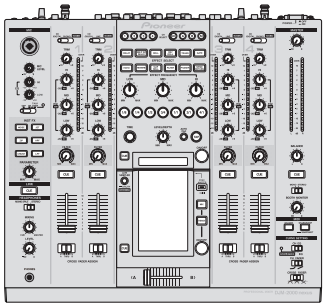
Pioneer

Service Manual



DJM-2000NXS

ORDER NO.
RRV4391

DJ MIXER

DJM-2000NXS

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

Model	Type	Power Requirement	Remarks
DJM-2000NXS	CUXJ	AC 120 V	
DJM-2000NXS	SYXJ8	AC 220 to 240 V	
DJM-2000NXS	LXJ	AC 110 V to 240 V	
DJM-2000NXS	KXJ5	AC 220 V	
DJM-2000NXS	XJCN5	AC 220 to 240 V	

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K-MZV NOV. 2012 Printed in Japan

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 may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

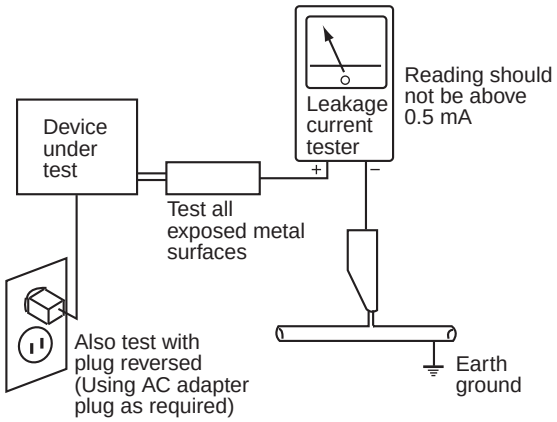
(FOR USA MODEL ONLY)

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 120 V 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.

CONTENTS

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 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC 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.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

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.

1.2 NOTES ON REPLACING PARTS

The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

Assy Name	PCB Assy Part No.	Parts that is Diffcult to Replace			
		Ref No.	Function	Part No.	Remarks
MAIN Assy	DWX3424	IC1601	Main control, LCD and Touch panel control	R5S77641N300BG	BGA
		IC1201	for RAM, clock divider	XC3S50A-4FTG256C	BGA
		IC1001	13V → 3.3V regulator	NJM2846DL3-33	IC with heat-pad

1.3 SERVICE NOTICE

Voltage monitoring

This unit always monitors for power failure and will shut itself off immediately after an error is detected.
A power failure is indicated with flashing of the UTILITY LED (Intervals: 250 ms [Lit 125 ms/Unlit 125 ms]).
All the LEDs other than UTILITY will be unlit and all the switches and variable registers will be disabled.
Repair the unit according to the diagnostic procedures described in “5.3 VOLTAGE MONITORING CIRCUIT.”

Confirmation of user-setting data

This product has user- and club-setting data. Be sure to confirm those data before starting repair, although changing them may not have a large effect. Use the Check Sheet in “8.6 SHEET FOR CONFIRMATION OF THE USER SETTING” to which you can transcribe the settings, as required. The settings are stored in Flash ROM (IC1703) on the MAIN Assy.
To display the [USER SETUP] screen, hold [LIVE SAMPLER (UTILITY, WAKE UP)] pressed for at least 1 sec.
To display the [CLUB SETUP] screen, press [POWER] while holding [LIVE SAMPLER (UTILITY, WAKE UP)] pressed.

On the EEPROM on the PCIF Assy

No program has been stored in the EEPROM (IC2003) on the PCIF Assy (empty ROM) when it is supplied as a part for service. After the Assy is replaced, be sure to update the firmware. When updating, note that the procedures are different from those for the usual firmware updating. For details, see “8.2.”
The program to be stored in this IC is that for USB control. However, depending on the versions of the firmware programs, no program for USB control may be included. Therefore, first load the first edition of the firmware program then update it to the latest version.

Notes on replacement of the touch panel

Perform calibration after the touch panel or MAIN Assy is replaced. The calibration procedures are described in “Touch Panel Test” in “6. SERVICE MODE.”
Be careful not trap dirt inside or put fingerprints on the display while reassembling, and check that there is no trapped dirt or fingerprints after reassembling.

Notes for the handling of the touch panel

(1) Transparency is an important factor for the touch panel. So, please wear clean finger sacks, gloves and mask to protect the touch panel from fingerprint or stain attach, and also hold the portion outside the view area when handling the touch panel.
(2) Do not handle the touch panel by holding the flexible pattern portion in order to assure the reliability.
(3) Do not put one touch panel on the other. Otherwise, it may cause the touch panel to be scratched and/or change on cosmetic occur (e.g. Newton ring).
(4) Do not put a heavy, hard or sharp object on the touch panel.

Notes on replacement of the FLASH ROM on the MAIN Assy

Never replace the FLASH ROM (IC1703) on the MAIN Assy during servicing.
If the FLASH ROM is assumed to be defective, replace the whole MAIN Assy.
This FLASH ROM contains data that can only be written in at the factory.
An IEEE 802.3-based MAC address specific to this unit has been written.

2. SPECIFICATIONS

General

Power requirements..... AC 120 V, 60 Hz (CUXJ)
AC 220 V to 240 V, 50 Hz/60 Hz (SYXJ8)
AC 110 V to 240 V, 50 Hz/60 Hz (LXJ)
AC 220 V, 60 Hz (KXJ5)
AC 220 V to 240 V, 50 Hz/60 Hz (XJCN5)
Power consumption ..... 42 W
Power consumption (standby) ..... 0.4 W
Main unit weight..... 8.6 kg (10.4 lb)
Max. dimensions..... 430 mm (W) × 107.9 mm (H) × 404 mm (D)
(16.9 in. (W) × 4.2 in. (H) × 15.9 in. (D))
Tolerable operating temperature.....+5 °C to +35 °C (+41 °F to +95 °F)
Tolerable operating humidity..... 5 % to 85 % (no condensation)

Audio Section

Sampling rate ..... 96 kHz
A/D, D/A converter..... 24 bits
Frequency characteristic
CD/LINE/MIC..... 20 Hz to 20 kHz
S/N ratio (rated output)
PHONO ..... 93 dB
CD/DIGITAL, LINE..... 107 dB
MIC..... 85 dB
Total harmonic distortion (LINE — MASTER1) ..... 0.004 %
Standard input level / Input impedance
PHONO ..... –52 dBu/47 kΩ
CD/LINE ..... –12 dBu/47 kΩ
MIC..... –52 dBu/8.5 kΩ
RETURN..... –12 dBu/49 kΩ
Standard output level / Load impedance / Output impedance
MASTER1..... +8 dBu/10 kΩ/3 Ω or lower
MASTER2..... +2 dBu/10 kΩ/22 Ω or lower
REC OUT..... –8 dBu/10 kΩ/22 Ω or lower
BOOTH..... +8 dBu/10 kΩ/1 kΩ or lower
SEND..... –12 dBu/10 kΩ/1 kΩ or lower
PHONES ..... +8.5 dBu/32 Ω/1 Ω or lower
Rated output level / Load impedance
MASTER1..... +26 dBu/10 kΩ
MASTER2..... +20 dBu/10 kΩ
Crosstalk (LINE) ..... 82 dB
Channel equalizer characteristic
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 characteristic
HI..... –12 dB to +12 dB (10 kHz)
LOW ..... –12 dB to +12 dB (100 Hz)

Input / Output terminals

PHONO input terminal
RCA pin jack..... 2 sets
CD input terminal
RCA pin jacks..... 4 sets
LINE input terminal
RCA pin jack..... 2 sets
MIC input terminal
XLR connector/phone jack (Ø 6.3 mm) ..... 1 set
RETURN Input terminals
Phone jack (Ø 6.3 mm)..... 1 set
DIGITAL IN coaxial input terminal
RCA pin jacks..... 4 sets
MASTER output terminal
XLR connector..... 1 set
RCA pin jacks..... 1 set
BOOTH output terminal
Phone jack (Ø 6.3 mm)..... 1 set
REC OUT output terminal
RCA pin jacks..... 1 set
SEND output terminal
Phone jack (Ø 6.3 mm)..... 1 set
DIGITAL OUT coaxial output terminal
RCA pin jacks..... 1 set
MIDI OUT terminal
5P DIN..... 1 set
PHONES output terminal
Stereo phone jack (Ø 6.3 mm) ..... 1 set
USB terminal
B type ..... 1 set
CONTROL terminal
Mini phone jack (Ø 3.5 mm) ..... 2 sets
LINK terminal
LAN terminal (100Base-TX) ..... 6 sets

- The specifications and design of this product are subject to change without notice.
- Be sure to use the [MASTER1] terminals only for a balanced output. Connection with an unbalanced input (such as RCA) using an XLR to RCA converter cable (or converter adapter), etc., may lower the sound quality and/or result in noise.
  For connection with an unbalanced input (such as RCA), use the [MASTER2] terminals.

Accessories

- CD-ROM
  (DXX2694)
- USB cable
  (DDE1128)
- Power cable
  (CUXJ: DDG1108)
  (SYXJ8: ADG7062)
  (LXJ: ADG7062)
  (KXJ5: ADG7115)
  (XJCN5: ADG7105)
- Operating instructions
  (CUXJ: DRB1634)
  (SYXJ8: DRB1635, DRB1648)
  (LXJ: DRB1636)
  (KXJ5: DRB1638)
  (XJCN5: DRB1637)
- Warranty card
  (SYXJ8 only)

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Check points
1	Check the firmware version in Test mode.	The firmware version must be the latest one. If it is not the latest one, be sure to update it.
2	Confirm whether the customer complain has been solved. If the customer complain occurs with the specific source, such as Mic, each Input, Fader, Equalizer, and Trim, input that specific source for checking.	The customer complain must not be reappeared. Audio and operations must be normal.
3	Check the analog audio input. (Check the MIC1, MIC2 and RETURN.) (Make the analog connections with CDJ player, analog player and MIC.)	Audio and operations must be normal.
4	Check the analog audio output. (MASTER1, 2, REC, BOOTH and SEND.) (Make the analog connection with CDJ player.)	Audio and operations must be normal.
5	Check the digital audio input/output.	Audio for each channel and operations must be normal.
6	Check the headphones output.	There must be no errors, such as noise, in the audio output.
7	Check playback, using the fader function. (Select the fader function then check operations of each channel with audio signals via the DSP.)	There must be no errors in audio output and operations of each channel.
8	Check the connection of each interface.	
	USB B	The device must be properly recognized by the PC.
	LINK	Connection of the LAN must be normal in the Test mode.
9	Check the buttons and controls.	Make sure that all buttons and controls on the main unit function properly.
10	Check the FL displays and LEDs.	Check that all the Display and LEDs light in Test mode.
11	Check the user settings.	They must be returned to those set before repair.
12	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding audio.

Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

3.2 JIGS LIST

■ Jigs List

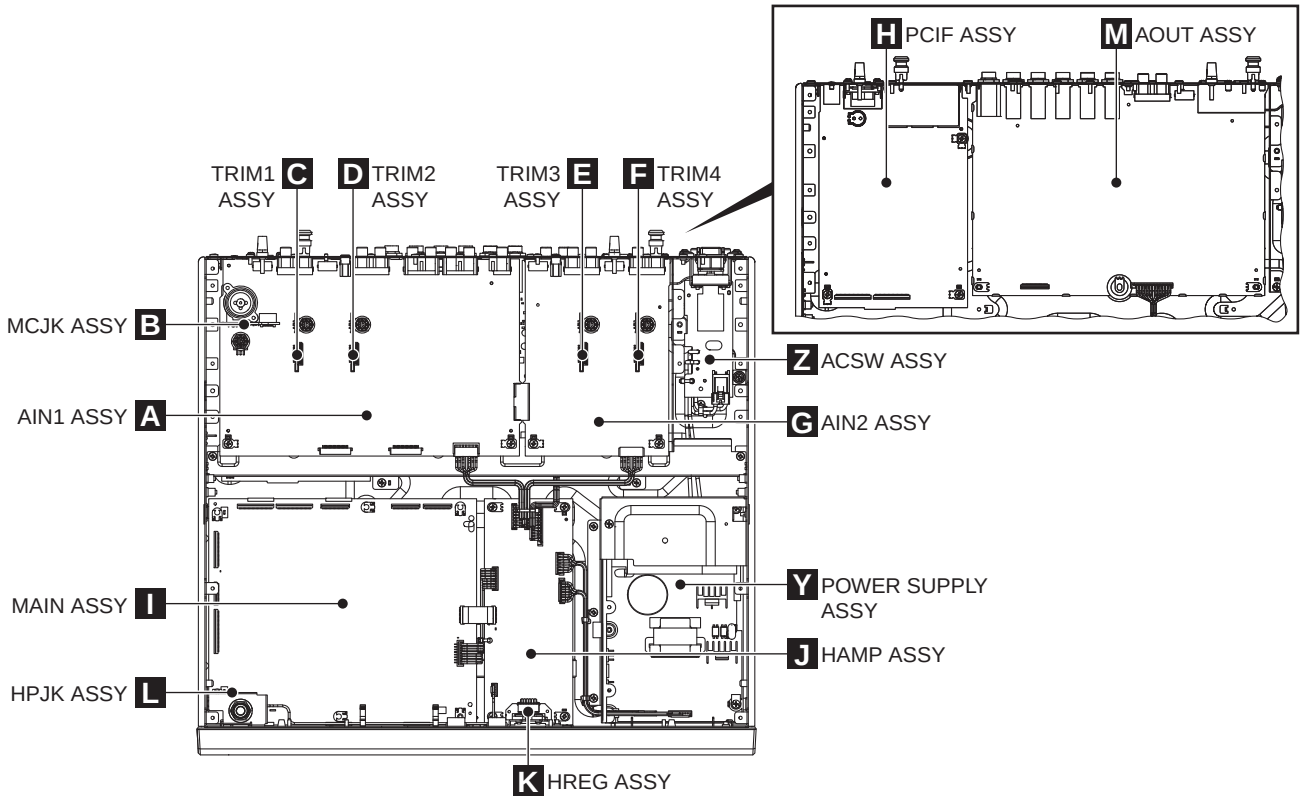
Jig Name	Part No.	Purpose of use / Remarks
USB cable	GGP1193	for PC connection

■ Lubricants and Glues List

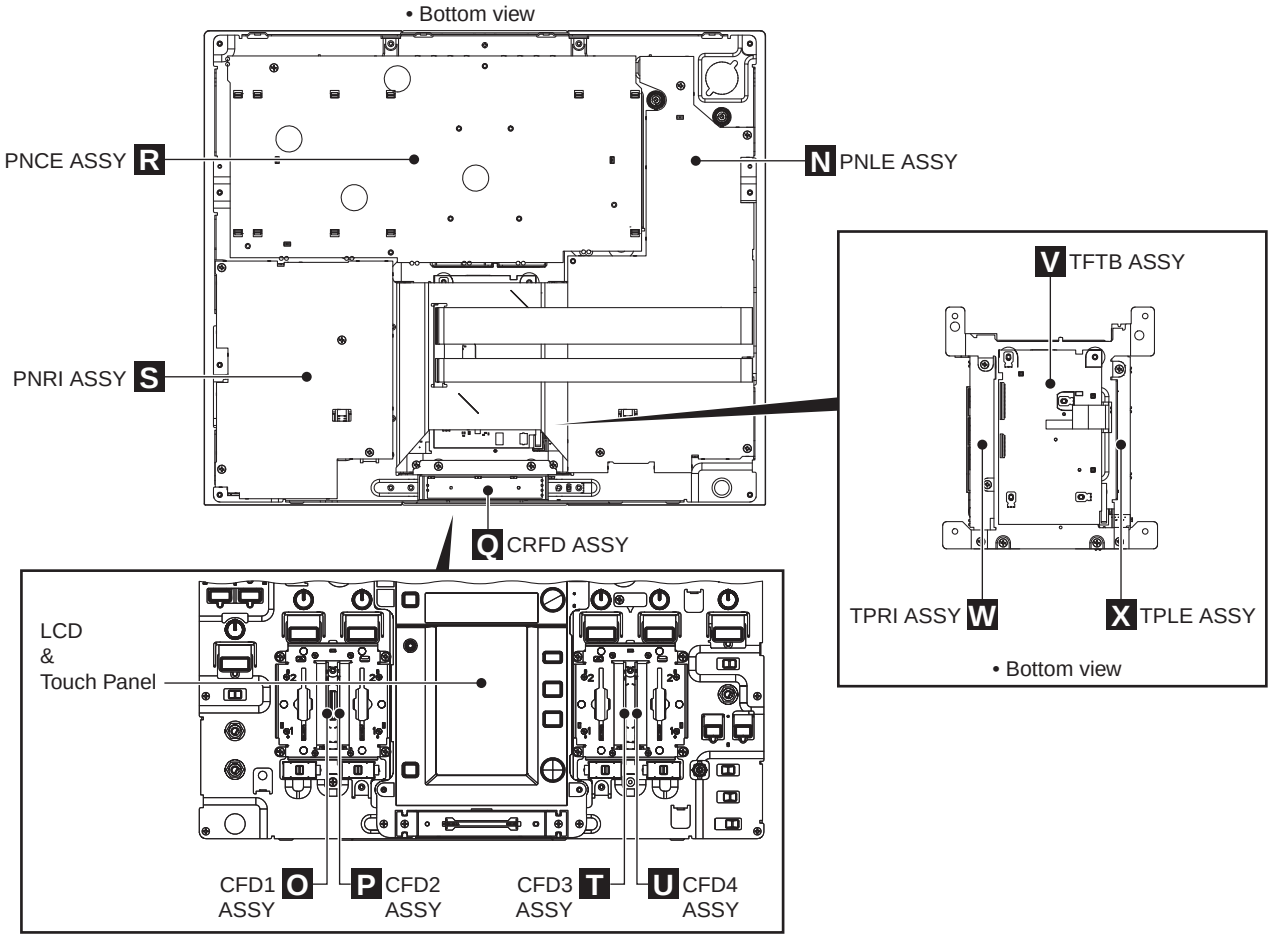
Name	Part No.	Remarks
Lubricating oil	GYA1001	Refer to "9.4 CONTROL PANEL SECTION (1/2)".

