations change both sound and video simultaneously. When set to OFF, the channel fader and cross fader levers control sound only, while video is controlled by the touch panel.

45 Effect channel selector dial (CH SELECT)

Use to select the channel to which effects are applied. When [MIC] is selected, effects are applied to both microphone 1 and microphone 2.

E

46 VIDEO FX PATTERN/TEXT BANK dial

Use to select video effects, video effect patterns and text banks.

47 Effect parameter 1 dial (TIME/PARAMETER)

Adjusts parameter for selected effect.

- If this dial is rotated while depressing the **TAP** button, direct BPM can be set manually.

48 Effect parameter 2 dial (LEVEL/DEPTH)

Adjusts quantitative parameters for selected effect.

49 TAP button

The BPM is calculated from the intervals at which the **TAP** button is struck.

F

50 Effect button/indicator (EFFECT ON/OFF)

Turns selected effect ON/OFF.

When power is turned ON, the button lights (defaults to effect OFF). When effects are enabled (ON), the button flashes.

51 Cross fader lever (A/B)

This adjusts sound and video levels assigned to sides [A] and [B] in accordance with the **CROSS FADER ASSIGN** switches. When FADER AV SYNC is OFF, the control adjusts the sound only.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

To ensure the quality of the product after repair, check the recommended items shown below:

No.	Procedures	Item to be checked
1	Check if all the symptoms pointed out by the customer have been addressed.	The symptoms in question must not be reproduced. Audio and operations must be normal.
2	Check the analog audio inputs. (Make connections for analog audio signals with a DVD player.)	Check the output of Audio Master Out connector 1 from all input connectors. Check the outputs of the all output connectors from the CH1 input connector. Audio for each channel and operations must be normal.
3	Check the digital audio inputs. (Make connections for digital audio signals with a DVD player.)	Input digital signals to CH2 and CH3 and check if the output signals from the digital output connectors are normal. Audio for each channel and operations must be normal.
4	Check the video outputs. (Make connections with a DVD player.)	Check the output of the Video Master Out connectors from all input connectors. Check the outputs of the all output connectors from the CH1 input connector. Video and operations must be normal.
5	Check the audio from headphone output.	Audio must be normal, without noise.
6	Check the buttons.	Operate the buttons of the main unit, and check it operate normally.
7	Check the touch panel.	Calibration must be terminated.
8	Check the System Setting.	The video system must be appropriately set for the destination.
9	Check the contents of utility setup.	The content of utility setup must be the same as before the repair.
10	Check the exterior section.	Check for any scratches or dirt that have been made or attached on the exterior section after receiving the product for repair.

See the table below for the items to be checked regarding video and audio:

Item to be checked regarding video		Item to be checked regarding audio	
Block noise		Distortion	
Horizontal noise		Noise	
Dot noise		Volume too low	
Disturbed image (video jumpiness)		Volume too high	
Too dark		Volume fluctuating	
Too bright		Sound interrupted	
Mottled color			

3.2 PCB LOCATION

Main Section

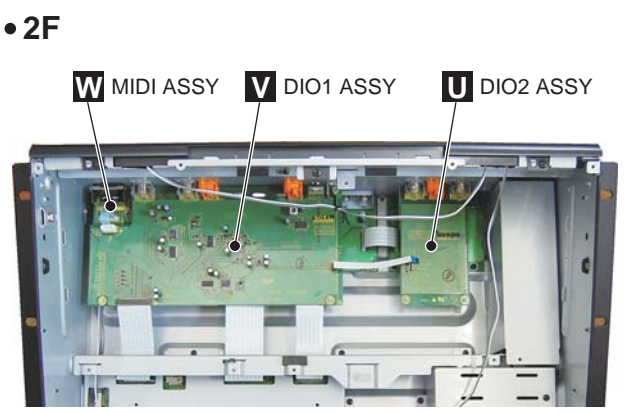
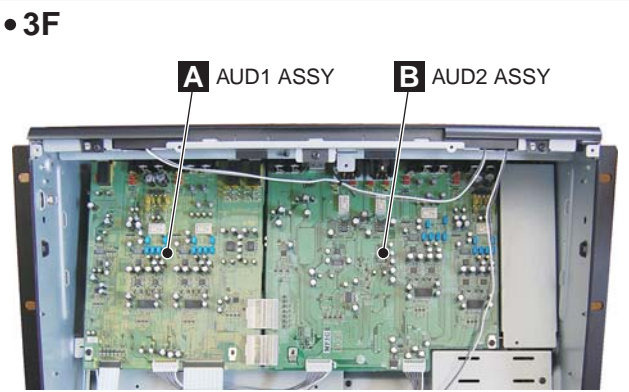
A



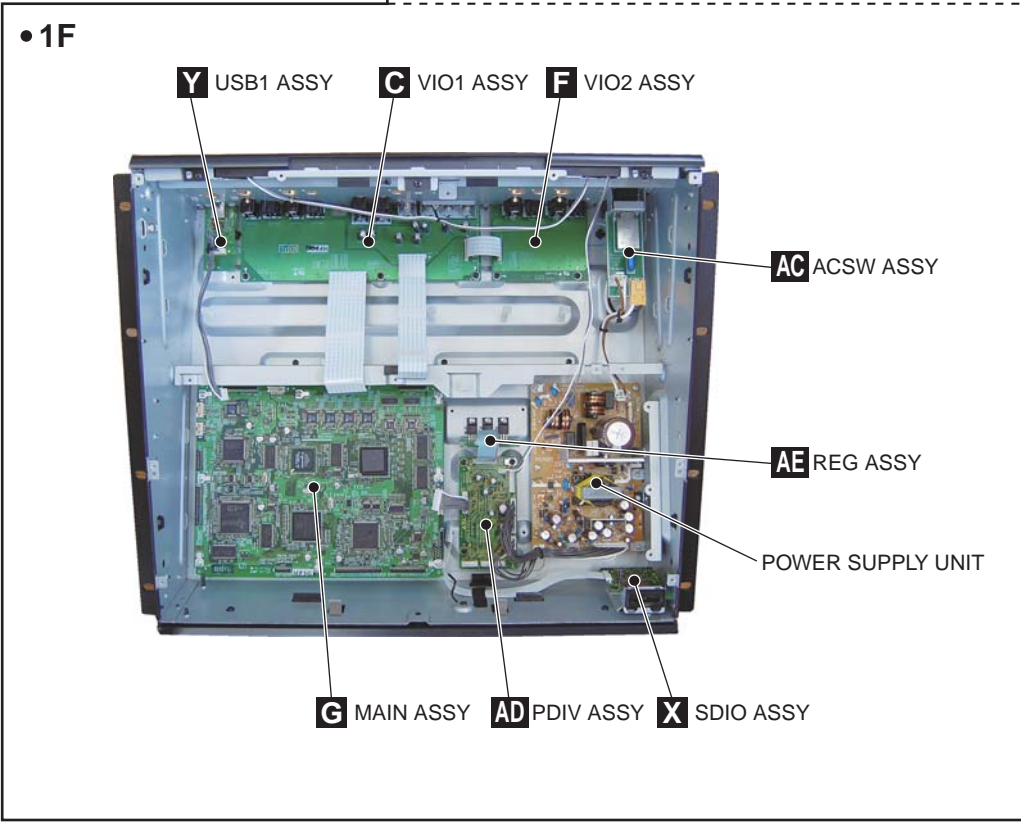
B



C



D

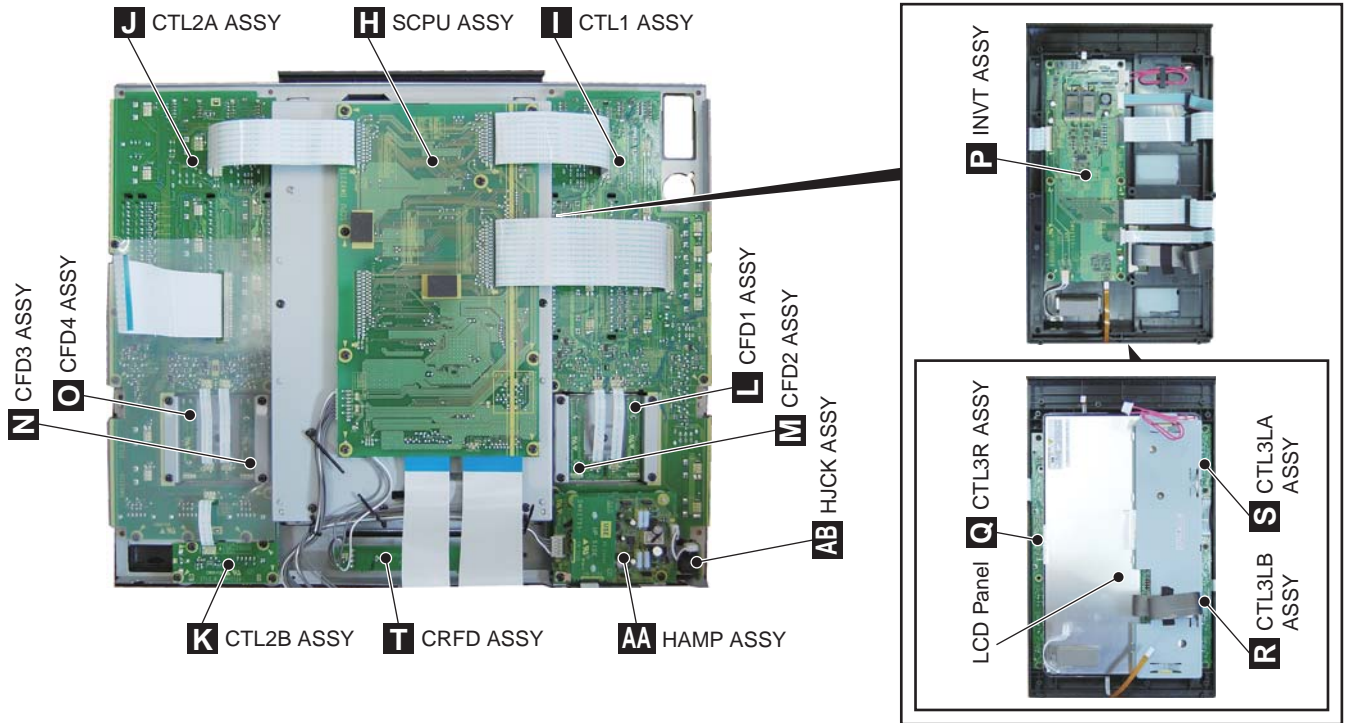


E

F

Operation Panel Section

● Bottom view

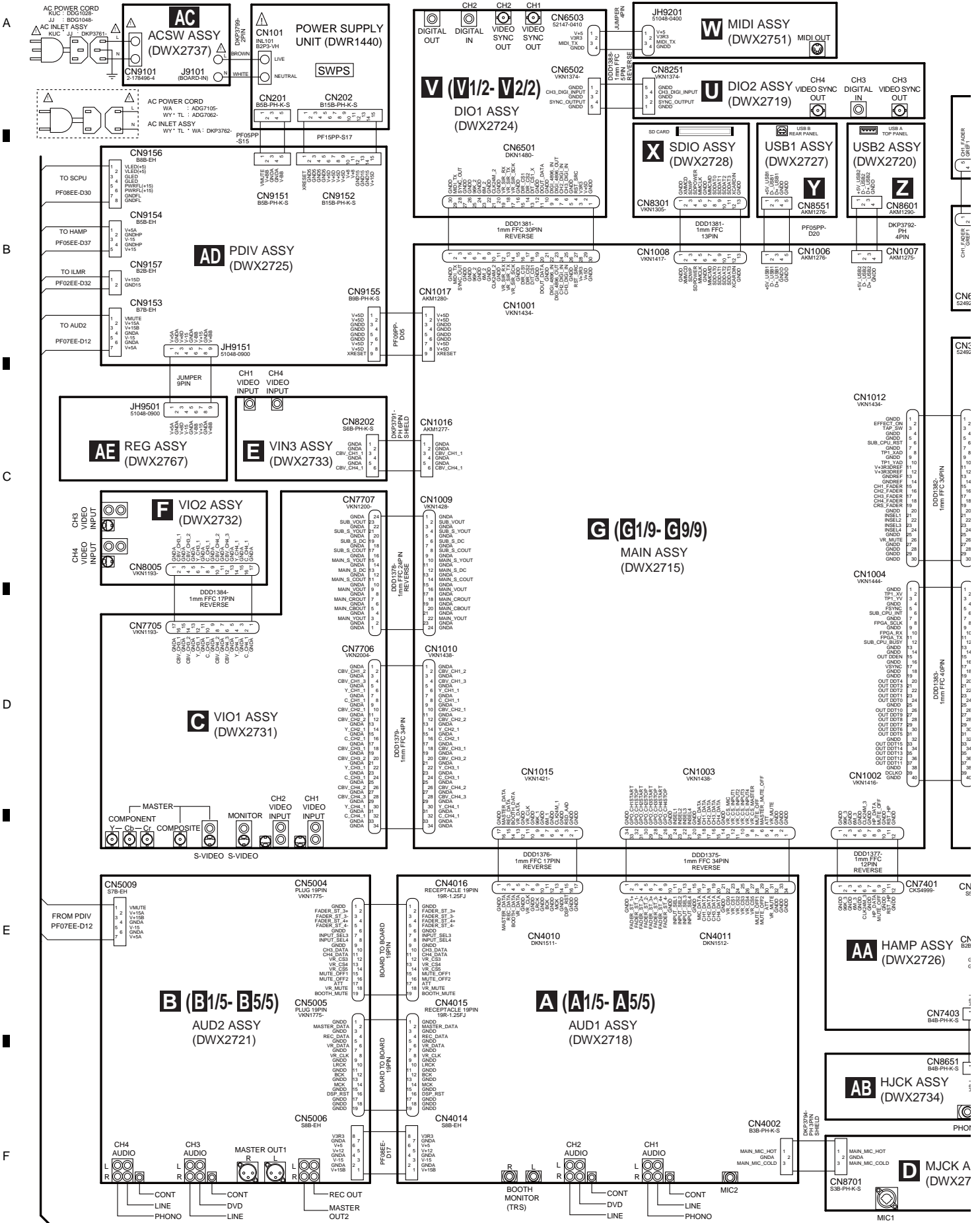


NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
 ● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

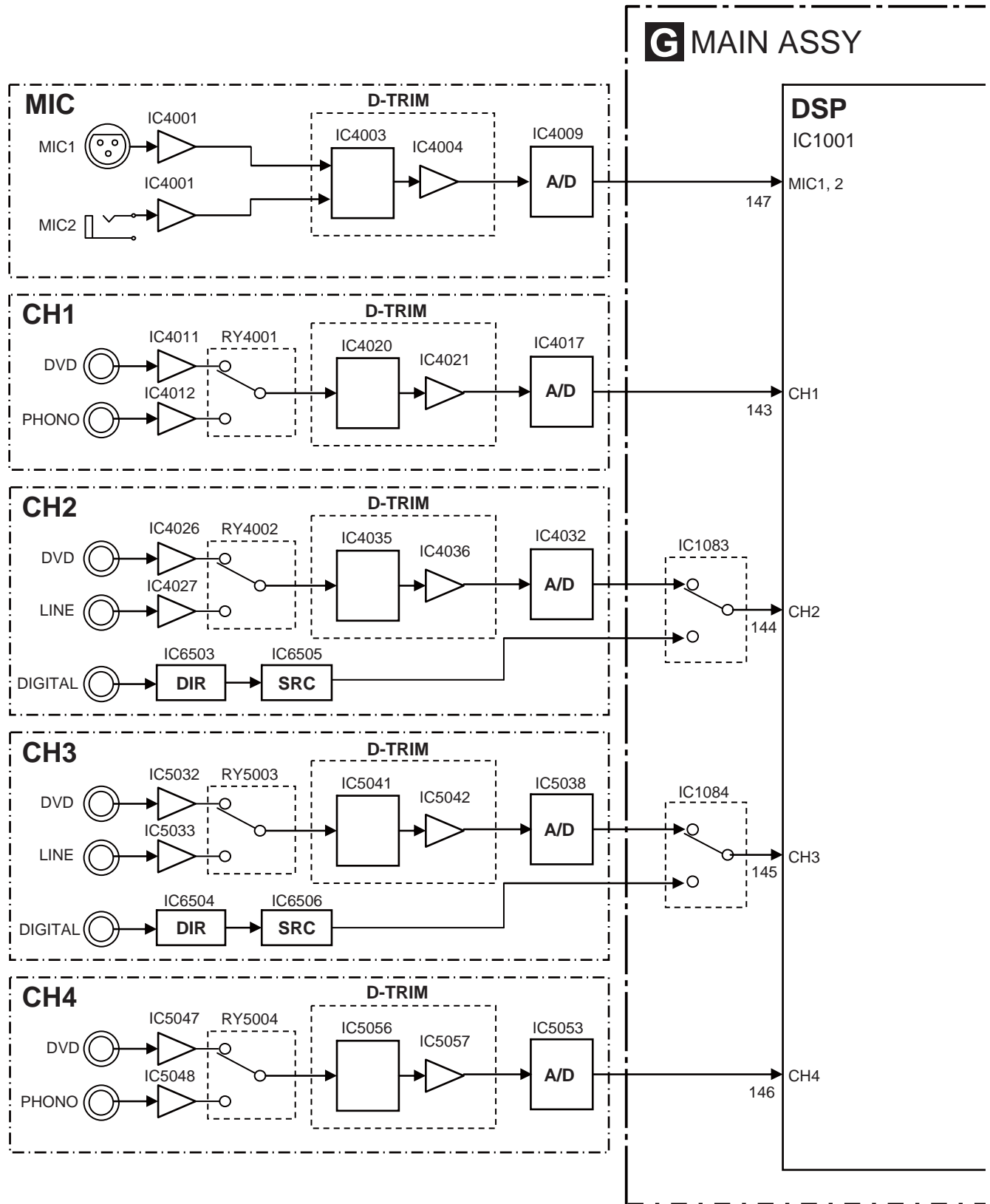
Mark No.	Description	Part No.	Mark No.	Description	Part No.
LIST OF ASSEMBLIES					
	1..MAIN ASSY	DWX2715	NSP	1..CTVI ASSY	DWM2306
				2..CTL1 ASSY	DWX2729
NSP	1..SCIV ASSY	DWM2302		2..CTL3R ASSY	DWX2730
	2..SCPU ASSY	DWX2706		2..VIO1 ASSY	DWX2731
	2..INVT ASSY	DWX2717		2..VIO2 ASSY	DWX2732
NSP	1..AUDI ASSY	DWM2303		2..VIN3 ASSY	DWX2733
	2..AUD1 ASSY	DWX2718		2..HJCK ASSY	DWX2734
	2..DIO2 ASSY	DWX2719	NSP	1..CTFD ASSY	DWM2307
	2..USB1 ASSY	DWX2727		2..CTL2A ASSY	DWX2735
NSP	1..AUIL ASSY	DWM2304		2..CTL2B ASSY	DWX2736
	2..AUD2 ASSY	DWX2721		2..ACSW ASSY	DWX2737
	2..ILMR ASSY	DWX2722		2..MJCK ASSY	DWX2738
	2..ILML ASSY	DWX2723		2..CRFD ASSY	DWX2739
NSP	1..DIHP ASSY	DWM2305		2..CFD1 ASSY	DWX2740
	2..USB2 ASSY	DWX2720		2..CFD2 ASSY	DWX2741
	2..DIO1 ASSY	DWX2724		2..CFD3 ASSY	DWX2742
	2..PDIV ASSY	DWX2725		2..CFD4 ASSY	DWX2743
	2..HAMP ASSY	DWX2726		2..CTL3LA ASSY	DWX2744
	2..SDIO ASSY	DWX2728		2..CTL3LB ASSY	DWX2745
	2..MIDI ASSY	DWX2751	⚠	1..POWER SUPPLY UNIT	DWR1440
	2..REG ASSY	DWX2767	⚠	1..LCD Panel	CWX3405
	2..COVER PCB	DWX2793			

4. BLOCK DIAGRAM

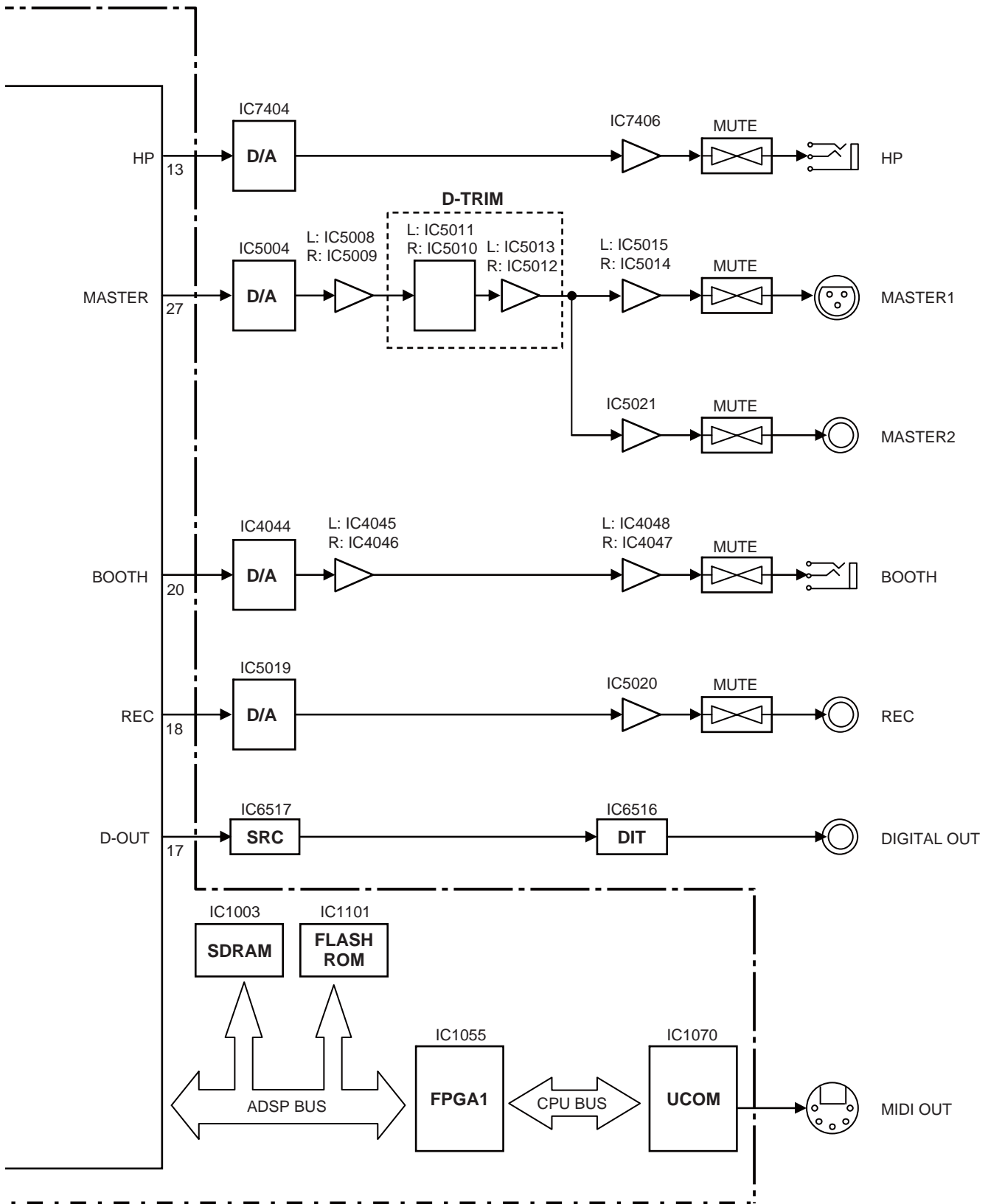
4.1 OVERALL WIRING DIAGRAM



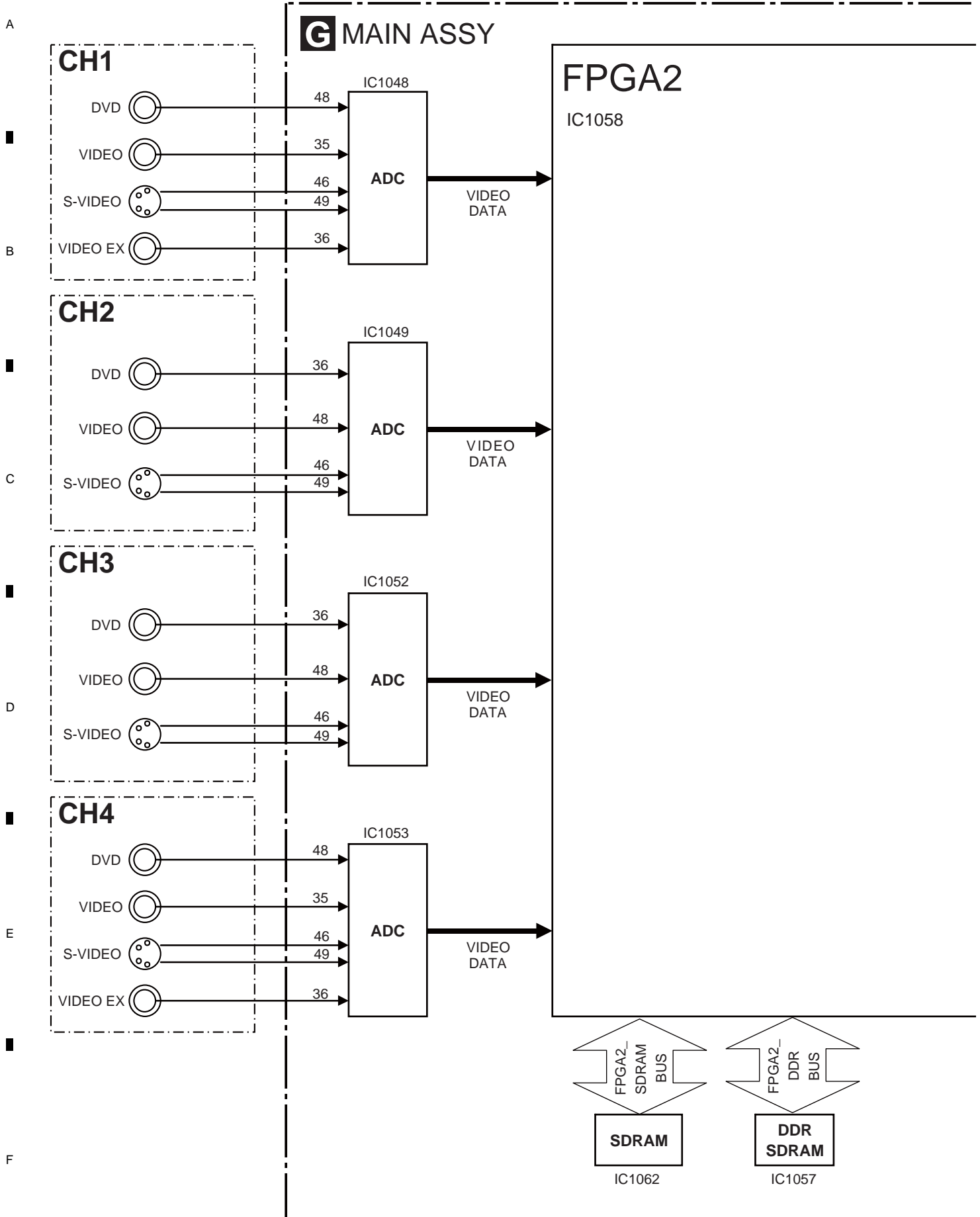
4.2 AUDIO BLOCK DIAGRAM

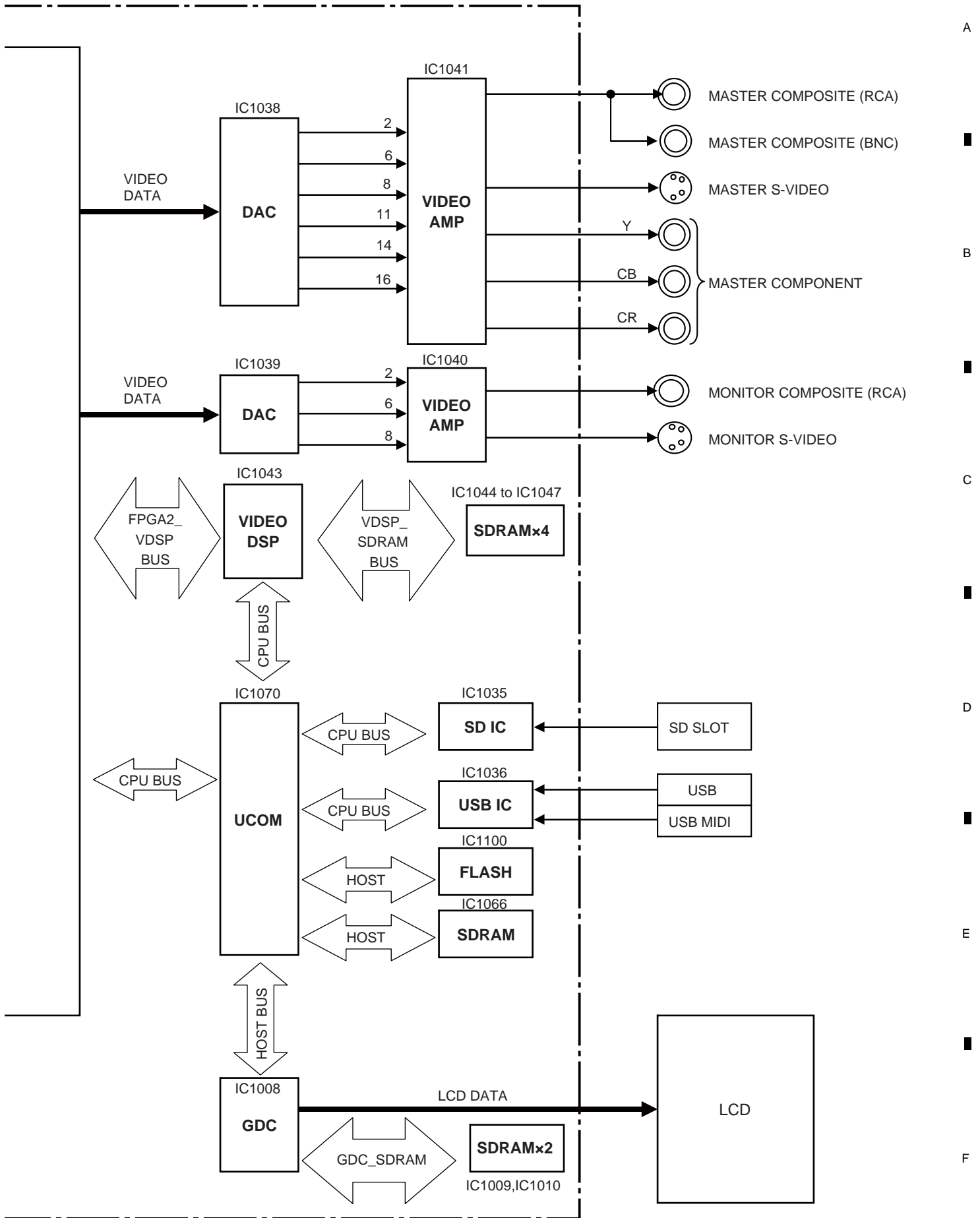


A
B
C
D
E
F



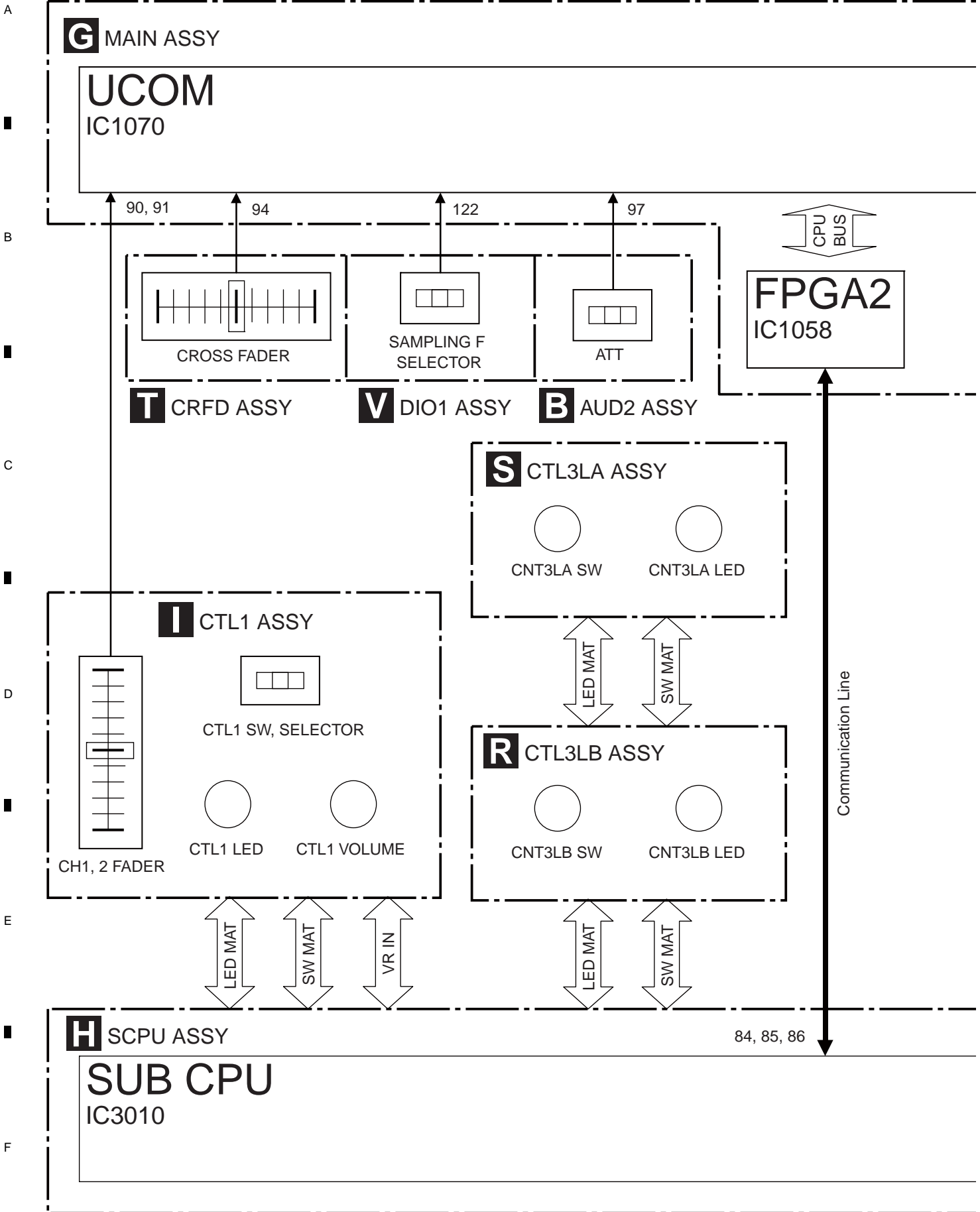
4.3 VIDEO BLOCK DIAGRAM



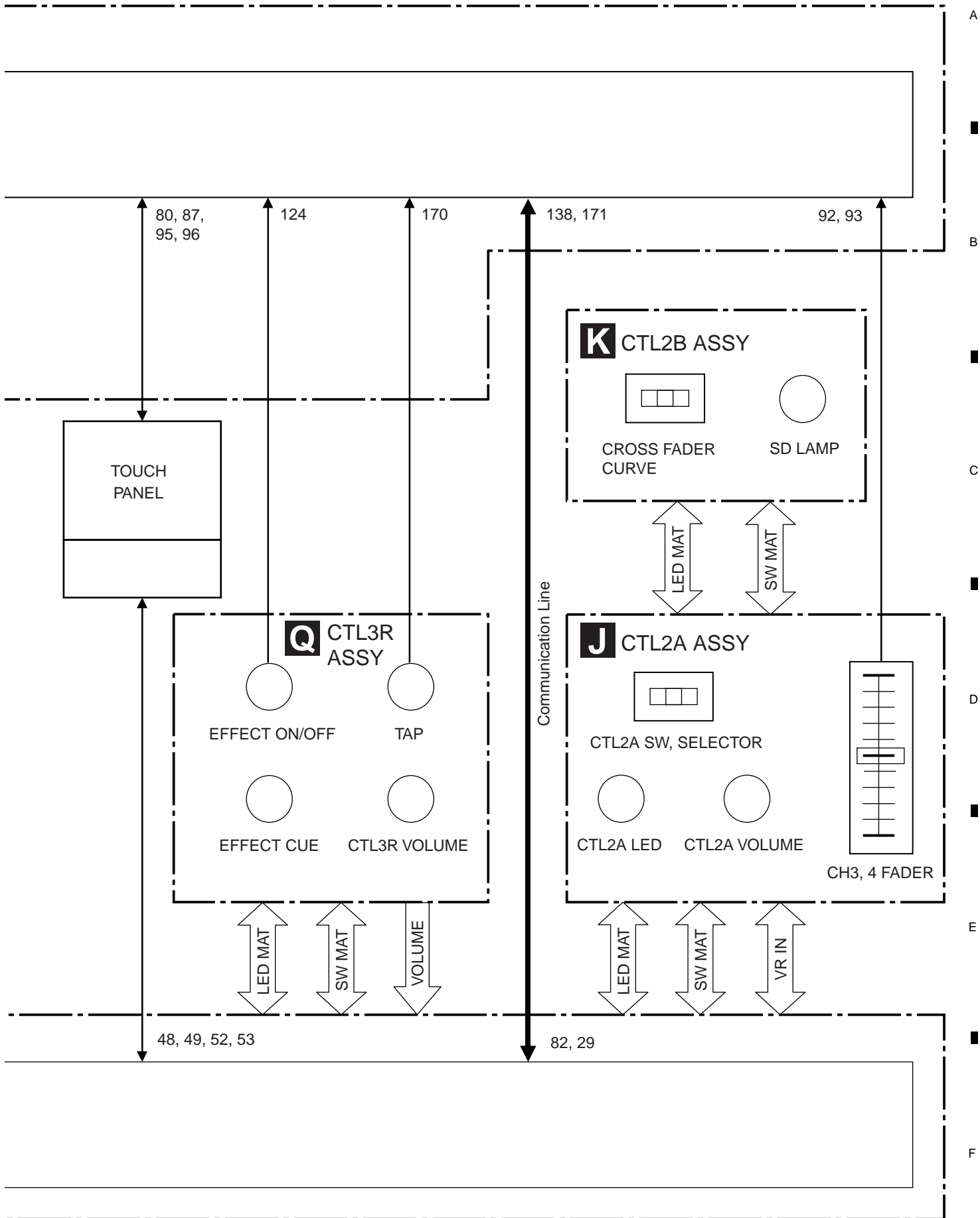


4.4 FUNCTION BLOCK DIAGRAM

1 2 3 4



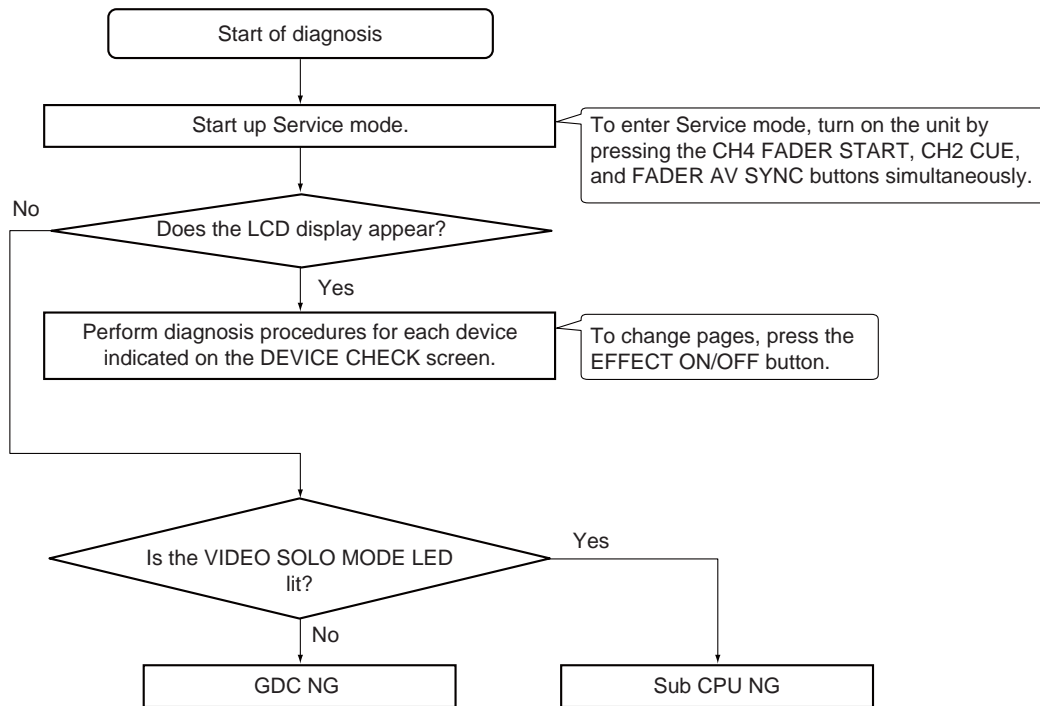
1 2 3 4



5. DIAGNOSIS

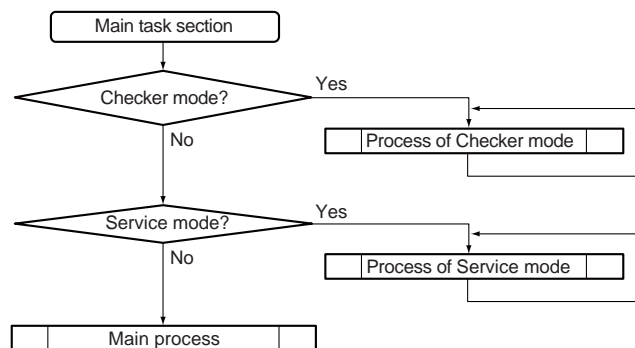
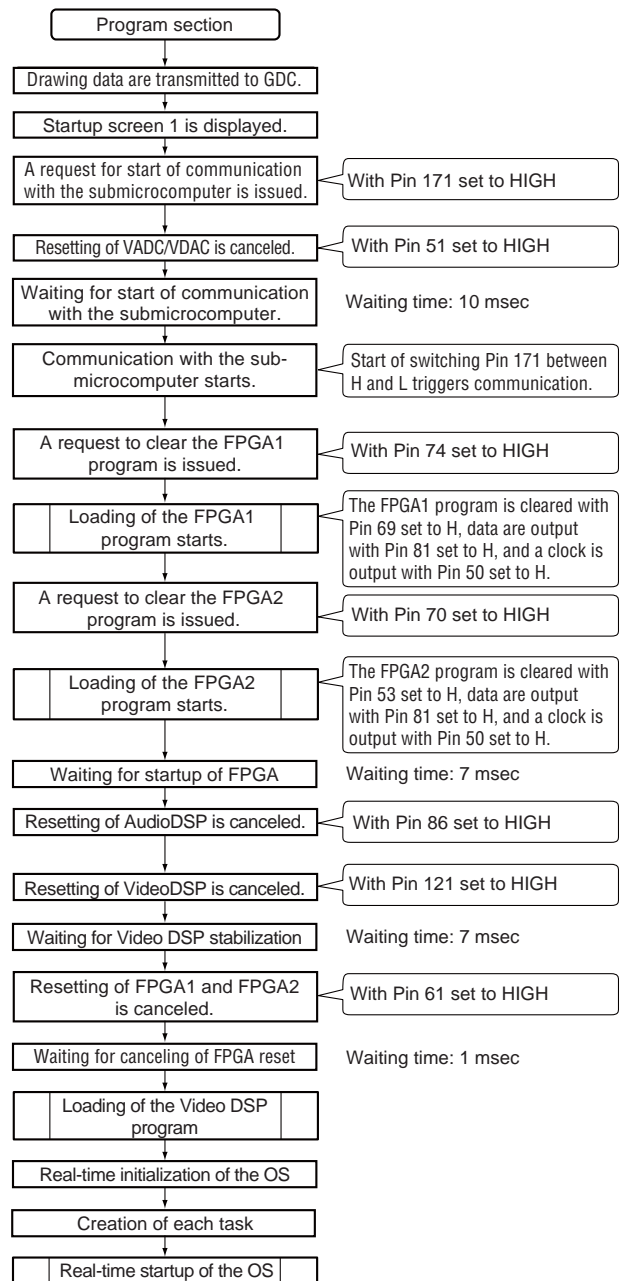
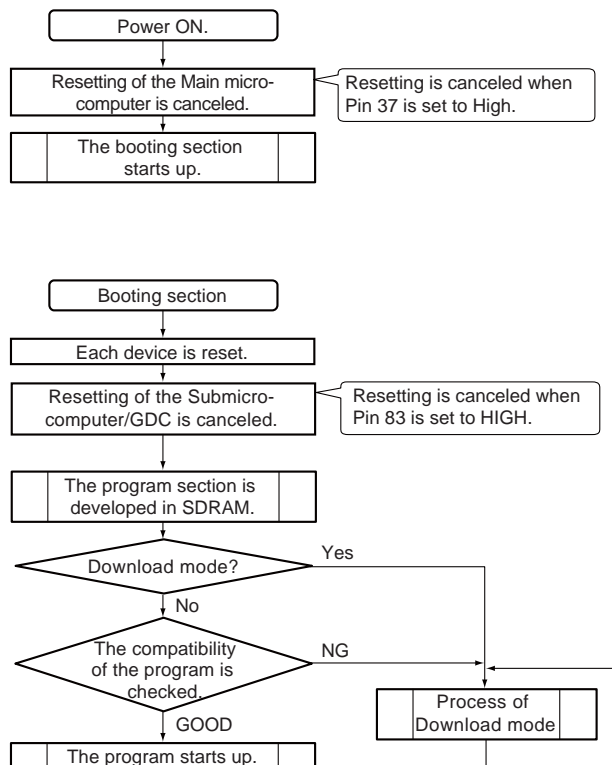
5.1 DIAGNOSIS FLOW

● Diagnosis Flowchart

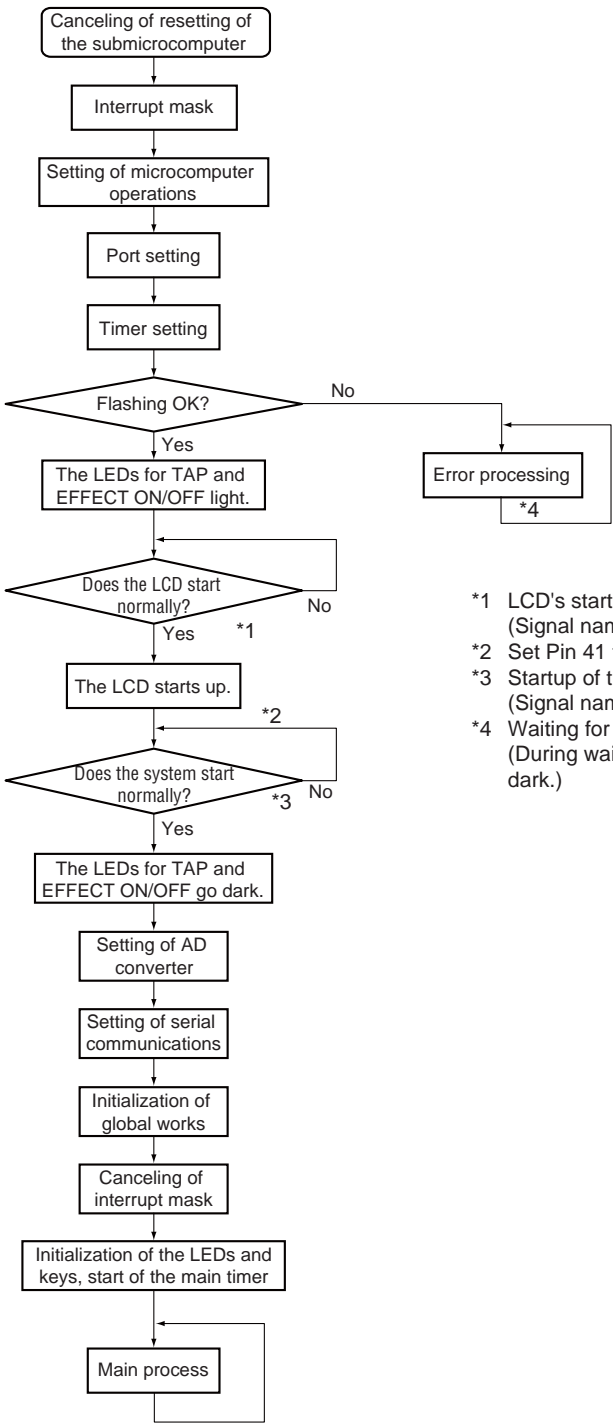


5.2 POWER ON SEQUENCE

● Main Microcomputer



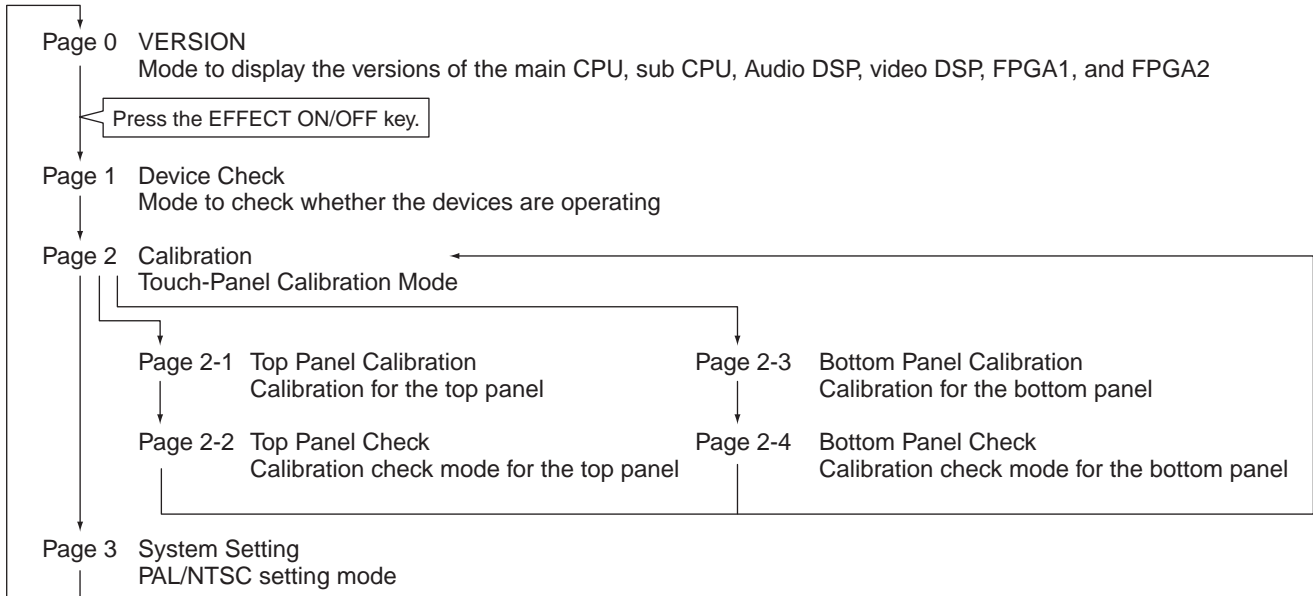
● AV mixer submicrocomputer



- *1 LCD's startup is OK with Pin 29 set to H. (Signal name: SUB_CPU_BUSY)
- *2 Set Pin 41 to H. (Signal name: LCD_SW)
- *3 Startup of the system is OK with Pin 29 set to L. (Signal name: SUB_CPU_BUSY)
- *4 Waiting for the command for start of downloading from the main microcomputer (During waiting, the FADER START CH1 to CH4 LEDs cyclically light then go dark.)

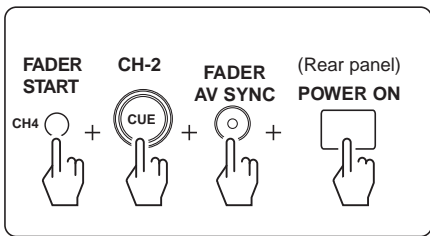
6. SERVICE MODE

6.1 LIST OF PAGES IN SERVICE MODE

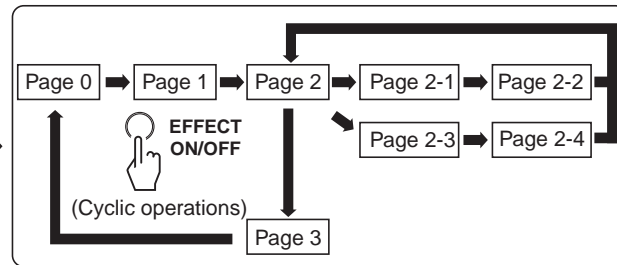


6.2 SERVICE MODE

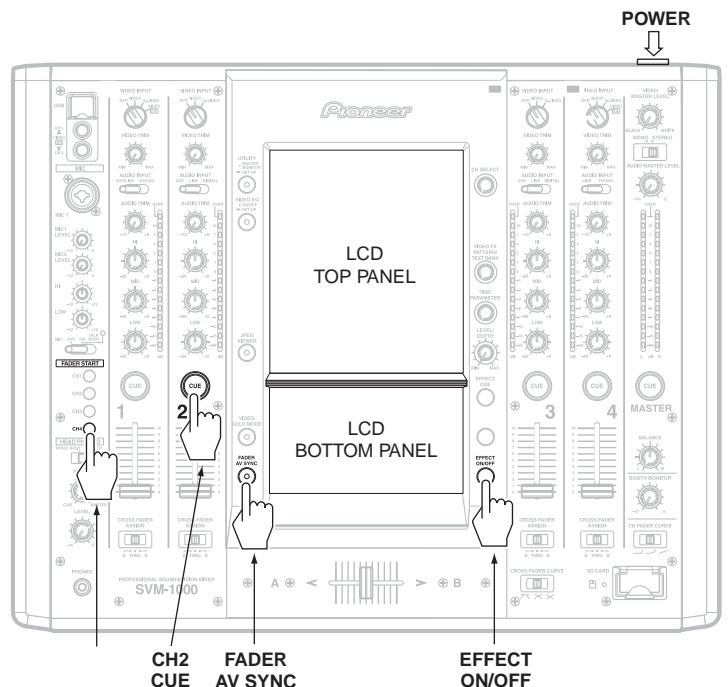
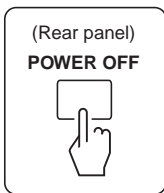
Service Mode : ON



Service Mode
(Page 0 is displayed on the LCD display.)



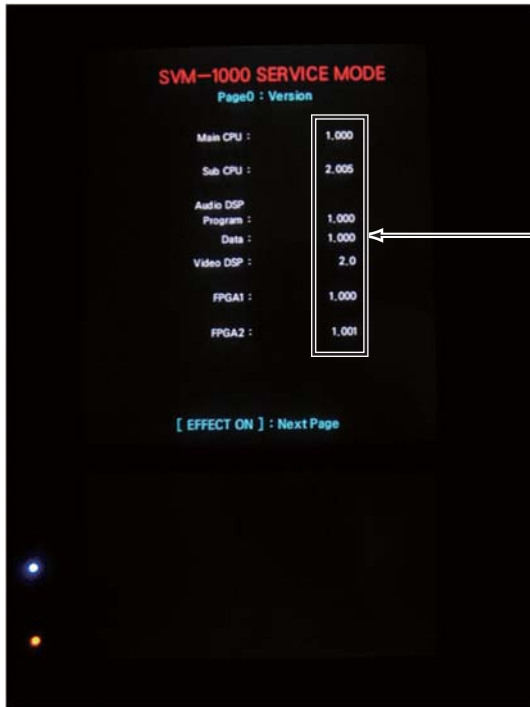
Service Mode : CANCEL



6.3 SERVICE MODE IDENTIFICATION

Page0 : VERSION

Mode to display the versions of the main CPU, sub CPU, Audio DSP, video DSP, FPGA1, and FPGA2



The versions of the respective devices are displayed. The version of the main CPU is also used as the product version.

Page2 : Calibration

Touch-Panel Calibration Mode



TOP PANEL

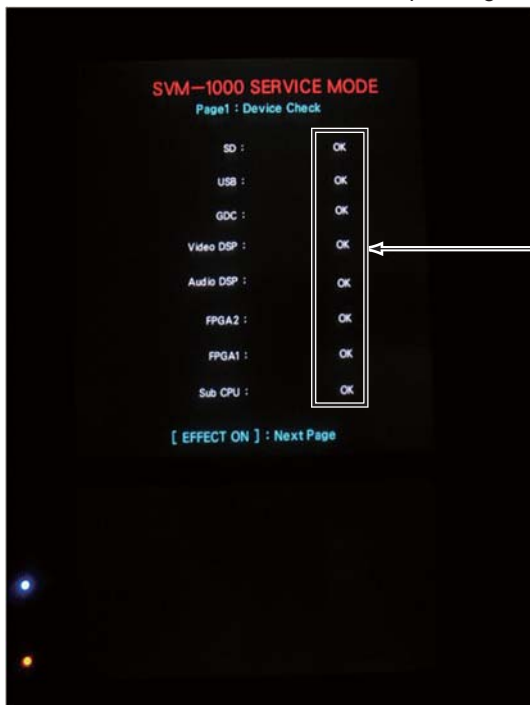
Perform calibration for the top panel (page 2-1).

BOTTOM PANEL

Perform calibration for the bottom panel (page 2-3).

Page1 : Device Check

Mode to check whether the devices are operating.



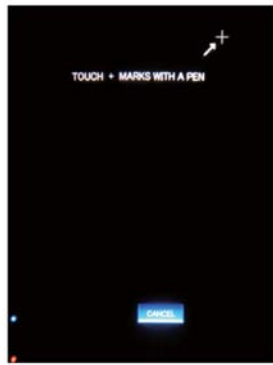
Any defective blocks of the product can be detected in this mode. If the corresponding device has been activated normally, "OK" is displayed. For a device detected to be abnormal, "NG" is displayed.

Page2-1 : Top Panel Calibration

Calibration for the top panel



Perform calibration on point 1 and the subsequent 9 points on the touch panel. A + symbol is displayed at each point in sequence. Touch the center of the + symbol with a pointed tool, such as a stylus pen. When you finish touching all the points, the display changes to Page 2-2.



A **Page2-2 : Top Panel Check**
 Calibration check mode for the top panel



Check the result of the calibration.
 Touch the center of ⊕ with a pointed tool, such as a stylus pen.
 When the calibration has finished successfully, the color of ⊕ changes from blue to white.

SAVE: To store the calibration settings of the top panel.

CANCEL: To cancel the calibration settings of the top panel.

B

C

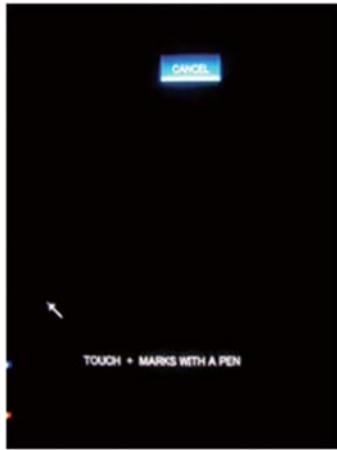
D

E

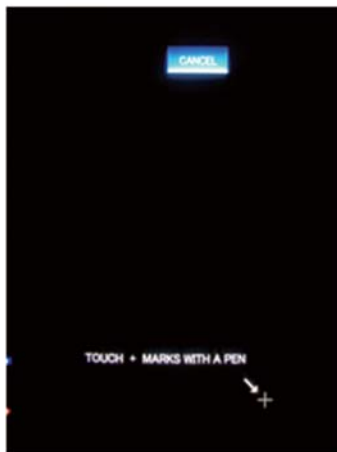
F

Page2-3 : Bottom Panel Calibration

Calibration for the bottom panel



Perform calibration at point 1 and the subsequent 6 points on the touch panel. A + symbol is displayed on each point in sequence. Touch the center of the + symbol with a pointed tool, such as a stylus pen. When you finish touching all the points, the display changes to Page 2-4.



A Page2-4 : Bottom Panel Check

Calibration check mode for the bottom panel



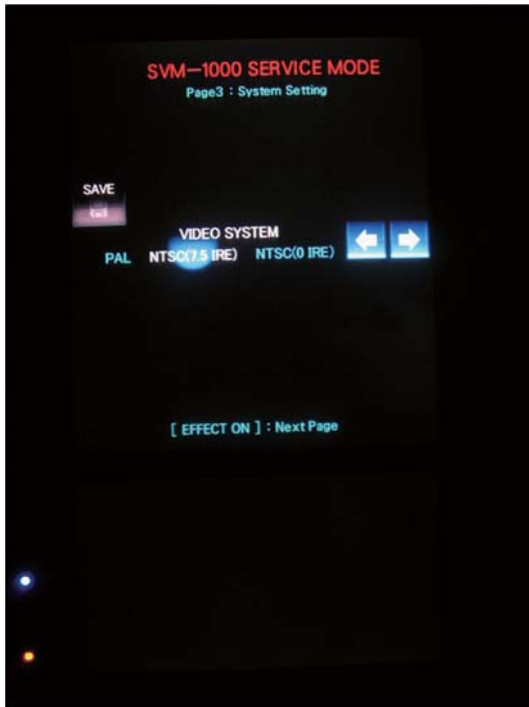
Check the result of the calibration.
 Touch the center of [] with a pointed tool, such as a stylus pen.
 When the calibration has finished successfully, the color of [] changes from blue to white.

SAVE: To store the calibration settings of the bottom panel.

CANCEL: To cancel the calibration settings of the bottom panel.

D Page3 : System Setting

PAL/NTSC setting mode



Perform the factory presetting of the video system.
 Set it to the corresponding system for the destination area.

Move the cursor with the ← (left) or → (right) key to the desired setting then press the SAVE button.

PAL
 To set the video system to PAL.

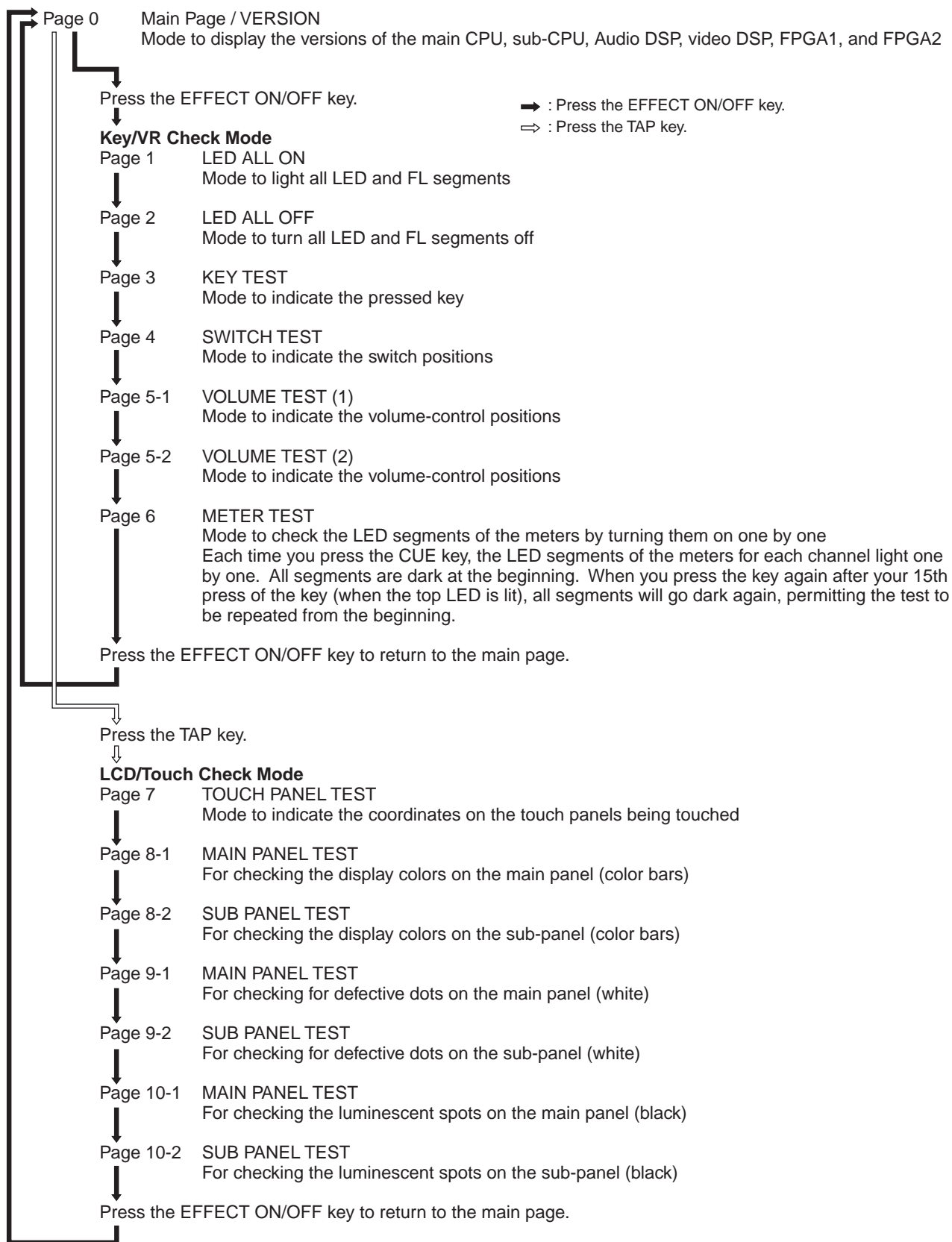
NTSC (7.5IRE)
 To set the video system to NTSC (7.5IRE).

NTSC (0IRE)
 To set the video system to NTSC (0IRE).

The settings for each destination are shown below:

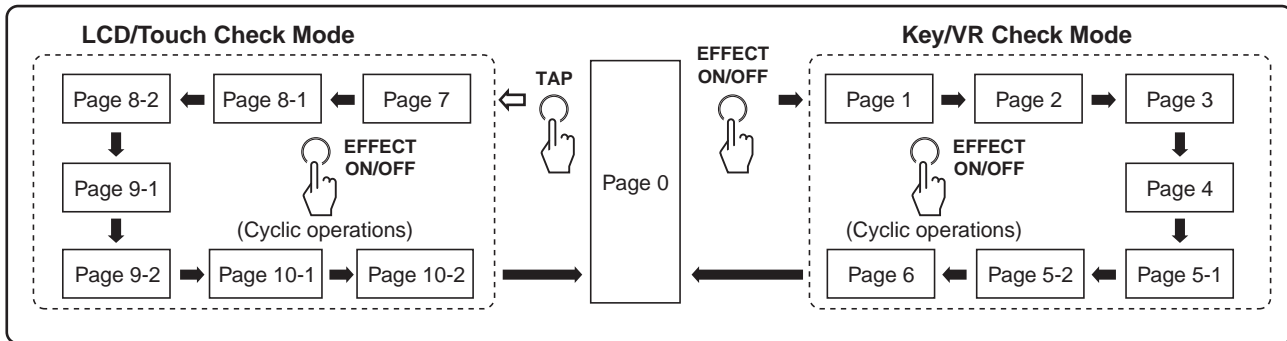
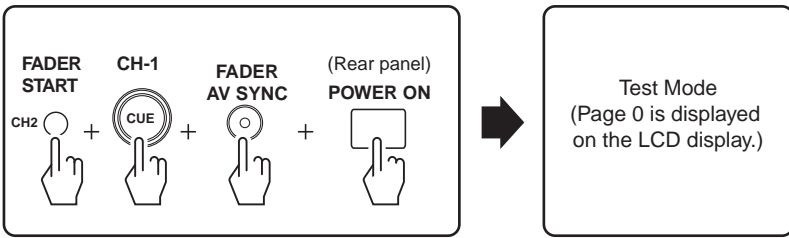
Destination	Video Format
North America	/KUCXJ NTSC (7.5IRE)
Europe	/WYXJ5 PAL
Japan	/JJXJ NTSC (0IRE)
China	/WAXJ5 PAL
General	/TLXJ NTSC (0IRE)

6.4 LIST OF PAGES IN TEST MODO

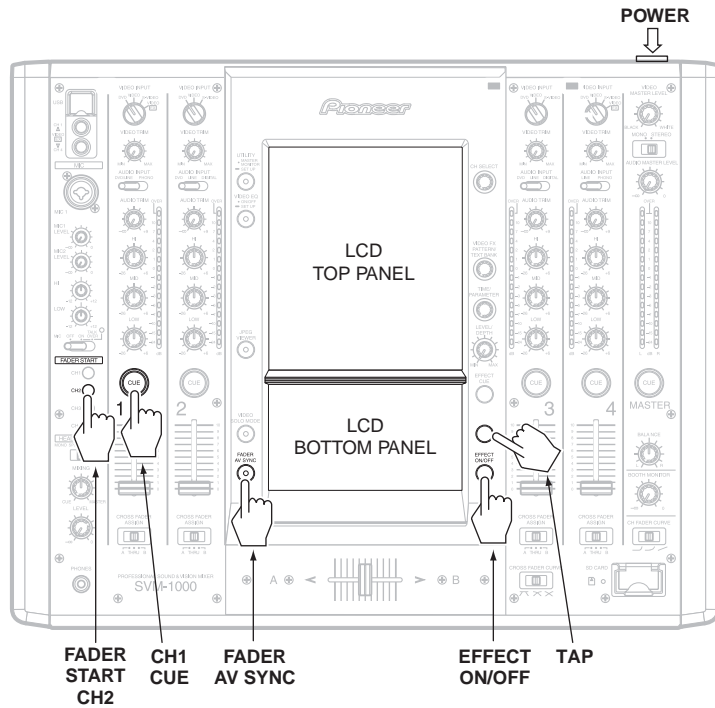
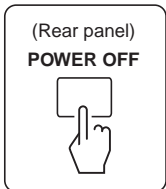


6.5 TEST MODE

Test Mode : ON



Test mode : CANCEL

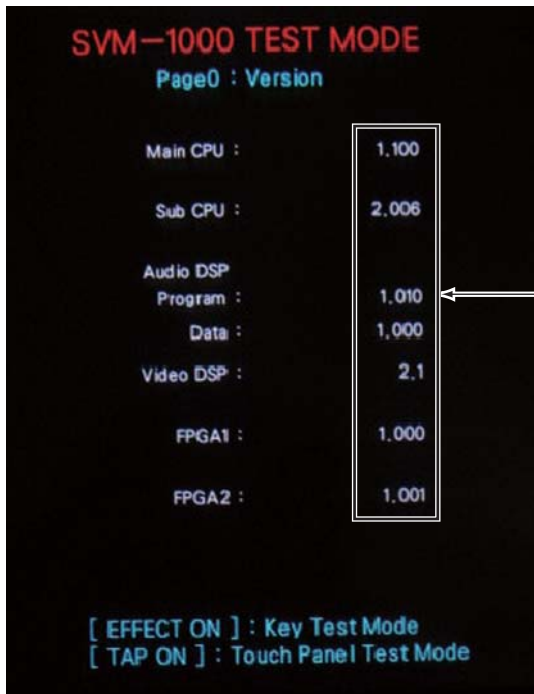


6.6 TEST MODE IDENTIFICATION

Page0 : Main Page / VERSION

Mode to display the versions of the main CPU, sub-CPU, Audio DSP, video DSP, FPGA1, and FPGA2

In the figure below, the version of the main CPU is 1.100.



The versions of the respective devices are displayed.

Press the EFFECT ON/OFF key to shift to Key/VR Check mode.

Press the TAP key to shift to LCD/Touch Check mode.

Page1 : LED ALL ON

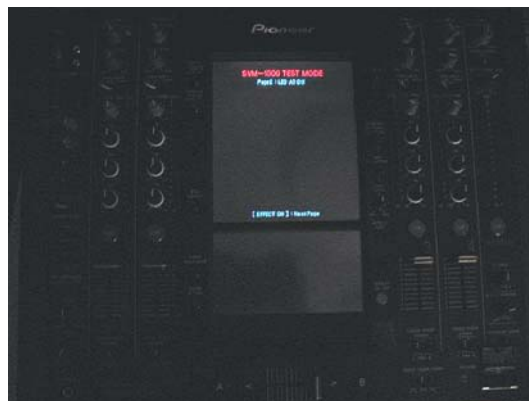
Mode to light all LED and FL segments



Check that all the segments are lit.

Page2 : LED ALL OFF

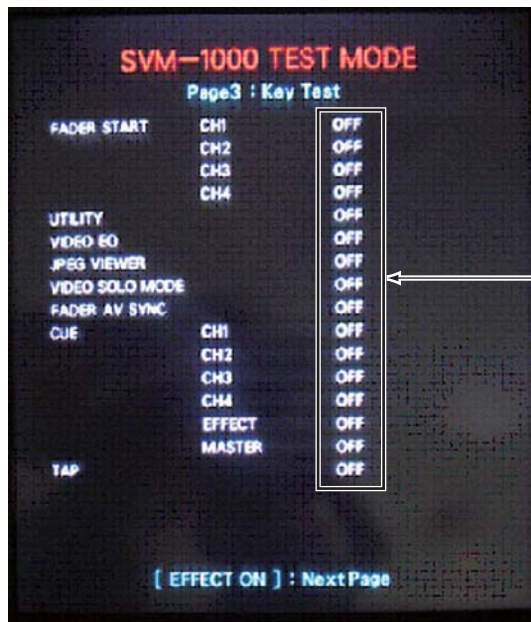
Mode to turn all LED and FL segments off



Check that all the segments are dark.

Page3 : KEY TEST

Mode to indicate the pressed key

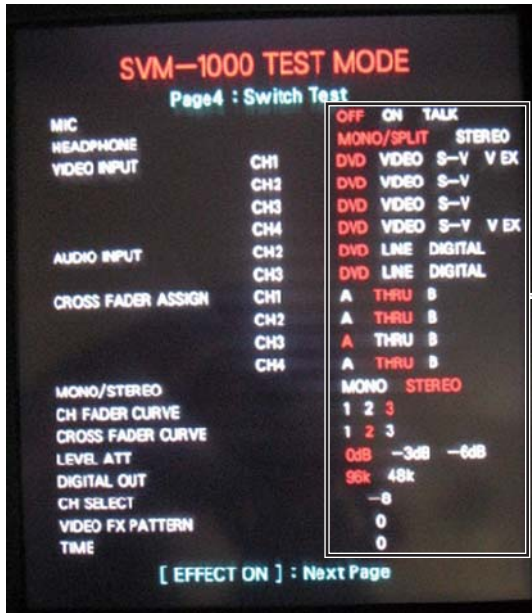


When you press a key, the corresponding indication changes to "ON" (lit in red).

While the key is not pressed, the indication is "OFF" (lit in white).

Page4 : SWITCH TEST

Mode to indicate the switch positions
Check that the settings are switched properly.

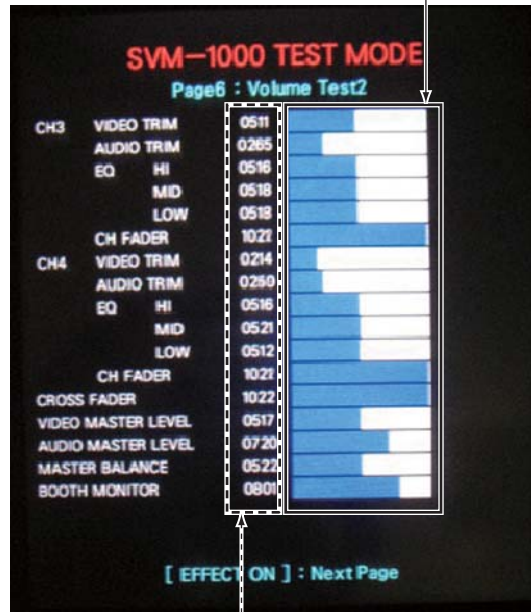


When you change a switch setting, the corresponding indication of the selected position lights in red.

Page5-2 : VOLUME TEST (2)

Mode to indicate the volume-control positions
Check that the volume controls (CH3/CH4/FADER /MASTER/BOOTH blocks) function properly.

The A/D-converted values of the volume control settings are displayed as bars.

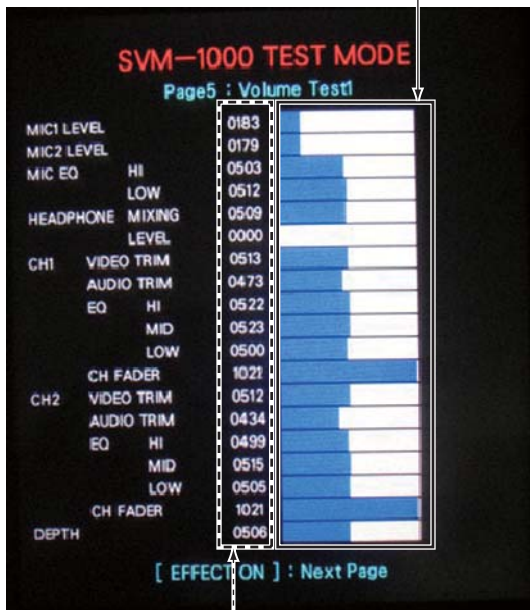


The A/D-converted values of the volume control settings are numerically displayed in the range from 0 to 1023.

Page5-1 : VOLUME TEST (1)

Mode to indicate the volume-control positions
Check that the volume controls (MIC/HEADPHONE/CH1 /CH2 blocks) function properly

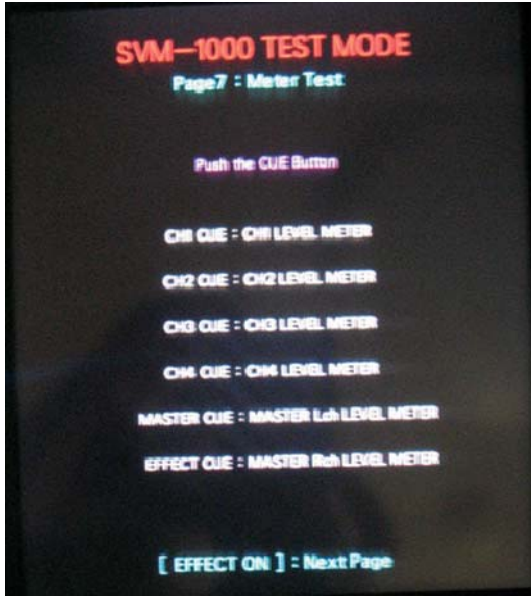
The A/D-converted values of the volume control settings are displayed as bars.



The A/D-converted values of the volume control settings are numerically displayed in the range from 0 to 1023.

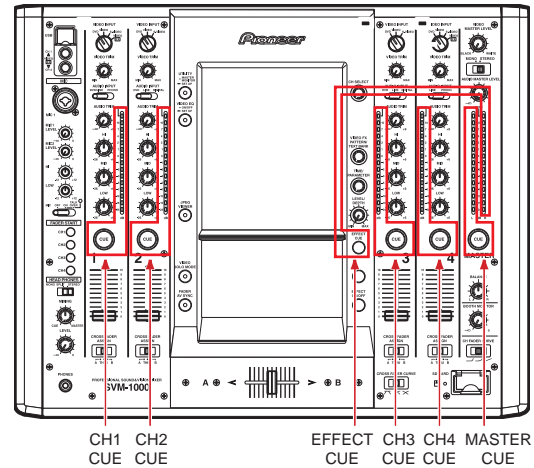
Page6 : METER TEST

Mode to check the LED segments of the meters by turning them on one by one



Each time you press the CUE key, the LED segments of the meters for each channel light one by one.
 All segments are dark at the beginning. When you press the key again after your 15th press of the key (when the top LED is lit), all segments will go dark again, permitting the test to be repeated from the beginning.

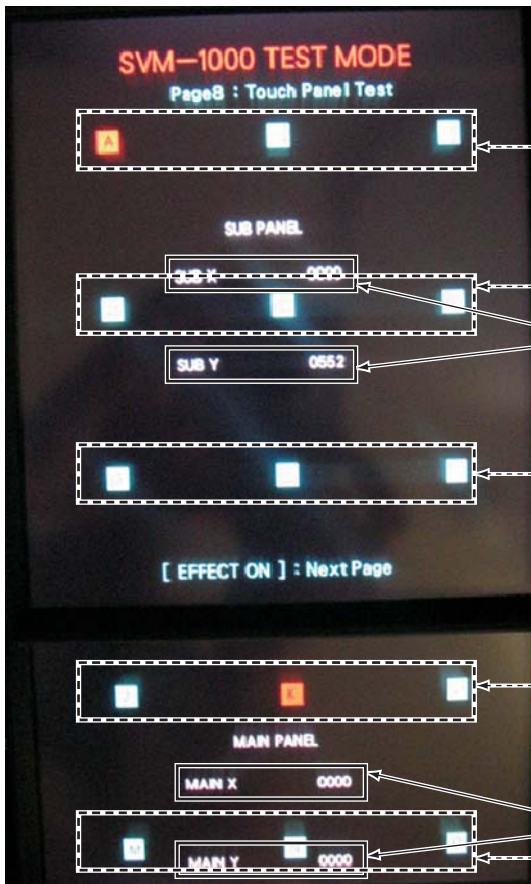
- CH1 CUE : CH1 level meter
- CH2 CUE : CH2 level meter
- CH3 CUE : CH3 level meter
- CH4 CUE : CH4 level meter
- MASTER CUE : MASTR L CH level meter
- EFFECT CUE : MASTR R CH level meter



CH1 CUE CH2 CUE EFFECT CUE CH3 CUE CH4 CUE MASTER CUE

Page7 : TOUCH PANEL TEST

Mode to indicate the coordinates on the touch panels being touched



Check the responses of the touch panels.
 Press the touch-panel check buttons. Proper responses of the buttons mean that the touch panels function properly.
 If there is any misalignment, activate Service mode to re-calibrate the panels.

While you are touching the lower (bottom) touch panel, the corresponding coordinates on the panel are displayed.

Touch-panel check buttons
 When you touch them correctly, the color of each touched button changes between blue and red.

While you are touching the upper (top) touch panel, the corresponding coordinates on the panel are displayed.

Page8-1 : MAIN PANEL TEST

For checking the display colors on the main panel (color bars)

Check the LCD display of the main panel.
Confirm that the colors are displayed properly.

Page8-2 : SUB PANEL TEST

For checking the display colors on the sub-panel (color bars)

Check the LCD display of the sub-panel.
Confirm that the colors are displayed properly.

A

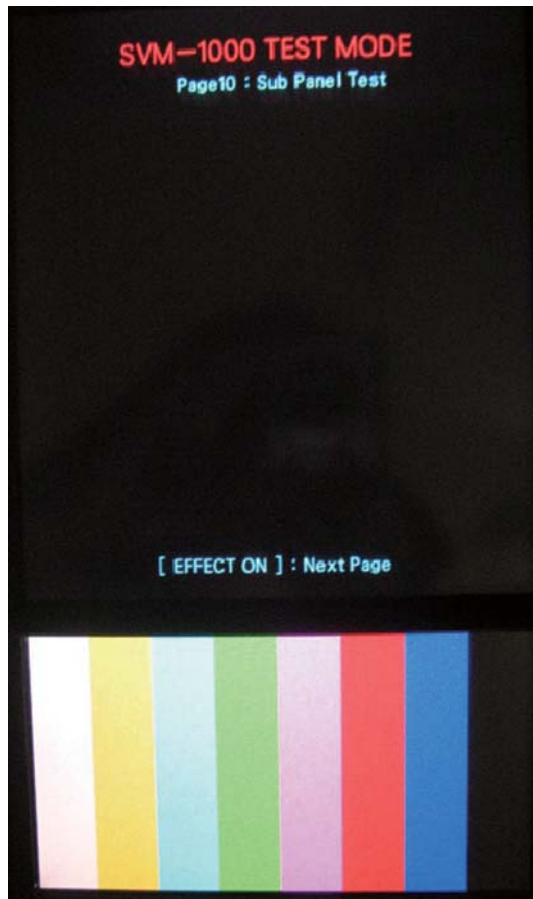
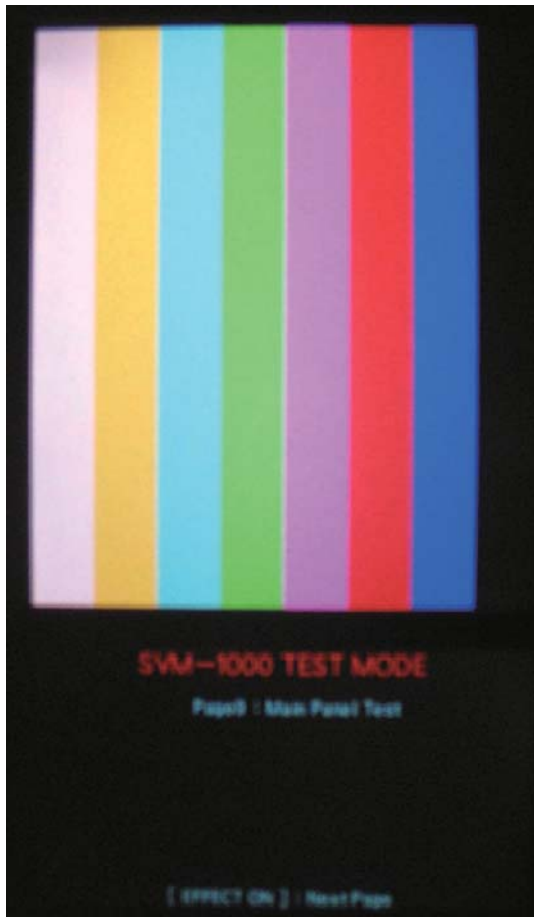
B

C

D

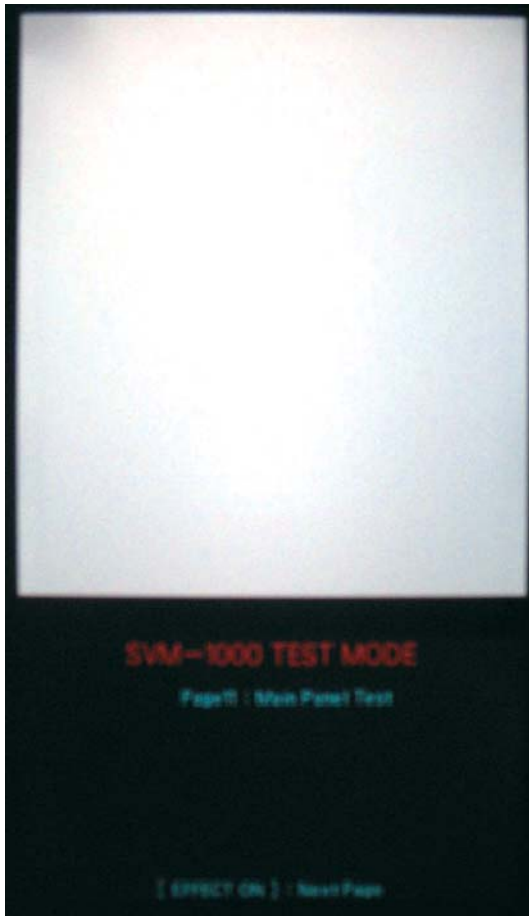
E

F



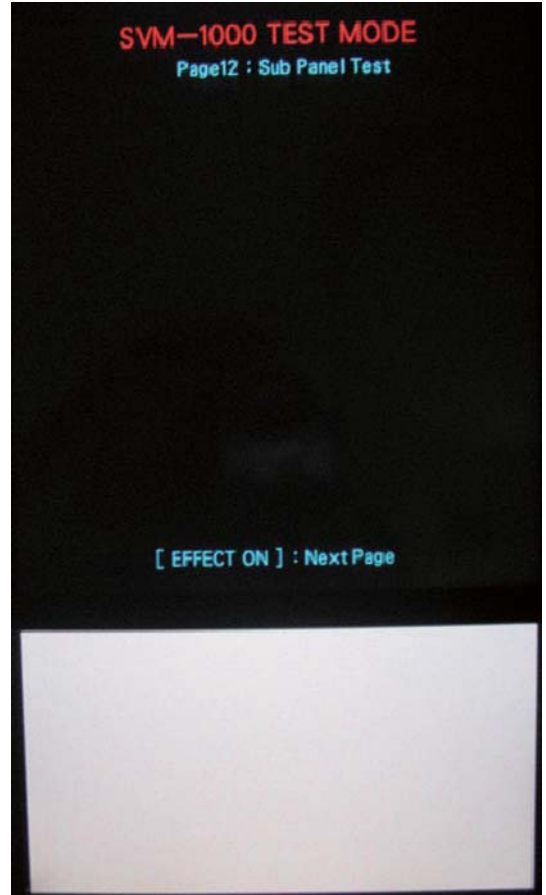
Page9-1 : MAIN PANEL TEST

For checking for defective dots on the main panel (white)
Check the LCD display of the main panel.
Confirm that there are no defective dots (no dots that do not become white).



Page9-2 : SUB PANEL TEST

For checking for defective dots on the sub-panel (white)
Check the LCD display of the sub-panel.
Confirm that there are no defective dots (no dots that do not become white).



A
B
C
D
E
F

Page10-1 : MAIN PANEL TEST

- A For checking the luminescent spots on the main panel (black)
- Check the LCD of the main panel.
- Confirm that there is no colored block remaining.

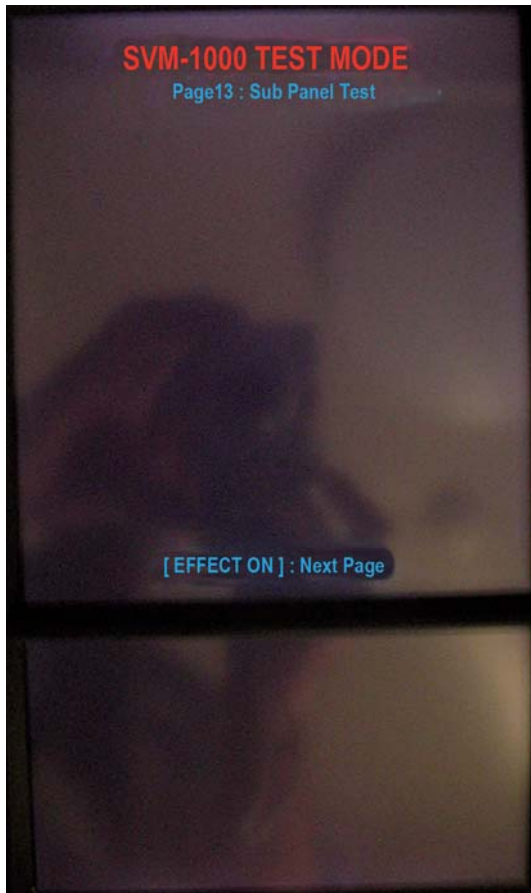
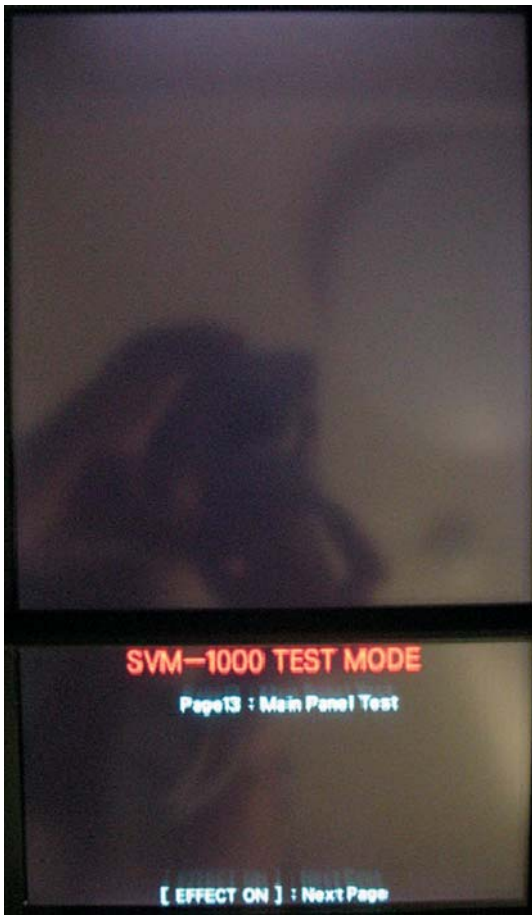
Page10-2 : SUB PANEL TEST

- For checking the luminescent spots on the sub-panel (black)
- Check the LCD of the sub-panel.
- Confirm that there is no colored block remaining.

B

C

D



E

F

6.7 HOW TO USB DOWNLOAD

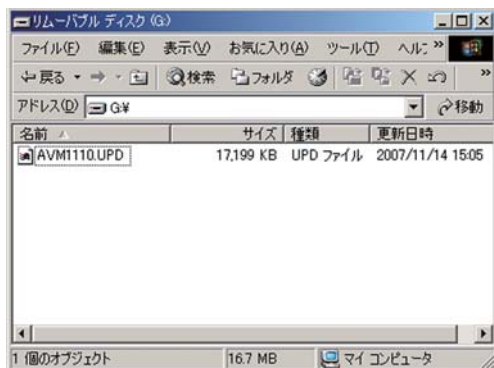
Necessary items

- SVM-1000
- USB flash memory
- Firmware file (AVMxxxx.upd)

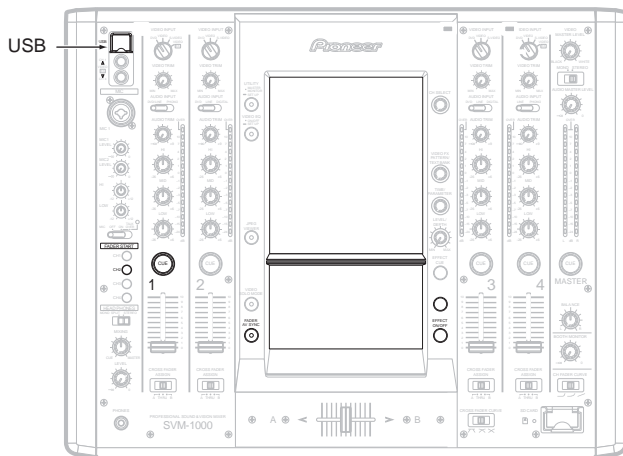
Procedures

- Place the firmware file in the root directory of the USB flash memory.