3.3 PCB LOCATIONS

■ Main Section



■ Control Panel Section



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.*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
NSP	1..	AITF ASSY	DWM2334
	2..	TFTB ASSY	DWX2921
	2..	AIN1 ASSY	DWX2922
	2..	TRIM1 ASSY	DWX2935
	2..	TRIM2 ASSY	DWX2936
NSP	1..	AIPC ASSY	DWM2335
	2..	AIN2 ASSY	DWX2923
	2..	PCIF ASSY	DWX2925
	2..	TRIM3 ASSY	DWX2937
	2..	TRIM4 ASSY	DWX2938
	2..	TPLE ASSY	DWX3010
	2..	TPRI ASSY	DWX3011
NSP	1..	PNLB ASSY	DWM2483
	2..	PNLE ASSY	DWX3413
	2..	PNRI ASSY	DWX3414
	2..	CRFD ASSY	DWX3415
	2..	CFD1 ASSY	DWX3416
	2..	CFD2 ASSY	DWX3417
	2..	CFD3 ASSY	DWX3418
	2..	CFD4 ASSY	DWX3419
NSP	1..	OUHP ASSY	DWM2484
	2..	AOUT ASSY	DWX3420
	2..	HPJK ASSY	DWX3421
	2..	HAMP ASSY	DWX3422
	2..	HREG ASSY	DWX3423
NSP	1..	PNLA ASSY	DWM2485
	2..	ACSW ASSY	DWX2918
	2..	MCJK ASSY	DWX2934
	2..	PNCE ASSY	DWX3426
	1..	MAIN ASSY	DWX3424
⚠		POWER SUPPLY ASSY	DWR1492
		LCD	CWX3868
		Touch Panel	DSX1085

A

B

C

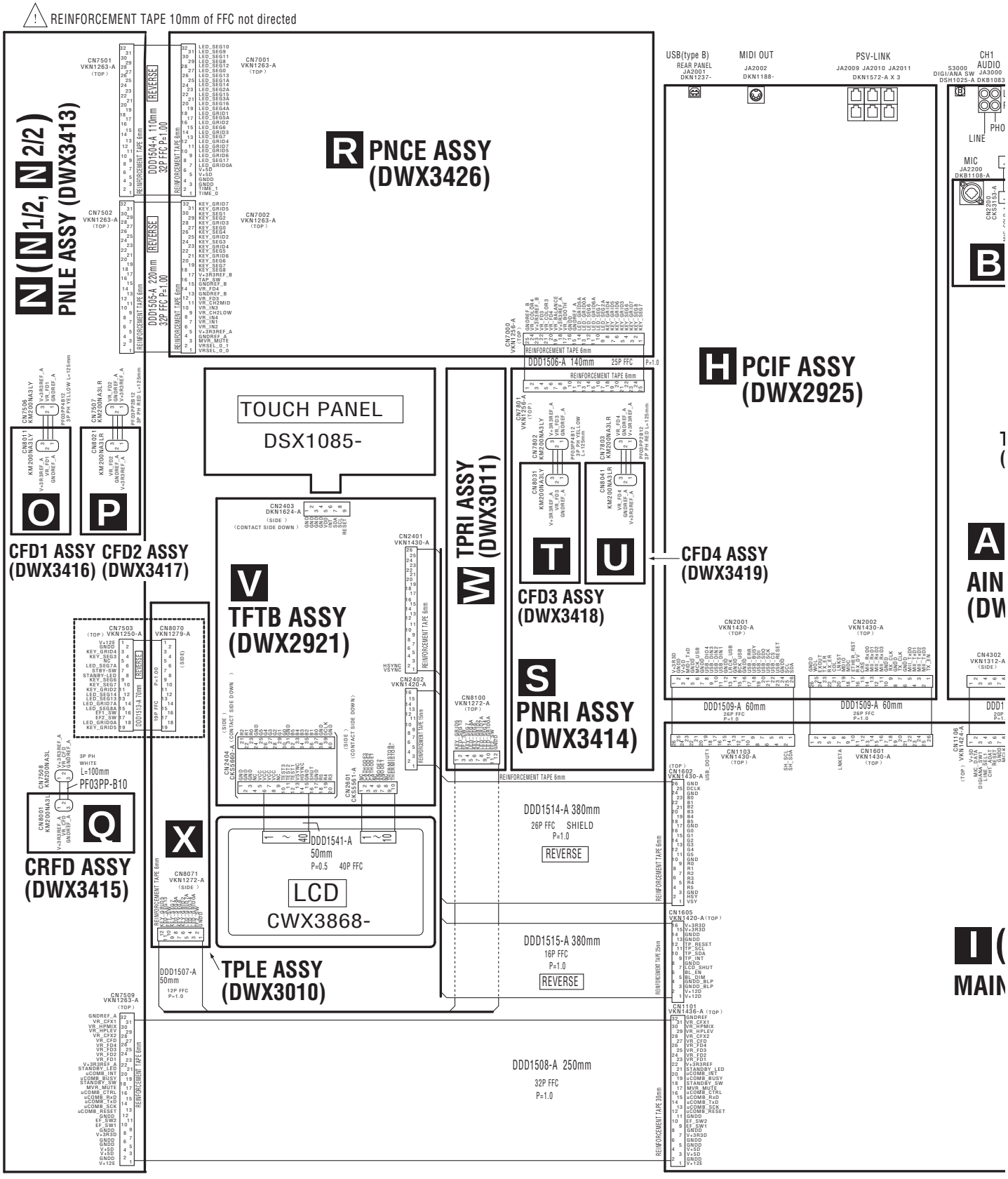
D

E

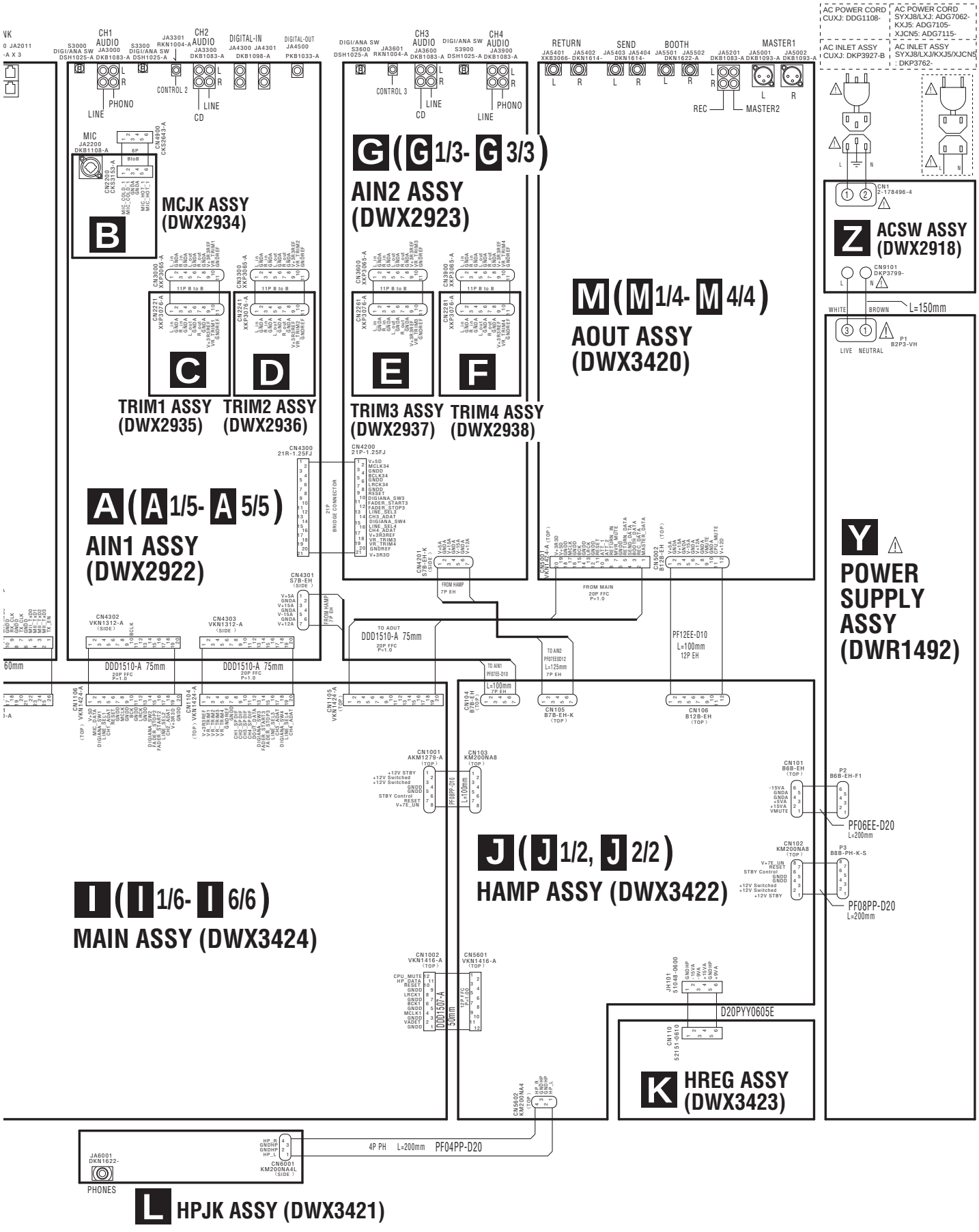
F

4. BLOCK DIAGRAM

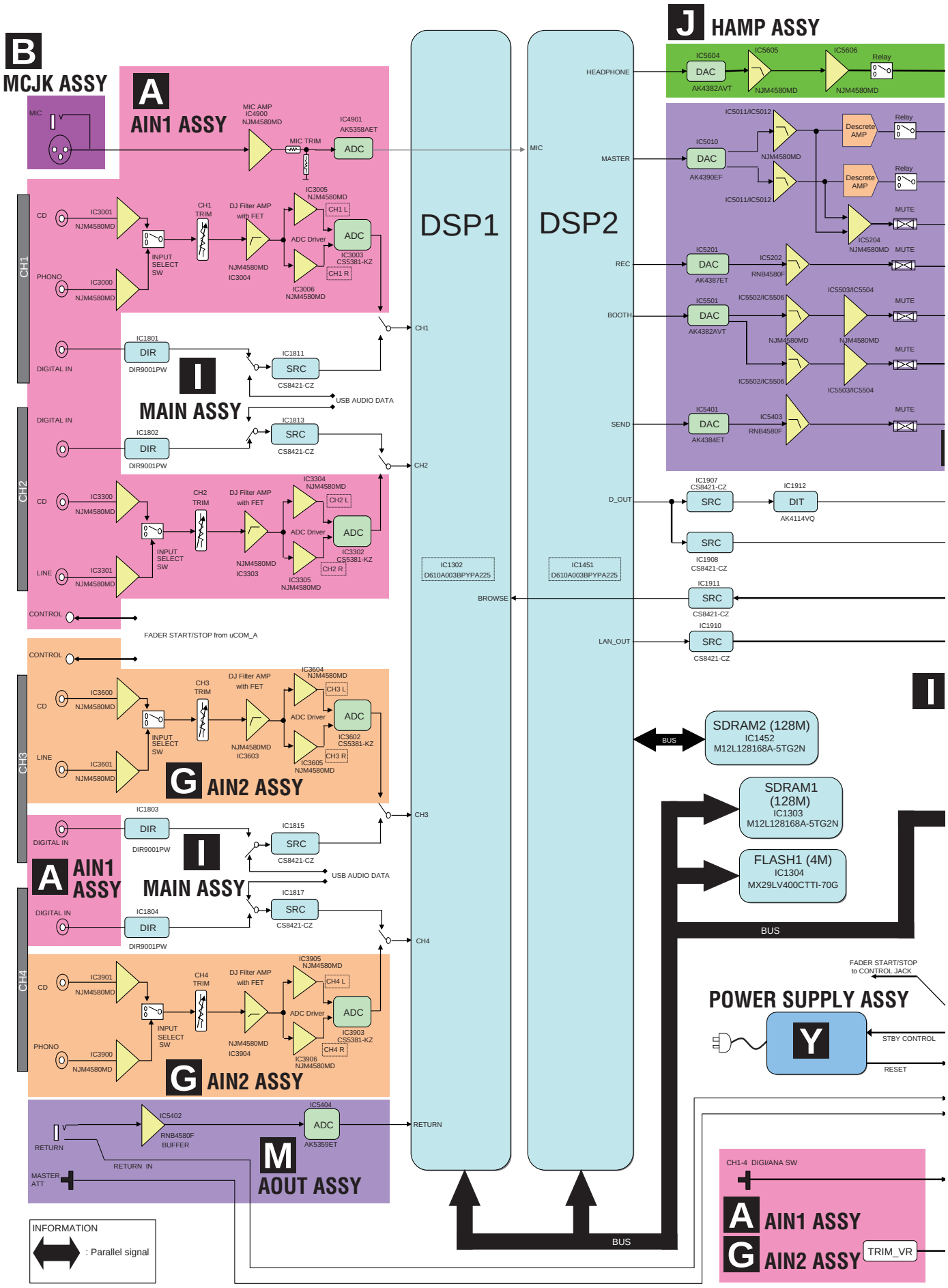
4.1 OVERALL WIRING DIAGRAM

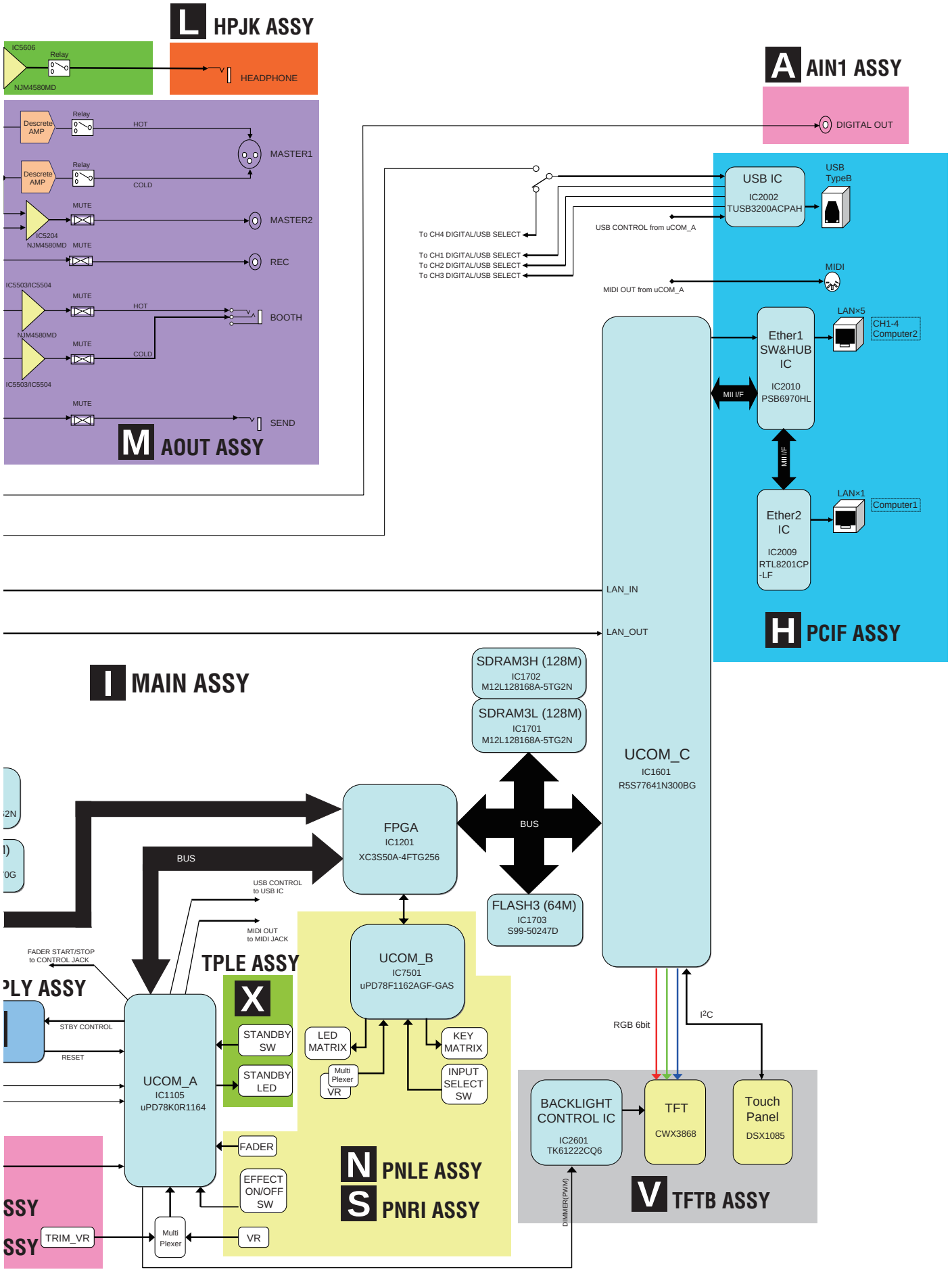


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply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