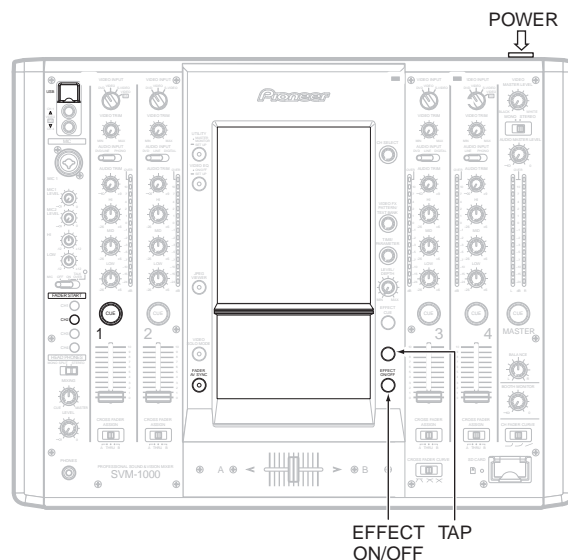
Note: Do not place any files in this folder other than ones with the .upd extension.



- Plug the USB memory device into the USB slot located on the upper panel.

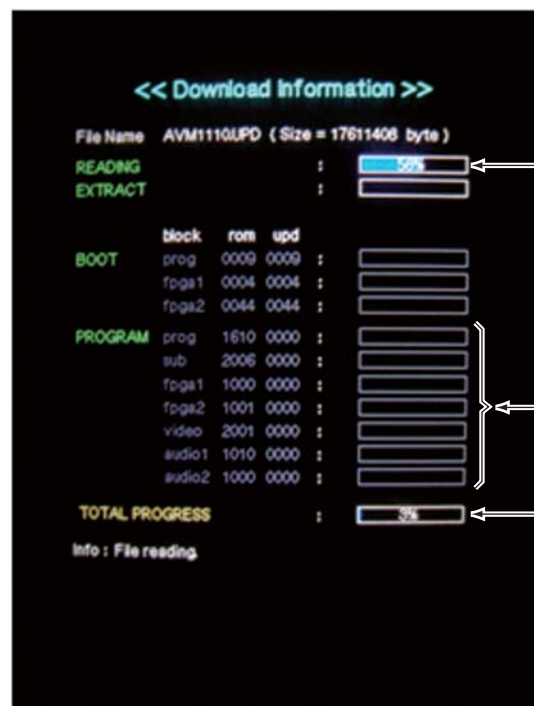


- Hold the POWER key pressed for 5 seconds while holding the EFFECT ON/OFF and TAP keys pressed.



- "Download Information" will be displayed on the LCD display shortly.

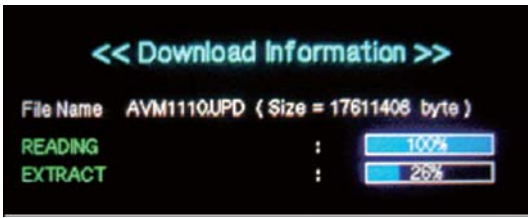
Progress of reading the file from the USB memory device



Downloading status of the entire file

Downloading status of each block

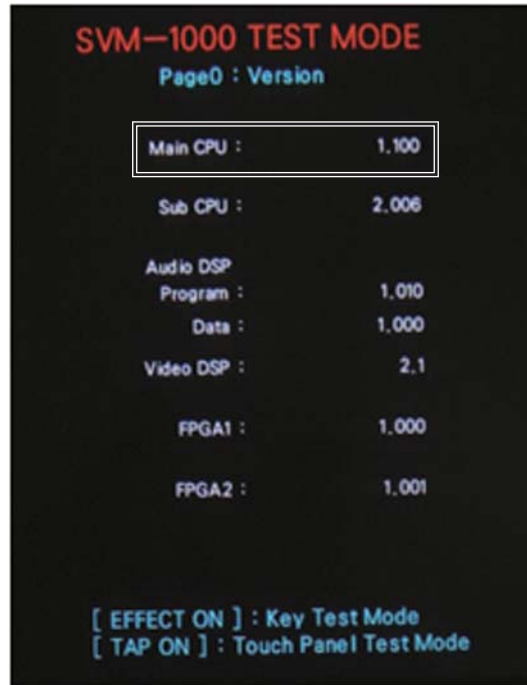
- A ⑤ The status of copying download data from the USB memory device is indicated by the READING status bar located at the top of the LCD display. After READING goes up to 100%, you can pull out the USB memory device.



- B ⑥ The status of data downloading is indicated by the TOTAL PROGRESS status bar located at the bottom of the LCD display. After TOTAL PROGRESS goes up to 100%, updating is completed.



- ⑨ Check the version.
The version of the Main CPU is also the version of the main unit.

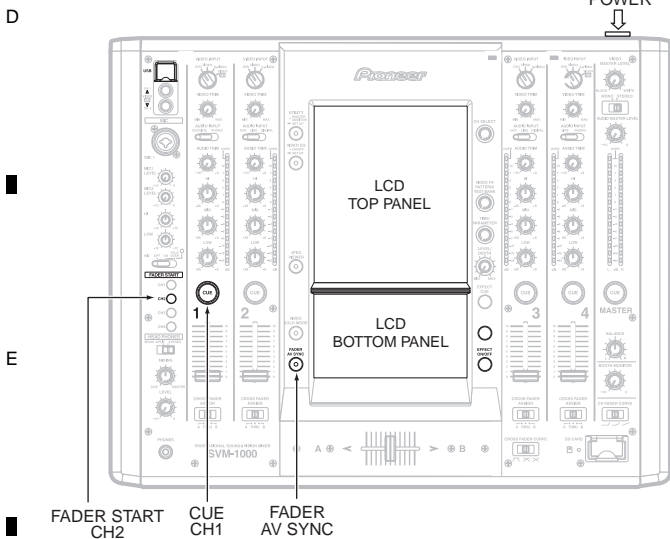


- ⑦ Turn the power off.
- ⑧ Hold the POWER key pressed while holding the FADER START CH2, CUE CH1, and FADER AV SYNC keys pressed. Hold these keys pressed until animation of the PRO DJ logo is finished.

- ⑩ Turn the power off.

Notes:

- As downloading of Audio DSP (program and data) is not protected, if downloading fails, the system cannot restart.
- NEVER turn the power off while downloading is in progress.



Notes:

When the version of the firmware is upgraded
The hardware settings are stored in memory.
Note: Regarding the utility setups, all user settings other than MIDI CHANNEL and KEYBOARD LANGUAGE will be deleted.
Make note of them then make the same settings after replacement.

6.8 NOTES ON VARIOUS SETTINGS WHEN THE UNIT ARE REPLACED

Notes

- ① When the MAIN unit is replaced
Depending on the level of failure, if the user settings are obtainable before replacement, make note of them, as mentioned in ① above, then make the same settings after replacement.
Then perform calibration of the Touch Panel and set the video system according to the destination.
- ② If the Touch panel or LCD panel is replaced, perform calibration of the Touch panel in Service mode.

Factory setting

The factory settings will be restored when FACTORY PRESET is pressed on the HARDWARE SETUP screen. If the MAIN Assy (Touch Panel) is replaced, the factory setting values must be set manually. The factory setting values can be accessed from Service mode.

HARDWARE SETUP	SYSTEM	VIDEO SYSTEM PAL /NTSC (7.5)/NTSC(0)
	TOUCH PANEL	Calibration information

The video system must be set according to the destination.

Destination		Setting Value
North America	/KUCXJ	NTSC (7.5IRE)
Europe	/WYXJ5	PAL
Japan	/JJXJ	NTSC (0IRE)
China	/MAXJ5	PAL
General	/TLXJ	NTSC (0IRE)

User Data

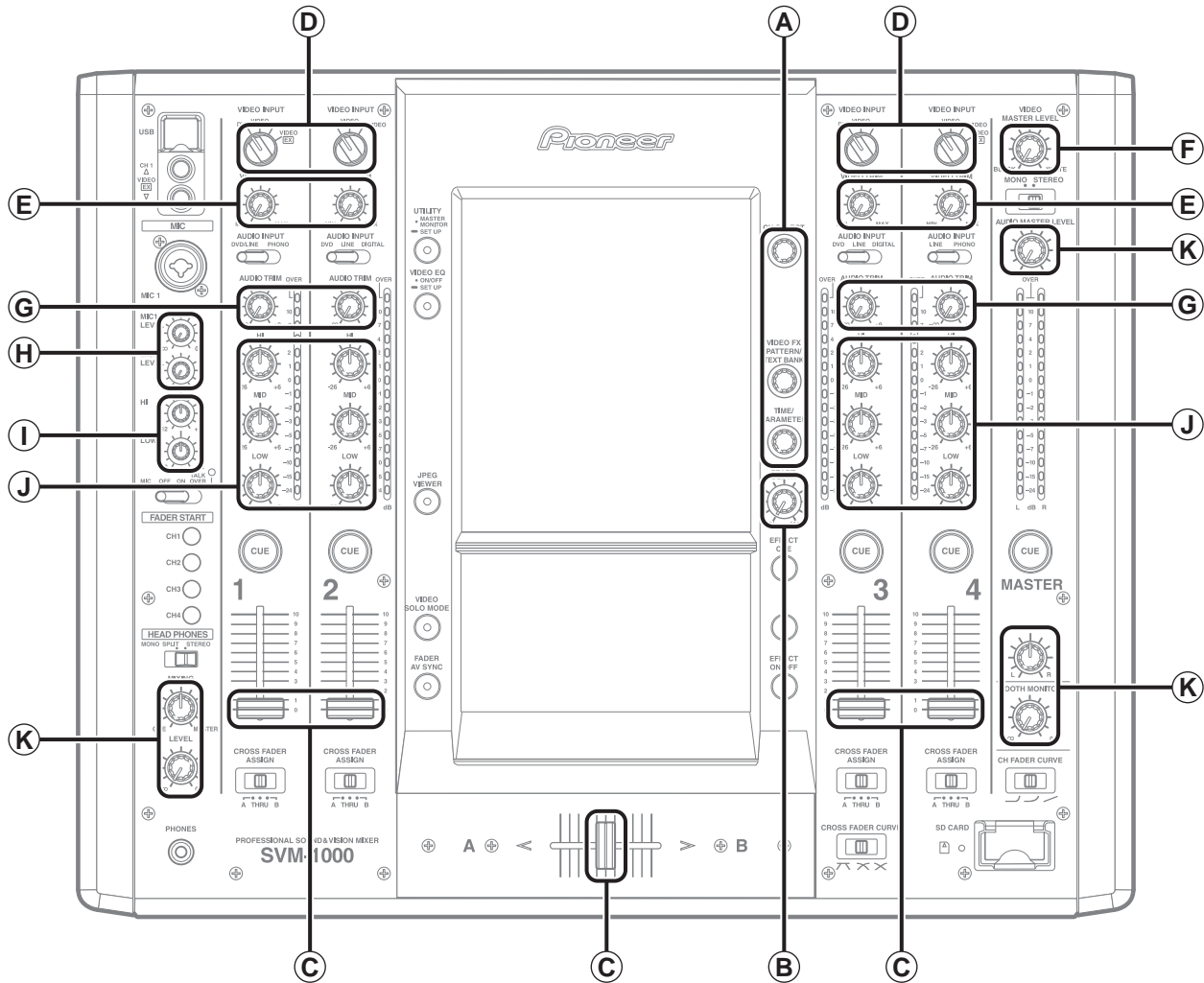
The following items can be set and stored by the user.
Set the user data if the part is replaced with a repaired part.

HARDWARE SETUP (Press the POWER switch while holding the UTILITY button pressed.)	MIC	OUTPUT BOOTH MONITOR ON / OFF
		TALKOVER THRESHOLD -25dB / -20dB / -15dB / -10dB
		TALKOVER LEVEL -25dB / -20dB / -15dB / -10dB
	MASTER OUT	BRIGHTNESS
		CONTRAST
		COLOR
		SATURATION
		SHARPNESS
	MONITOR OUT	BRIGHTNESS
		CONTRAST
		COLOR
		SATURATION
		SHARPNESS
	SYSTEM	VIDEO SYSTEM PAL /NTSC (7.5)/NTSC(0)
DIGITAL OUT MAX LEVEL -19dB / -15dB / -10dB / -5dB		
LCD	BACKLIGHT	
TOUCH PANEL	Calibration information	
UTILITY SETUP (Hold the UTILITY button pressed.)	KEYBOARD LANGUAGE	US ENGLISH / UK ENGLISH / FRANCAIS / DEUTSCH / ITALIANO / NEDERLANDS/ESPAÑOL / PORTUGUES
	MIDI	MIDI CHANNEL

7. DISASSEMBLY

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Knobs and Volumes Location



A EFFECT SELECT Knob (DAA1207) ×3



D SELECT Knob (DAA1209) ×4



G Rotary SW Knob AT (DAA1221) ×4



J Rotary SW Knob (B) (DAA1176) ×12



B EFFECT DEPTH Knob (DAA1208) ×1



E Rotary SW Knob VT (DAA1215) ×4



H Rotary SW Knob S (B) (DAA1178) ×2



K Rotary SW Knob (MA) (DAA1198) ×5



C Slider Knob (DAC2388) ×5



F Rotary SW Knob MAV (DAA1218) ×1



I Rotary SW Knob S (A) (DAA1177) ×2



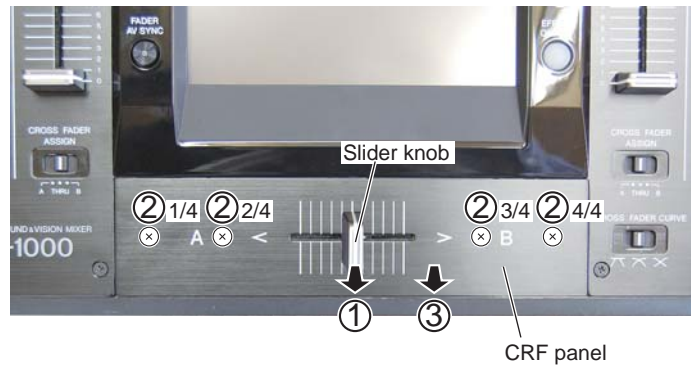
Disassembly

1 Cross Fader Section

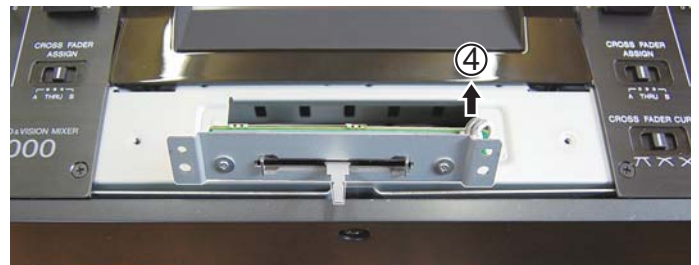
- ① Remove the slider knob.
- ② Remove the four screws.
- ③ Remove the CRF panel.

■ Tightening sequence for the screws when assembling

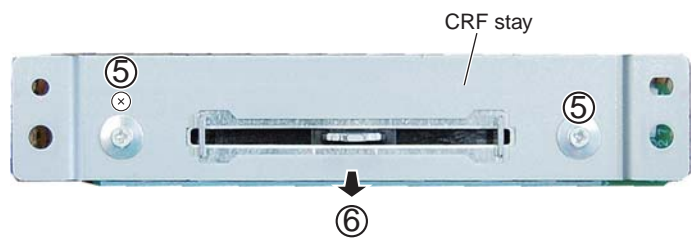
②_{1/4} ⇒ ②_{4/4} ⇒ ②_{2/4} ⇒ ②_{3/4}



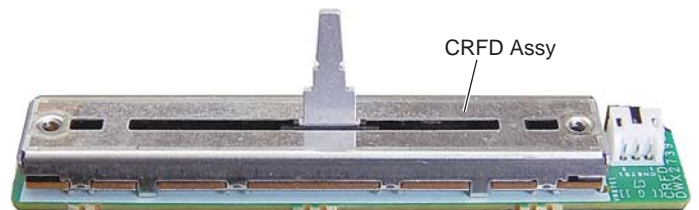
- ④ Disconnect the one connector.



- ⑤ Remove the two screws.
- ⑥ Remove the CRF stay.

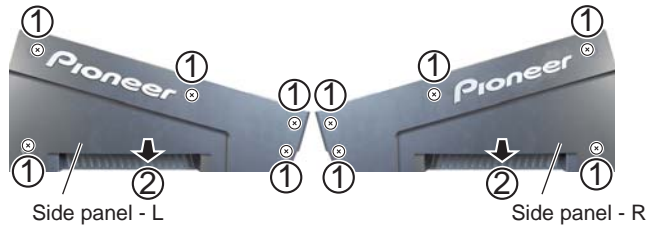


Exchange



2 Operation Panel Section

- ① Remove the ten screws.
- ② Remove the side panels - L and R.



- ③ Remove the one screw.
- ④ Remove the two screws.
- ⑤ Remove the eight screws.



- ⑥ Pull out the operation panel section.

Procedure in re-assembling

- Remove the four screws of the front panel.



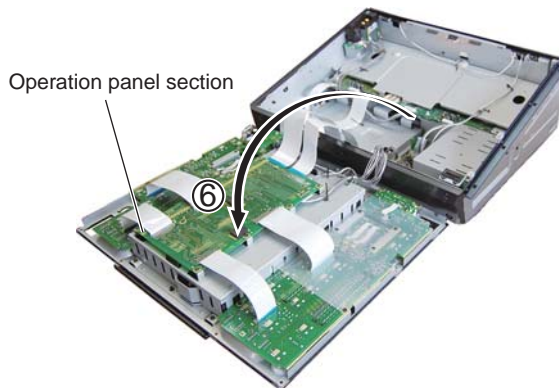
- Remove the front panel.

- Attach the operation panel section to the chassis, and tighten the ten screws in the following order.

- ⑤ 8/8 → ⑤ 5/8 → ⑤ 1/8 → ⑤ 6/8 →
- ⑤ 7/8 → ⑤ 4/8 → ⑤ 2/8 → ⑤ 3/8 → ④ ×2

- Attach the front panel, and tighten the five screws.

- Attach the side panels - L, R, and tighten the ten screws.

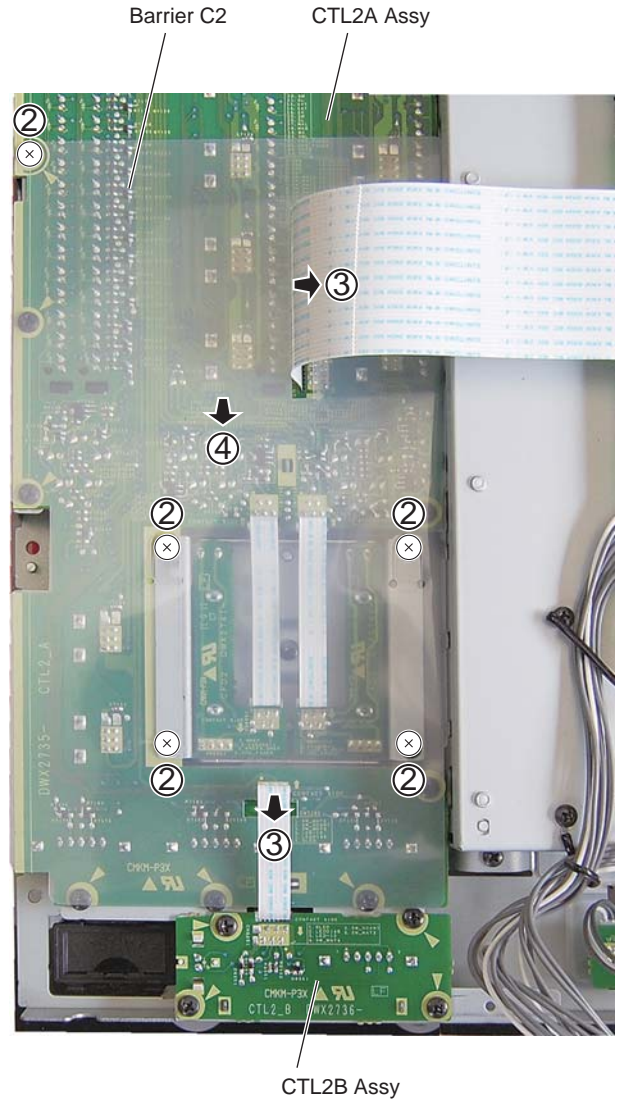


3 CH Fader Section

① Remove the four slider knobs.

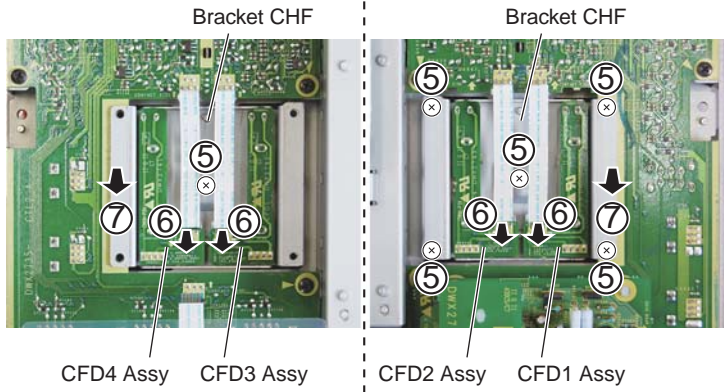


- ② Remove the five screws.
- ③ Disconnect the two flexible cables.
- ④ Remove the barrier C2.



A

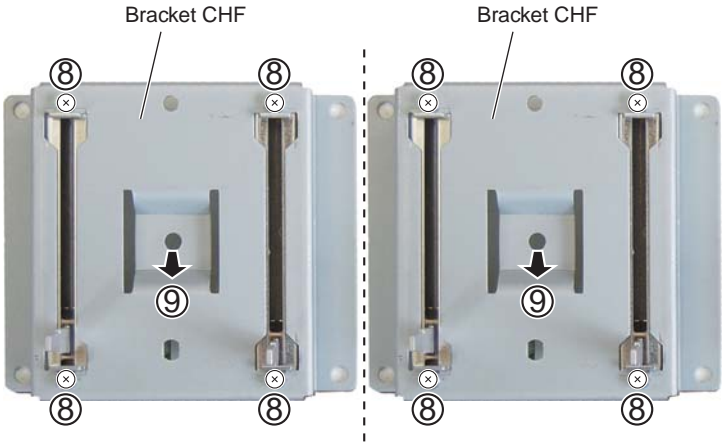
- ⑤ Remove the six screws.
- ⑥ Disconnect the four flexible cables.
- ⑦ Remove the bracket CHF with PC board.



B

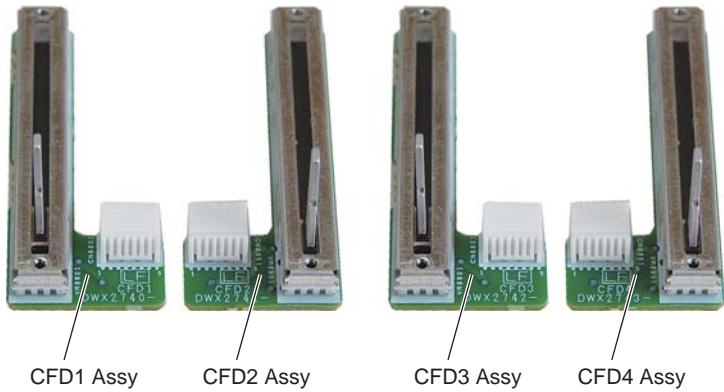
C

- ⑧ Remove the eight screws.
- ⑨ Remove the bracket CHF.



Exchange

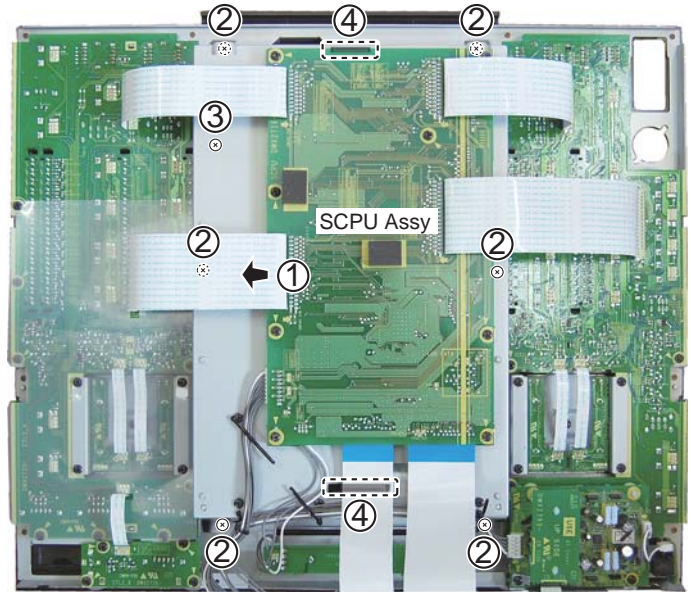
E



F

4 LCD Panel Section

- ① Disconnect the one flexible cable.
- ② Remove the six screws.
- ③ Remove the one screw.
- ④ Unhook the two hooks.

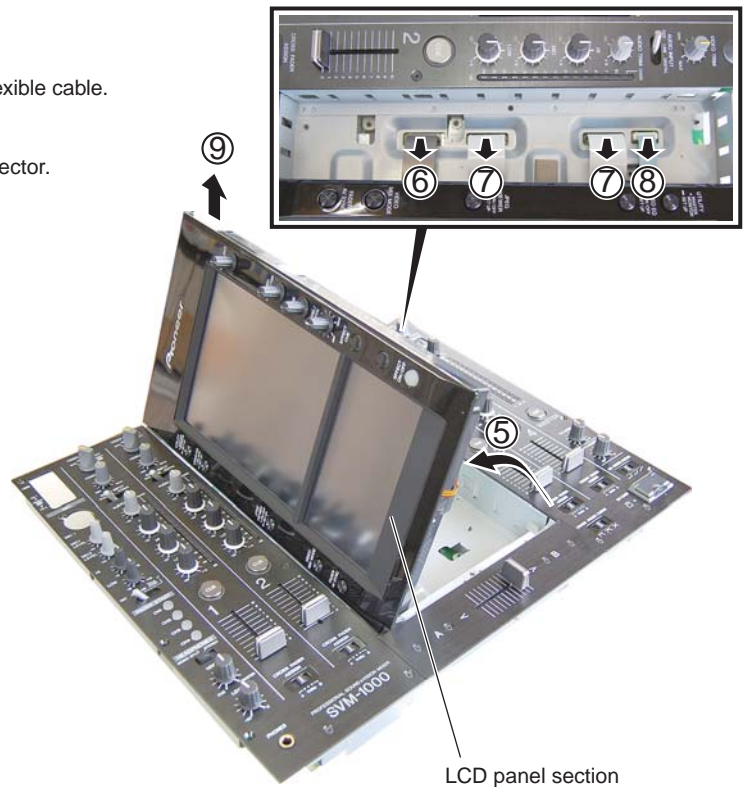


CAUTION

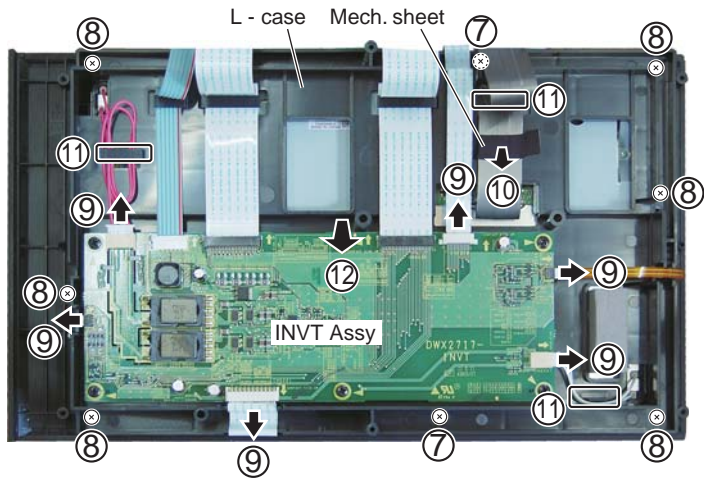
When reverse the operation panel section, support it so that the LCD panel section does not fall.



- ⑤ Pull out the LCD panel section.
- ⑥ First unlock the one flexible cable, then disconnect the flexible cable.
- ⑦ Disconnect the two flexible cables.
- ⑧ First unlock the one connector, then disconnect the connector.
- ⑨ Remove the LCD panel section.



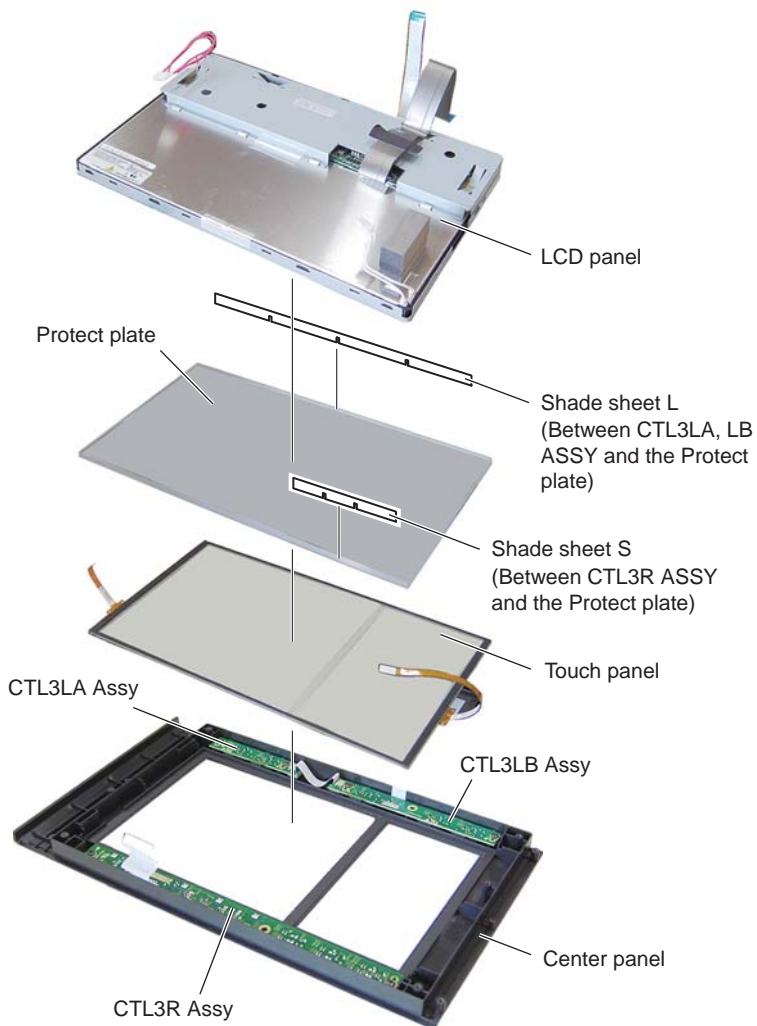
- ⑦ Remove the two screws.
- ⑧ Remove the six screws.
- ⑨ Disconnect the four flexible cables and two connectors.
- ⑩ Remove the mech. sheet.
- ⑪ Unhook the three jumper wires.
- ⑫ Remove the L - case with PC board.



Exchange

Note:
If the Touch panel or LCD panel is replaced, perform calibration of the Touch panel. For details, see "6. SERVICE MODE".

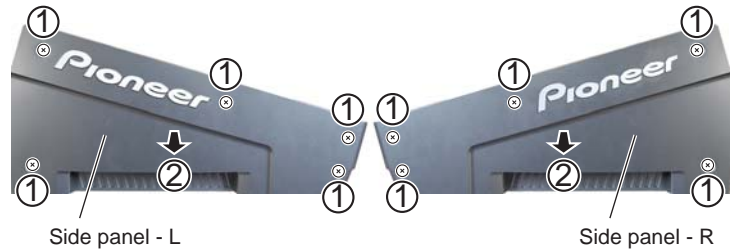
How to attach Shade Sheets L and S:
After attaching the Protect Plate to the Touch Panel, align the cutouts of Shade Sheets L and S with the ribs of the center panel and attach them.



Diagnosis of Main Section

1 3F Section

- ① Remove the ten screws.
- ② Remove the side panels - L and R.



- ③ Remove the three screws.
- ④ Remove the six screws.



- ⑤ Remove the three screws.
- ⑥ Disconnect cables, connectors, as required.
- ⑦ Remove the bracket USB with PC board.
- ⑧ Remove the bracket MIC with PC board.
- ⑨ Remove the shield case A with PC board.

■ Tightening sequence for the screws when assembling

④_{4/6} ⇒ ④_{6/6} ⇒ ④_{5/6}



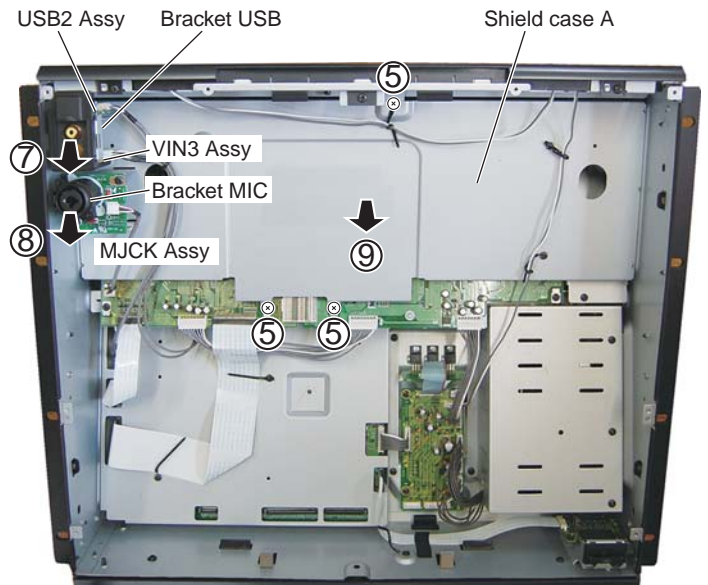
④_{3/6} ⇒ ④_{1/6} ⇒ ④_{2/6}



③_{1/3} ⇒ ③_{2/3} ⇒ ③_{3/3}



⑤ X3



A

↓
Diagnosis

AUD1 Assy

AUD2 Assy

B



C

D

E

F



2 2F Section

- ① Remove the four short-pin plugs.
- ② Remove the three nuts.
- ③ Remove the Phone washer.
- ④ Remove the Phone spacer.
- ⑤ Remove the nine screws.



- ⑥ Remove the two screws.
- ⑦ Disconnect cables, connectors, as required.
- ⑧ Remove the AUD1 and AUD2 Assemblies.

■ Tightening sequence for the screws when assembling

⑤_a ⇒ ⑤_b ⇒ ⑤_c ⇒ ⑤_d ⇒ ⑤_{other}



④ Insert the Phone spacer.



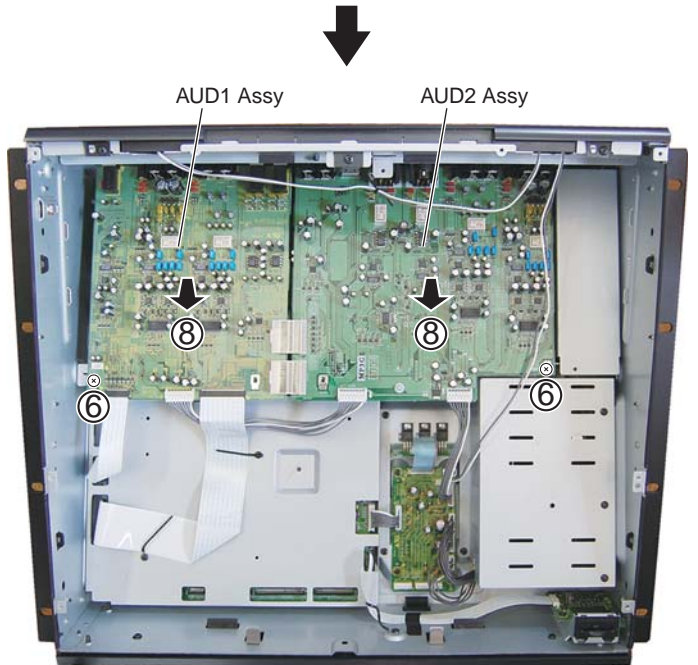
③ Insert the Phone washer.



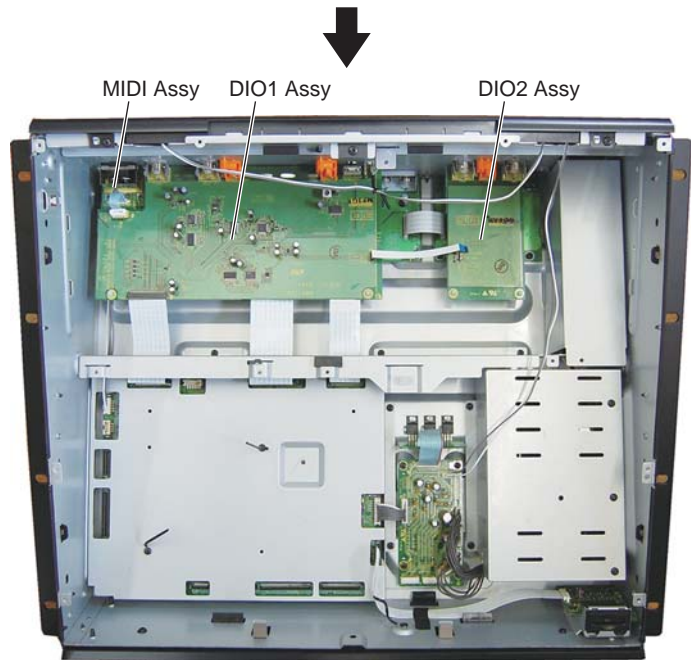
②_a ⇒ ②_c ⇒ ②_b



⑥ x2



Diagnosis

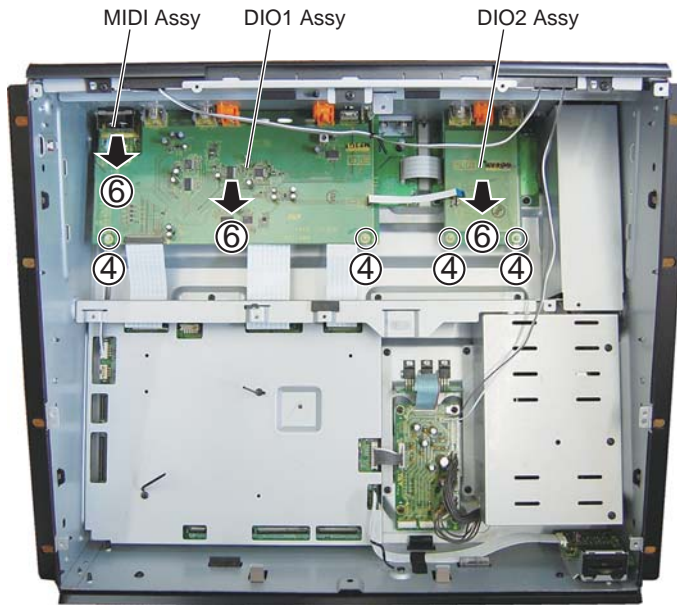


3 1F Section

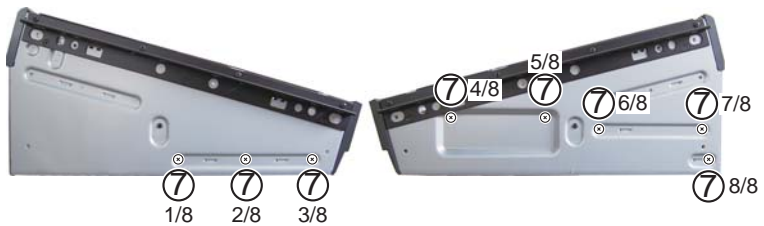
- ① Remove the two screws.
- ② Remove the six screws.
- ③ Remove the three screws.



- ④ Remove the four PCB supports.
- ⑤ Disconnect cables, connectors, as required.
- ⑥ Remove the DIO1, DIO2 and MIDI Assemblies.



- ⑦ Remove the eight screws.



- ⑧ Remove the eight screws.
- ⑨ Disconnect cables, connectors, as required.
- ⑩ Remove the shield case MAIN.
- ⑪ Remove the shield case AC.
- ⑫ Remove the shield case SWPS.

■ Tightening sequence for the screws when assembling

⑦_{4/8} ⇒ ⑦_{5/8}



⑦_{1/8} ⇒ ⑦_{3/8} ⇒ ⑦_{2/8}



⑦_{7/8} ⇒ ⑦_{6/8} ⇒ ⑦_{8/8}



⑧_a ⇒ ⑧_b ⇒ ⑧_{other}



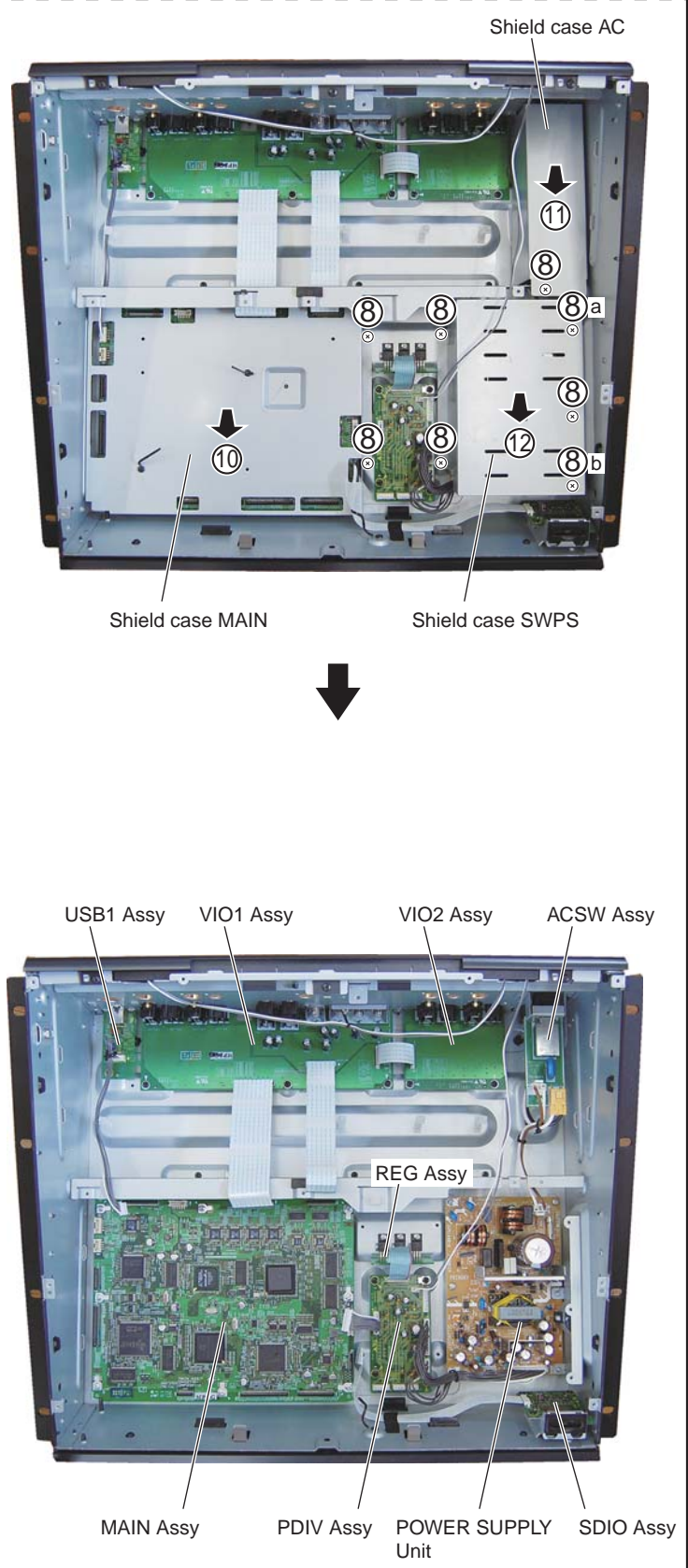
Diagnosis

Note on replacement of the MAIN Assy:

Depending on the level of failure, if the user settings are obtainable before replacement, make note of them then make the same settings after replacement.

- After replacement, perform calibration of the touch panel.
- Set the video system according to the destination.

For details, see "6. SERVICE MODE".



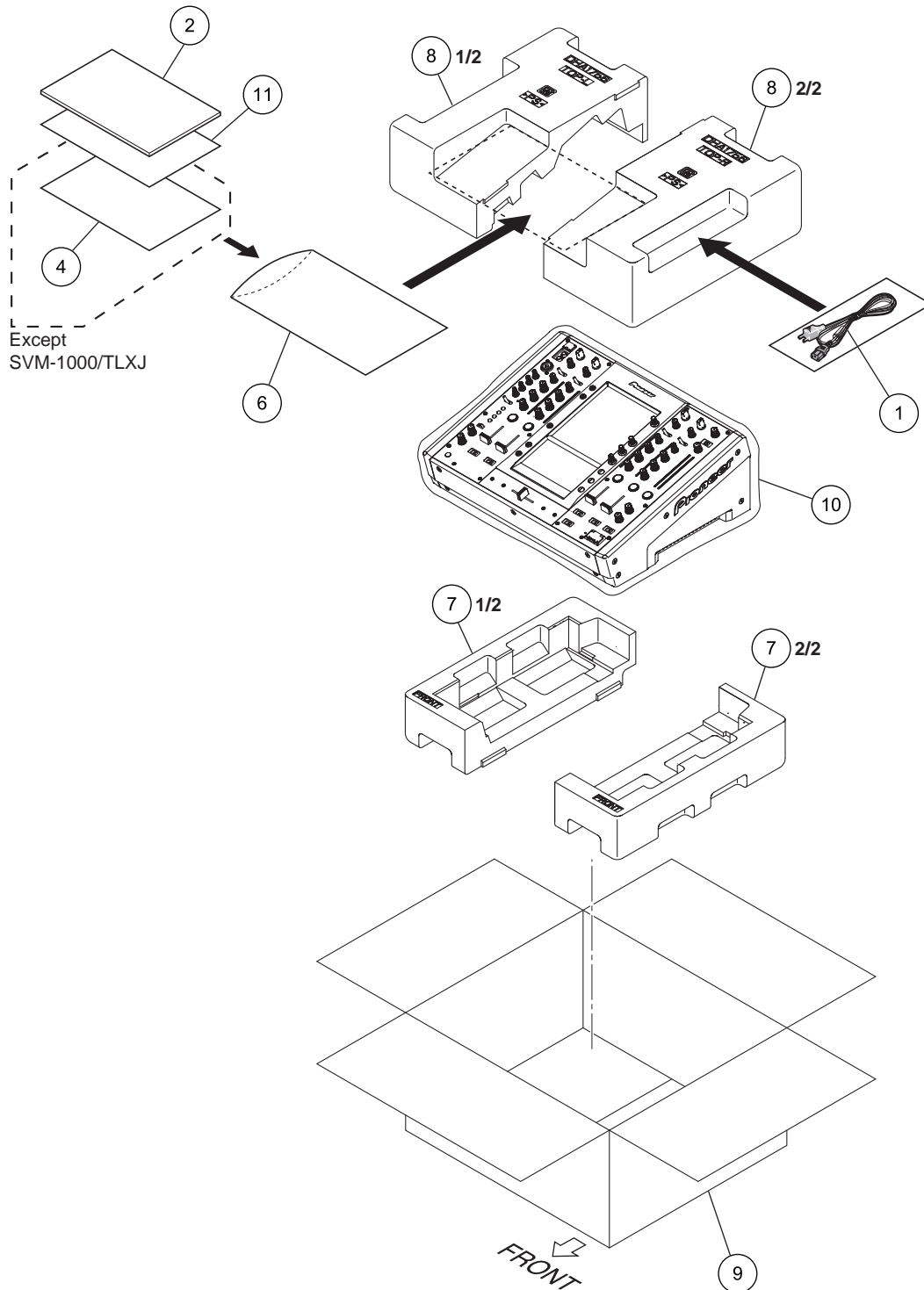
8. EACH SETTING AND ADJUSTMENT

- There is no information to be shown in this chapter.

9. EXPLODED VIEWS AND PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to ∇ mark on product are used for disassembly.
 - For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
⚠	1 AC Power Cord	See Contrast table (2)
	2 Operating Instructions	See Contrast table (2)
	3 •••••	
NSP	4 Warranty Card	See Contrast table (2)
	5 •••••	
NSP	6 Polyethylene Bag (0.06 x 230 x 340)	AHG7117
	7 Bottom Pad	DHA1754
	8 Top Pad	DHA1756
	9 Packing Case	See Contrast table (2)
	10 Mirror Mat (1200 x 1000)	DHL1169
	NSP 11 Caution Sheet	DRM1305

(2) CONTRAST TABLE

SVM-1000/KUCXJ, WYXJ5 and TLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SVM-1000 /KUCXJ	SVM-1000 /WYXJ5	SVM-1000 /TLXJ
⚠	1	AC Power Cord	DDG1028	ADG7062	ADG7062
	2	Operating Instructions (English)	DRB1421	Not used	Not used
	2	Operating Instructions (English, French, German, Italian, Dutch, Spanish, Russian)	Not used	DRB1422	Not used
	2	Operating Instructions (English, Spanish, Chinese)	Not used	Not used	DRB1423
	4	Warranty Card	ARY7043	ARY7107	Not used
NSP	9	Packing Case	DHG2719	DHG2718	DHG2720

9.2 EXTERIOR SECTION

1

2

3

4

A

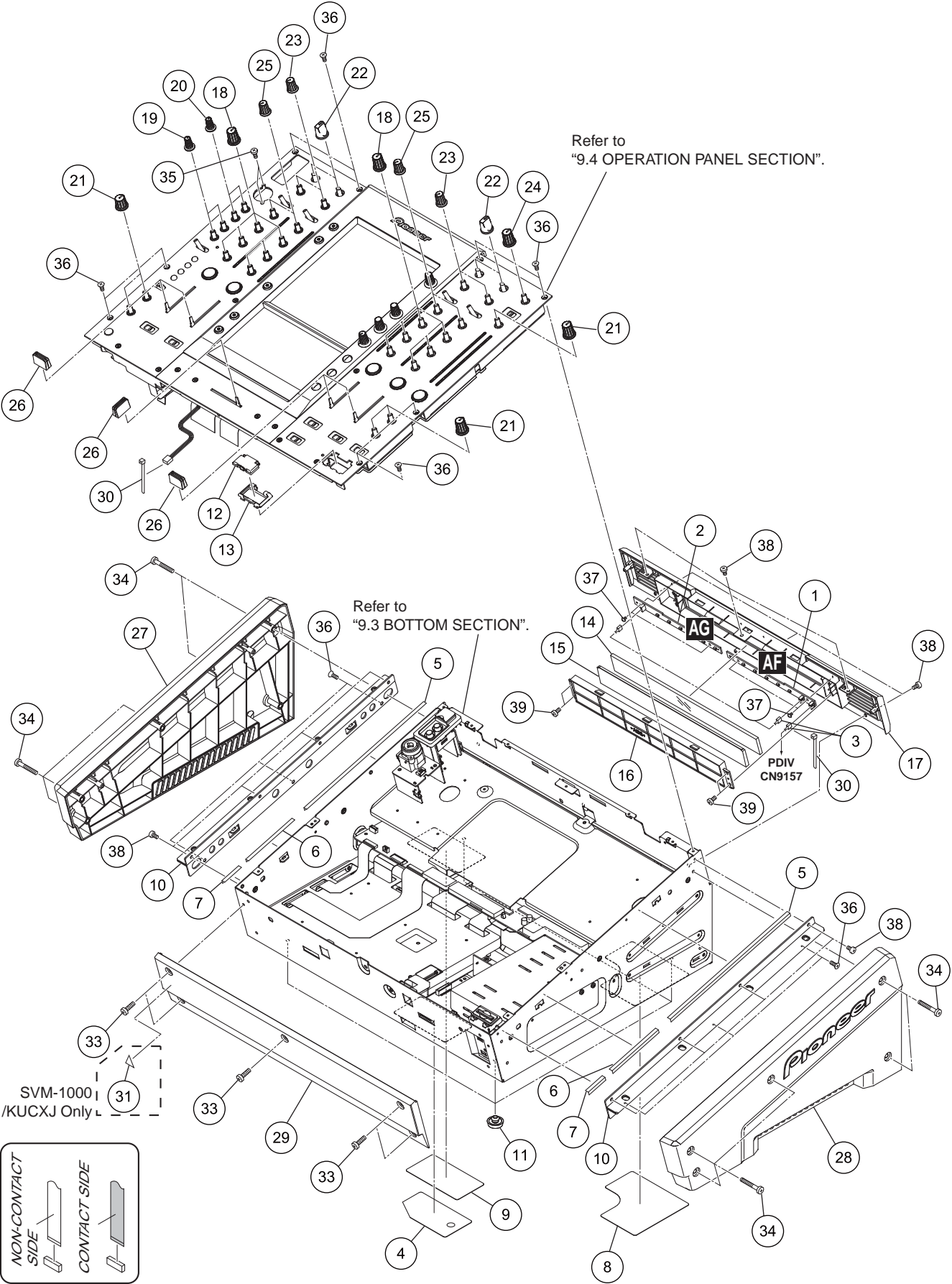
B

C

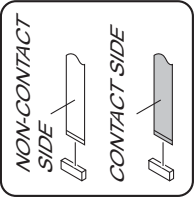
D

E

F



SVM-1000
/KUCXJ Only



1

2

3

4

(1) EXTERIOR SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	ILMR Assy	DWX2722	21	Rotary SW Knob (MA)	DAA1198
2	ILML Assy	DWX2723	22	SELECT Knob	DAA1209
3	Connector Assy	PF02EE-D32	23	Rotary SW Knob VT	DAA1215
4	Bottom Sheet	DEC3023	24	Rotary SW Knob MAV	DAA1218
5	Tape L	DEC3024	25	Rotary SW Knob AT	DAA1221
6	Tape M	DEC3025	26	Slider Knob	DAC2388
7	Tape S	DEC3026	27	Side Panel - L	DNK4889
8	Bottom Sheet R	DEC3035	28	Side Panel - R	DNK4890
9	Bottom Sheet L	DEC3036	29	Front Panel	DNK4891
10	Rack Mount Bracket	DNH2790	30	Binder (SKB-90BK)	ZCA-SKB90BK
11	Leg Assy	REC-434	NSP 31	Caution Label	See Contrast table (2)
12	Card Door	DNK4886	32	•••••	
13	SD Frame	DNK4887	33	Screw C4 x 17	DBA1334
14	Logo Plate	DAH2493	34	Screw C4 x 29	DBA1335
15	Diffusion Plate	DAH2494	35	Screw	BPZ30P120FTB
16	Reflector	DNK4844	36	Screw	CCZ30P060FTB
17	Rear Cover	DNK4845	37	Screw	IPZ20P060FTC
18	Rotary SW Knob (B)	DAA1176	38	Screw	BBZ30P060FTB
19	Rotary SW Knob S (A)	DAA1177	39	Screw	BPZ30P080FTB
20	Rotary SW Knob S (B)	DAA1178			

(2) CONTRAST TABLE

SVM-1000/KUCXJ, WYXJ5 and TLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SVM-1000 /KUCXJ	SVM-1000 /WYXJ5	SVM-1000 /TLXJ
NSP	31	Caution Label	DRW1975	Not used	Not used

9.3 BOTTOM SECTION

1

2

3

4

A

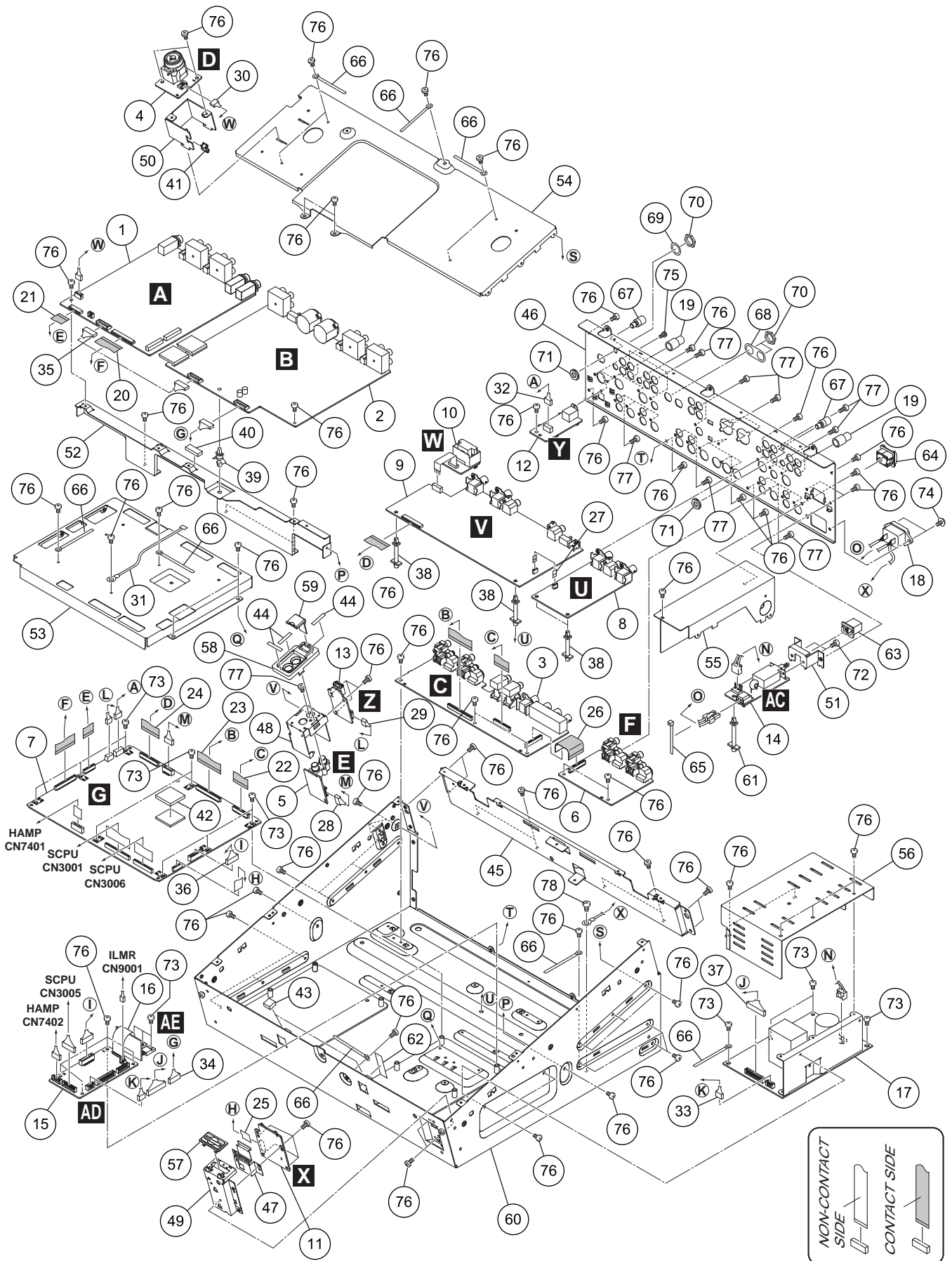
B

C

D

E

F



1

2

3

4

(1) BOTTOM SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	AUD1 Assy	DWX2718	41	Edge Saddle	DEC1807
2	AUD2 Assy	DWX2721	42	Radiation Sheet	DEC2694
3	VIO1 Assy	DWX2731	43	Gasket S	DEC3028
4	MJCK Assy	DWX2738	44	Cushion	DEC3055
5	VIN3 Assy	DWX2733	NSP 45	Rear Frame	DNC1821
6	VIO2 Assy	DWX2732	NSP 46	Rear Panel	See Contrast table (2)
7	MAIN Assy	DWX2715	47	Bracket Earth	DNF1751
8	DIO2 Assy	DWX2719	48	Bracket USB	DNF1753
9	DIO1 Assy	DWX2724	49	Bracket SD	DNF1754
10	MIDI Assy	DWX2751	50	Bracket MIC	DNF1758
11	SDIO Assy	DWX2728	51	Bracket PSW	DNF1759
12	USB1 Assy	DWX2727	52	Bracket PCB	DNF1760
13	USB2 Assy	DWX2720	53	Shield Case MAIN	DNH2776
14	ACSW Assy	DWX2737	54	Shield Case A	DNH2780
15	PDIV Assy	DWX2725	55	Shield Case AC	DNH2781
16	REG Assy	DWX2767	56	Shield Case SWPS	DNH2782
⚠ 17	POWER SUPPLY Unit	DWR1440	57	SD Cover	DNK4888
⚠ 18	AC Inlet Assy	See Contrast table (2)	58	USB Cover	DNK4892
19	Short-pin Plug	AKM7008	59	USB Cap	DNK4898
20	34P FFC	DDD1375	NSP 60	Chassis Assy	DXB1948
21	17P FFC	DDD1376	NSP 61	Locking Spacer 40	PNW2488
22	24P FFC	DDD1378	NSP 62	Mech. Sheet	VEX1024
23	34P FFC	DDD1379	63	Power Knob	DAC2306
24	30P FFC	DDD1380	64	Power Knob Guard	DNK4534
25	13P FFC	DDD1381	65	Binder (SKB-90BK)	ZCA-SKB90BK
26	17P FFC	DDD1384	66	Cord Clamper	RNH-184
27	5P FFC	DDD1388	67	Terminal Screw	DKE1014
28	Connector Assy	DKP3791	68	Phone Spacer	DEC2914
29	Connector Assy	DKP3792	69	Horne Washer	DEC2920
30	Connector Assy	DKP3794	70	Nut M12	NKX2FNI
31	Connector Assy	DKP3797	71	Flange Nut M7	DBN1011
32	Connector Assy	PF05PP-D20	72	Screw	AMZ30P040FTC
33	Connector Assy	PF05PP-S15	73	Screw	BBZ30P080FTC
34	Connector Assy	PF07EE-D12	74	Screw	IBZ30P080FTB
35	Connector Assy	PF08EE-D17	75	Screw	PMH30P080FTB
36	Connector Assy	PF09PP-D05	76	Screw	BBZ30P060FTB
37	Connector Assy	PF15PP-S17	77	Screw	BPZ30P080FTB
38	PCB Support	AEC7513	78	Screw	PMB40P080FTC
39	Locking Card Spacer	VEC2234			
40	Rubber Spacer C	DEB1871			

(2) CONTRAST TABLE

SVM-1000/KUCXJ, WYXJ5 and TLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SVM-1000 /KUCXJ	SVM-1000 /WYXJ5	SVM-1000 /TLXJ
⚠	18	AC Inlet Assy (3P)	DKP3761	Not used	Not used
⚠	18	AC Inlet Assy (2P)	Not used	DKP3762	DKP3762
NSP	46	Rear Panel	DNC1836	DNC1820	DNC1881

9.4 OPERATION PANEL SECTION

1

2

3

4

A

B

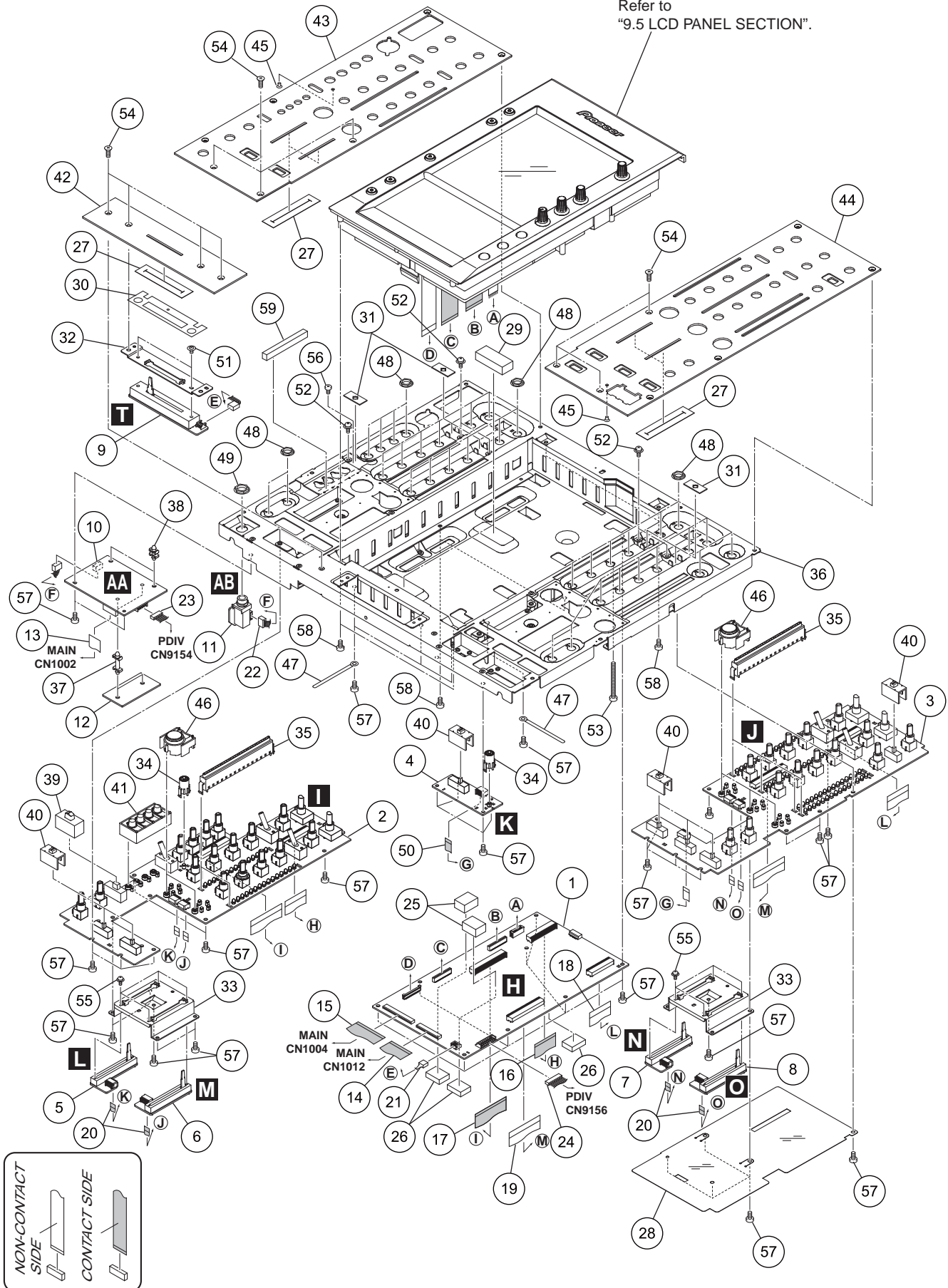
C

D

E

F

Refer to
"9.5 LCD PANEL SECTION".



1

2

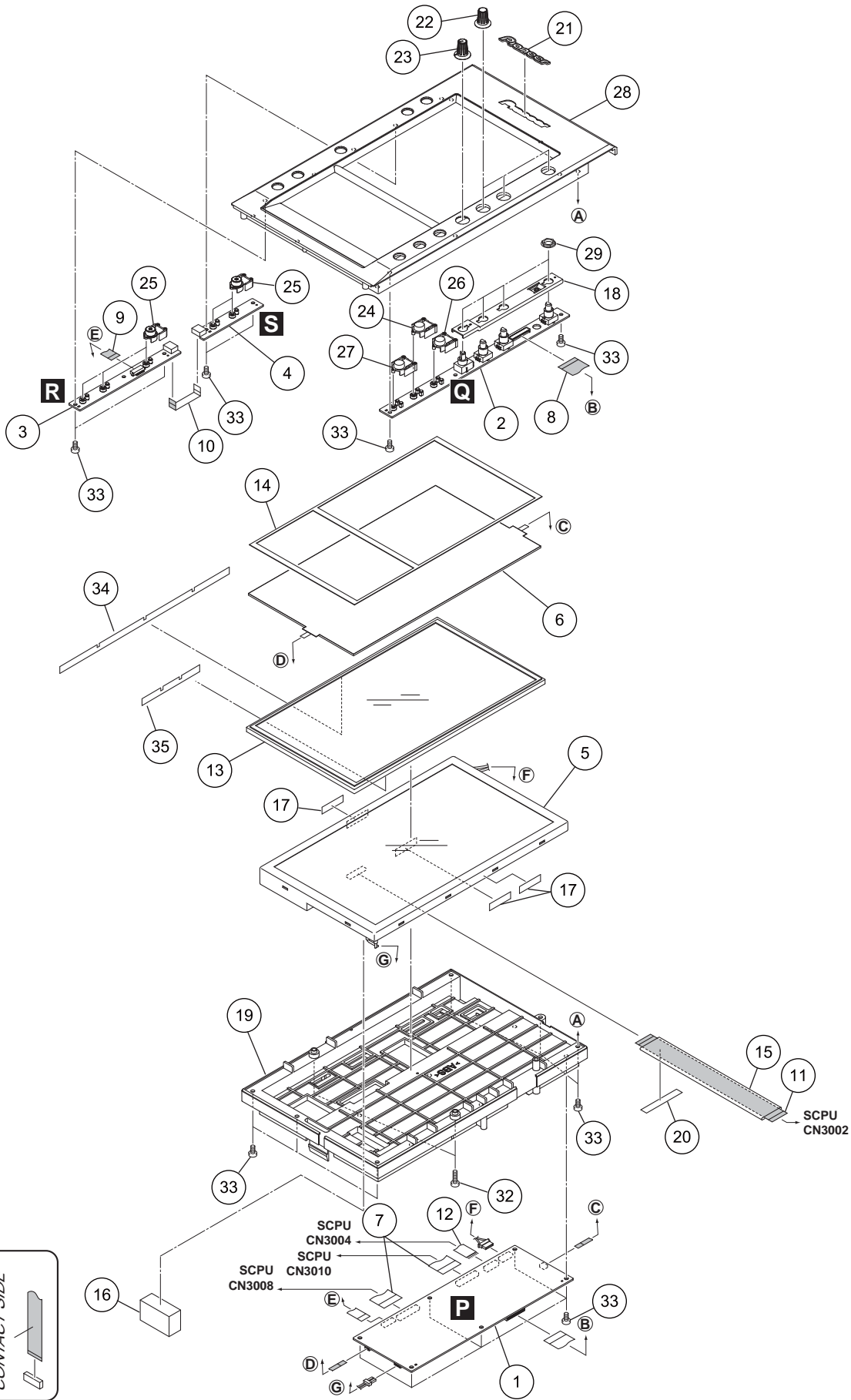
3

4

OPERATION PANEL SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	SCPU Assy	DWX2716	46	CUE Knob Assy	DXB1950	
2	CTL1 Assy	DWX2729	47	Cord Clamper	RNH-184	A
3	CTL2A Assy	DWX2735	48	Flange Nut M9	DBN1008	
4	CTL2B Assy	DWX2736	49	Flange Nut M12	DBN1012	
5	CFD1 Assy	DWX2740	50	6P FFC	DDD1393	
6	CFD2 Assy	DWX2741	51	Screw	DBA1262	
7	CFD3 Assy	DWX2742	52	Screw	AMZ26P040FTC	
8	CFD4 Assy	DWX2743	53	Screw	BBZ30P450FTC	
9	CRFD Assy	DWX2739	54	Screw	CCZ30P060FTB	
10	HAMP Assy	DWX2726	55	Screw	PMH20P040FTC	
11	HJCK Assy	DWX2734	56	Screw	PMH26P040FTC	B
12	COVER PCB	DWX2793	57	Screw	BBZ30P060FTB	
13	12P FFC	DDD1377	58	Screw	BPZ30P080FTB	
14	30P FFC	DDD1382	59	Shade Cushion	DEC3076	
15	40P FFC	DDD1383				
16	28P FFC	DDD1389				
17	36P FFC	DDD1390				
18	24P FFC	DDD1391				
19	36P FFC	DDD1392				
20	5P FFC	DDD1394				C
21	Connector Assy	PF03PP-D15				
22	Connector Assy	PF04PP-D05				
23	Connector Assy	PF05EE-D37				
24	Connector Assy	PF08EE-D30				
25	Rubber Spacer A	DEB1869				
26	Rubber Spacer B	DEB1870				
27	Fader Packing	DEC2903				
28	Barrier C2	DEC2995				
29	Gasket L	DEC3027				D
30	Sheet CRF	DEC3057				
31	SW Packing	DED1177				
32	CRF Stay	DNF1726				
33	Bracket CHF	DNF1752				
34	Lens Holder	DNK4533				
35	Level Meter Assy	DXB1882				
36	Panel Stay Assy	DXB1945				
NSP 37	PCB Holder	REC1220				E
NSP 38	PC Support	VEC1508				
39	Slide SW Cap (A)	DAC2219				
40	Slide SW Cap	DAC2310				
41	SET Knob FS	DAC2389				
42	CRF Panel	DAH2539				
43	Control Panel (L)	DNB1146				
44	Control Panel (R)	DNB1148				
45	Lens	DNK4532				F

9.5 LCD PANEL SECTION




LCD PANEL SECTION PARTS LIST

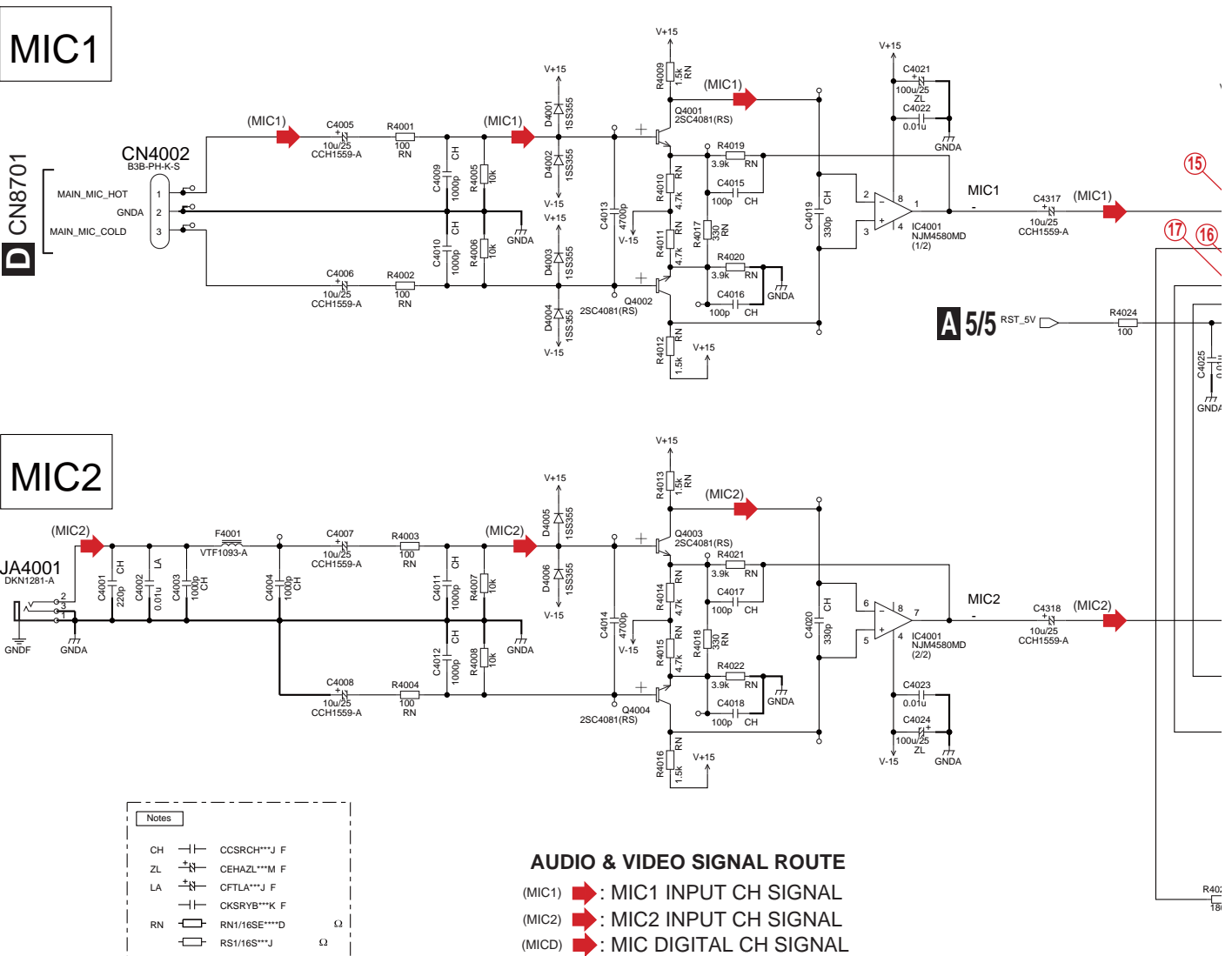
Mark No.	Description	Part No.	
1	INVT Assy	DWX2717	
2	CTL3R Assy	DWX2730	A
3	CTL3LB Assy	DWX2745	
4	CTL3LA Assy	DWX2744	
⚠ 5	LCD Panel	CWX3405	
6	Touch Panel	DSX1074	
7	24P FFC	DDD1385	
8	22P FFC	DDD1386	
9	11P FFC	DDD1387	
10	6P FFC	DDD1393	
11	40P FFC	DDD1395	B
12	Jumper Wire 6P	D20PYY0620E	
13	Protect Plate	DAH2481	
14	Touch Panel Pad	DEC2985	
15	EMC Sheet	DEC3033	
16	Gasket 15x25x40	DEC3034	
17	Aluminum Tape	DEF1018	
18	Bracket SEL	DNF1761	
19	L - Case	DNK4825	
NSP 20	Mech. Sheet	VEX1024	C
21	Pioneer Name Plate (42)	AAM1115	
22	EFFECT SELECT Knob	DAA1207	
23	EFFECT DEPTH Knob	DAA1208	
24	TAP Knob	DAC2377	
25	MODE Knob	DAC2379	
26	EFFECT CUE Knob	DAC2390	
27	EFFECT Knob	DAC2391	
28	Center Panel	DNK4824	
29	Flange Nut M9	DBN1008	D
30	•••••		
31	•••••		
32	Screw	BPZ30P120FTB	
33	Screw	BPZ30P080FTB	
34	Shade Sheet L	DEC3079	
35	Shade Sheet S	DEC3078	

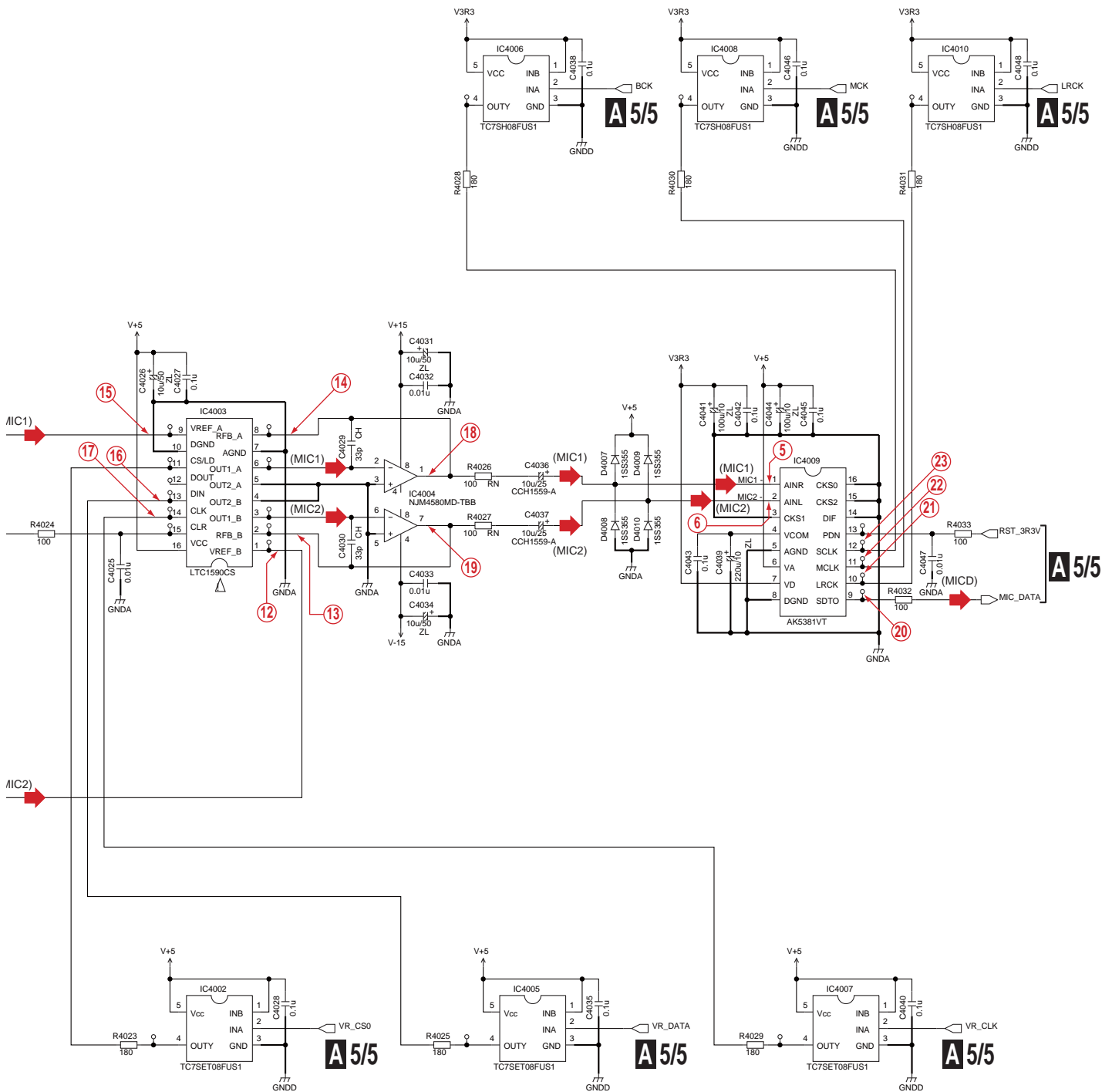
10. SCHEMATIC DIAGRAM

10.1 AUD1 ASSY (1/5)

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
-  : The power supply is shown with the marked box.