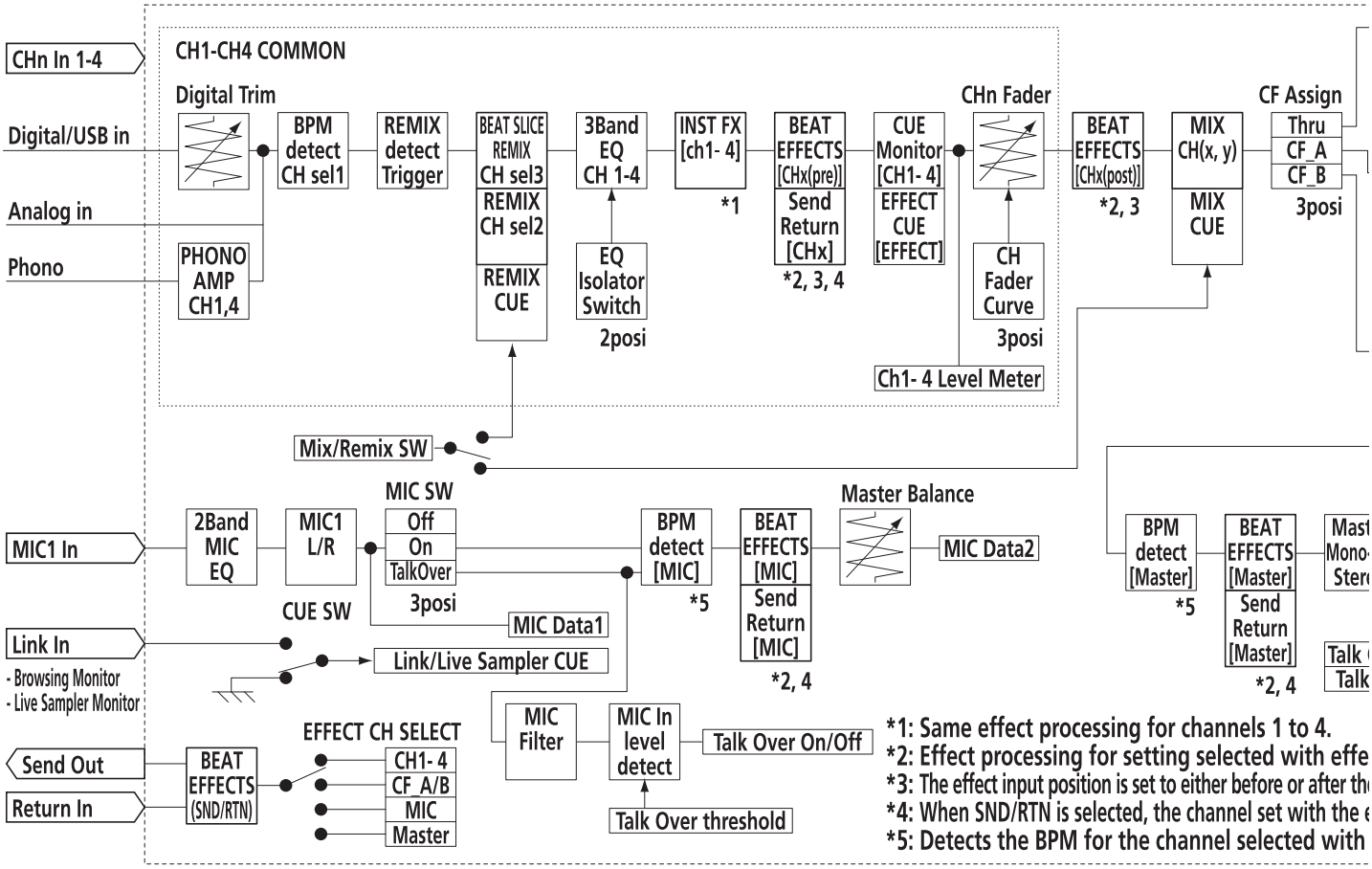

AC POWER CORD CUXJ: DDG1108-
AC POWER CORD SYXJ8/LXJ: ADG7062- KXJ5: ADG7105- XJCN5: ADG7115-
AC INLET ASSY CUXJ: DKP3927-B
AC INLET ASSY SYXJ8/LXJ/KXJ5/XJCN5 : DKP3762-
CH1 AUDIO JA3000
CH2 AUDIO JA3300
DIGITAL-IN JA4300 JA4301
DIGITAL-OUT JA4500
CH3 AUDIO JA3600
CH4 AUDIO JA3900
RETURN JA5401 JA5402
SEND JA5403 JA5404
BOOTH JA5501 JA5502
MASTER1 JA5001 JA5002
LINE
PHONO
CONTROL 2
CONTROL 3
CD
REC
MASTER2
MIC JA2200
MCJK ASSY (DWX2934)
B
G (G 1/3- G 3/3)
AIN2 ASSY (DWX2923)
M (M 1/4- M 4/4)
AOUT ASSY (DWX3420)
Z ACSW ASSY (DWX2918)
C
D
E
F
TRIM1 ASSY (DWX2935)
TRIM2 ASSY (DWX2936)
TRIM3 ASSY (DWX2937)
TRIM4 ASSY (DWX2938)
A (A 1/5- A 5/5)
AIN1 ASSY (DWX2922)
Y
POWER SUPPLY ASSY (DWR1492)
WHITE
BROWN
L=150mm
LIVE
NEUTRAL
DDD1510-A 75mm
TO AOUT
FROM HAMP
FROM MAIN
PF12EE-D10 L=100mm 12P EH
I (I 1/6- I 6/6)
MAIN ASSY (DWX3424)
J (J 1/2, J 2/2)
HAMP ASSY (DWX3422)
PF06EE-D20 L=200mm
PF08PP-D20 L=200mm
D20PYY0605E
K HREG ASSY (DWX3423)
L HPJK ASSY (DWX3421)
PHONES
4P PH L=200mm PF04PP-D20

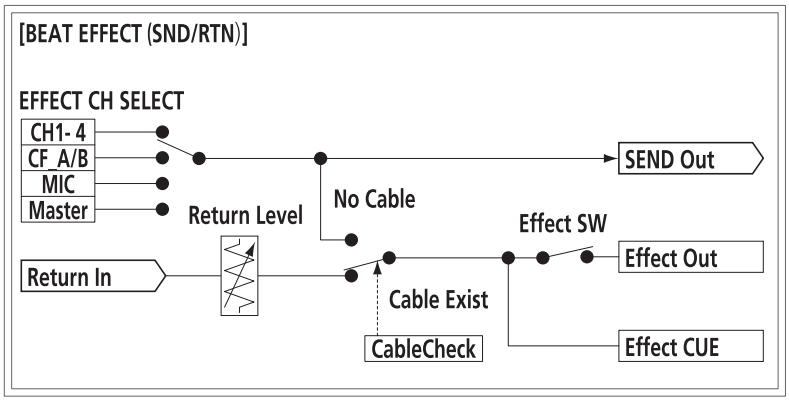
4.2 OVERALL BLOCK DIAGRAM

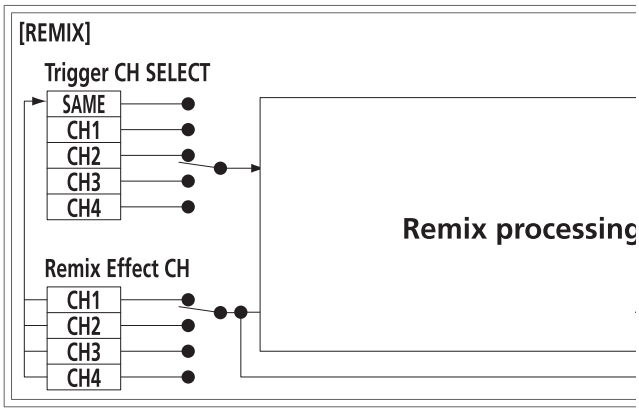


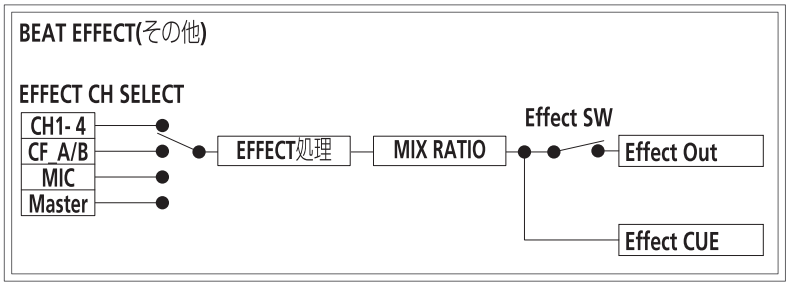

L HPJK ASSY
IC5606
Relay
NJM4580MD
HEADPHONE
A AIN1 ASSY
DIGITAL OUT
Descrete AMP
Relay
HOT
MASTER1
COLD
MASTER2
MUTE
IC5204
NJM4580MD
REC
IC5503/IC5504
BOOTH
SEND
M AOUT ASSY
To CH4 DIGITAL/USB SELECT
To CH1 DIGITAL/USB SELECT
To CH2 DIGITAL/USB SELECT
To CH3 DIGITAL/USB SELECT
USB CONTROL from uCOM_A
USB IC
IC2002
TUSB3200ACPAH
USB TypeB
MIDI
MIDI OUT from uCOM_A
Ether1 SW&HUB IC
IC2010
PSB6970HL
MII I/F
LAN×5
CH1-4 Computer2
Ether2 IC
IC2009
RTL8201CP-LF
LAN×1
Computer1
LAN_IN
LAN_OUT
H PCIF ASSY
I MAIN ASSY
SDRAM3H (128M)
IC1702
M12L128168A-5TG2N
SDRAM3L (128M)
IC1701
M12L128168A-5TG2N
UCOM_C
IC1601
R5S77641N300BG
FPGA
IC1201
XC3S50A-4FTG256
BUS
FLASH3 (64M)
IC1703
S99-50247D
USB CONTROL to USB IC
MIDI OUT to MIDI JACK
FADER START/STOP to CONTROL JACK
TPLE ASSY
X
UCOM_B
IC7501
uPD78F1162AGF-GAS
LED MATRIX
KEY MATRIX
Multi Plexer
VR
INPUT SELECT SW
STANDBY SW
STANDBY LED
STBY CONTROL
RESET
UCOM_A
IC1105
uPD78K0R1164
FADER
EFFECT ON/OFF SW
TRIM_VR
Multi Plexer
VR
N PNLE ASSY
S PNRI ASSY
RGB 6bit
I²C
BACKLIGHT CONTROL IC
IC2601
TK61222CQ6
TFT
CWX3868
Touch Panel
DSX1085
V TFTB ASSY
DIMMER(PWM)