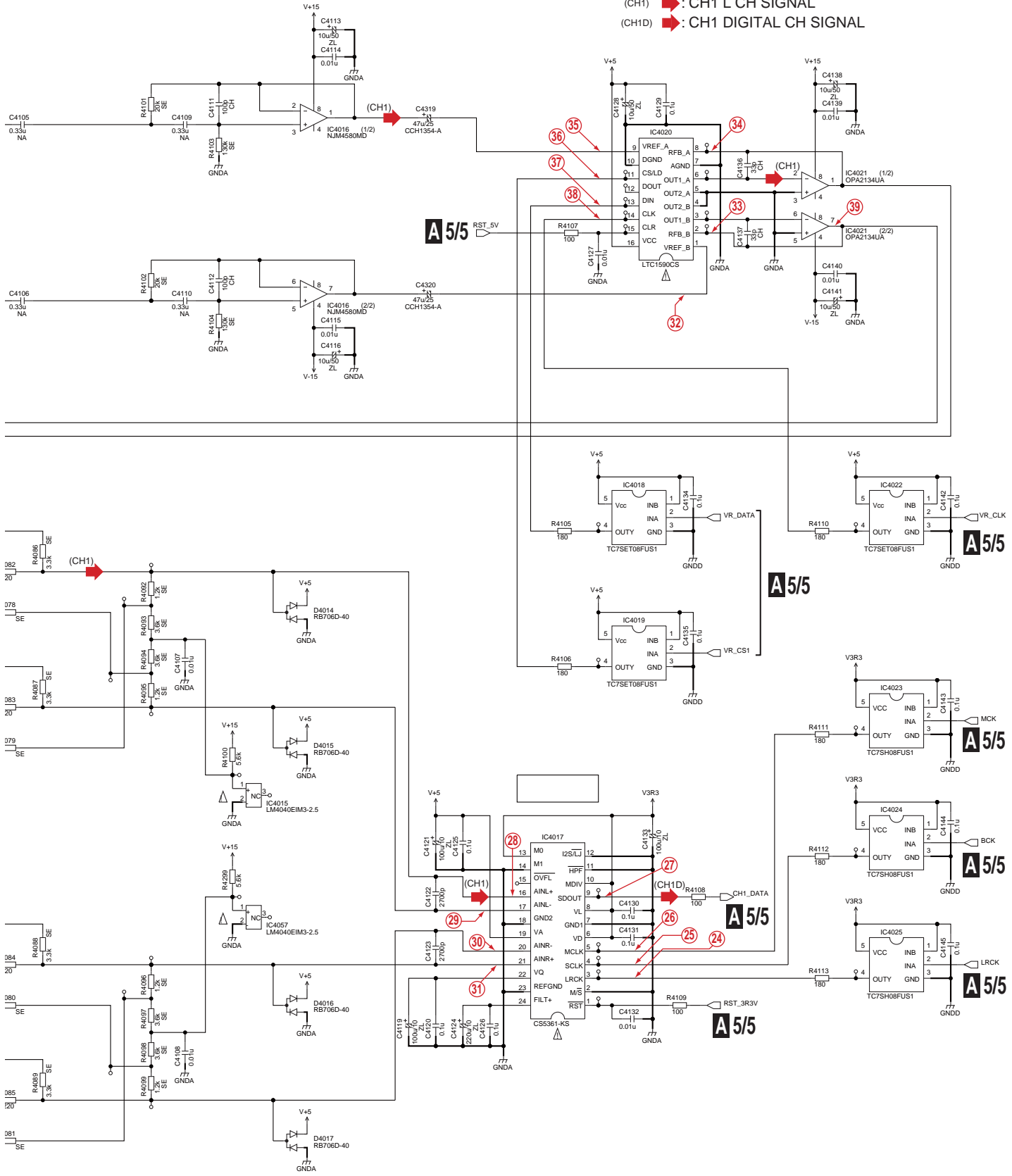
A 1/5 AUD1 ASSY (DWX2718)





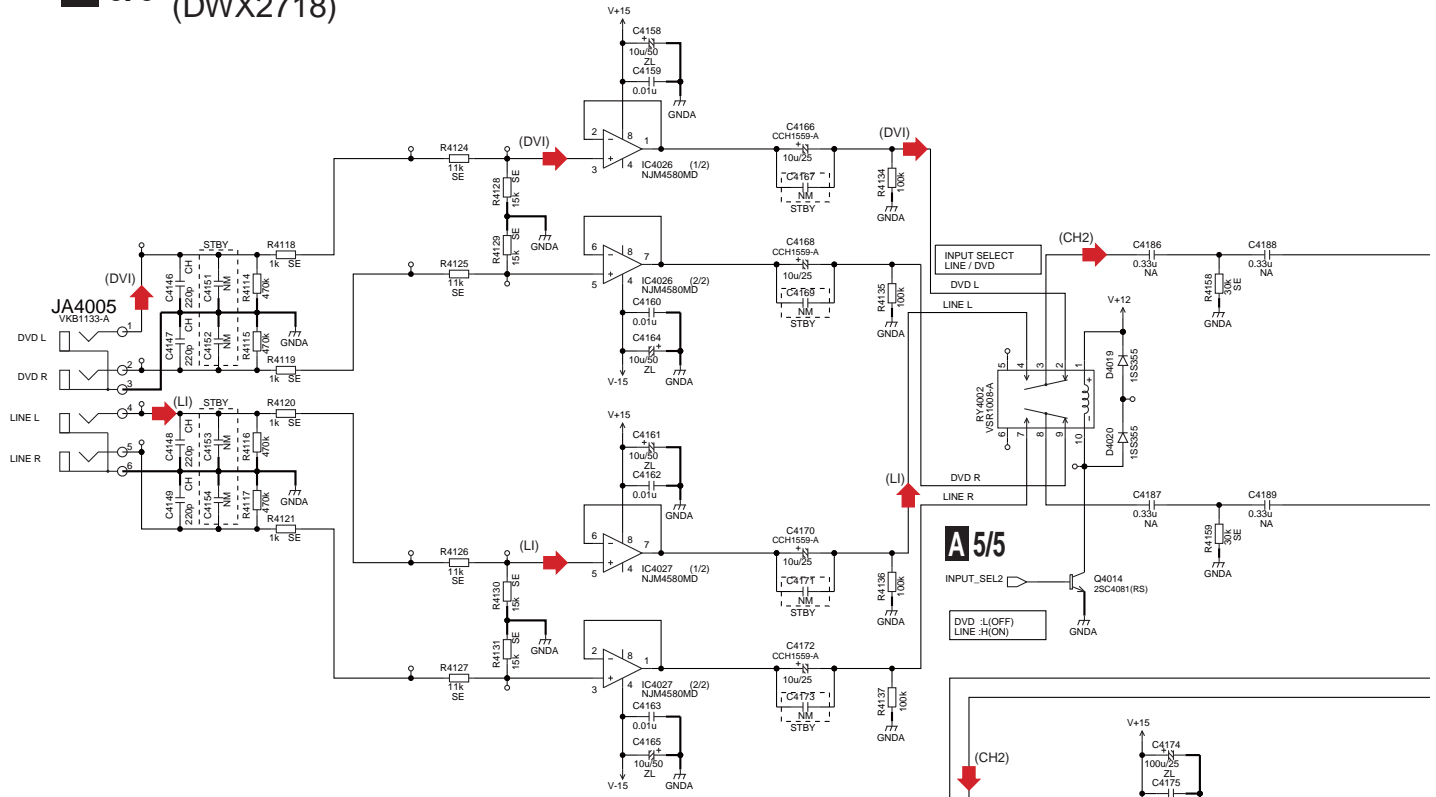
AUDIO & VIDEO SIGNAL ROUTE

- (DVI) : DVD INPUT L CH SIGNAL
- (PI) : PHONO INPUT L CH SIGNAL
- (CH1) : CH1 L CH SIGNAL
- (CH1D) : CH1 DIGITAL CH SIGNAL



10.3 AUD1 ASSY (3/5)

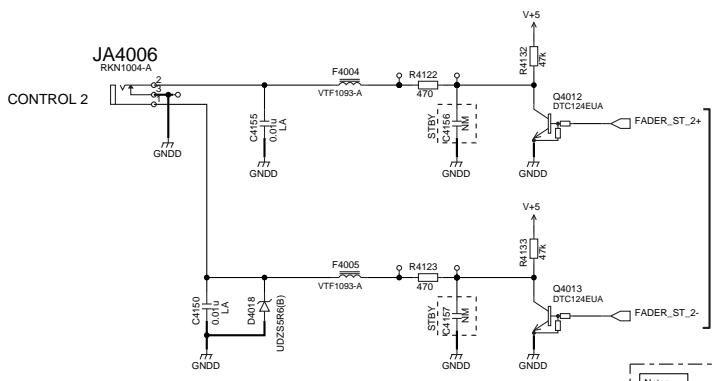
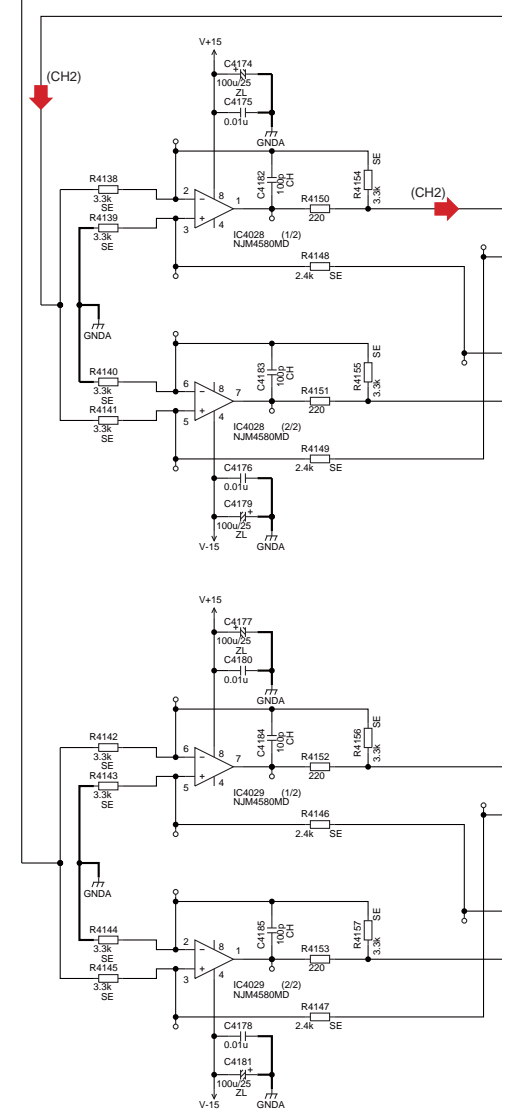
A 3/5 AUD1 ASSY (DWX2718)



AUDIO & VIDEO SIGNAL ROUTE

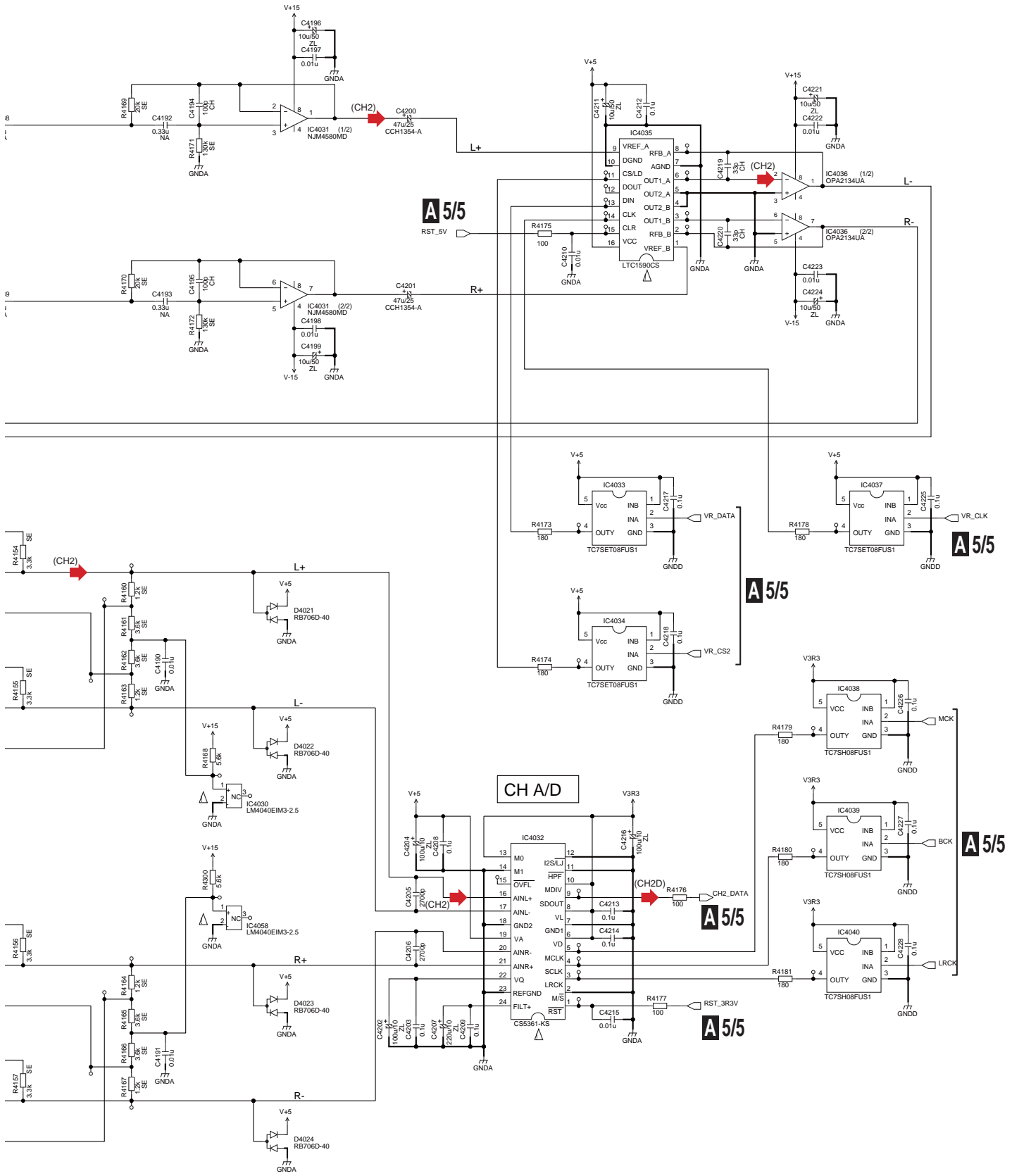
- (DVI) DVD INPUT L CH SIGNAL
- (LI) LINE INPUT L CH SIGNAL
- (CH2) CH2 L CH SIGNAL
- (CH2D) CH2 DIGITAL CH SIGNAL

A 5/5



AUDIO INPUT CH2

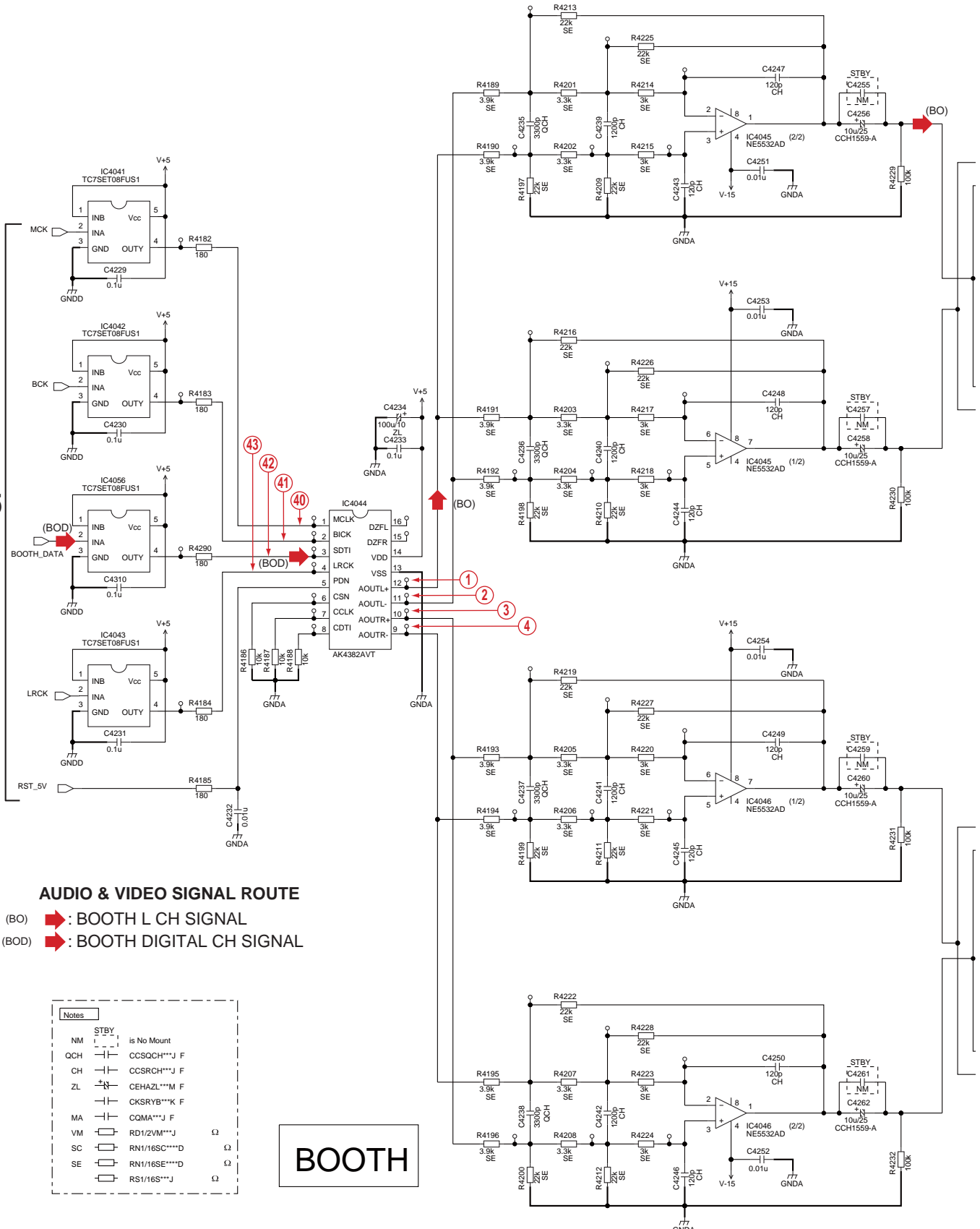
Notes	
NM	is No Mount
CH	CCSRCH***J F
ZL	CEHAZL***M F
LA	CFTLA***J F
NA	CFTNA***J F
MA	CKSRB***K F
MA	CQMA***J F
SE	RN1/16SE***D Ω
SE	RS1/16S***J Ω



SVM-1000

10.4 AUD1 ASSY (4/5)

A 4/5 AUD1 ASSY (DWX2718)

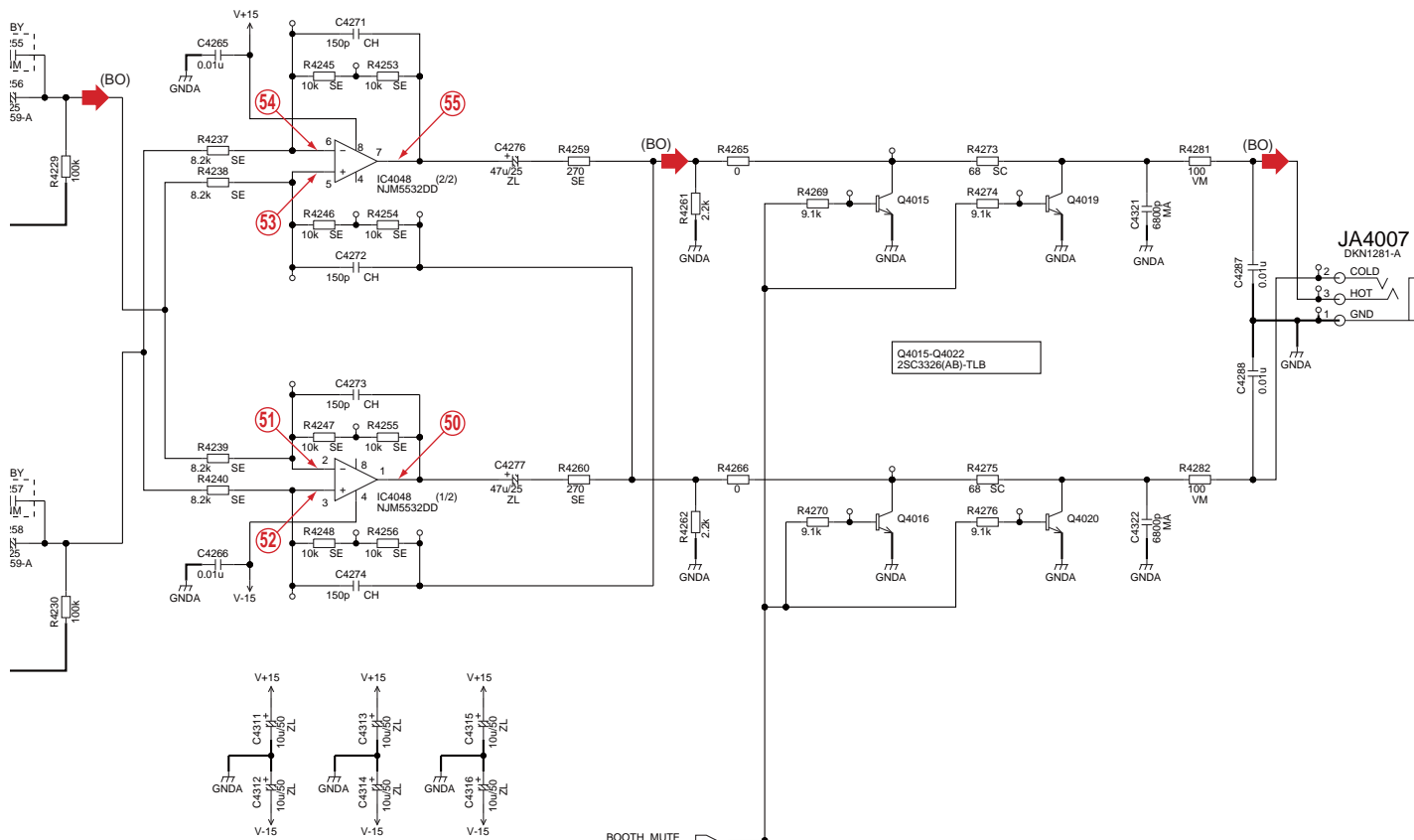


AUDIO & VIDEO SIGNAL ROUTE

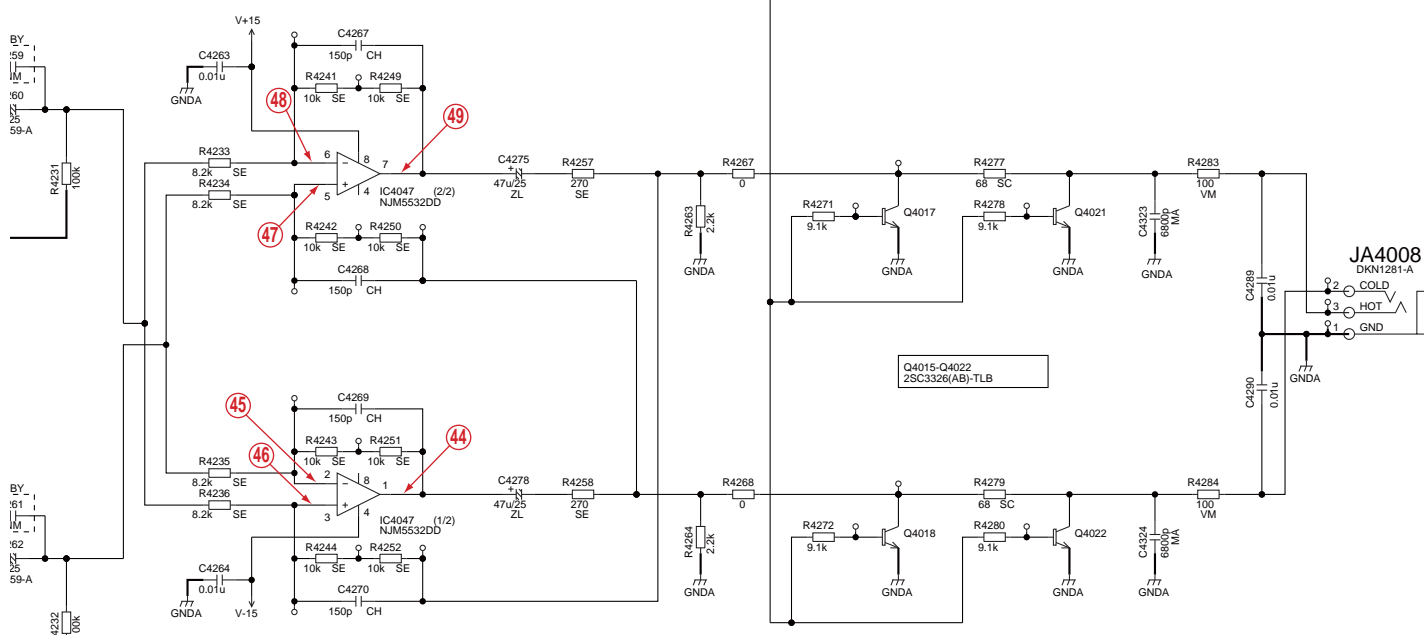
- (BO) ➔ BOOTH L CH SIGNAL
- (BOD) ➔ BOOTH DIGITAL CH SIGNAL

Notes	
NM	is No Mount
QCH	CCSQCH**J F
CH	CCSRCH**J F
ZL	CEHAZL**M F
	CKSRYB**K F
MA	CQMA**J F
VM	RD1/2VM**J F
SC	RN1/16SC**D
SE	RN1/16SE**D
	RS1/16S**J

BOOTH



BOOTH_MUTE
A 5/5



SVM-1000

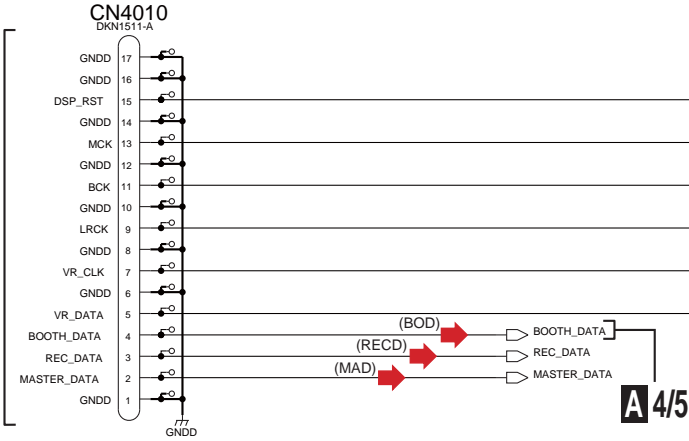
A 4/5

10.5 AUD1 ASSY (5/5)

A 5/5 AUD1 ASSY (DWX2718)

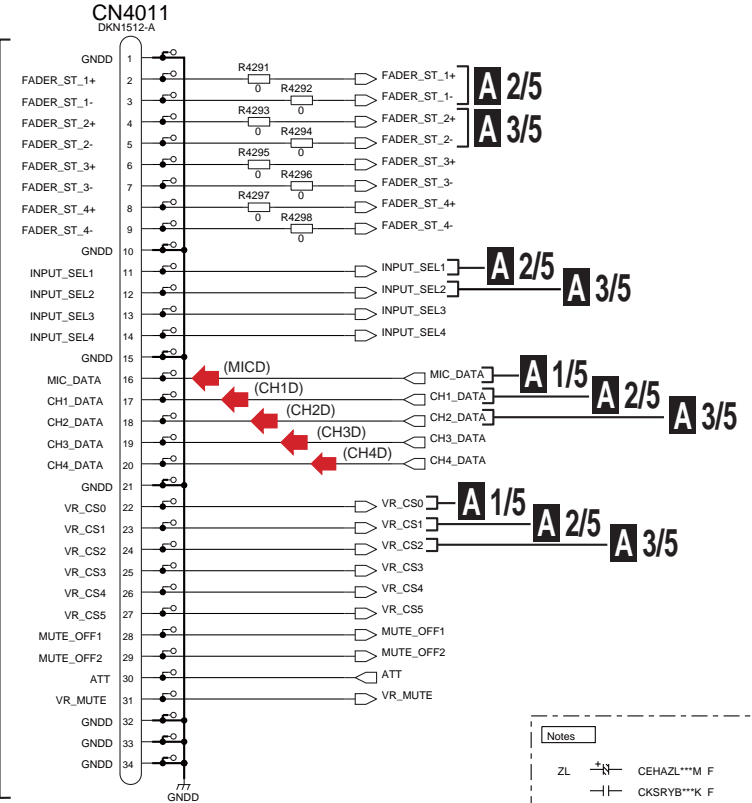
AUDIO & VIDEO SIGNAL ROUTE

- (BOD) → : BOOTH DIGITAL CH SIGNAL (CH1D) → : CH1 DIGITAL CH SIGNAL
- (RECD) → : REC DIGITAL CH SIGNAL (CH2D) → : CH2 DIGITAL CH SIGNAL
- (MAD) → : MASTER DIGITAL CH SIGNAL (CH3D) → : CH3 DIGITAL CH SIGNAL
- (MICD) → : MIC DIGITAL CH SIGNAL (CH4D) → : CH4 DIGITAL CH SIGNAL



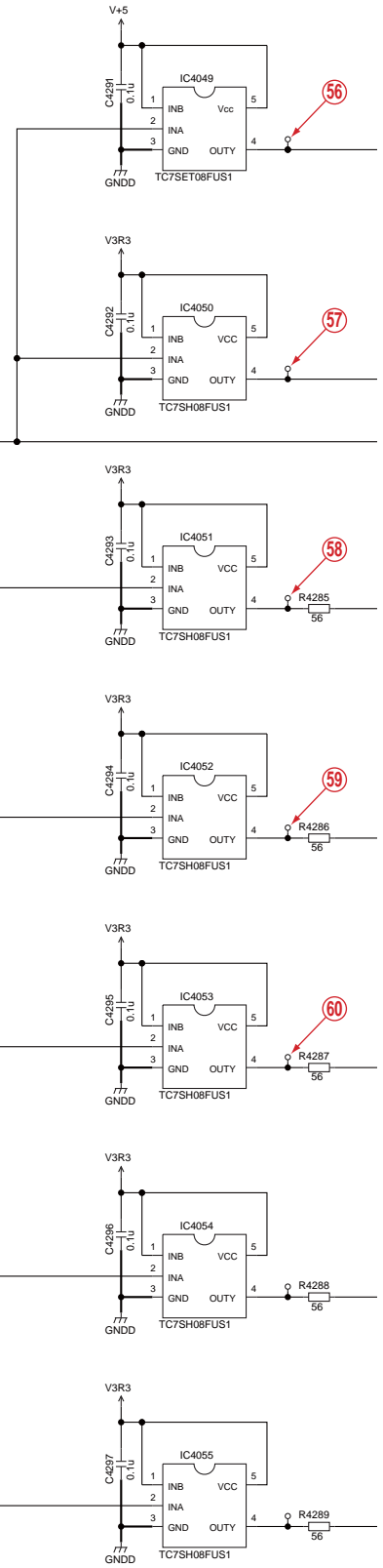
G 8/9 CN1015

A 4/5

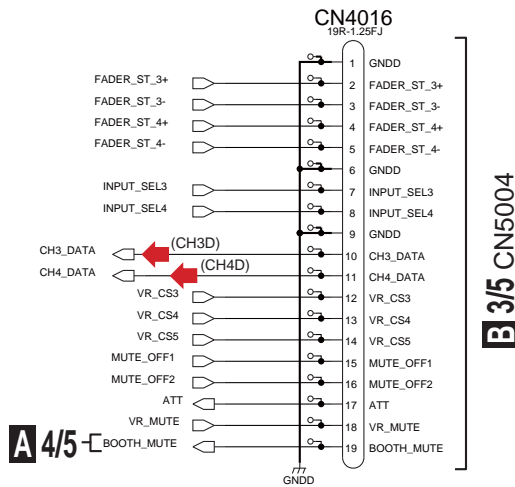
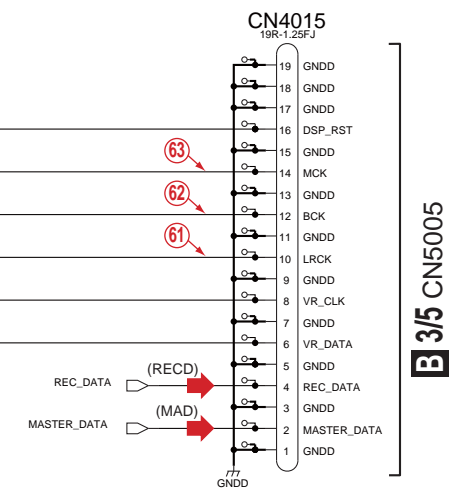
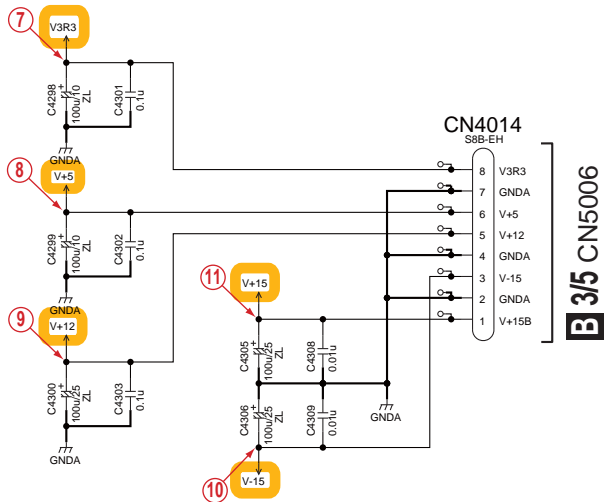
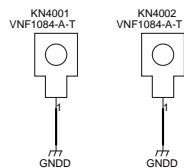
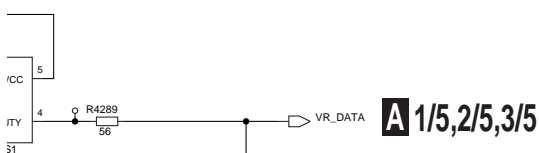
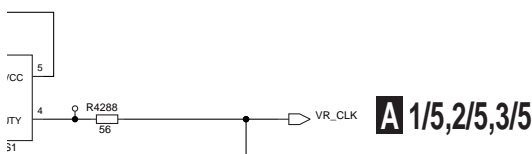
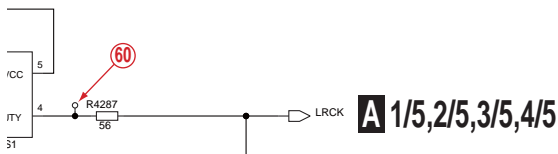
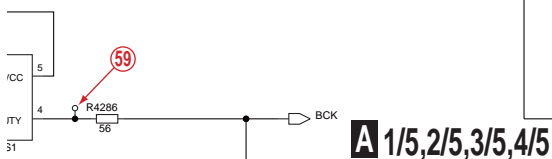
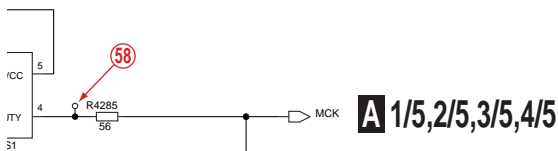
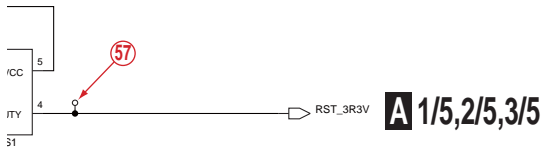
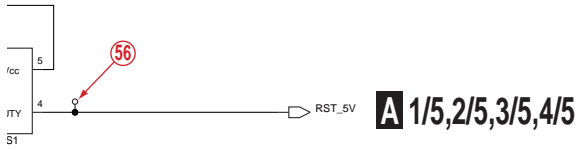


G 8/9 CN1003

Notes	
ZL	CEHAZL***M F
	CKSRYB***K F
	RS1/16S***J



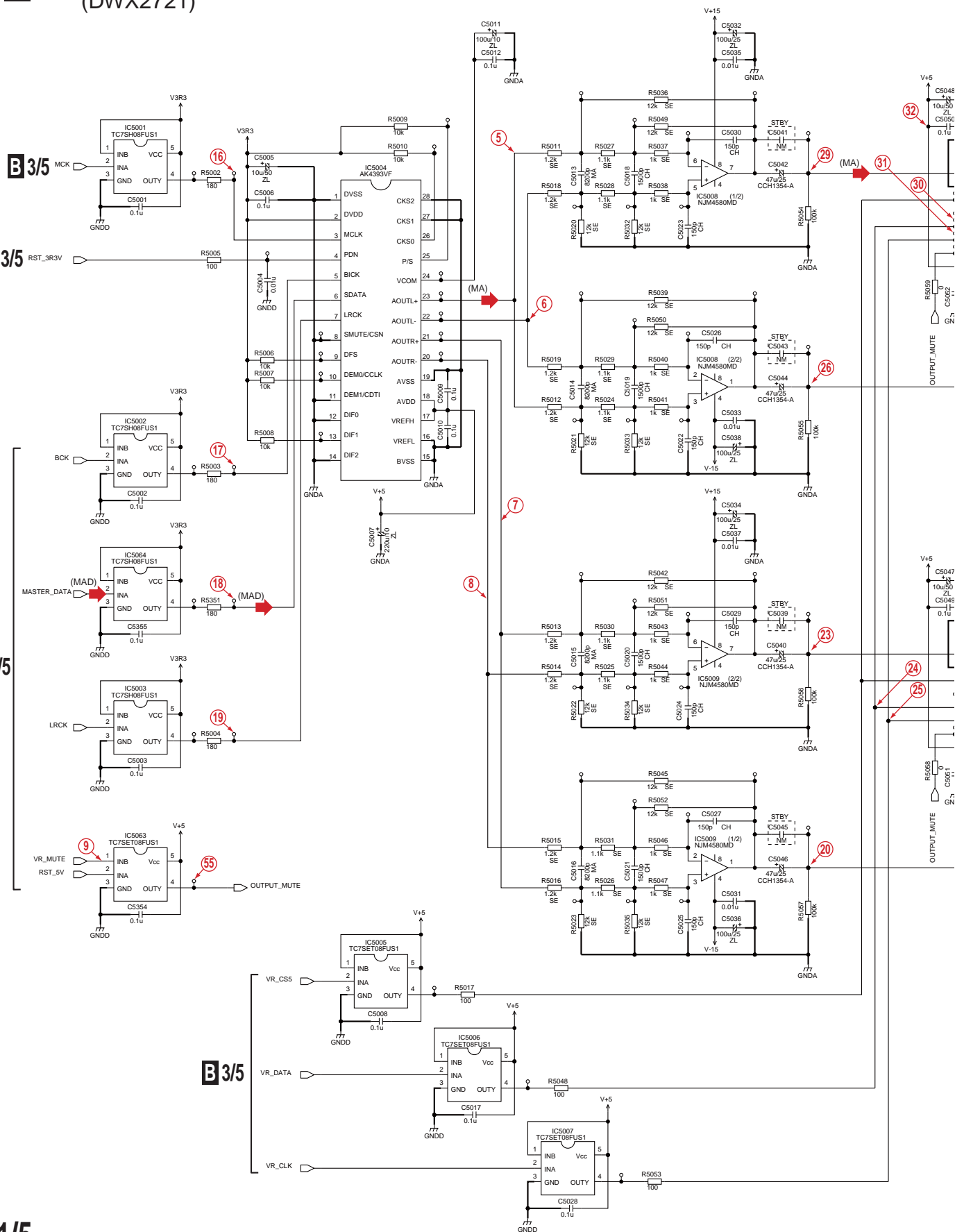
A 5/5



10.6 AUD2 ASSY (1/5)

B 1/5 AUD2 ASSY (DWX2721)

A
B
C
D
E
F

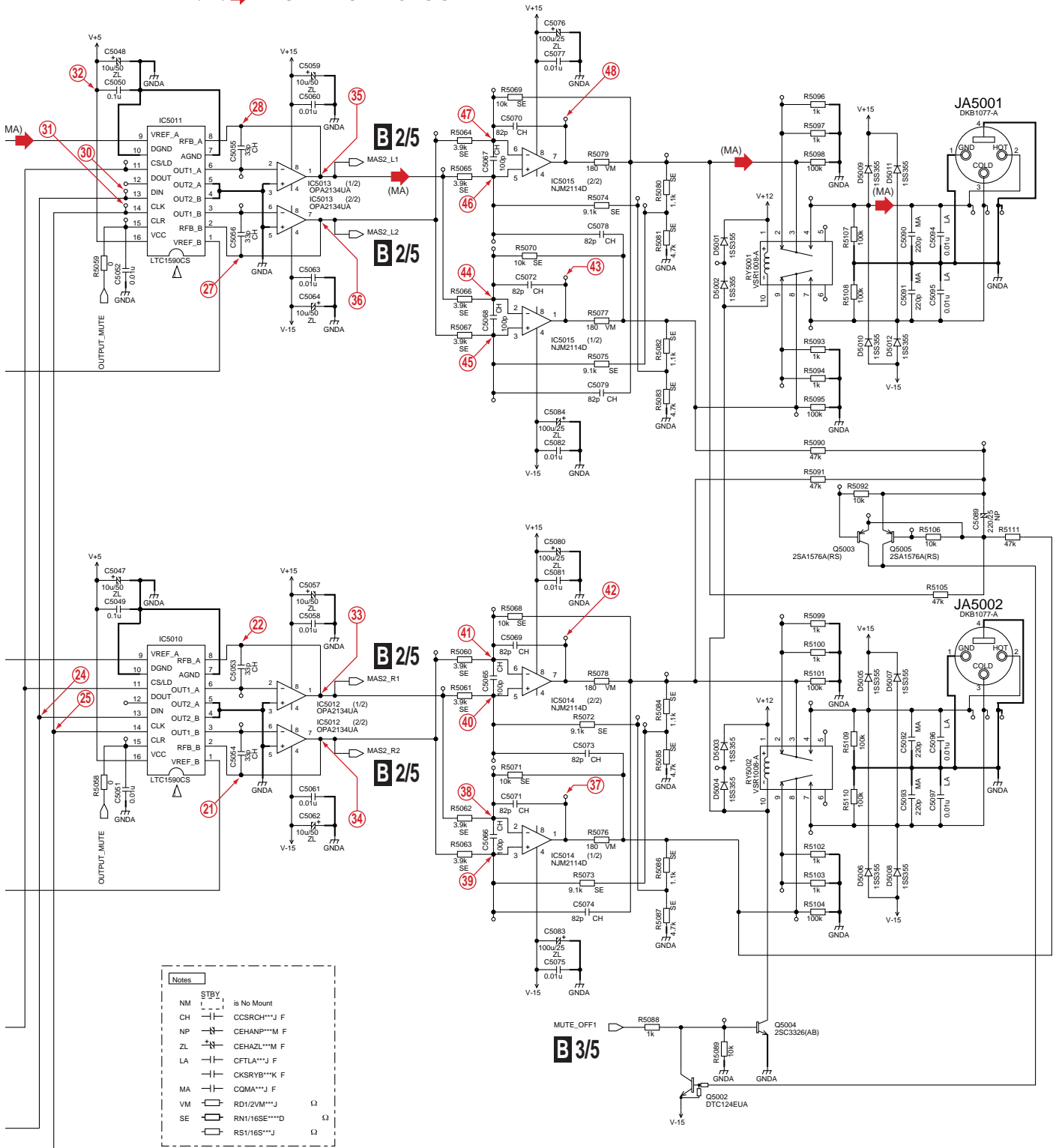


B 1/5

1 2 3 4

AUDIO & VIDEO SIGNAL ROUTE

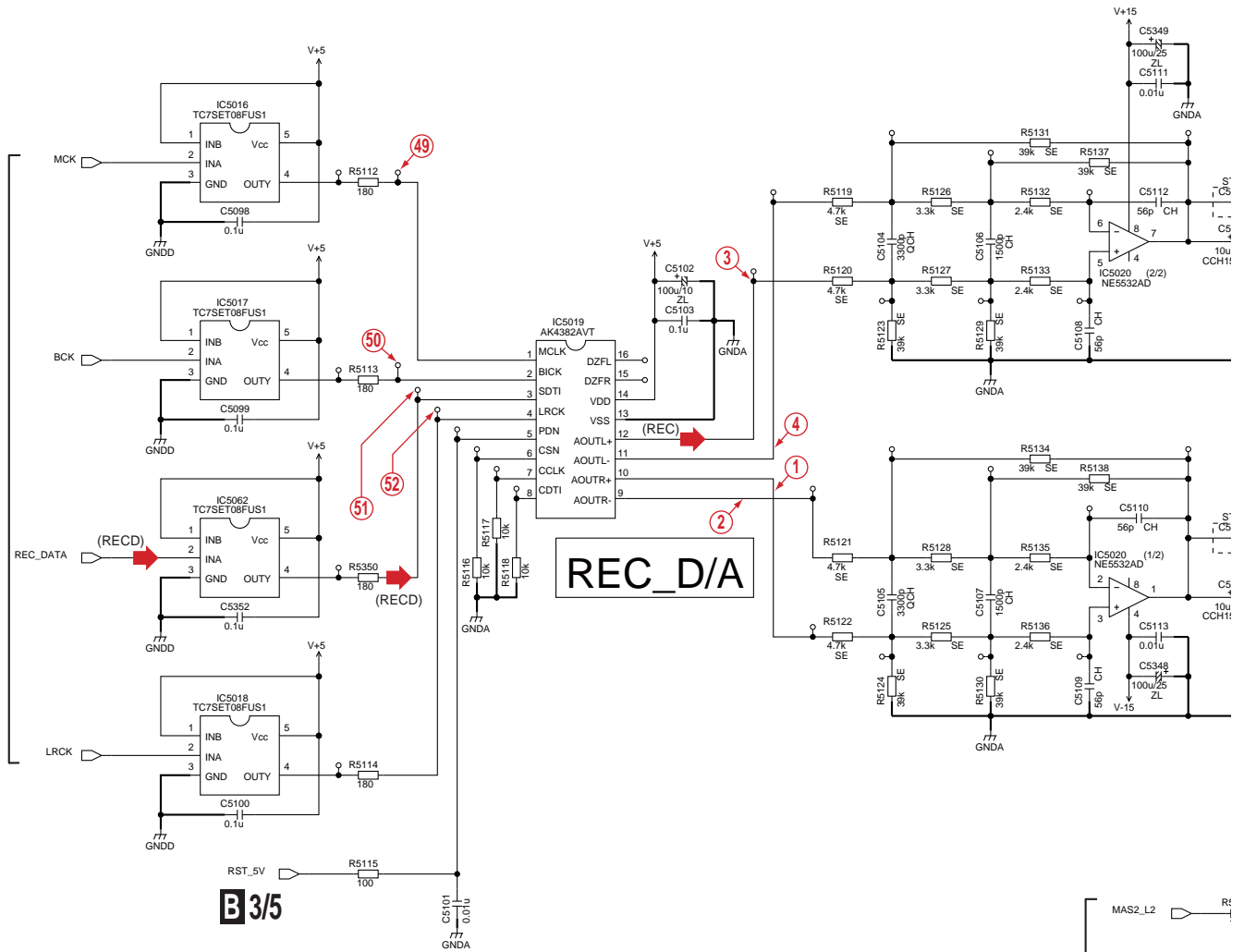
(MA) → : MASTER L CH SIGNAL
 (MAD) → : MASTER DIGITAL CH SIGNAL



Notes	
NM	is No Mount
CH	CCSRCH***J F
NP	CEHANP***M F
ZL	CEHAZL***M F
LA	CFTLA***J F
MA	CKSRVB***K F
VM	CQMA***J F
SE	RD1/16SE***D Ω
	RS1/16S***J Ω

10.7 AUD2 ASSY (2/5)

B 2/5 AUD2 ASSY (DWX2721)



AUDIO & VIDEO SIGNAL ROUTE

- (REC) → REC L CH SIGNAL
- (RECD) → REC DIGITAL CH SIGNAL
- (MA) → MASTER L CH SIGNAL

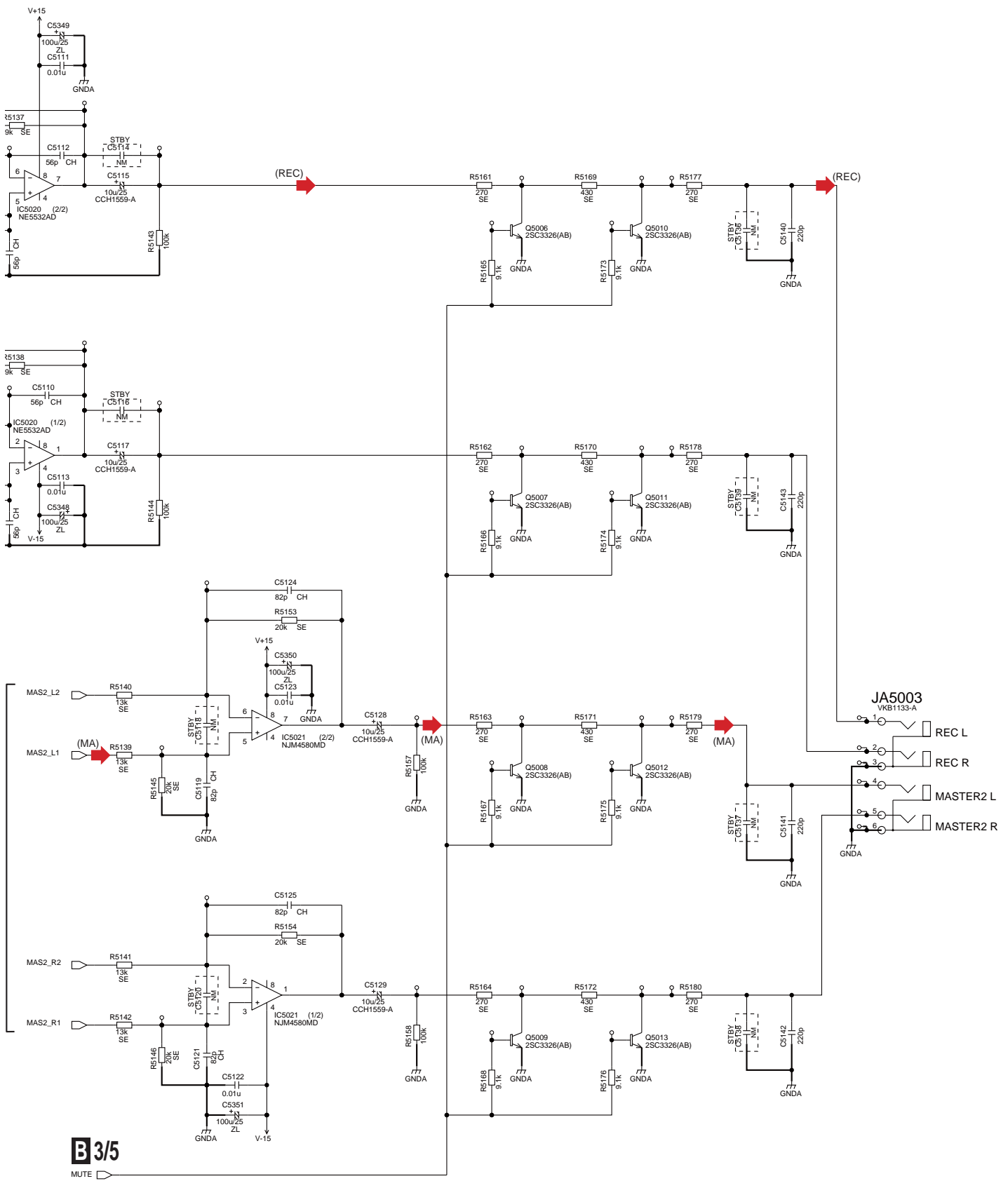
Notes	
NM	STBY is No Mount
QCH	CCSQCH**J F
CH	CCSRCH**J F
ZL	CEHAZL**M F
SE	RN1/16SE**D Ω
	RS1/16S**J Ω



B 1/5

B 3/5 MUTE

A
B
C
D
E
F



B 3/5
MUTE

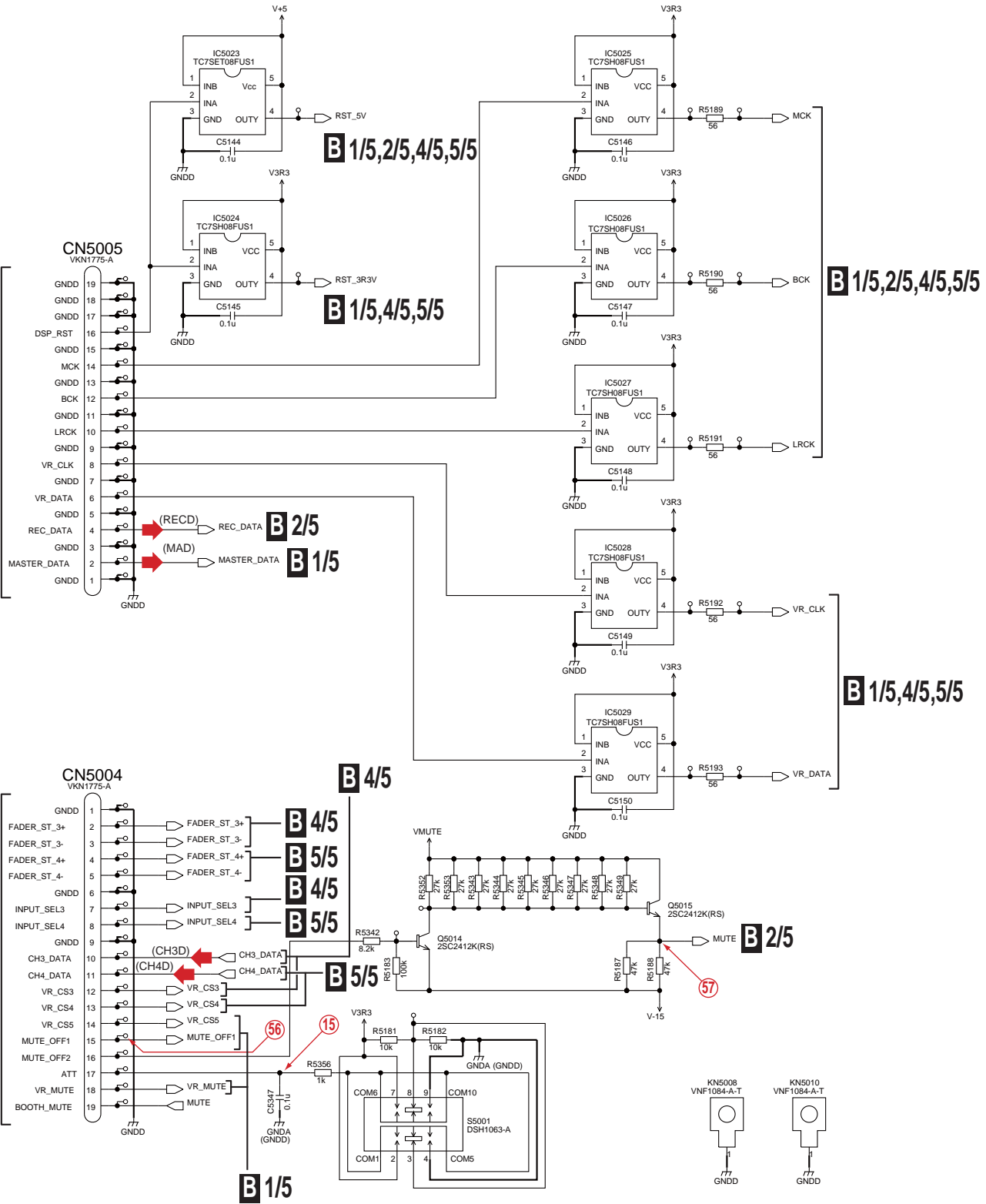
10.8 AUD2 ASSY (3/5)

B 3/5 AUD2 ASSY (DWX2721)

A
B
C
D
E
F

A5/5 CN4015

A5/5 CN4016



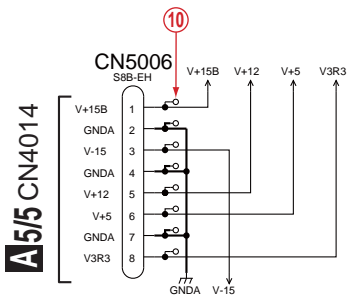
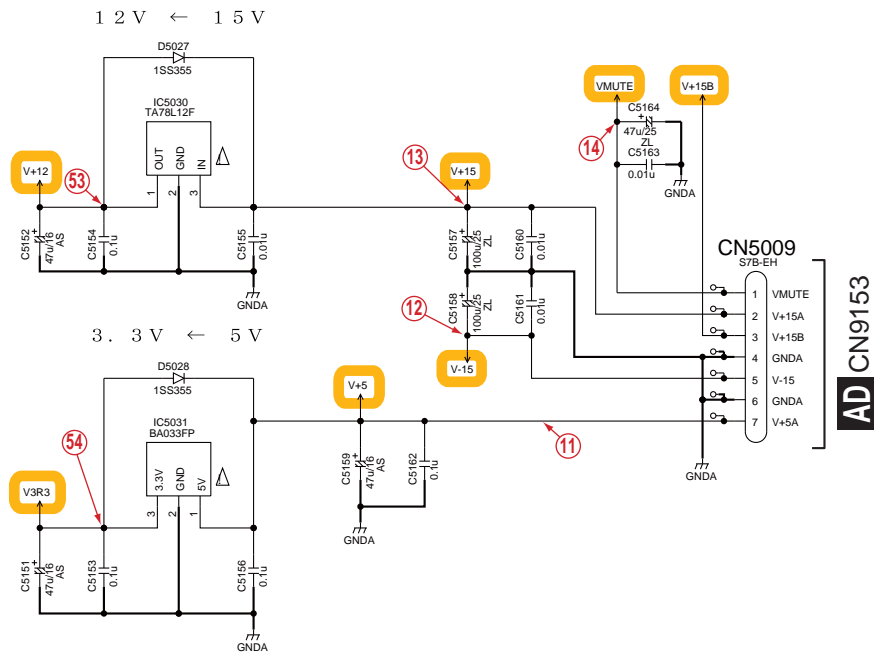
B 3/5

AUDIO & VIDEO SIGNAL ROUTE

- (RECD) ➔ : REC DIGITAL CH SIGNAL
- (MAD) ➔ : MASTER DIGITAL CH SIGNAL
- (CH3D) ➔ : CH3 DIGITAL CH SIGNAL
- (CH4D) ➔ : CH4 DIGITAL CH SIGNAL

15,5/5

5,5/5



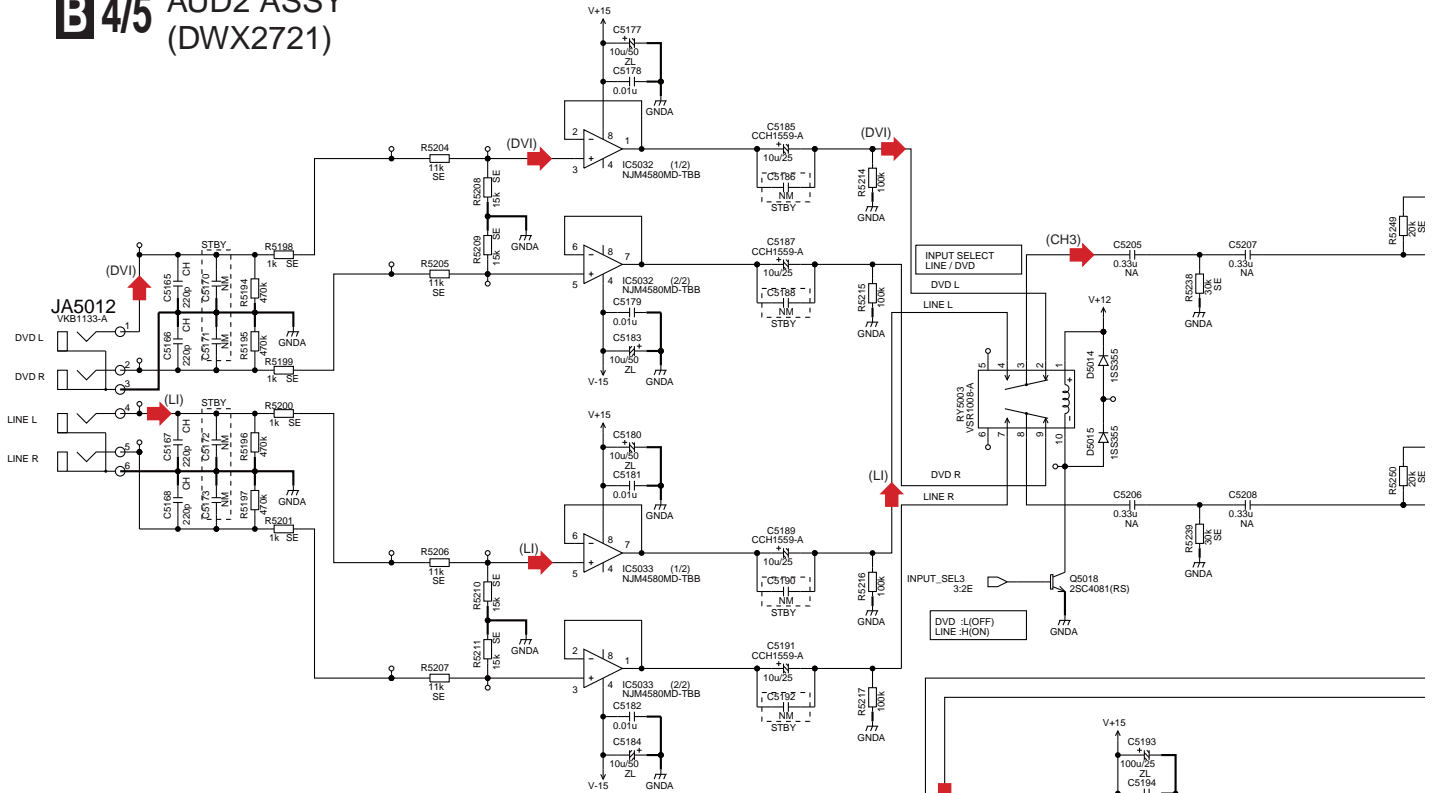
Notes	
NM	STBY is No Mount
AS	CEHAS***M F
ZL	CEHAZL***M F
	CKSRYB***K F
	RS1/16S***J Ω

A5/5 CN4014

AD CN9153

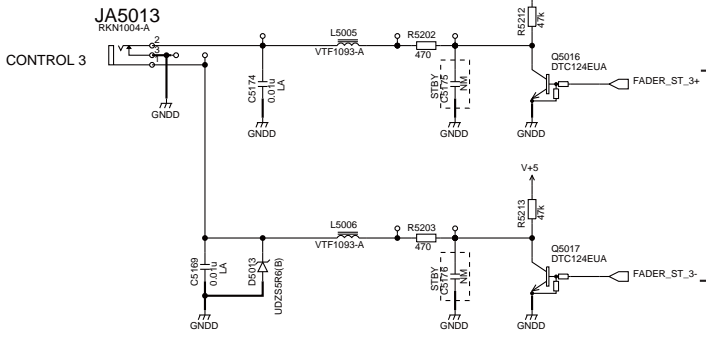
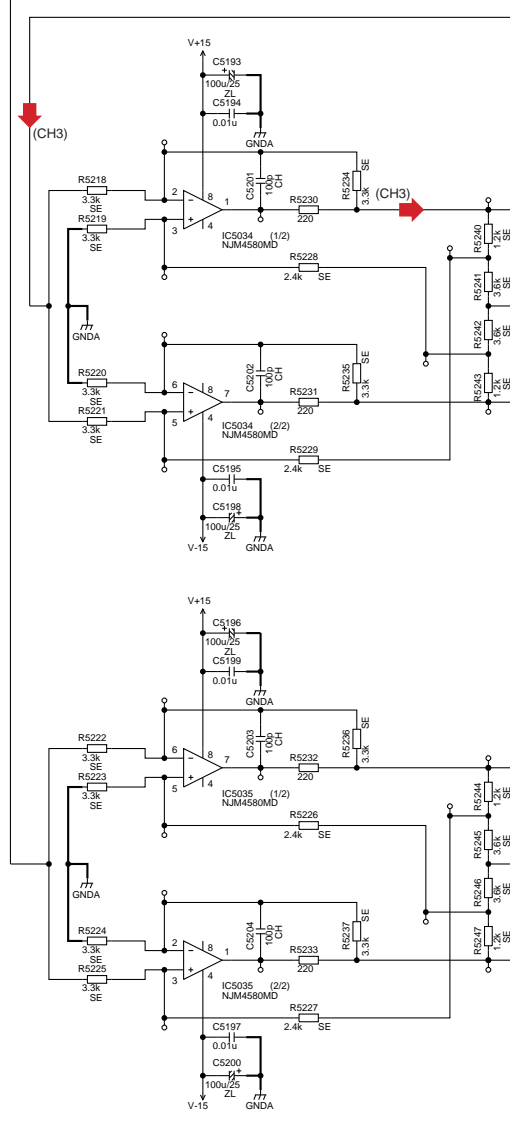
10.9 AUD2 ASSY (4/5)

B 4/5 AUD2 ASSY (DWX2721)



- AUDIO & VIDEO SIGNAL ROUTE**
- (LI) ➔ LINE INPUT L CH SIGNAL
 - (DVI) ➔ DVD INPUT L CH SIGNAL
 - (CH3) ➔ CH3 L CH SIGNAL
 - (CH3D) ➔ CH3 DIGITAL CH SIGNAL

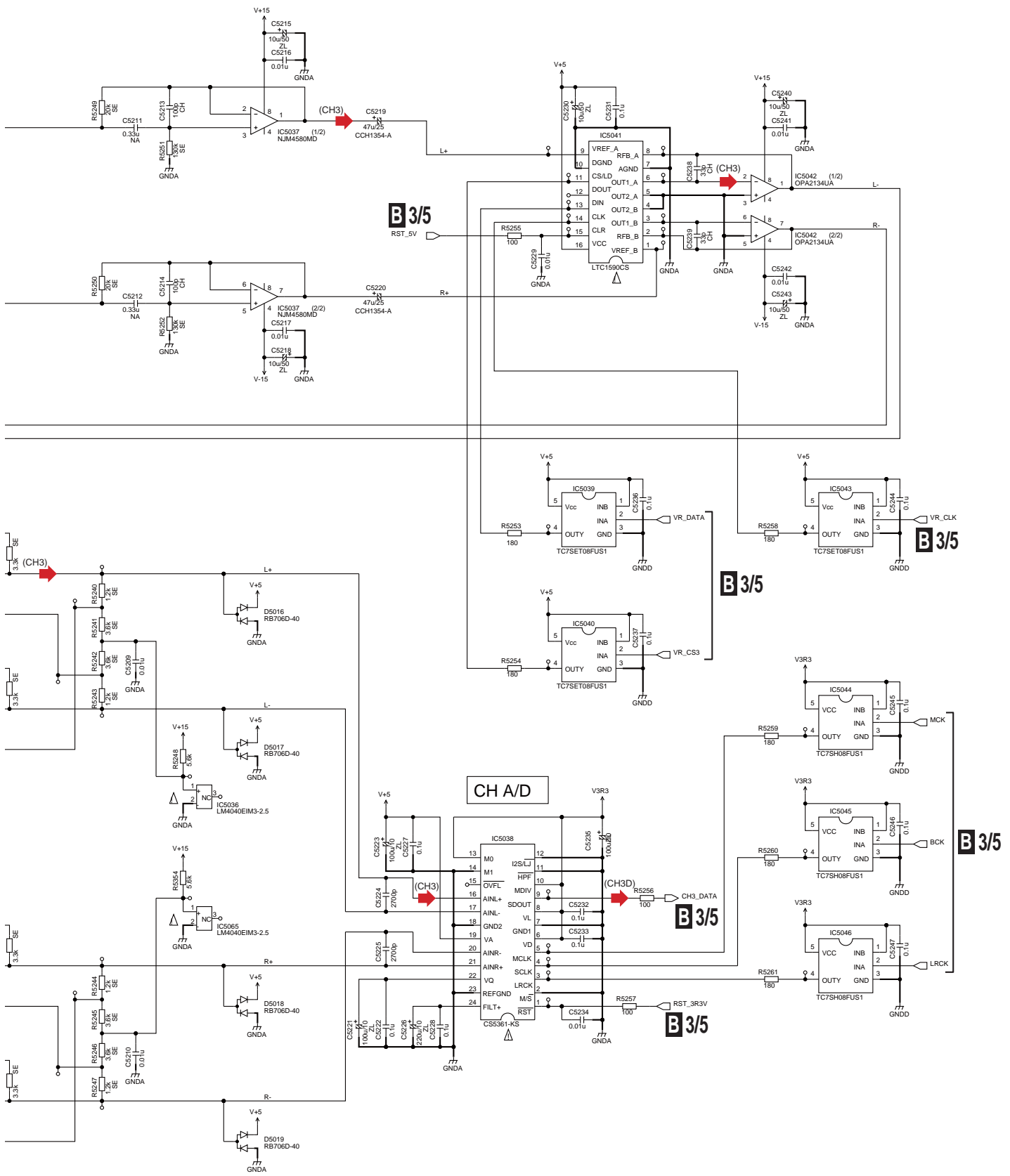
Notes	
NM	STBY is No Mount
CH	CCSRCH***J F
ZL	CEHAZL***M F
LA	CFTLA***J F
NA	CFTNA***J F
	CKSRBYB**K F
SE	RN1/16SE***D Ω
	RS1/16S***J Ω



AUDIO INPUT CH3

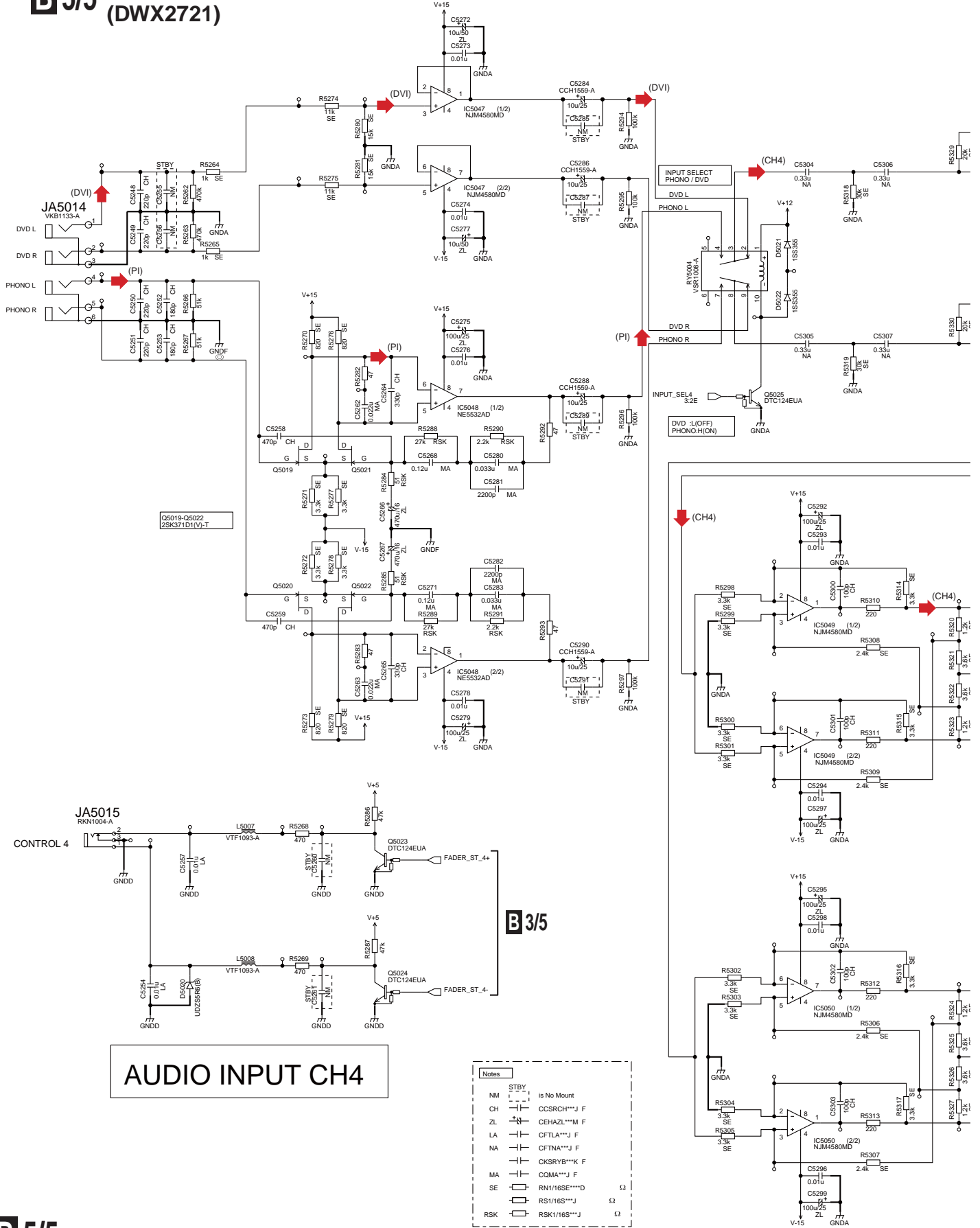
B 3/5

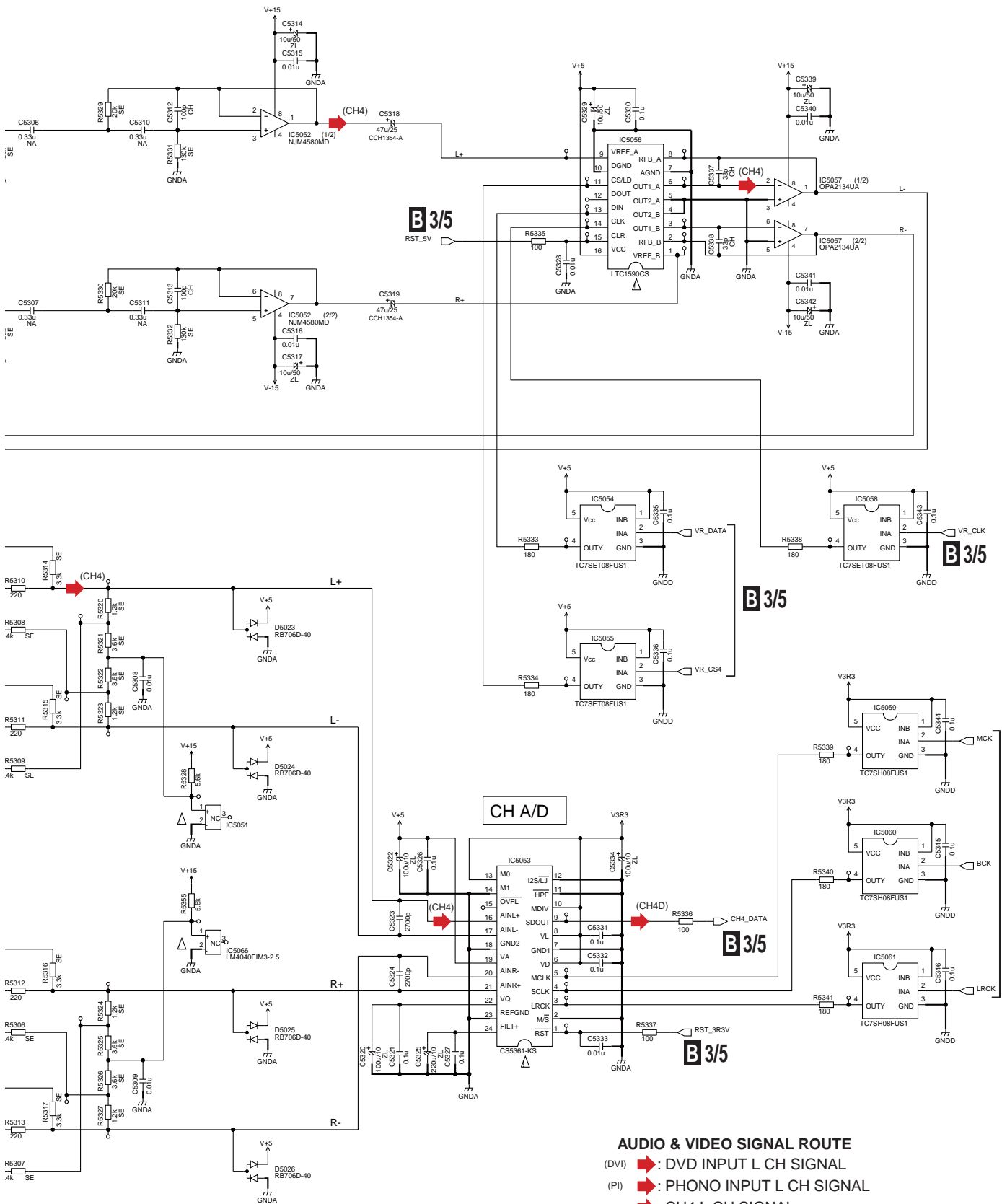
A
B
C
D
E
F



10.10 AUD2 ASSY (5/5)

B 5/5 AUD2 ASSY (DWX2721)





- AUDIO & VIDEO SIGNAL ROUTE**
- (DVI) ➡ : DVD INPUT L CH SIGNAL
 - (PI) ➡ : PHONO INPUT L CH SIGNAL
 - (CH4) ➡ : CH4 L CH SIGNAL
 - (CH4D) ➡ : CH4 DIGITAL CH SIGNAL

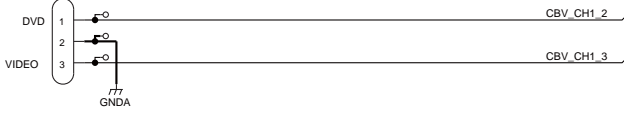
10.11 VIO1 ASSY

C VIO1 ASSY (DWX2731)

A

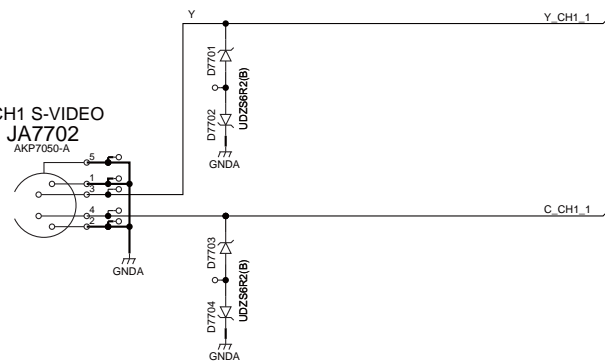
CH1 VIDEO INPUT

CH1 COMPOSITE JA7701 VKB1123-A



B

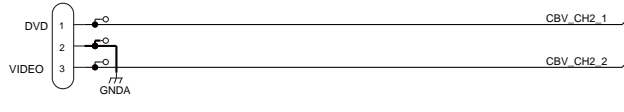
CH1 S-VIDEO JA7702 AKP7050-A



C

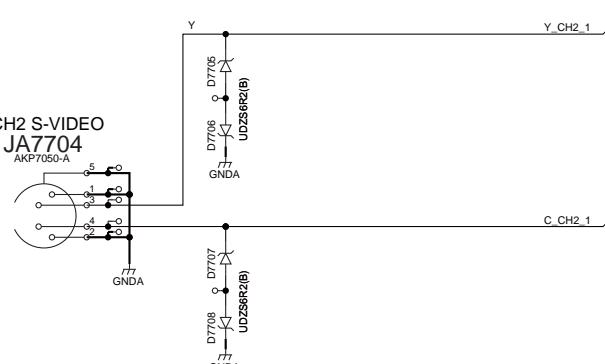
CH2 VIDEO INPUT

CH2 COMPOSITE JA7703 VKB1123-A



D

CH2 S-VIDEO JA7704 AKP7050-A



E

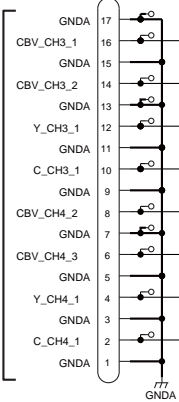
C

(VI)



TO VIO2 CN8005

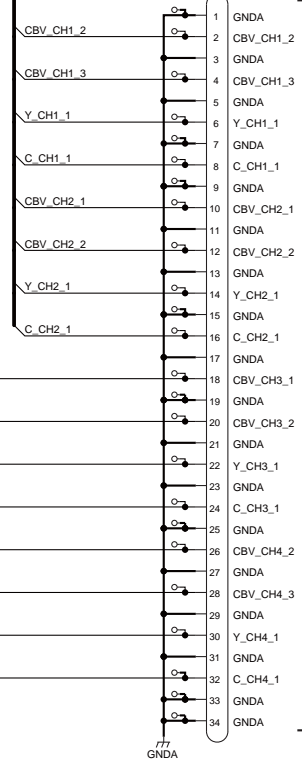
CN7705 VKN1248-A



F CN8005

TO MAIN CN1010

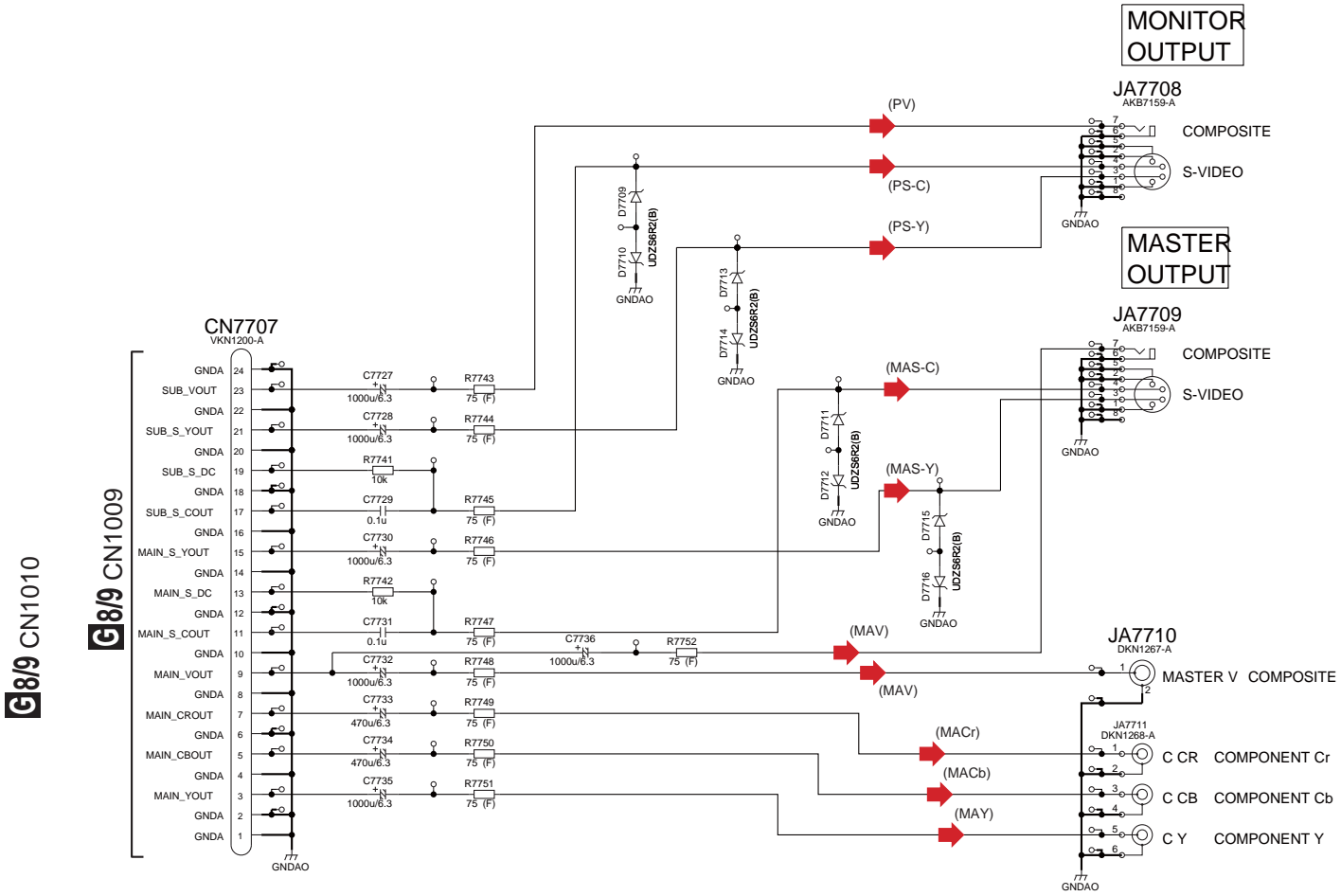
CN7706 VKN2004-A



G8/9 CN1010

G8/9 CN1009





AUDIO & VIDEO SIGNAL ROUTE

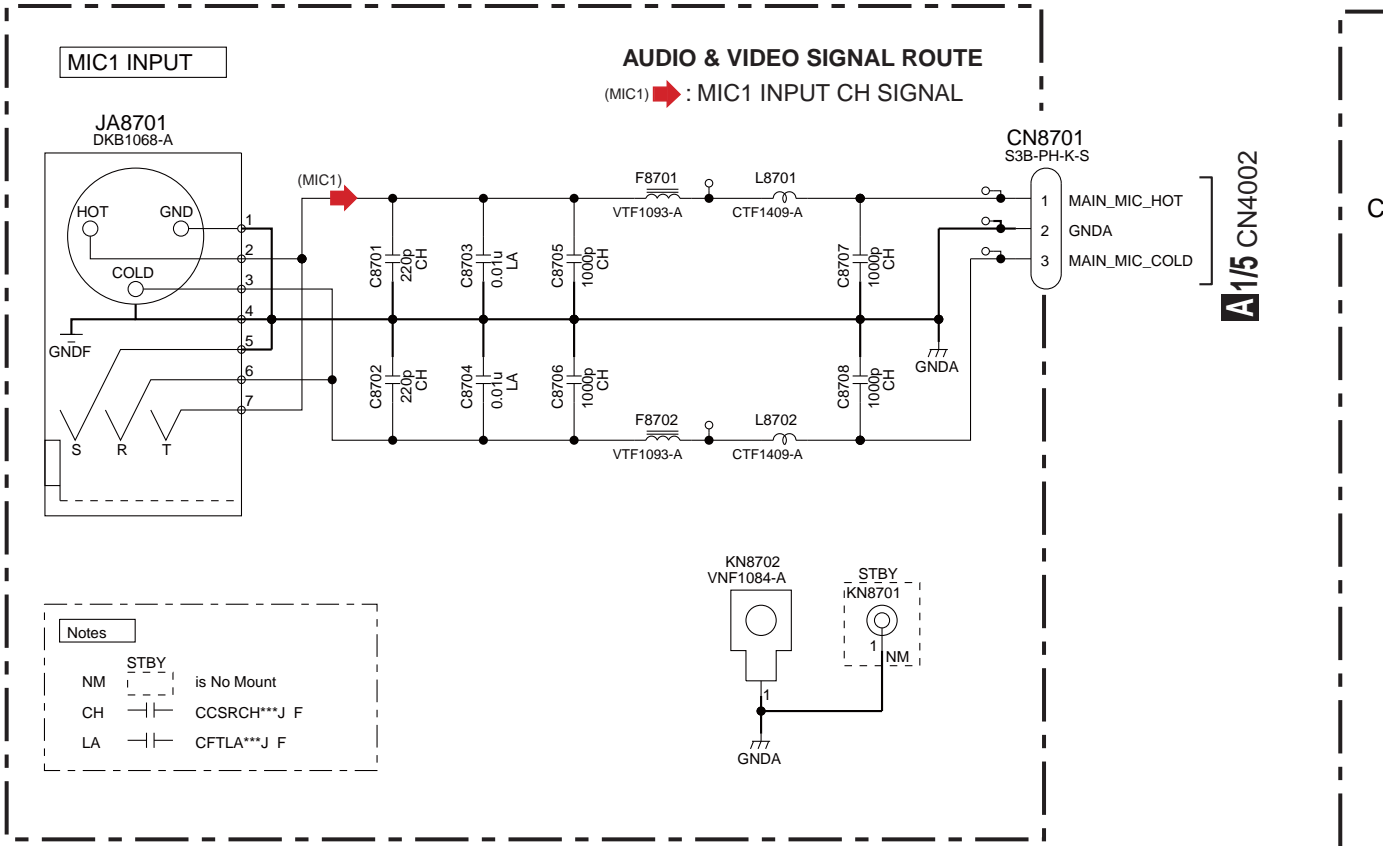
- (VI) : VIDEO IN SIGNAL
- (PV) : PREVIEW VIDEO OUT SIGNAL
- (PS-C) : PREVIEW S-VIDEO OUT C SIGNAL
- (PS-Y) : PREVIEW S-VIDEO OUT Y SIGNAL
- (MAS-C) : MASTER S-VIDEO OUT C SIGNAL
- (MAS-Y) : MASTER S-VIDEO OUT Y SIGNAL
- (MAV) : MASTER VIDEO OUT SIGNAL
- (MACr) : MASTER OUT Cr SIGNAL
- (MACb) : MASTER OUT Cb SIGNAL
- (MAY) : MASTER OUT Y SIGNAL

Notes

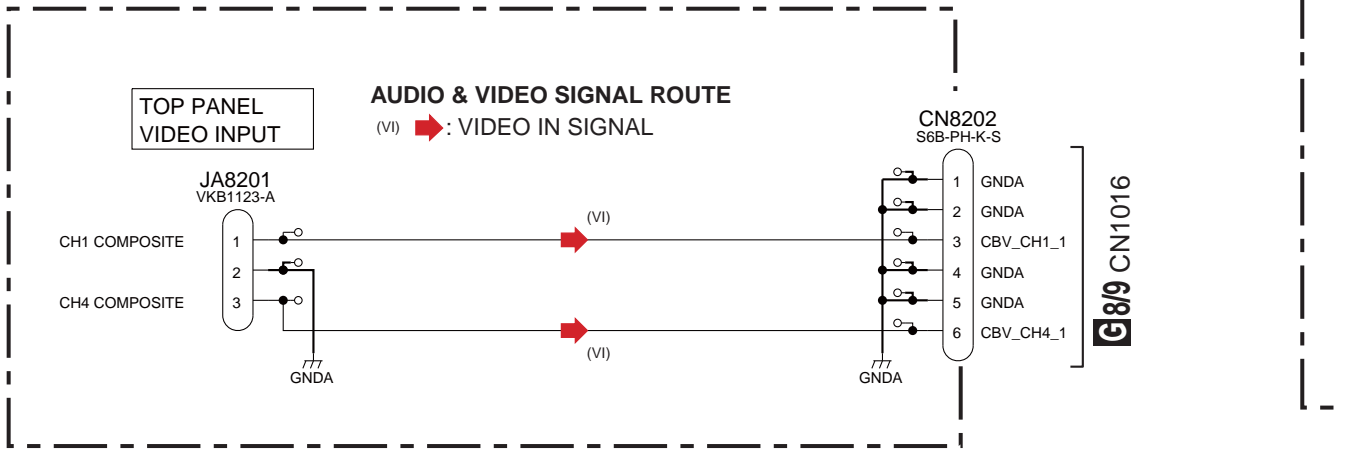
- CEAT***M F
- CKSRYB***K F
- (F) RS1/16S***F Ω
- RS1/16S***J Ω

10.12 MJCK, VIN3 and VIO2 ASSYS

D MJCK ASSY (DWX2738)

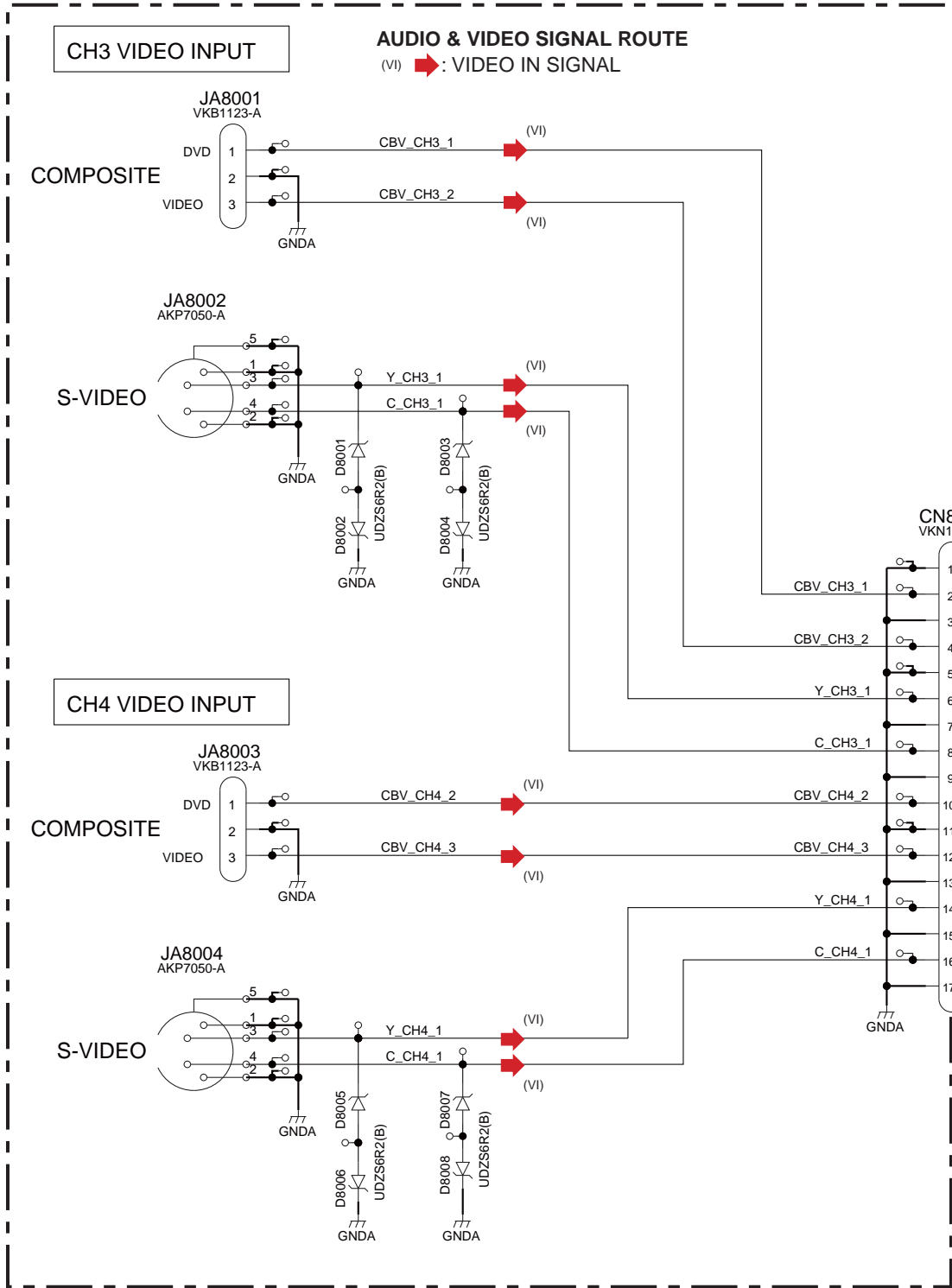


E VIN3 ASSY (DWX2733)



F VIO2 ASSY
(DWX2732)

A1/5 CN4002



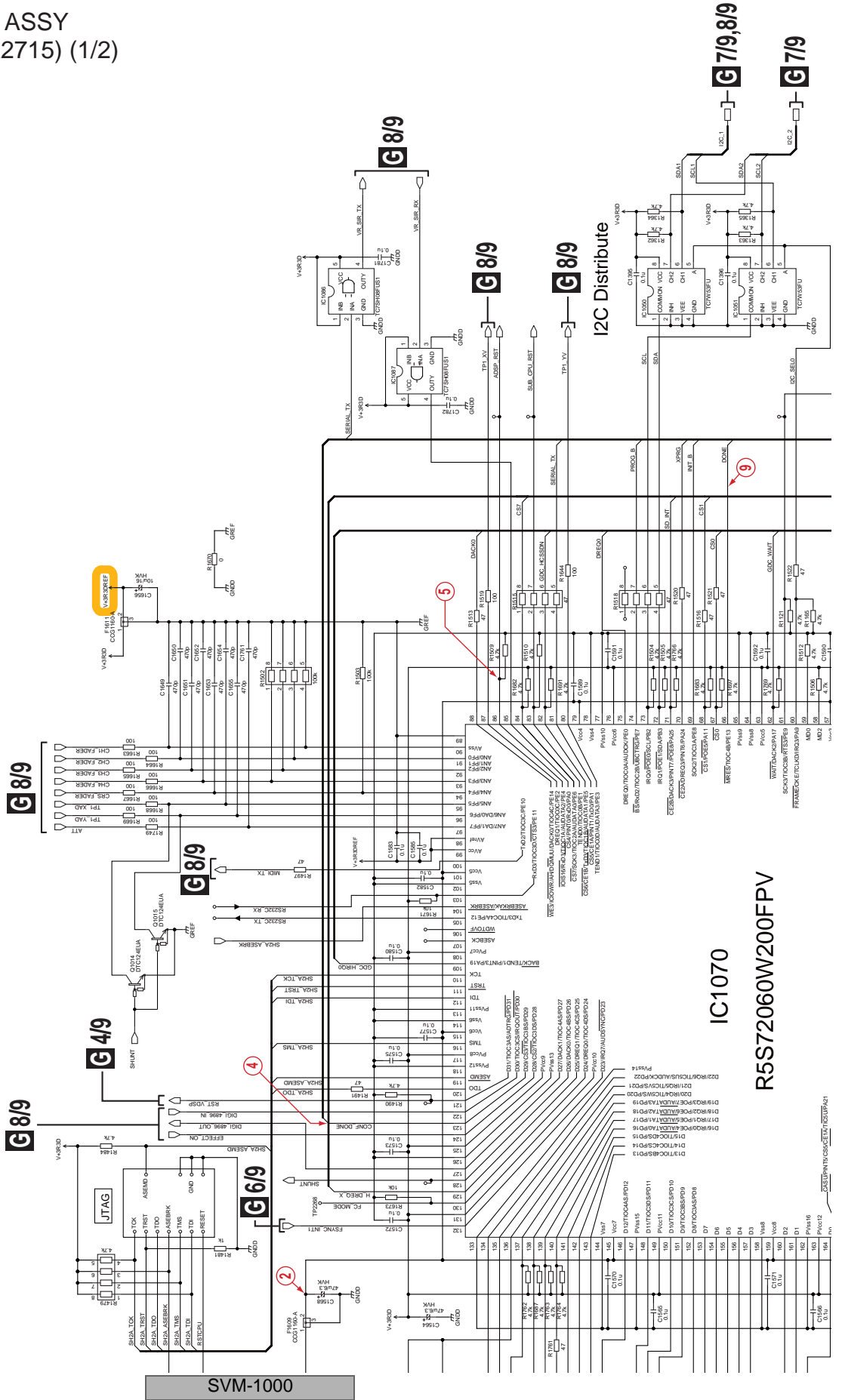
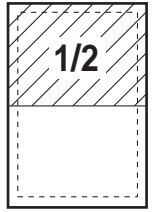
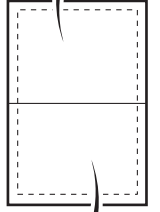
C CN7705

A
B
C
D
E
F

10.13 MAIN ASSY (1/9)

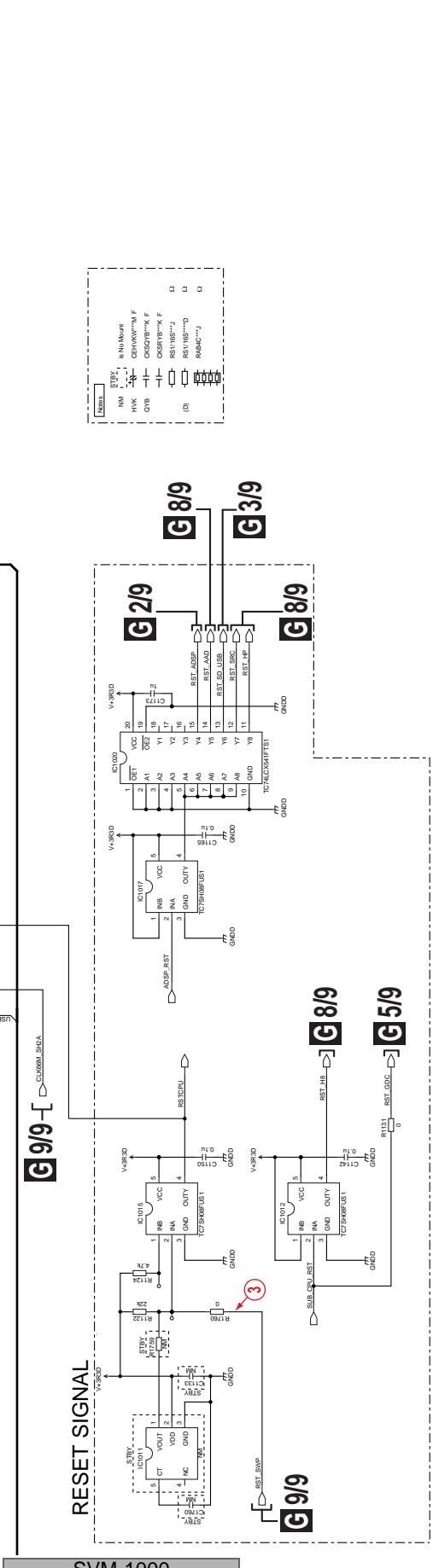
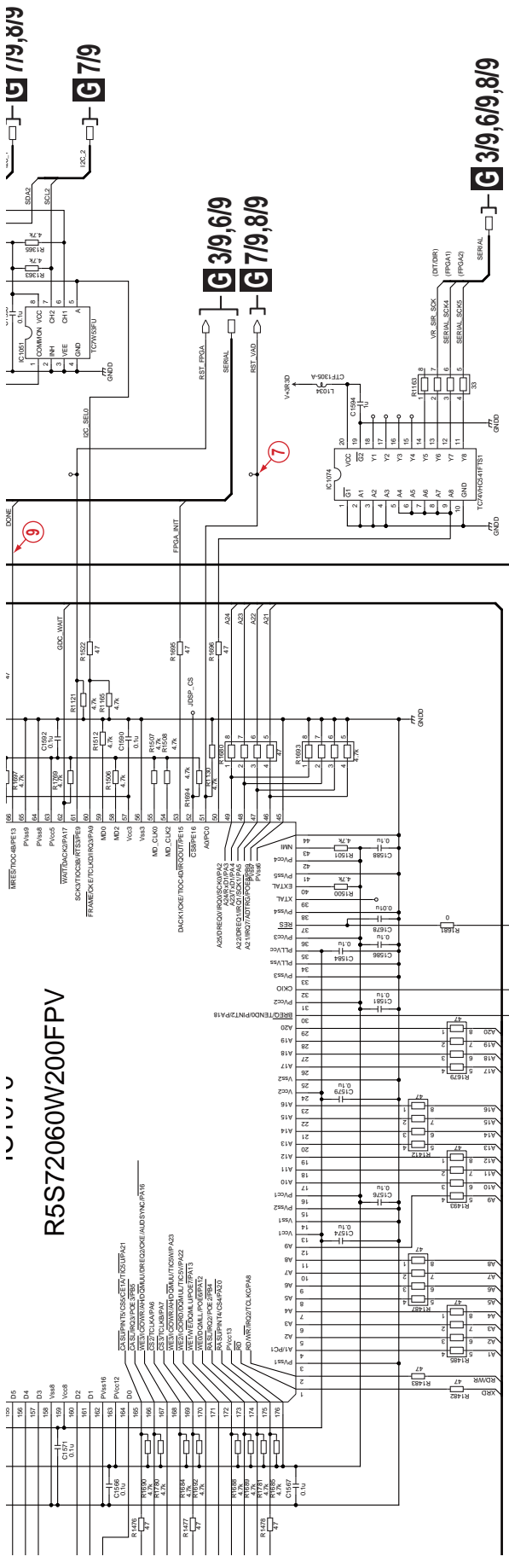
G 1/9 MAIN ASSY (DWX2715) (1/2)

Large size SCH diagram



IC1070
R5S72060W200FPV

G 1/9



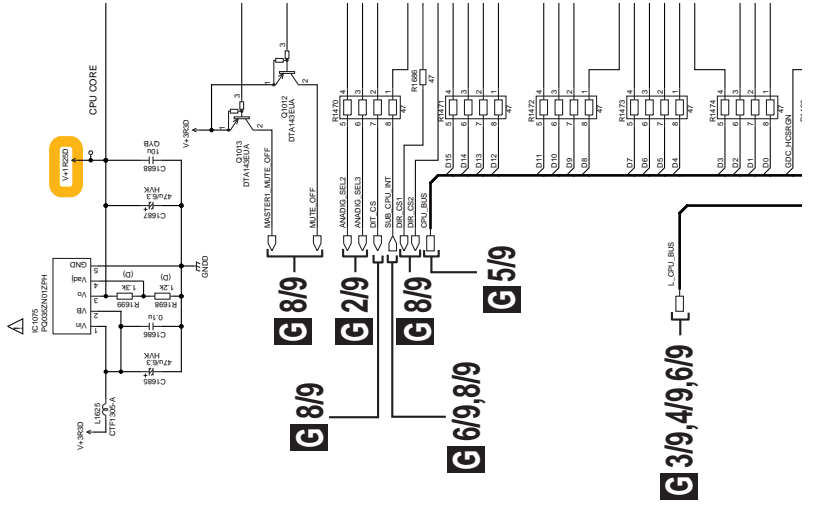
NAME	TYPE	VALUE
NM	TYPE	8: NO MARK
HVK	TYPE	0805/0806/0807/0808/0809/0810/0811/0812/0813/0814/0815/0816/0817/0818/0819/0820/0821/0822/0823/0824/0825/0826/0827/0828/0829/0830/0831/0832/0833/0834/0835/0836/0837/0838/0839/0840/0841/0842/0843/0844/0845/0846/0847/0848/0849/0850/0851/0852/0853/0854/0855/0856/0857/0858/0859/0860/0861/0862/0863/0864/0865/0866/0867/0868/0869/0870/0871/0872/0873/0874/0875/0876/0877/0878/0879/0880/0881/0882/0883/0884/0885/0886/0887/0888/0889/0890/0891/0892/0893/0894/0895/0896/0897/0898/0899/0900/0901/0902/0903/0904/0905/0906/0907/0908/0909/0910/0911/0912/0913/0914/0915/0916/0917/0918/0919/0920/0921/0922/0923/0924/0925/0926/0927/0928/0929/0930/0931/0932/0933/0934/0935/0936/0937/0938/0939/0940/0941/0942/0943/0944/0945/0946/0947/0948/0949/0950/0951/0952/0953/0954/0955/0956/0957/0958/0959/0960/0961/0962/0963/0964/0965/0966/0967/0968/0969/0970/0971/0972/0973/0974/0975/0976/0977/0978/0979/0980/0981/0982/0983/0984/0985/0986/0987/0988/0989/0990/0991/0992/0993/0994/0995/0996/0997/0998/0999/1000
OVB	TYPE	0805/0806/0807/0808/0809/0810/0811/0812/0813/0814/0815/0816/0817/0818/0819/0820/0821/0822/0823/0824/0825/0826/0827/0828/0829/0830/0831/0832/0833/0834/0835/0836/0837/0838/0839/0840/0841/0842/0843/0844/0845/0846/0847/0848/0849/0850/0851/0852/0853/0854/0855/0856/0857/0858/0859/0860/0861/0862/0863/0864/0865/0866/0867/0868/0869/0870/0871/0872/0873/0874/0875/0876/0877/0878/0879/0880/0881/0882/0883/0884/0885/0886/0887/0888/0889/0890/0891/0892/0893/0894/0895/0896/0897/0898/0899/0900/0901/0902/0903/0904/0905/0906/0907/0908/0909/0910/0911/0912/0913/0914/0915/0916/0917/0918/0919/0920/0921/0922/0923/0924/0925/0926/0927/0928/0929/0930/0931/0932/0933/0934/0935/0936/0937/0938/0939/0940/0941/0942/0943/0944/0945/0946/0947/0948/0949/0950/0951/0952/0953/0954/0955/0956/0957/0958/0959/0960/0961/0962/0963/0964/0965/0966/0967/0968/0969/0970/0971/0972/0973/0974/0975/0976/0977/0978/0979/0980/0981/0982/0983/0984/0985/0986/0987/0988/0989/0990/0991/0992/0993/0994/0995/0996/0997/0998/0999/1000
(D)	TYPE	0805/0806/0807/0808/0809/0810/0811/0812/0813/0814/0815/0816/0817/0818/0819/0820/0821/0822/0823/0824/0825/0826/0827/0828/0829/0830/0831/0832/0833/0834/0835/0836/0837/0838/0839/0840/0841/0842/0843/0844/0845/0846/0847/0848/0849/0850/0851/0852/0853/0854/0855/0856/0857/0858/0859/0860/0861/0862/0863/0864/0865/0866/0867/0868/0869/0870/0871/0872/0873/0874/0875/0876/0877/0878/0879/0880/0881/0882/0883/0884/0885/0886/0887/0888/0889/0890/0891/0892/0893/0894/0895/0896/0897/0898/0899/0900/0901/0902/0903/0904/0905/0906/0907/0908/0909/0910/0911/0912/0913/0914/0915/0916/0917/0918/0919/0920/0921/0922/0923/0924/0925/0926/0927/0928/0929/0930/0931/0932/0933/0934/0935/0936/0937/0938/0939/0940/0941/0942/0943/0944/0945/0946/0947/0948/0949/0950/0951/0952/0953/0954/0955/0956/0957/0958/0959/0960/0961/0962/0963/0964/0965/0966/0967/0968/0969/0970/0971/0972/0973/0974/0975/0976/0977/0978/0979/0980/0981/0982/0983/0984/0985/0986/0987/0988/0989/0990/0991/0992/0993/0994/0995/0996/0997/0998/0999/1000

SVM-1000

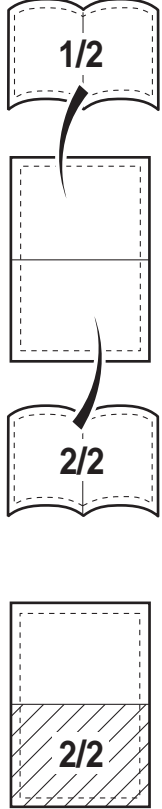


G 1/9 MAIN ASSY (DWX2715) (2/2)

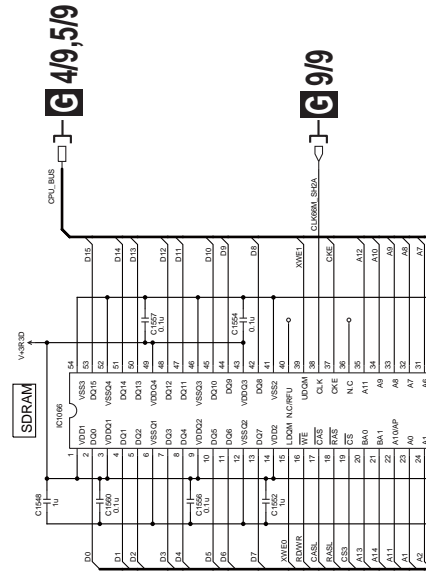
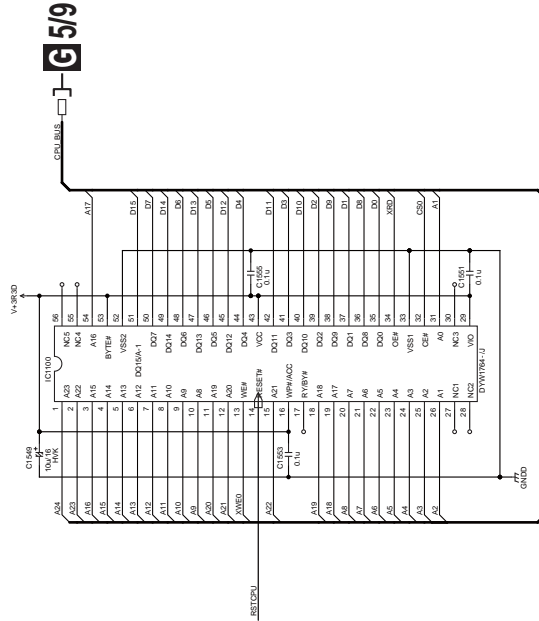
D +1.25V (0.2A)

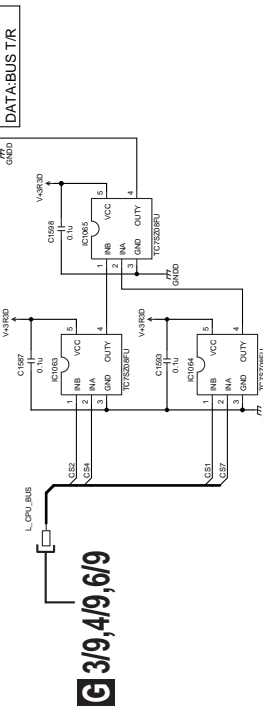
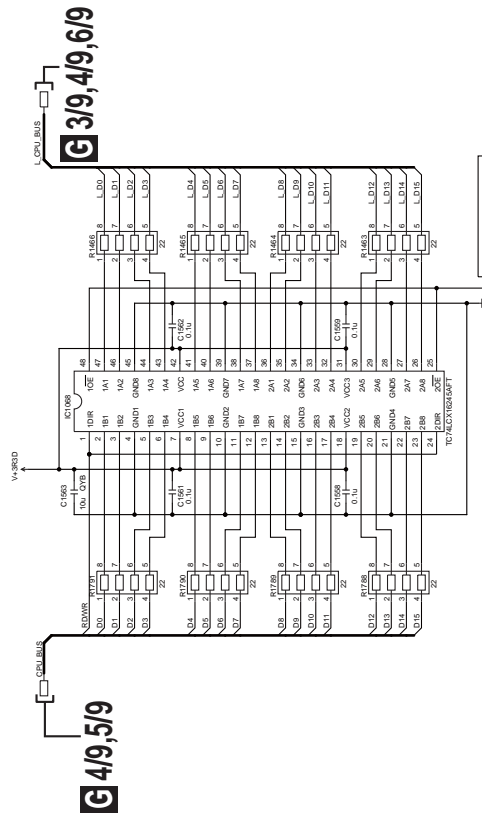
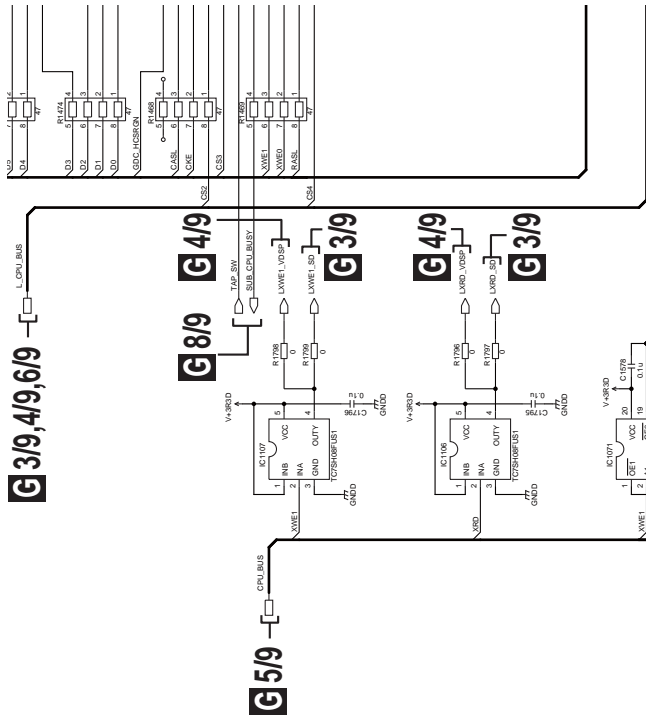
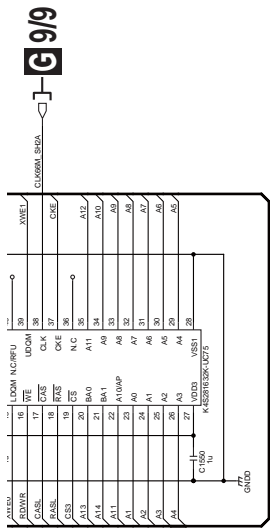


Large size SCH diagram



MAIN CPU/RESET

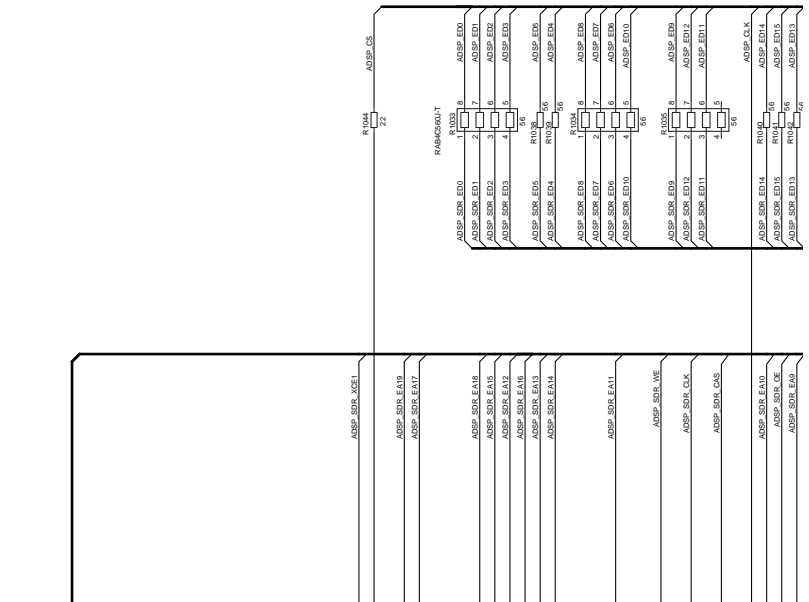
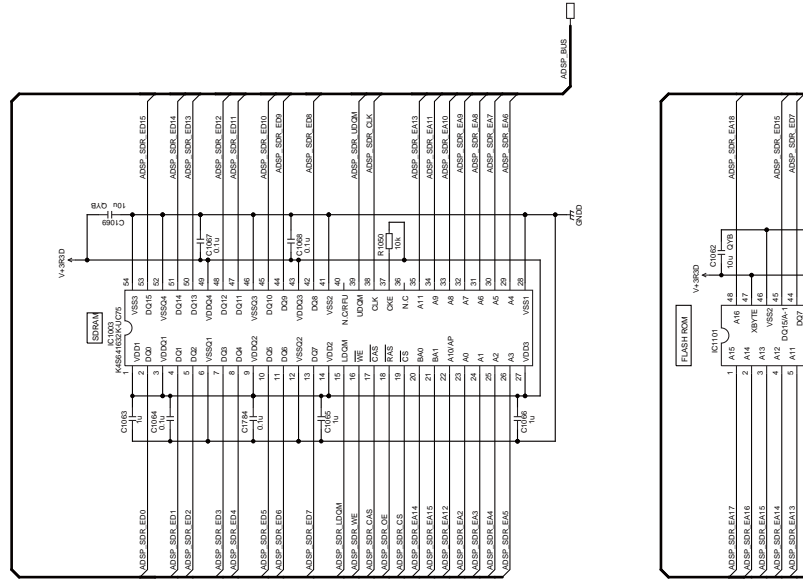
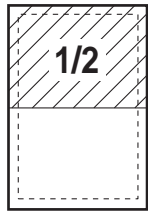
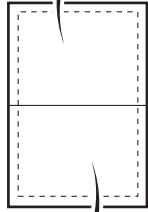
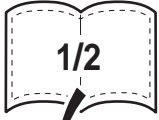




10.14 MAIN ASSY (2/9)

G 2/9 MAIN ASSY (DWX2715) (1/2)

Large size SCH diagram



SVM-1000

G 2/9

1 2 3 4

G 2/9 MAIN ASSY
(DWX2715) (2/2)

Large size
SCH diagram

AUDIO DSP

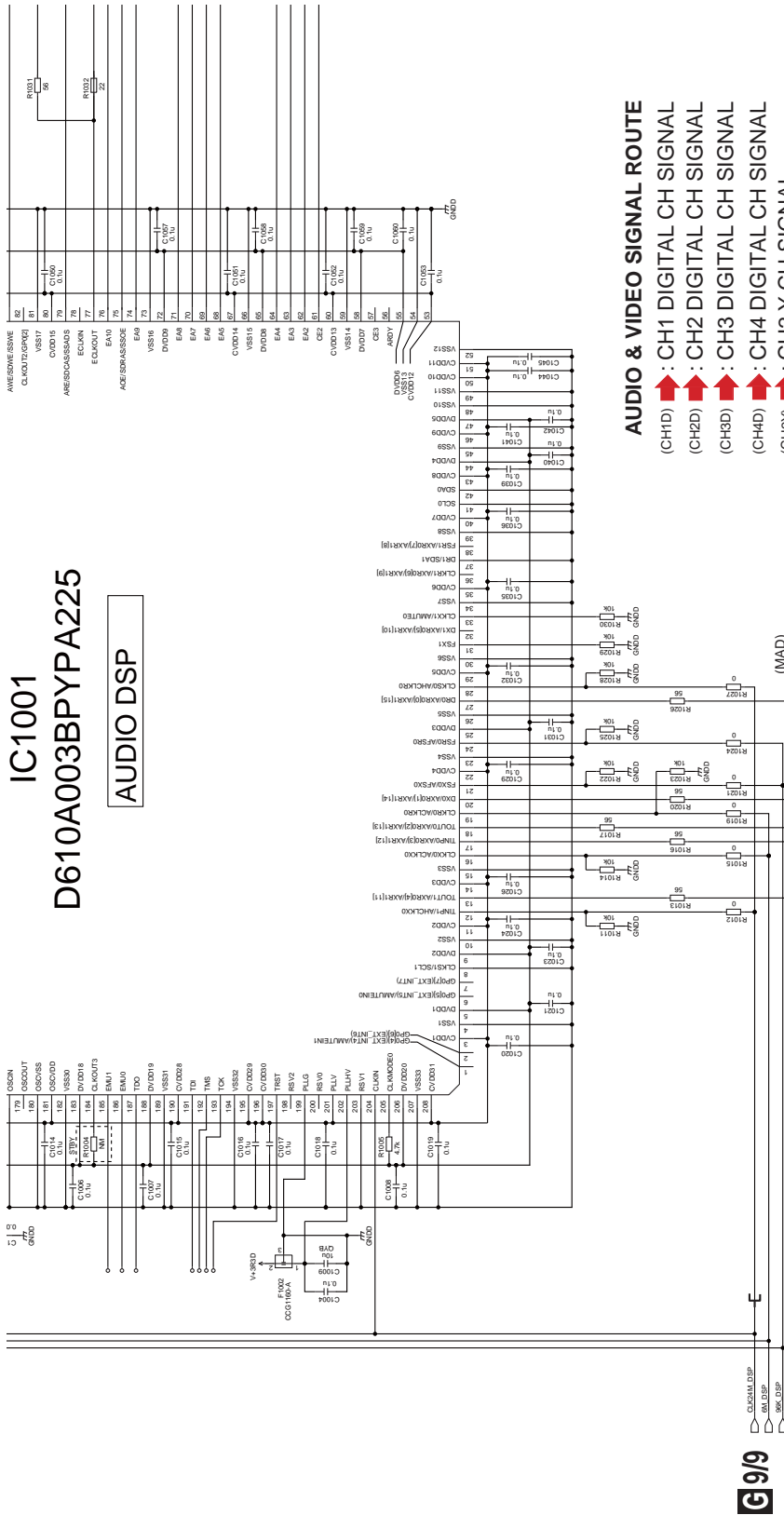
IC1001
D610A003BPYP A225
AUDIO DSP

G 2/9

96

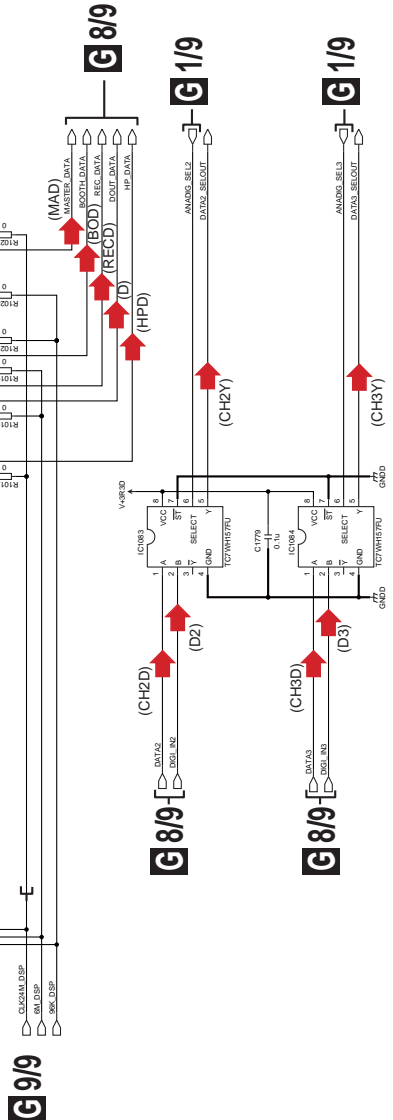
1 2 3 4

SVM-1000



IC1001
D610A003BPYP A225
AUDIO DSP

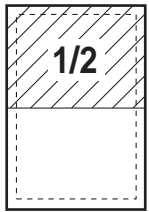
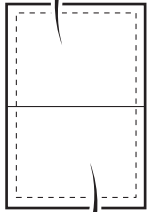
- AUDIO & VIDEO SIGNAL ROUTE**
- (CH1D) : CH1 DIGITAL CH SIGNAL
 - (CH2D) : CH2 DIGITAL CH SIGNAL
 - (CH3D) : CH3 DIGITAL CH SIGNAL
 - (CH4D) : CH4 DIGITAL CH SIGNAL
 - (CH2Y) : CH2 Y CH SIGNAL
 - (CH3Y) : CH3 Y CH SIGNAL
 - (D2) : CH2 DIGITAL SIGNAL
 - (D3) : CH3 DIGITAL SIGNAL
 - (MAD) : MASTER DIGITAL CH SIGNAL
 - (BOD) : BOOTH DIGITAL CH SIGNAL
 - (RECD) : REC DIGITAL CH SIGNAL
 - (HPD) : HP DIGITAL CH SIGNAL
 - (D) : DIGITAL CH SIGNAL
 - (MICD) : MIC DIGITAL CH SIGNAL



10.15 MAIN ASSY (3/9)

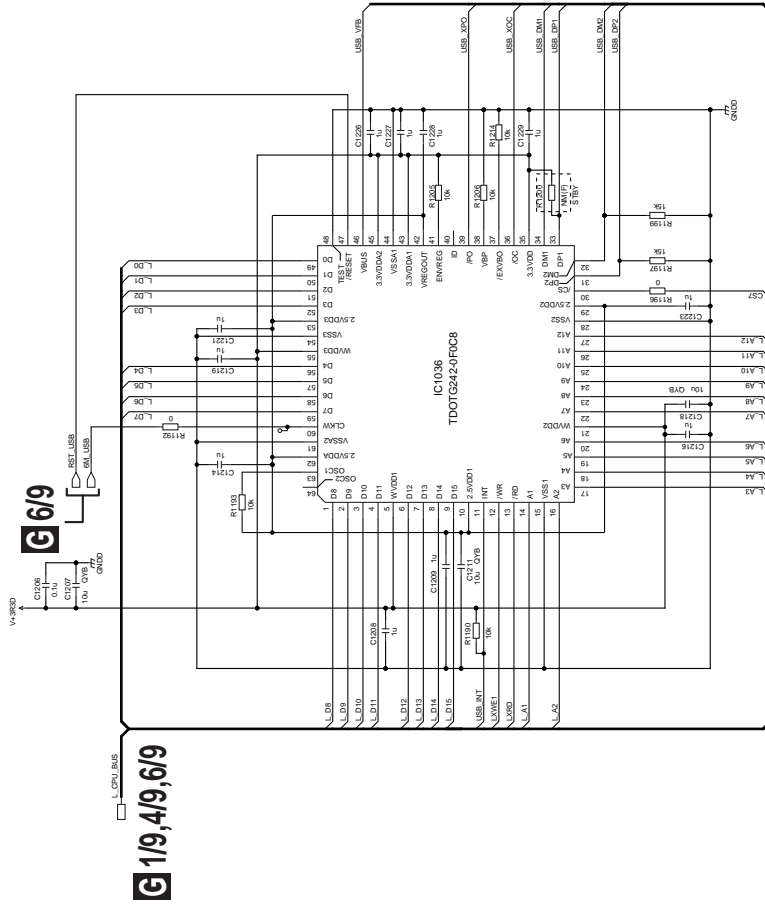
G 3/9 MAIN ASSY (DWX2715) (1/2)

Large size SCH diagram

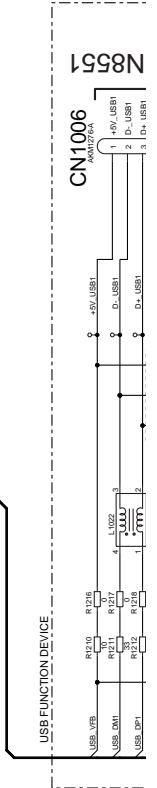


USB/SD

USB HOST/TARGET I/F



G 1/9, 4/9, 6/9



CN1006 ANALYZER

USB FUNCTION DEVICE

A

B

C

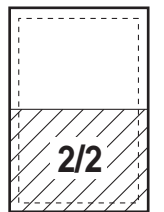
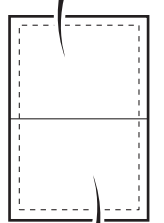
D

E

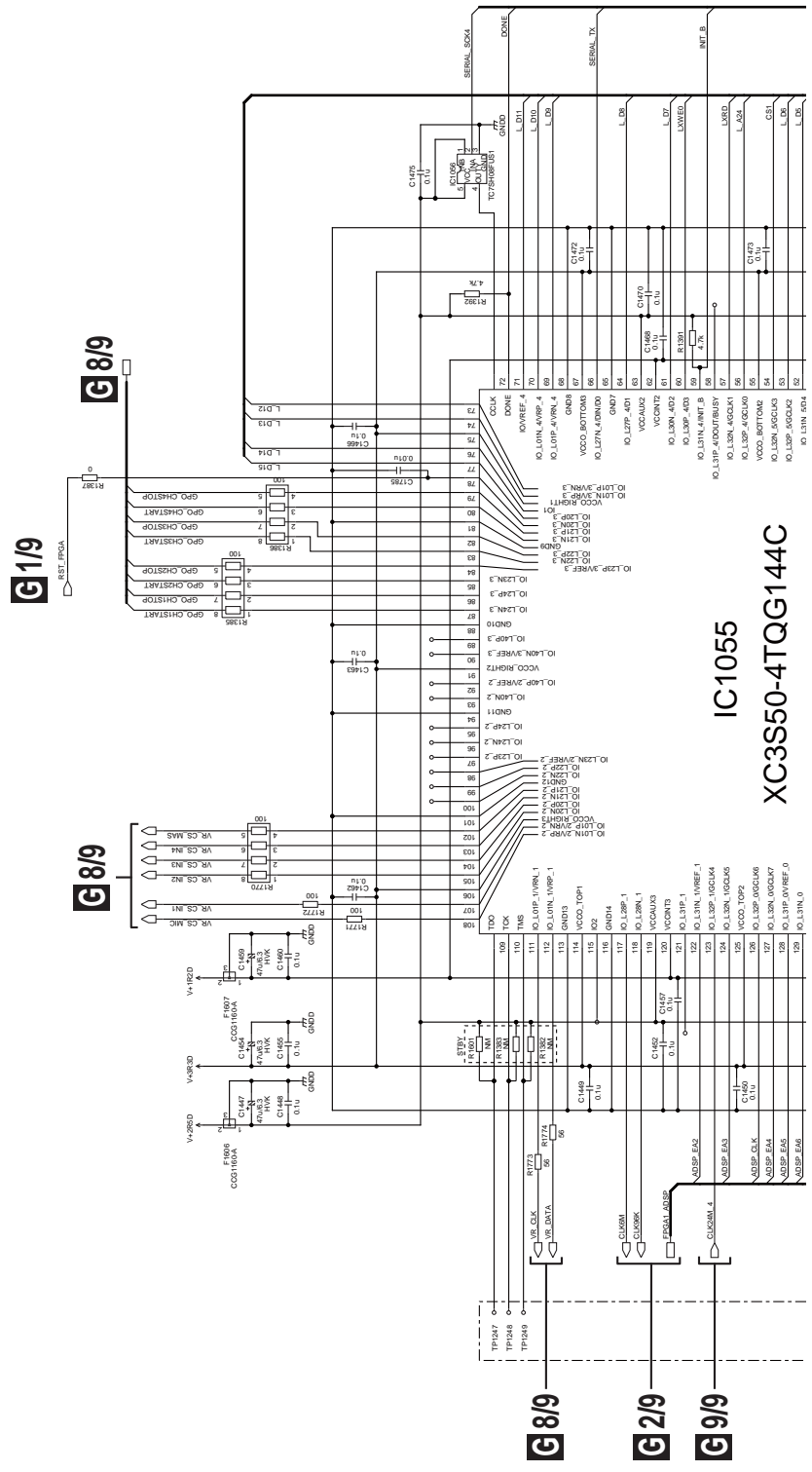
F

G3/9 MAIN ASSY (DWX2715) (2/2)

Large size SCH diagram



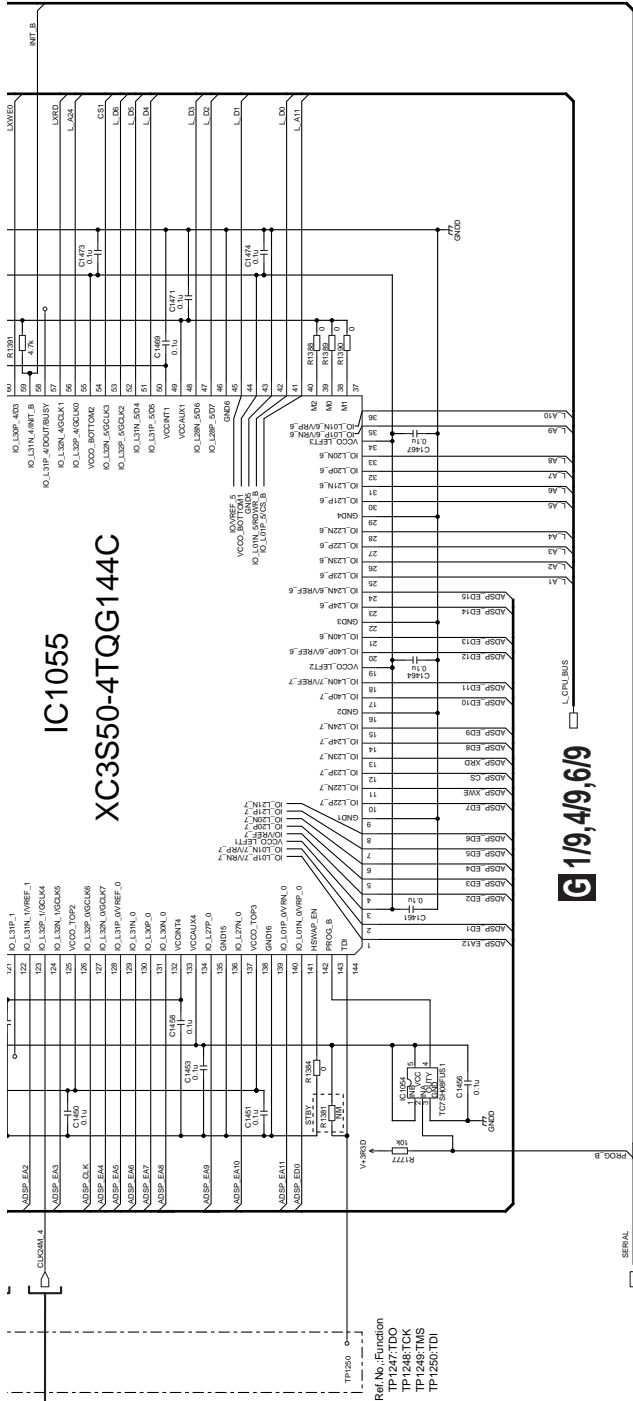
FPGA1



G3/9

100

SVM-1000

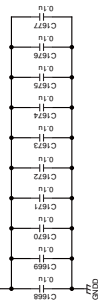
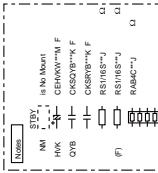


IC1055
XC3S50-4TQG144C

Ref. No.: Function
 TP1250: TDO
 TP1251: TDI
 TP1252: TMS
 TP1253: TCK
 TP1254: TDI

G/1/9,6/9

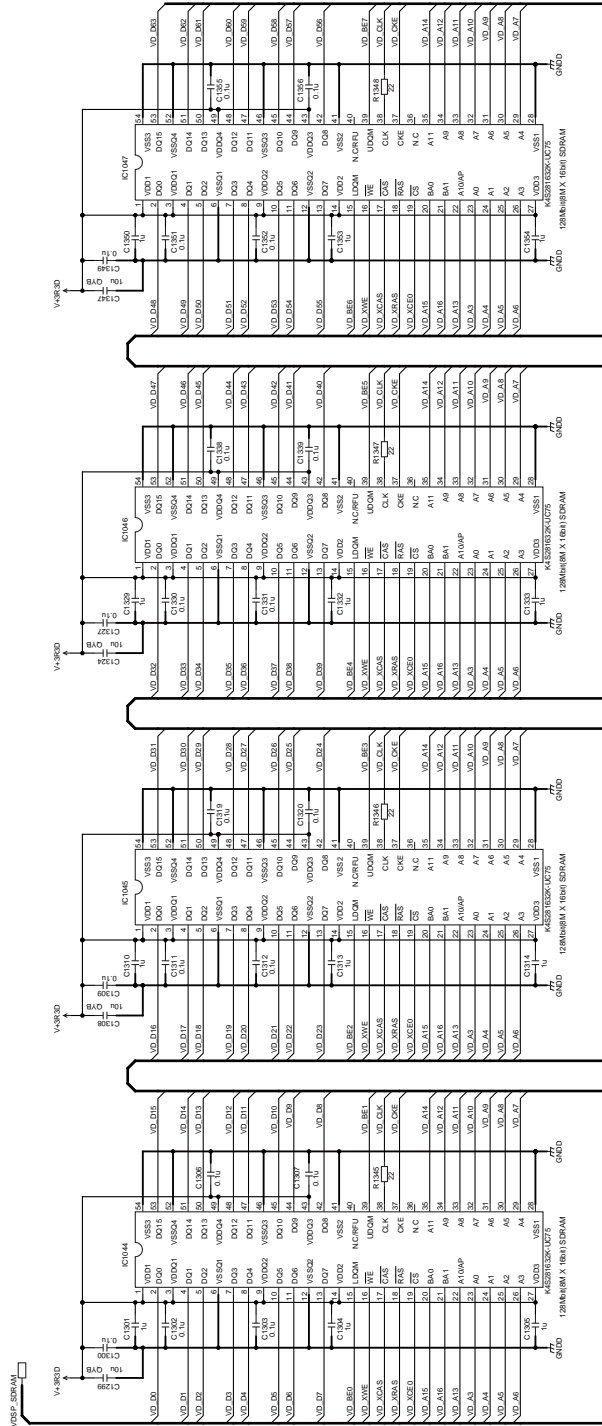
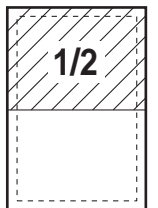
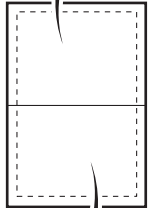
G/1/9,4/9,6/9

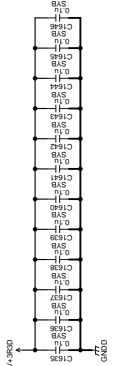
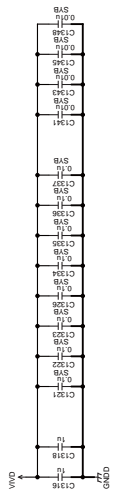


10.16 MAIN ASSY (4/9)

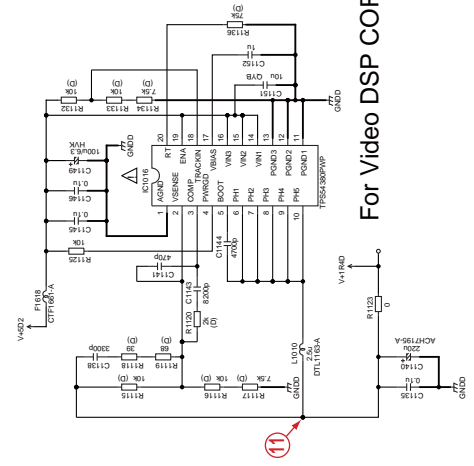
G 4/9 MAIN ASSY (DWX2715) (1/2)

Large size SCH diagram

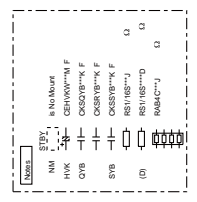




D +1.4V (0.85A)



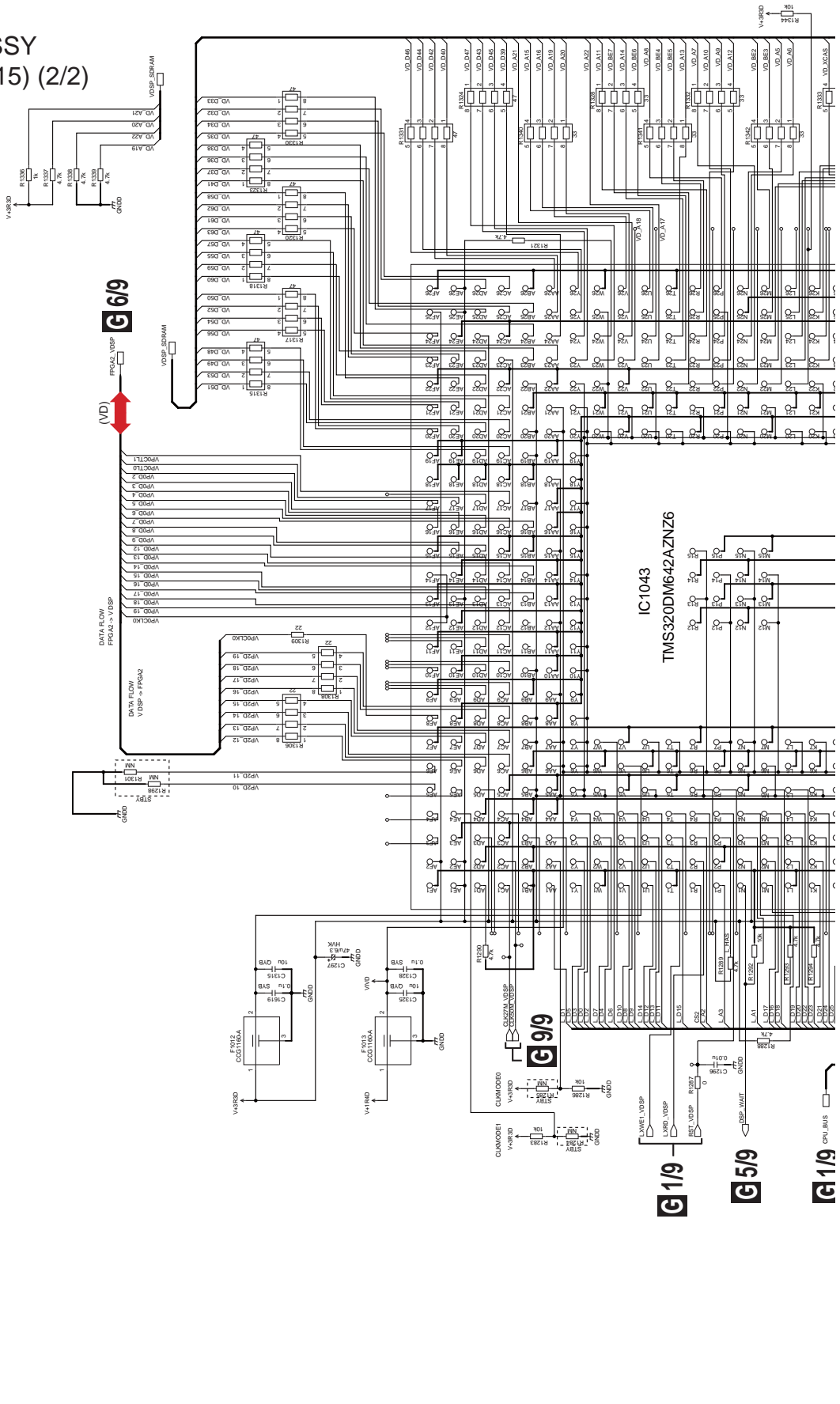
For Video DSP CORE



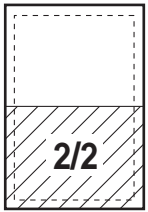
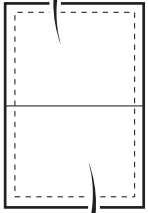
AUDIO & VIDEO SIGNAL ROUTE
 (VD) VIDEO DATA SIGNAL BUS

A
B
C
D
E
F

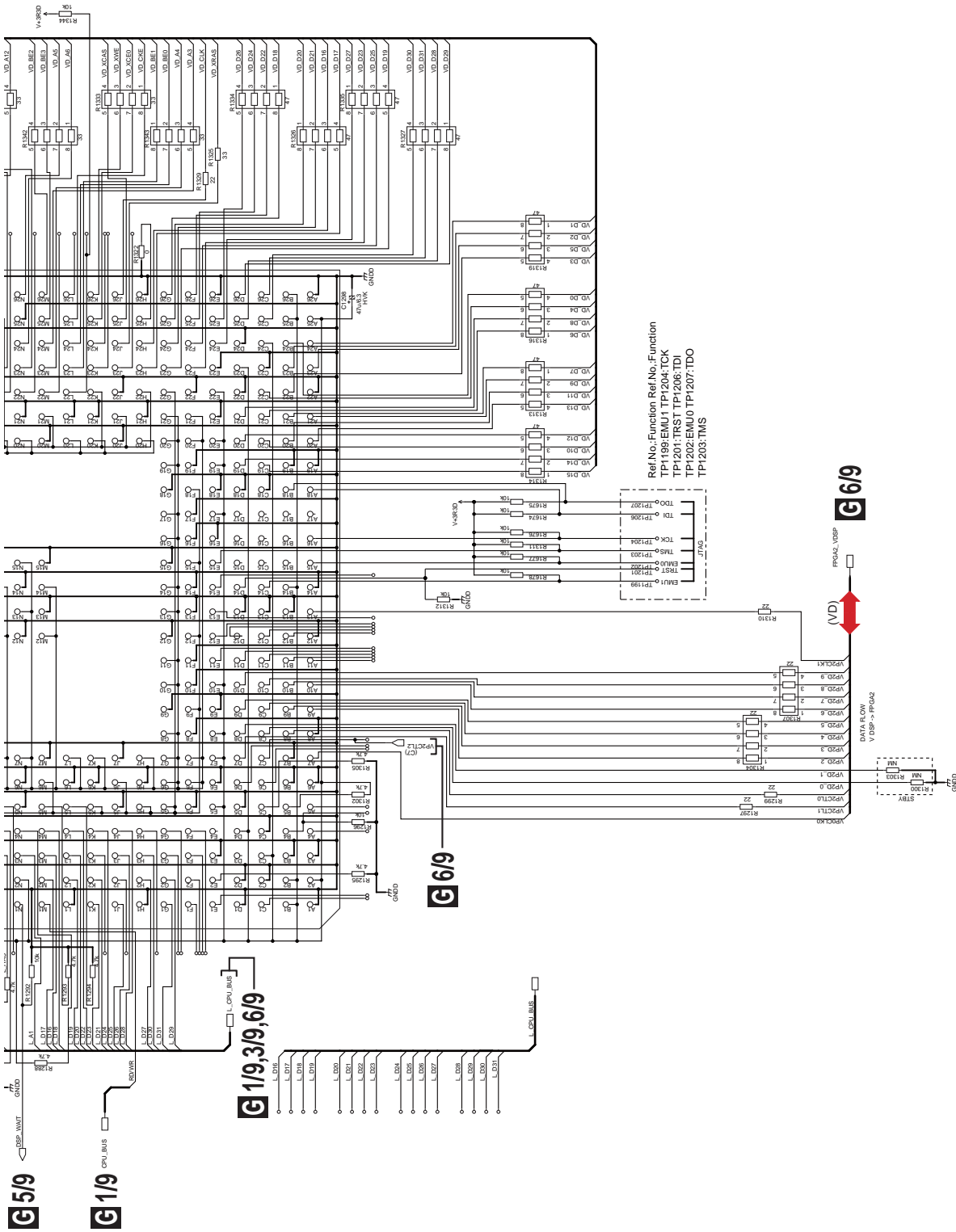
G 4/9 MAIN ASSY (DWX2715) (2/2)



Large size SCH diagram



VIDEO DSP



A B C D E F

A

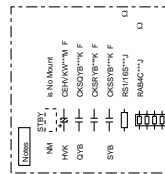
B

C

D

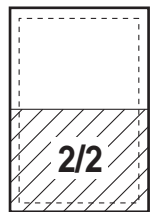
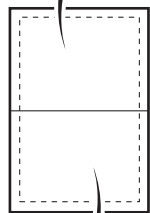
E

F

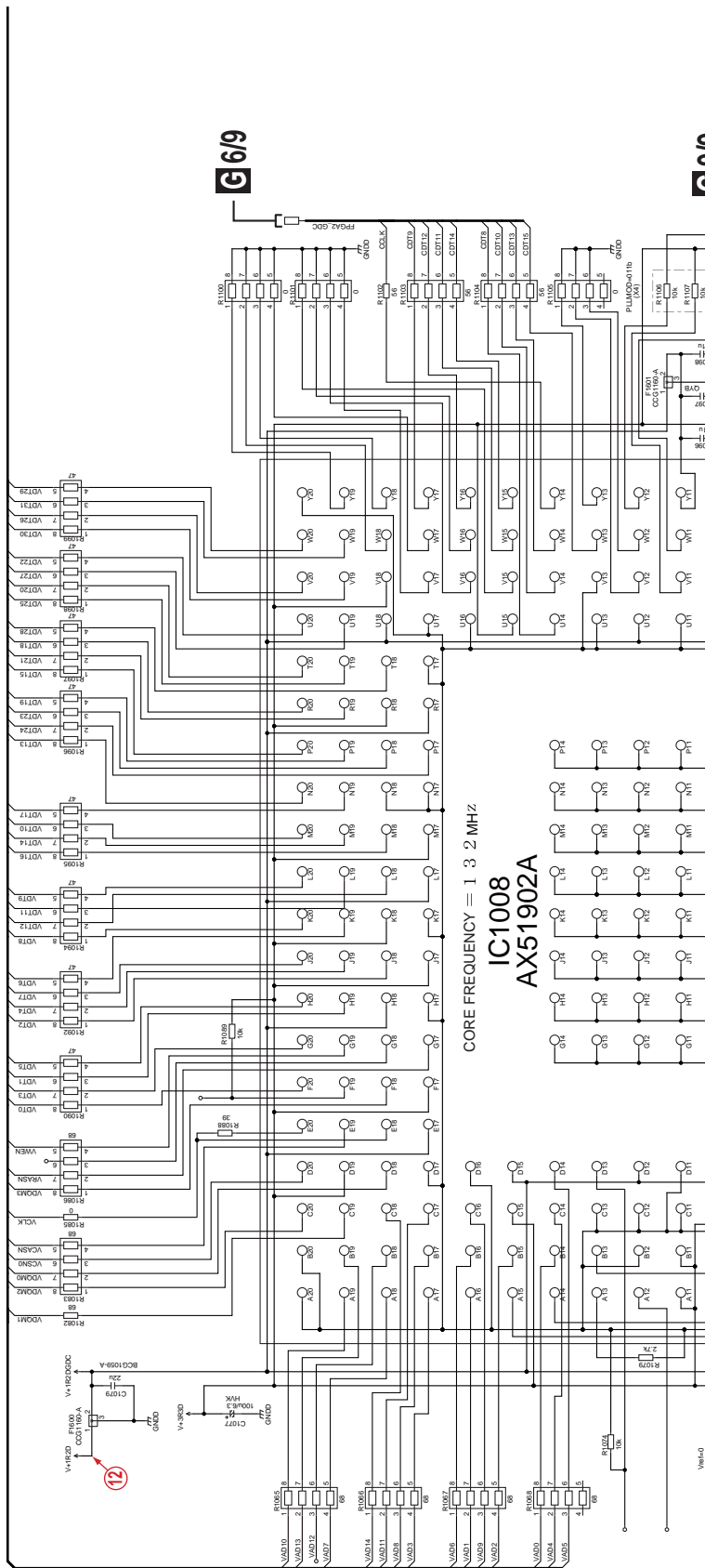


G5/9 MAIN ASSY (DWX2715) (2/2)

Large size SCH diagram



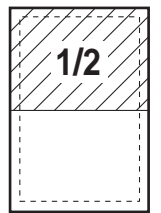
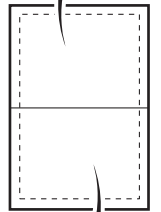
GDC



10.18 MAIN ASSY (6/9)

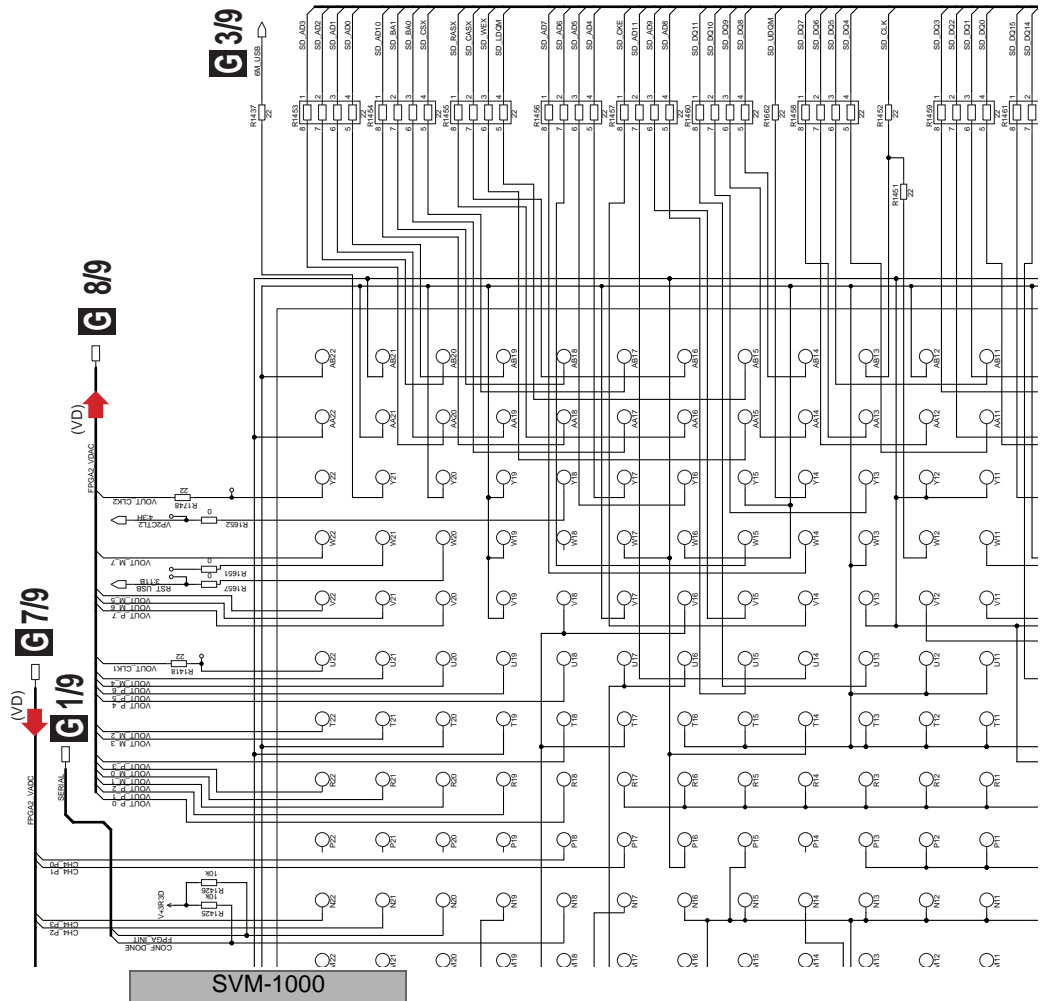
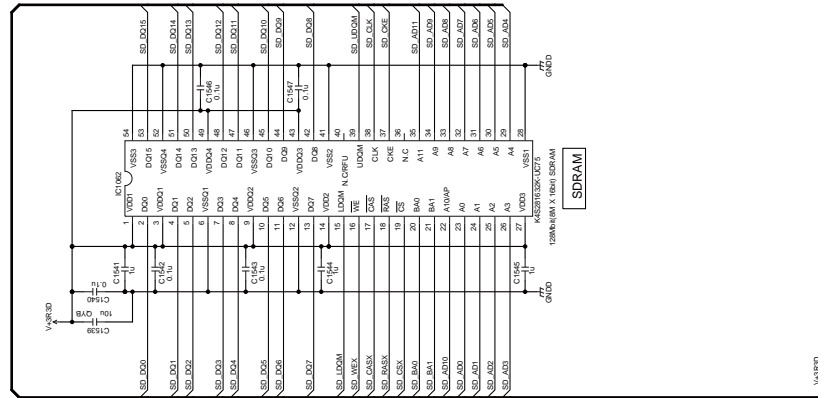
G 6/9 MAIN ASSY
(DWX2715) (1/2)

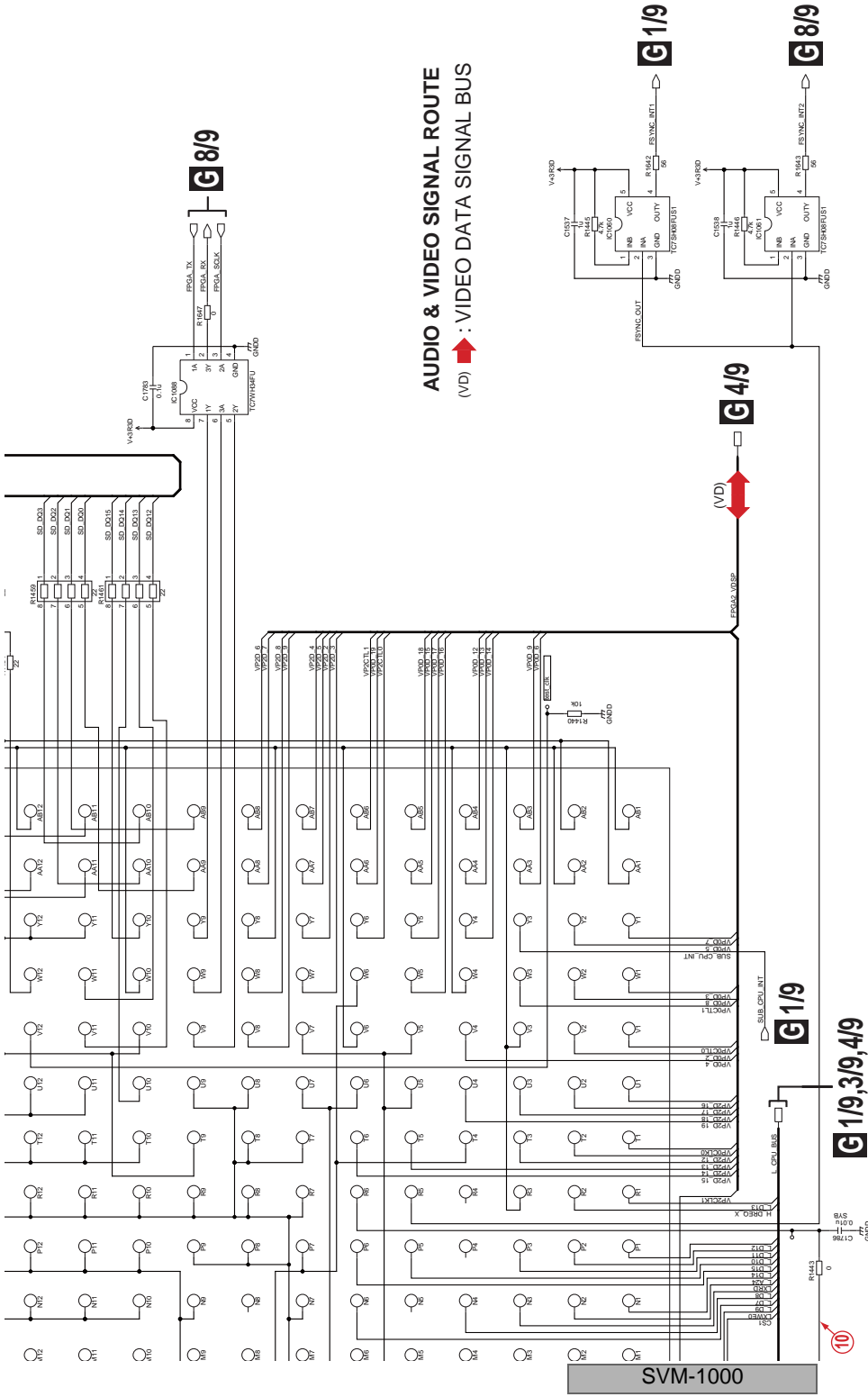
Large size
SCH diagram



G 6/9

IC1058
EP2C20F484C8N





AUDIO & VIDEO SIGNAL ROUTE
 (VD) → VIDEO DATA SIGNAL BUS

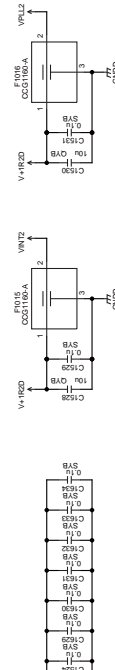
G 1/9,3/9,4/9

G 1/9

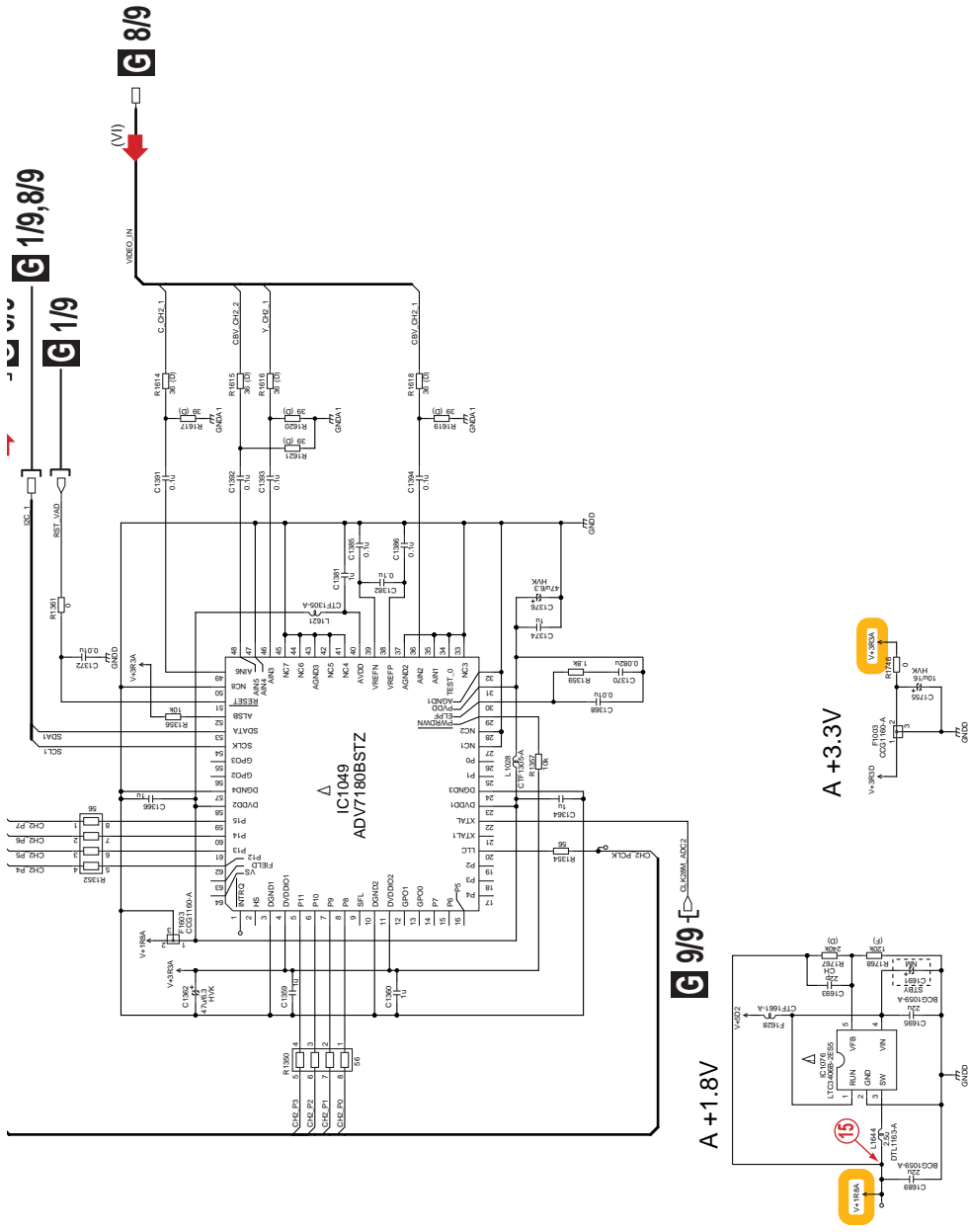
G 1/9

G 8/9

SVM-1000



G 6/9



A +1.8V

A +3.3V

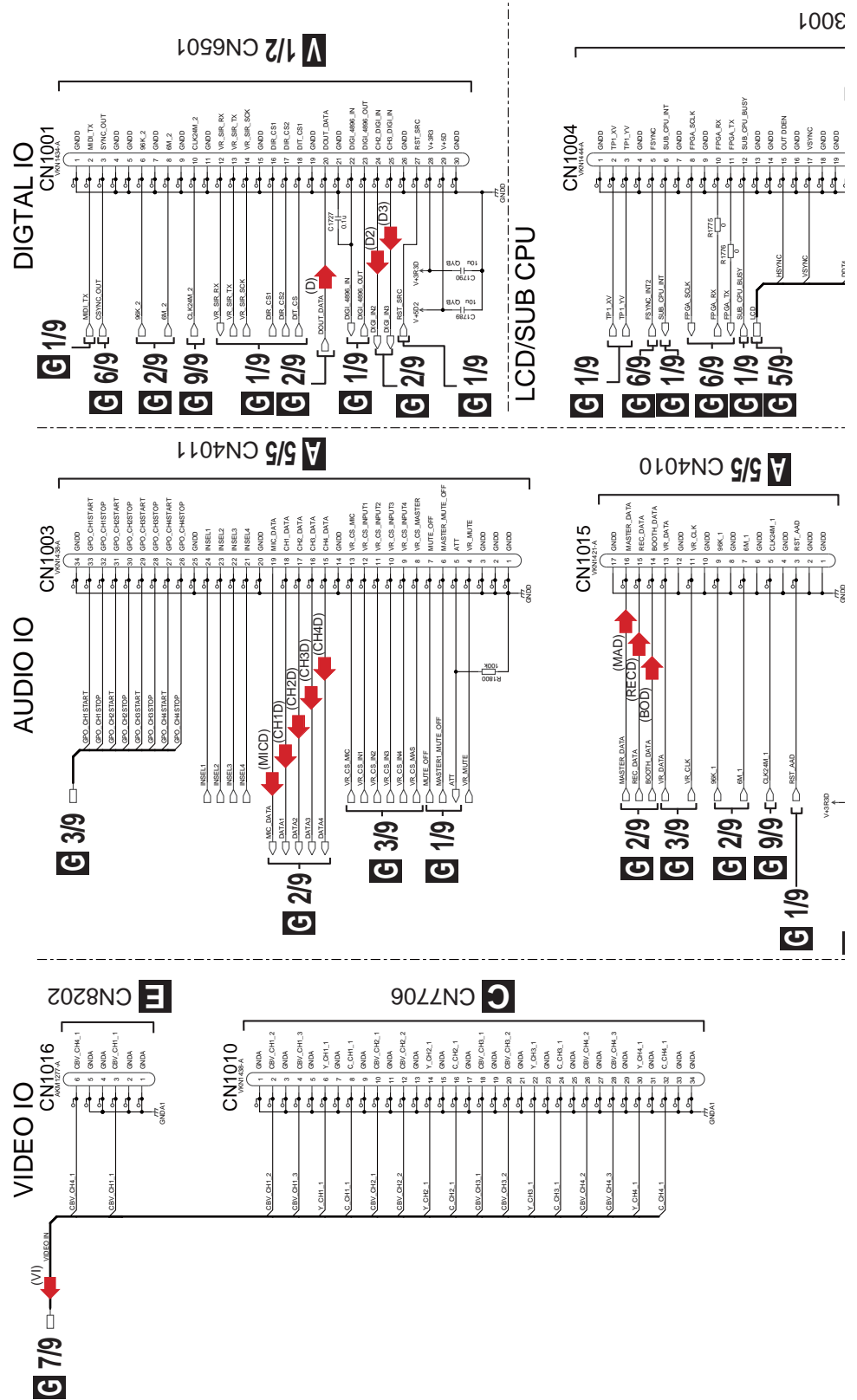
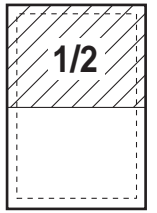
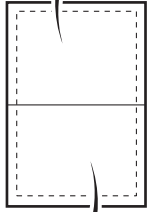
A B C D E F

10.20 MAIN ASSY (8/9)

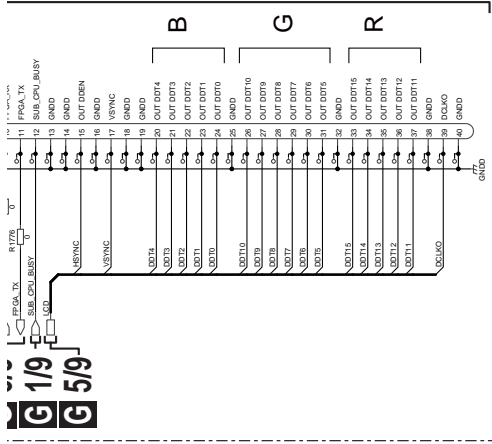
G 8/9 MAIN ASSY (DWX2715) (1/2)

CONNECTOR

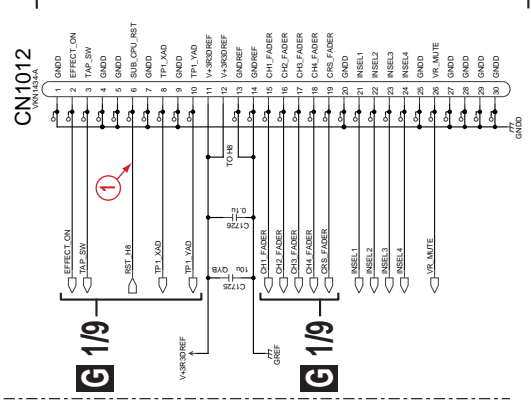
Large size SCH diagram



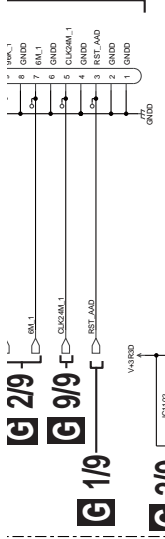
H 1/2 CN3001



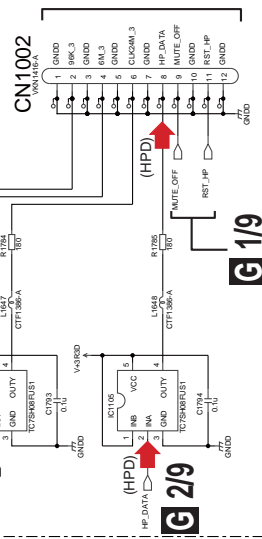
H 2/2 CN3006



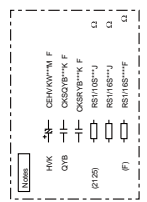
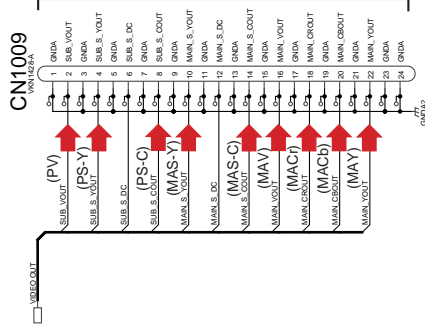
A 5/5



AA CN7401



G CN7707



A

B

C

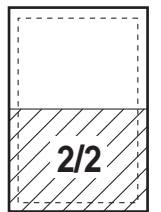
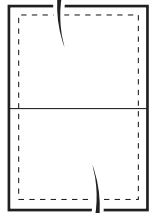
D

E

F

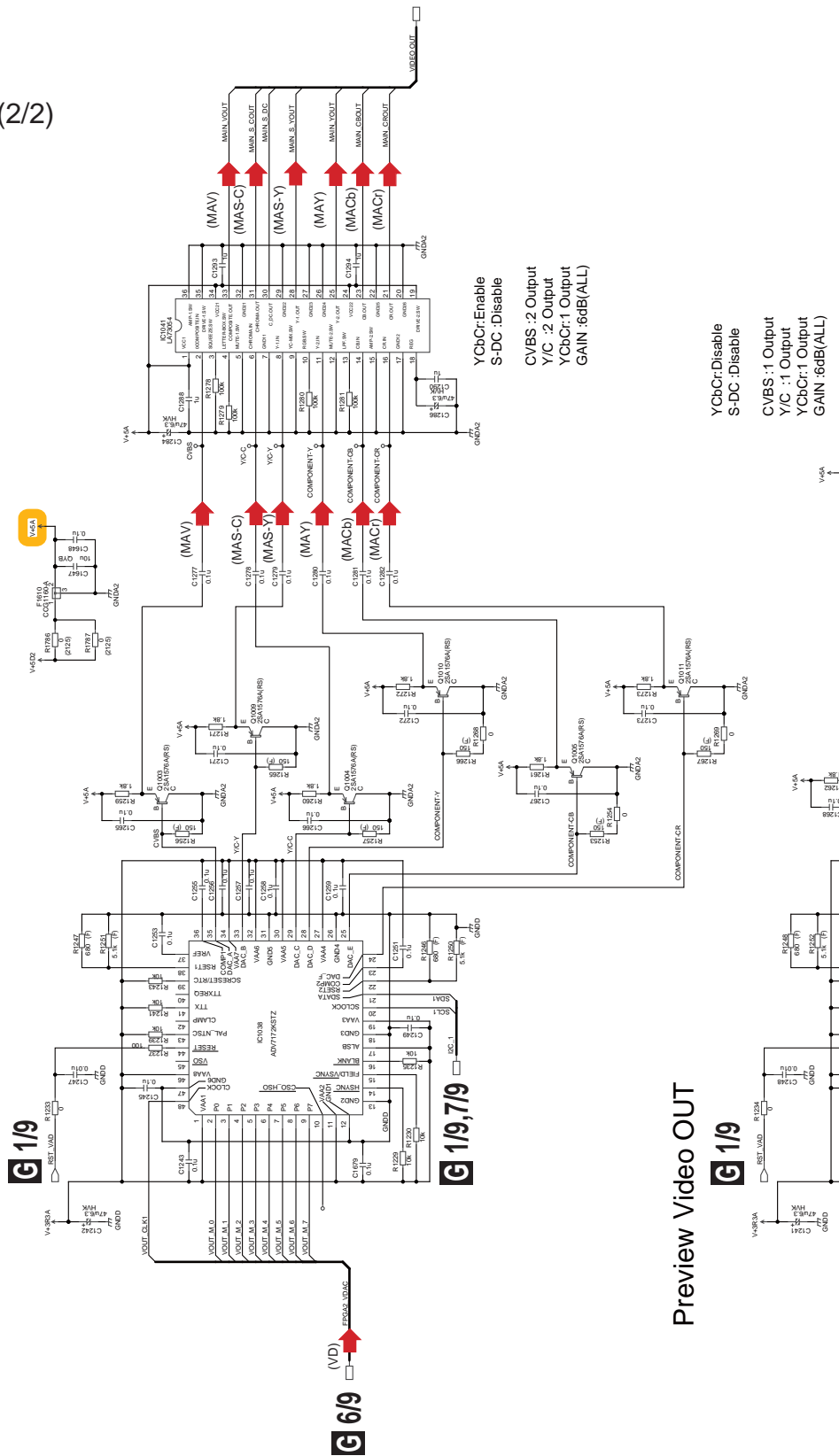
G 8/9 MAIN ASSY
(DWX2715) (2/2)

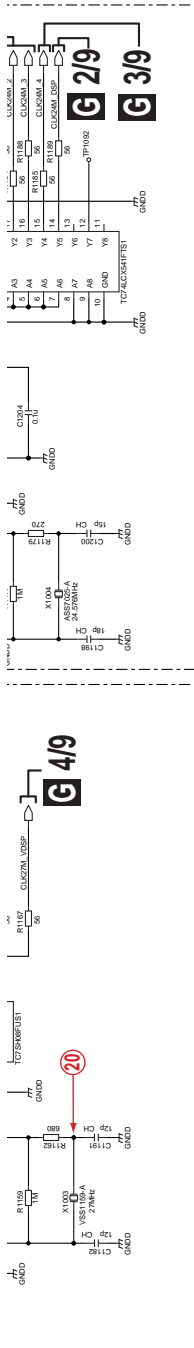
Large size
SCH diagram



VIDEO DAC

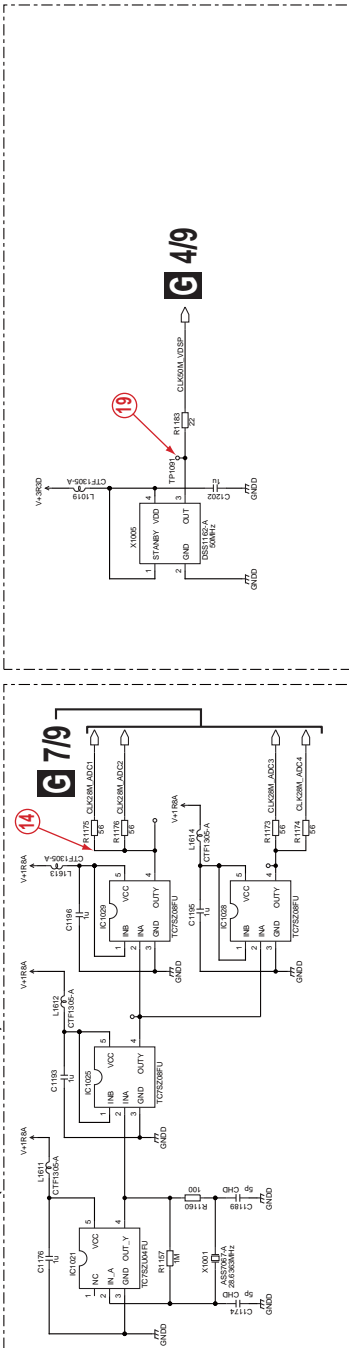
Master Video OUT

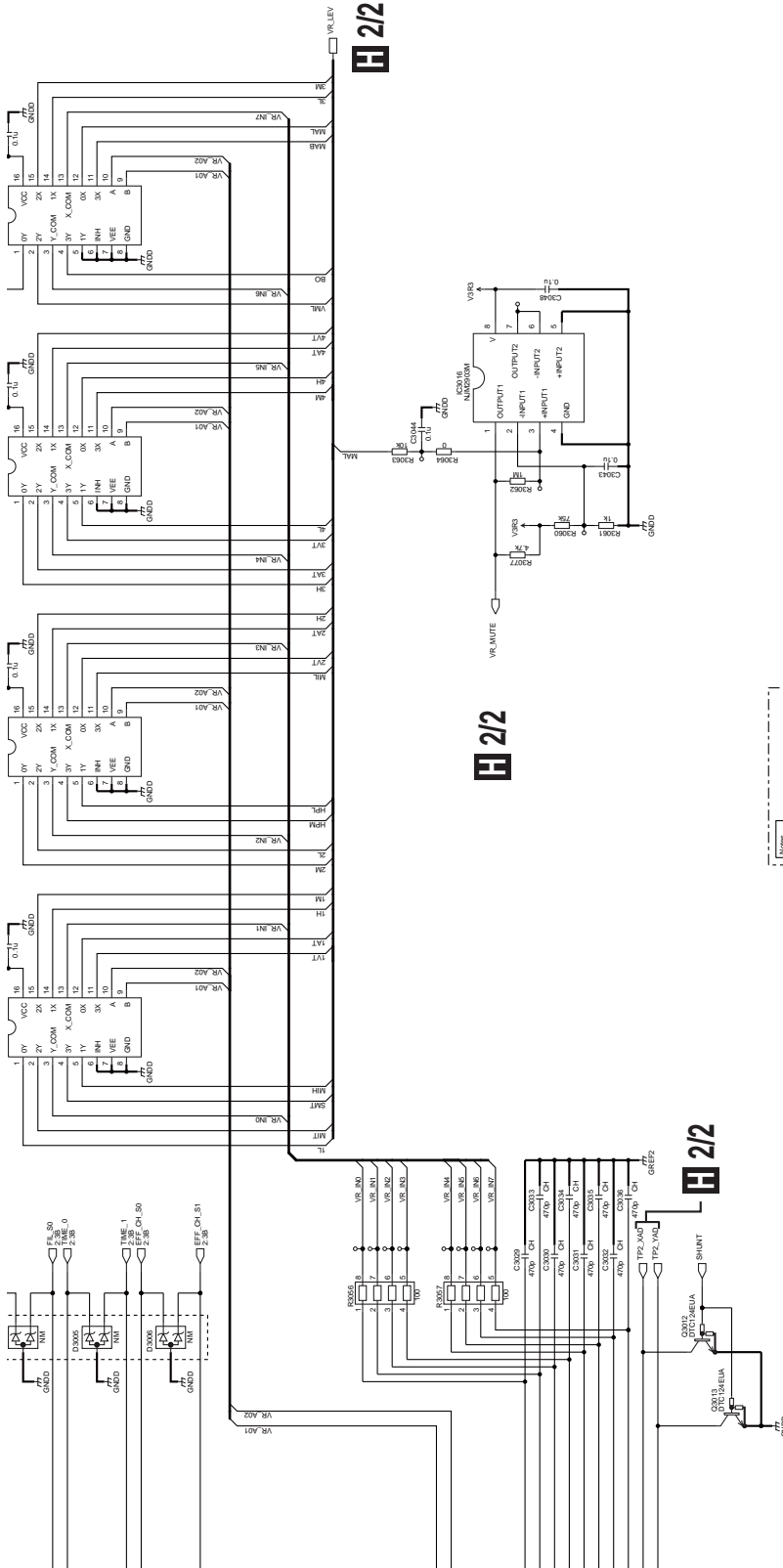




For Video DSP
50MHz

For Video ADC
28.6363MHz (1.8V DOMAIN)





H 2/2

H 2/2

H 2/2

SVM-1000

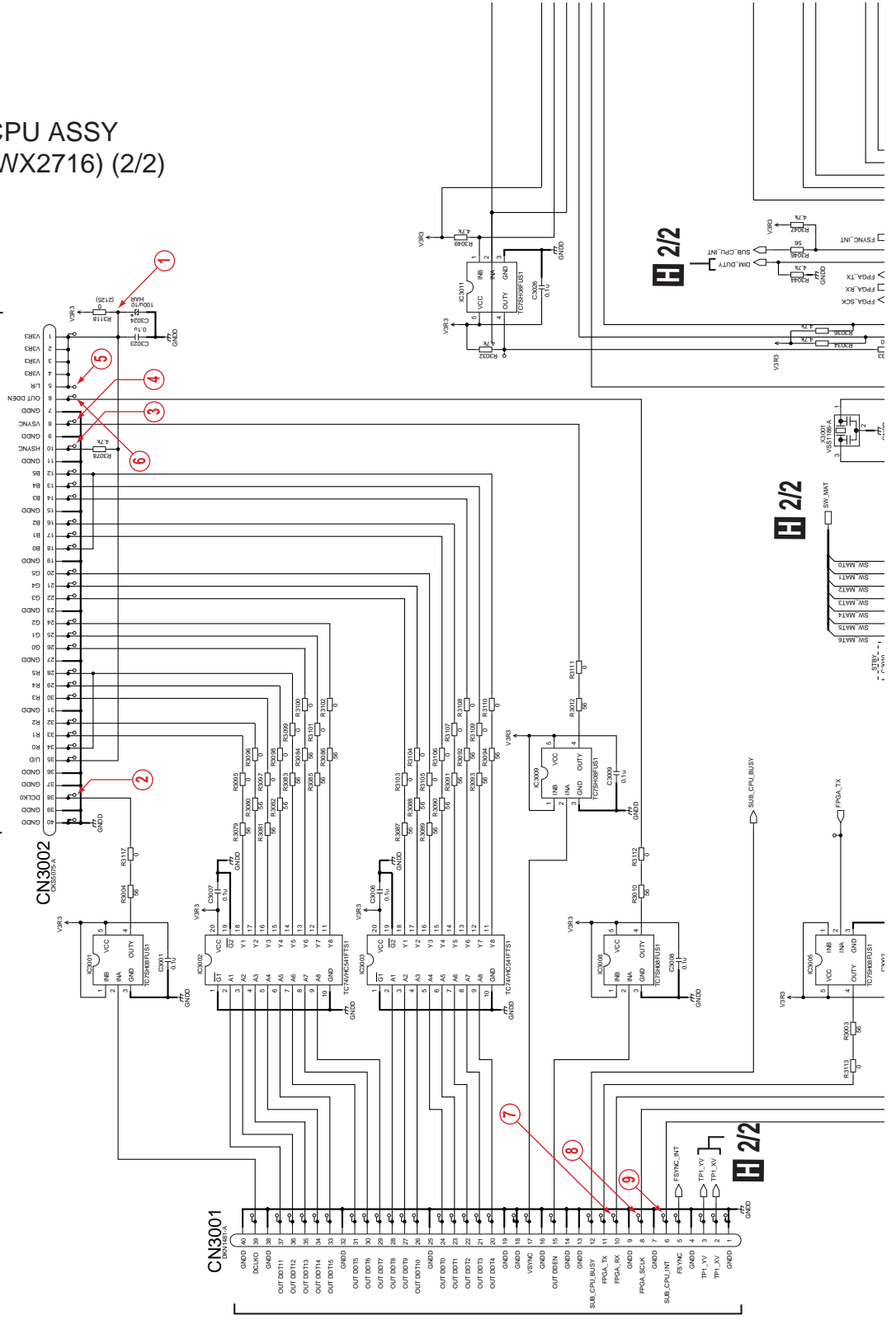
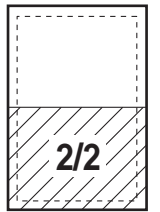
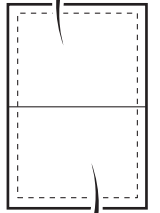
Symbol	Value
VR_N01	10k
VR_N02	10k
VR_N03	10k
VR_N04	10k
VR_N05	10k
VR_N06	10k
VR_N07	10k
VR_N08	10k
VR_N09	10k
VR_N10	10k
VR_N11	10k
VR_N12	10k
VR_N13	10k
VR_N14	10k
VR_N15	10k
VR_N16	10k
VR_A01	10k
VR_A02	10k
VR_A03	10k
VR_A04	10k
VR_A05	10k
VR_A06	10k
VR_A07	10k
VR_A08	10k
VR_A09	10k
VR_A10	10k
VR_A11	10k
VR_A12	10k
VR_A13	10k
VR_A14	10k
VR_A15	10k
VR_A16	10k

H 1/2

H 1/2 SCPU ASSY (DWX2716) (2/2)

TO LCD

Large size SCH diagram



H 2/2

H 2/2

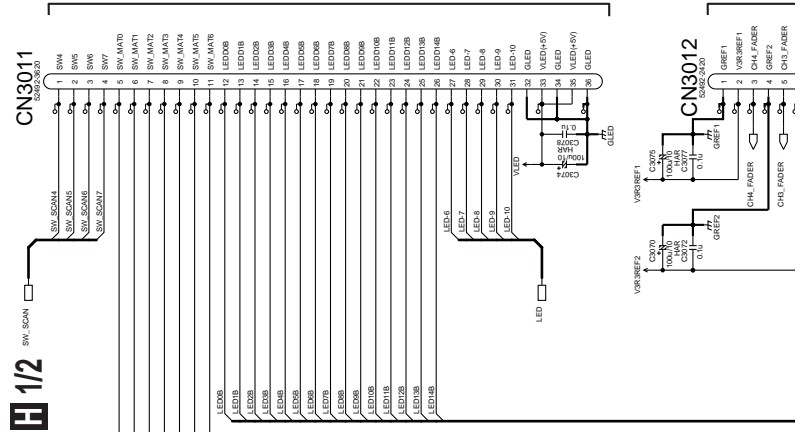
H 2/2

G 8/9 CN1004

10.23 SCPU ASSY (2/2)

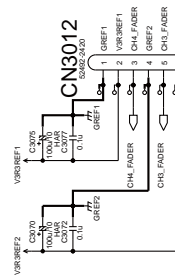
H 2/2 SCPU ASSY (DWX2716) (1/2)

J CN7101

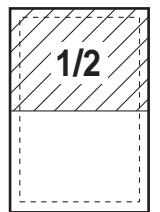
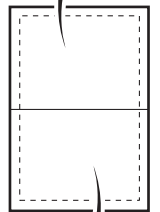


H 1/2

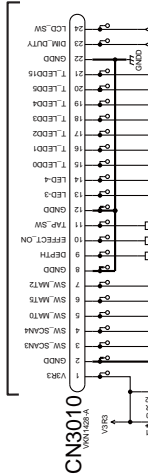
K CN3012



Large size SCH diagram



P CN6003



H 1/2

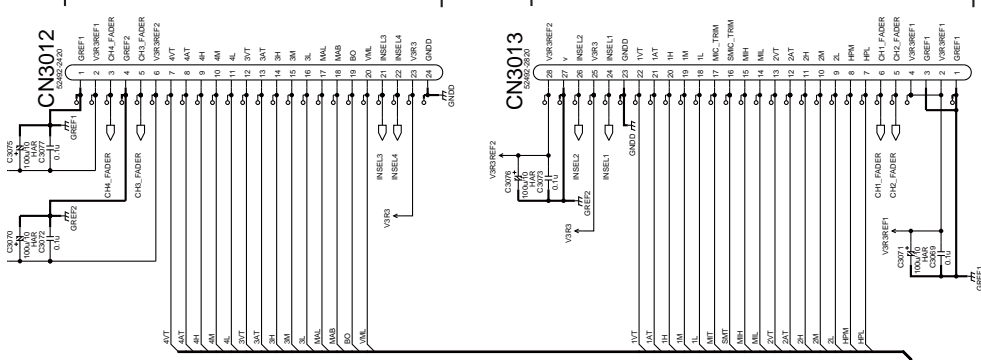
H 1/2

H 1/2

H 2/2

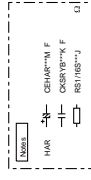
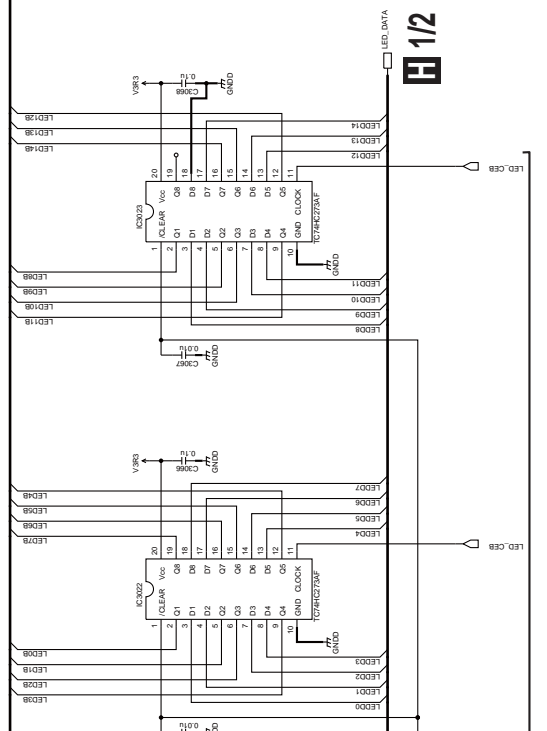
J CN7102

I CN6801



H 1/2

H 1/2

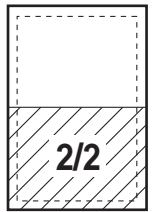
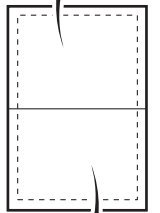


SVM-1000

H 2/2

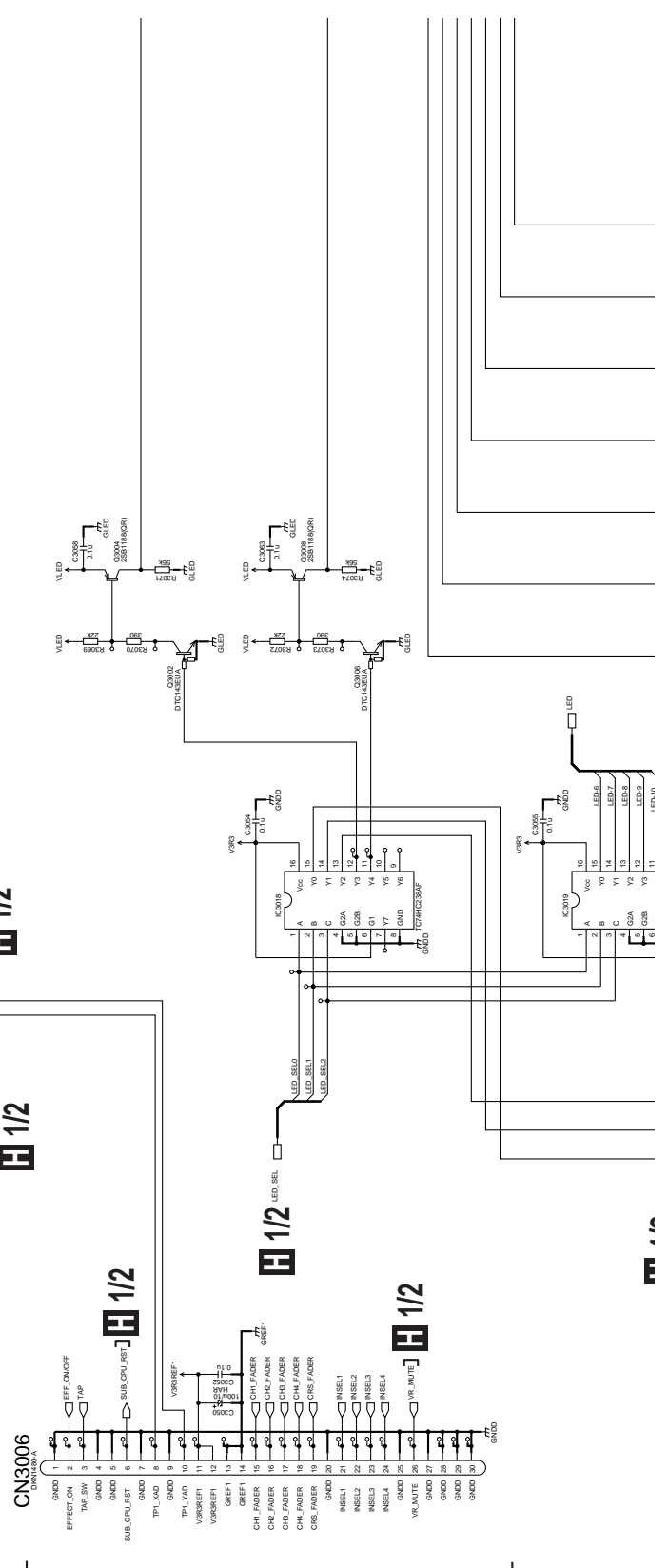
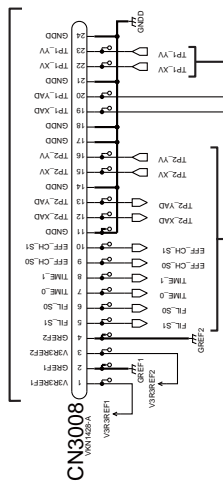
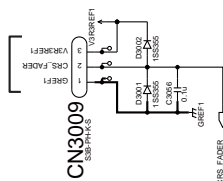
H 2/2 SCPU ASSY (DWX2716) (2/2)