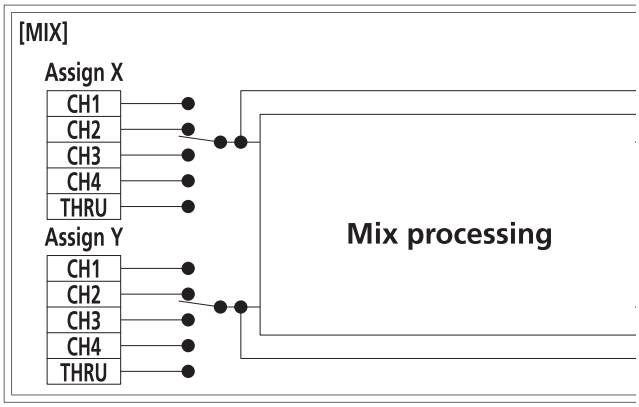
4.3 DSP BLOCK DIAGRAM

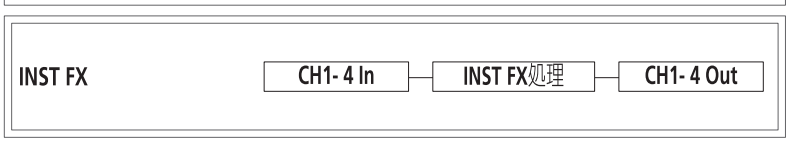


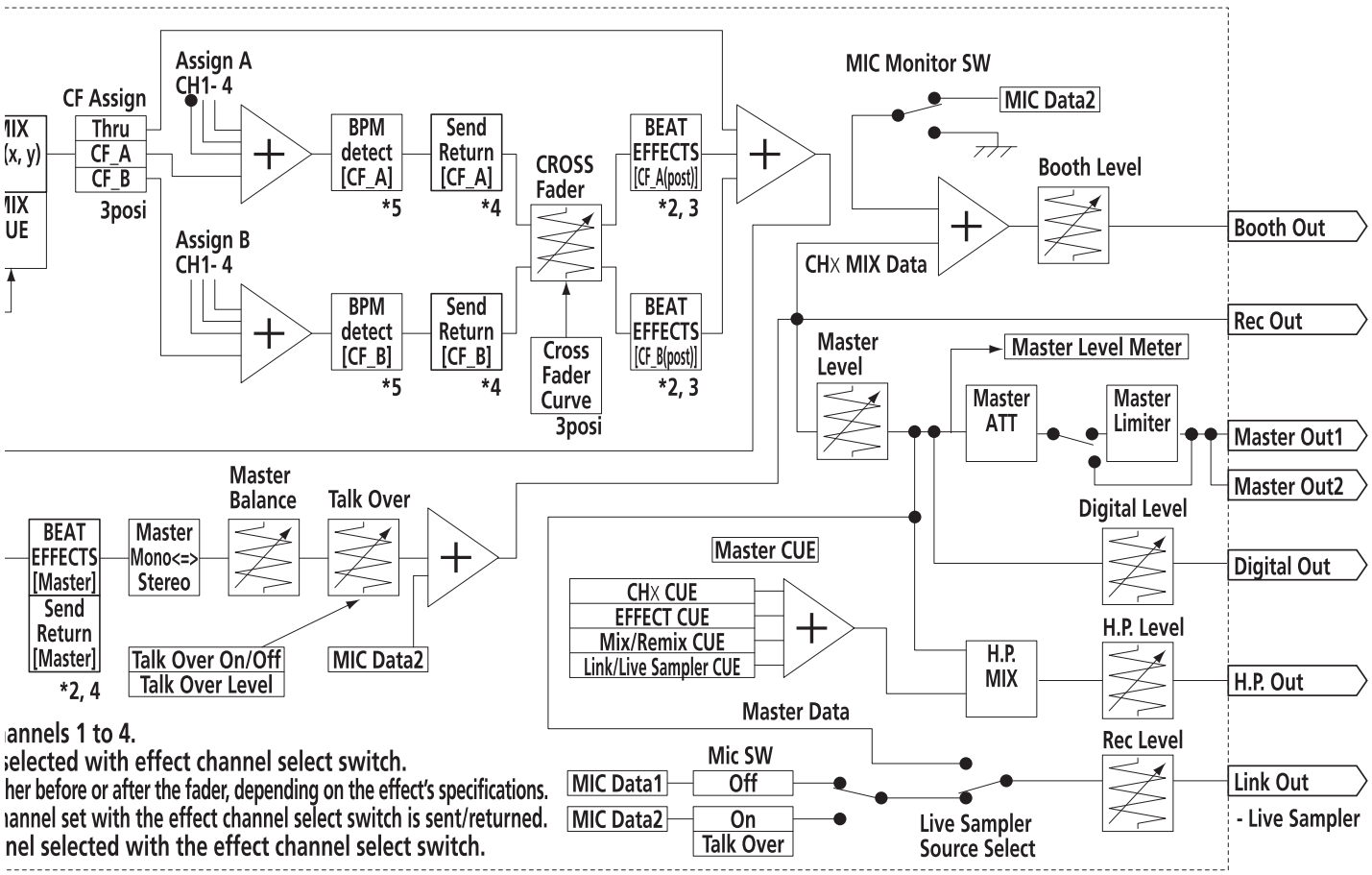


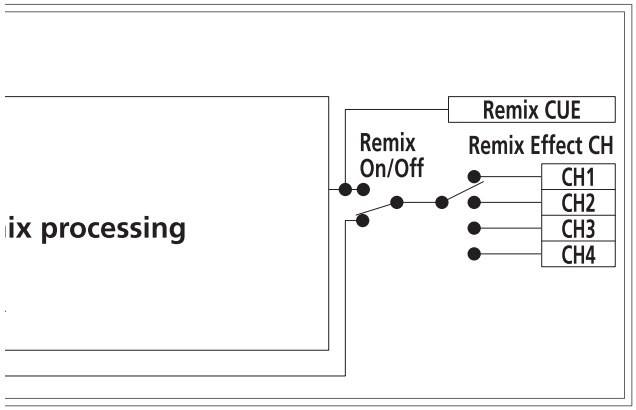


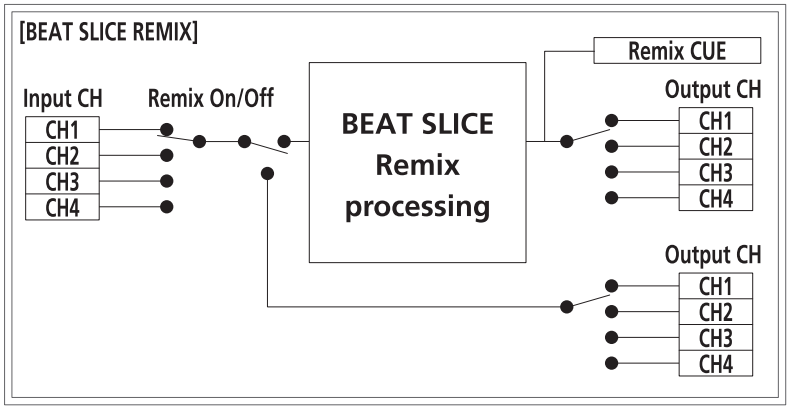


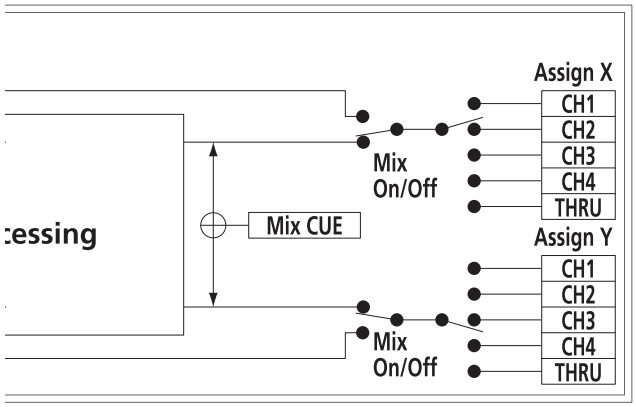


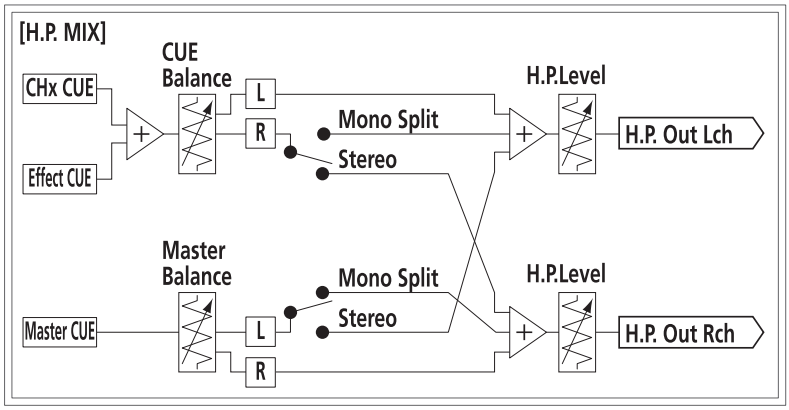



Assign A
CH1- 4
CF Assign
Thru
CF_A
CF_B
3posi
BPM detect [CF_A]
*5
Send Return [CF_A]
*4
CROSS Fader
BEAT EFFECTS [CF_A(post)]
*2, 3
Assign B
CH1- 4
BPM detect [CF_B]
*5
Send Return [CF_B]
*4
Cross Fader Curve
3posi
BEAT EFFECTS [CF_B(post)]
*2, 3
MIC Monitor SW
MIC Data2
Booth Level
Booth Out
CHX MIX Data
Rec Out
Master Level
Master Level Meter
Master ATT
Master Limiter
Master Out1
Master Out2
Digital Level
Digital Out
Master Balance
Talk Over
BEAT EFFECTS [Master]
Send Return [Master]
*2, 4
Master Mono<=> Stereo
Talk Over On/Off
Talk Over Level
MIC Data2
Master CUE
CHX CUE
EFFECT CUE
Mix/Remix CUE
Link/Live Sampler CUE
H.P. MIX
H.P. Level
H.P. Out
Master Data
Mic SW
MIC Data1
Off
MIC Data2
On
Talk Over
Live Sampler Source Select
Rec Level
Link Out
- Live Sampler
annels 1 to 4.
elected with effect channel select switch.
her before or after the fader, depending on the effect's specifications.
annel set with the effect channel select switch is sent/returned.
nel selected with the effect channel select switch.

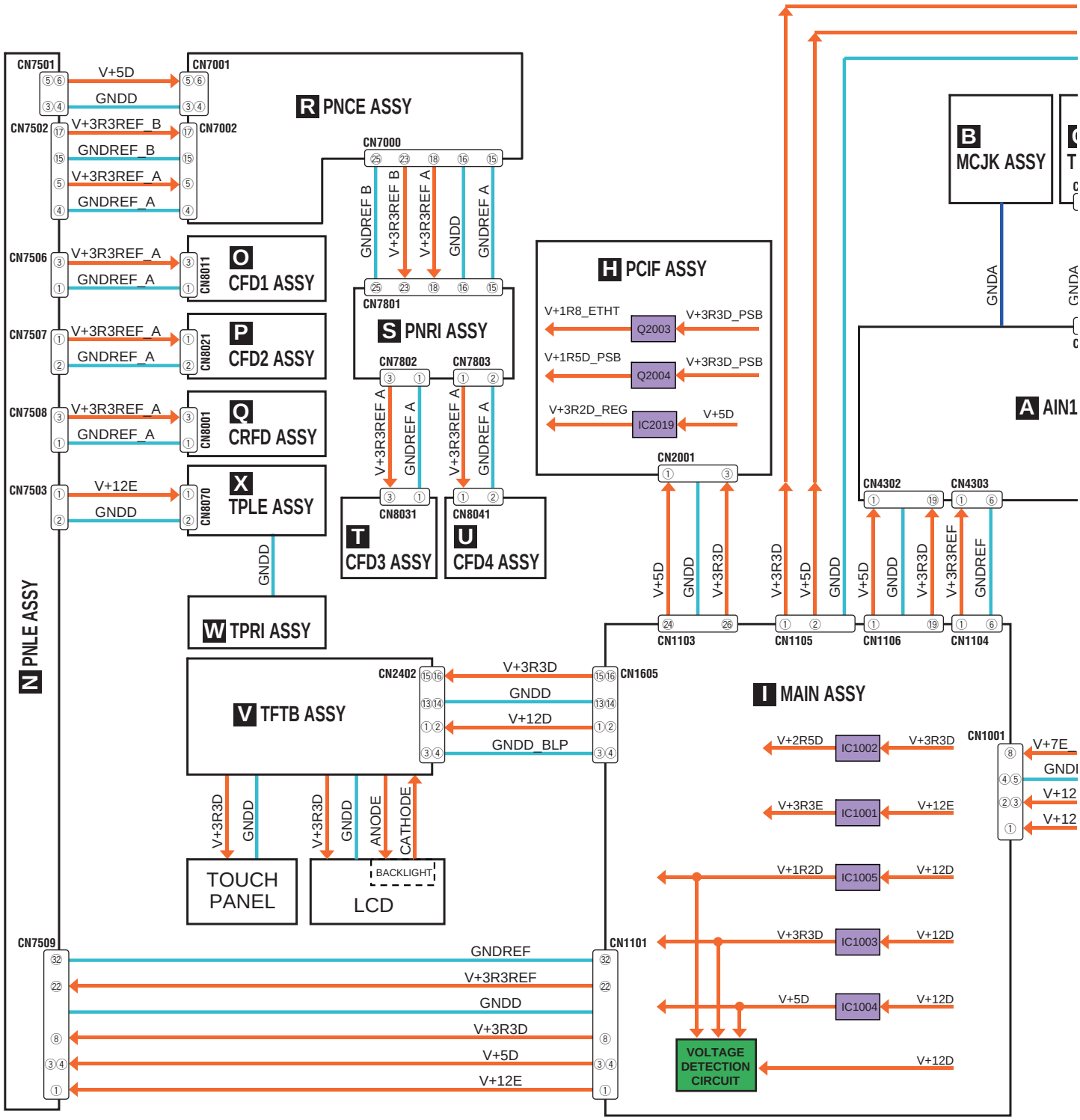

ix processing
Remix CUE
Remix On/Off
Remix Effect CH
CH1
CH2
CH3
CH4

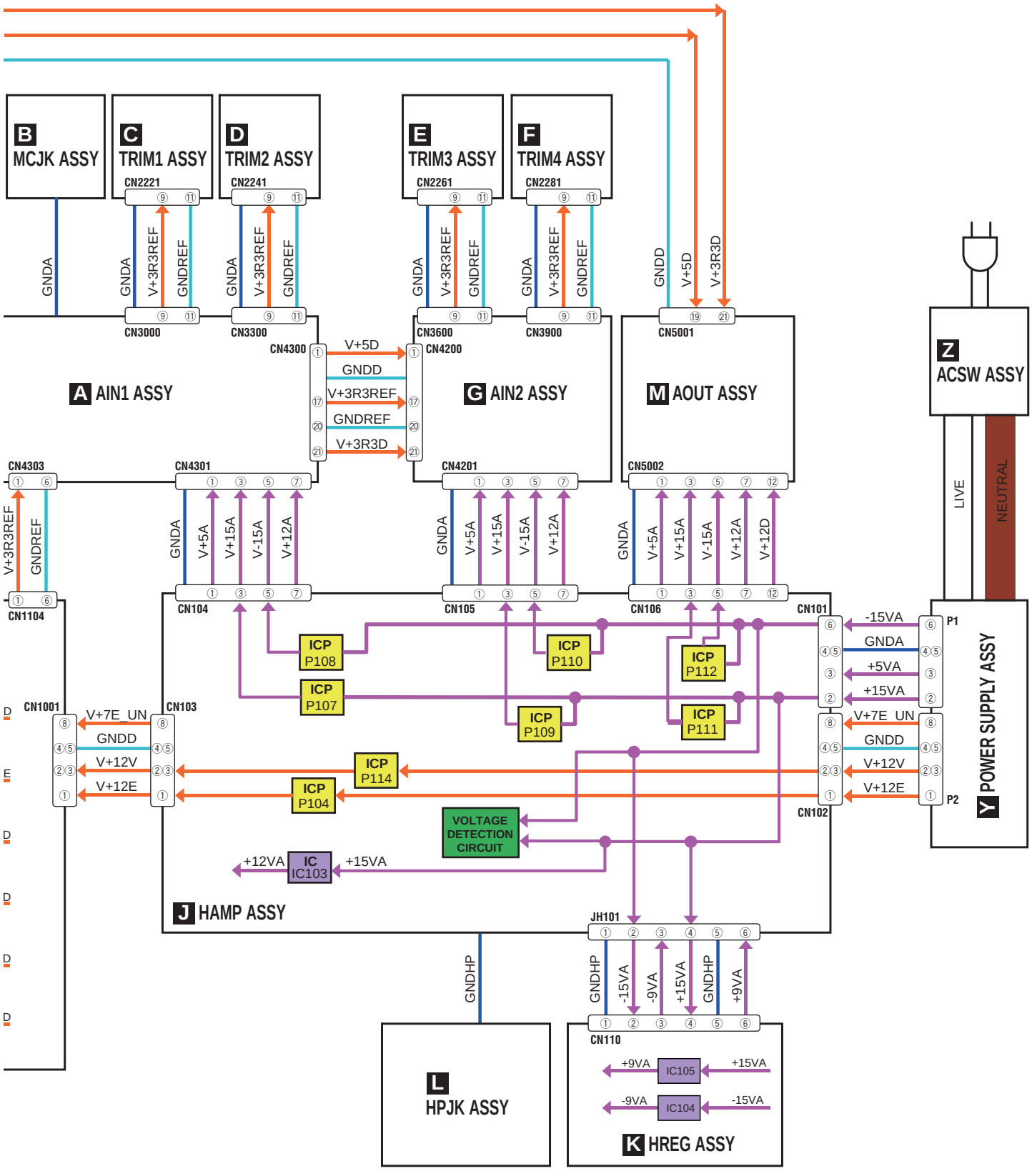

[BEAT SLICE REMIX]
Remix CUE
Input CH
Remix On/Off
CH1
CH2
CH3
CH4
BEAT SLICE Remix processing
Output CH
CH1
CH2
CH3
CH4
Output CH
CH1
CH2
CH3
CH4


cessing
Assign X
CH1
CH2
CH3
CH4
THRU
Mix On/Off
Mix CUE
Assign Y
CH1
CH2
CH3
CH4
THRU
Mix On/Off

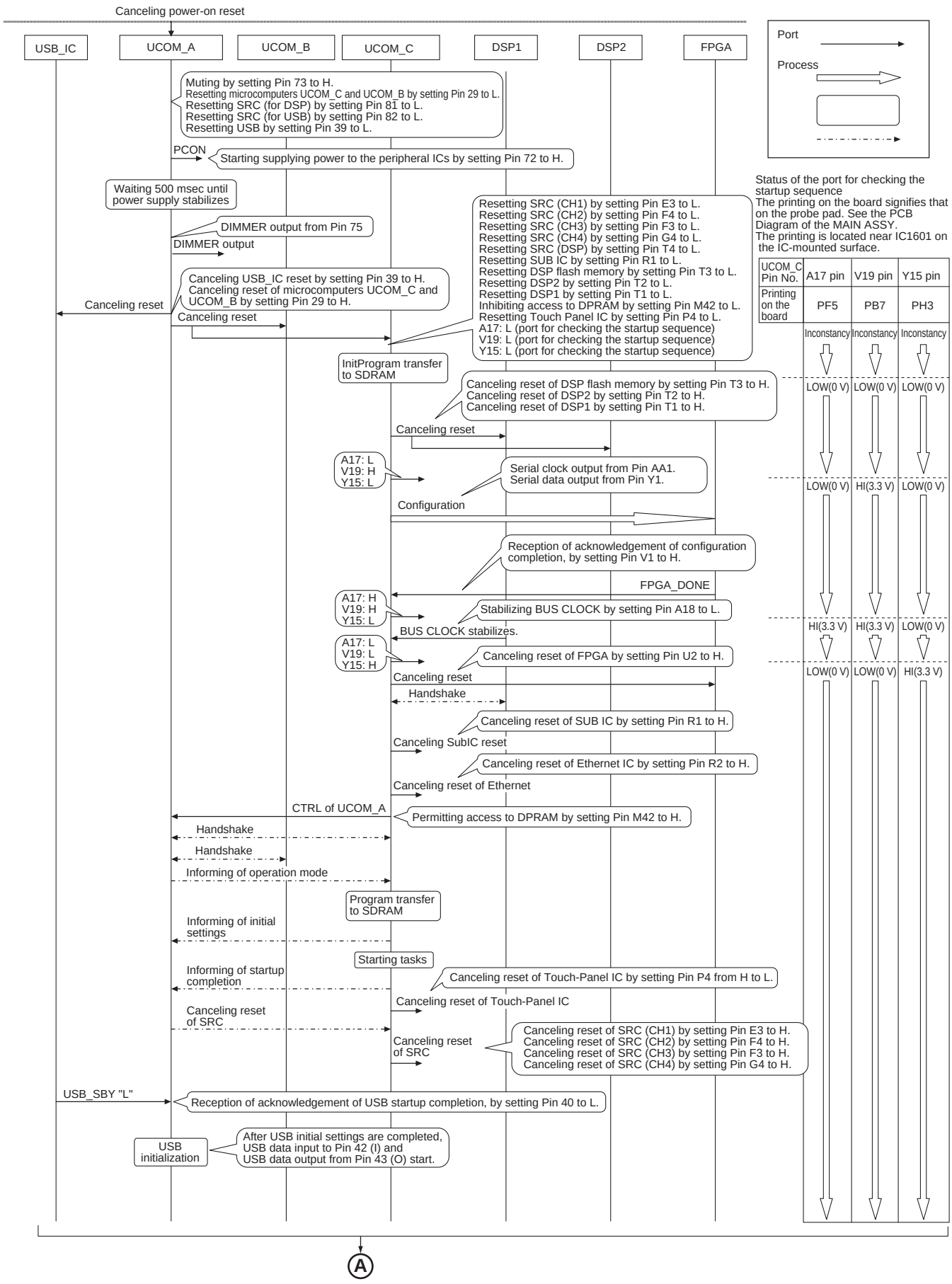

[H.P. MIX]
CHx CUE
Effect CUE
CUE Balance
L
R
Mono Split
Stereo
H.P.Level
H.P. Out Lch
Master CUE
Master Balance
L
R
Mono Split
Stereo
H.P.Level
H.P. Out Rch