Large size SCH diagram

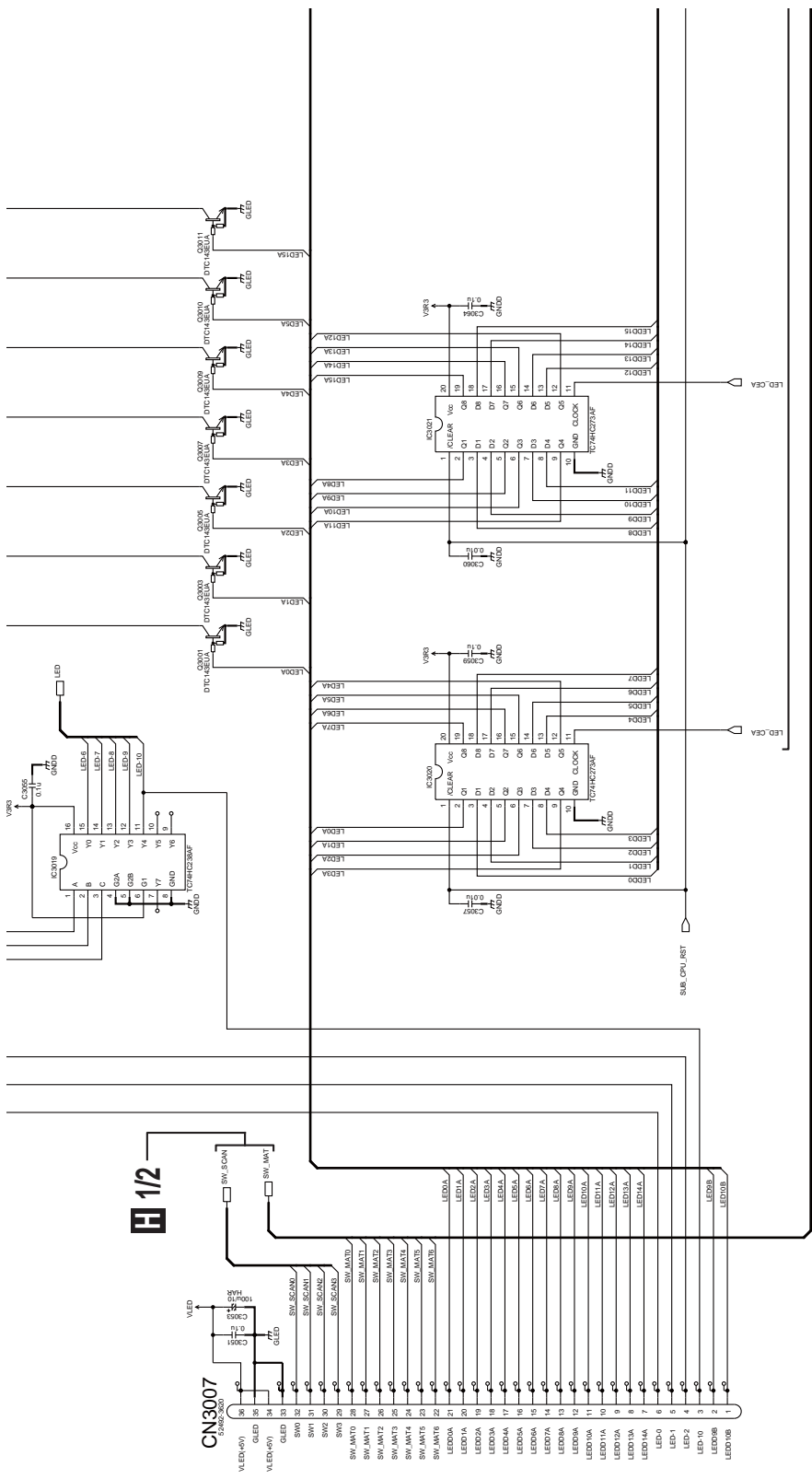


T CN8751

P CN6002



H 2/2



H 1/2

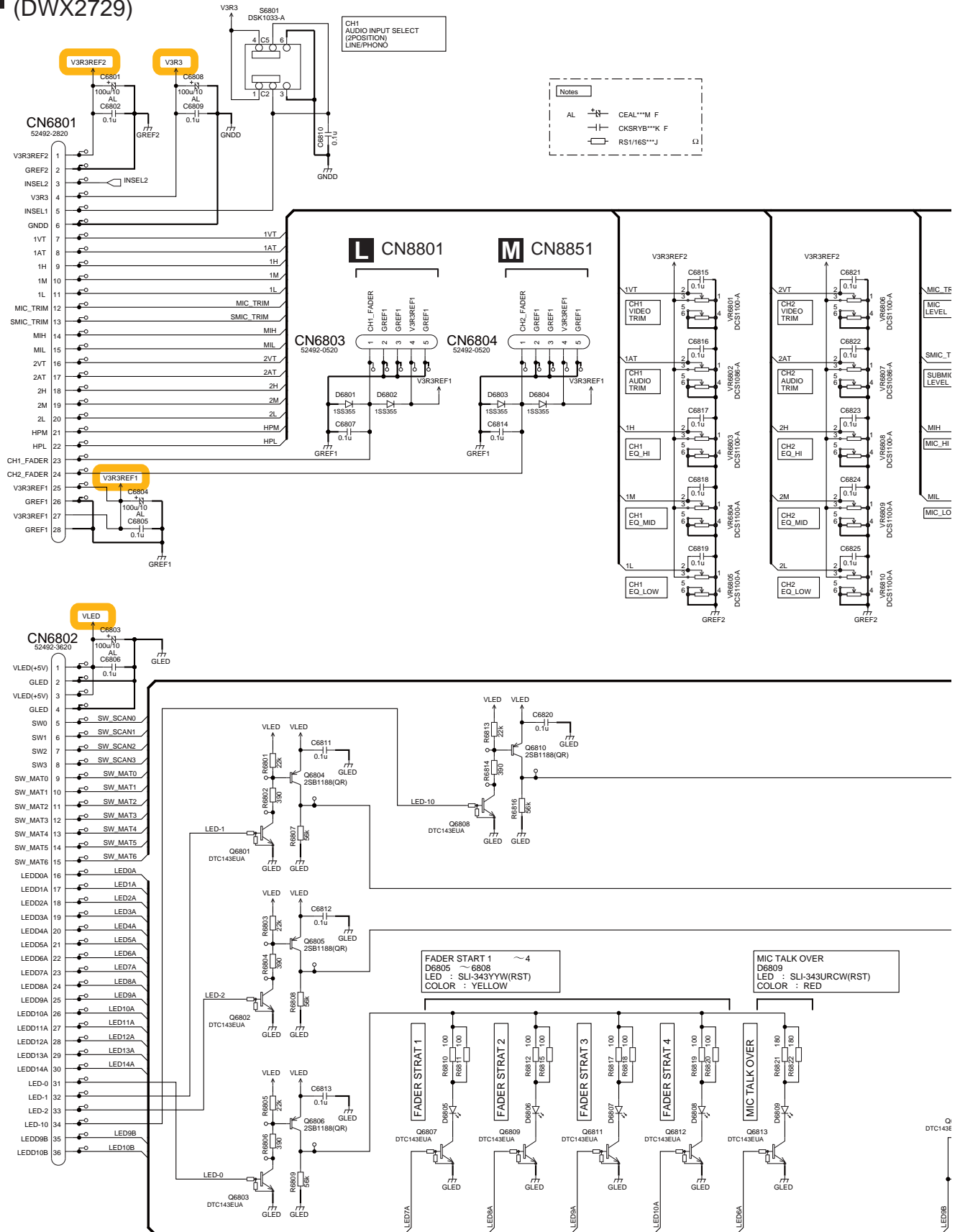
CN6802

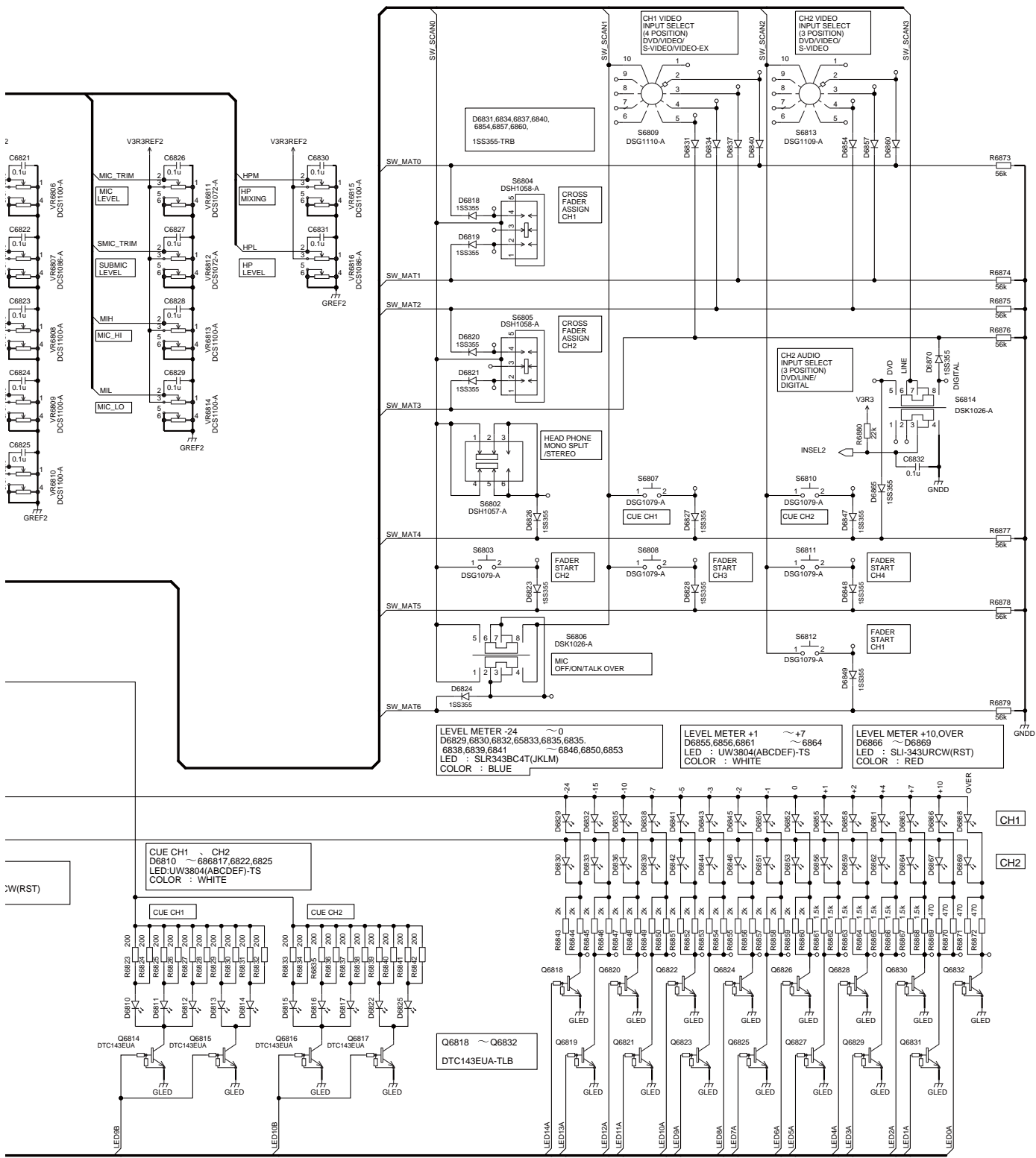
SVM-1000

A B C D E F

10.24 CTL1 ASSY

CTL1 ASSY (DWX2729)





10.25 CTL2A ASSY

J CTL2A ASSY (DWX2735)

A

B

C

D

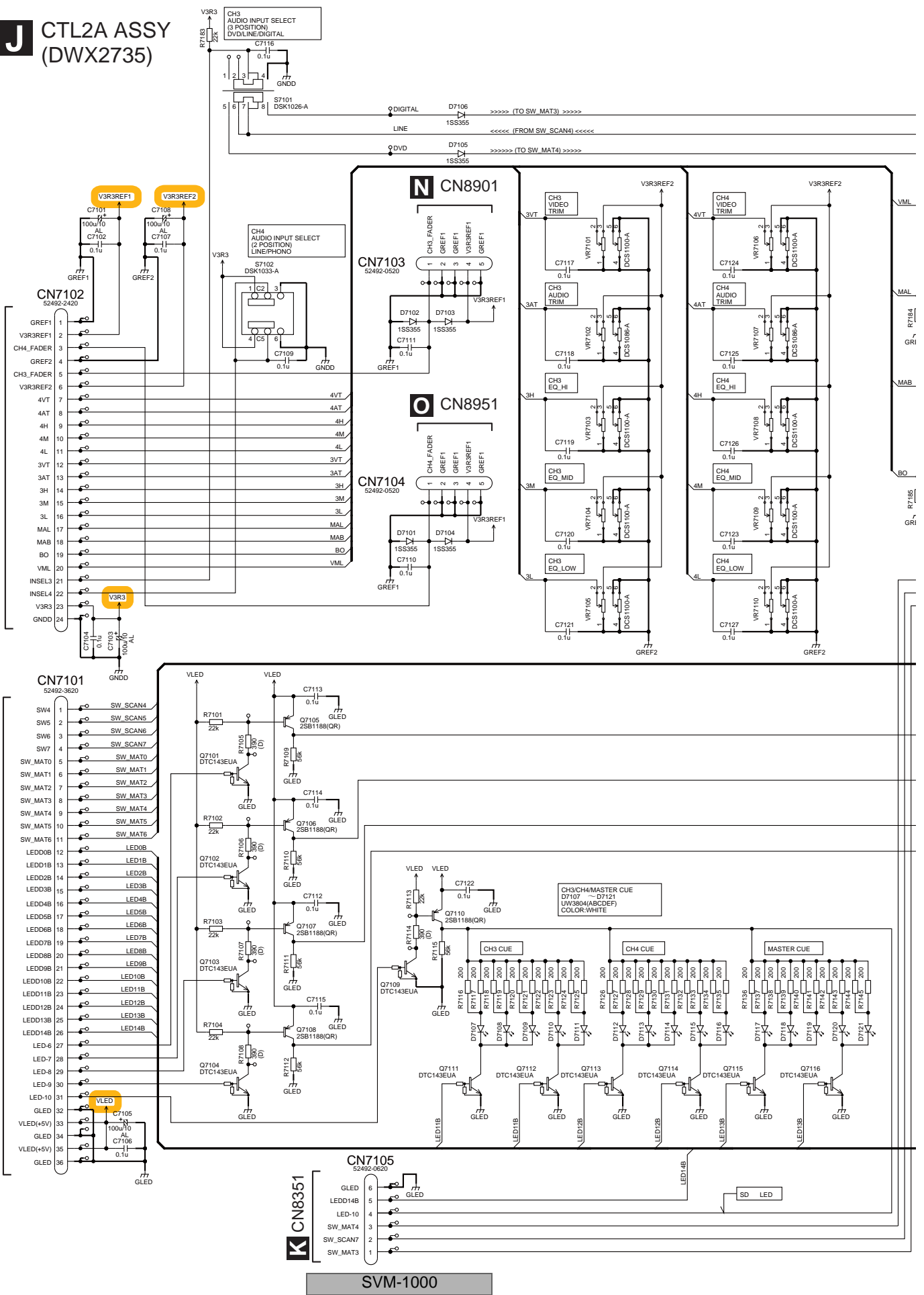
E

F

H/2/2 CN3012

H/2/2 CN3011

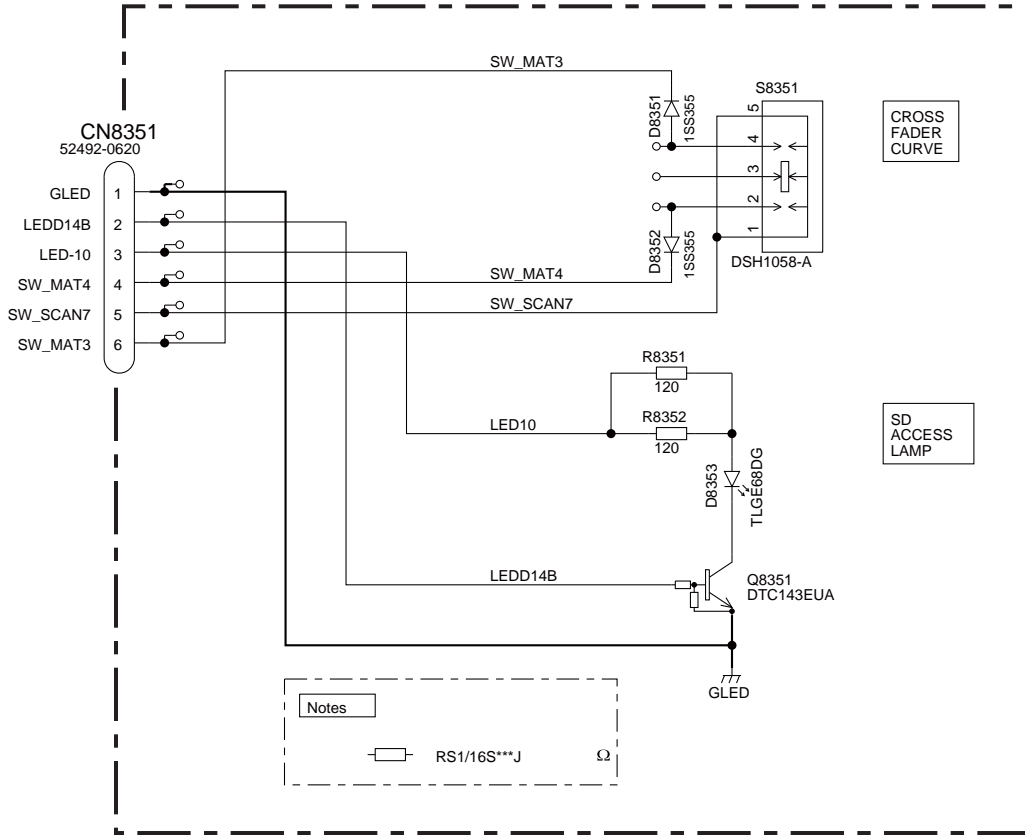
K CN8351



10.26 CTL2B, CFD1, CFD2, CFD3 and CFD4 ASSYS

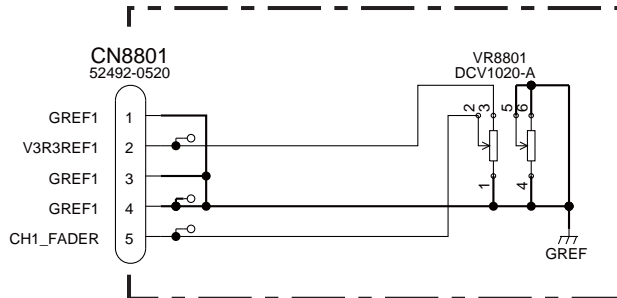
K CTL2B ASSY (DWX2736)

J CN7105

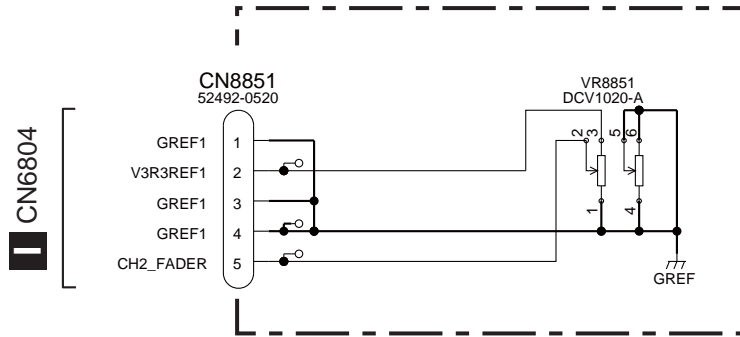


L CFD1 ASSY (DWX2740)

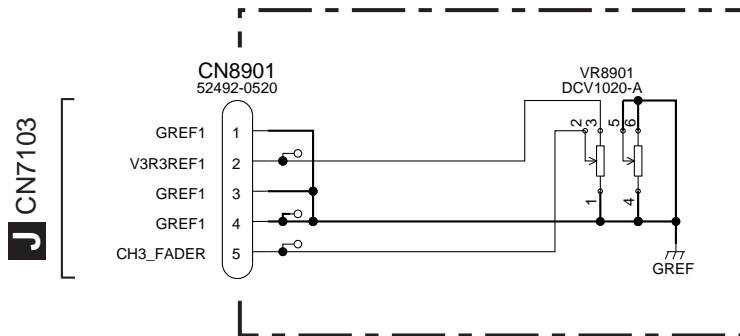
I CN6803



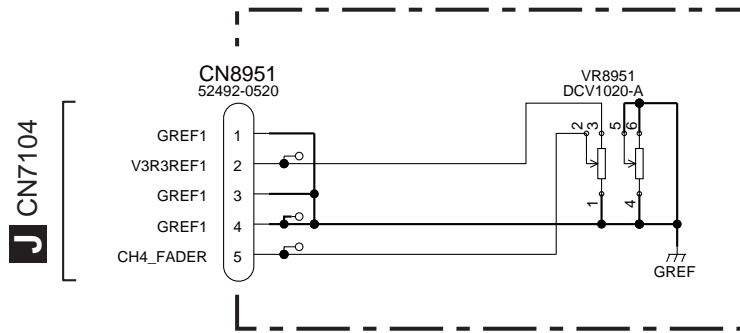
M CFD2 ASSY
(DWX2741)



N CFD3 ASSY
(DWX2742)



O CFD4 ASSY
(DWX2743)

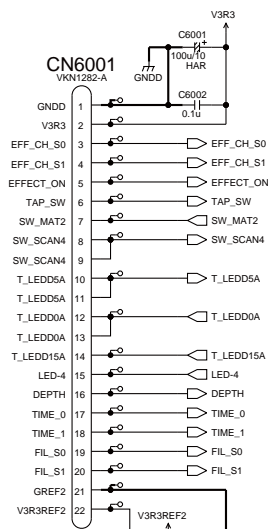


10.27 INVT ASSY

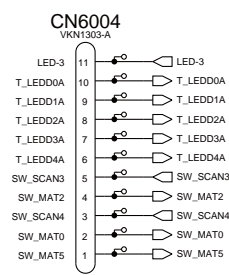
1 2 3 4

A
B
C
D
E
F

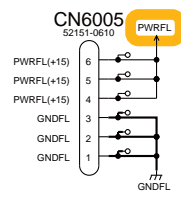
Q CN8501



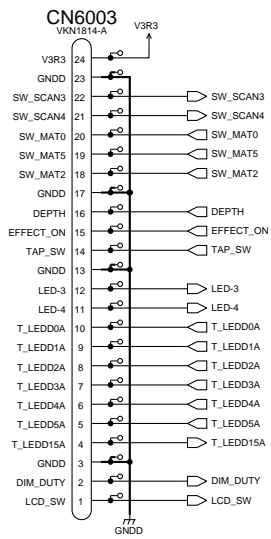
R CN8451



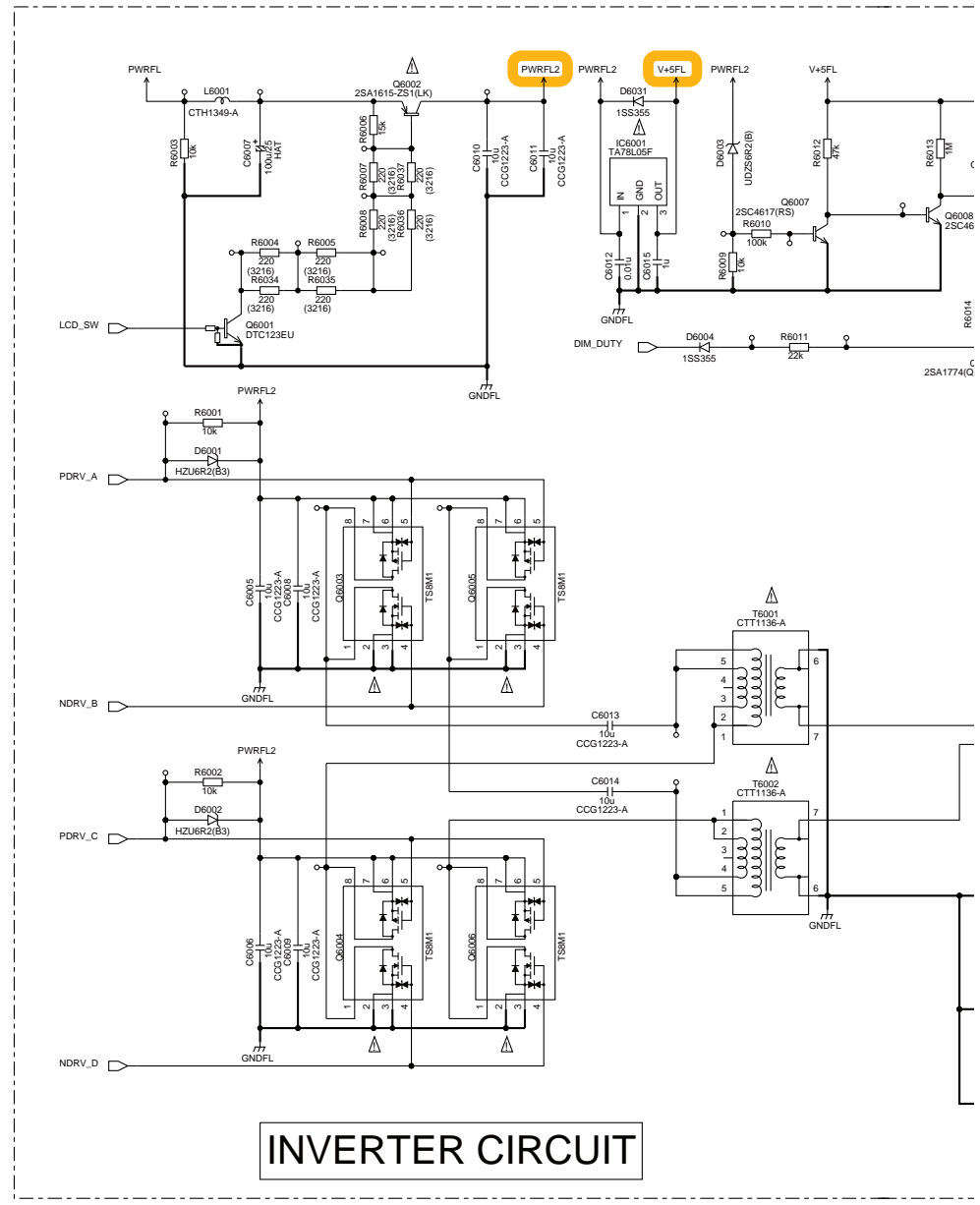
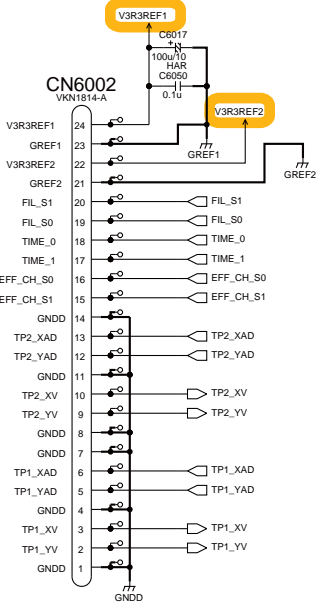
H 1/2 CN3004



H 2/2 CN3010



H 2/2 CN3008



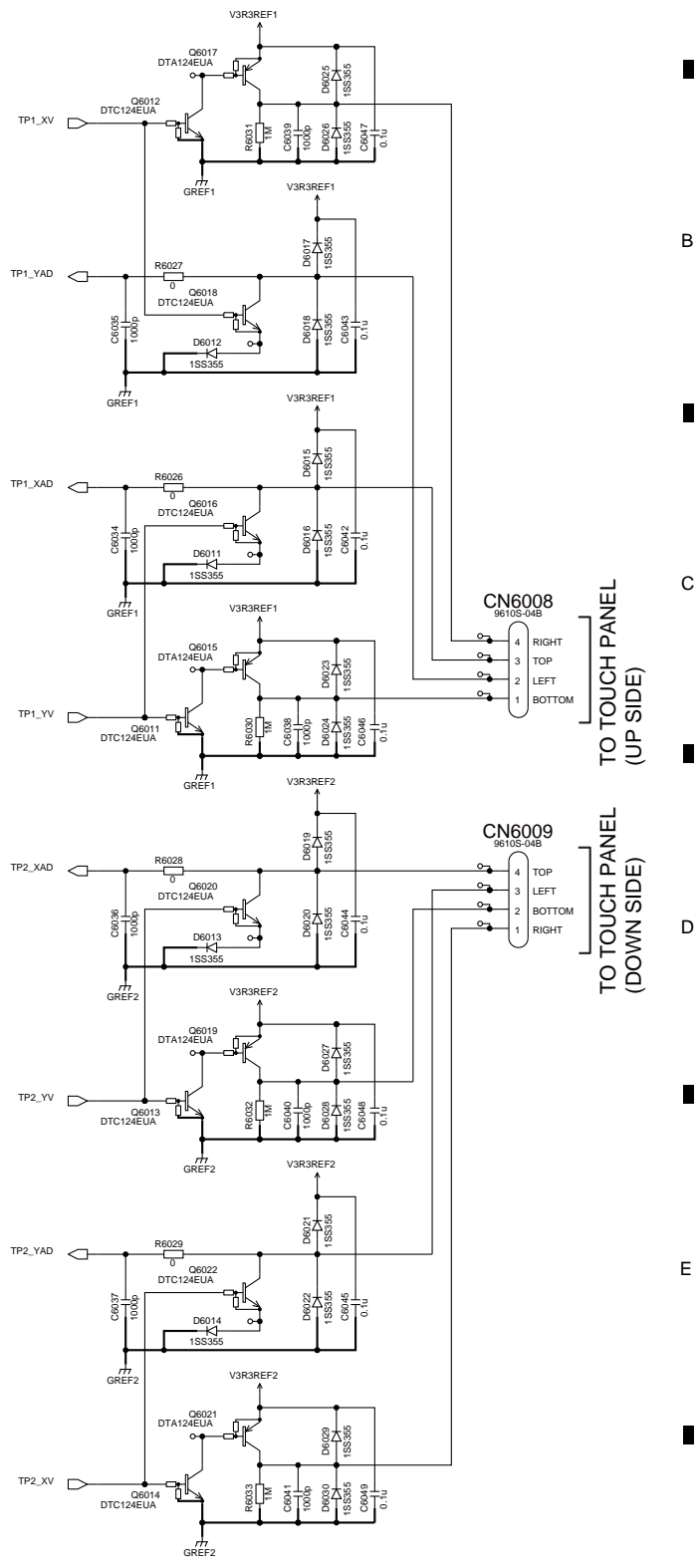
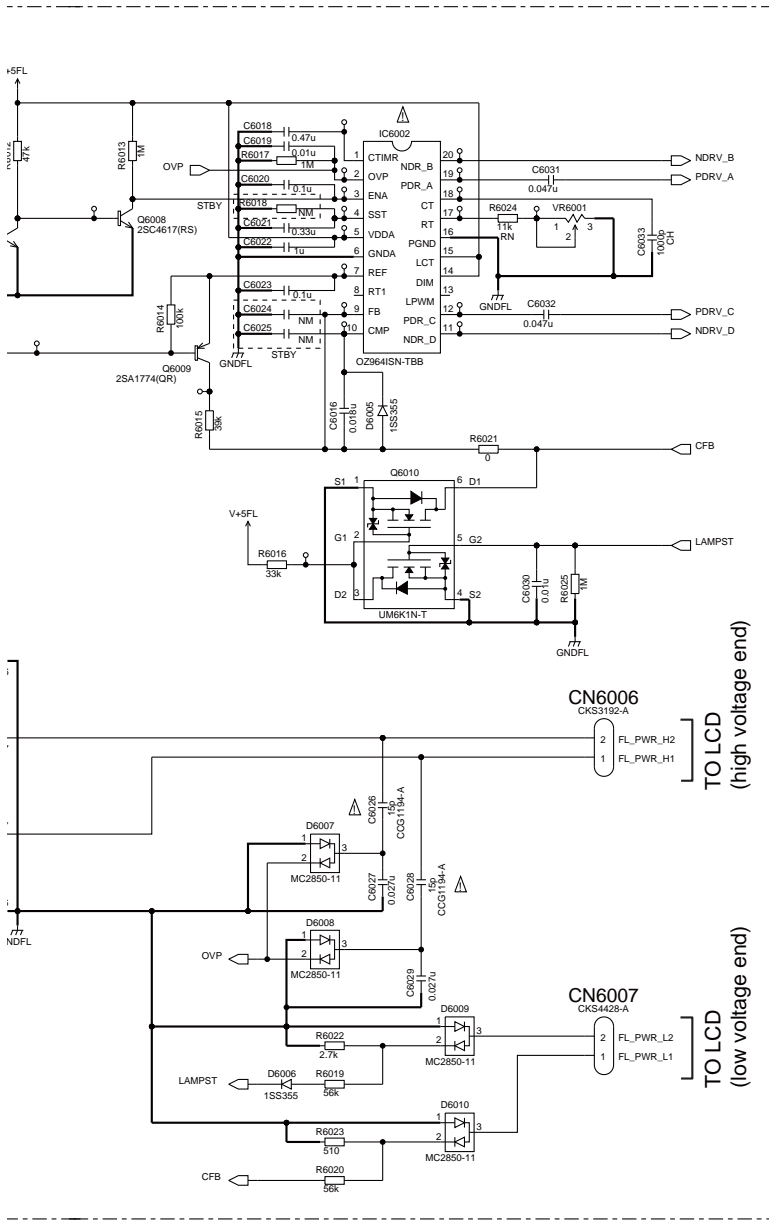
INVERTER CIRCUIT

P

1 2 3 4

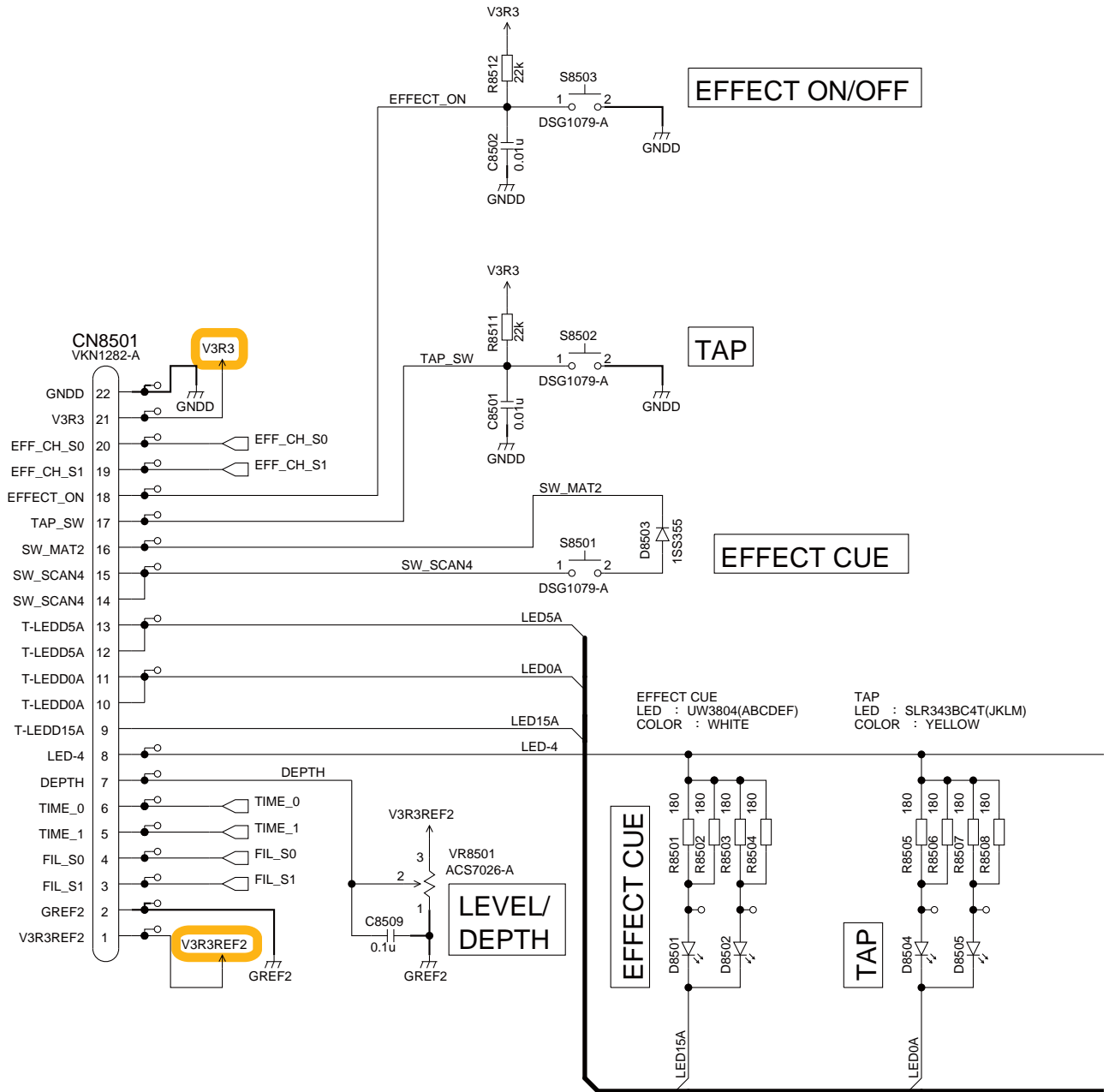
P INVT ASSY (DWX2717)

Notes	
NM	is No Mount
HAR	CEHAR***M F
HAT	CEHAT***M F
CH	CCSRCH***K F
SE	CKSRVB***J F
(3216)	RN1/16SE***D Ω
	RN1/4S***J Ω
	RS1/16S***J Ω



10.28 CTL3R ASSY

Q CTL3R ASSY
(DWX2730)

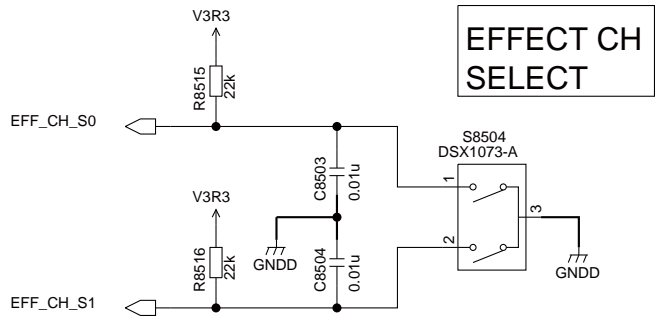
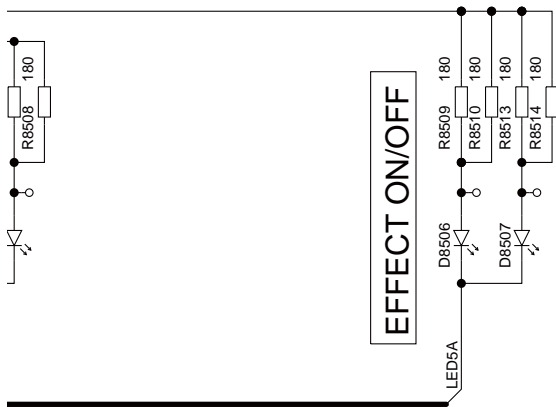


Notes

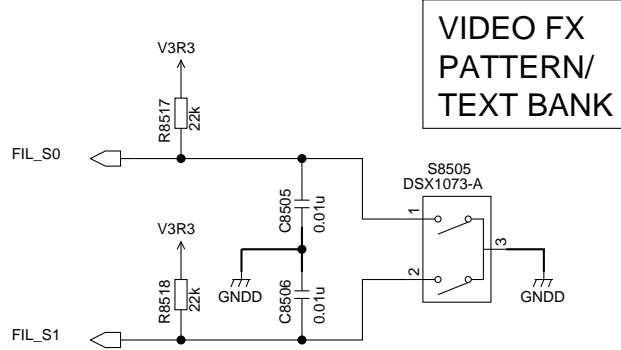
- CKSRYB***K F
- RS1/16S***J Ω

:4T(JKLM)
W

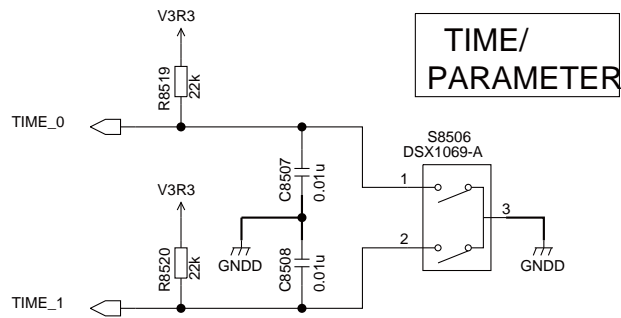
EFFECT ON/OFF
LED : SLI-343YYW(RST)
COLOR : YELLOW



EFFECT CH
SELECT



VIDEO FX
PATTERN/
TEXT BANK



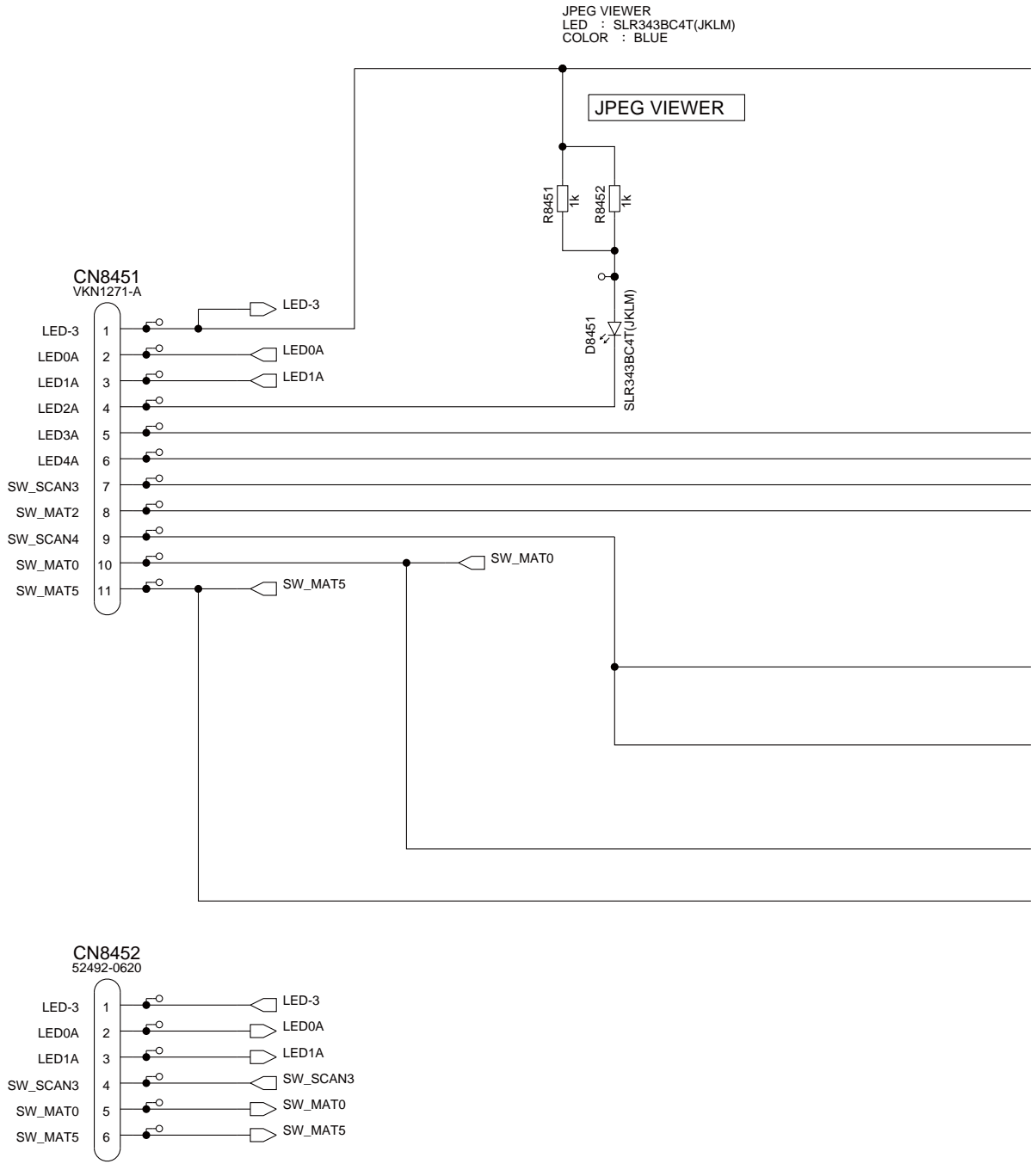
TIME/
PARAMETER

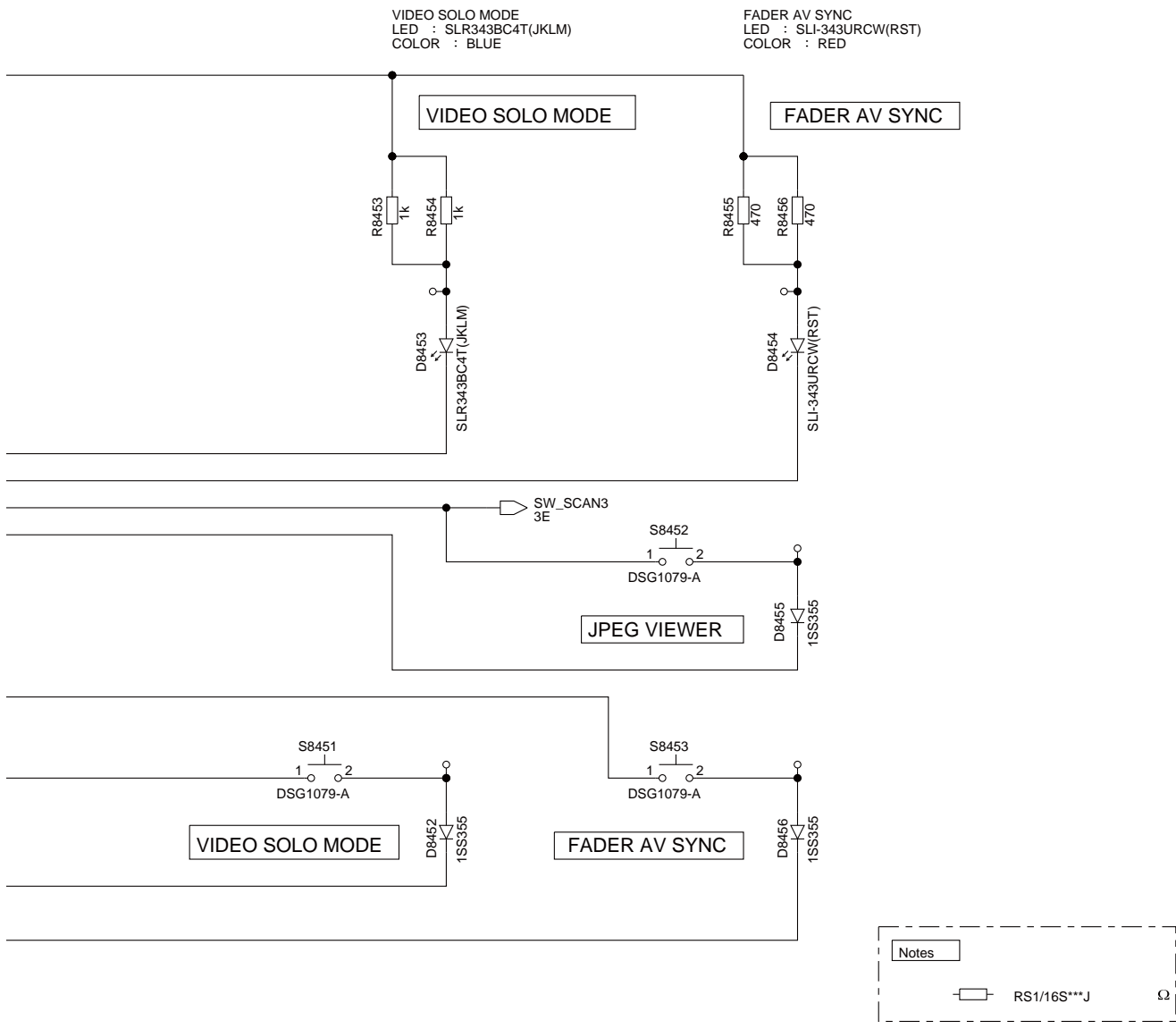
10.29 CTL3LB ASSY

R CTL3LB ASSY
(DWX2745)

P CN6004

S CN8401

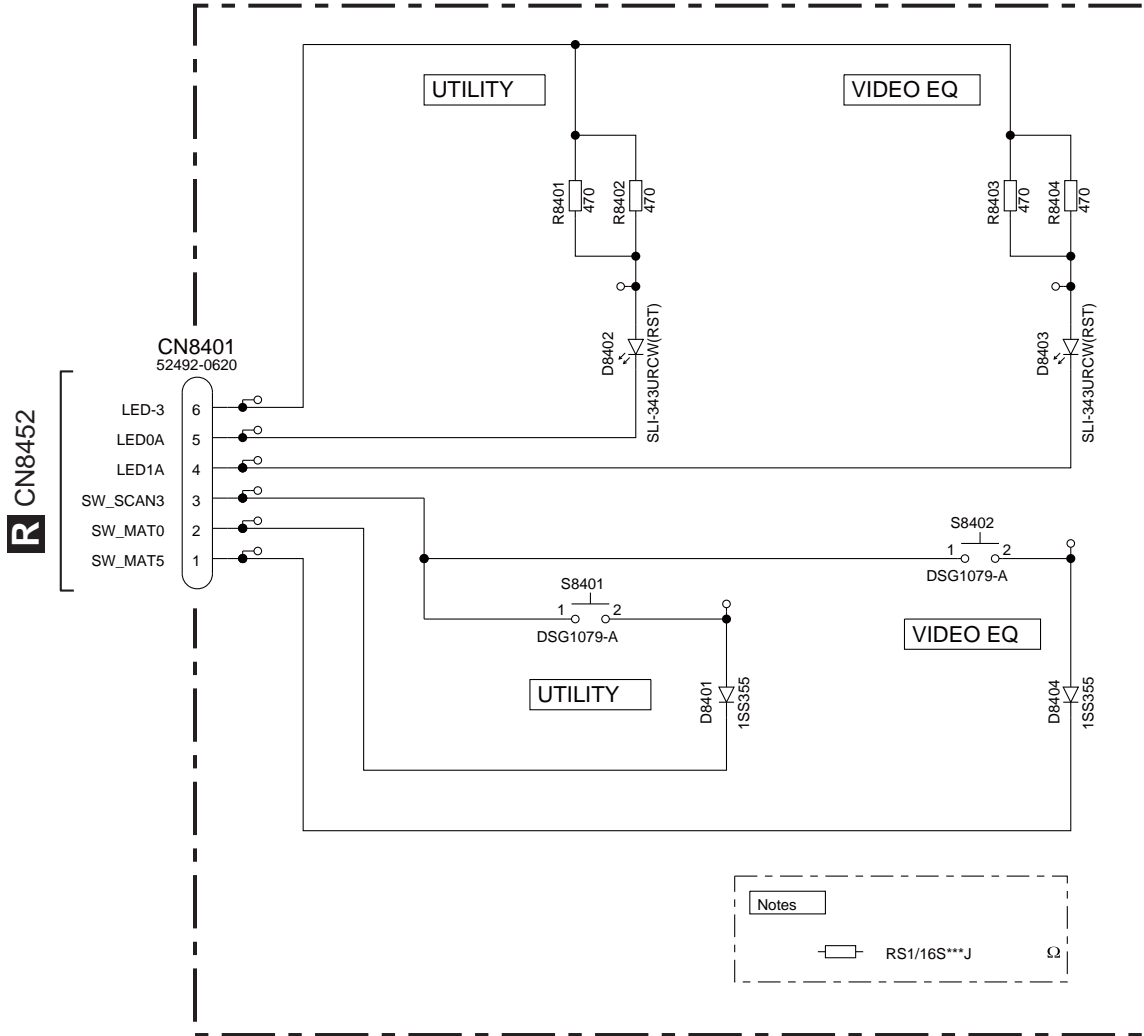




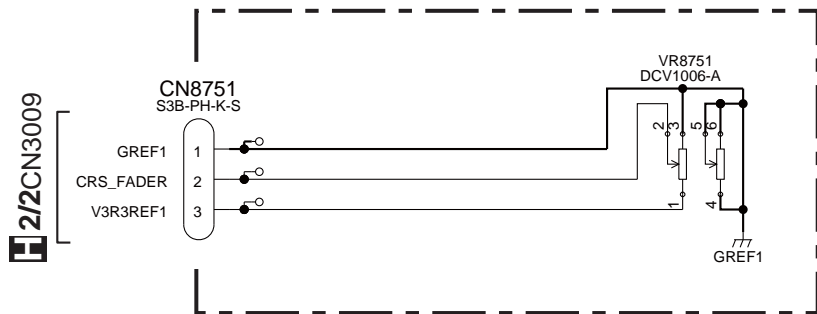
10.30 CTL3LA, CRFD and DIO2 ASSYS

1 2 3 4

S CTL3LA ASSY (DWX2744)

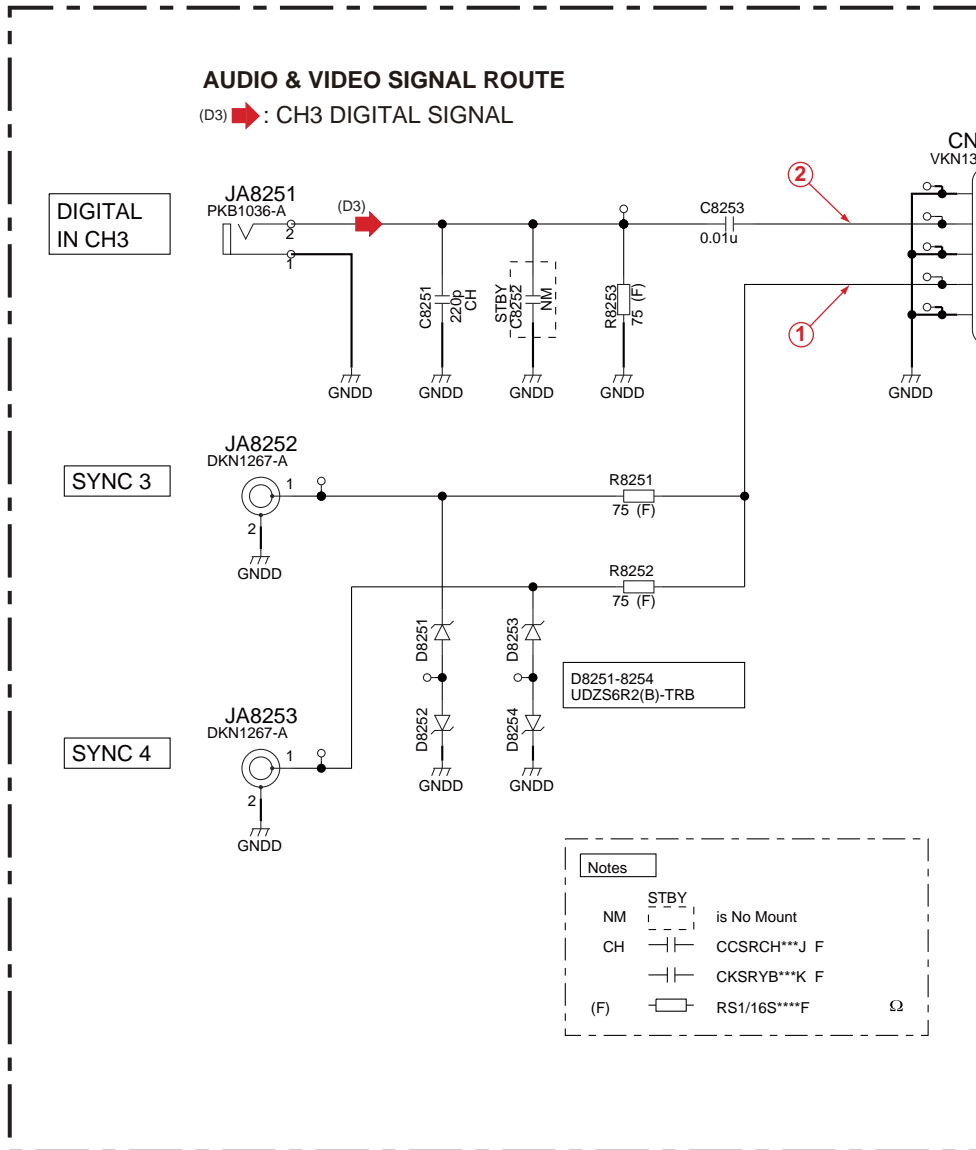


T CRFD ASSY (DWX2739)



U DIO2 ASSY
(DWX2719)

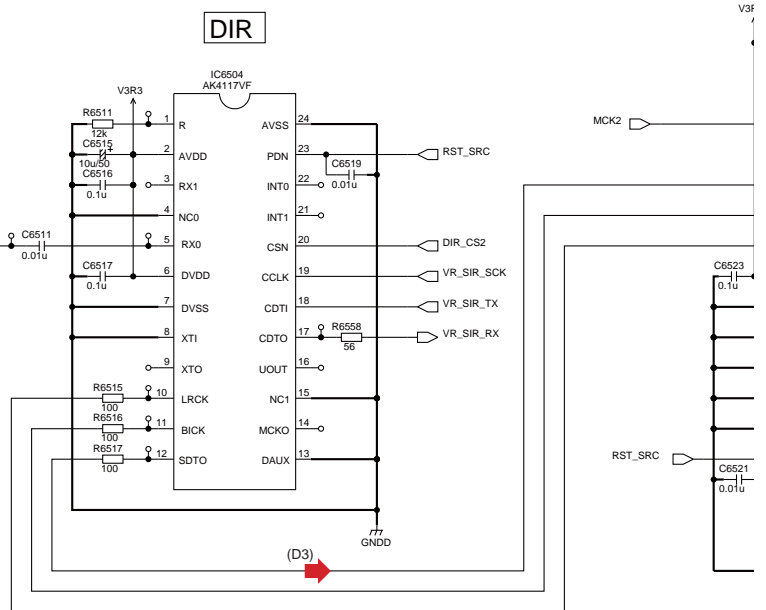
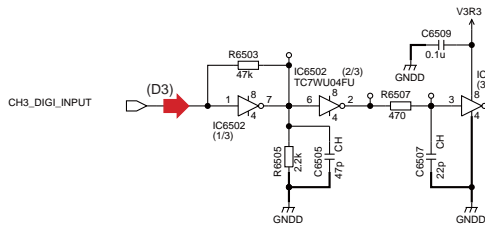
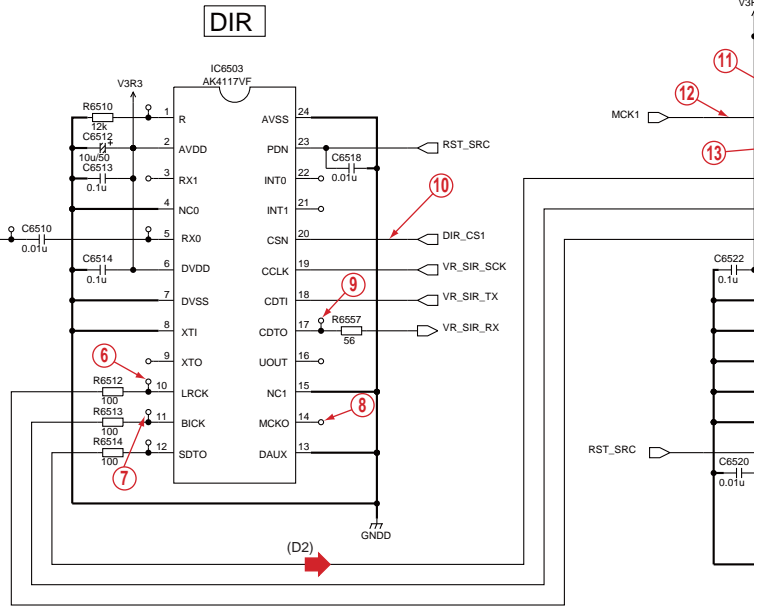
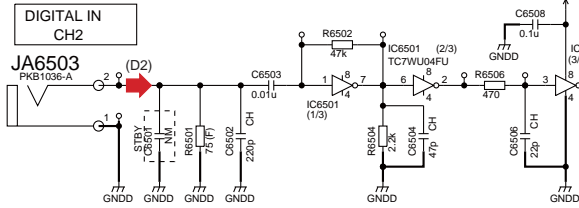
A
B
C
D
E
F



10.31 DIO1 ASSY (1/2)

V 1/2 DIO1 ASSY (DWX2724)

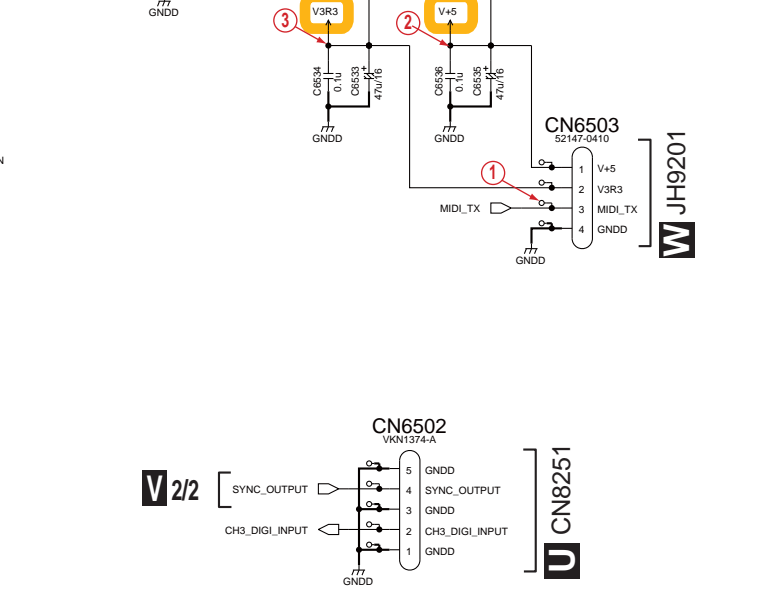
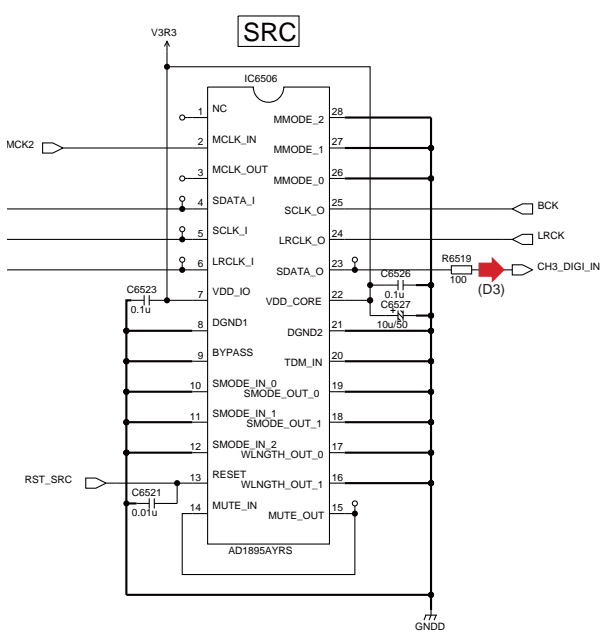
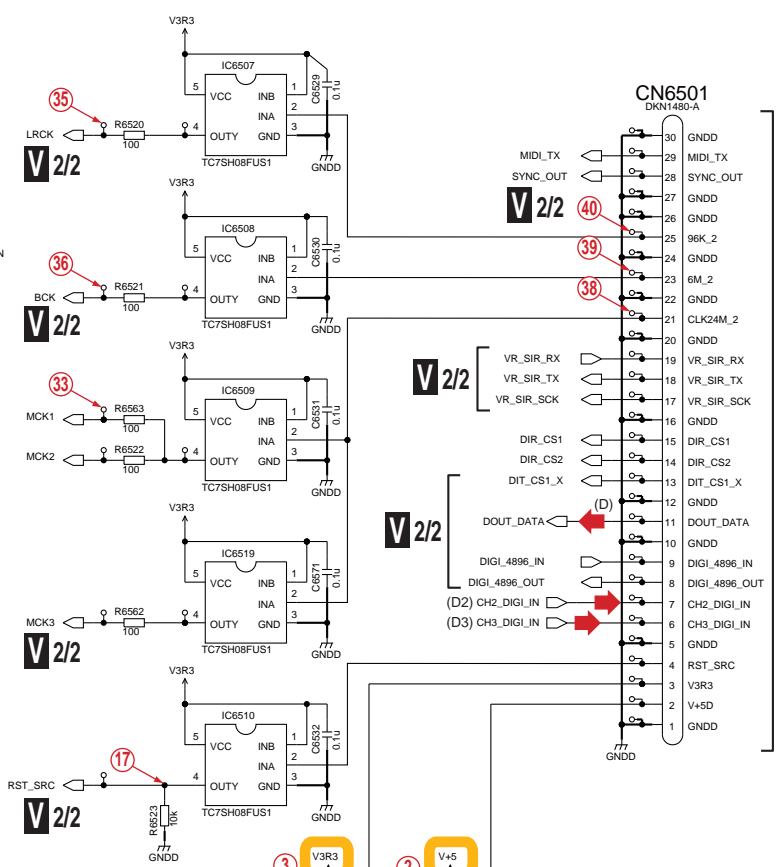
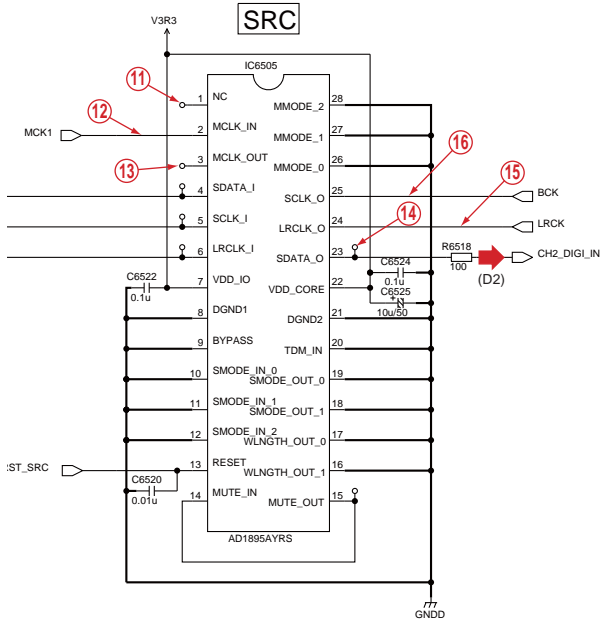
A
B
C
D
E
F



AUDIO & VIDEO SIGNAL ROUTE

- (D2) : CH2 DIGITAL SIGNAL
- (D3) : CH3 DIGITAL SIGNAL
- (D) : DIGITAL CH SIGNAL

Notes	
NM	is No Mount
CH	CSCRCH** F
	CEAT** M F
	CKSRBY** K F
(F)	RS1/16S** F Ω
	RS1/16S** J Ω



CN6501
DKN1480-A

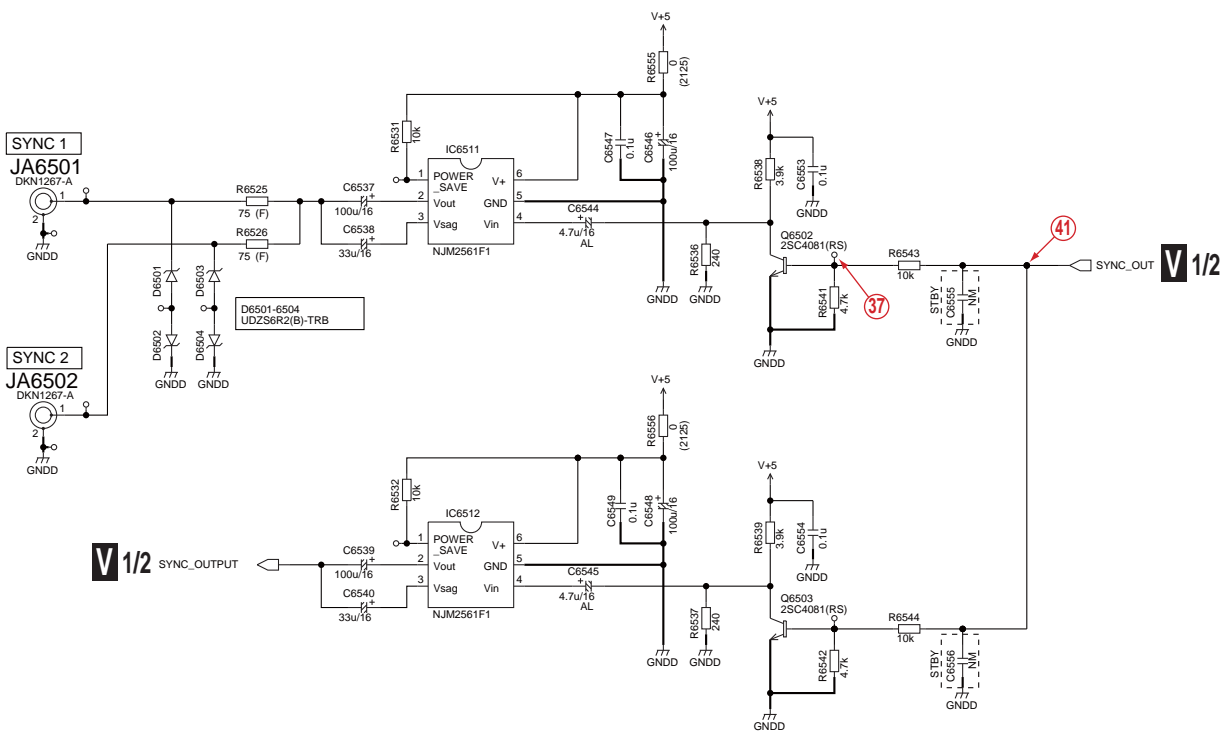
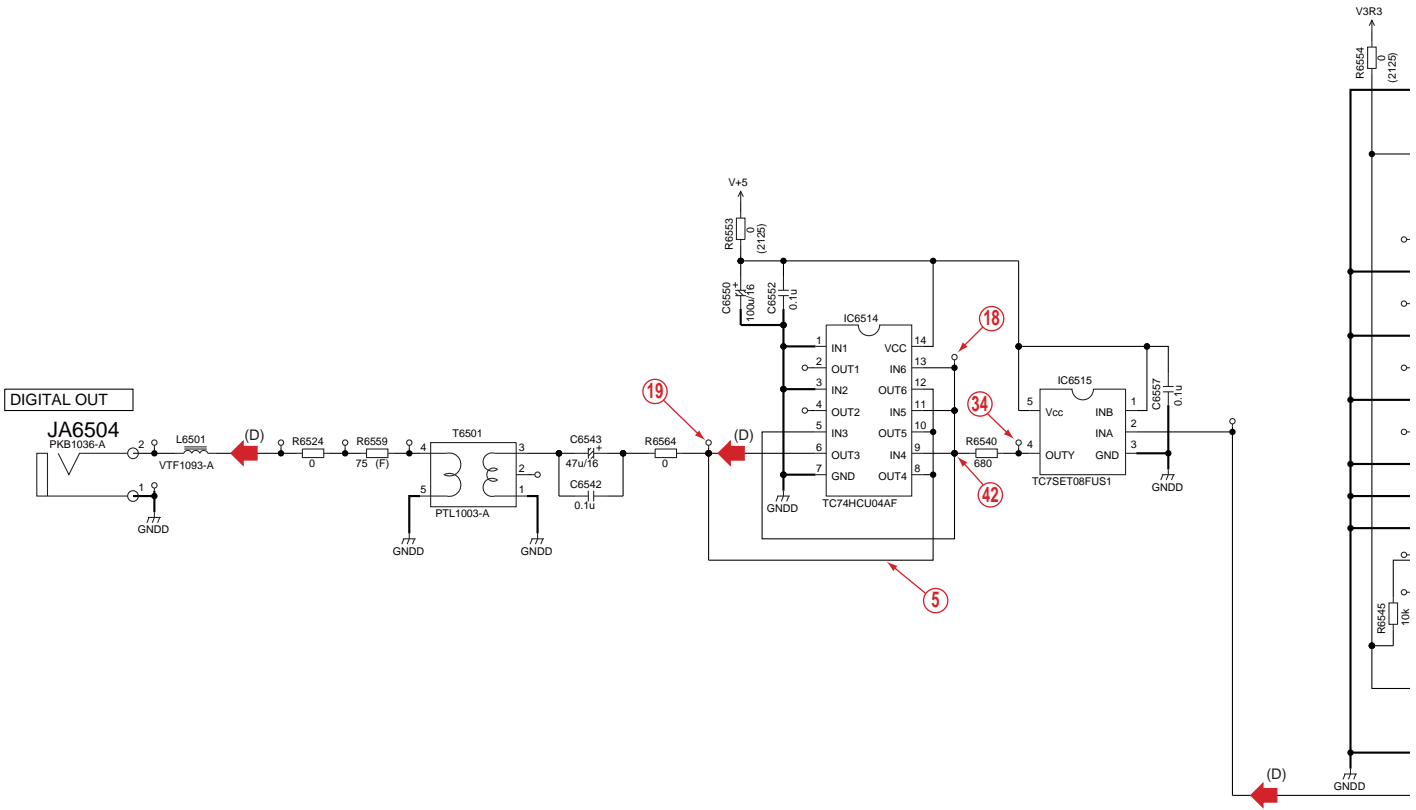
CN6503
52147-0410

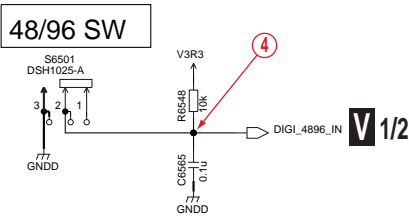
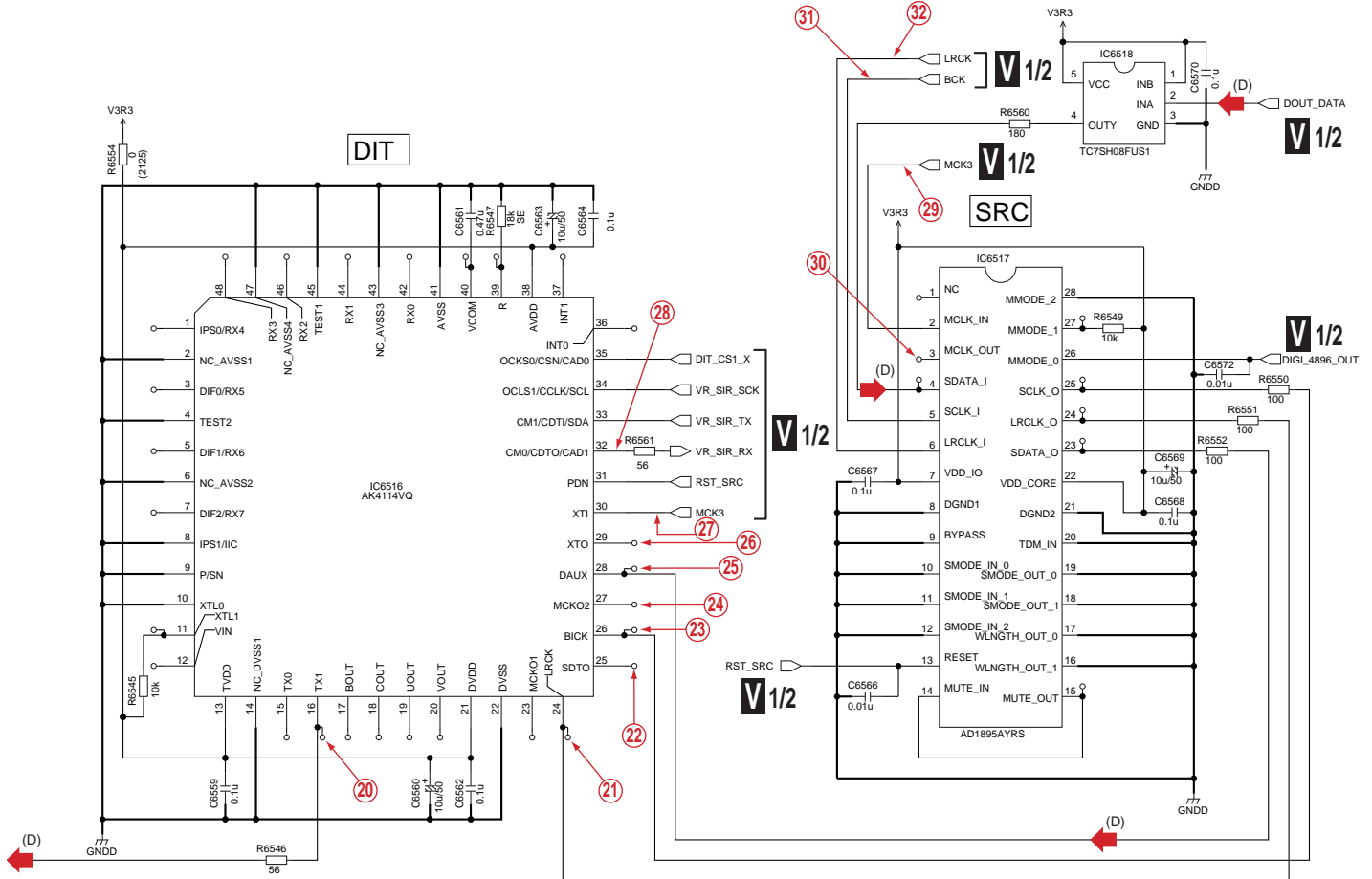
CN8251
VKN1574-A

A
B
C
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F

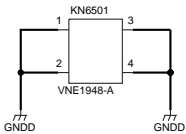
10.32 DIO1 ASSY (2/2)

V 2/2 DIO1 ASSY (DWX2724)





SCREW PLATE

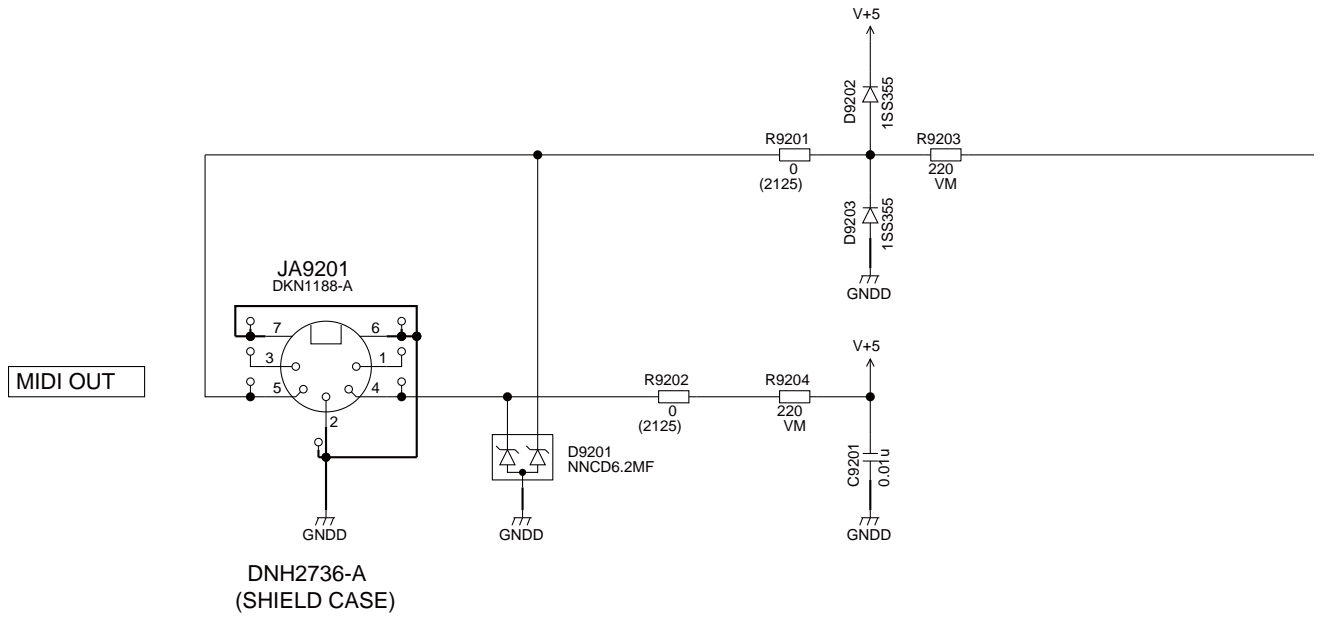


Notes	
NM	STBY_1 is No Mount
AL	CEAL***M F
	CEAT***M F
	CKSRVB***K F
SE	RN1/16SE***D Ω
(2125)	RS1/10S***J Ω
(F)	RS1/16S***F Ω
	RS1/16S***J Ω

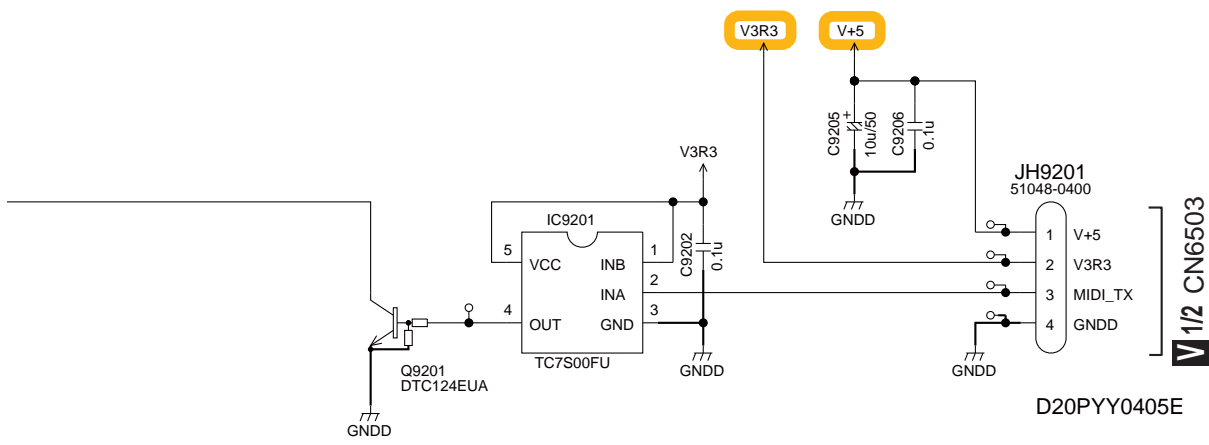
AUDIO & VIDEO SIGNAL ROUTE
 (D) ➔ : DIGITAL CH SIGNAL

10.33 MIDI ASSY

W MIDI ASSY
(DWX2751)

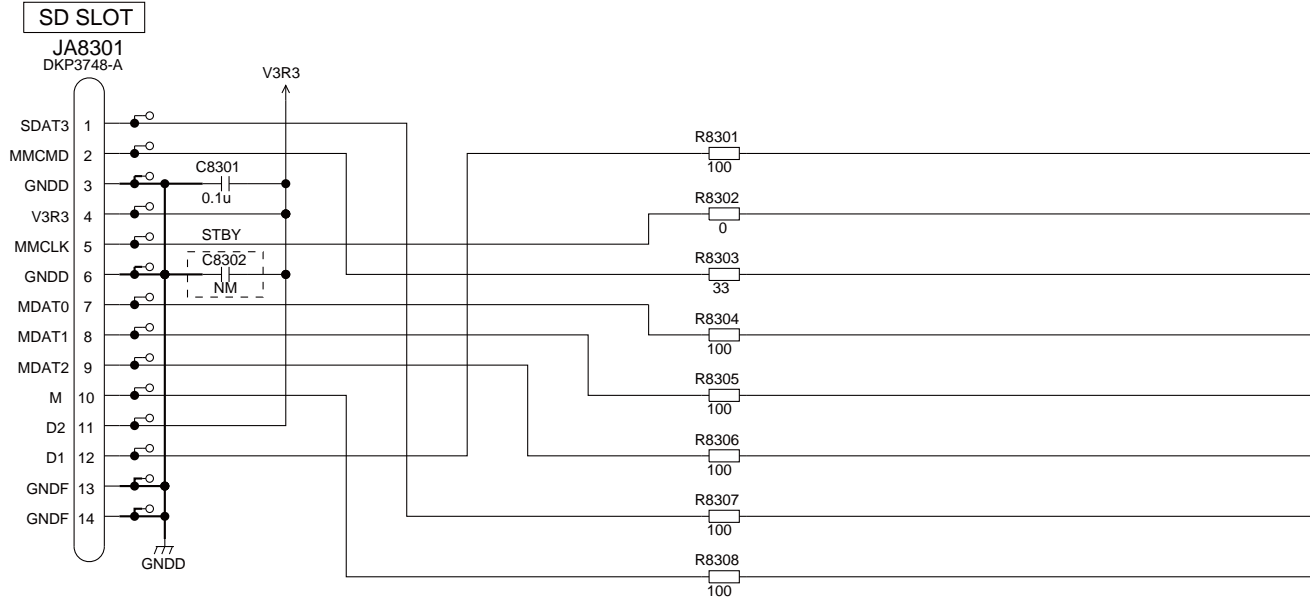


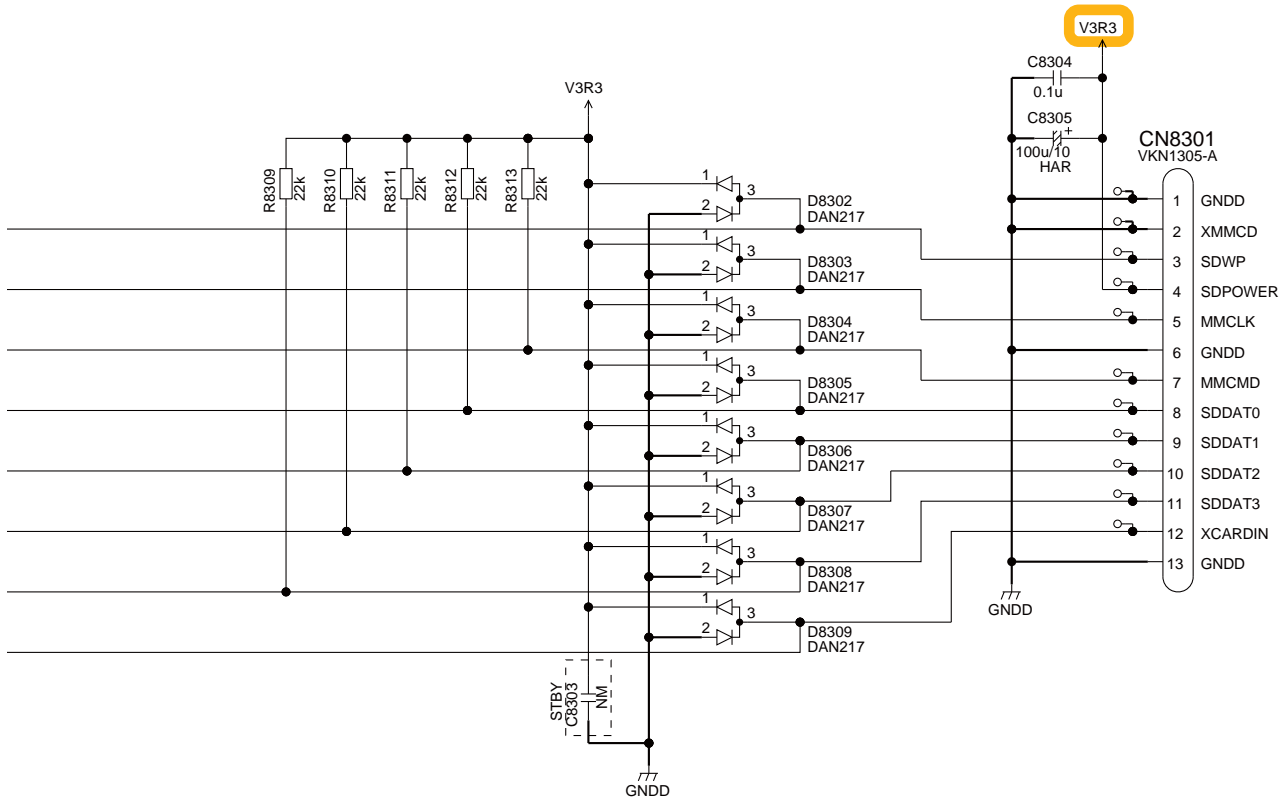
Notes	
	CEAT***M F
	CKSRYB***K F
VM	RD1/2VM***J Ω
(2125)	RS1/10S***J Ω



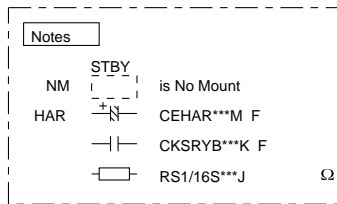
10.34 SDIO ASSY

X SDIO ASSY
(DWX2728)



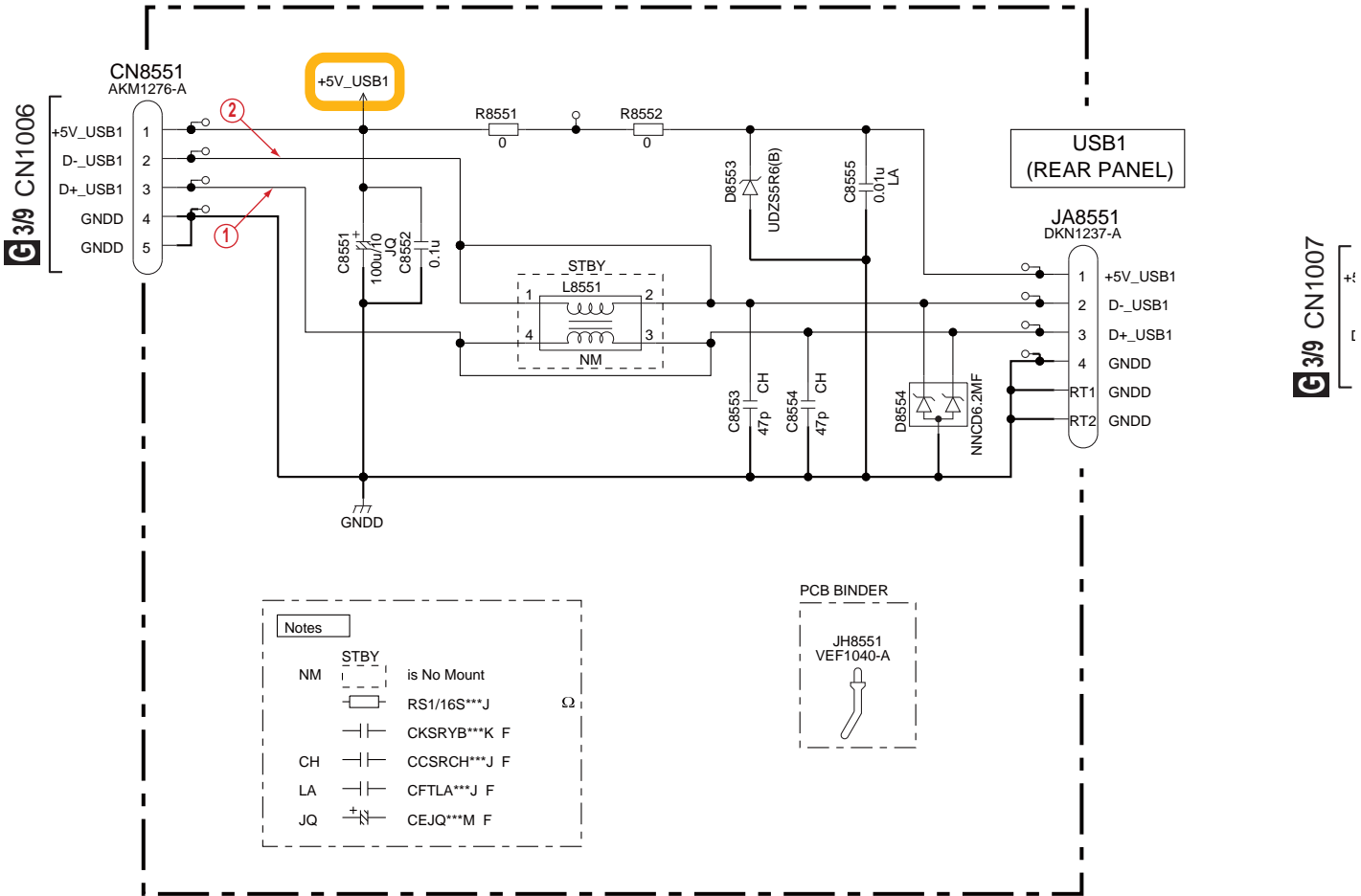


G3/9 CN1008

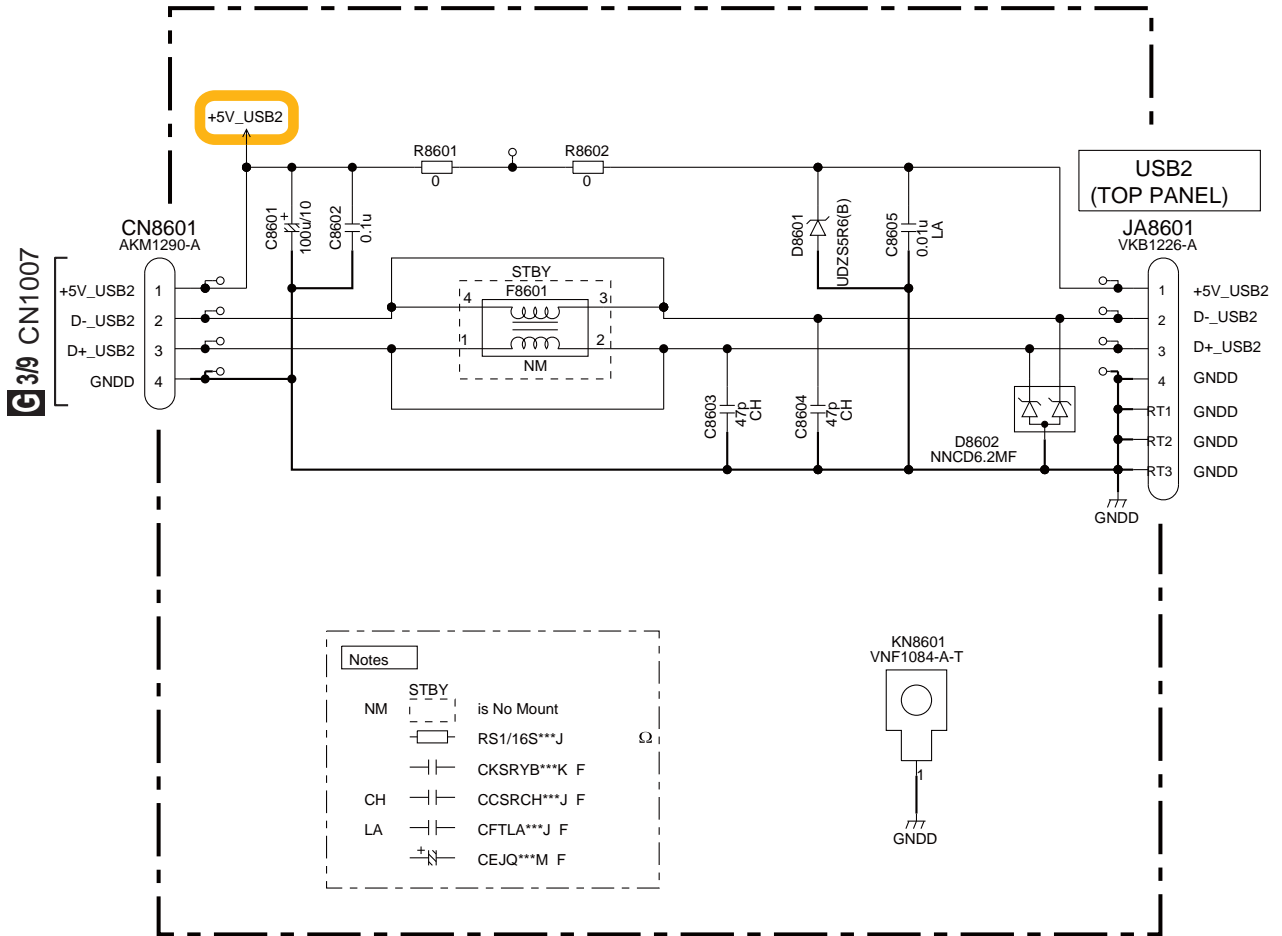


10.35 USB1 and USB2 ASSYS

Y USB1 ASSY (DWX2727)