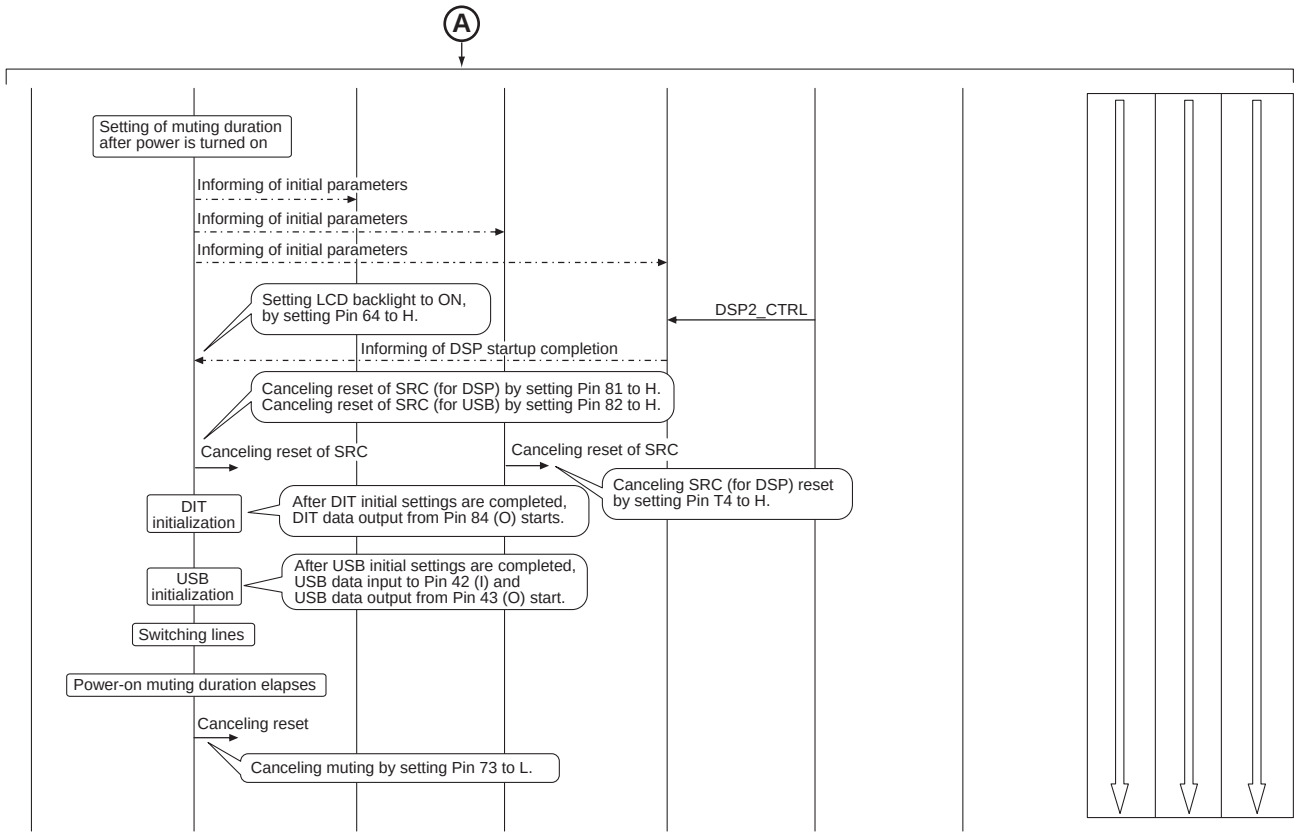
4.4 POWER BLOCK DIAGRAM




B MCJK ASSY
C TRIM1 ASSY
D TRIM2 ASSY
E TRIM3 ASSY
F TRIM4 ASSY
A AIN1 ASSY
G AIN2 ASSY
M AOUT ASSY
Z ACSW ASSY
Y POWER SUPPLY ASSY
J HAMP ASSY
L HPJK ASSY
K HREG ASSY
CN2221
CN2241
CN2261
CN2281
CN3000
CN3300
CN3600
CN3900
CN5001
CN4300
CN4200
CN4303
CN4301
CN4201
CN5002
CN1104
CN104
CN105
CN106
CN101
CN102
CN1001
CN103
JH101
CN110
GNDA
V+3R3REF
GNDREF
GNDD
V+5D
V+3R3D
V+5A
V+15A
V-15A
V+12A
V+12D
LIVE
NEUTRAL
-15VA
+5VA
+15VA
V+7E_UN
V+12V
V+12E
GNDHP
-9VA
+9VA
+12VA
ICP P108
ICP P110
ICP P112
ICP P107
ICP P109
ICP P111
ICP P114
ICP P104
VOLTAGE DETECTION CIRCUIT
IC IC103
IC105
IC104
P1
P2

5. DIAGNOSIS
5.1 POWER ON SEQUENCE





5.2 SIMPLIFIED DIAGNOSTIC PROCEDURE FOR AUDIO SIGNAL

Simplified diagnostic for the audio signal blocks is possible, using the NOISE effect functions of this unit, as shown below.
Check if:

· white noise is audible when the NOISE effect button is set to ON.
· the volume of white noise changes in response to turning of the PARAMETER control of the NOISE effect functions.

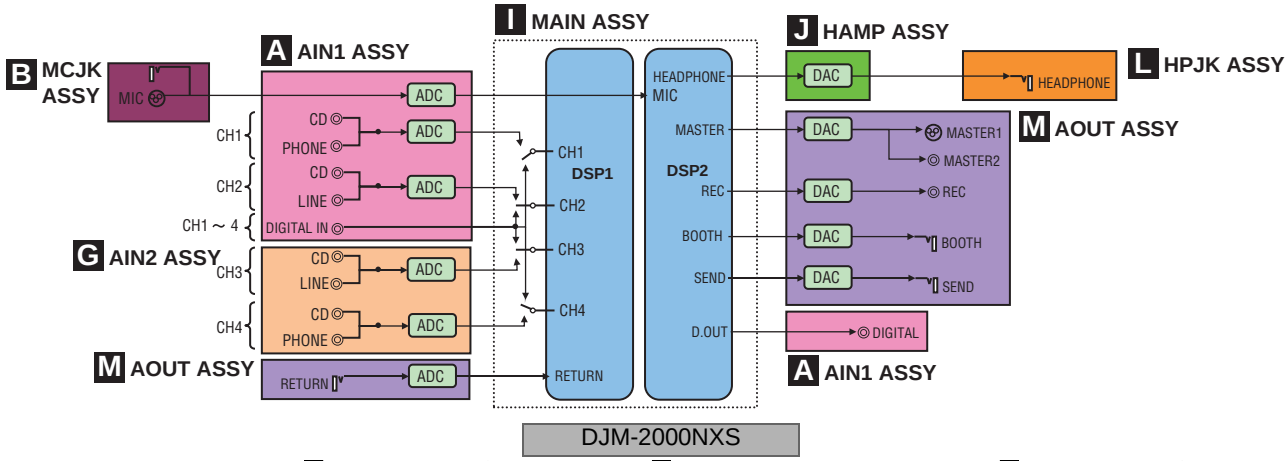
If both phenomena can be confirmed, the block prior to the DSP can be deemed as being in failure.
If only one of the two or neither phenomenon is confirmed, the DSP (including its periphery) and the subsequent block can be deemed as being in failure.

The operating procedure for the NOISE effect is indicated below.

① Press the INST FX NOISE button.
② Turn the FILTER control of the channel you wish to check to set the cutoff frequency for the filter through which white noise is to be filtered.
③ Turn the PARAMETER control to set the volume of white noise.

(For details, refer to the operating instructions of the unit.)
This diagnostic method is applicable to other mixers equipped with the NOISE effect.

Note: "PARAMETER" is an indication on the DJM-2000NXS and DJM-2000. A control having the same function may have another name, depending on the model.



5.3 ERROR INDICATIONS

■ Indications of Errors during Startup

If an error is detected during the boot sequence, the following requirements must be met:
• Master muting should not be canceled.
• An error status should be notified to the user.
The indication method differs, depending on where an error was generated. See the table below.
Note: If there are several errors whose error codes are to be indicated on the LCD display, those error codes are added.
Example: USB + DIT = 0x0004 + 0x0008 = 0x000C

Error (in the order of detection)	Detection Microcomputer	Indication	Cause	Diagnostics Point
DSP1	UCOM_A	Repeated 3-time flashing of the UTILITY LED (lit and unlit for 250 ms each 3 times then unlit for 1 s)	• UCOM_C does not start. • DSP1 does not start. • Configuration of the FPGA is not completed.	• Check SH_RESET is Hi level. • Check DSP_RESET is Hi level. • Check 24 MHz clock is oscillated. → MAIN Assy No. 30 • Check FPGA_DONE is Hi level. → MAIN Assy No. 37
FPGA	UCOM_A	Repeated 3-time flashing of the UTILITY LED (lit and unlit for 250 ms each 3 times then unlit for 1 s)	• UCOM_C does not start. • DSP1 does not start. • Configuration of the FPGA is not completed.	• Check SH_RESET is Hi level. • Check DSP_RESET is Hi level. • Check 24 MHz clock is oscillated. → MAIN Assy No. 30 • Check FPGA_DONE is Hi level. → MAIN Assy No. 37
UCOM_A	UCOM_A	Error code 0x0001 is displayed on the LCD display or Update mode is started.	A state of the ROM is not correct.	• Check a voltage of V+3R3E. • Check POWER_RESET is Hi level.
UCOM_C	UCOM_A	Repeated 3-time flashing of the UTILITY LED (lit and unlit for 250 ms each 3 times then unlit for 1 s)	• UCOM_C does not start. • DSP does not start. • Configuration of the FPGA is not completed.	• Check SH_RESET is Hi level. • Check DSP_RESET is Hi level. • Check 24 MHz clock is oscillated. → MAIN Assy No. 30 • Check FPGA_DONE is Hi level. → MAIN Assy No. 37
UCOM_B	UCOM_A	Error code 0x0002 is displayed on the LCD display.	The communication between UCOM_A and the UCOM_B is not possible.	• Check uCOMB_RESET is Hi level. • Check uCOMB_SCK. → MAIN Assy No. 4 • Check uCOMB_TXD.→ MAIN Assy No. 5 • Check uCOMB_RXD.→ MAIN Assy No. 6 • Check uCOMB_CTRL.→ MAIN Assy No. 7
USB_IC	UCOM_A	Error code 0x0004 is displayed on the LCD display.	• Does not start. • Communication is not possible.	• Check voltages of V+3R3D_USB and V+5D_USB. • Check USB_RESET is Hi level. → PCIF Assy No. 3 • Check USB_CS, SCK, SDI and SDO.
DIT	UCOM_A	Error code 0x0008 is displayed on the LCD display.	Communication is not possible.	• Check SUBIC_RESET is Hi level. • Check DITD_CS, SCK, TXD and RXD.
LINK(CH1)	UCOM_C	Error code 0x0080 is displayed on the LCD display.	Software reset completion is time-out	• Check ETHER_RST is Hi level. • Check voltages of V+3R3D_PSB, V+1R8_ETHT, V+1R5D_PSB, V+5D and V+3R2D_REG. • Check 25 MHz clock is oscillated. → PCIF Assy No. 10, 11
LINK(CH2)	UCOM_C	Error code 0x0040 is displayed on the LCD display.	Software reset completion is time-out	• Check ETHER_RST is Hi level. • Check voltages of V+3R3D_PSB, V+1R8_ETHT, V+1R5D_PSB, V+5D and V+3R2D_REG. • Check 25 MHz clock is oscillated. → PCIF Assy No. 10, 11
LINK(CH3)	UCOM_C	Error code 0x0020 is displayed on the LCD display.	Software reset completion is time-out	• Check ETHER_RST is Hi level. • Check voltages of V+3R3D_PSB, V+1R8_ETHT, V+1R5D_PSB, V+5D and V+3R2D_REG. • Check 25 MHz clock is oscillated. → PCIF Assy No. 10, 11
LINK(CH4)	UCOM_C	Error code 0x0010 is displayed on the LCD display.	Software reset completion is time-out	• Check ETHER_RST is Hi level. • Check voltages of V+3R3D_PSB, V+1R8_ETHT, V+1R5D_PSB, V+5D and V+3R2D_REG. • Check 25 MHz clock is oscillated. → PCIF Assy No. 10, 11
LINK(PC1)	UCOM_C	Error code 0x0200 is displayed on the LCD display.	Software reset completion is time-out	• Check ETHER_RST is Hi level. • Check voltages of V+3R3D_PSB, V+1R8_ETHT, V+1R5D_PSB, V+5D and V+3R2D_REG. • Check 25 MHz clock is oscillated. → PCIF Assy No. 10, 11

* No. of the PCB Assy are referred to section "10.30 WAVEFORMS."

Error (in the order of detection)	Detection Microcomputer	Indication	Cause	Diagnostics Point
LINK(PC2)	UCOM_C	Error code 0x0100 is displayed on the LCD display.	Software reset completion is time-out	• Check ETHER_RST is Hi level. • Check voltages of V+3R3D_PSB, V+1R8_ETHT, V+1R5D_PSB, V+5D and V+3R2D_REG. • Check 25 MHz clock is oscillated. → PCIF Assy No. 10, 11
Touch panel	UCOM_C	Error code 0x0800 is displayed on the LCD display.	Communication is not possible.	• Check a voltage of V+3R3D adjacent to the touch panel. • Check TP_RESET. → MAIN Assy No. 42 • Check TP_SCL. → MAIN Assy No. 43 • Check TP_SDA. → MAIN Assy No. 44 • Check TP_INT. → MAIN Assy No. 45

* No. of the PCB Assy are referred to section "10.30 WAVEFORMS."

Indications of Errors during Power Failure

The UTILITY LED flashes (Intervals: 250 ms [Lit 125 ms/Unlit 125 ms]).
Refer to the "5.3 VOLTAGE MONITORING CIRCUIT".

Indications of Errors during Updating

Indication	Microcomputer in failure	Correspondence
Update Error E001	UCOM_A	Please update it again.
Update Error E002	UCOM_B	Please update it again.
Update Error E003	UCOM_C	Please update it again.
Update Error E004	DSP1 program	Please update it again.
Update Error E005	DSP2 program	Please update it again.
Update Error E006	DSP data	Please update it again.
Update Error E007	USB_IC	Please update it again.
Update Error E008	Update file error	Please update it again.
Update Error EE00 - EE64	Network error	Please update it again.

5.4 VOLTAGE MONITORING CIRCUIT

■ Voltage Monitoring

This unit monitors the voltages of the main power-supply units, using VDET signals.
The VDET signal level is middle (+0.70 V to +1.70 V) during normal operations. When the level falls outside the middle level, as shown in the table below, UCOM_A (IC1105) is notified of an error.

Product behavior when an error is generated

Upon reception of a VDET signal that informs of power failure, UCOM_A sets the Pcon signal to Low and stops the switching-system output from SW power. UCOM_A instructs that the STANDBY LED signal be sent so that the UTILITY button will flash to notify the user of a power failure.
Flashing intervals: 250 ms (lit for 125 ms/unlit for 125 ms)
As the switching-system output is stopped, the indications other than the UTILITY button are unlit and all the switches and VRs are disabled.

Diagnostic procedure

If any voltage is abnormal, that error will be detected by the voltage monitoring program after it is started after a usual start-up of the unit. Then the SW power output will be stopped. For this reason, power will be supplied for about 10 sec after start-up. Identify which power-supply IC is defective by turning the unit OFF then back ON while monitoring each voltage on an oscilloscope. Check the value of each voltage immediately before stopping power supply.
Note: Each time before turning the unit ON, make sure that each power-supply IC is not short-circuited to GND.

Circuit diagram of the voltage monitoring section

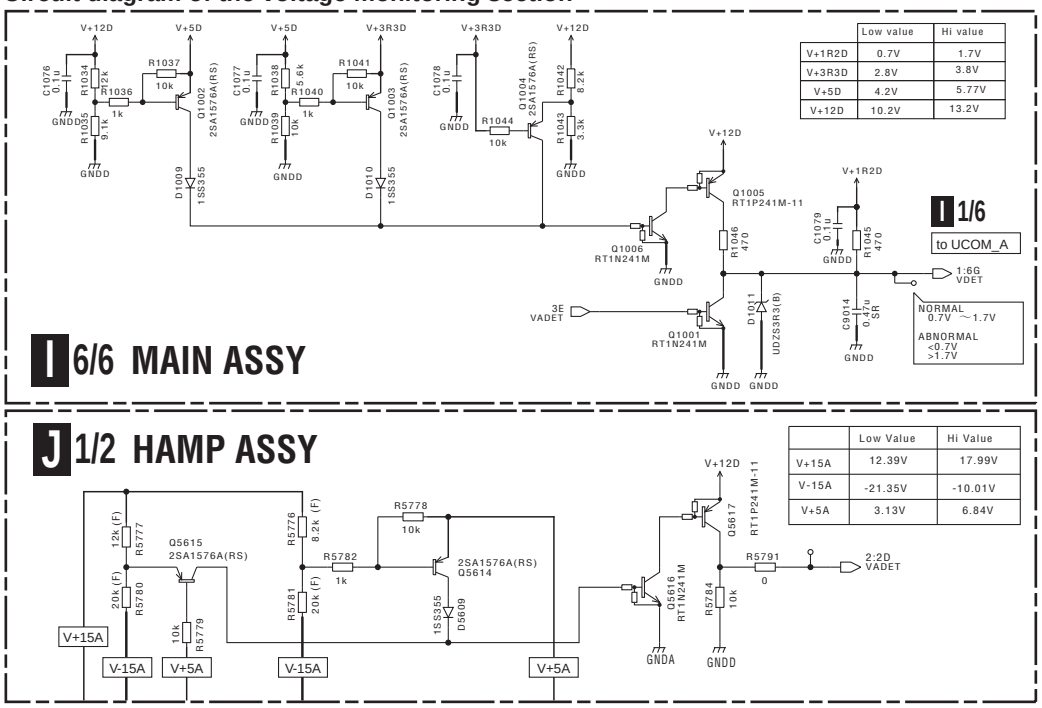


Table: List of voltage values for power monitoring and statuses of the voltage comparator transistors

State	Power	Voltage	Statuses of voltage comparator transistors										VDET Voltage
			Q1002	Q1003	Q1004	Q1006	Q1005	Q5614	Q5615	Q5616	Q5617	Q1001	
In normal operation			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Mid
When an error is generated	V+12D	< 10.2 V	**ON**	OFF	OFF	**ON**	**ON**	OFF	OFF	OFF	OFF	OFF	Hi
		> 13.2 V	OFF	OFF	**ON**	**ON**	**ON**	OFF	OFF	OFF	OFF	OFF	Hi
	V+5D	< 4.2 V	OFF	**ON**	OFF	**ON**	**ON**	OFF	OFF	OFF	OFF	OFF	Hi
		> 5.77 V	**ON**	OFF	OFF	**ON**	**ON**	OFF	OFF	OFF	OFF	OFF	HI
	V+3R3D	< 2.8 V	OFF	OFF	**ON**	**ON**	**ON**	OFF	OFF	OFF	OFF	OFF	HI
		> 3.8 V	OFF	**ON**	OFF	**ON**	**ON**	OFF	OFF	OFF	OFF	OFF	HI
	V+1R2D	< 1.08 V	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	< 1.08 V
		> 1.32 V	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	> 1.32 V
	V+15A	< 12.39 V	OFF	OFF	OFF	OFF	OFF	**ON**	OFF	**ON**	**ON**	**ON**	Low
		> 17.99 V	OFF	OFF	OFF	OFF	OFF	OFF	**ON**	**ON**	**ON**	**ON**	Low
	V-15A	< -21.35 V	OFF	OFF	OFF	OFF	OFF	**ON**	OFF	**ON**	**ON**	**ON**	Low
		> -10.01 V	OFF	OFF	OFF	OFF	OFF	OFF	**ON**	**ON**	**ON**	**ON**	Low
	V+5A	< 3.13 V	OFF	OFF	OFF	OFF	OFF	OFF	**ON**	**ON**	**ON**	**ON**	Low
		> 6.84 V	OFF	OFF	OFF	OFF	OFF	**ON**	OFF	**ON**	**ON**	**ON**	Low

5.5 CONNECTION CHECK WITH EACH INTERFACE

■ USB

[1. USB B connector]

Whether communication between the PC connected via the USB B connector and this unit is properly performed or not can be confirmed on the PC.

Note: Installation of the driver software is necessary.

■ Use Device Manager for checking.

If the PC and this unit are properly connected, the components of this unit are added in Device Manager (under Hardware) as devices.

If all components are properly displayed, the PC and this unit are properly communicating via the USB connector.

In a case of Windows XP:

Start, Control Panel, System, Hardware, then Device Manager

Devices to be added:

- Universal Serial Bus controllers
  - USB Composite Device
- Under “Sound, video and game controllers”
  - PIONEER DJM-2000NXS
  - USB Audio Device

A communication check may be easily performed if connection is made with Device Manager displayed on the PC screen.

■ LAN

[2. LINK]

You can check from this unit if the mixer can properly communicate via LAN.

Note: Use a Category 5 cable or a cable with higher specifications for connection.
Either a straight or cross LAN cable can be used when the unit is directly connected with the PC, but when the unit is connected with the PC via a hub, be sure to use a straight cable.

■ Check the LAN conditions, using Test mode of this unit:

① Start up the unit in Test mode.
② Open Page01: Device Test.
③ The IP Address and Subnet Mask are indicated at the bottom of the screen.
④ Check if the LAN is properly connected.

When the LAN is properly connected:

IP Address : xxx.xxx.xxx.xxx
Subnet Mask : yyy.yyy.yyy.yyy
x and y: Any numeric value
Four blocks of numerical string delimited by dots

When the LAN is not properly connected:

IP Address : can not get IP addr
Subnet Mask :

5.6 IC INFORMATION

■ DYW1822 (UPD78F1164AGF-GAS) (MAIN ASSY: IC1105)

UCOM_A

• Pin Function

No.	I/O Port Name	I/O	Signal Name	Pin Function
1	P60/SCL0	O	LINE_SEL1	CH1 LINE/PHONO input route switch
2	P61/SDA0	O	LINE_SEL2	CH2 LINE/PHONO input route switch
3	P62	O	LINE_SEL3	CH3 LINE/PHONO input route switch
4	P63	O	LINE_SEL4	CH4 LINE/PHONO input route switch
5	P31/TI03/TO03/INTP4	O	CLK_JUDGE	Operation clock right or wrong judgment signal
6	P64/xRD	O	SUB_RD	Bus control
7	P65/xWR0	O	SUB_WR0	Bus control
8	P66/xWR1	-	SUB_WR1	
9	P67/ASTB	O	SUB_ASTB	Bus control
10	P77/EX23/KR7/INTP11	I	DIGIANA_SW4	CH4 digital input switch
11	P76/EX22/KR6/INTP10	I	DIGIANA_SW3	CH3 digital input switch
12	P75/EX21/KR5/INTP9	I	DIGIANA_SW2	CH2 digital input switch
13	P74/EX20/KR4/INTP8	I	DIGIANA_SW1	CH1 digital input switch
14	P73/EX19/KR3	O	FS2+	CH2 fader start
15	P72/EX18/KR2	O	FS2-	CH2 fader stop
16	P71/EX17/KR1	O	FS3+	CH3 fader start
17	P70/EX16/KR0	O	FS3-	CH3 fader stop
18	P06/xWAIT	I	SH_CTRL	
19	P05/CLKOUT	O	CLKOUT	Bus control
20	EVSS1	-	EVSS1	
21	P80/EX0	O	SUB_EX0	Bus input/output 0
22	P81/EX1	O	SUB_EX1	Bus input/output 1
23	P82/EX2	O	SUB_EX2	Bus input/output 2
24	P83/EX3	O	SUB_EX3	Bus input/output 3
25	P84/EX4	O	SUB_EX4	Bus input/output 4
26	P85/EX5	O	SUB_EX5	Bus input/output 5
27	P86/EX6	O	SUB_EX6	Bus input/output 6
28	P87/EX7	O	SUB_EX7	Bus input/output 7
29	P30/INTP3/RTC1HZ	O	SH_RESET	SH UCOM reset
30	EVDD1	-	EVDD1	
31	P50/EX8	O	SUB_EX8	Bus input/output 8
32	P51/EX9	O	SUB_EX9	Bus input/output 9
33	P52/EX10	O	SUB_EX10	Bus input/output 10
34	P53/EX11	O	SUB_EX11	Bus input/output 11
35	P54/EX12	O	SUB_EX12	Bus input/output 12
36	P55/EX13	O	SUB_EX13	Bus input/output 13
37	P56/EX14	O	SUB_EX14	Bus input/output 14
38	P57/EX15	O	SUB_EX15	Bus input/output 15
39	P17/EX31/TI02/TO02	O	USB_RESET	USB reset
40	P16/EX30/TI01/TO01/INTP5	I	USB_BUSY	USB bussy
41	P15/EX29/RTCDIV/RTCCL	O	USB_ERR	USB error
42	P14/EX28/RxD3	I	USB_SI	Serial data input for USB
43	P13/EX27/TxD3	O	USB_SO	Serial data output for USB
44	P12/EX26/SO00/TxD0	O	MIDI_TXD	MIDI output
45	P11/EX25/Si00/RxD0	I	PRODUCTS_DEST	Model (DJM2000/DJM2000nexus) judgment input signal
46	P10/EX24/xSCK00	O	STANDBY_LED	SETTING/standby release key indicator
47	AVREF1	-	AVREF1	
48	P110/ANO0	O	VR_0	VR select (0,1,2,3)
49	P111/ANO1	O	VR_1	
50	AVREF0	-	AVREF0	

No.	I/O Port Name	I/O	Signal Name	Pin Function
51	AVSS	-	AVSS	
52	P157/ANI15	I	VR_FADER1	CH1 fader
53	P156/ANI14	I	VR_FADER2	CH2 fader
54	P155/ANI13	I	VR_FADER3	CH3 fader
55	P154/ANI12	I	VR_FADER4	CH4 fader
56	P153/ANI11	I	VR_FADER_CRS	Cross fader
57	P152/ANI10	I	VR_IN7	VR IC 4_1
58	P151/ANI9	I	VR_TRIM	Trim
59	P150/ANI8	I	VDET	Operation voltage monitoring
60	P27/ANI7	O	USB_SEL4	CH4 USB input switch
61	P26/ANI6	O	USB_SEL3	CH3 USB input switch
62	P25/ANI5	O	USB_SEL2	CH2 USB input switch
63	P24/ANI4	O	USB_SEL1	CH1 USB input switch
64	P23/ANI3	O	DIGIANA_SEL4	CH4 digital/analog switch
65	P22/ANI2	O	DIGIANA_SEL3	CH3 digital/analog switch
66	P21/ANI1	O	DIGIANA_SEL2	CH2 digital/analog switch
67	P20/ANI0	O	DIGIANA_SEL1	CH1 digital/analog switch
68	P130	O	SEL_IO_USB	USB input/output switch Route switch for 3in1out and 4in0out of CH4
69	P131/TI06/TO06	O	BL_ENABLE	Liquid crystalline brightness ON/OFF
70	P04/xSCK10/SCL1	I	BF_SW1	Beat effect ON/OFF switch
71	P03/SI10/RxD1/SDA1	O	SRC_48_96	SRC frequency switch
72	P02/SO10/TxD1	O	Pcon	Standby mode transition
73	P01/TO00	O	MUTE	Mute signal H: MUTE, L: MUTE Cancel
74	P00/TI00	I	RETERN_IN	RETURN output connection confirmation switch
75	P145/TI07/TO07	O	DIMMER	Liquid crystalline dimmer output
76	P144/SO20/TxD2	I	ATT1	Attenuator 1
77	P143/SI20/RxD2/SDA2	I	ATT2	Attenuator 2
78	P142/xSCK20/SCL2	O	NEC_B_BUSY	NEC B control signal (communication permission signal for NEC B)
79	P141/PCLBUZ1/INTP7	I	NEC_B_INT	Notice during the FPGA access of NEC B, external interrupt generation signal
80	P140/PCLBUZ0/INTP6	I	STANDBY	Standby cancellation interrupt outside interrupt terminal
81	P120/INTP0/EXLVI	O	SRCD_RESET	SRC (for DSP) reset
82	P47/INTP2	I	SRCU_RESET	SRC (for USB) reset
83	P46/INTP1/TI05/TO05	I	DITD_CS	DIT chip select
84	P45/SO01	I	DIT_TxD	Sync serial data output for DIT
85	P44/SI01	I	DIT_RxD	Sync serial data input for DIT
86	P43/xSCK01	O	DIT_SCK	Sync serial clock output for DIT
87	P42/TI04/TO04	I	BF_SW2	Mix/Remix effect ON/OFF switch
88	P41/TOOL1	O	TOOL1	Clock output for debugger
89	P40/TOOL0	O	TOOL0	Flash memory programmer, Data input/output for debugger
90	xRESET	I	MAIN_CPU_RST	Reset cancellation of this CPU
91	P124/XT2	I	SUB_CLOCK	for sub system clock
92	P123/XT1	I	SUB_CLOCK	for sub system clock
93	FLMD0	-	FLMD0	Draw flash memory programming mode
94	P122/X2/EXCLK	I	EXCLK	External clock input terminal for main system clock
95	P121/X1	-	-	
96	REGC	-	REGC	
97	VSS	-	VSS	
98	EVSS0	-	EVSS0	
99	VDD	-	VDD	
100	EVDD0	-	EVDD0	

DYW1823 (UPD78F1162AGF-GAS-K) (PNLB ASSY: IC750)

UCOM_B

• Pin Function

No.	I/O Port Name	I/O	Signal Name	Pin Function
1	P60/SCL0	-	GNDD	Not used, to GND.
2	P61/SDA0	-	GNDD	Not used, to GND.
3	P62	-	GNDD	Not used, to GND.
4	P63	-	GNDD	Not used, to GND.
5	P31/TI03/TO03/INTP4	O	100k:pulldown	Operation clock right or wrong judgment signal
6	P64/RD	O	LED_GRID4	LED matrix grid selection signal 4
7	P65/WR0	O	LED_GRID5	LED matrix grid selection signal 5
8	P66/WR1	O	LED_GRID6	LED matrix grid selection signal 6
9	P67/ASTB	O	LED_GRID7	LED matrix grid selection signal 7
10	P77/EX23/KR7/INTP11	O	LED_SEG7	LED lighting signal 7
11	P76/EX22/KR6/INTP10	O	LED_SEG6	LED lighting signal 6
12	P75/EX21/KR5/INTP9	O	LED_SEG5	LED lighting signal 5
13	P74/EX20/KR4/INTP8	O	LED_SEG4	LED lighting signal 4
14	P73/EX19/KR3	O	LED_SEG3	LED lighting signal 3
15	P72/EX18/KR2	O	LED_SEG2	LED lighting signal 2
16	P71/EX17/KR1	O	LED_SEG1	LED lighting signal 1
17	P70/EX16/KR0	O	LED_SEG0	LED lighting signal 0
18	P06/WAIT	I	10k:pullup	Not used (pullup)
19	P05/CLKOUT	I	TAP_SW	Tap switch
20	EVSS1	G	GND	GND for port
21	P80/EX0	O	LED_SEG8	LED lighting signal 8
22	P81/EX1	O	LED_SEG9	LED lighting signal 9
23	P82/EX2	O	LED_SEG10	LED lighting signal 10
24	P83/EX3	O	LED_SEG11	LED lighting signal 11
25	P84/EX4	O	LED_SEG12	LED lighting signal 12
26	P85/EX5	O	LED_SEG13	LED lighting signal 13
27	P86/EX6	O	LED_SEG14	LED lighting signal 14
28	P87/EX7	O	LED_SEG15	LED lighting signal 15
29	P30/INTP3/RTC1HZ	O	LED_SEG16	LED lighting signal 16
30	EVDD1	V	V+3R3D	Power supply for port
31	P50/EX8	O	KEY_GRID0	Key matrix grid selection signal 0
32	P51/EX9	O	KEY_GRID1	Key matrix grid selection signal 1
33	P52/EX10	O	KEY_GRID2	Key matrix grid selection signal 2
34	P53/EX11	O	KEY_GRID3	Key matrix grid selection signal 3
35	P54/EX12	O	KEY_GRID4	Key matrix grid selection signal 4
36	P55/EX13	O	KEY_GRID5	Key matrix grid selection signal 5
37	P56/EX14	O	KEY_GRID6	Key matrix grid selection signal 6
38	P57/EX15	O	KEY_GRID7	Key matrix grid selection signal 7
39	P17/EX31TI02/TO02	I	KEY_SEG7	Key input signal 7
40	P16/EX30/TI01/TO01/INTP5	I	KEY_SEG6	Key input signal 6
41	P15/EX29/RTCDIV/RTCCL	I	KEY_SEG5	Key input signal 5
42	P14/EX28/RxD3	I	KEY_SEG4	Key input signal 4
43	P13/EX27/TxD3	I	KEY_SEG3	Key input signal 3
44	P12/EX26/SO00/TxD0	I	KEY_SEG2	Key input signal 2
45	P11/EX25/SI00/RxD0	I	KEY_SEG1	Key input signal 1
46	P10/EX24/SCK00	I	KEY_SEG0	Key input signal 0
47	AVREF1	V	V+3R3REF_B	Reference power supply of DAC
48	P110/ANO0	O	VRSEL_0_0	VR select (0,1,2,3) for IC7000, 7001
49	P111/ANO1	O	VRSEL_0_1	
50	AVREF0	V	V+3R3REF_B	Reference power supply of AD