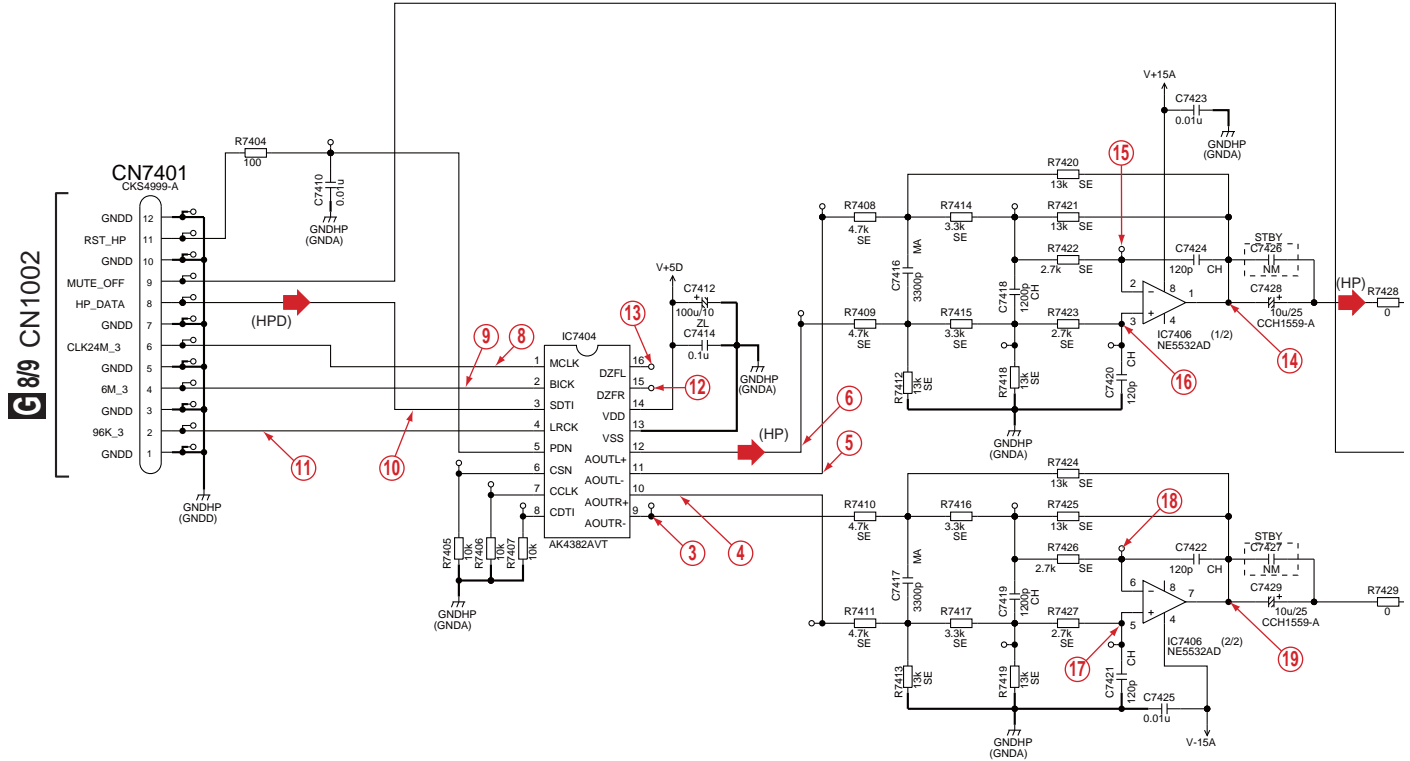


Z USB2 ASSY (DWX2720)

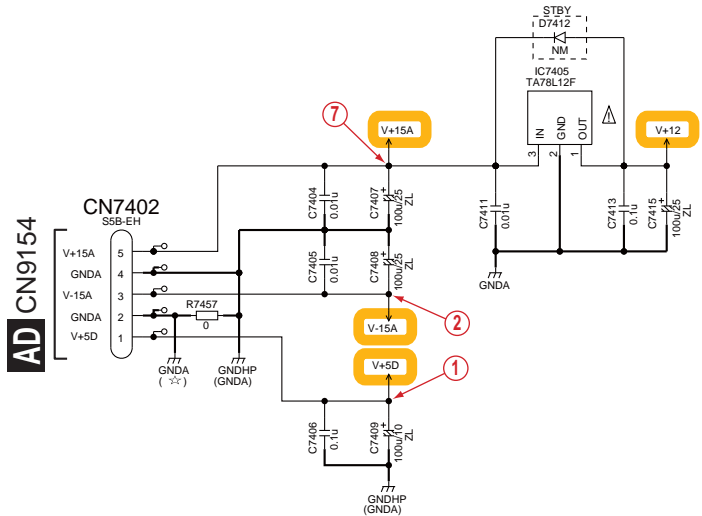


10.36 HAMP ASSY

AA HAMP ASSY
(DWX2726)

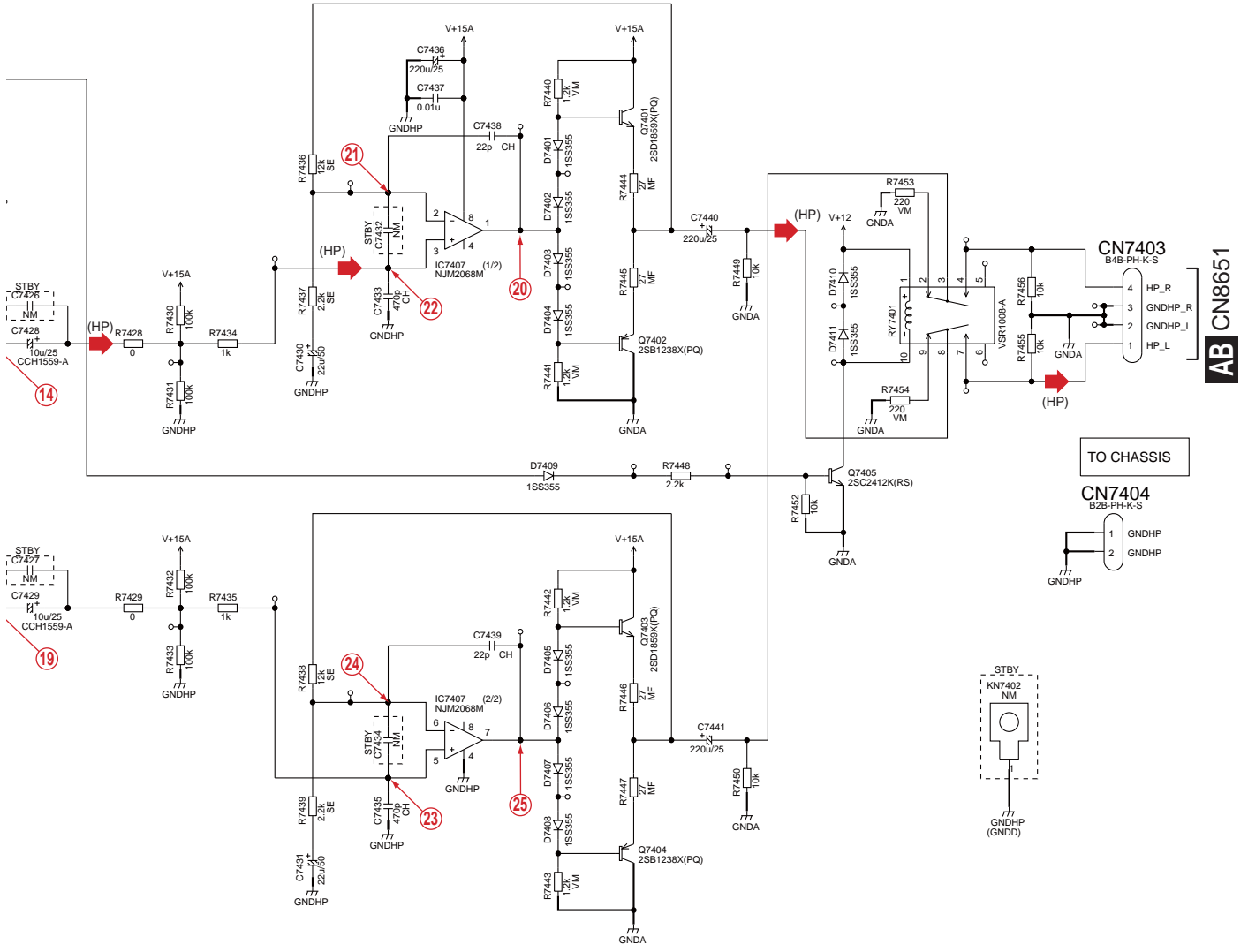


15V → 12V



Notes	
NM	is No Mount
CH	CCSRCH***J F
	CEAT***M F
ZL	CEHAZL***M F
	CKSRVB*** // F
MA	QOMA***J F
VM	RD1/2VM***J Ω
SE	RN1/16SE***D Ω
	RS1/16S***J Ω
MF	RS2LMF***J Ω

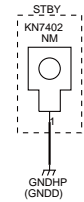
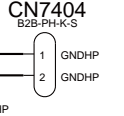
AA



AUDIO & VIDEO SIGNAL ROUTE
 (HP) ➡ : HP L CH SIGNAL
 (HPD) ➡ : HP DIGITAL CH SIGNAL

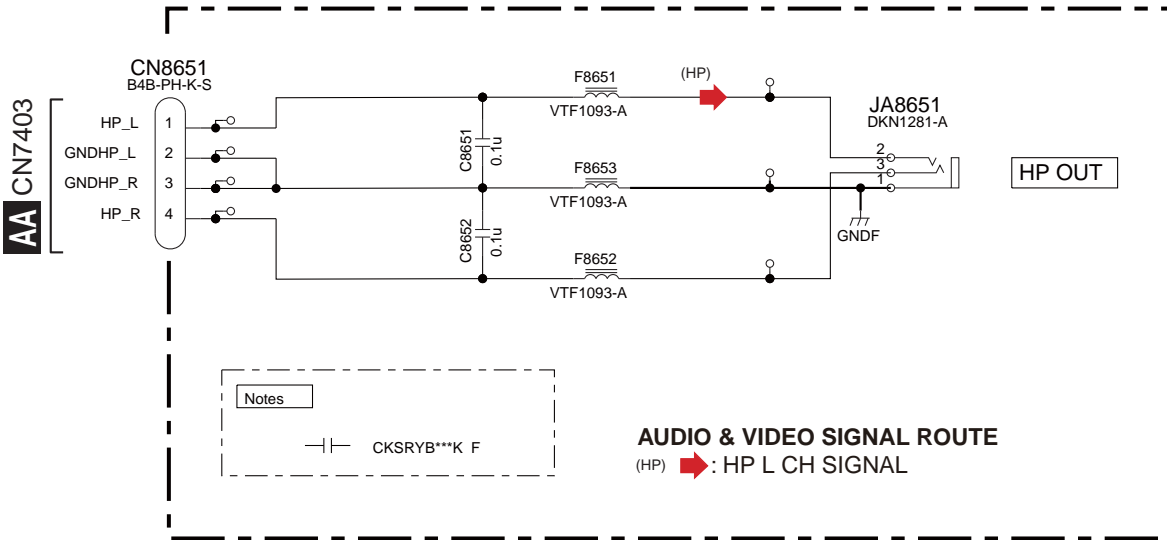
AB CN8651

TO CHASSIS



10.37 MJCK and ACSW ASSYS

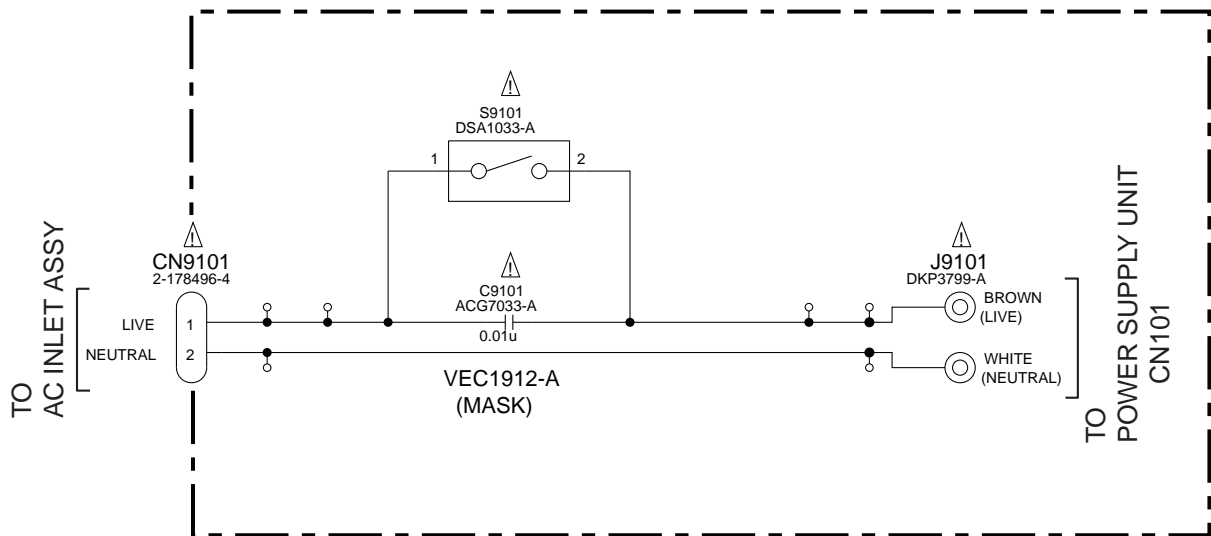
AB HJCK ASSY
(DWX2734)



TO

AC ACSW ASSY
(DWX2737)

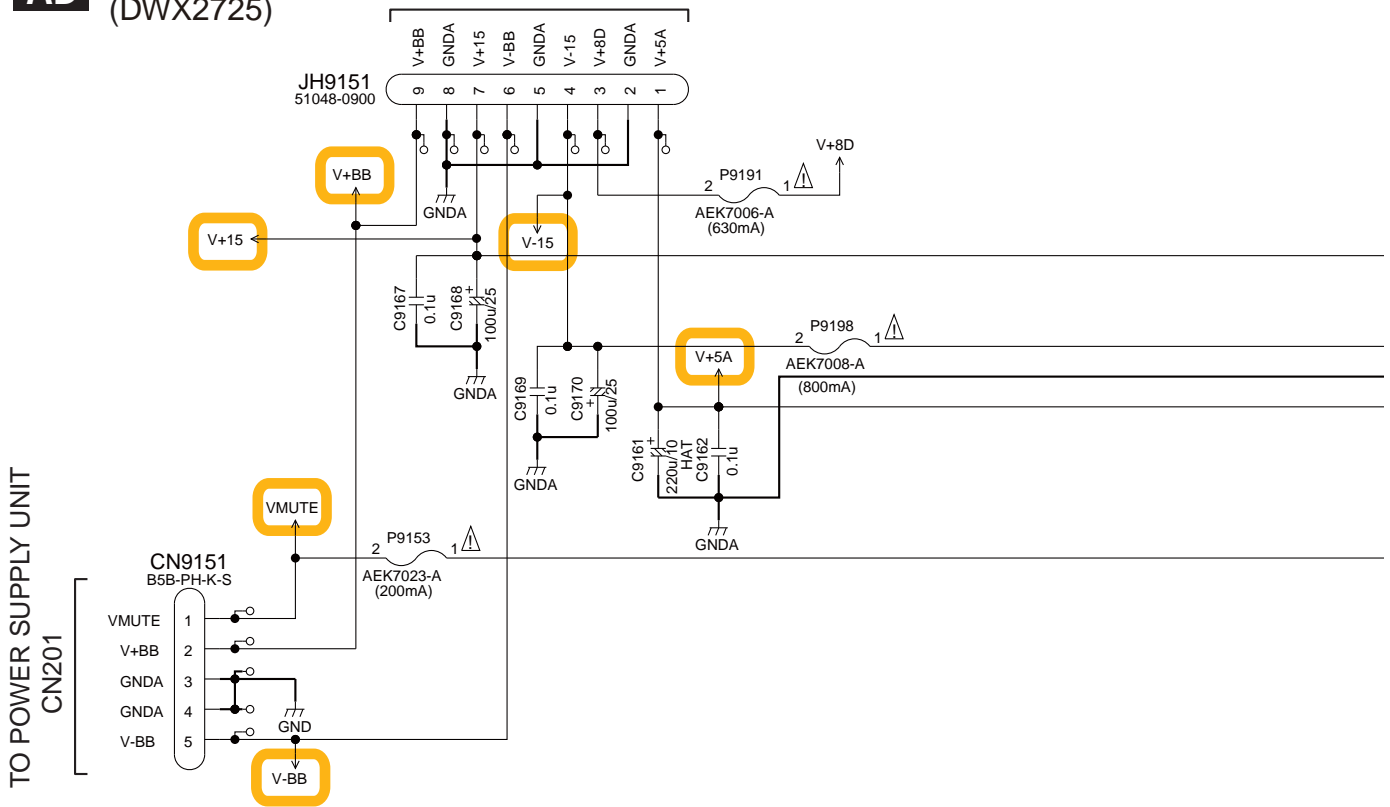
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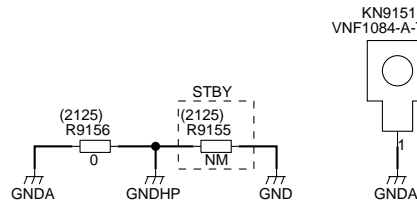
10.38 PDIV ASSY

AD PDIV ASSY (DWX2725)

AE JH9501



Ref Number	Part Number	Ampere Rating
P9153	AEK7023-A	200mA
P9157	AEK7010-A	1.25A
P9191	AEK7006-A	630mA
P9192	AEK7006-A	630mA
P9193	AEK7006-A	630mA
P9194	AEK7023-A	200mA
P9195	AEK7012-A	1.60A
P9196	AEK7013-A	2.00A
P9197	AEK7014-A	2.50A
P9198	AEK7008-A	800mA
P9199	AEK7006-A	630mA



Notes

NM is No Mount

CEHAT***M F

CKSRYB***K F

(2125) RS1/10S***J Ω

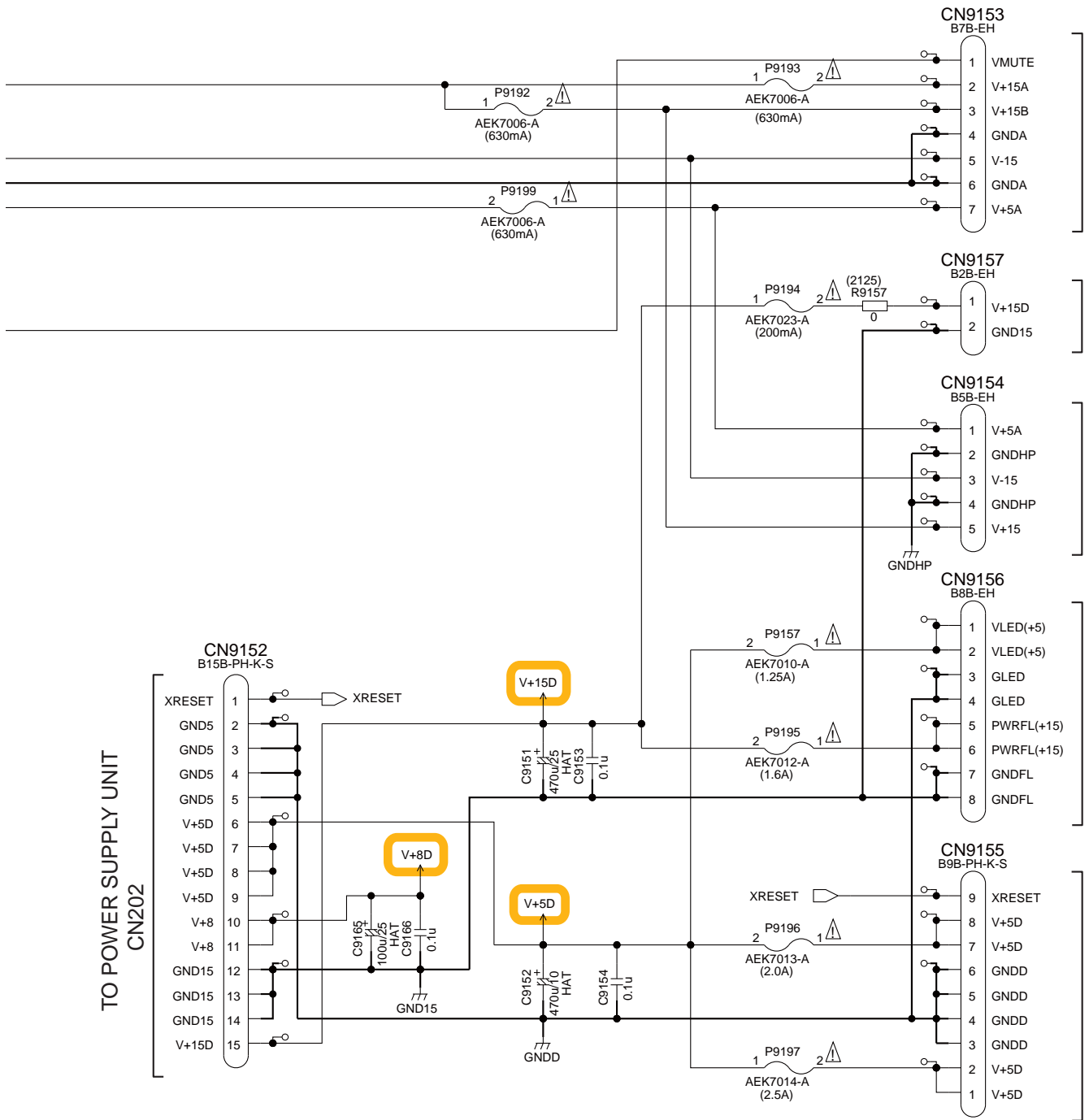
TO POWER SUPPLY UNIT
CN201

CAUTION

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE NO.

- 49102.5 MFD. BY LITTELFUSE INC. FOR P9197
- 491002. MFD. BY LITTELFUSE INC. FOR P9196
- 4911.25 MFD. BY LITTELFUSE INC. FOR P9157
- 49101.6 MFD. BY LITTELFUSE INC. FOR P9195
- 491.630 MFD. BY LITTELFUSE INC. FOR P9191, P9192, P9193, P9199
- 491.800 MFD. BY LITTELFUSE INC. FOR P9198
- 491.200 MFD. BY LITTELFUSE INC. FOR P9153, AND P9194

AD



B3/5 CN5009

AF CN9001

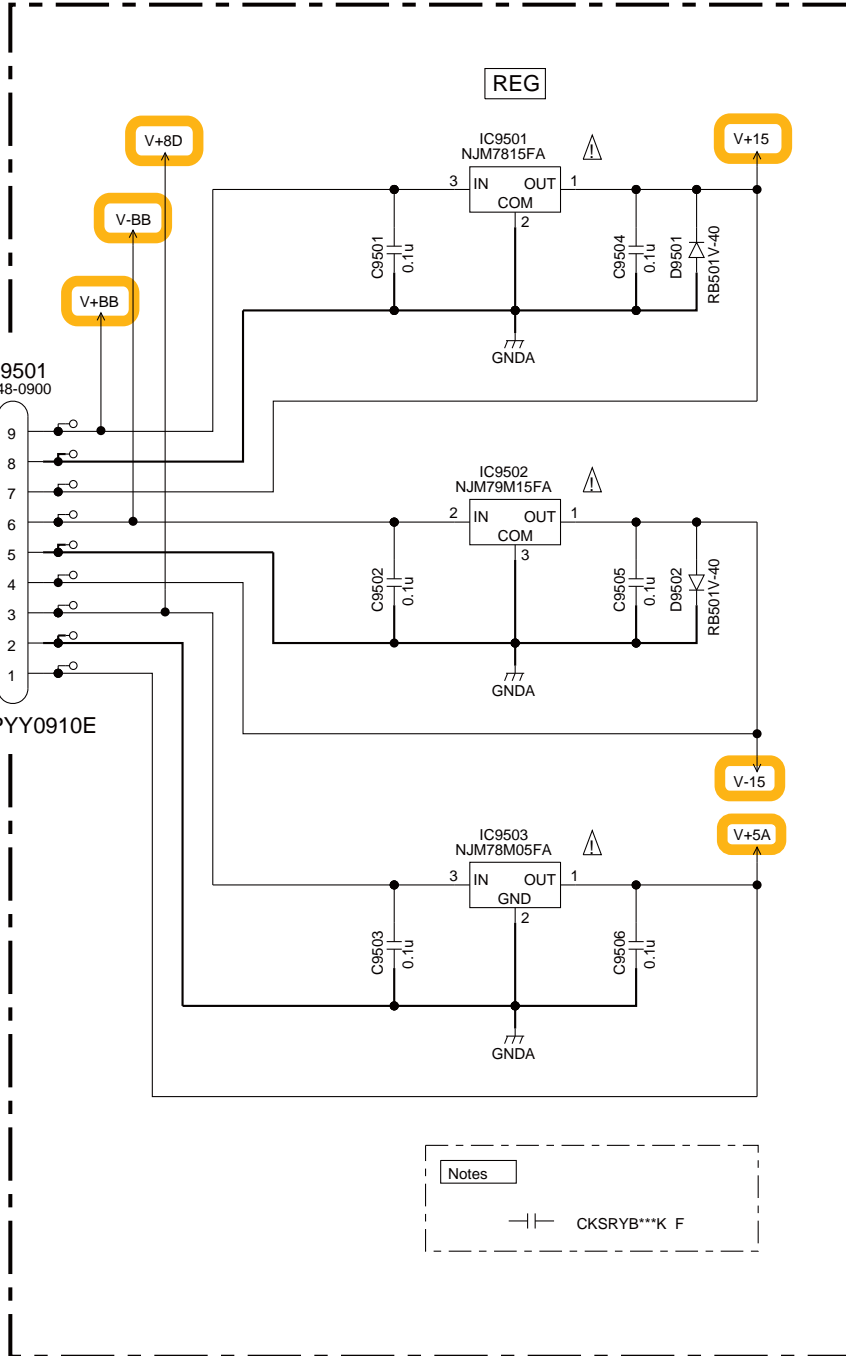
AA CN7402

H1/2 CN3005

G9/9 CN1017

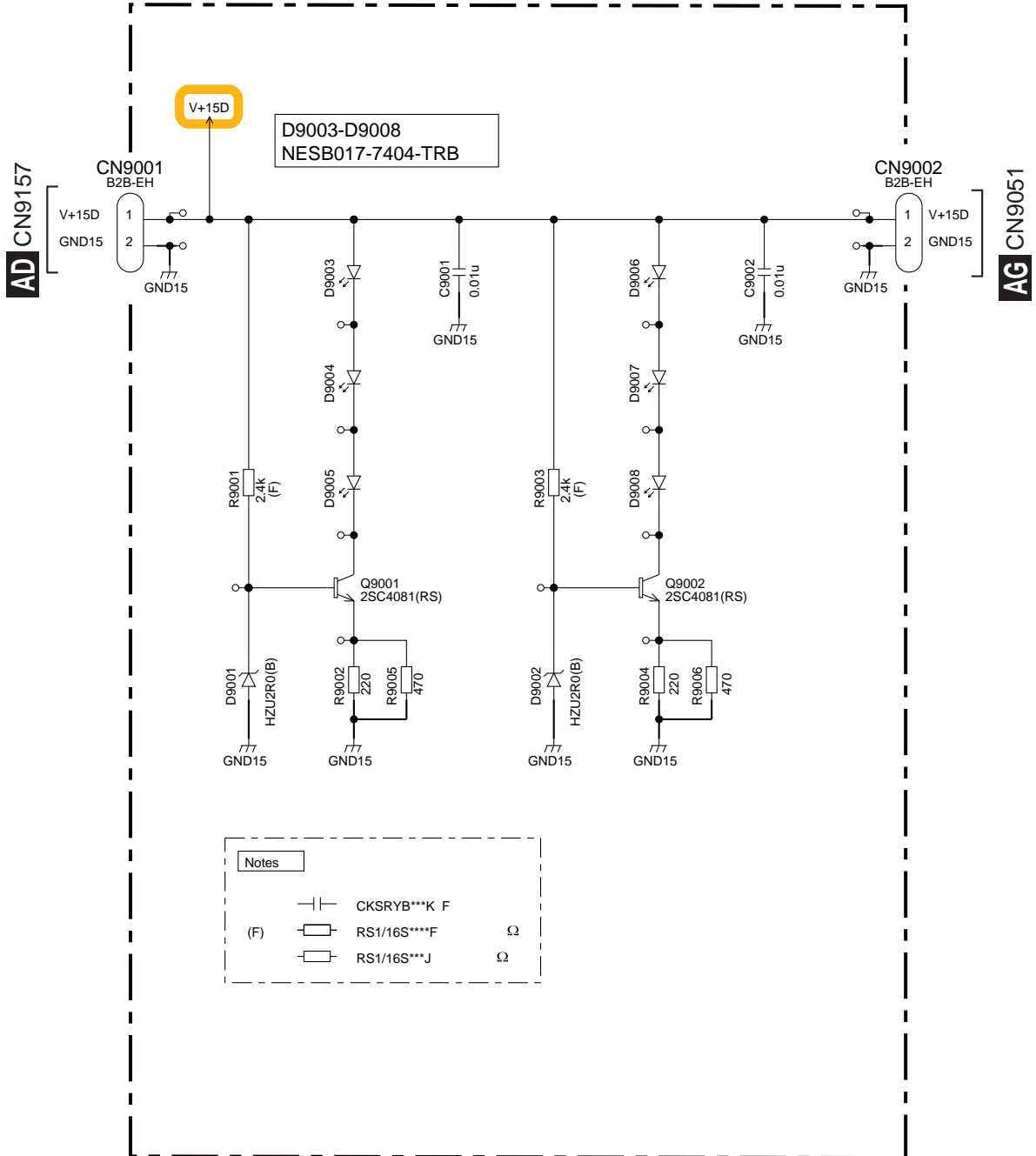
10.39 REG and ILMR ASSYS

AE REG ASSY
(DWX2767)



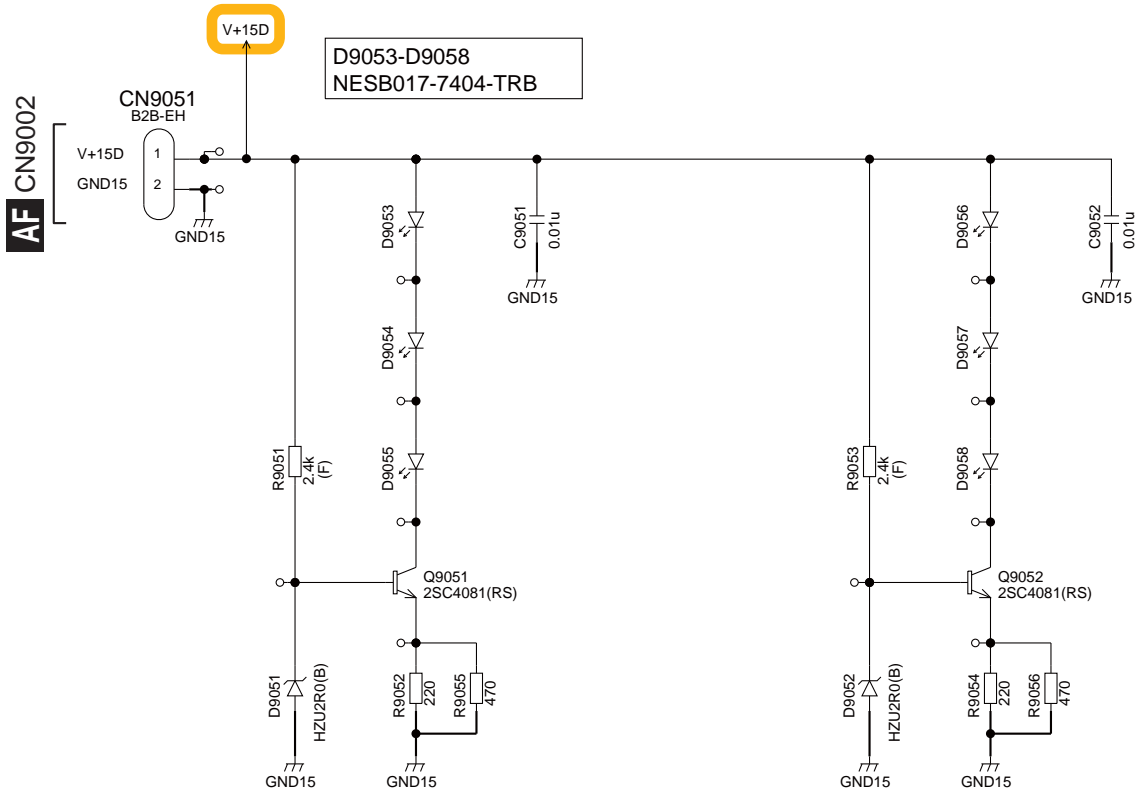
AD CN9157

AF ILMR ASSY
(DWX2722)



10.40 ILML ASSY

AG ILML ASSY
(DWX2723)



Notes	
	CKSRYB***K F
(F)	RS1/16S***F Ω
	RS1/16S***J Ω

■

5

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6

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A

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SVM-1000

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7

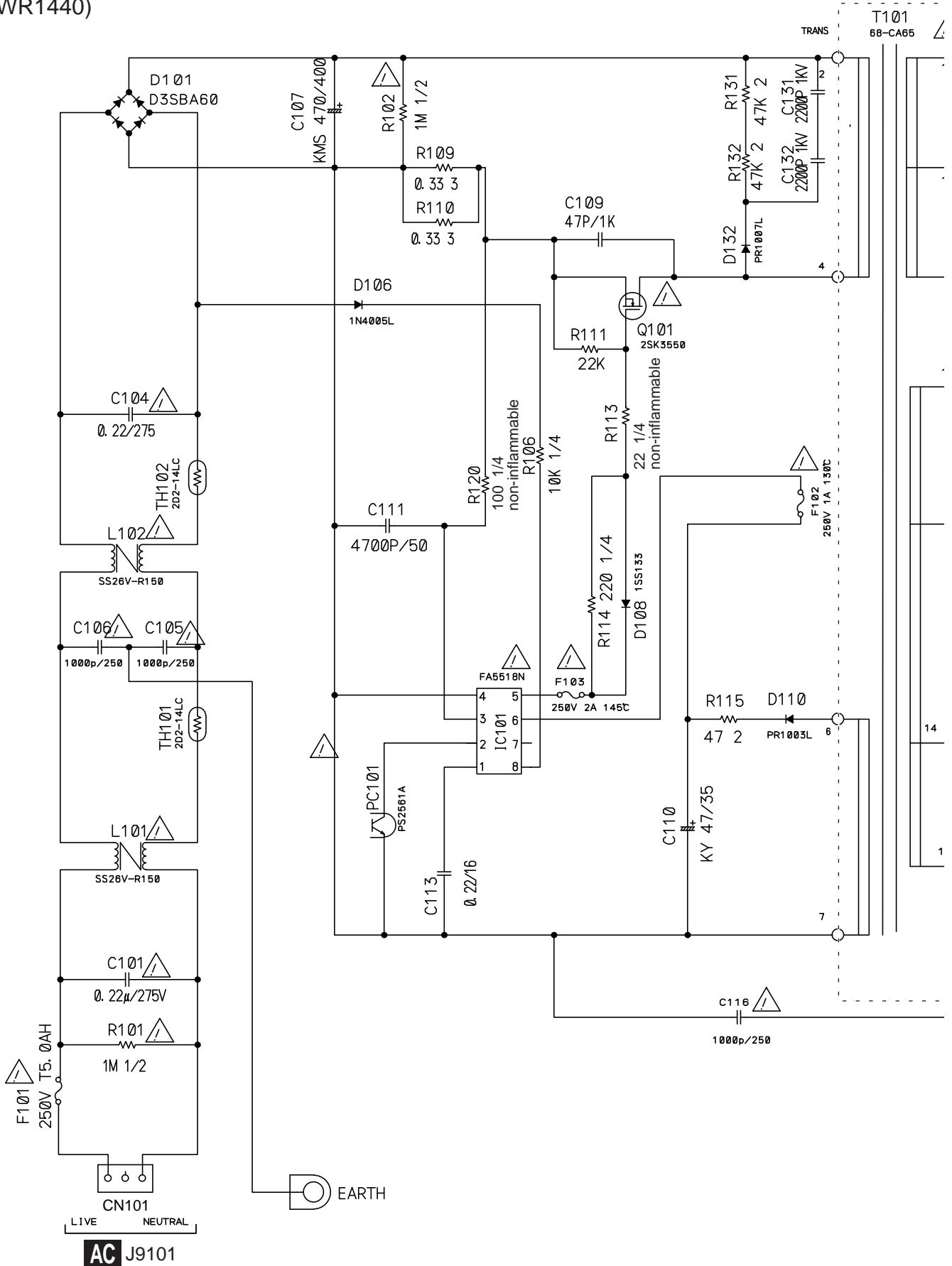
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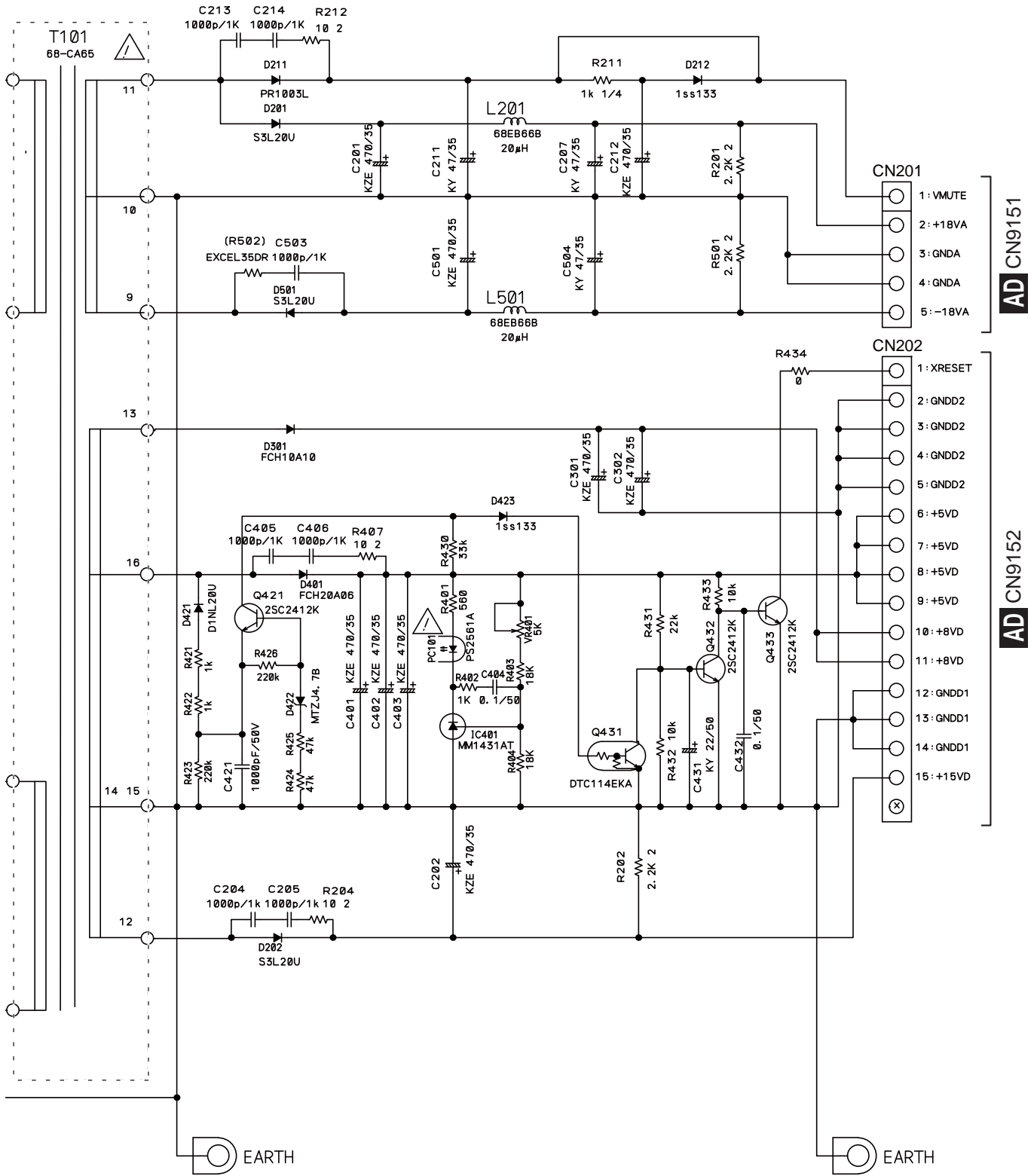
8

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10.41 POWER SUPPLY UNIT

POWER SUPPLY UNIT (DWR1440)





AD CN9151

AD CN9152

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F

10.42 VOLTAGES

Measurement Condition

Input connectors	DVD/LINE	Nothing
	PHONO	Nothing
	DIGITAL IN	Nothing
	MIC1	Nothing
	MIC2	Nothing
Output connectors	MASTER1	Nothing
	MASTER2	Nothing
	REC	Nothing
	BOOTH	Nothing
	DIGITAL OUT	Nothing
	HP	Nothing
MIC	MIC LEVEL1	Max.
	MIC LEVEL2	Max.
	MIC EQ HI	Center
	MIC EQ LOW	Center
	MIC	OFF
FADER ST.		All Ch OFF
HP	HP MONO/STEREO	STEREO
	MIXING	Center
	LEVEL	Max.
CH	INPUT SELECT	All Fully counter clock wise direction
	TRIM	Max.
	EQ HI	Center
	EQ MID	Center
	EQ LOW	Center
	VIDEO TRIM	Center
	CUE	OFF
	FADER	Max.
	CROSS FADER ASSIGN	All Ch THRU
CROSS FADER ASSIGN		Center
MASTER	LEVEL	Max.
	BALANCE	Center
	CUE	OFF
	MONO/STEREO	STEREO
BOOTH MONITOR		Max.
CH FADER CURVE		Center
CRS FADER CURVE		Center
REAR	MASTER ATT	0 dB
	DIGITAL OUT fs(Hz)	96 k
EFFECT	AUTO/TAP	AUTO
	CUE	OFF
	EFFECT	DERAY
	CHANNEL	1
	TIME	-
	ON/OFF	OFF(Lighting)

A AUD1 ASSY

No.	Name	Voltage (V)
1	BOOTH_L+	2.42
2	BOOTH_L-	2.43
3	BOOTH_R+	2.42
4	BOOTH_R-	2.42
5	MIC_1	2.49
6	MIC_2	2.49
7	V3R3	3.32
8	V+5	5
9	V+12	11.97
10	V-15	-15.2
11	V+15	15.08

NOTE : The following voltages were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

A 4/5 AUD1 ASSY

IC4044 (AK4382-AVT-TBB)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	2.42
2	-	10	2.42
3	-	11	2.42
4	-	12	2.42
5	4.99	13	0
6	0	14	4.98
7	0	15	0
8	0	16	0

B 1/5 AUD2 ASSY

IC5011 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	5.01
4	0	12	4.92
5	0	13	-
6	0	14	-
7	0	15	5.01
8	-	16	5.01

A 1/5 AUD1 ASSY

IC4003 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	5
4	0	12	5
5	0	13	-
6	0	14	-
7	0	15	5
8	-	16	5

A 4/5 AUD1 ASSY

IC4048 (NJM5532DD)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	0	8	15

B 1/5 AUD2 ASSY

IC5010 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	4.97
4	0	12	4.94
5	0	13	-
6	0	14	-
7	0	15	4.95
8	-	16	5.01

A 1/5 AUD1 ASSY

IC4009 (AK5381VT)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	2.49	9	-
2	2.49	10	-
3	0	11	-
4	2.47	12	-
5	0	13	3.32
6	4.98	14	0
7	3.29	15	0
8	0	16	0

A 4/5 AUD1 ASSY

IC4047 (NJM5532DD)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	0	8	15

B 1/5 AUD2 ASSY

IC5015 (NJM2114D)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	-15.24	8	15.01

A 2/5 AUD1 ASSY

IC4020 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	5
4	0	12	5
5	0	13	-
6	0	14	-
7	0	15	5
8	-	16	5

B AUD2 ASSY

No.	Name	Voltage (V)
1	REC_R+	2.47
2	REC_R-	2.47
3	REC_L+	2.461
4	REC_L-	2.46
5	MASTER_L+	2.563
6	MASTER_L-	2.565
7	MASTER_R+	2.565
8	MASTER_R-	2.56
9	VR_MUTE	3.29
10	V+15B	14.954
11	V+5	4.958
12	V-15	-15.135
13	V+15	14.973
14	VMUTE	18.2
15	ATT	0

B 1/5 AUD2 ASSY

IC5004 (AK4393VF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	15	0
2	3.3	16	0
3	-	17	4.99
4	3.3	18	4.99
5	-	19	0
6	-	20	2.56
7	-	21	2.57
8	0	22	2.57
9	3.31	23	2.56
10	3.32	24	2.59
11	0	25	3.3
12	0	26	3.3
13	3.32	27	0
14	0	28	0

A 2/5 AUD1 ASSY

IC4017 (CS5361-KS-TBB)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	3.31	13	3.3
2	0	14	0
3	-	15	0
4	-	16	-
5	-	17	-
6	3.3	18	0
7	0	19	5
8	3.3	20	-
9	-	21	-
10	0	22	2.5
11	3.3	23	0
12	0	24	4.92

B 1/5 AUD2 ASSY

IC5014 (NJM2114D)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	-15.24	8	15.01

B 2/5 AUD2 ASSY

IC5019 (AK4382AVT)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	2.47
2	-	10	2.47
3	-	11	2.56
4	-	12	2.56
5	5	13	0
6	0	14	5
7	0	15	0
8	0	16	0

G MAIN ASSY

NOTE

No.	Name	Voltage (V)
1	SCRST	3.332
2	V+1R25D	1.259
3	RST	3.326
4	CONF_DONE	-
5	ARST	3.3
6	V+3R3D	3.335
7	VRST	3.302
8	CLK66M	-
9	DONE	2.549
10	FRST	3.311
11	V+1R4D	1.396
12	V+1R2D	1.189
13	CLK24M	-
14	CLK28M	-
15	V+1R8D	1.82
16	V+2R5D	1.822
17	VREF	1.261
18	CLK-33M	-
19	CLK-50M	-
20	CLK-27M	-

H SCPU ASSY

NOTE

No.	Name	Voltage (V)
1	V3R3	3.29
2	DCLK0	-
3	HSYNC	3.3
4	VSYNC	-
5	L/R	3.28
6	OUT DDEN	-
7	FPGA_RX	-
8	FPGA_SCK	-
9	SUB_CPU_INT	-
10	V3R3	3.32
11	GNDFL	0
12	PWRFL	-
13	GLLED	0
14	VLED	5.09

U DIO2 ASSY

NOTE

No.	Name	Voltage (V)
1	SYNC_OUTPUT	-
2	CH3_DIGI_INPUT	1.61

V DIO1 ASSY

NOTE

No.	Name	Voltage (V)
1	MIDI	-
2	V+5	5.11
3	V3R3	3.31
4	DIGI_4896_IN	0
5	DIGITAL_OUT	-

V 1/2 DIO1 ASSY

IC6505 (AD1895AYRS)			
Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	15	0	
2	-	16	0
3	-	17	0
4	IC6503 10	18	0
5	IC6503 11	19	0
6	-	20	0
7	3.33	21	0
8	0	22	3.32
9	0	23	-
10	0	24	-
11	0	25	-
12	0	26	0
13	3.34	27	0
14	0	28	0

V 1/2 DIO1 ASSY

IC6516 (AK4114VQ)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	1.62	25	-
2	0	26	-
3	1.62	27	-
4	0	28	-
5	1.62	29	-
6	0	30	-
7	1.62	31	5.12
8	0	32	-
9	0	33	3.33
10	0	34	3.33
11	3.33	35	3.33
12	0	36	0
13	3.31	37	0
14	0	38	3.33
15	0	39	1.2
16	-	40	1.2
17	0	41	3.33
18	0	42	1.62
19	0	43	3.33
20	0	44	1.61
21	3.3	45	3.33
22	0	46	1.62
23	3.31	47	3.33
24	-	48	1.62

V 1/2 DIO1 ASSY

IC6503 (AK4117VF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	1.2	13	0
2	3.3	14	-
3	1.62	15	0
4	0	16	0
5	1.63	17	-
6	3.3	18	3.33
7	0	19	3.33
8	0	20	-
9	3.3	21	0
10	-	22	3.3
11	-	23	3.3
12	0	24	0

V 2/2 DIO1 ASSY

IC6514 (TC74HCU04AF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	8	-
2	5.11	9	-
3	0	10	-
4	5.11	11	-
5	-	12	-
6	-	13	-
7	0	14	5.12

V 2/2 DIO1 ASSY

IC6517 (AD1895AYRS)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	15	0
2	-	16	0
3	-	17	0
4	3.31	18	0
5	-	19	0
6	-	20	0
7	3.33	21	0
8	0	22	3.31
9	0	23	IC6516 28
10	0	24	IC6516 24
11	0	25	IC6516 26
12	0	26	3.33
13	3.3	27	3.32
14	0	28	0

Y USB1 ASSY

NOTE

No.	Name	Voltage (V)
1	D+USB1	-
2	D-USB1	-

AA HAMP ASSY

NOTE

No.	Name	Voltage (V)
1	V+5D	5.01
2	V-15A	-15.24
3	HP_R-	2.44
4	HP_R+	2.45
5	HP_L-	2.44
6	HP_L+	2.44
7	V+15A	15

AA HAMP ASSY

IC7404 (AK4382AVT)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	2.44
2	-	10	2.45
3	-	11	2.44
4	-	12	2.44
5	3.31	13	0
6	0	14	4.99
7	0	15	-
8	0	16	-

AA HAMP ASSY

IC7406 (NJM5532AD)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	7.49
4	-15.26	8	15.06

AA HAMP ASSY

IC7407 (NJM2068M)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	0	8	15.05

NOTE : The following voltages were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

10.43 WAVEFORMS

Measuring Conditions (Analog)

Measure CH	IN CH	IN LEVEL (TRIM MAX)	IN FREQ	RL	
PHONO	CH1	-46 dBV	1 kHz		
DVD/LINE	CH1	-6 dBV	1 kHz		
BOOTH	CH1 SELECT	-6 dBV	1 kHz	10 kohm	
REC	CH1 SELECT	-6 dBV	1 kHz	10 kohm	
MASTER 1, 2	CH1 SELECT	-6 dBV	1 kHz	10 kohm	
MIC 1, 2	MIC 1, 2	-52 dBV	1 kHz		
HP	CH1	-6 dBV	1 kHz	32 ohm	

Set as follows except for designation ;

INPUT CH: CH1

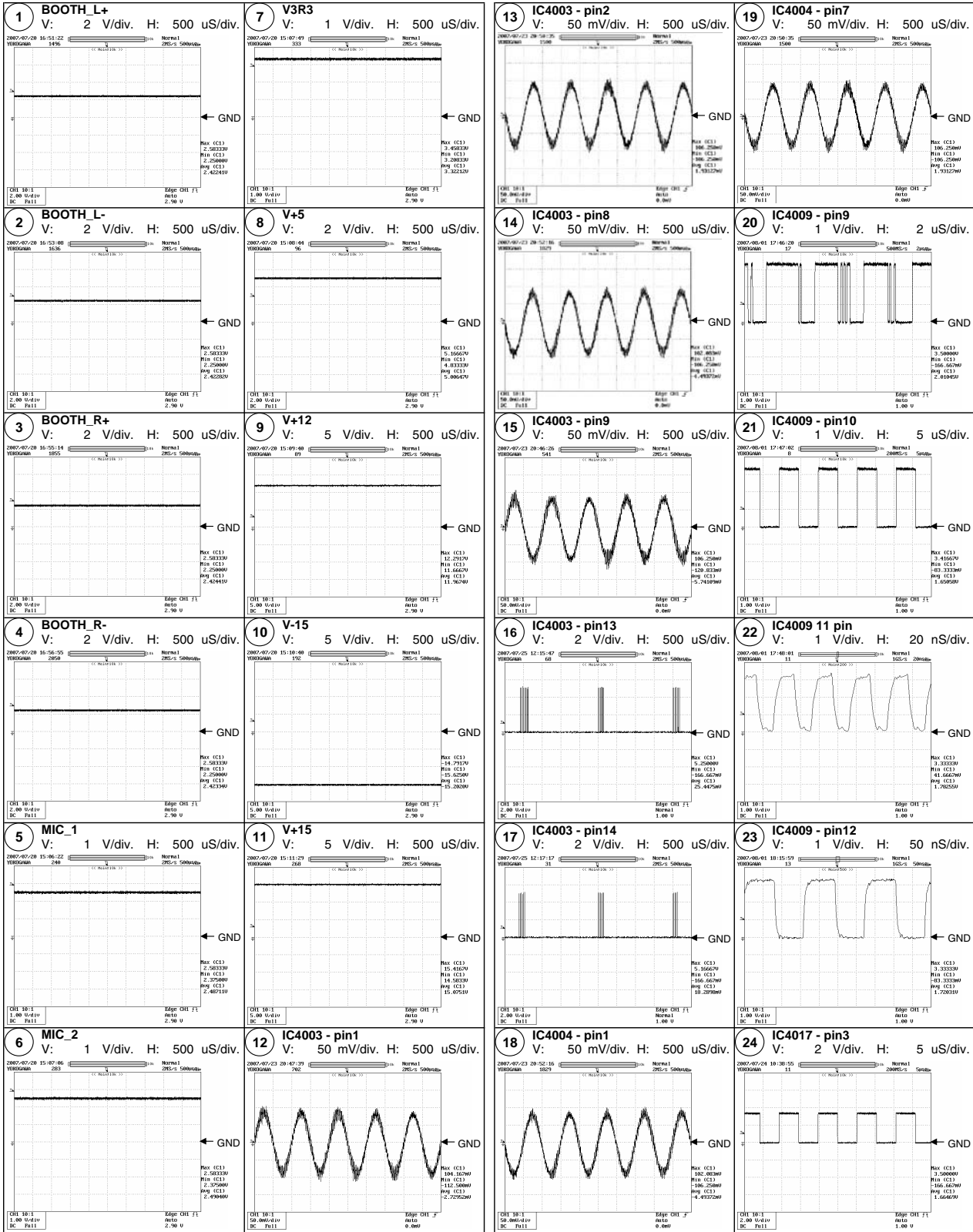
C.F ASSIGN: Nothing

CH1 FADER: Max.

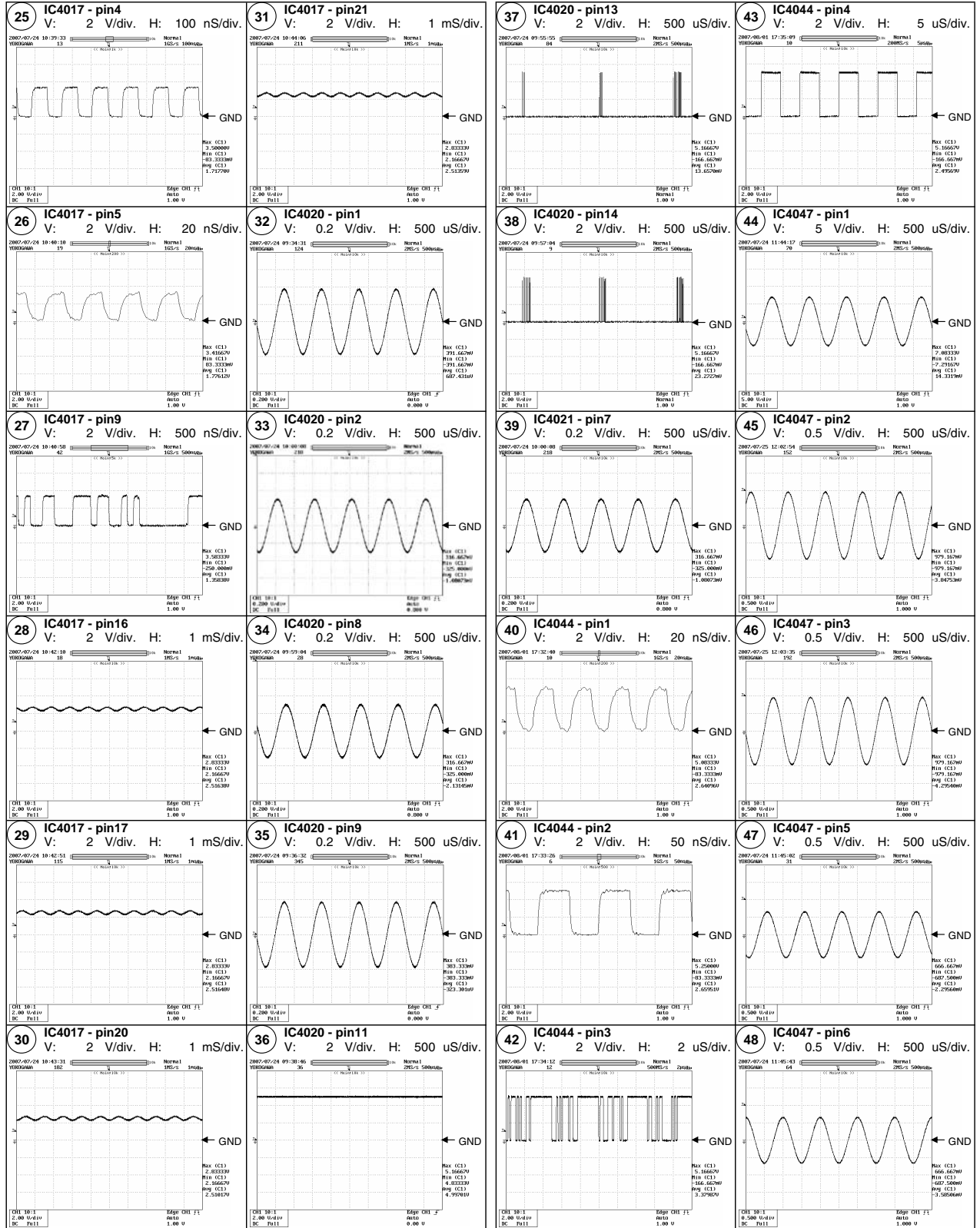
CH FADER CURVE: Center

A AUD1 ASSY

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

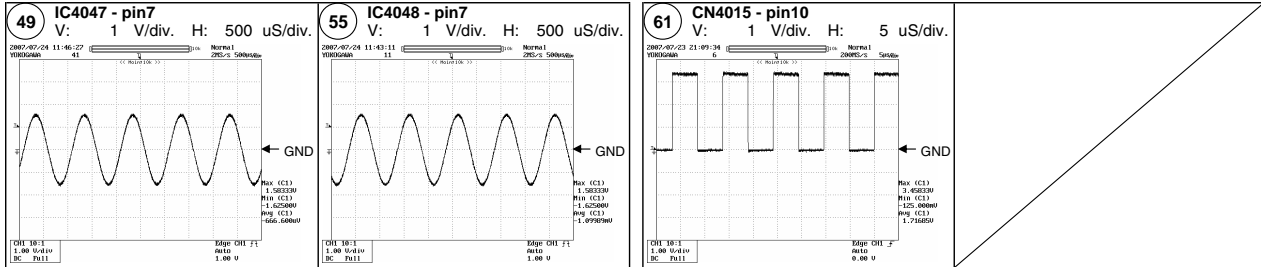


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

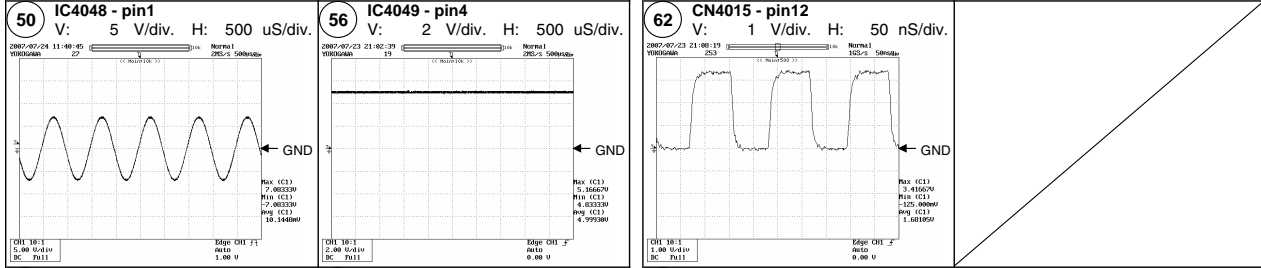


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

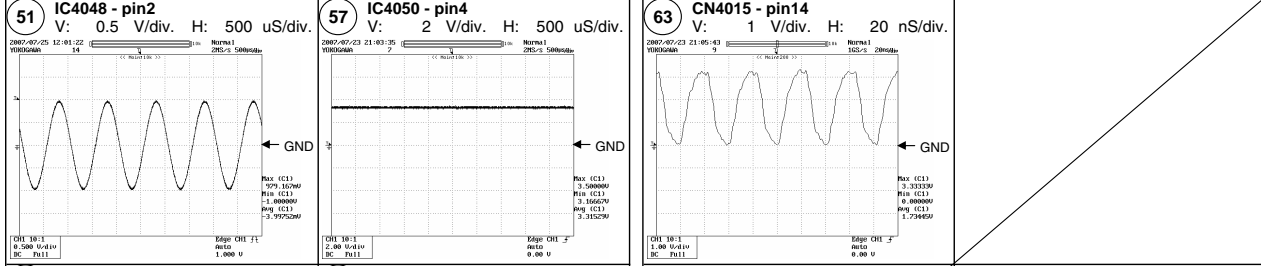
A



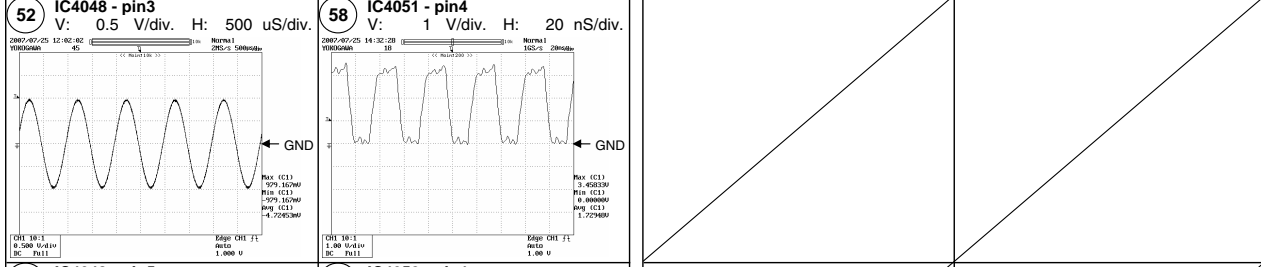
B



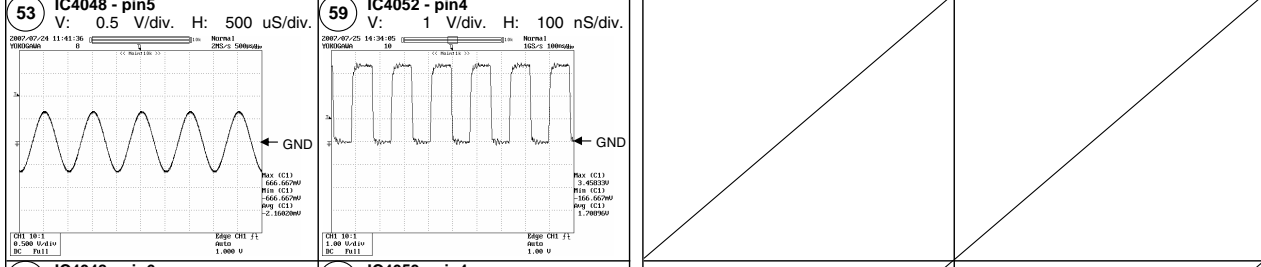
C



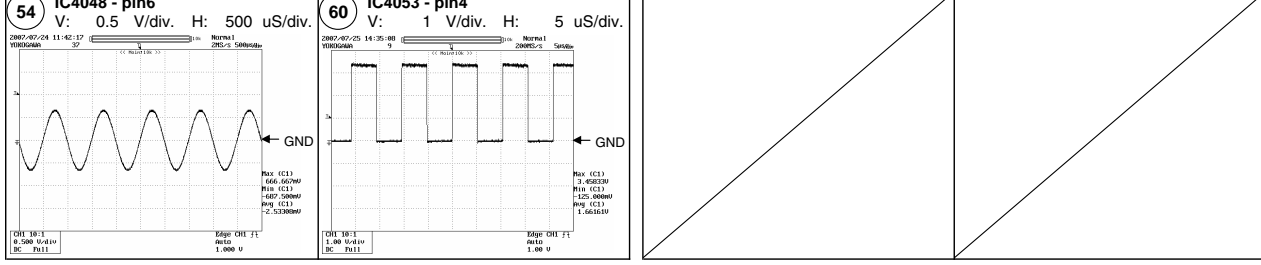
D



E

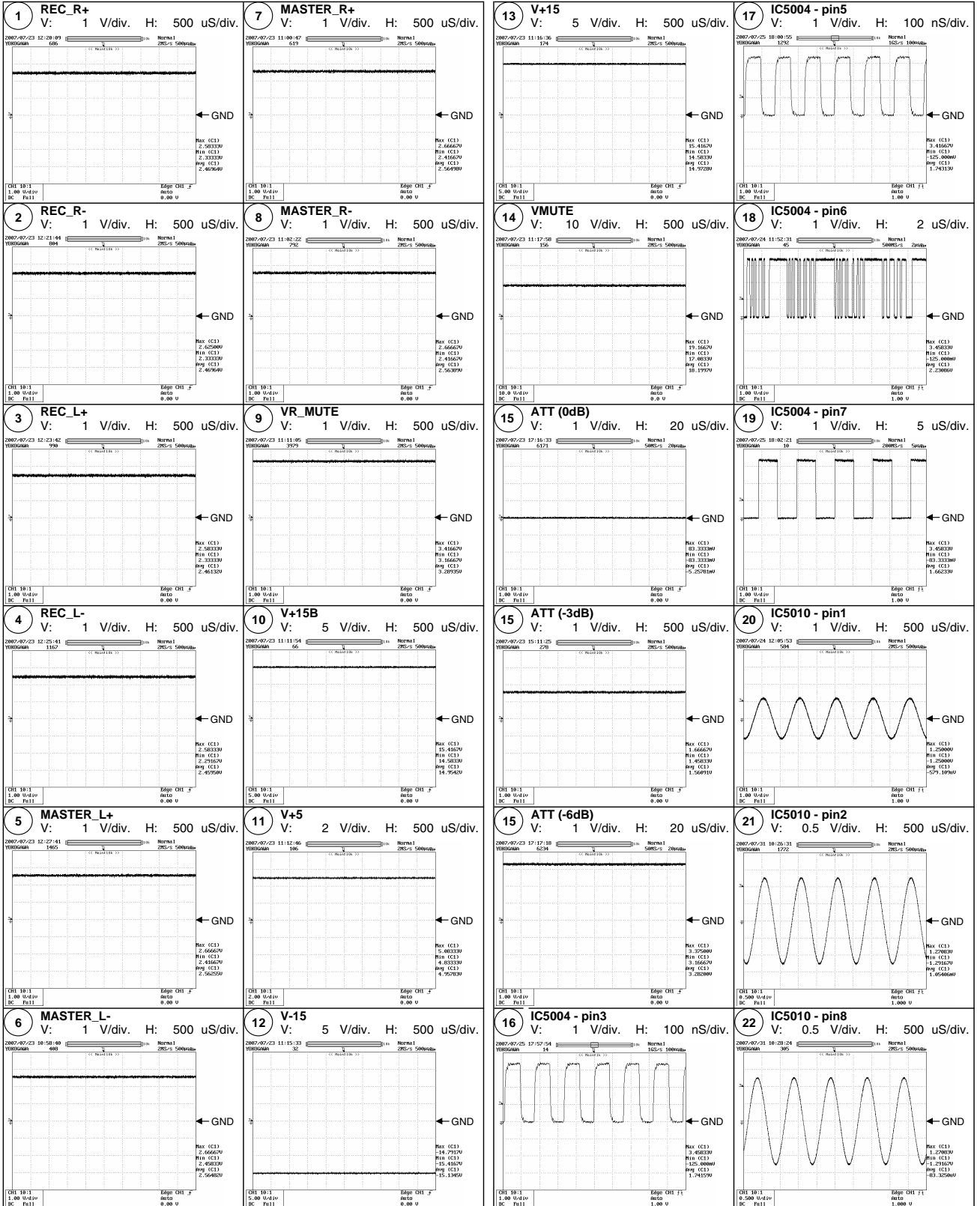


F



B AUD2 ASSY

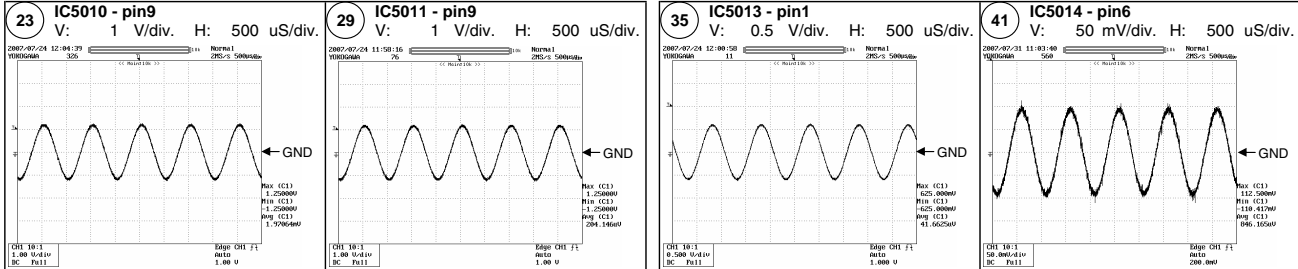
NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.



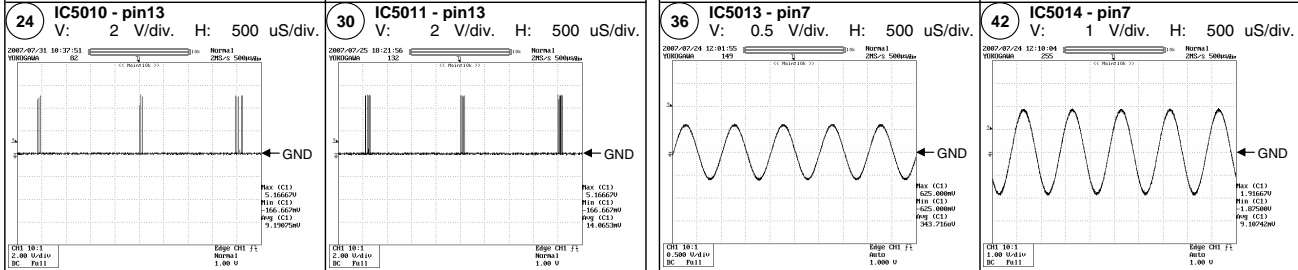
A
B
C
D
E
F

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

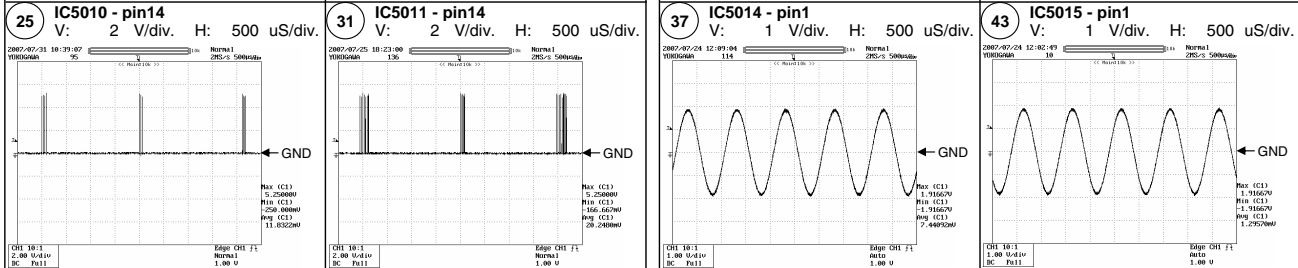
A



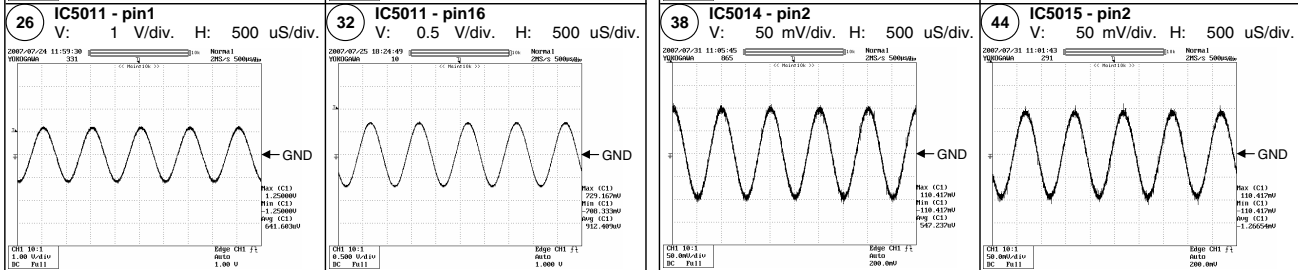
B



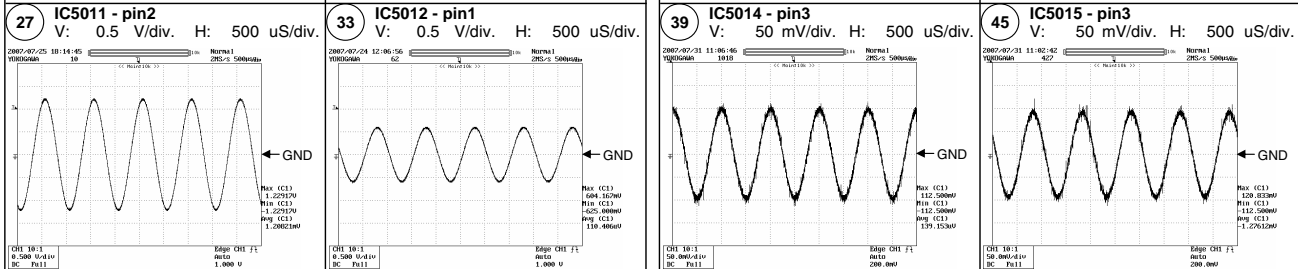
C



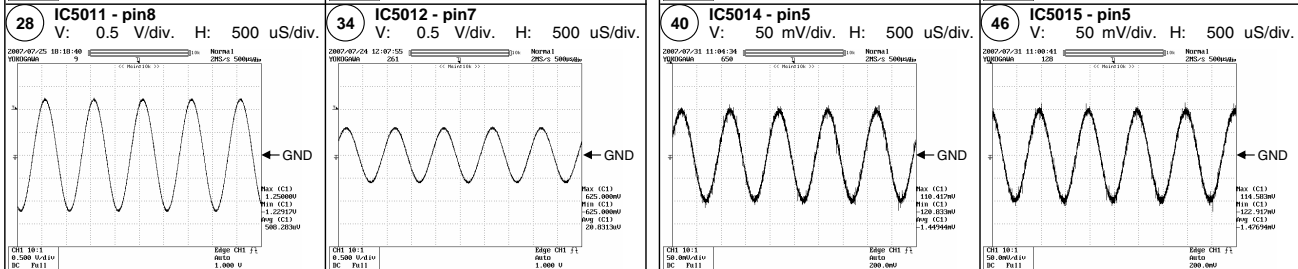
D



E

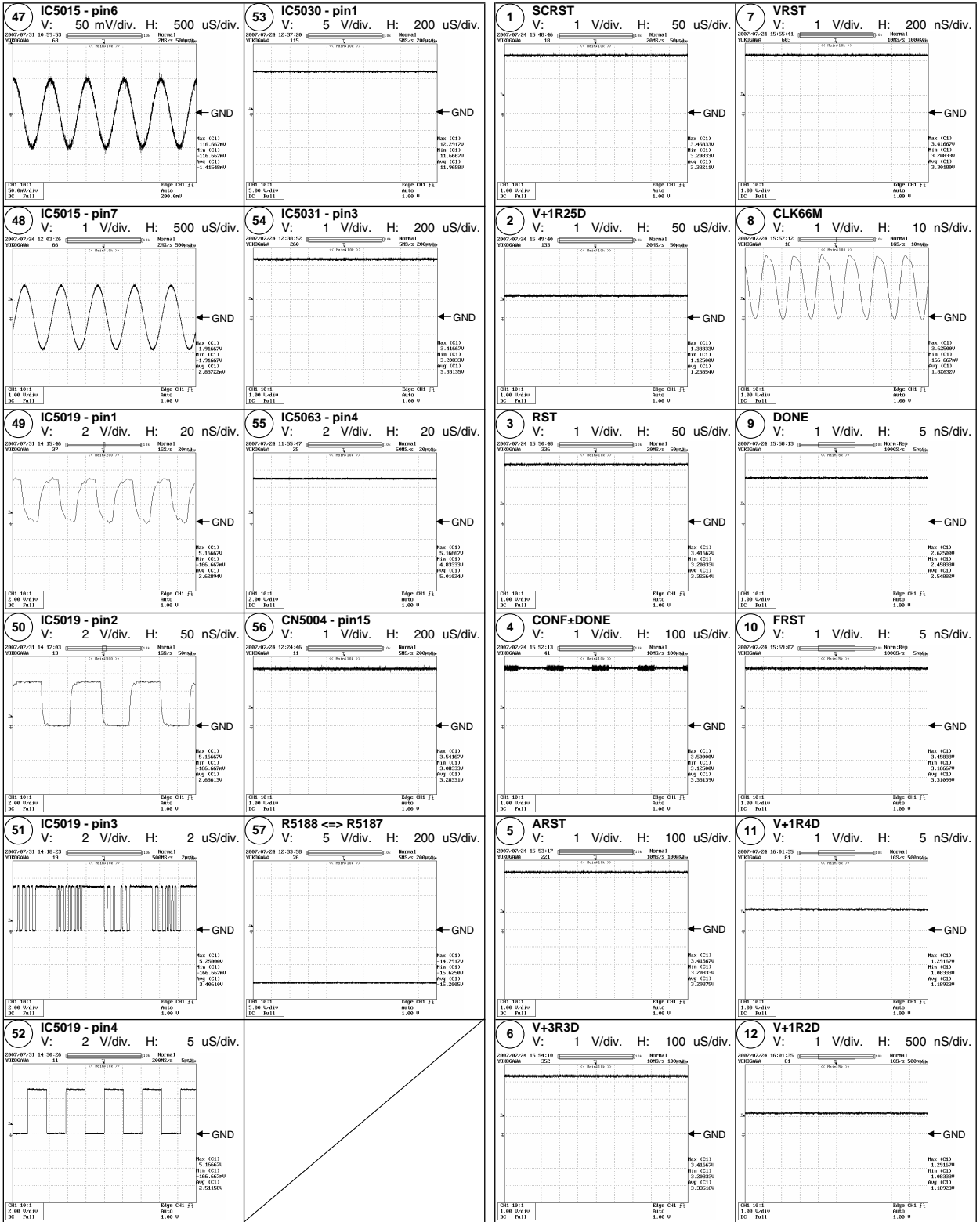


F



NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

G MAIN ASSY



A
B
C
D
E
F

A

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

H SCPU ASSY

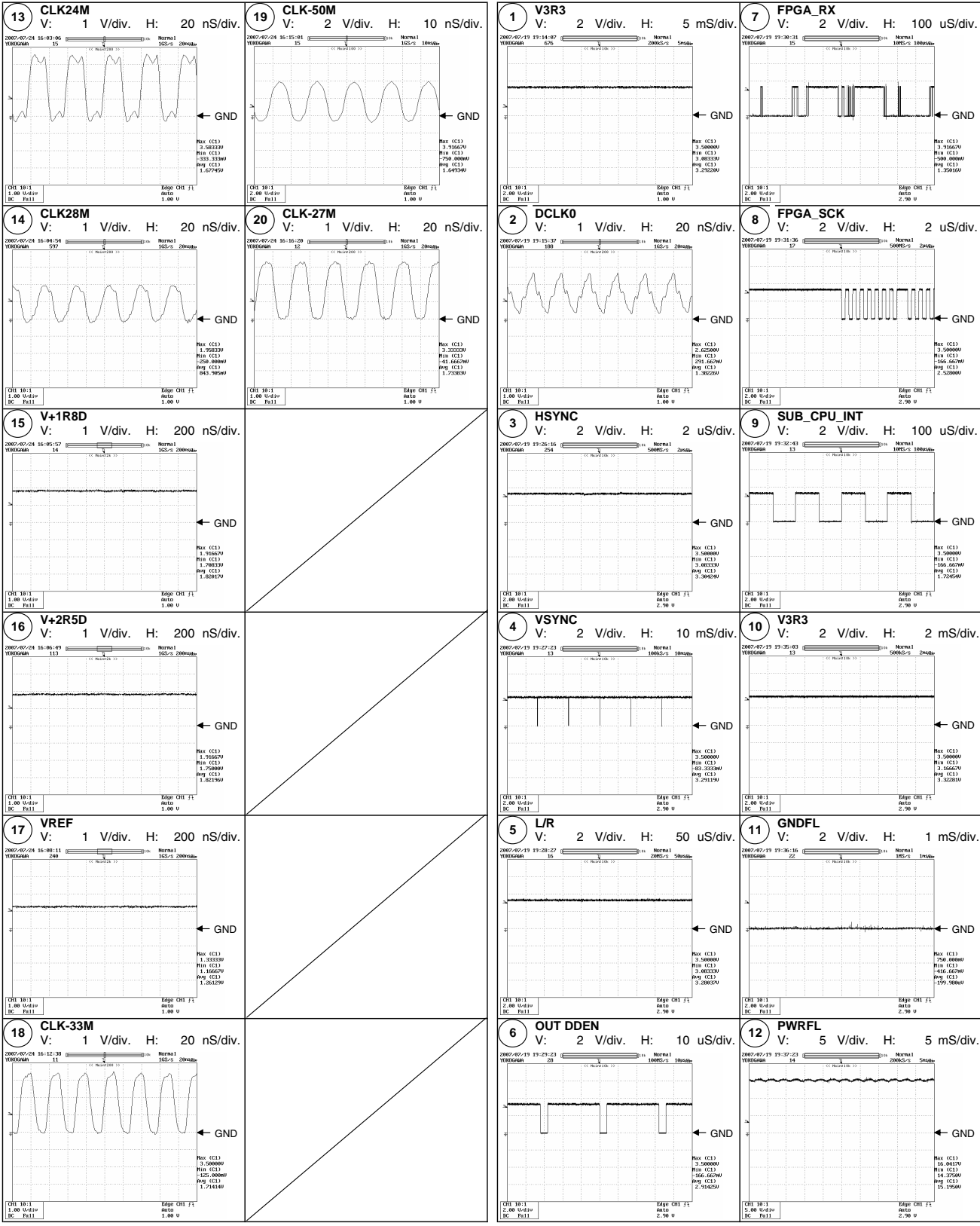
B

C

D

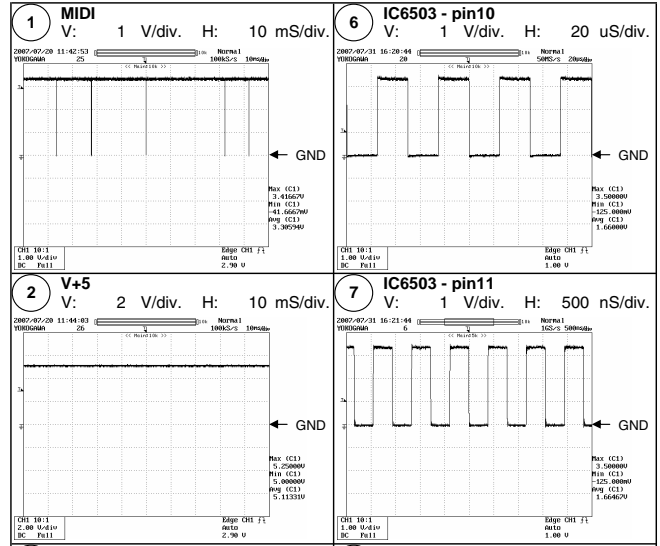
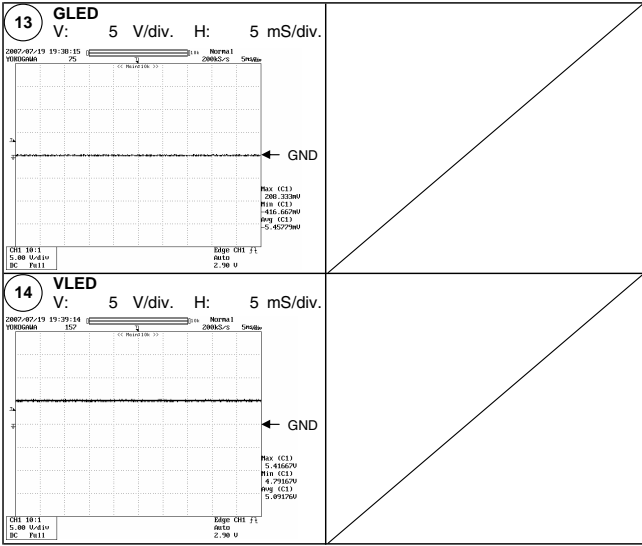
E

F

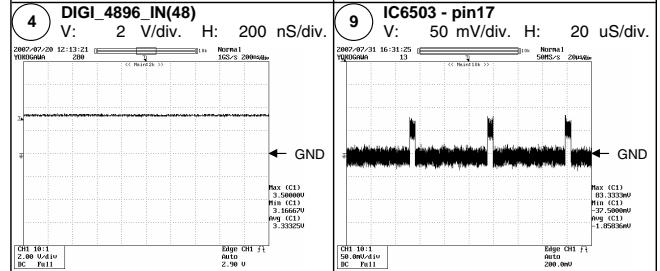
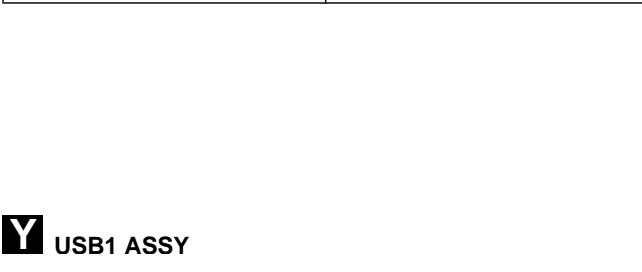
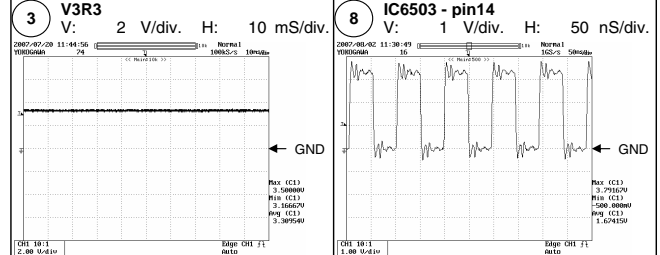
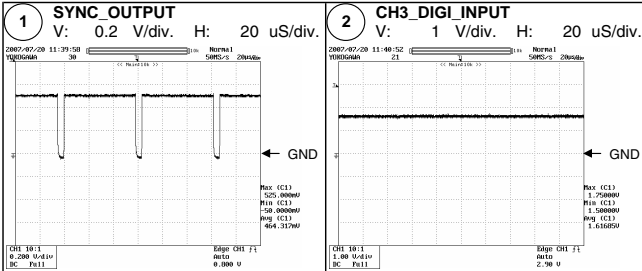


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

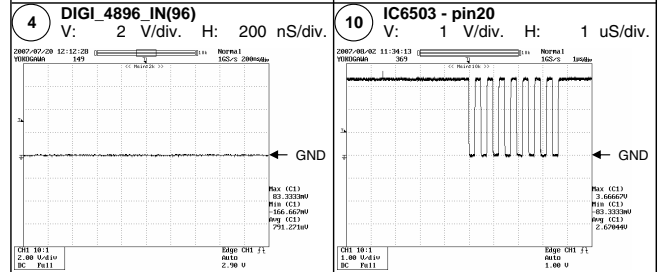
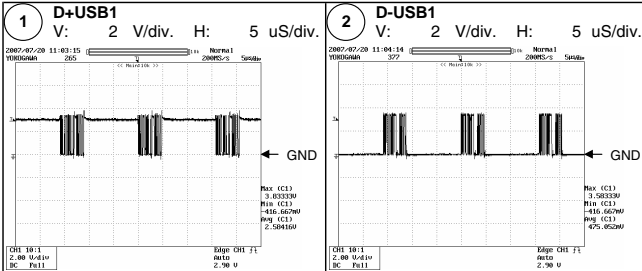
V DIO1 ASSY



U DIO2 ASSY

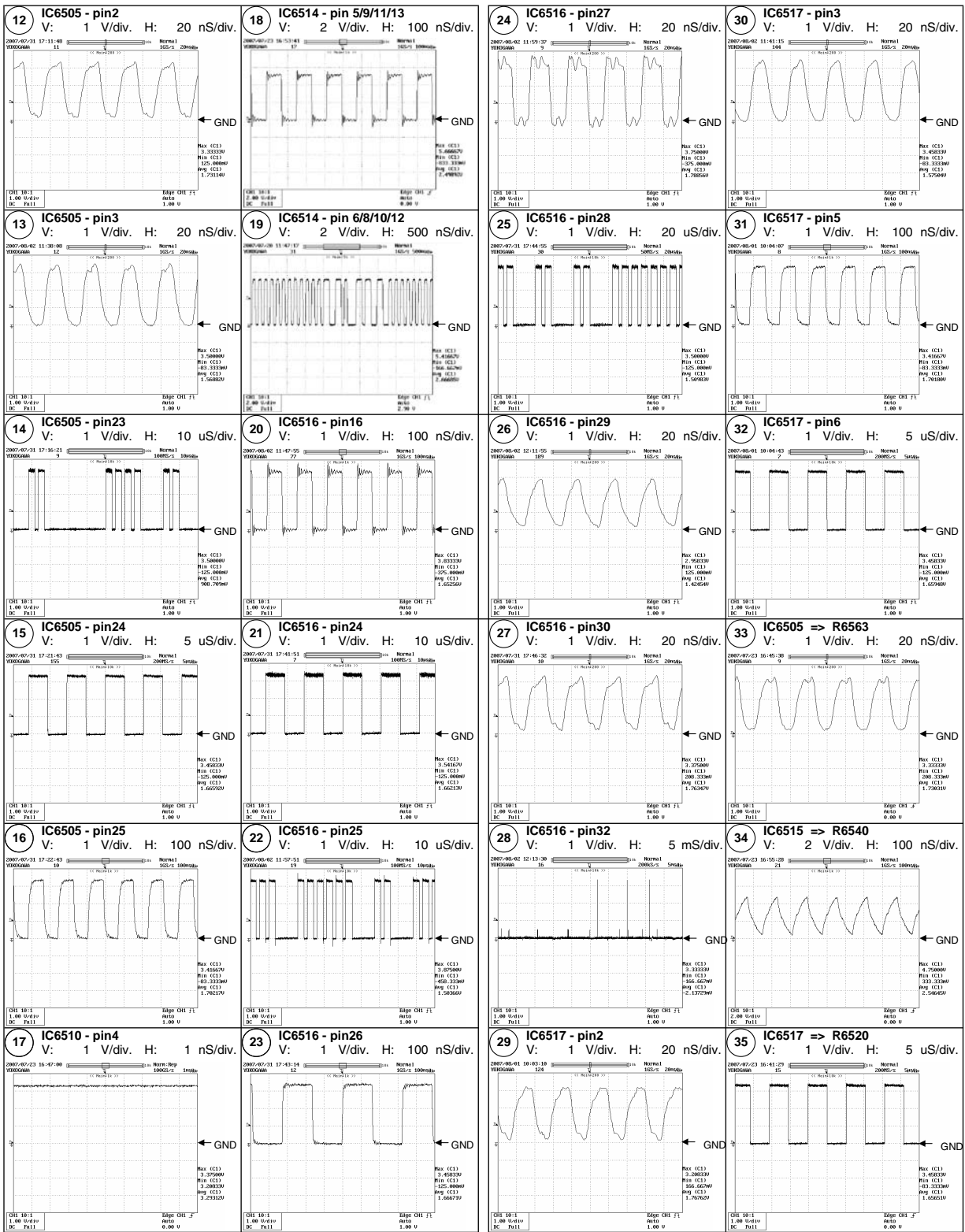


Y USB1 ASSY



A

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.