No.	I/O Port Name	I/O	Signal Name	Pin Function
51	AVSS	G	GNDREF_B	Reference GND of AD/DA
52	P157/ANI15	I	VR_IN1	VR IC 1_1
53	P156/ANI14	I	VR_IN2	VR IC 1_2
54	P155/ANI13	I	VR_IN3	VR IC 2_1
55	P154/ANI12	I	VR_IN4	VR IC 2_2
56	P153/ANI11	I	VR_IN5	VR IC 3_1
57	P152/ANI10	I	VR_IN6	VR IC 3_2
58	P151/ANI9	-	GNDD	Not used, to GND.
59	P150/ANI8	-	GNDD	Not used, to GND.
60	P27/ANI7	-	100k:pulldown	Not used (pulldown)
61	P26/ANI6	-	100k:pulldown	Not used (pulldown)
62	P25/ANI5	I	CFX6_SW	CFX6 key input
63	P24/ANI4	I	CFX5_SW	CFX5 key input
64	P23/ANI3	I	CFX4_SW	CFX4 key input
65	P22/ANI2	I	CFX3_SW	CFX3 key input
66	P21/ANI1	I	CFX2_SW	CFX2 key input
67	P20/ANI0	I	CFX1_SW	CFX1 key input
68	P130	O	uCOMB_INT	interrupt request signal to Sub UCOM A
69	P131/TI06/TO06	I	KEY_SEG8	for key expansion
70	P04/SCK10/SCL10	O	100k:pulldown	Not used (pulldown)
71	P03/SI10/RxD1/SDA10	O	100k:pulldown	Not used (pulldown)
72	P02/SO10/TxD1	O	100k:pulldown	Not used (pulldown)
73	P01/TO00	O	VRSEL_1_1	VR select (0,1,2,3) for IC7503
74	P00/TI00	O	VRSEL_1_0	
75	P145/TI07/TO07	-	GNDD	Not used, to GND.
76	P144/SO20/TxD2	-	GNDD	Not used, to GND.
77	P143/SI20/RxD2/SDA20	O	LED_GRID3	LED matrix grid selection signal 3
78	P142/SCK20/SCL20	O	LED_GRID2	LED matrix grid selection signal 2
79	P141/PCLBUZ1/INTP7	O	LED_GRID1	LED matrix grid selection signal 1
80	P140/PCLBUZ0/INTP6	O	LED_GRID0	LED matrix grid selection signal 0
81	P120/INTP0/EXLVI	O	uCOMB_CTRL	communication start signal to FPGA
82	P47/INTP2	O	LED_SEG17	LED lighting signal 17
83	P46/INTP1/TI05/TO05	-	100k:pulldown	Not used (pulldown)
84	P45/SO01	O	uCOMB_TxD	Data transmission to FPGA
85	P44/SI01	I	uCOMB_RxD	Data reception from FPGA
86	P43/SCK01	O	uCOMB_SCK	Data transmission and reception clock to FPGA
87	P42/TI04/TO04	I	uCOMB_BUSY	UCOM B control signal (Communication permission signal from UCOM A)
88	P41/TOOL1	O	CLK_IN	Clock output for debugger
89	P40/TOOL0	O	RxD	Flash memory programmer/Data input and output for debugger
90	RESET	I	uCOMB_RESET	Reset cancel from UCOM_A
91	P124/XT2	I	TIME_1	Time encoder
92	P123/XT1	I	TIME_0	
93	FLMD0	I	FLMDO	Draw a flash memory programming mode
94	P122/X2/EXCLK	O	X2	X1 (Crystal / ceramic) oscillation
95	P121/X1	I	X1	X1 (Crystal / ceramic) oscillation
96	REGC	V	REGC	Regulator output for internal operation. Be connected to Vss through a condense
97	VSS	G	GNDD	GND
98	EVSS0	G	GNDD	GND of port
99	VDD	V	V+3R3D	Power supply
100	EVDD0	V	V+3R3D	Power supply of port

R5S77641N300BG (R5S77641N300BG-K) (MAIN ASSY: IC1601)

UCOM_C

• Pin Function

No.	I/O Port Name	I/O	Signal Name	Pin Function
A1	VSS		GND	
A2	VSS		GND	
A3	VSS		GND	
A4	VDDA_USB		NC	
A5	VDD_USB		NC	
A6	DP		NC	
A7	DM		NC	
A8	VDDQ_USB		NC	
A9	VDDQ		V+3R3D_SH	
A10	D52/IDED9		NC	
A11	D50/IDED11		NC	
A12	D48/IDED13		NC	
A13	WE1#/DQM64LU		NC	
A14	WE0#/DQM64LL	O	CPU_WE0	Bus control
A15	D38/IDED15		NC	
A16	D36/IDEA2		NC	
A17	D34/PF5		NC	
A18	D32/PF7	I	DSP1_CTRL	DSP bus clock stable waiting signal
A19	A02	O	CPU_ADRS2	Bus control
A20	A03	O	CPU_ADRS3	Bus control
A21	CS1#	O	CPU_CS1	Bus control
A22	VSS		GND	
B1	XIN		NC	
B2	VSS		GND	
B3	VSS		GND	
B4	VSSA_USB		GND	
B5	VSS_USB		GND	
B6	VBUS		NC	
B7	VSS		GND	
B8	VSSQ_USB		GND	
B9	VSS		GND	
B10	D53/IDED8		NC	
B11	D51/IDED10		NC	
B12	D49/IDED12		NC	
B13	WE3#/DQM64UU		NC	
B14	WE2#/DQM64UL		NC	
B15	D39/IDED14		NC	
B16	D37/IDEA1		NC	
B17	D35/IDEA0		NC	
B18	D33/PF6	I	CPU_FP6	Bus control
B19	A01	O	CPU_ADRS1	Bus control
B20	CS2#		NC	
B21	VSS		GND	
B22	CLK-OUT	O	CPU_CLK_SDL,CPU_CLK_SDH	Clock
C1	XOUT		NC	
C2	VSS		GND	
C3	VDDQ		V+3R3D_SH	
C4	VSS		GND	
C5	VSS		GND	
C6	VSS		GND	
C7	VSS		GND	
C8	VSS		GND	
C9	VSS		GND	
C10	D54/IDERST#		NC	
C11	D56/IDED6		NC	
C12	D58/IDED4		NC	
C13	D60/IDED2		NC	
C14	D62/IDED0		NC	
C15	D40/IDEIOWR#		NC	
C16	D42/IDEIORD#		NC	
C17	D44/IDEINT		NC	
C18	D46/IDECS1#		NC	
C19	A00	O	CPU_ADRS0	Bus control
C20	VDDQ		V+3R3D_SH	

No.	I/O Port Name	I/O	Signal Name	Pin Function
C21	RAS#	O	CPU_RAS	Bus control
C22	CKE	O	CPU_CKE	Bus control
D1	EXOUT/PF4/IDECS1_M#	O	CPU_EXOUT	Ethernet controller (EtherC)
D2	LNKSTA/PF3/IDECS0_M#	I	CPU_LNKSTA	Ethernet controller (EtherC)
D3	WOL/PF2/IDEA0_M	O	CPU_WOL	Ethernet controller (EtherC)
D4	VDDQ		V+3R3D_SH	
D5	VSS		GND	
D6	UG12		GND(NC)	
D7	VSSQA_USB		GND	
D8	VSS		GND	
D9	VSS		GND	
D10	D55/DIRECTION		NC	
D11	D57/IDED7		NC	
D12	D59/IDED5		NC	
D13	D61/IDED3		NC	
D14	D63/IDED1		NC	
D15	D41/IODREQ		NC	
D16	D43/IDEIORDY		NC	
D17	D45/IODACK#		NC	
D18	D47/IDECS0#		NC	
D19	VDDQ		V+3R3D_SH	
D20	CAS#	O	CPU_CAS	Bus control
D21	R/W#	O	CPU_R/W	Bus control
D22	A04	O	CPU_ADRS4	Bus control
E1	COL/PE7/IDEA2_M	I	CPU_COL	Ethernet controller (EtherC)
E2	CRS/PD7/IDEA1_M	I	CPU_CRS	Ethernet controller (EtherC)
E3	SSISCK2/PC3	O	CH1SRC_RESET	SRC reset signal
E4	VSS		GND	
E5	VDDQ		V+3R3D_SH	
E6	UV12		NC	
E7	VDDQA_USB		NC	
E8	REFRIN		REFRIN(GND)	
E9	VDDQ		V+3R3D_SH	
E10	VDDQ		V+3R3D_SH	
E11	VSS		GND	
E12	VDD		V+1R2D_SH	
E13	VSS		GND	
E14	VSS		GND	
E15	VSS		GND	
E16	VSS		GND	
E17	VDDQ		V+3R3D_SH	
E18	VDDQ		V+3R3D_SH	
E19	A07	O	CPU_ADRS7	Bus control
E20	A06	O	CPU_ADRS6	Bus control
E21	A05	O	CPU_ADRS5	Bus control
E22	A10	O	CPU_ADRS10	Bus control
F1	MII_TXD2/AUDIO_CLK5/IDEINT_M/PD1	O	CPU_MII_TXD2	Ethernet controller (EtherC)
F2	MII_TXD3/SSIDATA5/IODACK_M#/PD0	O	CPU_MII_TXD3	Ethernet controller (EtherC)
F3	AUDIO_CLK2/PC5	O	CH3SRC_RESET	SRC reset signal
F4	SSIDATA2/PC2	O	CH2SRC_RESET	SRC reset signal
F5	VDDQ		V+3R3D_SH	
F18	VDDQ		V+3R3D_SH	
F19	A09	O	CPU_ADRS9	Bus control
F20	A08	O	CPU_ADRS8	Bus control
F21	A14	O	CPU_ADRS14	Bus control
F22	A13	O	CPU_ADRS13	Bus control
G1	MII_TXD0/SSISCK5/IDEIORDY_M/PD3	O	CPU_MII_TXD0	Ethernet controller (EtherC)
G2	MII_TXD1/SSIWS5/IDEIORD_M#/PD2	O	CPU_MII_TXD1	Ethernet controller (EtherC)
G3	TX_ER/PD6/IDEIOWR_M#	I	CPU_TX_BR	For link chip distinction
G4	SSIWS2/PC4	O	CH4SRC_RESET	SRC reset signal
G5	VSS		GND	
G18	VDDQ		V+3R3D_SH	
G19	A12	O	CPU_ADRS12	Bus control
G20	A11	O	CPU_ADRS11	Bus control
G21	A16	O	CPU_ADRS16	Bus control
G22	A15	O	CPU_ADRS15	Bus control
H1	TX_CLK/PD5/IDED15_M	I	CPU_TX_CLK	Ethernet controller (EtherC)
H2	TX_EN/PD4/IDED0_M	O	CPU_TX_EN	Ethernet controller (EtherC)

No.	I/O Port Name	I/O	Signal Name	Pin Function
H3	RX_ER/PE6/IODREQ_M	I	CPU_RX_ER	Ethernet controller (EtherC)
H4	MPMD	I	CPU_MPMD	For debugger
H5	VDDQ		V+3R3D_SH	
H8	VDD		V+1R2D_SH	
H9	VDD		V+1R2D_SH	
H10	VDD		V+1R2D_SH	
H11	VDD		V+1R2D_SH	
H12	VDD		V+1R2D_SH	
H13	VDD		V+1R2D_SH	
H14	VDD		V+1R2D_SH	
H15	VDD		V+1R2D_SH	
H18	VSS		GND	
H19	D25	I/O	CPU_DATA25	Bus control
H20	D24	I/O	CPU_DATA24	Bus control
H21	D23	I/O	CPU_DATA23	Bus control
H22	D22	I/O	CPU_DATA22	Bus control
J1	RX_DV/PE4/IDED14_M	I	CPU_RX_DV	Ethernet controller (EtherC)
J2	RX_CLK/PE5/IDED1_M	I	CPU_RX_CLK	Ethernet controller (EtherC)
J3	SSIWS3/PH6	O	LRCK_CLK_LANOUT	Serial sound interface (SSI)
J4	SSIDATA3/PH4	I	ADAT_LANSRCOUT	Serial sound interface (SSI)
J5	VDDQ		V+3R3D_SH	
J8	VDD		V+1R2D_SH	
J9	VSS		GND	
J10	VSS		GND	
J11	VSS		GND	
J12	VSS		GND	
J13	VSS		GND	
J14	VSS		GND	
J15	VDD		V+1R2D_SH	
J18	VSS		GND	
J19	D27	I/O	CPU_DATA27	Bus control
J20	D26	I/O	CPU_DATA26	Bus control
J21	D21	I/O	CPU_DATA21	Bus control
J22	D20	I/O	CPU_DATA20	Bus control
K1	MII_RXD1/SSISCK4/IDED13_M/PE2	I	CPU_MII_RXD1	Ethernet controller (EtherC)
K2	MII_RXD0/SSIWS4/IDED2_M/PE3	I	CPU_MII_RXD0	Ethernet controller (EtherC)
K3	SSISCK3/PH5	O	BIT_CLK_LANOUT	Serial sound interface (SSI)
K4	IRQ0/DTEND1#		NC(V+3R3D_SH)	
K5	VSS		GND	
K8	VDD		V+1R2D_SH	
K9	VSS		GND	
K10	VSS		GND	
K11	VSS		GND	
K12	VSS		GND	
K13	VSS		GND	
K14	VSS		GND	
K15	VDD		V+1R2D_SH	
K18	VSS		GND	
K19	D29	I/O	CPU_DATA29	Bus control
K20	D28	I/O	CPU_DATA28	Bus control
K21	D19	I/O	CPU_DATA19	Bus control
K22	D18	I/O	CPU_DATA18	Bus control
L1	MII_RXD3/AUDIO_CLK4/IDED12_M/PE0	I	CPU_MII_RXD3	Ethernet controller (EtherC)
L2	MII_RXD2/SSIDATA4/IDED3_M/PE1	I	CPU_MII_RXD2	Ethernet controller (EtherC)
L3	AUDIO_CLK3/PH7	I	24M_CLK_LAN	Bus control
L4	IRQOUT#/DREQ1#		NC	
L5	VSS		GND	
L8	VDD		V+1R2D_SH	
L9	VSS		GND	
L10	VSS		GND	
L11	VSS		GND	
L12	VSS		GND	
L13	VSS		GND	
L14	VSS		GND	
L15	VDD		V+1R2D_SH	
L18	VDDQ		V+3R3D_SH	
L19	D31	I/O	CPU_DATA31	Bus control
L20	D30	I/O	CPU_DATA30	Bus control

No.	I/O Port Name	I/O	Signal Name	Pin Function
L21	D17	I/O	CPU_DATA17	Bus control
L22	D16	I/O	CPU_DATA16	Bus control
M1	MDIO/PF1/IDED11_M	I/O	CPU_MDIO	Ethernet controller (EtherC)
M2	MDC/PF0/IDED4_M	O	CPU_MDC	Ethernet controller (EtherC)
M3	SSIWS0	O	LRCK_CLK_LANIN	Serial sound interface (SSI)
M4	STATUS1/RTS2#/PA7	O	SH_CTRL	DPRAM (@FPGA) access permission signal
M5	VDDQ		V+3R3D_SH	
M8	VDD		V+1R2D_SH	
M9	VSS		GND	
M10	VSS		GND	
M11	VSS		GND	
M12	VSS		GND	
M13	VSS		GND	
M14	VSS		GND	
M15	VDD		V+1R2D_SH	
M18	VDDQ		V+3R3D_SH	
M19	DQMUU	O	CPU_UUDQM	Bus control
M20	DQMLU	O	CPU_LUDQM	Bus control
M21	DQMUL	O	CPU_ULDQM	Bus control
M22	DQMLL	O	CPU_LLDQM	Bus control
N1	AUDIO_CLK0/PC7	I	24M_CLK_LAN	Serial sound interface (SSI)
N2	SSISCK0	O	BIT_CLK_LANIN	Serial sound interface (SSI)
N3	SSIDATA0	O	ADAT_LANIN	Serial sound interface (SSI)
N4	STATUS0/CTS2#/PA6	I	TP_INT	Touch panel interrupt signal
N5	VDDQ		V+3R3D_SH	
N8	VDD		V+1R2D_SH	
N9	VSS		GND	
N10	VSS		GND	
N11	VSS		GND	
N12	VSS		GND	
N13	VSS		GND	
N14	VSS		GND	
N15	VDD		V+1R2D_SH	
N18	VDDQ		V+3R3D_SH	
N19	D09	I/O	CPU_DATA9	Bus control
N20	D08	I/O	CPU_DATA8	Bus control
N21	D07	I/O	CPU_DATA7	Bus control
N22	D06	I/O	CPU_DATA6	Bus control
P1	AUDIO_CLK1/PC6	O	LCD_SHUT	Liquid crystalline control
P2	SSISCK1		NC(V+3R3D_SH)	
P3	SSIWS1		NC(V+3R3D_SH)	
P4	FRE#/PA4	O	TP_RESET	Touch panel IC reset signal
P5	VSS		GND	
P8	VDD		V+1R2D_SH	
P9	VSS		GND	
P10	VSS		GND	
P11	VSS		GND	
P12	VSS		GND	
P13	VSS		GND	
P14	VSS		GND	
P15	VDD		V+1R2D_SH	
P18	VSS		GND	
P19	D11	I/O	CPU_DATA11	Bus control
P20	D10	I/O	CPU_DATA10	Bus control
P21	D05	I/O	CPU_DATA5	Bus control
P22	D04	I/O	CPU_DATA4	Bus control
R1	PJ7/IDED10_M/SD_CLK	O	SUBIC_RESET	SUBIC reset signal
R2	PJ6/IDED5_M/SD_CMD	O	ETHER_RESET	Ethernet control IC reset signal
R3	SSIDATA1		NC(V+3R3D_SH)	
R4	FCE#/PA5		NC	
R5	VDD		V+1R2D_SH	
R8	VDD		V+1R2D_SH	
R9	VDD		V+1R2D_SH	
R10	VDD		V+1R2D_SH	
R11	VDD		V+1R2D_SH	
R12	VDD		V+1R2D_SH	
R13	VDD		V+1R2D_SH	
R14	VDD		V+1R2D_SH	