B

C

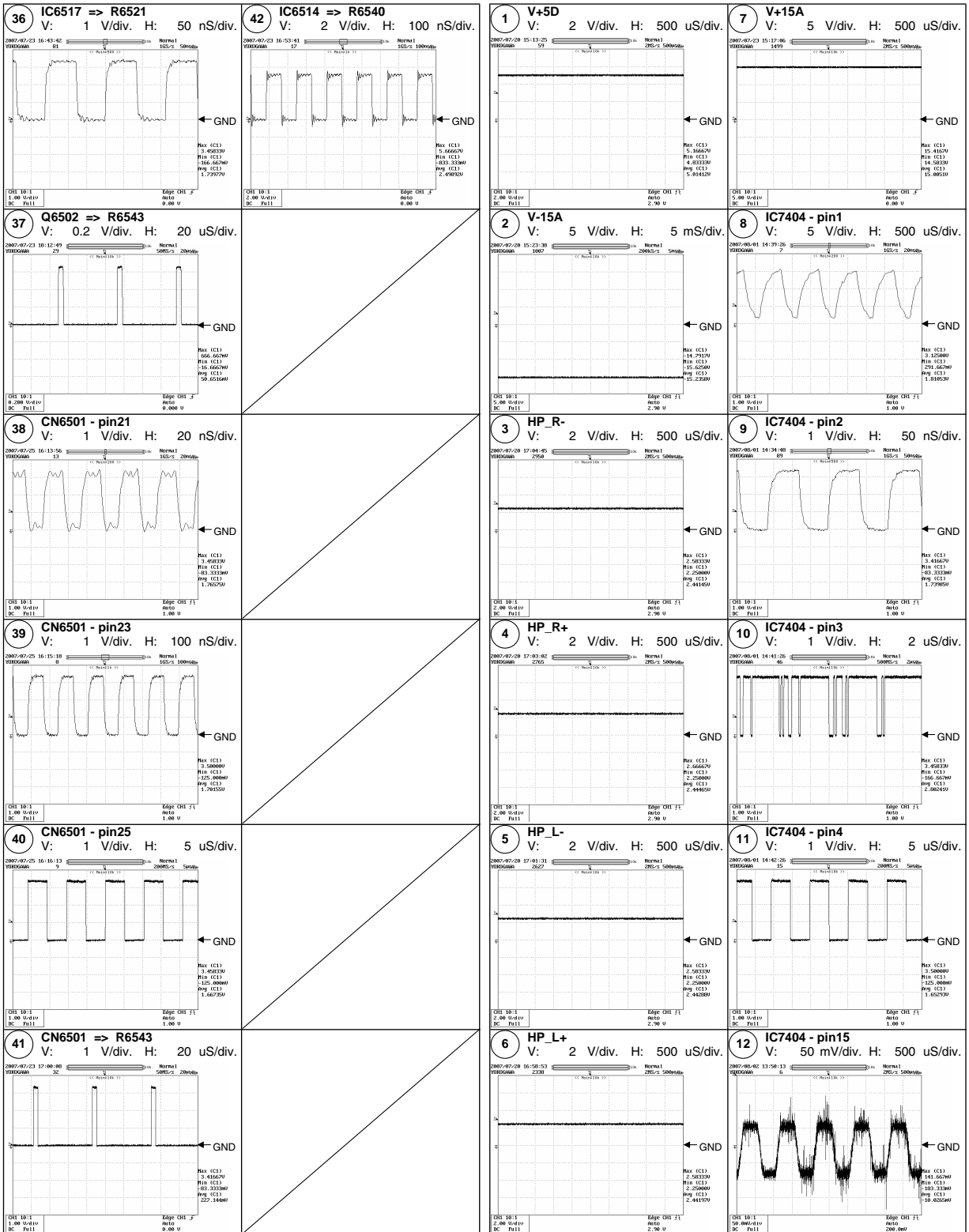
D

E

F

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

AA HAMP ASSY



A

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

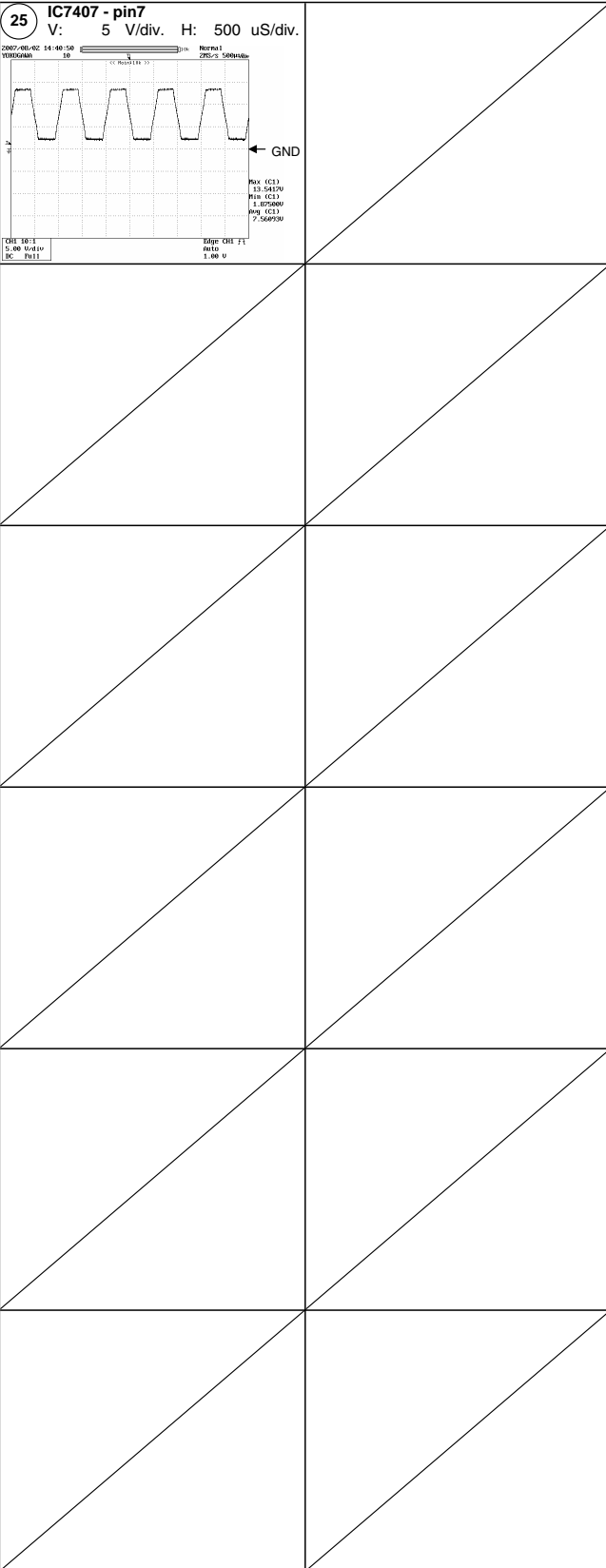
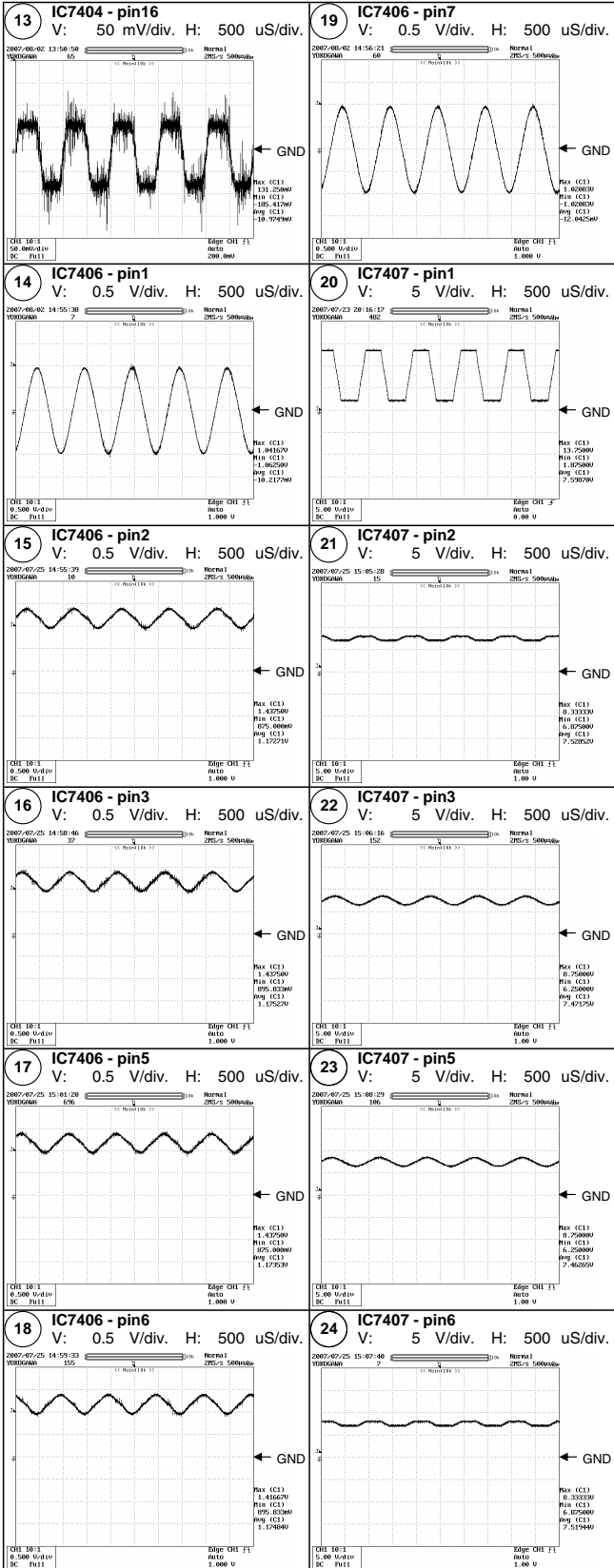
B

C

D

E

F



■

5

■

6

■

7

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8

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A

■

B

■

C

■

D

■

E

■

F

■

5

■

6

SVM-1000

■

7

■

8

■

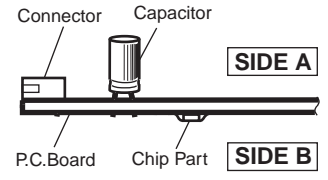
SIDE A

NOTE FOR PCB DIAGRAMS :

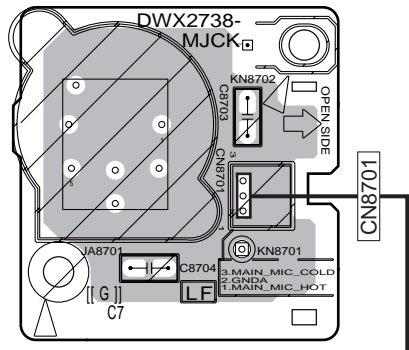
- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

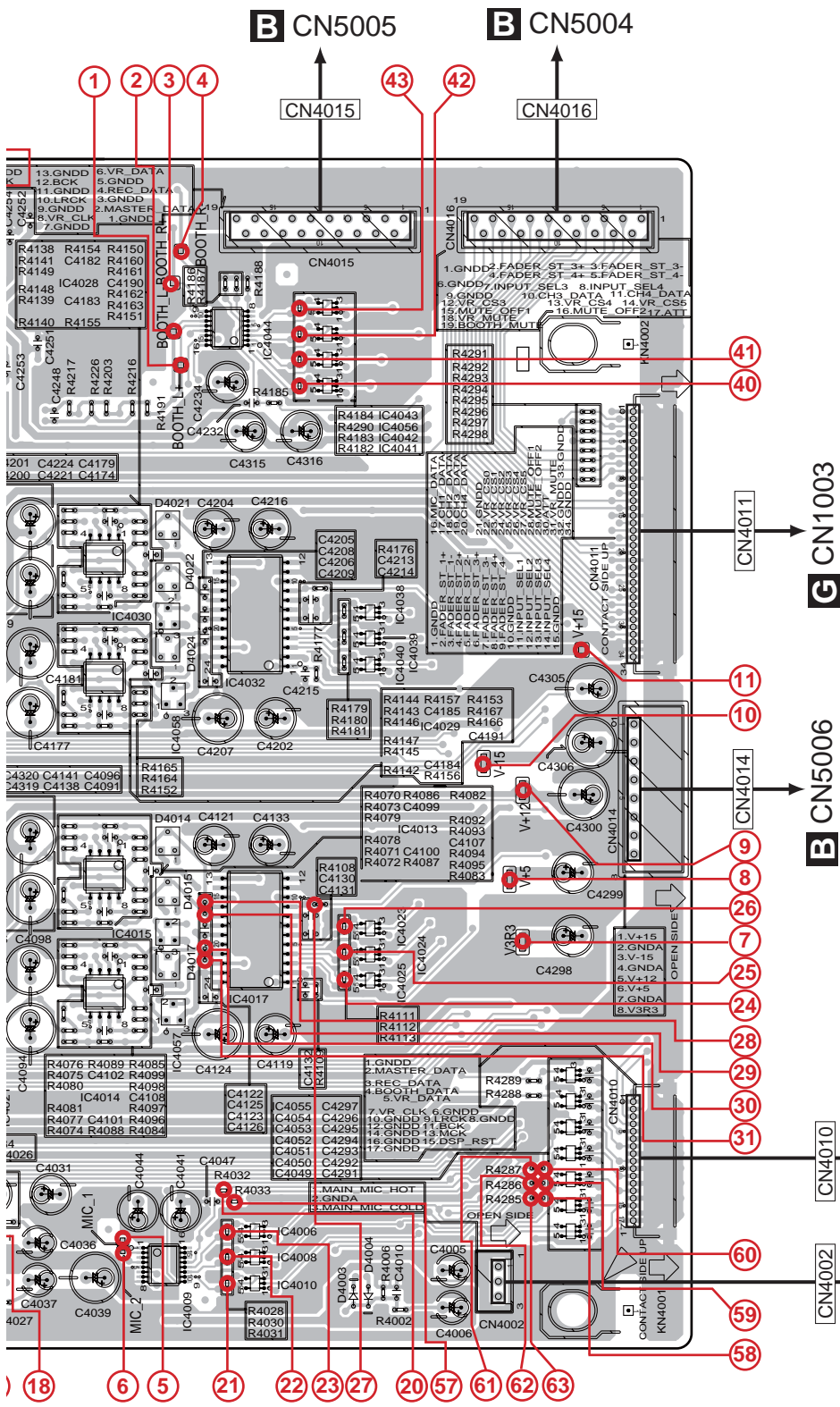
- 3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



D MJCK ASSY



(DNP2307-C)



(DNP2303-C)

NOTE: The encircled numbers denote measuring point.

A D

SVM-1000

SIDE B

A

B

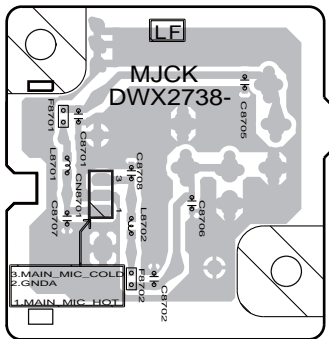
C

D

E

F

D MJCK ASSY



(DNP2307-C)

CN8701

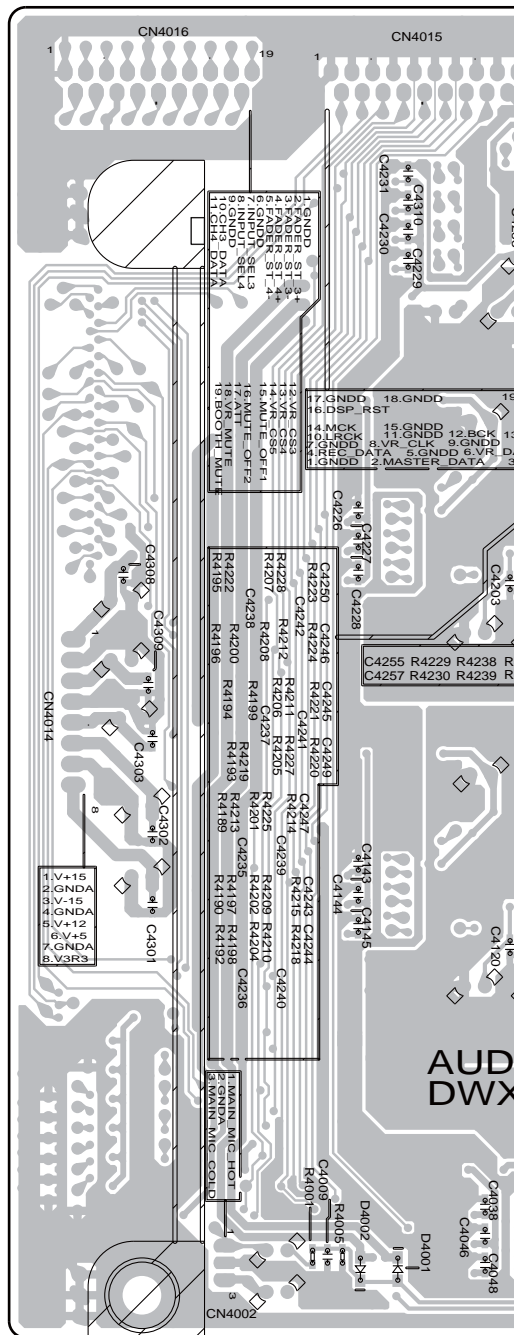
A AUD1 ASSY

IC Q

- Q4017 Q4021
- IC4046
- IC4045
- Q4018 Q4022
- Q4014
- IC4027
- IC4031
- IC4026
- Q4016 Q4020 Q4015 Q4019
- Q4011
- IC4016
- IC4011
- Q4004
- IC4001
- Q4003
- Q4001
- Q4002

CN4016

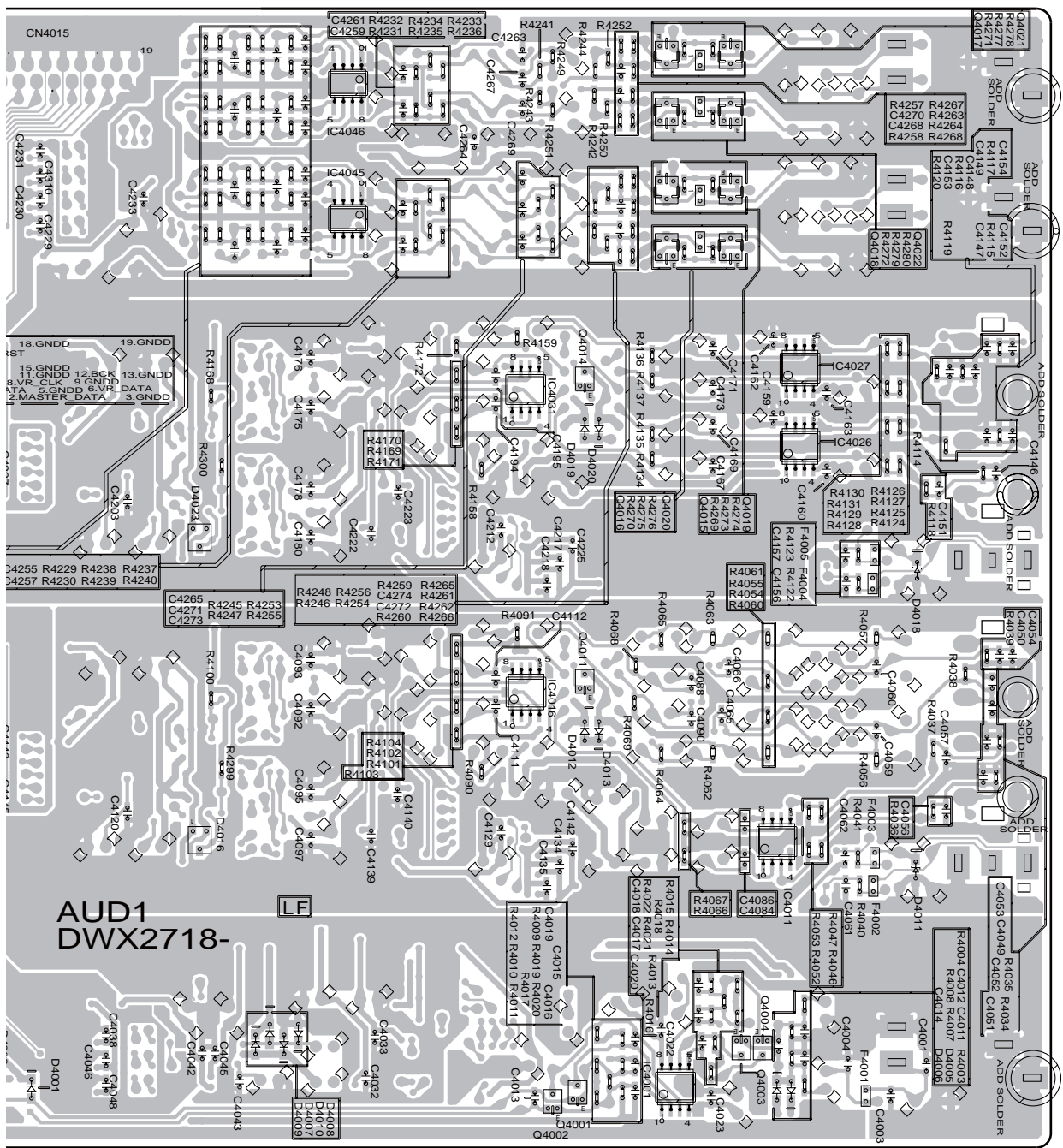
CN4015



SIDE B

A
B
C
D
E
F

CN4015



(DNP2303-C)

SVM-1000

A

11.2 AUD2 ASSY

SIDE A

B AUD2 ASSY

A

B

C

D

E

F

IC Q

Q5022 Q5020 Q5021 Q5019
Q5023 Q5024
Q5016 Q5017

IC5048

IC5039
IC5043
IC5040

IC5015 IC5014
IC5054
IC5055 IC5058

Q5003 Q5005

IC5041
IC5012
IC5013
IC5042

IC5056
IC5019

IC5057
IC5010
IC5034

IC5063
IC5011
IC5007
IC5016

IC5035 IC5036
IC5017 IC5018
IC5006

IC5050 IC5062
IC5049 IC5023
IC5065 IC5005
IC5024
IC5038
IC5025

IC5066 IC5051
IC5004
IC5053

IC5046 IC5044
IC5045
IC5001

IC5061 Q5015
IC5003
IC5059
IC5002
IC5064
IC5060
IC5026
IC5027
IC5028
IC5029
IC5030

Q5015

Q5014

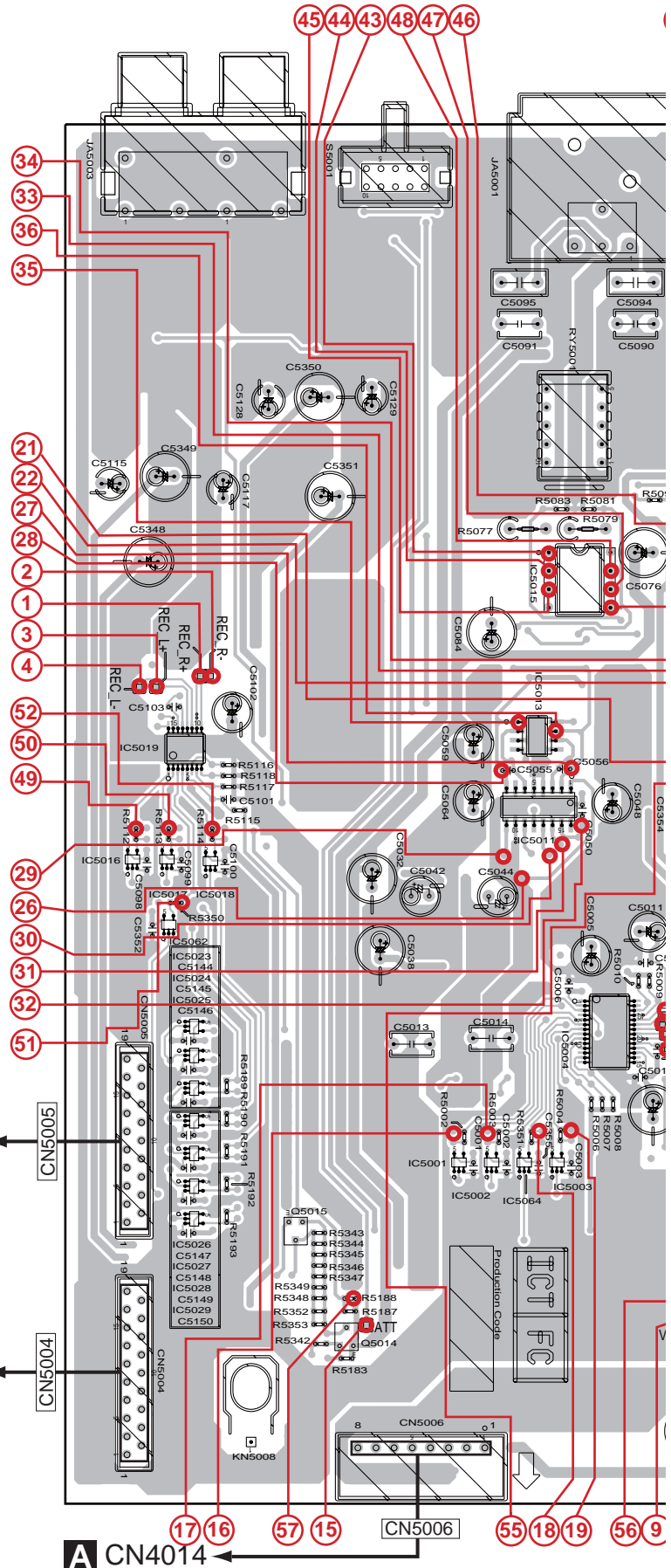
IC5031

A CN4015

A CN4016

A CN4014

B



SIDE B

B AUD2 ASSY

IC Q

- Q5010
- Q5013 Q5012
- Q5011
- Q5006 Q5009 Q5008
- Q5007
- Q5018
- Q5004
- Q5025
- Q5002

IC5032 IC5033

IC5047

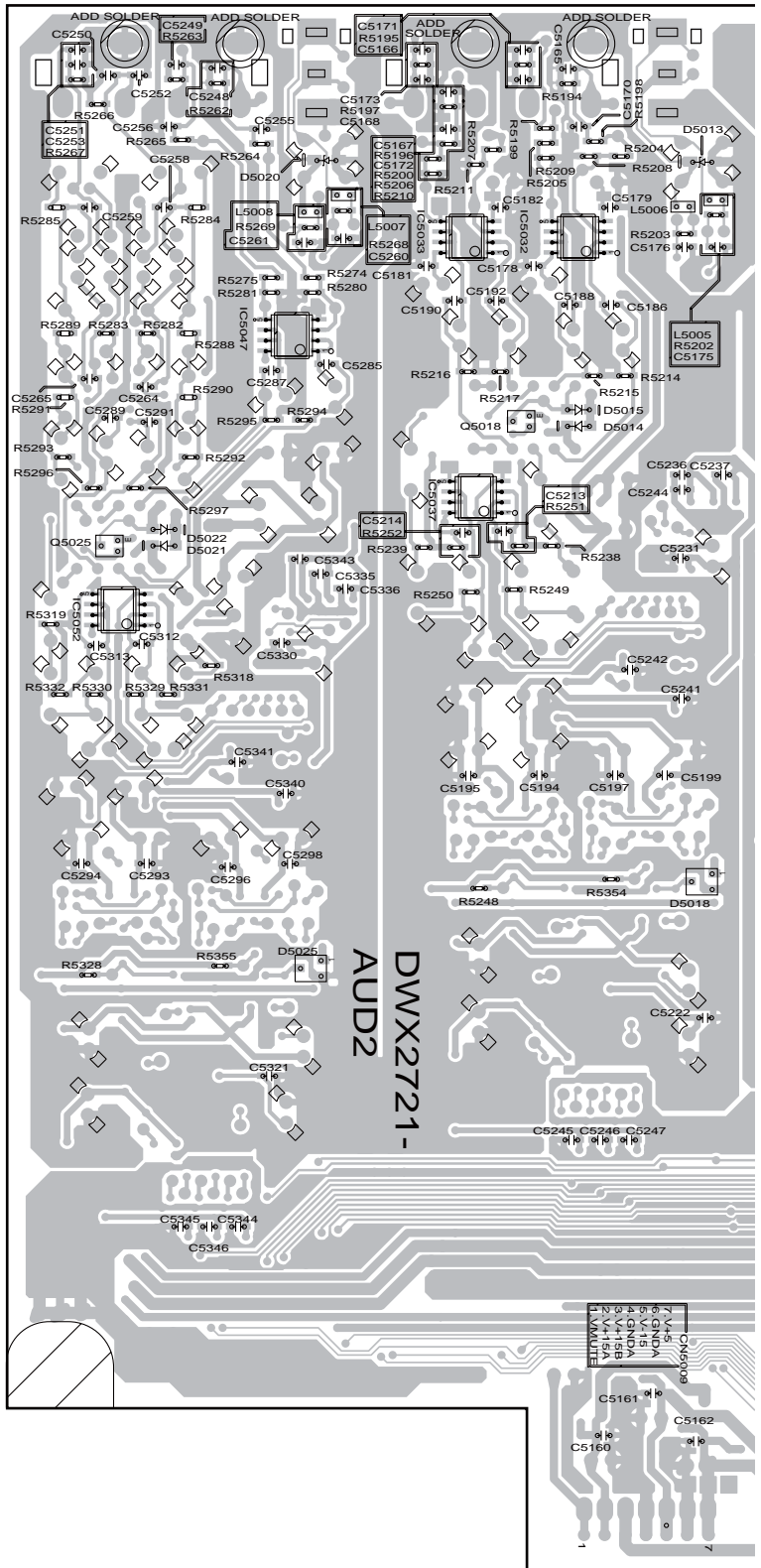
IC5021

IC5020

IC5037

IC5052

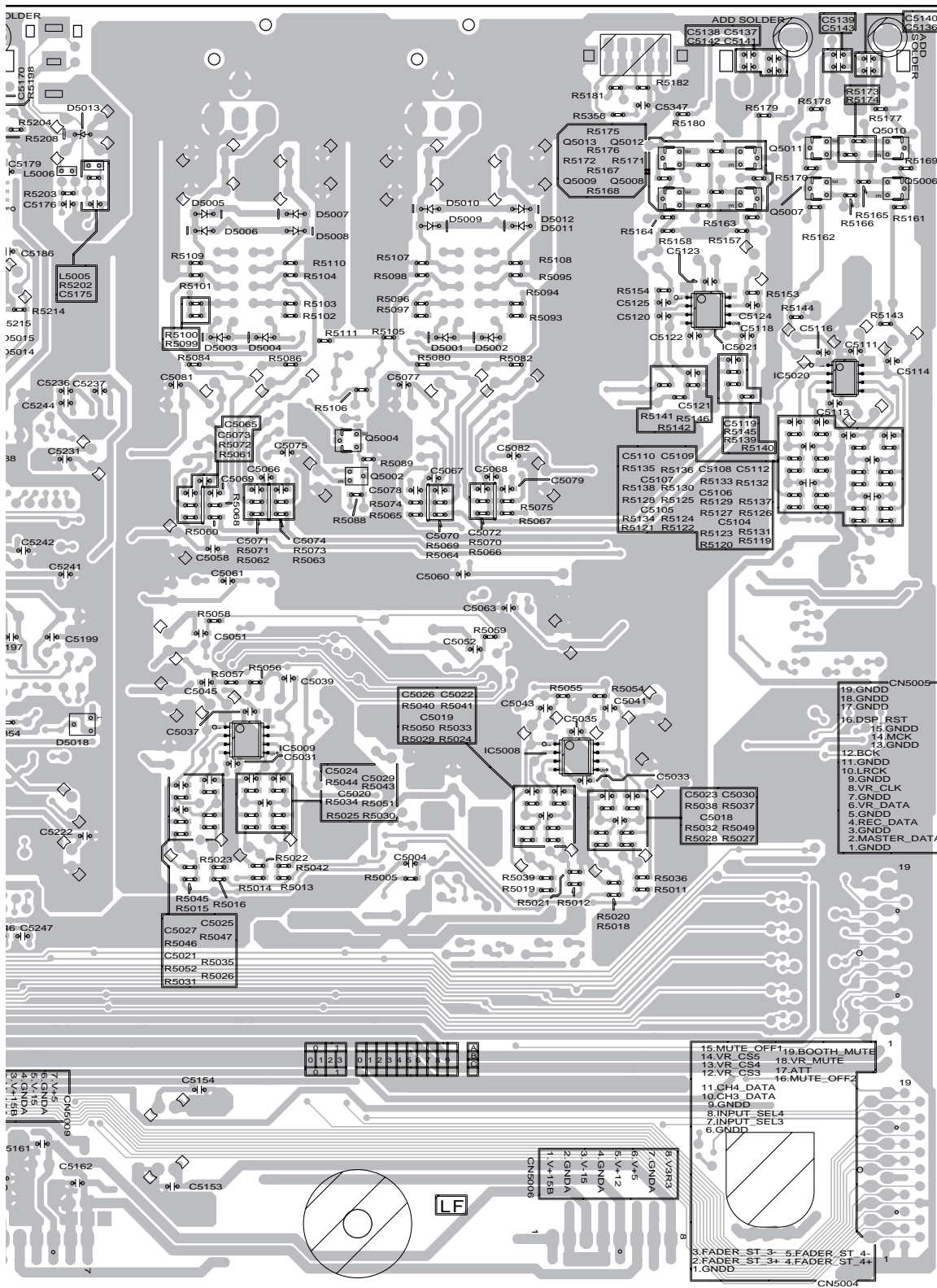
IC5008 IC5009



CN5009

B

A
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V5009

CN5006

(DNP2304-C)

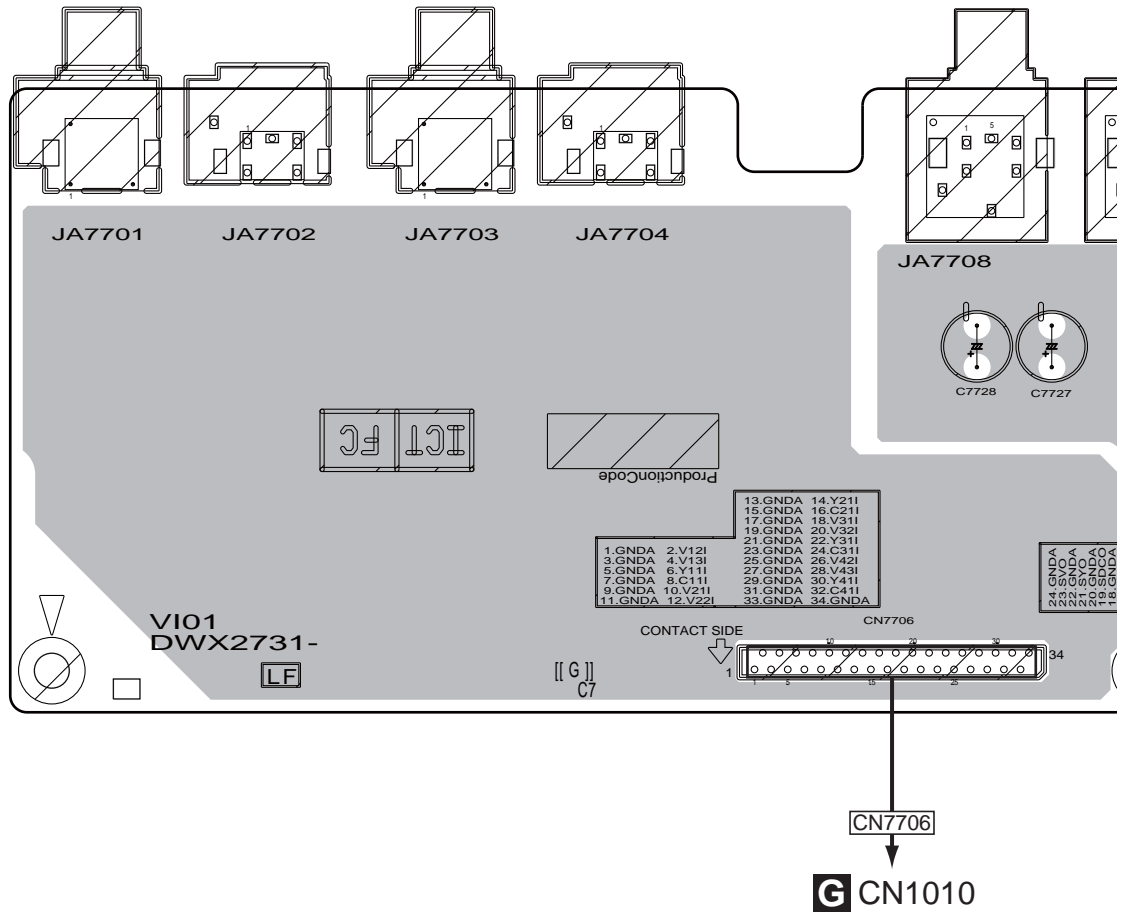
SVM-1000

B

11.3 VIO1 and VIO2 ASSYS

SIDE A

C VIO1 ASSY



C

SIDE A

A

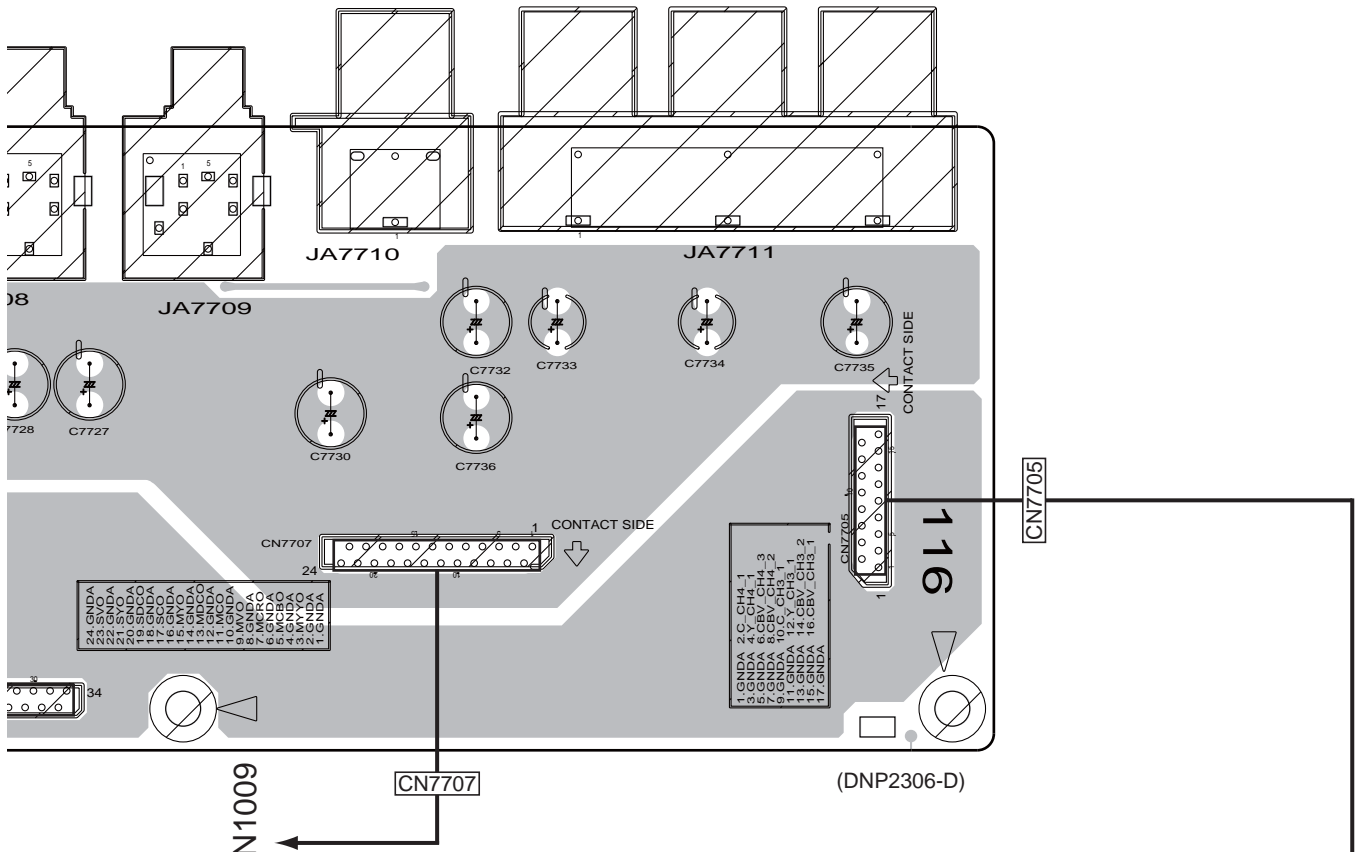
B

C

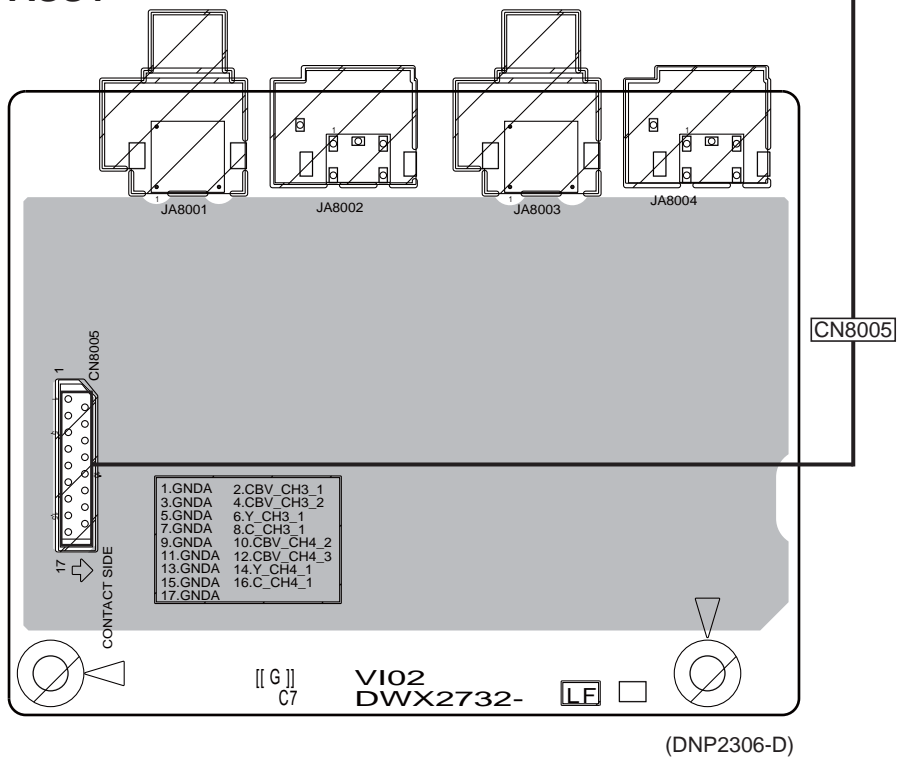
D

E

F



F VIO2 ASSY



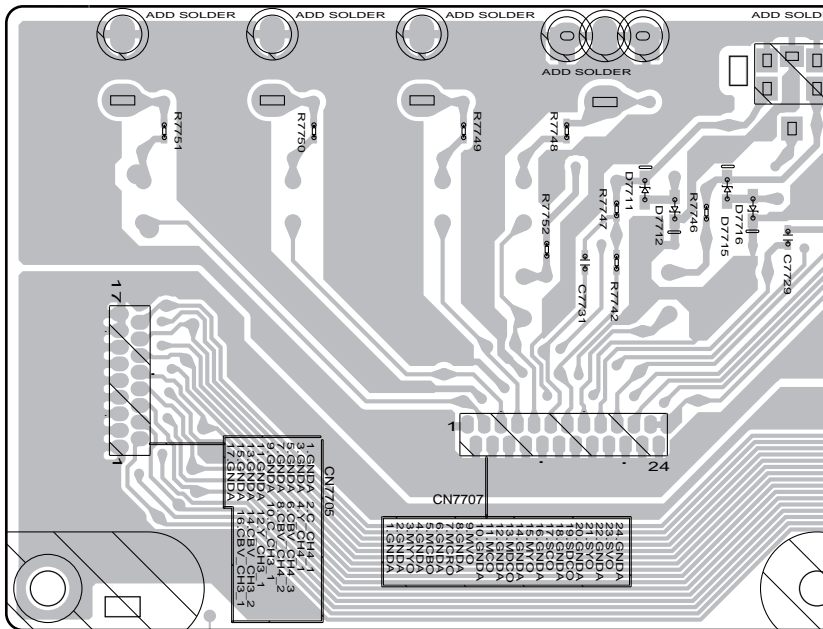
SIDE B

A

C VIO1 ASSY

B

C



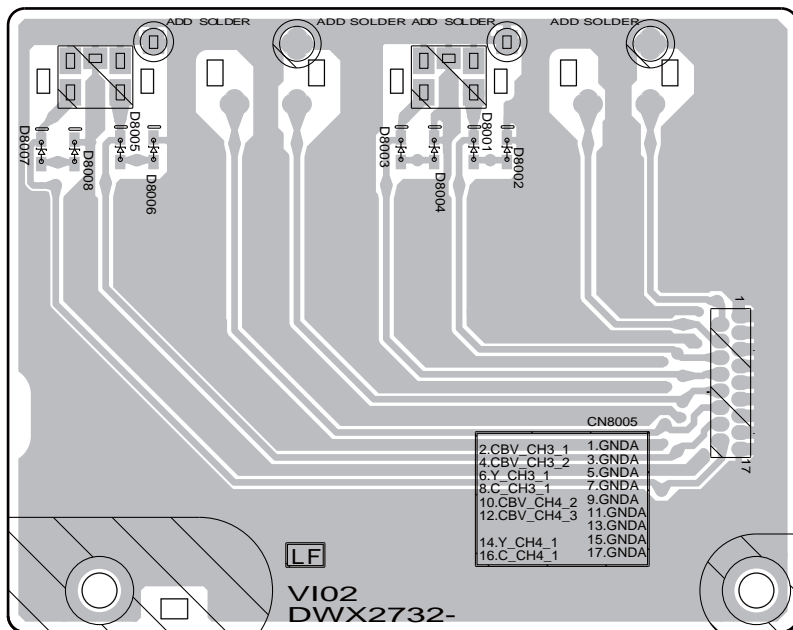
CN7707

F VIO2 ASSY

D

E

F



CN8005

(DNP2306-D)

SIDE B

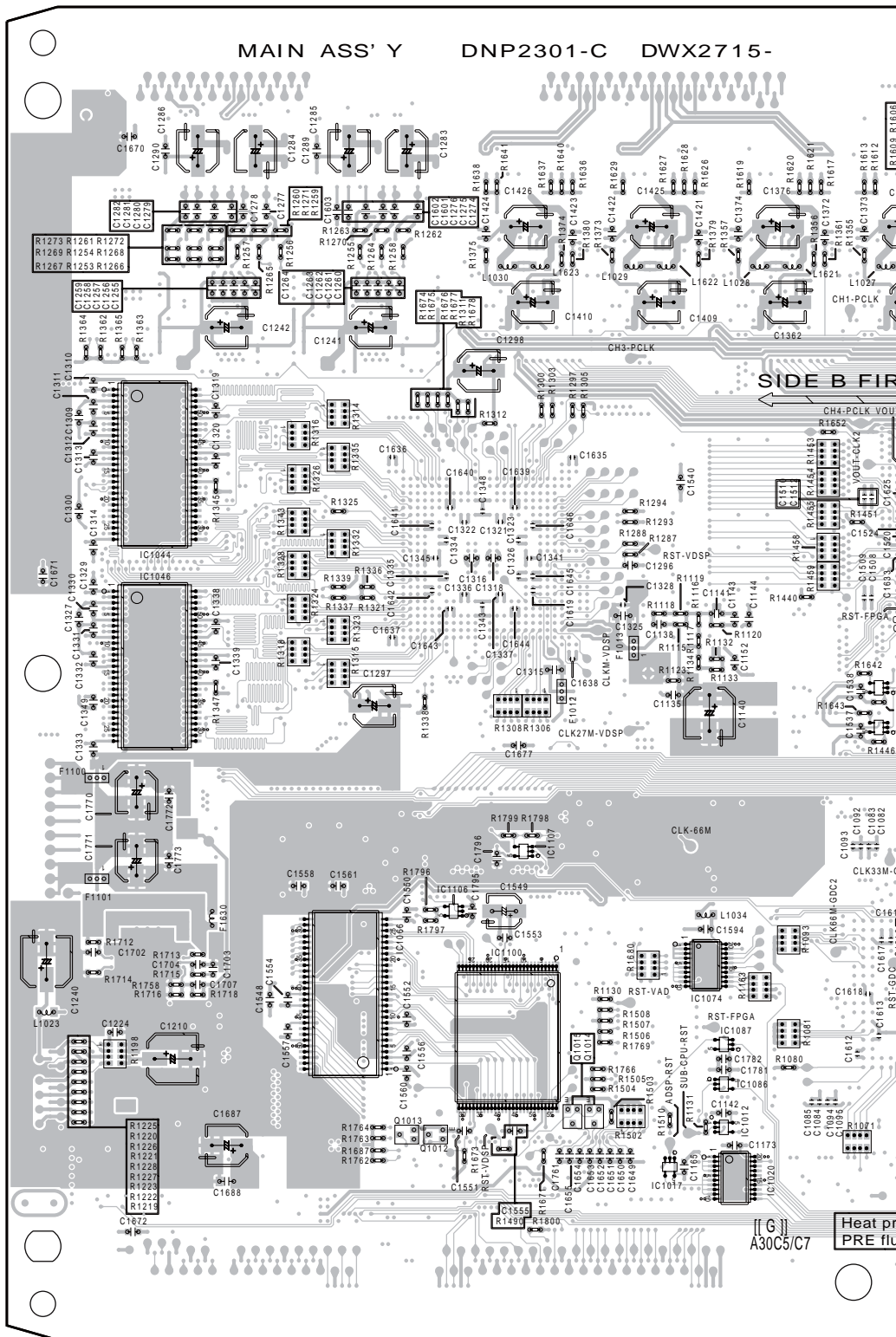
G MAIN ASSY

IC Q

CN1009

CN1010

MAIN ASS'Y DNP2301-C DWX2715-



CN1012

CN1004

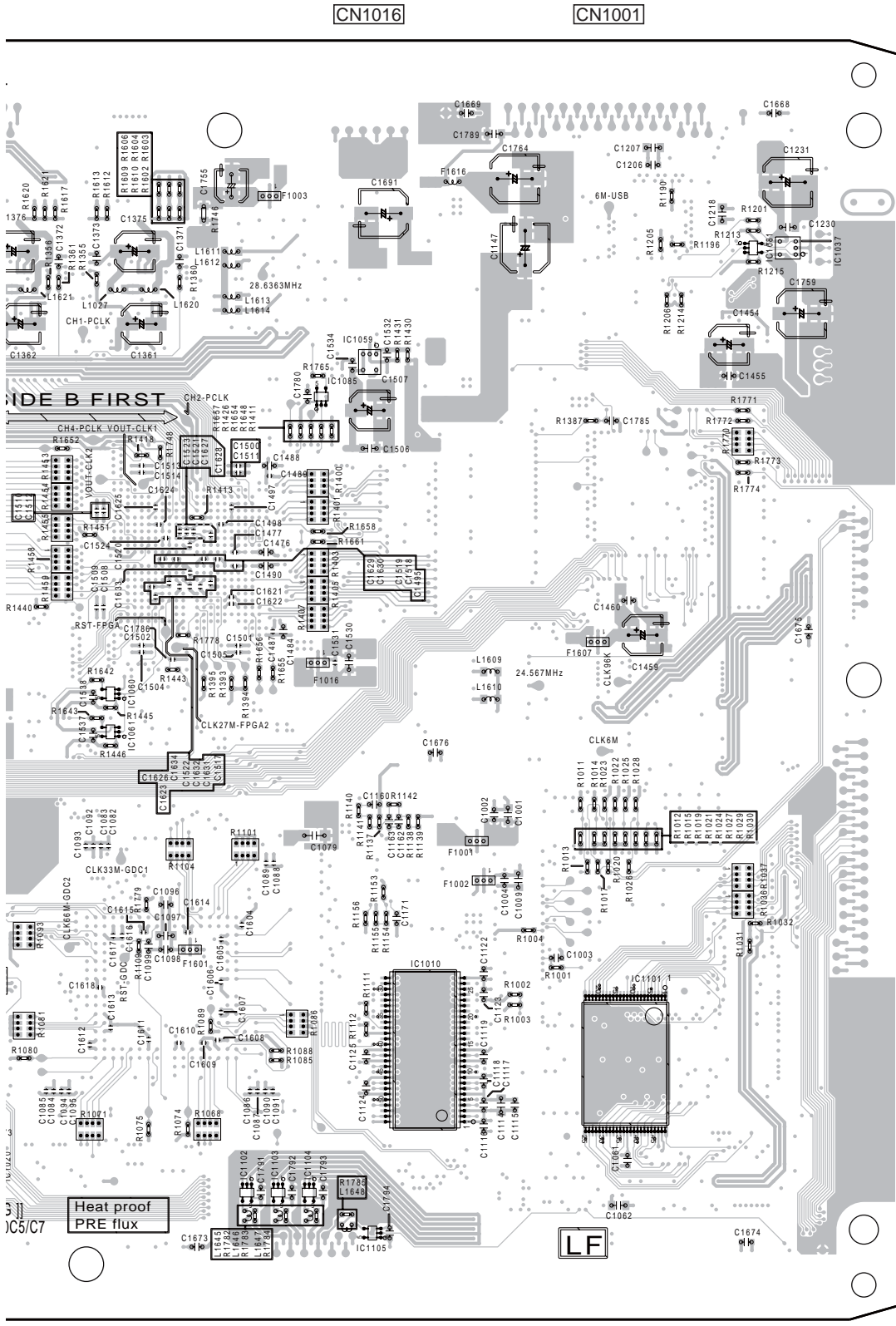
G

200

SVM-1000

SIDE B

A
B
C
D
E
F



CN1002

(DNP2301-C)

SVM-1000



11.5 SCPU and CRFD ASSYS

SIDE A

SCPU ASSY

J CN7102

CN3012

DWX2716-
SCPU

[[G]]
A30C5/C7

LF

1-SW4
2-SW5
3-SW6
4-SW7
5-SW8
6-SW9
7-SW10
8-SW11
9-SW12
10-SW13
11-SW14
12-SW15
13-SW16
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IC3007
IC3006 Q3006 Q3002
IC3017 IC3013
IC3011 IC3005

IC3014 IC3012 IC3010 Q3004 Q3008

IC3004
Q3009 Q3010 Q3011
Q3013
IC3008
IC3009

IC3002
Q3012
Q3001 Q3003 Q3005 Q3007

IC3001

CN3013

CN3004

CN3010

I CN6801

P CN6005

P CN6003

I



SIDE B

H SCPU ASSY

A

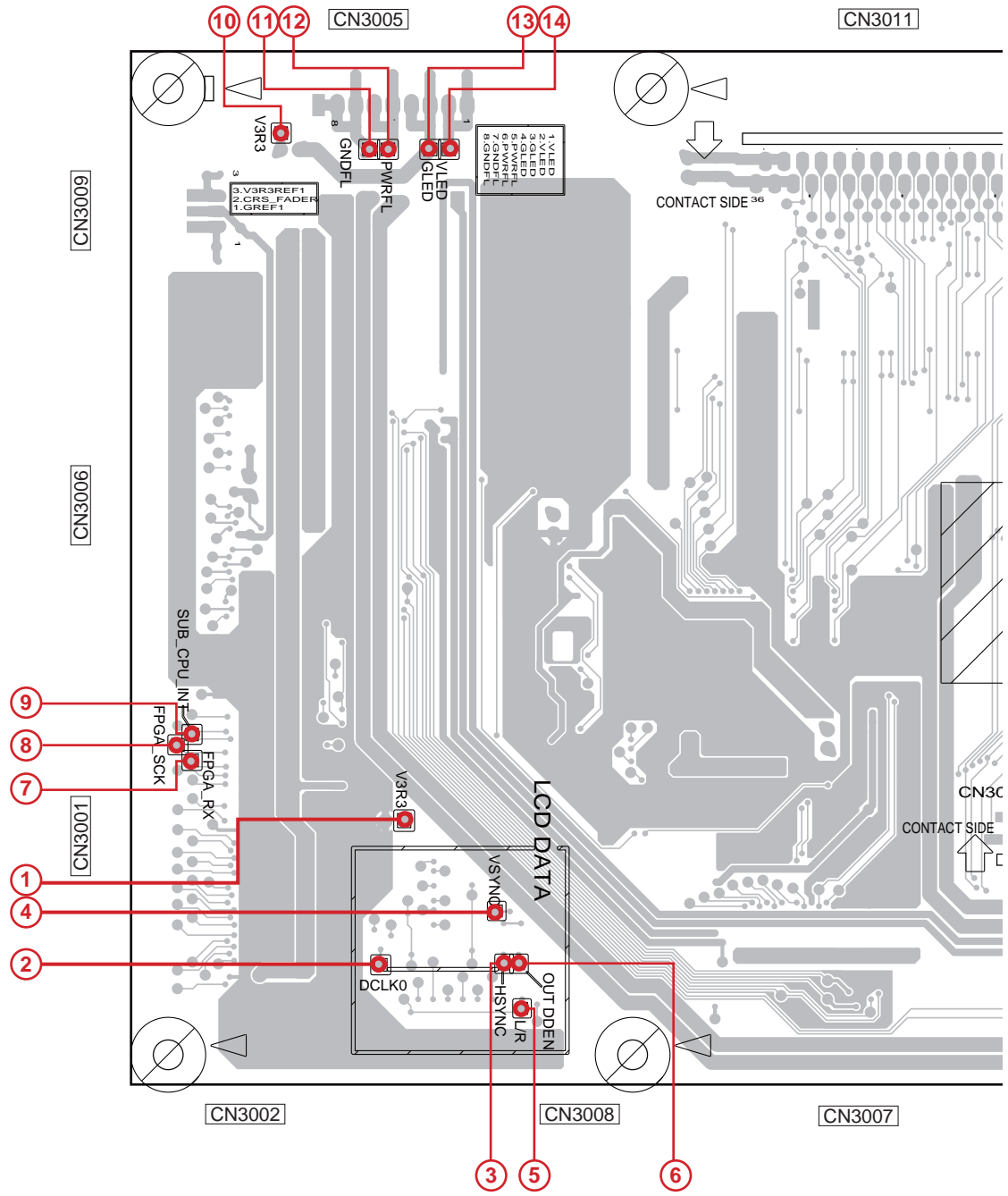
B

C

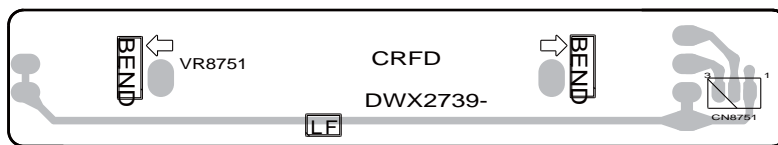
D

E

F



T CRFD ASSY



(DNP2307-C)

CN8751

SIDE B

A

B

C

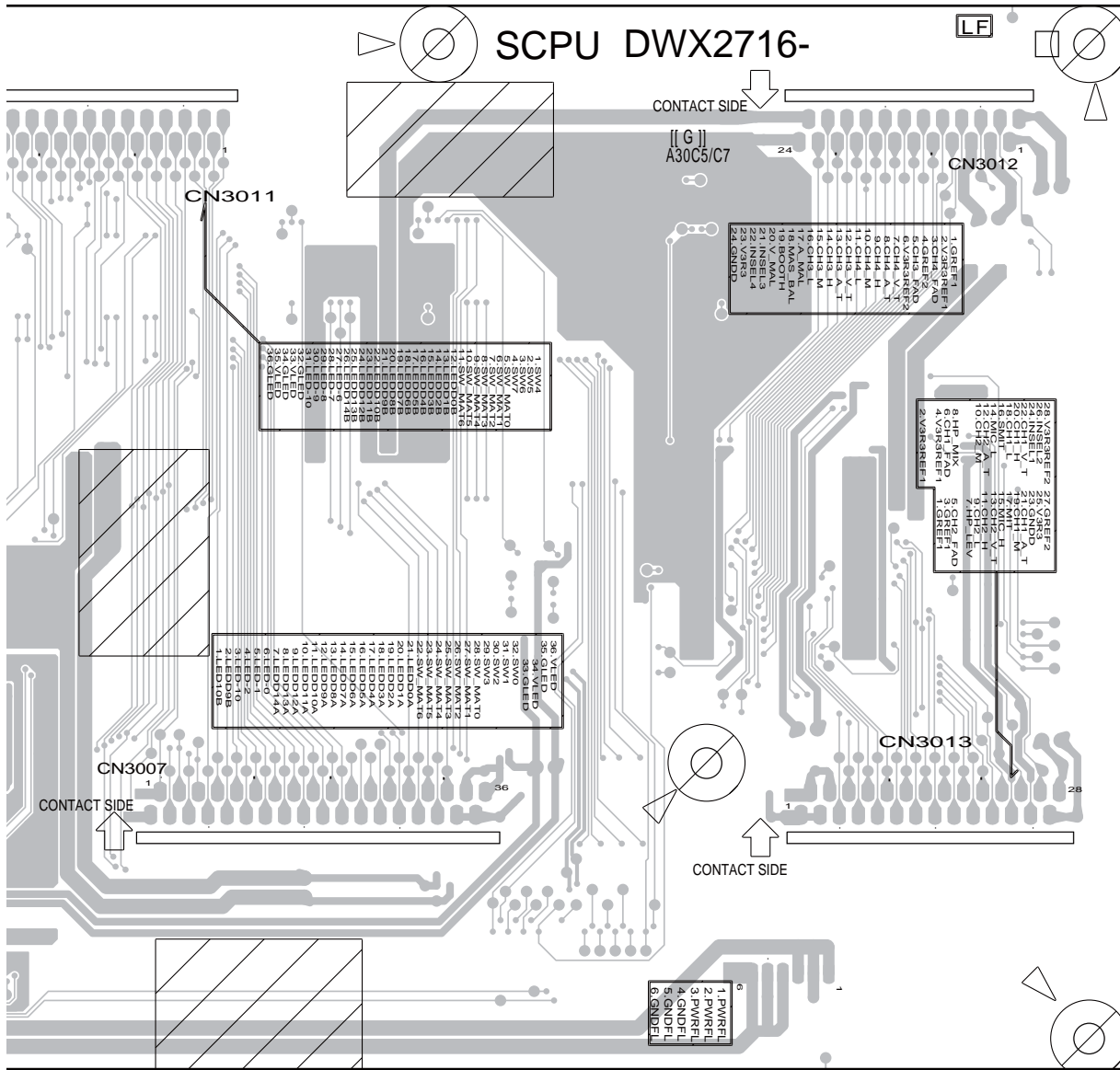
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CN3012



07

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CN3004

CN3013

(DNP2302-B)

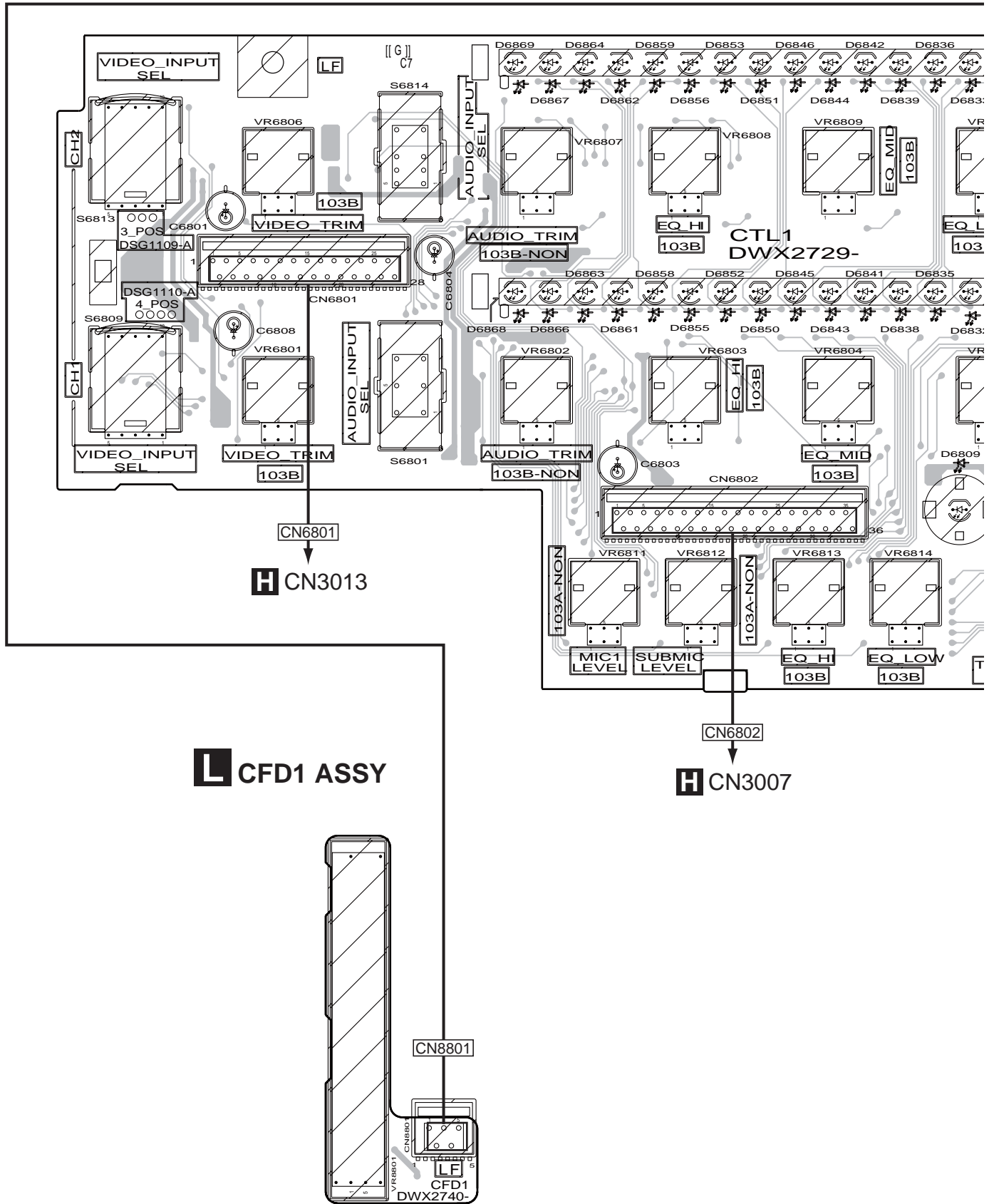
NOTE: The encircled numbers denote measuring point.



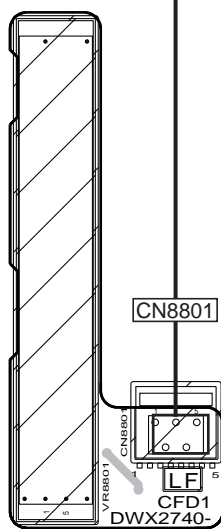
11.6 CTL1, CFD1 and CFD2 ASSYS

SIDE A

CTL1 ASSY



CFD1 ASSY



(DNP2307-C)



SIDE A

A

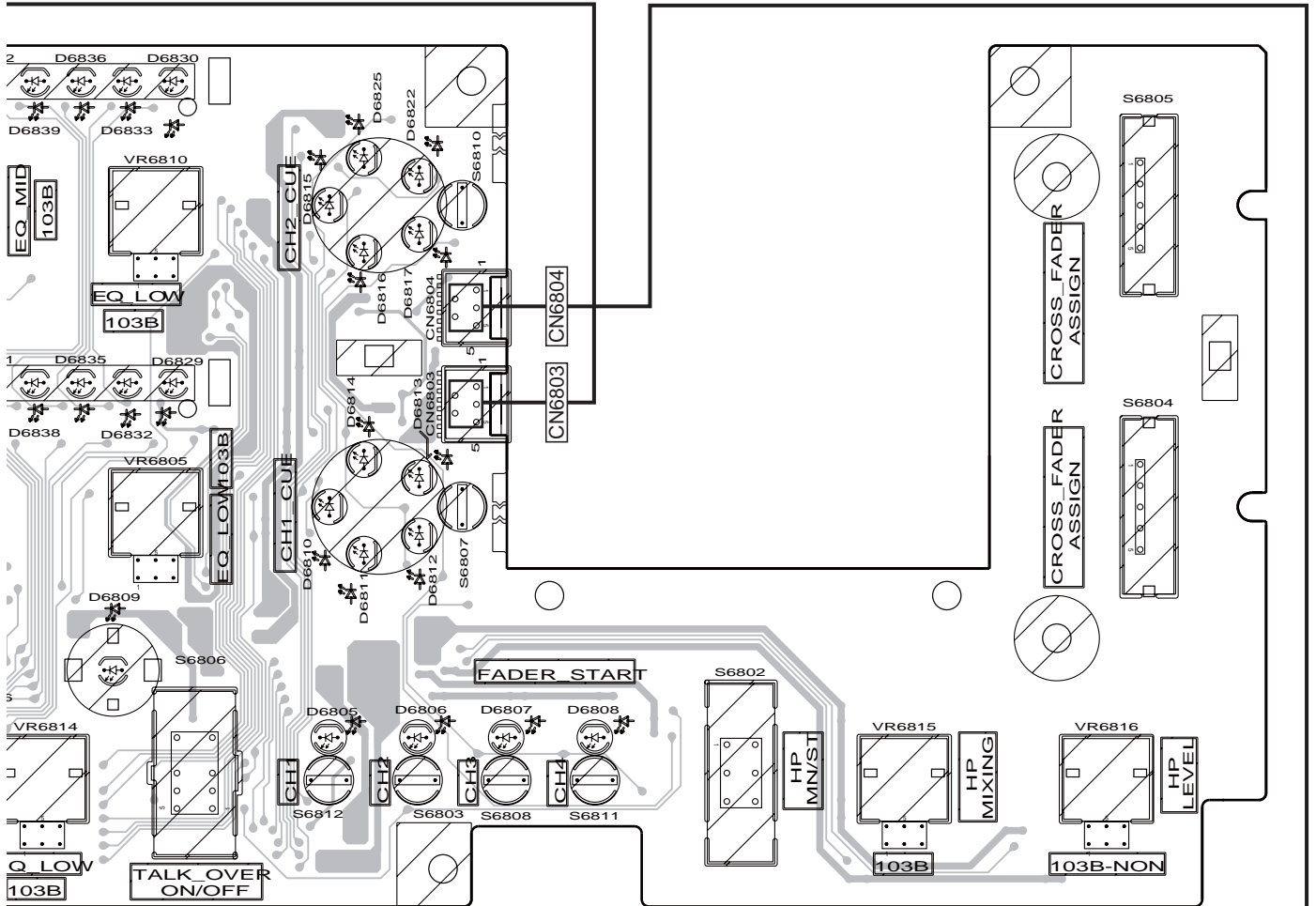
B

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D

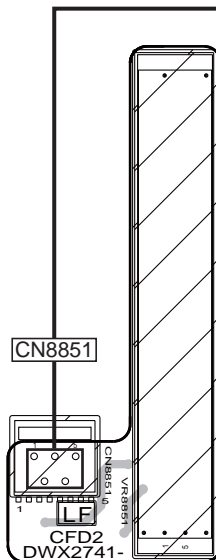
E

F



(DNP2306-D)

M CF2 ASSY



(DNP2307-C)



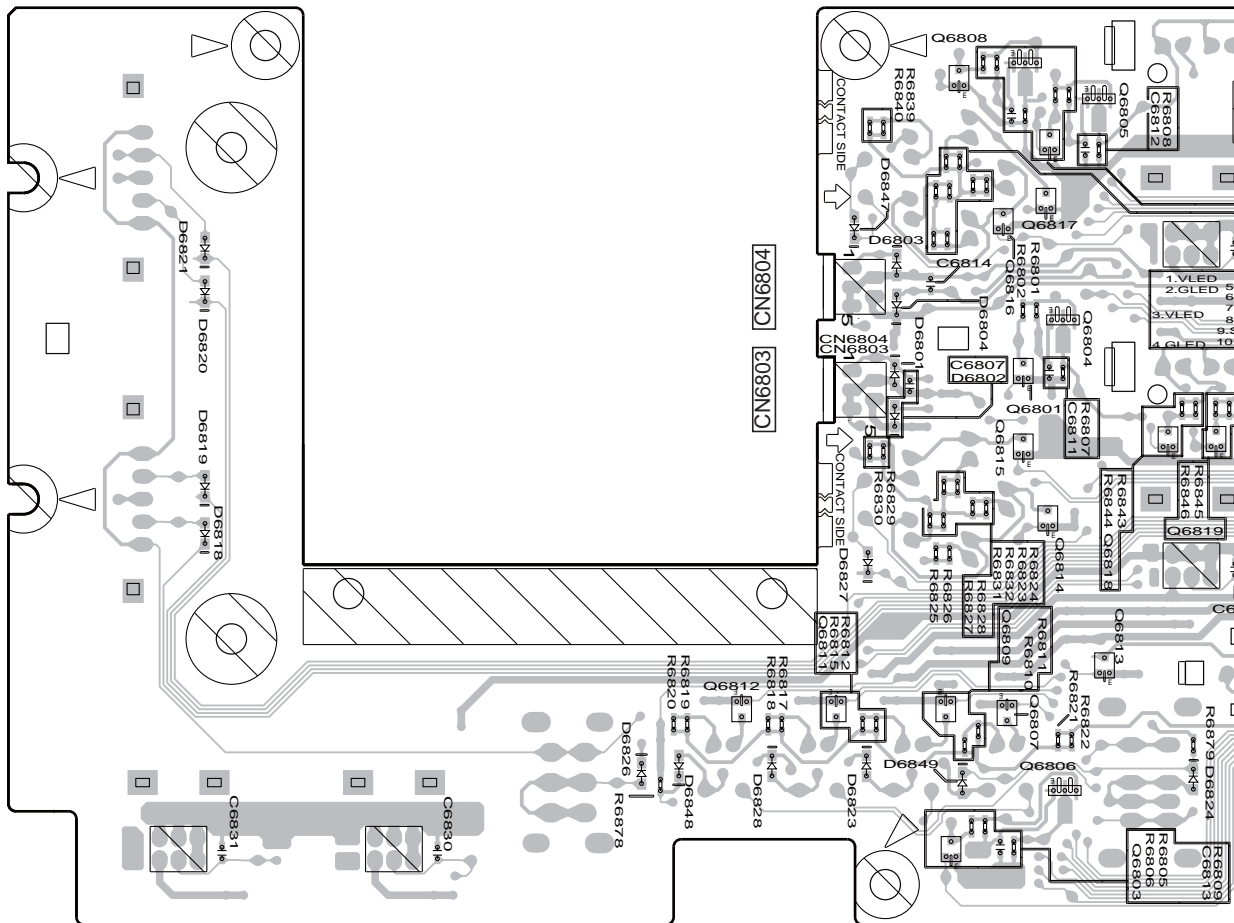
SIDE B

CTL1 ASSY

A

Q

- Q6808
- Q6805 Q6810
- Q6827
- Q6832
- Q6831
- Q6802
- Q6828
- Q6817 Q6829
- Q6830
- Q6816
- Q6804
- Q6801
- Q6815
- Q6823 Q6819 Q6826
- Q6824 Q6825 Q6822
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- Q6811
- Q6812
- Q6807
- Q6806
- Q6803

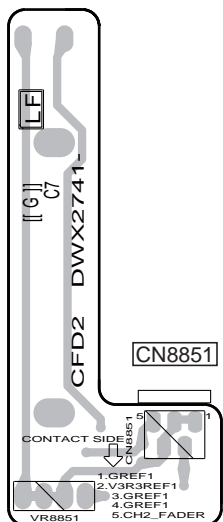


D

M CFD2 ASSY

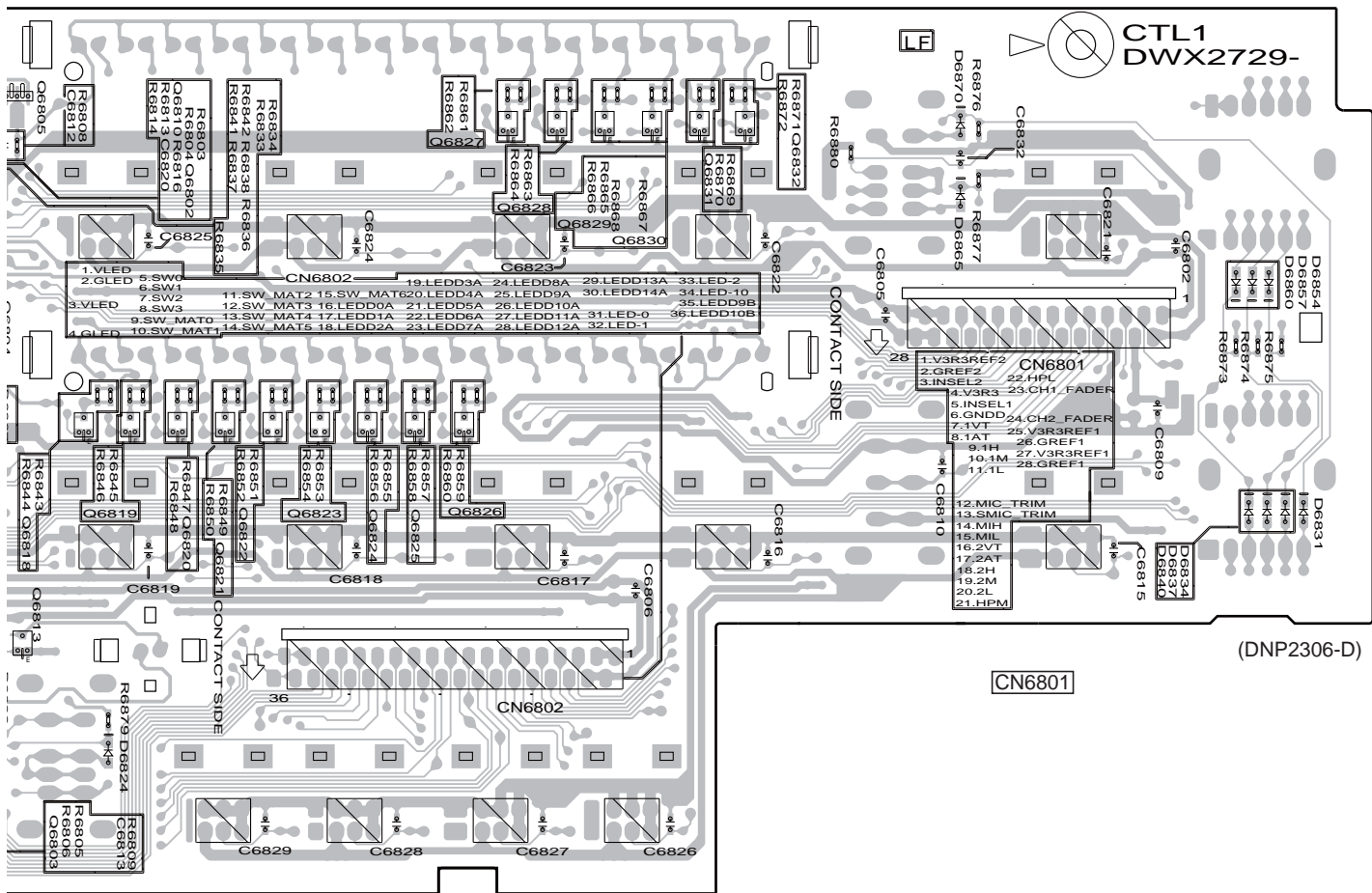
E

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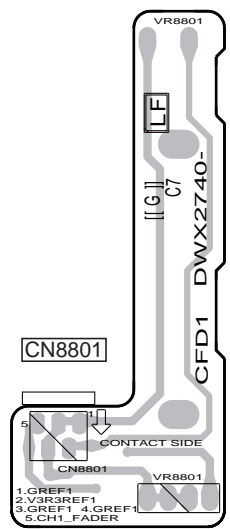
(DNP2307-C)





CN6802

CFD1 ASSY



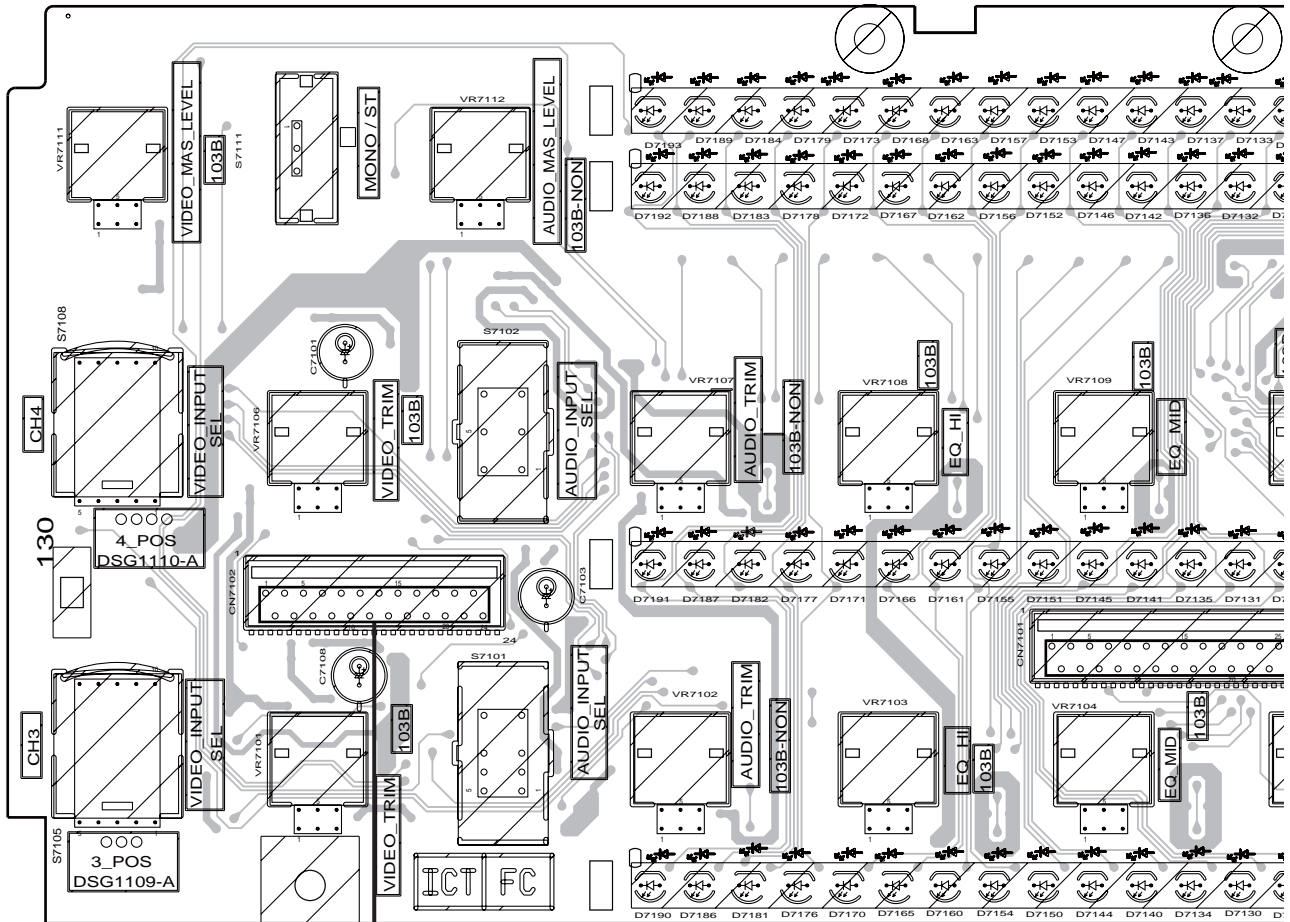
(DNP2307-C)



11.7 CTL2A, CFD3, CFD4 and CTL2B ASSYS

SIDE A

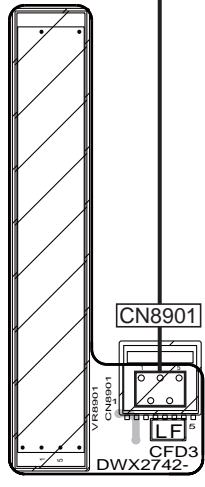
J CTL2A ASSY



CN7102

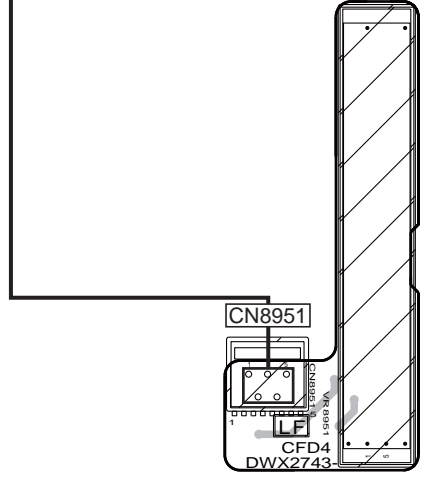
H CN3012

N CFD3 ASSY



(DNP2307-C)

O CFD4 ASSY



(DNP2307-C)

J N O

SIDE B

J CTL2A ASSY

A

Q

Q7116 Q7104

Q7108

Q7115

Q7107 Q7103
 Q7123 Q7124 Q7125
 Q7129 Q7130 Q7131
 Q7126 Q7127 Q7128
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 Q7117 Q7118 Q7119
 Q7114

Q7113

Q7106

C

Q7102

Q7112

Q7111

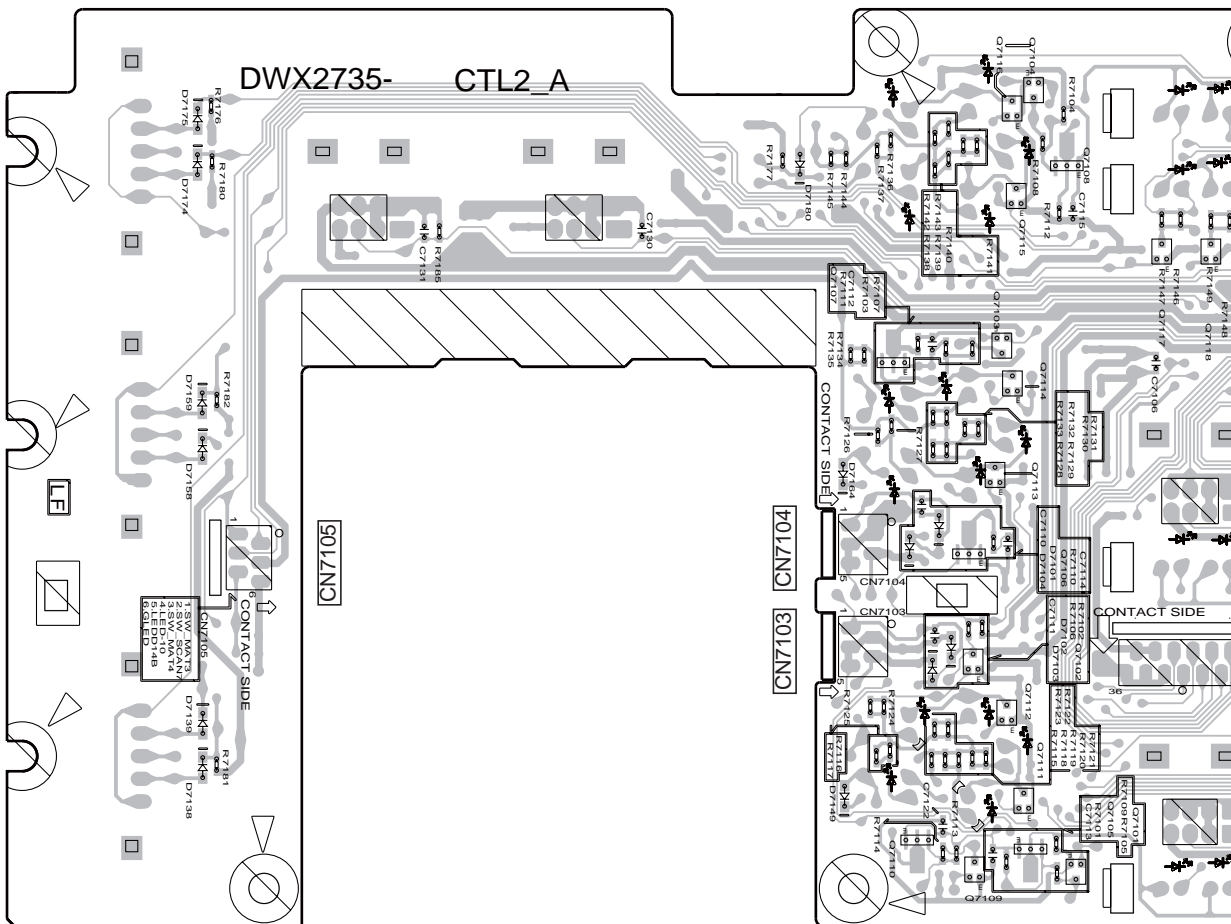
Q7105

Q7101

Q7110

Q7109

D



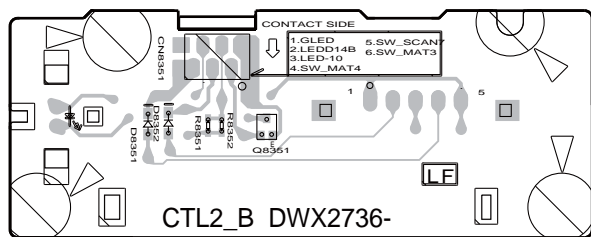
K CTL2B ASSY

IC Q

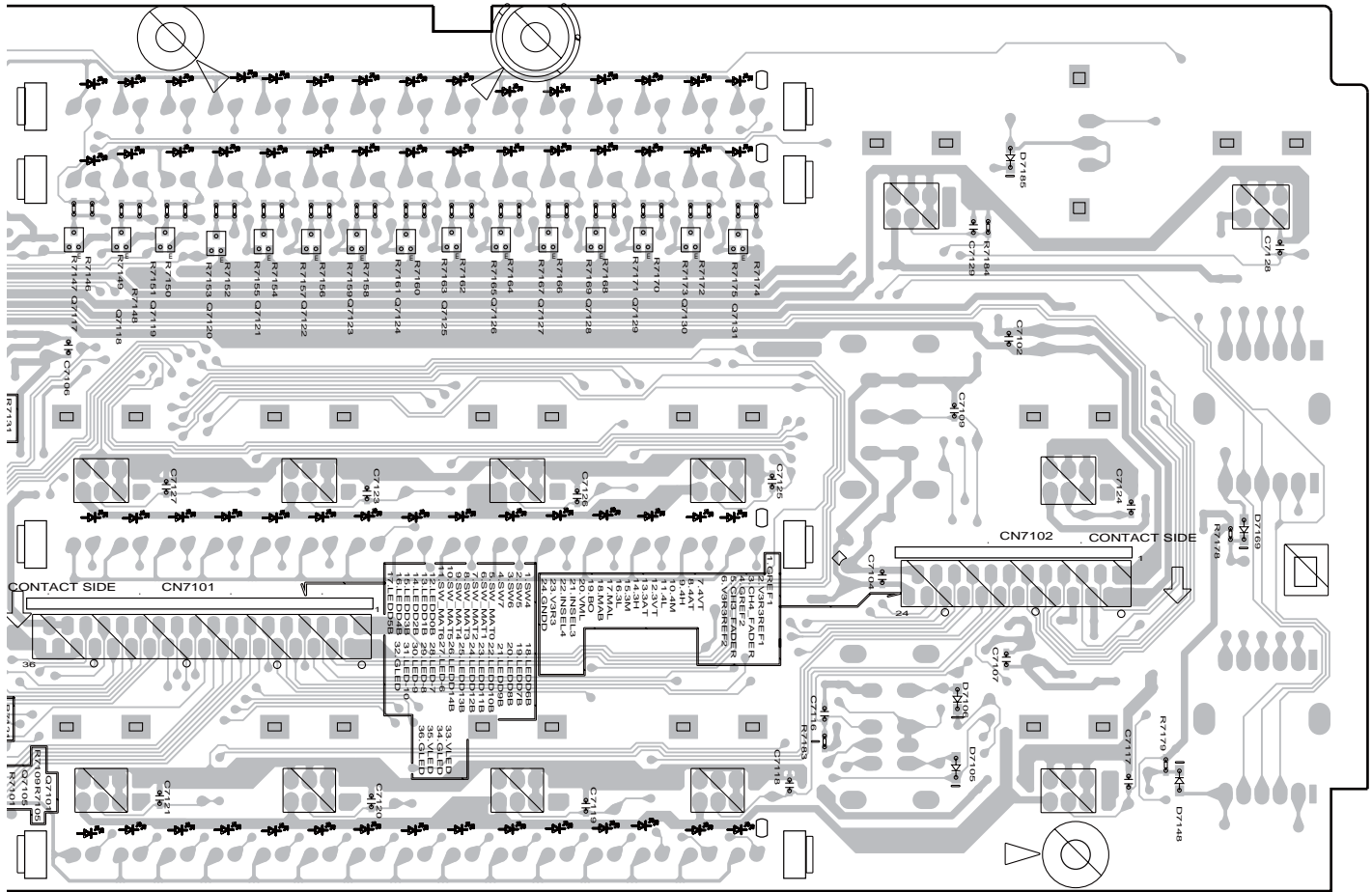
CN8351

E

Q8351



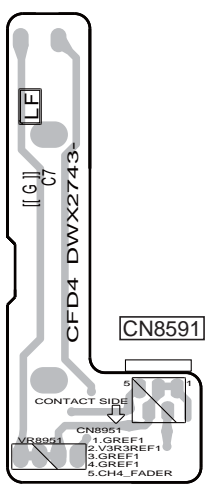
(DNP2307-C)



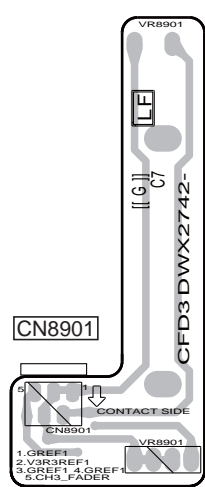
CN7101 CN7102 (DNP2307-C)

CFD4 ASSY

CFD3 ASSY



(DNP2307-C)

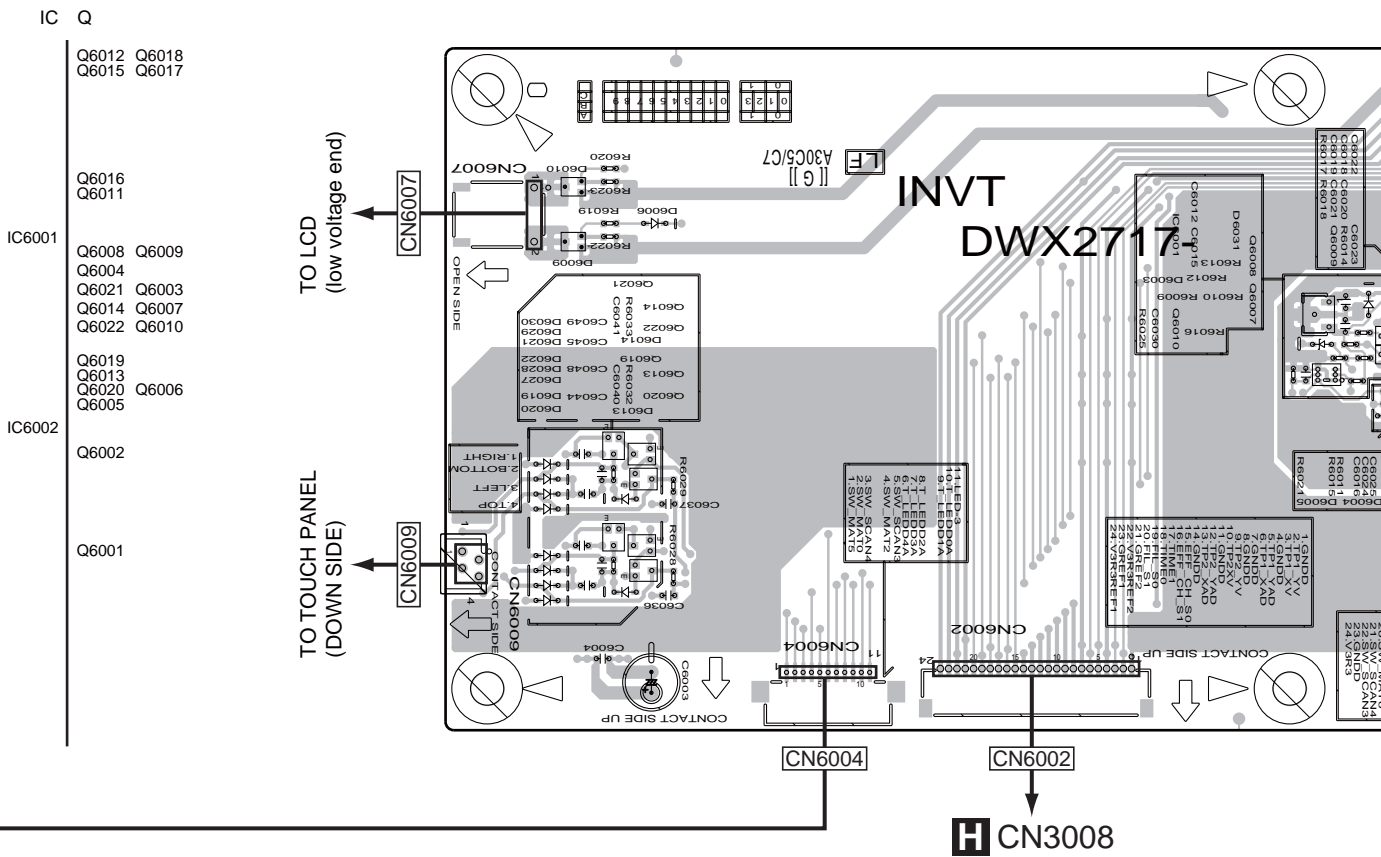


(DNP2307-C)

11.8 INVT, CTL3R, CTL3LB and CTL3LA ASSYS

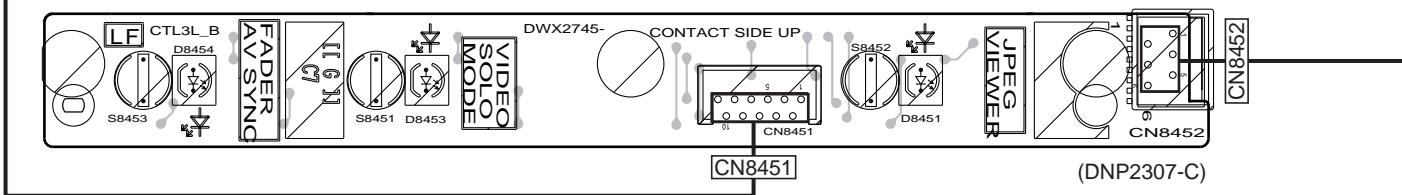
SIDE A

P INVT ASSY

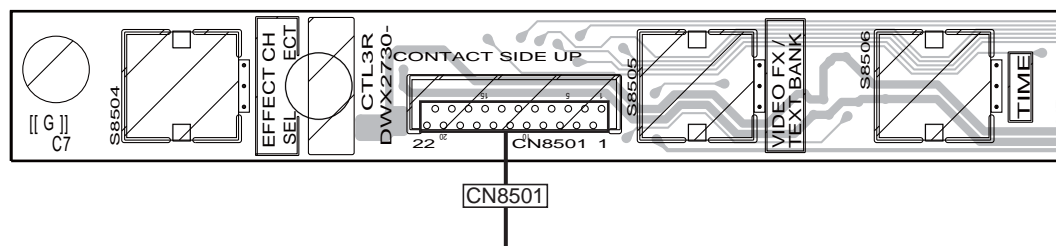


H CN3008

R CTL3LB ASSY



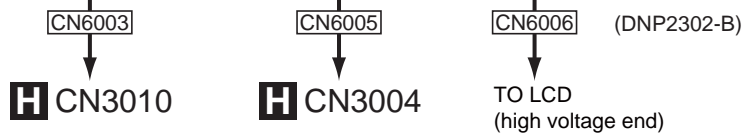
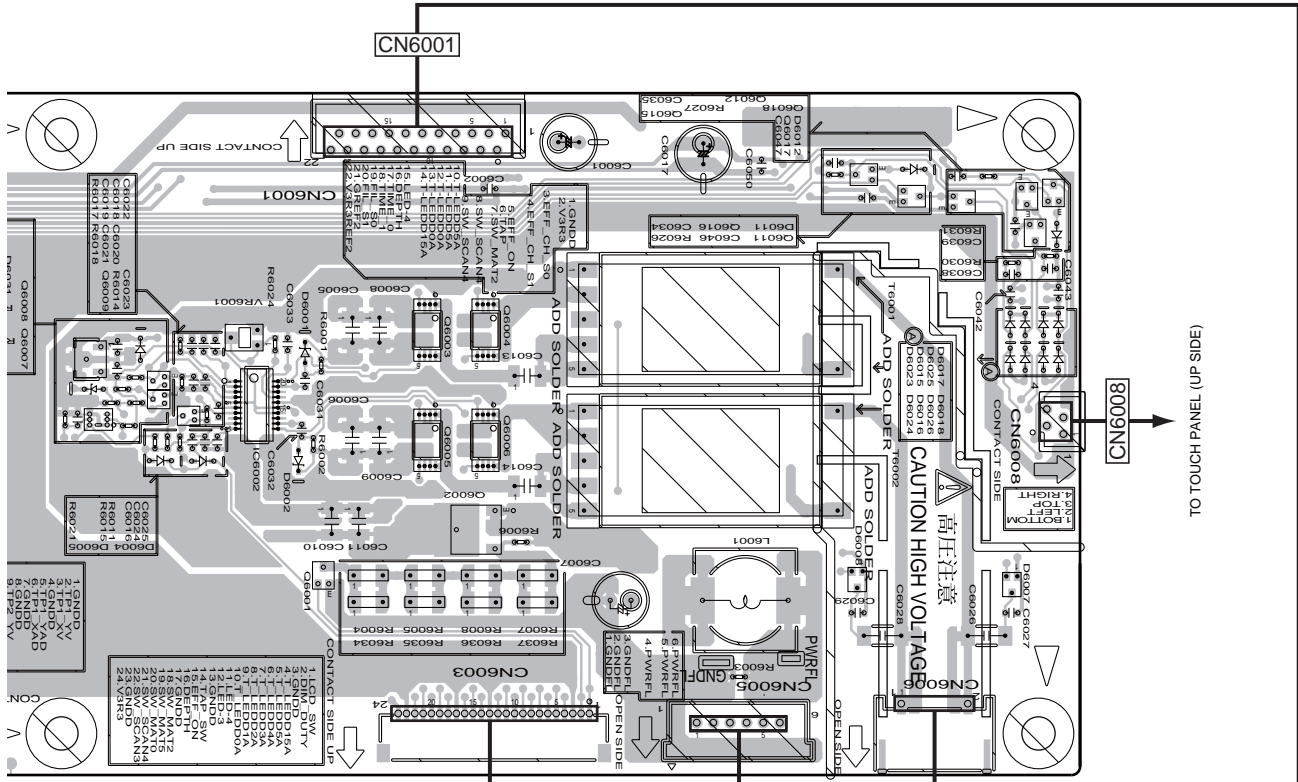
Q CTL3R ASSY



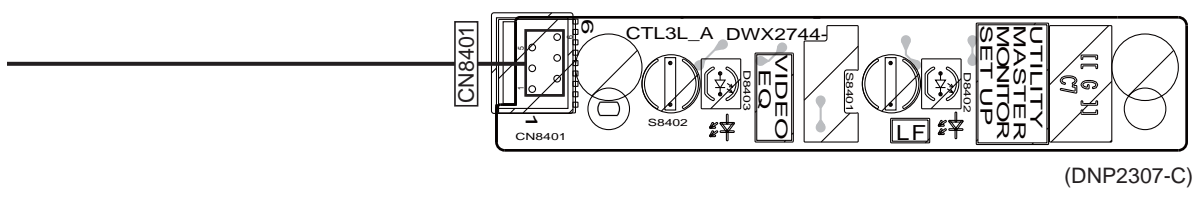
P Q R

SIDE A

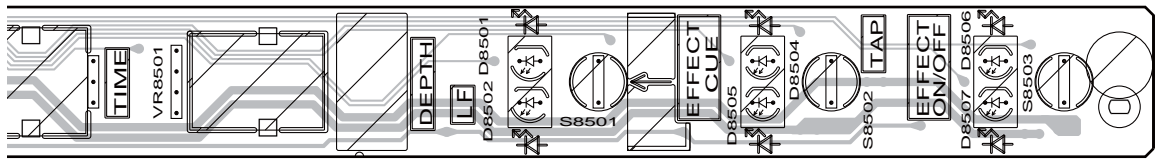
A
B
C
D
E
F



S CTL3LA ASSY



(DNP2307-C)



(DNP2306-D)

SIDE B

A

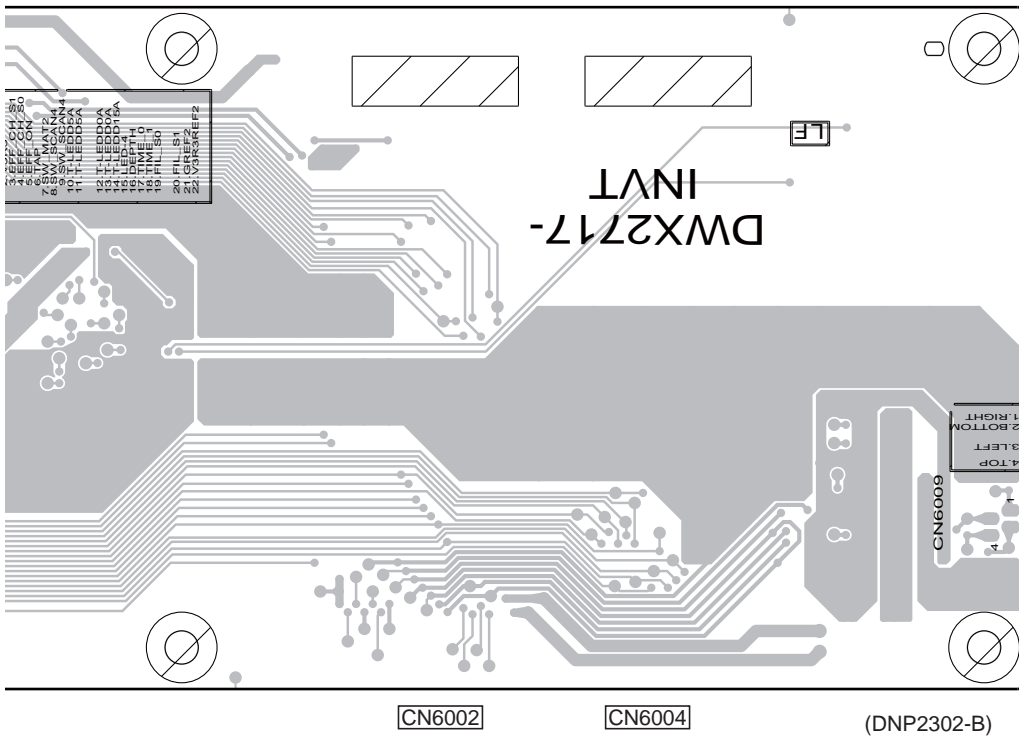
B

C

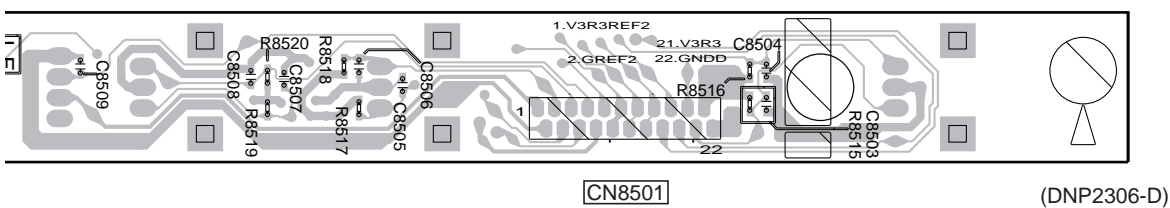
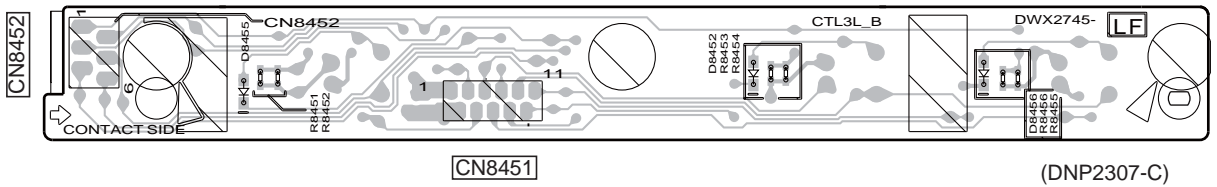
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R CTL3LB ASSY

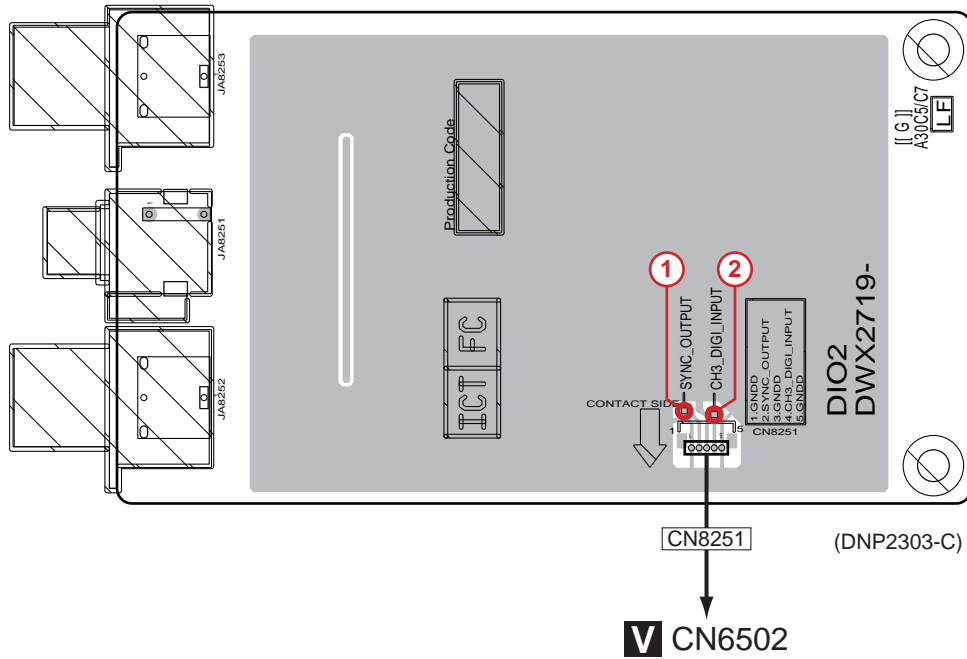


11.9 DIO2, SDIO, USB1 and USB2 ASSYS

SIDE A

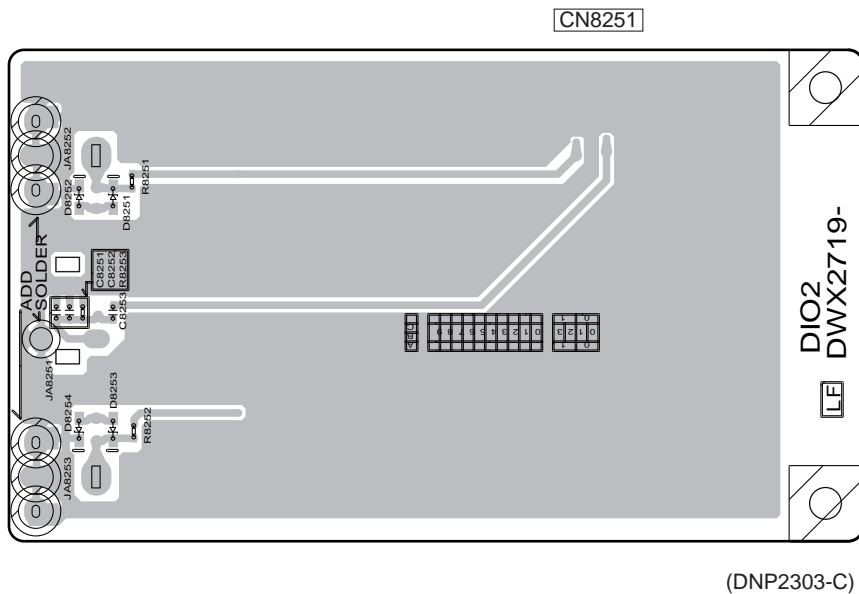
SIDE A

U DIO2 ASSY



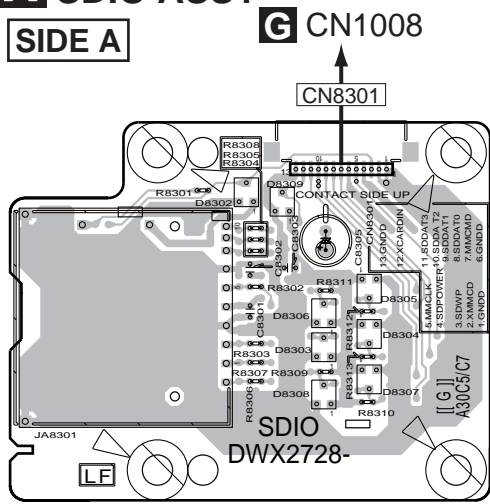
SIDE B

SIDE B



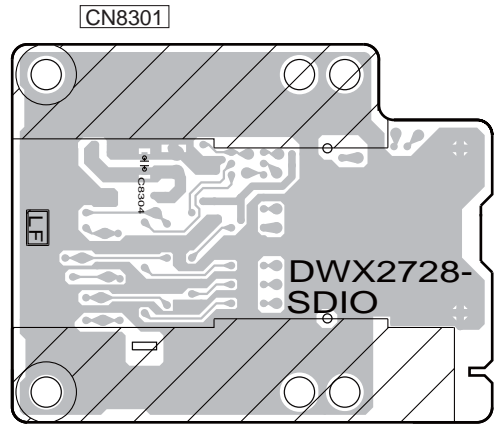
X SDIO ASSY

SIDE A



(DNP2305-C)

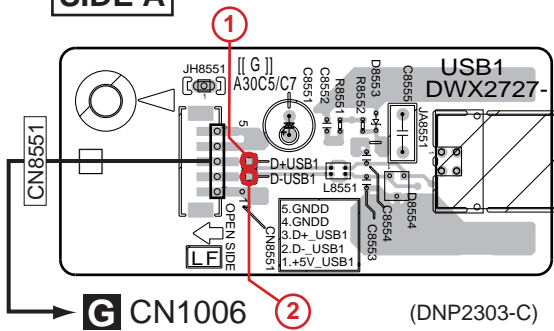
SIDE B



(DNP2305-C)

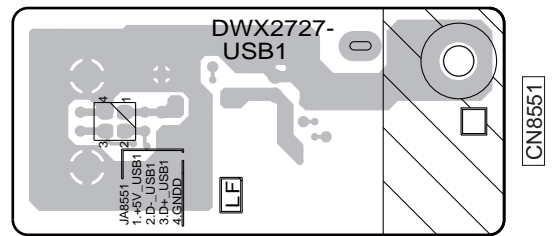
Y USB1 ASSY

SIDE A



(DNP2303-C)

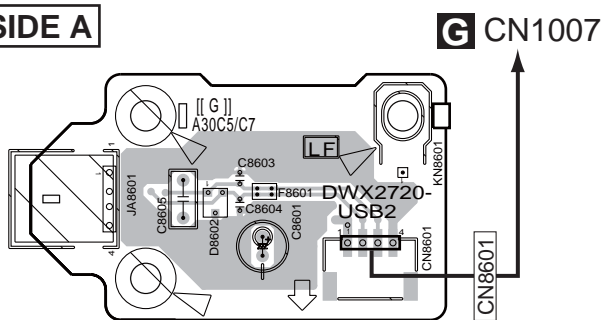
SIDE B



(DNP2303-C)

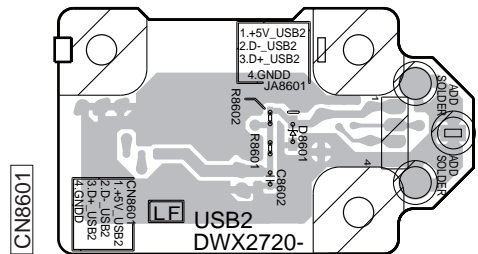
Z USB2 ASSY

SIDE A



(DNP2305-C)

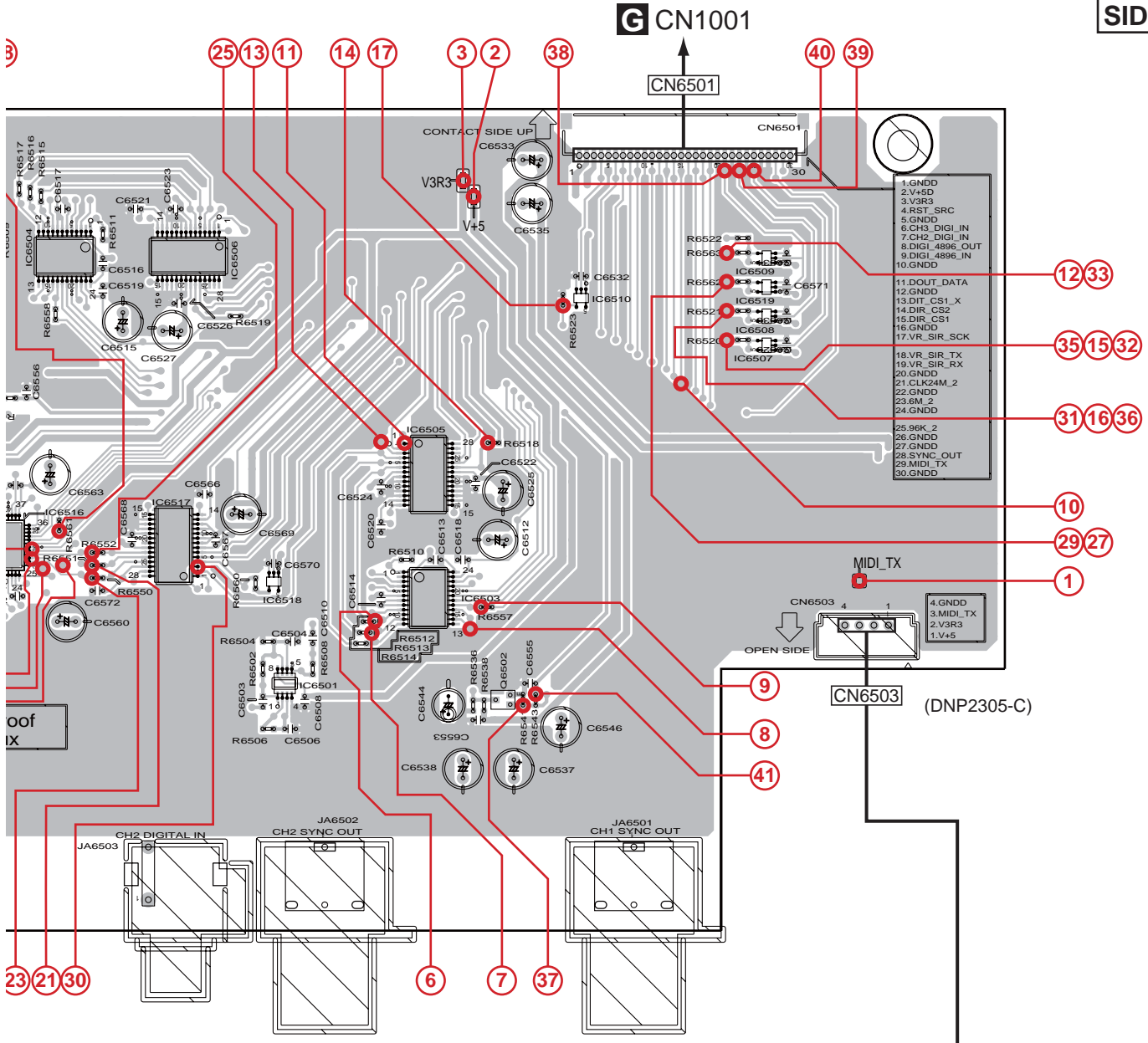
SIDE B



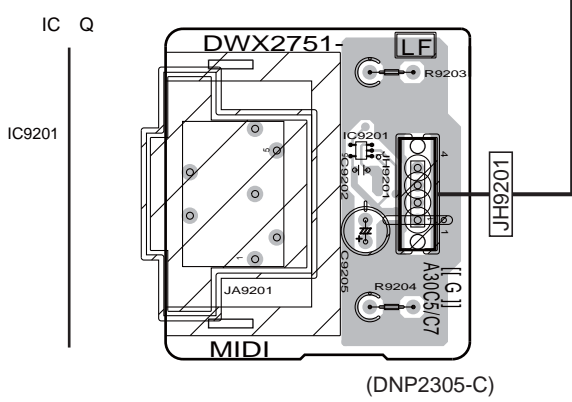
(DNP2305-C)

X Y Z

SIDE A



W MIDI ASSY



NOTE: The encircled numbers denote measuring point.

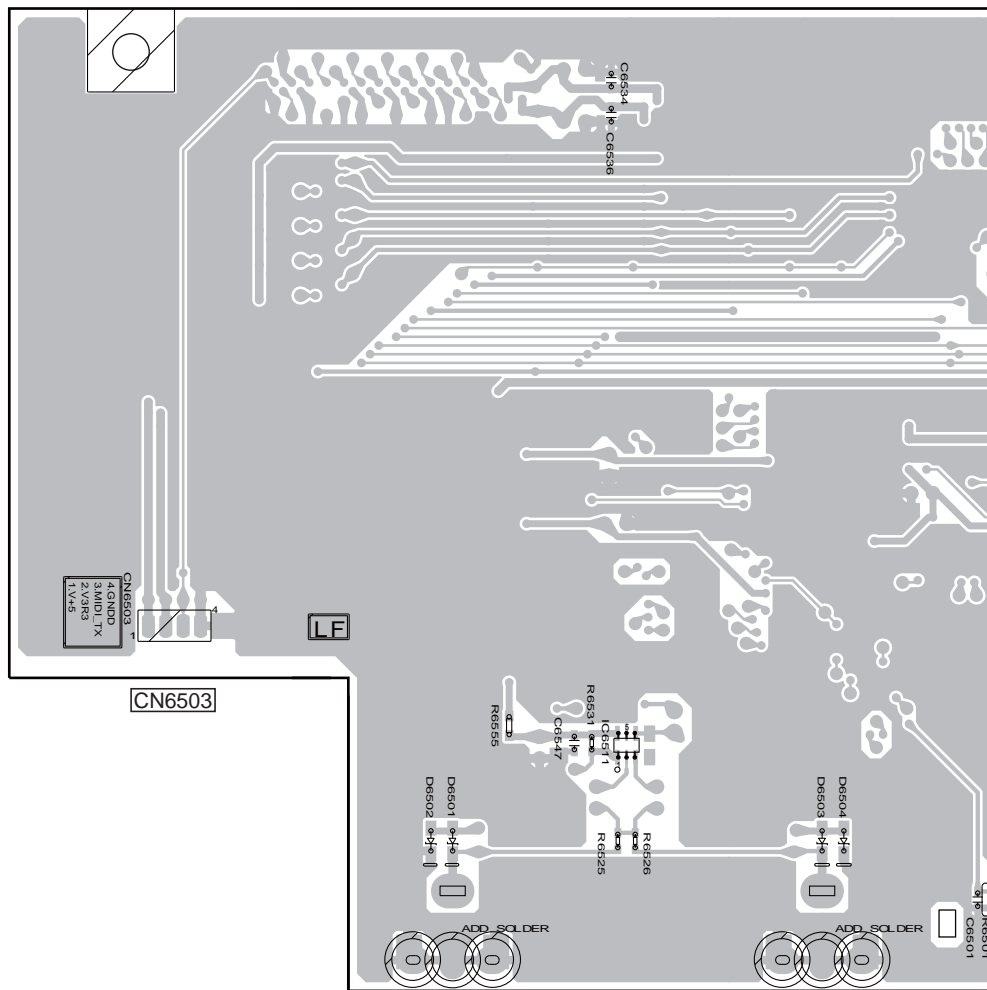
V W

SIDE B

V DIO1 ASSY

IC Q

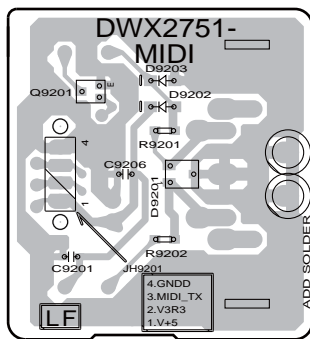
CN6501



W MIDI ASSY

IC Q

Q9201



(DNP2305-C)

V W

SIDE B

A

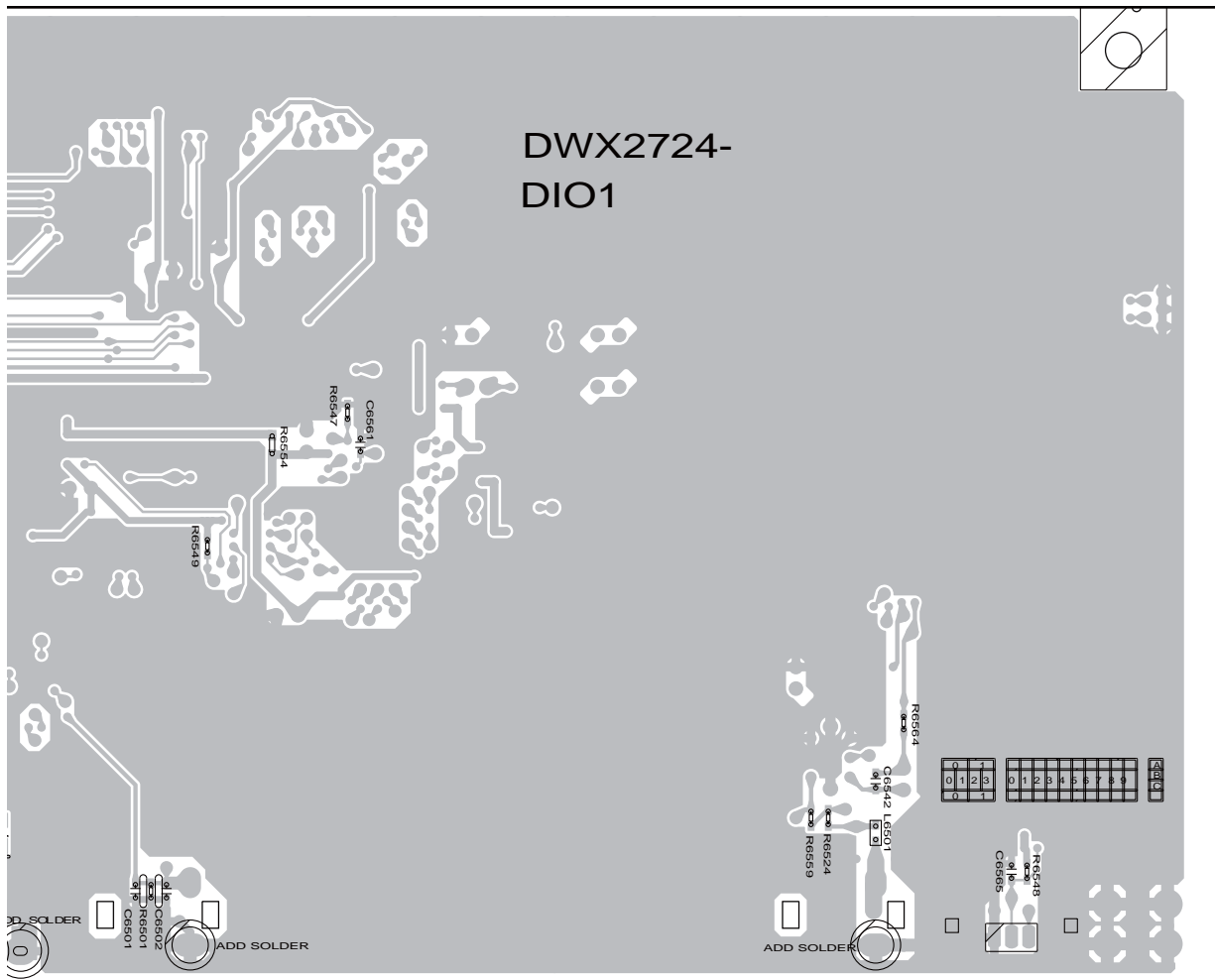
B

C

D

E

F

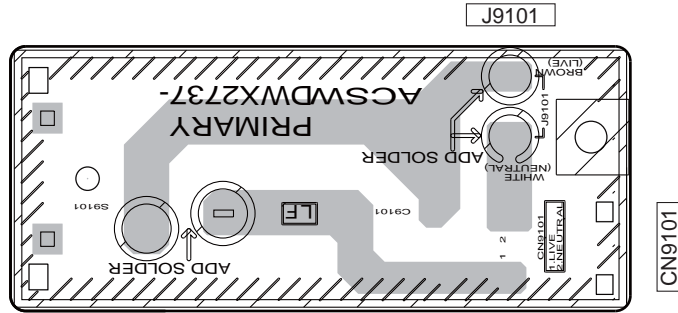


(DNP2305-C)

SIDE B

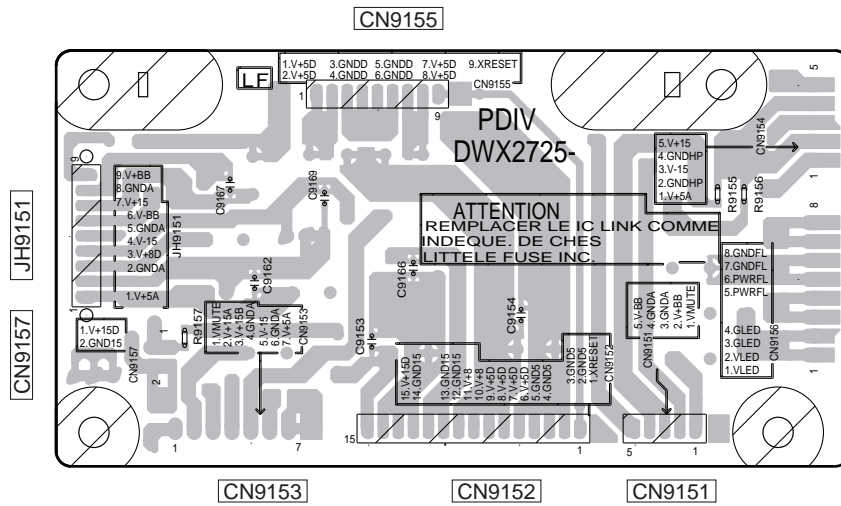
SIDE B

AC ACSW ASSY



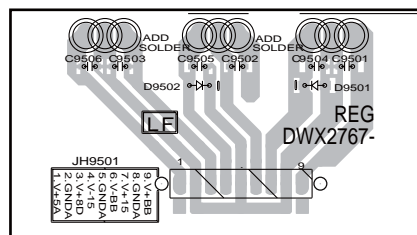
(DNP2307-C)

AD PDIV ASSY



(DNP2305-C)

AE REG ASSY



(DNP2305-C)

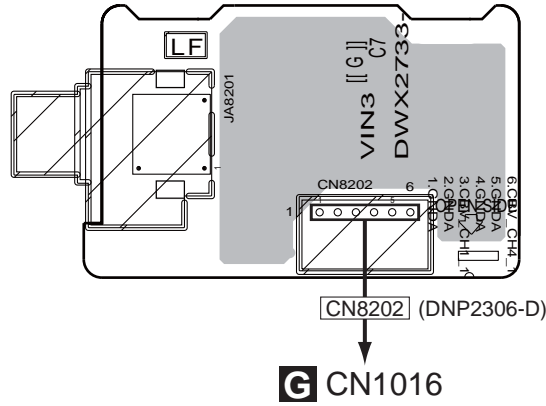
AC AD AE

11.12 VIN3, ILMR and ILM L ASSYS

SIDE A

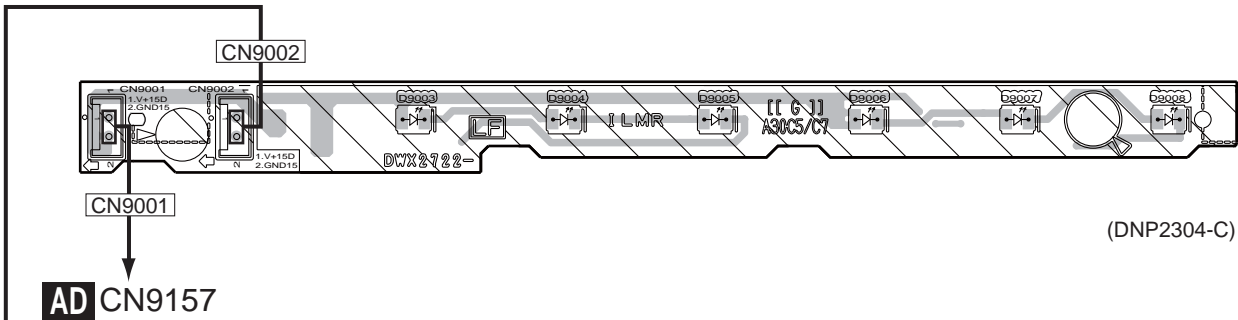
SIDE A

E VIN3 ASSY

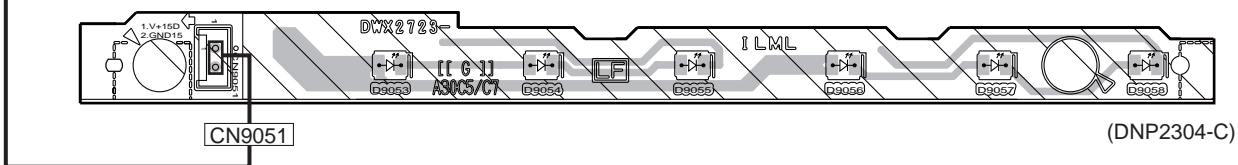


G CN1016

AF ILMR ASSY



AG ILM L ASSY



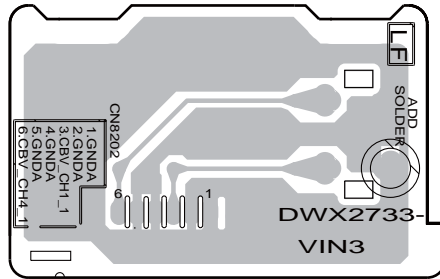
E AF AG

SIDE B

SIDE B

A

E VIN3 ASSY



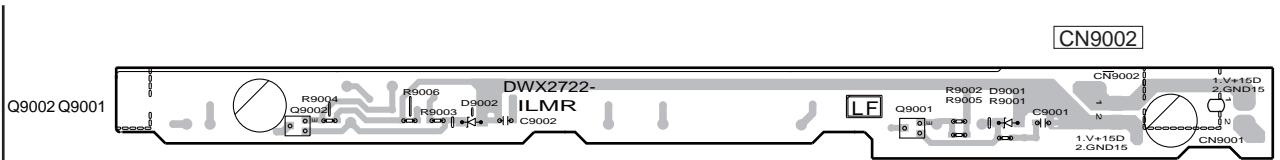
CN8202

(DNP2306-D)

B

AF ILMR ASSY

IC Q



CN9002

CN9001

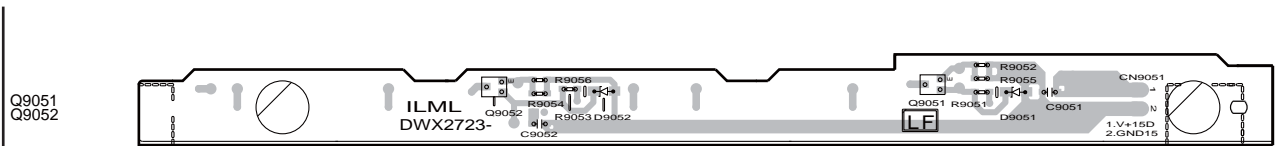
(DNP2304-C)

C

D

AG ILMML ASSY

IC Q



CN9051 (DNP2304-C)

E

F

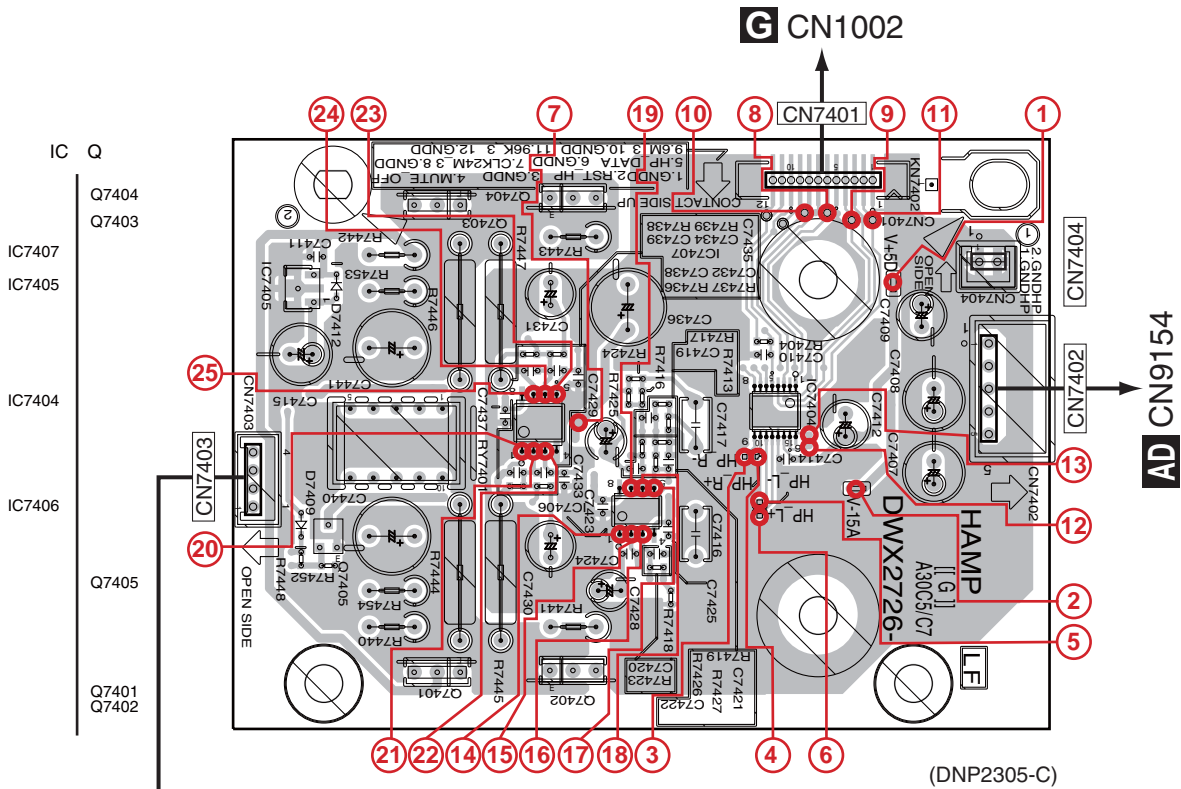
E AF AG

11.13 HAMP and HJCK ASSYS

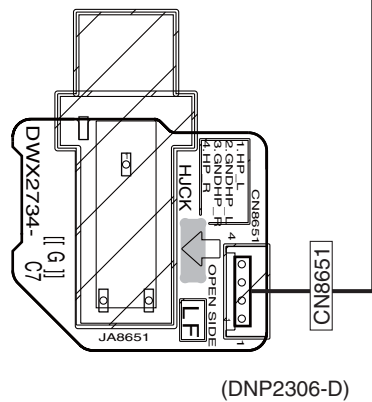
SIDE A

SIDE A

AA HAMP ASSY



AB HJCK ASSY

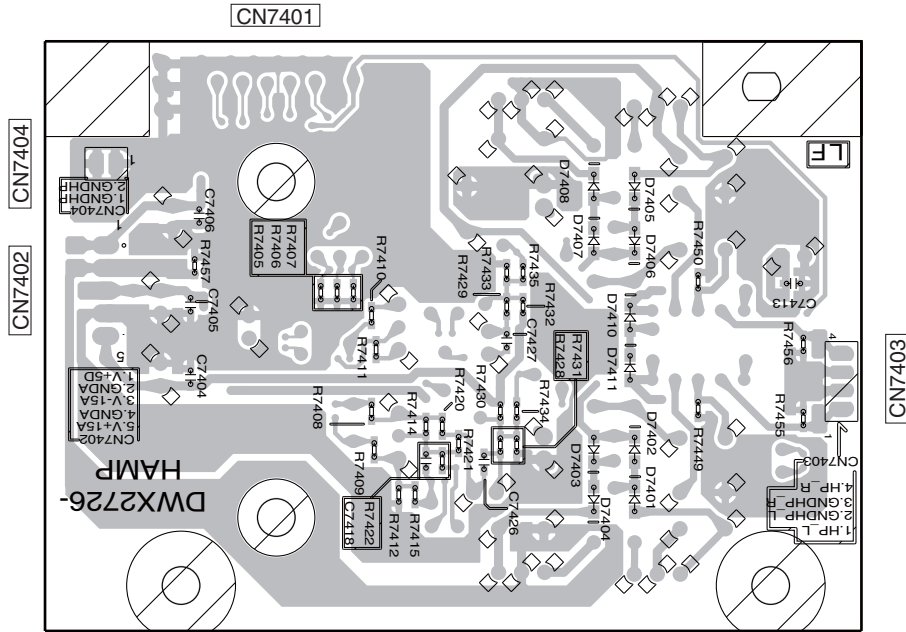


AA AB

SIDE B

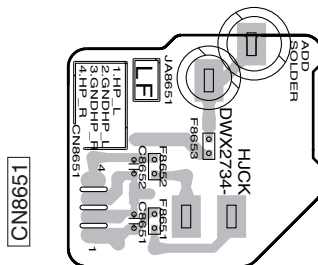
SIDE B

AA HAMP ASSY



(DNP2305-C)

AB HJCK ASSY



(DNP2306-D)

NOTE: The encircled numbers denote measuring point.

AA AB

12. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 ●The Δ mark found on some component parts indicates the importance of the safety factor of the part.
 Therefore, when replacing, be sure to use parts of identical designation.
 ●When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω \rightarrow 56 x 10¹ \rightarrow 561 RD1/4PU $\boxed{5}\boxed{6}\boxed{1}\boxed{J}$
 47k Ω \rightarrow 47 x 10³ \rightarrow 473 RD1/4PU $\boxed{4}\boxed{7}\boxed{3}\boxed{J}$
 0.5 Ω \rightarrow R50 RN2H $\boxed{R}\boxed{5}\boxed{0}\boxed{K}$
 1 Ω \rightarrow 1R0 RS1P $\boxed{1}\boxed{R}\boxed{0}\boxed{K}$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω \rightarrow 562 x 10¹ \rightarrow 5621 RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}\boxed{F}$

Mark No. Description Part No.

Mark No. Description Part No.

LIST OF ASSEMBLIES

A AUD1 ASSY

SEMICONDUCTORS

	1..MAIN ASSY	DWX2715
NSP	1..SCIV ASSY	DWM2302
	2..SCPU ASSY	DWX2716
	2..INVT ASSY	DWX2717
C NSP	1..AUDI ASSY	DWM2303
	2..AUD1 ASSY	DWX2718
	2..DIO2 ASSY	DWX2719
	2..USB1 ASSY	DWX2727
NSP	1..AUIL ASSY	DWM2304
	2..AUD2 ASSY	DWX2721
	2..ILMR ASSY	DWX2722
	2..ILML ASSY	DWX2723
NSP	1..DIHP ASSY	DWM2305
	2..USB2 ASSY	DWX2720
	2..DIO1 ASSY	DWX2724
D	2..PDIV ASSY	DWX2725
	2..HAMP ASSY	DWX2726
	2..SDIO ASSY	DWX2728
	2..MIDI ASSY	DWX2751
	2..REG ASSY	DWX2767
NSP	1..CTVI ASSY	DWM2306
	2..CTL1 ASSY	DWX2729
	2..CTL3R ASSY	DWX2730
	2..VIO1 ASSY	DWX2731
	2..VIO2 ASSY	DWX2732
	2..VIN3 ASSY	DWX2733
	2..HJCK ASSY	DWX2734
E NSP	1..CTFD ASSY	DWM2307
	2..CTL2A ASSY	DWX2735
	2..CTL2B ASSY	DWX2736
Δ	2..ACSW ASSY	DWX2737
	2..MJCK ASSY	DWX2738
	2..CRFD ASSY	DWX2739
	2..CFD1 ASSY	DWX2740
	2..CFD2 ASSY	DWX2741
	2..CFD3 ASSY	DWX2742
	2..CFD4 ASSY	DWX2743
	2..CTL3LA ASSY	DWX2744
	2..CTL3LB ASSY	DWX2745
F Δ	1..Power Supply Unit	DWR1440

IC	4001,4004,4011,4013	NJM4580MD
IC	4002,4005,4007,4018	TC7SET08FUS1
Δ IC	4003,4020,4035	LTC1590CS
IC	4006,4008,4010	TC7SH08FUS1
IC	4009	AK5381VT
IC	4012,4045,4046	NE5532AD
IC	4014,4016,4026-4029	NJM4580MD
Δ IC	4015,4030,4057,4058	LM4040EIM3-2.5
Δ IC	4017,4032	CS5361-KS
IC	4019,4022,4033,4034	TC7SET08FUS1
IC	4021,4036	OPA2134UA
IC	4023-4025,4038-4040	TC7SH08FUS1
IC	4031	NJM4580MD
IC	4037,4041-4043,4049	TC7SET08FUS1
IC	4044	AK4382AVT
IC	4047,4048	NJM5532DD
IC	4050-4055	TC7SH08FUS1
IC	4056	TC7SET08FUS1
Q	4001-4004,4014	2SC4081
Q	4005-4008	2SK371D1
Q	4009-4013	DTC124EUA
Q	4015-4022	2SC3326
D	4001-4010,4012,4013	1SS355
D	4011,4018	UDZS5R6(B)
D	4014-4017,4021-4024	RB706D-40
D	4019,4020	1SS355

MISCELLANEOUS

F	4001-4005 FERRITE CORE	VTF1093
JA	4001,4007,4008 HEADPHONE JACK	DKN1281
JA	4003,4005 JACK	VKB1133
JA	4004,4006 JACK	RKN1004
KN	4001,4002 WRAPPING TERMINAL	VNF1084
RY	4001,4002 RELAY	VSR1008
CN	4002 CONNECTOR POST	B3B-PH-K-S
CN	4010 17P CONNECTOR	DKN1511
CN	4011 34P CONNECTOR	DKN1512
CN	4014 CONNECTOR POST	S8B-EH
CN	4015,4016 19P CONNECTOR	19R-1.25FJ

Mark No. Description**Part No.****RESISTORS**

R 4001-4004,4026,4027
 R 4009,4012,4013,4016
 R 4010,4011,4014,4015
 R 4017,4018
 R 4019-4022,4189-4196

RN1/16SE1000D
 RN1/16SE1501D
 RN1/16SE4701D
 RN1/16SE3300D
 RN1/16SE3901D

R 4036,4037,4118-4121
 R 4042,4045,4048,4051
 R 4043,4044,4049,4050
 R 4046,4047,4124-4127
 R 4052,4053,4128-4131

RN1/16SE1001D
 RN1/16SE8200D
 RN1/16SE3301D
 RN1/16SE1102D
 RN1/16SE1502D

R 4056,4057
 R 4060,4061
 R 4062,4063
 R 4070-4077,4086-4089
 R 4078-4081,4146-4149

RSK1/16S510J
 RSK1/16S273J
 RSK1/16S222J
 RN1/16SE3301D
 RN1/16SE2401D

R 4090,4091,4158,4159
 R 4092,4095,4096,4099
 R 4093,4094,4097,4098
 R 4101,4102,4169,4170
 R 4103,4104,4171,4172

RN1/16SE3002D
 RN1/16SE1201D
 RN1/16SE3601D
 RN1/16SE2002D
 RN1/16SE1303D

R 4138-4145,4154-4157
 R 4160,4163,4164,4167
 R 4161,4162,4165,4166
 R 4197-4200,4209-4213
 R 4201-4208

RN1/16SE3301D
 RN1/16SE1201D
 RN1/16SE3601D
 RN1/16SE2202D
 RN1/16SE3301D

R 4214,4215,4217,4218
 R 4216,4219,4222
 R 4220,4221,4223,4224
 R 4225-4228
 R 4233-4240

RN1/16SE3001D
 RN1/16SE2202D
 RN1/16SE3001D
 RN1/16SE2202D
 RN1/16SE8201D

R 4241-4256
 R 4257-4260
 R 4273,4275,4277,4279
 R 4281-4284
 Other Resistors

RN1/16SE1002D
 RN1/16SE2700D
 RN1/16SC68R0D
 RD1/2VM101J
 RS1/16S###J

CAPACITORS

C 4001,4049-4052
 C 4002,4055,4058,4150
 C 4003,4004,4009-4012
 C 4005-4008,4036,4037
 C 4013,4014

CCSRCH221J50
 CFTLA103J50
 CCSRCH102J50
 CCH1559
 CKSRYB472K50

C 4015-4018,4099-4102
 C 4019,4020,4065,4066
 C 4021,4024,4074,4078
 C 4022,4023,4025,4032
 C 4026,4031,4034,4071

CCSRCH101J50
 CCSRCH331J50
 CEHAZL101M25
 CKSRYB103K50
 CEHAZL100M50

C 4027,4028,4035,4038
 C 4029,4030,4136,4137
 C 4033,4047,4072,4073
 C 4039,4124,4207
 C 4040,4042,4043,4045

CKSRYB104K16
 CCSRCH330J50
 CKSRYB103K50
 CEHAZL221M10
 CKSRYB104K16

C 4041,4044,4119,4121
 C 4046,4048,4120,4125
 C 4053,4054
 C 4059,4060
 C 4063,4064

CEHAZL101M10
 CKSRYB104K16
 CCSRCH181J50
 CCSRCH471J50
 CQMA223J50

C 4067,4068
 C 4069,4070

CEHAZL471M16
 CQMA124J50

Mark No. Description**Part No.**

C 4075,4077,4092,4093
 C 4076,4113,4116,4128
 C 4079,4082

CKSRYB103K50
 CEHAZL100M50
 CQMA333J50

C 4080,4081
 C 4083,4085,4087,4089
 C 4091,4094,4096,4098
 C 4095,4097,4107,4108
 C 4103-4106,4109,4110

CQMA222J50
 CCH1559
 CEHAZL101M25
 CKSRYB103K50
 CFTNA334J50

C 4111,4112,4182-4185
 C 4114,4115,4127,4132
 C 4122,4123,4205,4206
 C 4126,4129-4131,4134
 C 4133,4202,4204,4216

CCSRCH101J50
 CKSRYB103K50
 CKSRYB272K50
 CKSRYB104K16
 CEHAZL101M10

C 4135,4142-4145,4203
 C 4138,4141,4158,4161
 C 4139,4140,4159,4160
 C 4146-4149
 C 4155

CKSRYB104K16
 CEHAZL100M50
 CKSRYB103K50
 CCSRCH221J50
 CFTLA103J50

C 4162,4163,4175,4176
 C 4164,4165,4196,4199
 C 4166,4168,4170,4172
 C 4174,4177,4179,4181
 C 4178,4180,4190,4191

CKSRYB103K50
 CEHAZL100M50
 CCH1559
 CEHAZL101M25
 CKSRYB103K50

C 4186-4189,4192,4193
 C 4194,4195
 C 4197,4198,4210,4215
 C 4200,4201,4319,4320
 C 4208,4209,4212-4214

CFTNA334J50
 CCSRCH101J50
 CKSRYB103K50
 CCH1354
 CKSRYB104K16

C 4211,4221,4224
 C 4217,4218,4225-4231
 C 4219,4220
 C 4222,4223,4232
 C 4233,4291-4297

CEHAZL100M50
 CKSRYB104K16
 CCSRCH330J50
 CKSRYB103K50
 CKSRYB104K16

C 4234,4298,4299
 C 4235-4238
 C 4239-4242
 C 4243-4250
 C 4251-4254,4263-4266

CEHAZL101M10
 CCSQCH332J50
 CCSRCH122J50
 CCSRCH121J50
 CKSRYB103K50

C 4256,4258,4260,4262
 C 4267-4274
 C 4275-4278
 C 4287-4290
 C 4300,4305,4306

CCH1559
 CCSRCH151J50
 CEHAZL470M25
 CQMA103J50
 CEHAZL101M25

C 4301-4303,4310
 C 4308,4309
 C 4311-4316
 C 4317,4318
 C 4321-4324

CKSRYB104K16
 CKSRYB103K50
 CEHAZL100M50
 CCH1559
 CQMA682J50

B AUD2 ASSY**SEMICONDUCTORS**

IC 5001-5003,5024-5029
 IC 5004
 IC 5005-5007,5016-5018
 IC 5008,5009,5021
 ⚠ IC 5010,5011,5041,5056

TC7SH08FUS1
 AK4393VF
 TC7SET08FUS1
 NJM4580MD
 LTC1590CS

IC 5012,5013,5042,5057
 IC 5014,5015

OPA2134UA
 NJM2114D

Mark No. Description

Part No.

Mark No. Description

Part No.

A
 IC 5019 AK4382AVT
 IC 5020,5048 NE5532AD
 IC 5023,5039,5040,5043 TC7SET08FUS1
 △ IC 5030 TA78L12F
 △ IC 5031 BA033FP
 IC 5032-5035,5037,5047 NJM4580MD
 △ IC 5036,5051,5065,5066 LM4040EIM3-2.5
 △ IC 5038,5053 CS5361-KS

R 5208-5211,5280,5281 RN1/16SE1502D
 R 5226-5229,5306-5309 RN1/16SE2401D
 R 5234-5237,5271,5272 RN1/16SE3301D
 R 5238,5239,5318,5319 RN1/16SE3002D
 R 5240,5243,5244,5247 RN1/16SE1201D
 R 5241,5242,5245,5246 RN1/16SE3601D

IC 5044-5046,5059-5061 TC7SH08FUS1
 IC 5049,5050,5052 NJM4580MD
 IC 5054,5055,5058,5062 TC7SET08FUS1
 IC 5063 TC7SET08FUS1
 IC 5064 TC7SH08FUS1

R 5249,5250,5329,5330 RN1/16SE2002D
 R 5251,5252,5331,5332 RN1/16SE1303D
 R 5270,5273,5276,5279 RN1/16SE8200D
 R 5277,5278,5298-5305 RN1/16SE3301D
 R 5284,5285 RSK1/16S510J

B
 Q 5002,5016,5017 DTC124EUA
 Q 5003,5005 2SA1576A
 Q 5004,5006-5013 2SC3326
 Q 5014,5015 2SC2412K
 Q 5018 2SC4081

R 5288,5289 RSK1/16S273J
 R 5290,5291 RSK1/16S222J
 R 5314-5317 RN1/16SE3301D
 R 5320,5323,5324,5327 RN1/16SE1201D
 R 5321,5322,5325,5326 RN1/16SE3601D

Q 5019-5022 2SK371D1
 Q 5023-5025 DTC124EUA
 D 5001-5012,5014,5015 1SS355
 D 5013,5020 UDZS5R6(B)
 D 5016-5019,5023-5026 RB706D-40
 D 5021,5022,5027,5028 1SS355

CAPACITORS

C 5001-5003,5006 CKSRYB104K16
 C 5004,5031,5033,5035 CKSRYB103K50
 C 5005,5047,5048,5057 CEHAZL100M50
 C 5007,5226,5325 CEHAZL221M10
 C 5008-5010,5012,5017 CKSRYB104K16

MISCELLANEOUS

L 5005-5008 FERRITE CORE VTF1093
 JA 5001,5002 CANON CONNECTOR DKB1077
 JA 5003,5012,5014 JACK VKB1133
 JA 5013,5015 JACK RKN1004
 KN 5008,5010 WRAPPING TERMINAL VNF1084
 RY 5001-5004 RELAY VSR1008
 S 5001 SLIDE SWITCH DSH1063
 CN 5004,5005 19P CONNECTOR VKN1775
 CN 5006 CONNECTOR POST S8B-EH

C 5011,5102,5221,5223 CEHAZL101M10
 C 5013-5016 CQMA822J50
 C 5018-5021,5106,5107 CGSRCH152J50
 C 5022-5027,5029,5030 CGSRCH151J50
 C 5028,5049,5050 CKSRYB104K16

RESISTORS

R 5011-5016,5018,5019 RN1/16SE1201D
 R 5020-5023,5032-5036 RN1/16SE1202D
 R 5024-5031,5080,5082 RN1/16SE1101D
 R 5037,5038,5040,5041 RN1/16SE1001D
 R 5039,5042,5045 RN1/16SE1202D

C 5032,5034,5036,5038 CEHAZL101M25
 C 5037,5051,5052,5058 CKSRYB103K50
 C 5040,5042,5044,5046 CCH1354
 C 5053-5056,5238,5239 CGSRCH330J50
 C 5059,5062,5064,5177 CEHAZL100M50

R 5043,5044,5046,5047 RN1/16SE1001D
 R 5049-5052 RN1/16SE1202D
 R 5060-5067 RN1/16SE3901D
 R 5068-5071 RN1/16SE1002D
 R 5072-5075 RN1/16SE9101D

C 5060,5061,5063,5075 CKSRYB103K50
 C 5065-5068,5201-5204 CGSRCH101J50
 C 5069-5074,5078,5079 CGSRCH820J50
 C 5076,5080,5083,5084 CEHAZL101M25
 C 5077,5081,5082,5101 CKSRYB103K50

R 5076-5079 RD1/2VM181J
 R 5081,5083,5085,5087 RN1/16SE4701D
 R 5084,5086 RN1/16SE1101D
 R 5119-5122 RN1/16SE4701D
 R 5123,5124,5129-5131 RN1/16SE3902D

C 5089 CEHANP220M25
 C 5090-5093 CQMA221J50
 C 5094-5097,5169,5174 CFTLA103J50
 C 5098-5100,5103 CKSRYB104K16
 C 5104,5105 CCSQCH332J50

R 5125-5128,5218-5225 RN1/16SE3301D
 R 5132,5133,5135,5136 RN1/16SE2401D
 R 5134,5137,5138 RN1/16SE3902D
 R 5139-5142 RN1/16SE1302D
 R 5145,5146,5153,5154 RN1/16SE2002D

C 5108-5110,5112 CGSRCH560J50
 C 5111,5113,5122,5123 CKSRYB103K50
 C 5115,5117,5128,5129 CCH1559
 C 5119,5121,5124,5125 CGSRCH820J50
 C 5140-5143 CKSRYB221K50

R 5161-5164,5177-5180 RN1/16SE2700D
 R 5169-5172 RN1/16SE4300D
 R 5198-5201,5264,5265 RN1/16SE1001D
 R 5204-5207,5274,5275 RN1/16SE1102D

C 5144-5150,5153,5154 CKSRYB104K16
 C 5151,5152,5159 CEHAS470M16
 C 5155,5160,5161,5163 CKSRYB103K50
 C 5156,5162,5222,5227 CKSRYB104K16
 C 5157,5158,5193,5196 CEHAZL101M25

Mark No.	Description	Part No.
C 5194,5195,5197,5199		CKSRYB103K50
C 5198,5200,5275,5279		CEHAZL101M25
C 5205-5208,5211,5212		CFTNA334J50
C 5209,5210,5216,5217		CKSRYB103K50
C 5213,5214,5300-5303		CCSRCH101J50
C 5218,5230,5240,5243		CEHAZL100M50
C 5219,5220,5318,5319		CCH1354
C 5224,5225,5323,5324		CKSRYB272K50
C 5228,5231-5233,5236		CKSRYB104K16
C 5229,5234,5241,5242		CKSRYB103K50
C 5235,5320,5322,5334		CEHAZL101M10
C 5237,5244-5247,5321		CKSRYB104K16
C 5252,5253		CCSRCH181J50
C 5254,5257		CFTLA103J50
C 5258,5259		CCSRCH471J50
C 5262,5263		CQMA223J50
C 5264,5265		CCSRCH331J50
C 5266,5267		CEHAZL471M16
C 5268,5271		CQMA124J50
C 5272,5277,5314,5317		CEHAZL100M50
C 5273,5274,5276,5278		CKSRYB103K50
C 5280,5283		CQMA333J50
C 5281,5282		CQMA222J50
C 5284,5286,5288,5290		CCH1559
C 5292,5295,5297,5299		CEHAZL101M25
C 5293,5294,5296,5298		CKSRYB103K50
C 5304-5307,5310,5311		CFTNA334J50
C 5308,5309,5315,5316		CKSRYB103K50
C 5312,5313		CCSRCH101J50
C 5326,5327,5330-5332		CKSRYB104K16
C 5328,5333,5340,5341		CKSRYB103K50
C 5329,5339,5342		CEHAZL100M50
C 5335,5336,5343-5347		CKSRYB104K16
C 5337,5338		CCSRCH330J50
C 5348-5351		CEHAZL101M25
C 5352,5354,5355		CKSRYB104K16

C VIO1 ASSY

SEMICONDUCTORS

D 7701-7716 UDZS6R2(B)

MISCELLANEOUS

JA 7701,7703 JACK VKB1123
 JA 7702,7704 SOCKET AKP7050
 JA 7708,7709 COMB.JACK(S+1P) AKB7159
 JA 7710 BNC CONNECTOR DKN1267
 JA 7711 BNC CONNECTOR DKN1268

CN 7705 17P CONNECTOR VKN1248
 CN 7706 34P CONNECTOR VKN2004
 CN 7707 CONNECTOR VKN1200

RESISTORS

R 7741,7742 RS1/16S103J
 Other Resistors RS1/16S####F

CAPACITORS

C 7727,7728,7730,7732 CEAT102M6R3
 C 7729,7731 CKSRYB104K16
 C 7733,7734 CEAT471M6R3

Mark No.	Description	Part No.
C 7735,7736		CEAT102M6R3

D MJCK ASSY

MISCELLANEOUS

L 8701,8702 INDUCTOR CTF1409
 F 8701,8702 FERRITE CORE VTF1093
 JA 8701 CANON CONNECTOR DKB1068
 KN 8702 WRAPPING TERMINAL VNF1084
 CN 8701 CONNECTOR POST S3B-PH-K-S

CAPACITORS

C 8701,8702 CCSRCH221J50
 C 8703,8704 CFTLA103J50
 C 8705-8708 CCSRCH102J50

E VIN3 ASSY

MISCELLANEOUS

JA 8201 JACK VKB1123
 CN 8202 CONNECTOR S6B-PH-K-S

F VIO2 ASSY

SEMICONDUCTORS

D 8001-8008 UDZS6R2(B)

MISCELLANEOUS

JA 8001,8003 JACK VKB1123
 JA 8002,8004 SOCKET AKP7050
 CN 8005 17P CONNECTOR VKN1248

G MAIN ASSY

SEMICONDUCTORS

IC 1001 D610A003BPYPA225
 IC 1003 K4S641632K-UC75
 IC 1006,1007,1074 TC74VHC541FTS1
 IC 1008 AX51902A
 IC 1009,1010,1044-1047 K4S281632K-UC75

IC 1012,1015,1017,1026 TC7SH08FUS1
 ⚠ IC 1013,1076 LTC3406B-2ES5
 ⚠ IC 1016,1019 TPS54380PWP
 IC 1020,1027,1034,1069 TC74LCX541FTS1
 IC 1021,1022 TC7SZU04FU

IC 1023,1031 TC7SHU04FUS1
 IC 1024,1025,1028,1029 TC7SZ08FU
 IC 1030 TC7WH74FU
 IC 1032,1054,1056,1060 TC7SH08FUS1
 IC 1035 TE4300PF

IC 1036 TDOTG242-0F0C8
 IC 1037 R5523N001B
 IC 1038,1039 ADV7172KSTZ
 IC 1040,1041 LA73054
 IC 1043 TMS320DM642AZNZ6

⚠ IC 1048,1049,1052,1053 ADV7180BSTZ
 IC 1050,1051 TC7W53FU
 IC 1055 XC3S50-4TQG144C

Mark No.	Description	Part No.	Mark No.	Description	Part No.
C 1010-1024,1026		CKSRYB104K16	C 1369,1370,1419,1420		CKSRYB823K25
C 1028-1061,1064,1067		CKSRYB104K16	C 1373,1374,1378,1381		CKSRYB105K10
C 1063,1065,1066,1102		CKSRYB105K10	C 1375,1376,1409,1410		CEHVKW470M6R3
C 1068,1072,1073,1096		CKSRYB104K16	C 1379,1380,1382-1396		CKSRYB104K16
C 1077,1149,1169,1210		CEHVKW101M6R3	C 1404-1407,1413-1416		CKSRYB105K10
C 1079,1131,1136,1689		BCG1059	C 1418,1421,1423,1678		CKSRYB103K50
C 1080,1082,1084,1086		CKSSYB104K10	C 1422,1424,1427,1430		CKSRYB105K10
C 1081,1083,1085,1087		CKSSYB103K16	C 1425,1426,1447,1454		CEHVKW470M6R3
C 1088,1090,1092,1094		CKSSYB104K10	C 1428,1431-1444		CKSRYB104K16
C 1089,1091,1093,1095		CKSSYB103K16	C 1448-1453,1455-1458		CKSRYB104K16
C 1097,1100,1114,1151		CKSQYB106K6R3	C 1459,1485,1503,1507		CEHVKW470M6R3
C 1101,1103,1104,1108		CKSRYB104K16	C 1460-1464,1466-1475		CKSRYB104K16
C 1105,1109,1116,1119		CKSRYB105K10	C 1476,1478,1482-1484		CKSRYB105K10
C 1110,1111,1115,1117		CKSRYB104K16	C 1479-1481,1486		CKSRYB104K16
C 1118,1122,1124,1125		CKSRYB104K16	C 1488,1490,1537,1538		CKSRYB105K10
C 1123,1152,1171,1173		CKSRYB105K10	C 1489,1495,1497,1498		CKSSYB104K10
C 1135,1142,1145,1146		CKSRYB104K16	C 1491-1494,1532-1534		CKSRYB104K16
C 1138,1160		CKSRYB332K50	C 1500-1502,1504,1505		CKSSYB104K10
C 1140,1147,1161,1705		ACH7195	C 1508-1514,1517-1524		CKSSYB104K10
C 1141,1162,1649-1655		CKSRYB471K50	C 1529,1531,1604-1619		CKSSYB104K10
C 1143,1163		CKSRYB822K50	C 1530,1539,1563,1647		CKSQYB106K6R3
C 1144,1164		CKSRYB472K50	C 1540,1542,1543,1546		CKSRYB104K16
C 1150,1158,1165-1167		CKSRYB104K16	C 1541,1544,1545,1548		CKSRYB105K10
C 1170,1207,1211,1218		CKSQYB106K6R3	C 1547,1551,1553-1562		CKSRYB104K16
C 1174,1189		CCSRCH5R0D50	C 1549,1656,1755		CEHVKW100M16
C 1175,1188		CCSRCH7R0D50	C 1550,1552,1594		CKSRYB105K10
C 1176,1181,1187		CKSRYB105K10	C 1564,1568,1620,1685		CEHVKW470M6R3
C 1182,1191		CCSRCH120J50	C 1565-1567,1569-1593		CKSRYB104K16
C 1190		CCSRCH102J50	C 1598,1601-1603,1648		CKSRYB104K16
C 1192-1197,1201,1202		CKSRYB105K10	C 1621-1646		CKSSYB104K10
C 1198		CCSRCH180J50	C 1658-1677,1679,1680		CKSRYB104K16
C 1199,1204,1206,1224		CKSRYB104K16	C 1686,1726,1727,1758		CKSRYB104K16
C 1200		CCSRCH150J50	C 1687,1770,1771		CEHVKW470M6R3
C 1205,1208,1209		CKSRYB105K10	C 1688,1725,1789,1790		CKSQYB106K6R3
C 1212-1217,1219		CKSRYB105K10	C 1693,1707,1769		CCSRCH220J50
C 1221-1223,1226-1229		CKSRYB105K10	C 1695,1700,1701		BCG1059
C 1225		CKSRYB102K50	C 1703		CCSRCH471J50
C 1230		CKSQYB225K10	C 1704		CCSRCH101J50
C 1231,1240,1759		CEHVKW101M6R3	C 1706		BCG1050
C 1241,1242,1283-1286		CEHVKW470M6R3	C 1761		CKSRYB471K50
C 1243-1246,1249-1282		CKSRYB104K16	C 1772,1773,1779-1784		CKSRYB104K16
C 1247,1248,1296,1367		CKSRYB103K50	C 1785		CKSRYB103K50
C 1287-1294,1301,1304		CKSRYB105K10	C 1786		CKSSYB103K16
C 1297,1298,1361,1362		CEHVKW470M6R3	C 1791-1799		CKSRYB104K16
C 1299,1308,1315,1324		CKSQYB106K6R3			
C 1300,1302,1303,1306		CKSRYB104K16			
C 1305,1310,1313,1314		CKSRYB105K10			
C 1307,1309,1311,1312		CKSRYB104K16			
C 1316,1318,1329,1332		CKSRYB105K10			
C 1319,1320,1327,1330		CKSRYB104K16			
C 1321-1323,1326,1328		CKSSYB104K10			
C 1325,1347,1506,1528		CKSQYB106K6R3			
C 1331,1338,1339,1349		CKSRYB104K16			
C 1333,1350,1353,1354		CKSRYB105K10			
C 1334-1337,1477,1487		CKSSYB104K10			
C 1341,1343,1345,1348		CKSSYB103K16			
C 1351,1352,1355,1356		CKSRYB104K16			
C 1357-1360,1363-1366		CKSRYB105K10			
C 1368,1371,1372,1417		CKSRYB103K50			

H SCPU ASSY

SEMICONDUCTORS

IC 3001,3004-3009,3011	TC7SH08FUS1
IC 3002,3003	TC74VHC541FTS1
IC 3010	DYW1766
IC 3012-3014,3017	TC74HC4052AFT
△ IC 3015	BA033FP
IC 3016	NJM2903M
IC 3018,3019	TC74HC238AF
IC 3020-3023	TC74HC273AF
Q 3001-3003,3005-3007	DTC143EUA
Q 3004,3008	2SB1188

Mark No. Description

Part No.

Mark No. Description

Part No.

Q 3009-3011 DTC143EUA
 Q 3012,3013 DTC124EUA
 D 3001-3003 1SS355
 D 3008,3009 RB060L-40

D 6861-6864 UW3804(ABCDEF)

MISCELLANEOUS

VR 6801 VARIABLE RESISTOR DCS1100
 VR 6802,6807,6816 ROTARY VR DCS1086
 VR 6803-6806 VARIABLE RESISTOR DCS1100
 VR 6808-6810 VARIABLE RESISTOR DCS1100
 VR 6811,6812 ROTARY VR DCS1072

MISCELLANEOUS

X 3001 CERAMIC RESONATOR(20MHz) VSS1186
 CN 3001 CONNECTOR 40PIN DKN1481
 CN 3002 CONNECTOR CKS5075
 CN 3004 6P JUMPER CONNECTOR 52147-0610
 CN 3005 CONNECTOR POST S8B-EH

VR 6813-6815 VARIABLE RESISTOR DCS1100
 S 6801 LEVER SWITCH DSK1033
 S 6802 SLIDE SWITCH DSH1057
 S 6803,6807,6808 TACT SWITCH DSG1079
 S 6804,6805 SLIDE SWITCH DSH1058

CN 3006 CONNECTOR 30PIN DKN1480
 CN 3007,3011 CONNECTOR 36P 52492-3620
 CN 3008,3010 24P CONNECTOR VKN1428
 CN 3009 CONNECTOR POST S3B-PH-K-S
 CN 3012 CONNECTOR 24P 52492-2420

S 6806,6814 LEVER SWITCH DSK1026
 S 6809 ROTARY SW DSG1110
 S 6810-6812 TACT SWITCH DSG1079
 S 6813 ROTARY SW DSG1109
 CN 6801 CONNECTOR 28P 52492-2820

CN 3013 CONNECTOR 28P 52492-2820
 CN 3014 CONNECTOR VKN1945

CN 6802 CONNECTOR 36P 52492-3620
 CN 6803,6804 CONNECTOR 5P 52492-0520

RESISTORS

R 3056,3057 RAB4C101J
 R 3118 RS1/10SOR0J
 Other Resistors RS1/16S###J

RESISTORS

All Resistors RS1/16S###J

CAPACITORS

C 3001-3009,3018-3021 CKSRYB104K16
 C 3017,3024,3027,3039 CEHAR101M10
 C 3022 CKSRYB105K10
 C 3023,3026,3028,3037 CKSRYB104K16
 C 3025,3040,3057,3060 CKSRYB103K50

CAPACITORS

C 6801,6803,6804,6808 CEAL101M10
 C 6802,6805-6807 CKSRYB104K16
 C 6809-6832 CKSRYB104K16

C 3029-3036 CCSRCH471J50
 C 3038,3042-3045 CKSRYB104K16
 C 3041 CEHAR330M25
 C 3046,3050,3053,3061 CEHAR101M10
 C 3047-3049,3051,3052 CKSRYB104K16

J CTL2A ASSY

SEMICONDUCTORS

Q 7101-7104,7109 DTC143EUA
 Q 7105-7108,7110 2SB1188
 Q 7111-7131 DTC143EUA
 D 7101-7106,7138,7139 1SS355
 D 7107-7121,7165-7168 UW3804(ABCDEF)

C 3054-3056,3058,3059 CKSRYB104K16
 C 3062-3064,3066,3068 CKSRYB104K16
 C 3065,3067 CKSRYB103K50
 C 3069,3072,3073,3077 CKSRYB104K16
 C 3070,3071,3074-3076 CEHAR101M10

D 7122-7137,7140-7147 SLR343BC4T(JKLM)
 D 7148,7149,7158,7159 1SS355
 D 7150-7157,7160-7163 SLR343BC4T(JKLM)
 D 7164,7169,7174,7175 1SS355
 D 7170-7173,7176-7179 UW3804(ABCDEF)

C 3078 CKSRYB104K16

D 7180,7185 1SS355
 D 7181-7184 UW3804(ABCDEF)
 D 7186-7193 SLI-343URCW(RST)

I CTL1 ASSY

SEMICONDUCTORS

Q 6801-6803,6807-6809 DTC143EUA
 Q 6804-6806,6810 2SB1188
 Q 6811-6832 DTC143EUA
 D 6801-6804,6818-6821 1SS355
 D 6805-6808 SLI-343YYW(RST)

MISCELLANEOUS

VR 7101 VARIABLE RESISTOR DCS1100
 VR 7102,7107,7112,7114 ROTARY VR DCS1086
 VR 7103-7106 VARIABLE RESISTOR DCS1100
 VR 7108-7111 VARIABLE RESISTOR DCS1100
 VR 7113 VARIABLE RESISTOR DCS1100

D 6809,6866-6869 SLI-343URCW(RST)
 D 6810-6817,6822,6825 UW3804(ABCDEF)
 D 6823,6824,6826-6828 1SS355
 D 6829,6830,6832,6833 SLR343BC4T(JKLM)
 D 6831,6834,6837,6840 1SS355

S 7101 LEVER SWITCH DSK1026
 S 7102 LEVER SWITCH DSK1033
 S 7103,7106,7109 SLIDE SWITCH DSH1058
 S 7104,7107,7110 TACT SWITCH DSG1079
 S 7105 ROTARY SW DSG1109

D 6835,6836,6838,6839 SLR343BC4T(JKLM)
 D 6841-6846,6850-6853 SLR343BC4T(JKLM)
 D 6847-6849,6854,6857 1SS355
 D 6855,6856,6858,6859 UW3804(ABCDEF)
 D 6860,6865,6870 1SS355

S 7108 ROTARY SW DSG1110
 S 7111 SLIDE SWITCH DSH1066
 CN 7101 CONNECTOR 36P 52492-3620

Mark No.	Description	Part No.
CN 7102	CONNECTOR 24P	52492-2420
CN 7103,7104	CONNECTOR 5P	52492-0520
CN 7105	CONNECTOR 6P	52492-0620

RESISTORS

R 7105-7108,7114	Other Resistors	RS1/16S3900D
		RS1/16S###J

CAPACITORS

C 7101,7103,7105,7108	CEAL101M10
C 7102,7104,7106,7107	CKSRYB104K16
C 7109-7131	CKSRYB104K16

K CTL2B ASSY**SEMICONDUCTORS**

Q 8351	DTC143EUA
D 8351,8352	1SS355
D 8353	TLGE68DG

MISCELLANEOUS

S 8351 SLIDE SWITCH	DSH1058
CN 8351 CONNECTOR 6P	52492-0620

RESISTORS

All Resistors	RS1/16S###J
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L CFD1 ASSY**MISCELLANEOUS**

VR 8801 VARIABLE RESISTOR	DCV1020
CN 8801 CONNECTOR 5P	52492-0520

M CFD2 ASSY**MISCELLANEOUS**

VR 8851 VARIABLE RESISTOR	DCV1020
CN 8851 CONNECTOR 5P	52492-0520

N CFD3 ASSY**MISCELLANEOUS**

VR 8901 VARIABLE RESISTOR	DCV1020
CN 8901 CONNECTOR 5P	52492-0520

O CFD4 ASSY**MISCELLANEOUS**

VR 8951 VARIABLE RESISTOR	DCV1020
CN 8951 CONNECTOR 5P	52492-0520

P INVT ASSY**SEMICONDUCTORS**

△ IC 6001	TA78L05F
△ IC 6002	OZ9641SN

Mark No.	Description	Part No.
Q 6001		DTC123EU
△ Q 6002		2SA1615-ZS1
△ Q 6003-6006		TS8M1
Q 6007,6008		2SC4617
Q 6009		2SA1774
Q 6010		UM6K1N
Q 6011-6014,6016,6018		DTC124EUA
Q 6015,6017,6019,6021		DTA124EUA

Q 6020,6022	DTC124EUA
D 6001,6002	HZU6R2(B3)
D 6003	UDZS6R2(B)
D 6004-6006,6011-6031	1SS355
D 6007-6010	MC2850-11

MISCELLANEOUS

L 6001 CHOKE COIL	CTH1349
VR 6001 SEMIFIXED-RESISTOR	CCP1443
△ T 6001,6002 TRANSFORMER	CTT1136
CN 6001 22P CONNECTOR	VKN1282
CN 6002,6003 24P CONNECTOR	VKN1814
CN 6004 11P CONNECTOR	VKN1303
CN 6005 6PJUMPER CONNECTOR	52151-0610
CN 6006 CONNECTOR	CKS3192
CN 6007 CONNECTOR	CKS4428
CN 6008,6009 04P CONNECTOR	9610S-04B

RESISTORS

R 6004,6005,6007,6008	RS1/4S221J
R 6024	RN1/16SE1102D
R 6034-6037	RS1/4S221J
Other Resistors	RS1/16S###J

CAPACITORS

C 6001,6003,6017	CEHAR101M10
C 6002,6004,6020,6023	CKSRYB104K16
C 6005,6006,6008-6011	CCG1223
C 6007	CEHAT101M25
C 6012,6019,6030	CKSRYB103K50
C 6013,6014	CCG1223
C 6015,6022	CKSRYB105K10
C 6016	CKSRYB183K50
C 6018	CKSRYB474K10
C 6021	CKSRYB334K10

△ C 6026,6028	CCG1194
C 6027,6029	CKSRYB273K25
C 6031,6032	CKSRYB473K50
C 6033	CCSRCH102J50
C 6034-6041	CKSRYB102K50
C 6042-6050	CKSRYB104K16

Q CTL3R ASSY**SEMICONDUCTORS**

D 8501,8502	UW3804(ABCDEF)
D 8503	1SS355
D 8504,8505	SLR343BC4T(JKLM)
D 8506,8507	SLI-343YYW(RST)

MISCELLANEOUS

VR 8501 VARIABLE RESISTOR	ACS7026
S 8501-8503 TACT SWITCH	DSG1079
S 8504,8505 ROTARY ENCODER	DSX1073

Mark No. Description

S 8506 ROTARY ENCODER
CN 8501 22P CONNECTOR

Part No.

DSX1069
VKN1282

RESISTORS

All Resistors

RS1/16S###J

CAPACITORS

C 8501-8508
C 8509

CKSRYB103K50
CKSRYB104K16

R CTL3LB ASSY**SEMICONDUCTORS**

D 8451,8453
D 8452,8455,8456
D 8454

SLR343BC4T(JKLM)
1SS355
SLI-343URCW(RST)

MISCELLANEOUS

S 8451-8453 TACT SWITCH
CN 8451 11P CONNECTOR
CN 8452 CONNECTOR 6P

DSG1079
VKN1271
52492-0620

RESISTORS

All Resistors

RS1/16S###J

S CTL3LA ASSY**SEMICONDUCTORS**

D 8401,8404
D 8402,8403

1SS355
SLI-343URCW(RST)

MISCELLANEOUS

S 8401,8402 TACT SWITCH
CN 8401 CONNECTOR 6P

DSG1079
52492-0620

RESISTORS

All Resistors

RS1/16S###J

T CRFD ASSY**MISCELLANEOUS**

VR 8751 VARIABLE RESISTOR
CN 8751 CONNECTOR POST

DCV1006
S3B-PH-K-S

U DIO2 ASSY**SEMICONDUCTORS**

D 8251-8254

UDZS6R2(B)

MISCELLANEOUS

JA 8251 1P PIN JACK
JA 8252,8253 BNC CONNECTOR
CN 8251 5P CONNECTOR

PKB1036
DKN1267
VKN1374

RESISTORS

All Resistors

RS1/16S###F

CAPACITORS

C 8251
C 8253

CCSRCH221J50
CKSRYB103K50

Mark No. Description**V DIO1 ASSY****SEMICONDUCTORS**

IC 6501,6502
IC 6503,6504
IC 6505,6506,6517
IC 6507-6510,6518,6519
IC 6511,6512

TC7WU04FU
AK4117VF
AD1895AYRS
TC7SH08FUS1
NJM2561F1

IC 6514
IC 6515
IC 6516
Q 6502,6503
D 6501-6504

TC74HCU04AF
TC7SET08FUS1
AK4114VQ
2SC4081
UDZS6R2(B)

MISCELLANEOUS

L 6501 FERRITE CORE
JA 6501,6502 BNC CONNECTOR
JA 6503,6504 1P PIN JACK
KN 6501 SCREW PLATE
S 6501 SLIDE SWITCH

T 6501 COIL
CN 6501 CONNECTOR 30PIN
CN 6502 5P CONNECTOR
CN 6503 4P JUMPER CONNECTOR

VTF1093
DKN1267
PKB1036
VNE1948
DSH1025

PTL1003
DKN1480
VKN1374
52147-0410

RESISTORS

R 6501,6525,6526,6559
R 6547
R 6553-6556
Other Resistors

RS1/16S75R0F
RN1/16SE1802D
RS1/10S0R0J
RS1/16S###J

CAPACITORS

C 6502
C 6503,6510,6511
C 6504,6505
C 6506,6507
C 6508,6509,6513,6514

CCSRCH221J50
CKSRYB103K50
CCSRCH470J50
CCSRCH220J50
CKSRYB104K16

C 6512,6515,6525,6527
C 6516,6517,6522-6524
C 6518-6521,6566,6572
C 6526,6529-6532,6534
C 6533,6535,6543

CEAT100M50
CKSRYB104K16
CKSRYB103K50
CKSRYB104K16
CEAT470M16

C 6536,6542,6547,6549
C 6537,6539,6546,6548
C 6538,6540
C 6544,6545
C 6550

CKSRYB104K16
CEAT101M16
CEAT330M16
CEAL4R7M16
CEAT101M16

C 6552-6554,6557,6559
C 6560,6563,6569
C 6561
C 6562,6564,6565,6567
C 6568,6570,6571

CKSRYB104K16
CEAT100M50
CKSRYB474K10
CKSRYB104K16
CKSRYB104K16

W MIDI ASSY**SEMICONDUCTORS**

IC 9201
Q 9201
D 9201
D 9202,9203

TC7S00FU
DTC124EUA
NNCD6.2MF
1SS355

Mark No. Description**MISCELLANEOUS**

J 0 JUMPER WIRE
JA 9201 CONNECTOR
0 SHIELD CASE(MIDI)
JH 9201 4P CABLE HOLDER

RESISTORS

R 9201,9202
Other Resistors

CAPACITORS

C 9201
C 9202,9206
C 9205

X SDIO ASSY**SEMICONDUCTORS**

D 8302-8309

MISCELLANEOUS

JA 8301 SDCARD SLOTCONNECTOR
CN 8301 13P CONNECTOR

RESISTORS

All Resistors

CAPACITORS

C 8301,8304
C 8305

Y USB1 ASSY**SEMICONDUCTORS**

D 8553
D 8554

MISCELLANEOUS

JA 8551 USB CONNECTOR
CN 8551 CONNECTOR

RESISTORS

All Resistors

MISCELLANEOUS

JH 8551 PCB BINDER

CAPACITORS

C 8551
C 8552
C 8553,8554
C 8555

Z USB2 ASSY**SEMICONDUCTORS**

D 8601
D 8602

MISCELLANEOUS

JA 8601 USB CONNECTOR
KN 8601 WRAPPING TERMINAL

Part No.

D20PYY0405E
DKN1188
DNH2736
51048-0400

RS1/10S0R0J
RD1/2VM###J

CKSRYB103K50
CKSRYB104K16
CEAT100M50

DAN217

DKP3748
VKN1305

RS1/16S###J

CKSRYB104K16
CEHAR101M10

UDZS5R6(B)
NNCD6.2MF

DKN1237
AKM1276

RS1/16S###J

VEF1040

CEJQ101M10
CKSRYB104K16
CCSRCH470J50
CFLA103J50

UDZS5R6(B)
NNCD6.2MF

VKB1226
VNF1084

Mark No. Description

CN 8601 CONNECTOR

RESISTORS

All Resistors

CAPACITORS

C 8601
C 8602
C 8603,8604
C 8605

AA HAMP ASSY**SEMICONDUCTORS**

IC 7404
⚠ IC 7405
IC 7406
IC 7407
Q 7401,7403

Q 7402,7404
Q 7405
D 7401-7411

MISCELLANEOUS

RY 7401 RELAY
CN 7401 CONNECTOR
CN 7403 CONNECTOR
CN 7404 CONNECTOR POST

RESISTORS

R 7408-7411
R 7412,7413,7418-7421
R 7414-7417
R 7422,7423,7426,7427
R 7424,7425

R 7436,7438
R 7437,7439
R 7440-7443
R 7444-7447
R 7453,7454

Other Resistors

CAPACITORS

C 7404,7405,7410,7411
C 7406,7413,7414
C 7407,7408,7415
C 7409,7412
C 7416,7417

C 7418,7419
C 7420-7422,7424
C 7423,7425,7437
C 7428,7429
C 7430,7431

C 7433,7435
C 7436,7440,7441
C 7438,7439

AB HJCK ASSY**MISCELLANEOUS**

F 8651-8653 FERRITE CORE

Part No.

AKM1290

RS1/16S###J

CEJQ101M10
CKSRYB104K16
CCSRCH470J50
CFLA103J50

AK4382AVT
TA78L12F
NE5532AD
NJM2068M
2SD1859X

2SB1238X
2SC2412K
1SS355

VSR1008
CKS4999
B4B-PH-K-S
B2B-PH-K-S

RN1/16SE4701D
RN1/16SE1302D
RN1/16SE3301D
RN1/16SE2701D
RN1/16SE1302D

RN1/16SE1202D
RN1/16SE2201D
RD1/2VM122J
RS2LMF270J
RD1/2VM221J

RS1/16S###J

CKSRYB103K50
CKSRYB104K16
CEHAZL101M25
CEHAZL101M10
CQMA332J50

CCSRCH122J50
CCSRCH121J50
CKSRYB103K50
CCH1559
CEAT220M50

CCSRCH471J50
CEAT221M25
CCSRCH220J50

VTF1093

Mark No. Description

JA 8651 HEADPHONE JACK
CN 8651 CONNECTOR

Part No.

DKN1281
B4B-PH-K-S

Mark No. Description**CAPACITORS**

C 9501-9506

Part No.

CKSRYB104K25

CAPACITORS

C 8651,8652

CKSRYB104K16

AF ILMR ASSY**SEMICONDUCTORS**

Q 9001,9002

D 9001,9002

D 9003-9008

2SC4081

HZU2R0(B)

NESB017-7404

MISCELLANEOUS

CN 9001,9002 2P TOP POST

B2B-EH

RESISTORS

R 9001,9003

Other Resistors

RS1/16S2401F

RS1/16S###J

CAPACITORS

C 9001,9002

CKSRYB103K50

AG ILM L ASSY**SEMICONDUCTORS**

Q 9051,9052

D 9051,9052

D 9053-9058

2SC4081

HZU2R0(B)

NESB017-7404

MISCELLANEOUS

CN 9051 2P TOP POST

B2B-EH

RESISTORS

R 9051,9053

Other Resistors

RS1/16S2401F

RS1/16S###J

CAPACITORS

C 9051,9052

CKSRYB103K50

COVER PCB**MISCELLANEOUS**

0 COVER PCB

DWX2793

POWER SUPPLY UNIT

Power Supply assembly has no service part.

AC ACSW ASSY**MISCELLANEOUS**

△ S 9101 SWITCH

△ CN 9101 CONNECTOR2P

△ 9101 CONNECTOR ASS'Y

DSA1033

2-178496-4

DKP3799

CAPACITORS

△ C 9101

ACG7033

AD PDIV ASSY**MISCELLANEOUS**

KN 9151 WRAPPING TERMINAL

CN 9151 CONNECTOR POST

CN 9152 CONNECTOR

CN 9153 CONNECTOR

CN 9154 5P TOP POST

VNF1084

B5B-PH-K-S

B15B-PH-K-S

B7B-EH

B5B-EH

CN 9155 CONNECTOR

CN 9156 8P TOP POST

CN 9157 2P TOP POST

B9B-PH-K-S

B8B-EH

B2B-EH

RESISTORS

All Resistors

RS1/10S###J

MISCELLANEOUS

JH 9151 9P CABLE HOLDER

△ P 9153,9194 PROTECTOR(200MA)

△ P 9157 PROTECTOR(1.25A)

△ P 9191-9193,9199 PROTECTOR(630MA)

△ P 9195 PROTECTOR(1.6A)

51048-0900

AEK7023

AEK7010

AEK7006

AEK7012

△ P 9196 PROTECTOR(2A)

△ P 9197 PROTECTOR(2.5A)

△ P 9198 PROTECTOR(800MA)

AEK7013

AEK7014

AEK7008

CAPACITORS

C 9151

C 9152

C 9153,9154,9162,9166

C 9161

C 9165,9168,9170

CEHAT471M25

CEHAT471M10

CKSRYB104K25

CEHAT221M10

CEHAT101M25

C 9167,9169

CKSRYB104K25

AE REG ASSY**SEMICONDUCTORS**

△ IC 9501

△ IC 9502

△ IC 9503

D 9501,9502

NJM7815FA

NJM79M15FA

NJM78M05FA

RB501V-40

MISCELLANEOUS

J 0 JUMPER WIRE

JH 9501 9P CABLE HOLDER

D20PYY0910E

51048-0900