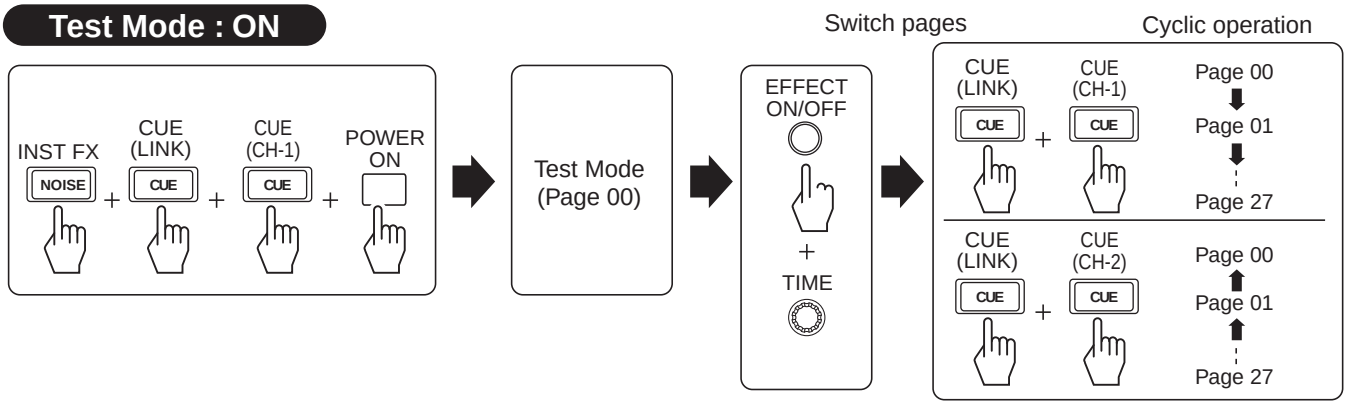
No.	I/O Port Name	I/O	Signal Name	Pin Function
R15	VDD		V+1R2D_SH	
R18	VSS		GND	
R19	D13	I/O	CPU_DATA13	Bus control
R20	D12	I/O	CPU_DATA12	Bus control
R21	D03	I/O	CPU_DATA3	Bus control
R22	D02	I/O	CPU_DATA2	Bus control
T1	PJ5/IDED9_M/SD_DATA1	O	DSP1_RESET	DSP1 reset signal
T2	PJ4/IDED6_M/SD_DATA0	O	DSP2_RESET	DSP2 reset signal
T3	FWE#/PA3	O	FLASH1_RESET	DSP external flash reset signal
T4	FALE/PC0	O	SRCD_RESET	SRC reset signal
T5	VSS		GND	
T18	VSS		GND	
T19	D15	I/O	CPU_DATA15	Bus control
T20	D14	I/O	CPU_DATA14	Bus control
T21	D01	I/O	CPU_DATA1	Bus control
T22	D00	I/O	CPU_DATA0	Bus control
U1	PJ2/IDED8_M/SD_DATA2	I	FPGA_xINIT	FPGA control signal
U2	PJ3/IDED7_M/SD_DATA3	O	FPGA_RESET	FPGA reset signal
U3	MODE7/FD6	I	CPU_MODE7	Operation mode control signal
U4	MODE8/FD7	I	CPU_MODE8	Operation mode control signal
U5	VDDQ		V+3R3D_SH	
U18	VDDQ		V+3R3D_SH	
U19	A17	O	CPU_ADRS17	Bus control
U20	A18/PB0	O	CPU_ADRS18	Bus control
U21	A19/PB1	O	CPU_ADRS19	Bus control
U22	A20/PB2	O	CPU_ADRS20	Bus control
V1	PJ1/IDERST_M#/SD_CD	I	FPGA_DONE	Operation mode control signal
V2	PJ0/DIRECTION_M/SD_WP	O	FPGA_xPGM	FPGA control signal
V3	MODE5/FD5	I	CPU_MODE5	Operation mode control signal
V4	MODE4/FD4	I	CPU_MODE4	Operation mode control signal
V5	VDDQ		V+3R3D_SH	
V6	VSS		GND	
V7	VSS		GND	
V8	VDDQ		V+3R3D_SH	
V9	VDDQ		V+3R3D_SH	
V10	VDDQ		V+3R3D_SH	
V11	VDD		V+1R2D_SH	
V12	VDD		V+1R2D_SH	
V13	VDDQ		V+3R3D_SH	
V14	VDDQ		V+3R3D_SH	
V15	VSS		GND	
V16	VSS		GND	
V17	VDDQ		V+3R3D_SH	
V18	VDDQ		V+3R3D_SH	
V19	A25/PB7/DREQ0#/RTS0#		NC(V+3R3D_SH)	For start confirmation
V20	A21/PB3	O	CPU_ADRS21	Bus control
V21	A23/PB5/DTEND0#/RTS1#	O	CPU_ADRS23	Bus control
V22	A22/PB4/CTS1#	O	CPU_ADRS22	Bus control
W1	MODE3/FD3	I	CPU_MODE3	Operation mode control signal
W2	MODE2/FD2	I	CPU_MODE2	Operation mode control signal
W3	MODE1/FD1	I	CPU_MODE1	Operation mode control signal
W4	VDDQ		V+3R3D_SH	
W5	WDTOVF#/IRQ1/AUDCK/DACK1#		CPU_AUDCK	For debugger
W6	TDO		CPU_TDO	For debugger
W7	TRST#		CPU_TRST	For debugger
W8	VSS		GND	
W9	VSS		GND	
W10	VSS		GND	
W11	VSS		GND	
W12	VSS		GND	
W13	VSS		GND	
W14	VSS		GND	
W15	VSS		GND	
W16	VSS		GND	
W17	CS3#	O	CPU_CS3	Bus control
W18	CS0#	O	CPU_CS0	Bus control
W19	VSS		GND	
W20	VSS		GND	

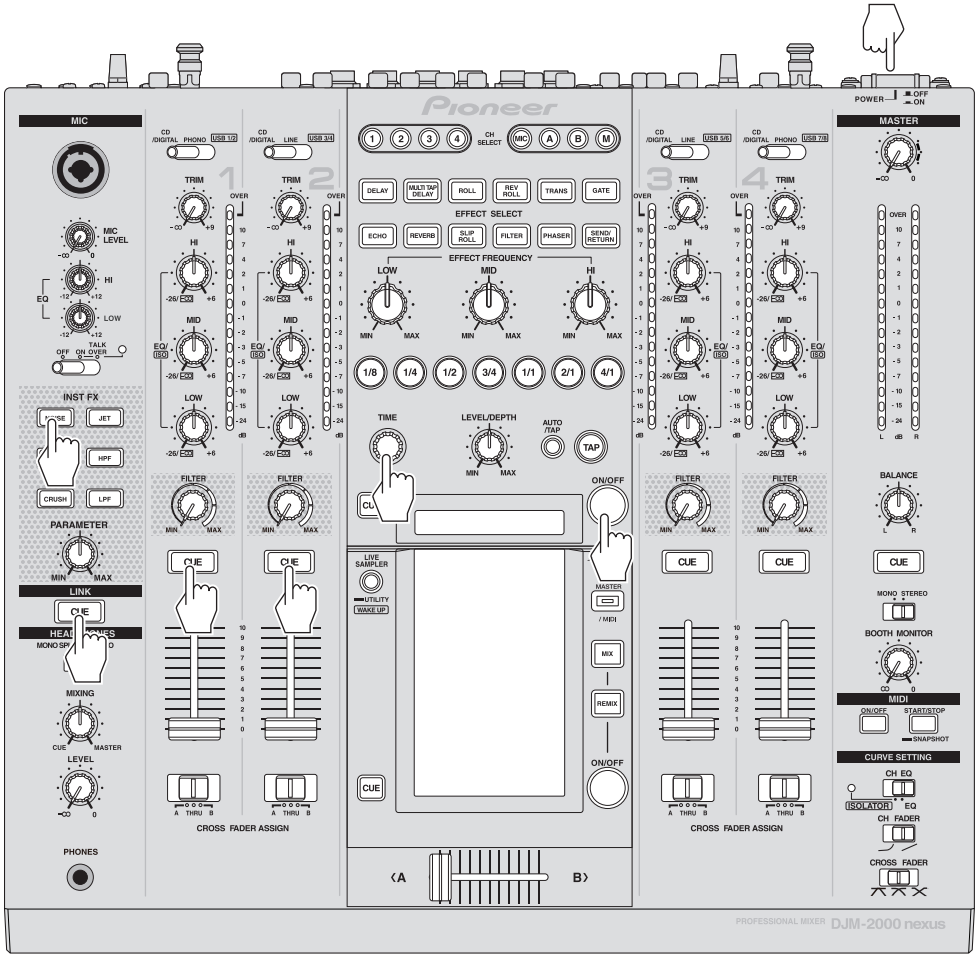
No.	I/O Port Name	I/O	Signal Name	Pin Function
W21	ASEBRKAK#/BRKACK/TCLK/PC1		CPU_EMU_BRK	For debugger
W22	A24/PB6/DACK0#/CTS0#		NC	
Y1	TXD2/PA2	O	SH_TXD	Sync serial data output for FPGA download
Y2	RXD2/PA1		NC(V+3R3D)	
Y3	VDDQ		V+3R3D_SH	
Y4	RXD1/AUDATA2		CPU_AUDATA2	For debugger
Y5	RXD0/AUDATA0		CPU_AUDATA0	For debugger
Y6	TMS		CPU_TMS	For debugger
Y7	VSS		GND	
Y8	LCD_VEPWC/DR5/PH0	O	DR5	Display controller (VDC2)
Y9	LCD_VCPWC/DR4/PH1	O	DR4	Display controller (VDC2)
Y10	LCD_DATA15/DR3/PG7	O	DR3	Display controller (VDC2)
Y11	LCD_DATA12/DR0/PG4	O	DR0	Display controller (VDC2)
Y12	LCD_DATA9/DG3/PG1	O	DG3	Display controller (VDC2)
Y13	LCD_DATA6/DG0/BT_DATA6/PI3	O	DG0	Display controller (VDC2)
Y14	LCD_DATA3/DB3/BT_DATA3	O	DB3	Display controller (VDC2)
Y15	LCD_CL2/DE_V/CLS/PH3		NC	For start confirmation
Y16	PI0/COM/CDE		NC(V+3R3D_SH)	
Y17	RD#	O	CPU_RD	Bus control
Y18	VSS		GND	
Y19	BREQ#		NC(V+3R3D_SH)	
Y20	BS#	I	CPU_BS	Bus control
Y21	VSS		GND	
Y22	PRESET#	I	SH_RESET	SH reset signal
AA1	SCK2/PA0	O	SH_SCK	Sync serial data output for FPGA download
AA2	VDDQ		V+3R3D_SH	
AA3	MODE0/FD0	I	MODE0	Operation mode control signal
AA4	TXD1/AUDATA3		CPU_AUDATA3	For debugger
AA5	TXD0/AUDATA1		CPU_AUDATA1	For debugger
AA6	TDI		CPU_TDI	For debugger
AA7	VSS		GND	
AA8	LCD_FLM/VSYNC/SPS/EX_VSYNC/BT_VSYNC	O	VSYNC	Display controller (VDC2)
AA9	LCD_M_DISP/DE_H/DE_C/BT_DE_C		NC	
AA10	LCD_DATA14/DR2/PG6	O	DR2	Display controller (VDC2)
AA11	LCD_DATA11/DG5/PG3	O	DG5	Display controller (VDC2)
AA12	LCD_DATA8/DG2/PG0	O	DG2	Display controller (VDC2)
AA13	LCD_DATA5/DB5/BT_DATA5/PI2	O	DB5	Display controller (VDC2)
AA14	LCD_DATA2/DB2/BT_DATA2	O	DB2	Display controller (VDC2)
AA15	LCD_DATA0/DB0/BT_DATA0	O	DB0	Display controller (VDC2)
AA16	VSS		GND	
AA17	NMI		NMI(V+3R3D_SH)	
AA18	BACK#		NC(V+3R3D_SH)	
AA19	VSS_PLL2		GND	
AA20	VSS_PLL1		GND	
AA21	VSS		GND	
AA22	VSS		GND	
AB1	VDDQ		V+3R3D_SH	
AB2	SCL	O	SH_SCL	I2C communication clock output for touch panel
AB3	SDA	O	SH_SDA	I2C communication data output for touch panel
AB4	SCK1/FR/B#		NC(V+3R3D_SH)	
AB5	SCK0/AUDSYNC/FCLE		CPU_AUDSYNC	For debugger
AB6	TCK		TCK	For debugger
AB7	VSS		GND	
AB8	LCD_CL1/HSYNC/SPL/EX_HSYNC/BT_HSYNC	O	HSYNC	Display controller (VDC2)
AB9	LCD_CLK/DCLKIN	I	DCLKIN	Display controller (VDC2)
AB10	LCD_DATA13/DR1/PG5	O	DR1	Display controller (VDC2)
AB11	LCD_DATA10/DG4/PG2	O	DG4	Display controller (VDC2)
AB12	LCD_DATA7/DG1/BT_DATA7/PI4	O	DG1	Display controller (VDC2)
AB13	LCD_DATA4/DB4/BT_DATA4/PI1	O	DB4	Display controller (VDC2)
AB14	LCD_DATA1/DB1/BT_DATA1	O	DB1	Display controller (VDC2)
AB15	LCD_DON/DCLKOUT/PH2	O	DCLKOUT	Display controller (VDC2)
AB16	VSS		GND	
AB17	RDY#		NC(GND)	
AB18	VSS		GND	
AB19	VDD_PLL2		V+1R2D_SH	
AB20	VDD_PLL1		V+1R2D_SH	
AB21	EXTAL	I	24M_CLK_SH	Clock
AB22	XTAL		NC	

6. SERVICE MODE
6.1 TEST MODE

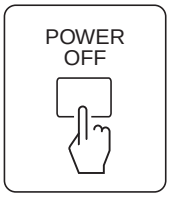
1. How to Enter and Cancel the Test Mode

Test Mode : ON





Test Mode: CANCEL



2. Types of Confirmation Mode

Page	Item Name	Mode Contents	Purpose
00	VERSION	Mode for displaying the version of the firmware.	Version confirmation of the firmware.
01	Device Test	Mode for displaying the device information.	Confirmation of the LAN connection state.
02	LED ALL ON	Mode for lighting all the LEDs and FL segments.	Operation check of the LED and FL.
03	LED ALL OFF	Mode for extinguishing all the LEDs and FL segments.	
04	KEY TEST(1)	Mode for indicating a pressed key.	Operation check of each key.
05	KEY TEST(2)	Mode for indicating a pressed key.	
06	KEY TEST(3)	Mode for indicating a pressed key.	
07	SWITCH TEST(1)	Mode for indicating the setting position of a switch.	Operation check of each switch.
08	SWITCH TEST(2)	Mode for indicating the setting position of a switch.	
09	VOLUME TEST (1)	Mode for indicating the level of a volume control.	Operation check of each volume.
10	VOLUME TEST (2)	Mode for indicating the level of a volume control.	
11	VOLUME TEST (3)	Mode for indicating the level of a volume control.	
12	VOLUME TEST (4)	Mode for indicating the level of a volume control.	
13	METER TEST	Mode for confirming lighting of the meter LEDs, one LED at a time.	Operation check of meter LED.
14	TOUCH PANEL TEST(1)	Calibration.	Calibration adjustment of the touch panel.
15	TOUCH PANEL TEST(2)	Mode for displaying the coordinate positions for the touch panel.	Operation check of the touch panel.
16	MAIN PANEL TEST	Confirmation of the display colors for the main panel (color bars).	Operation check of the LCD.
17	SUB PANEL TEST	Confirmation of the display colors for the subpanel (color bars).	
18	MAIN PANEL TEST	Confirmation of defective pixels (white) on the main panel.	
19	SUB PANEL TEST	Confirmation of defective pixels (white) on the subpanel.	
20	MAIN PANEL TEST	Confirmation of defective pixels (black) on the main panel.	
21	SUB PANEL TEST	Confirmation of defective pixels (black) on the subpanel.	
22	MAIN PANEL TEST	Confirmation of defective pixels (red) on the main panel.	
23	SUB PANEL TEST	Confirmation of defective pixels (red) on the subpanel.	
24	MAIN PANEL TEST	Confirmation of defective pixels (green) on the main panel.	
25	SUB PANEL TEST	Confirmation of defective pixels (green) on the subpanel.	
26	MAIN PANEL TEST	Confirmation of defective pixels (blue) on the main panel.	
27	SUB PANEL TEST	Confirmation of defective pixels (blue) on the subpanel.	

● Page 00 : Version

```
<    DJM-2000 Test Mode    >
-------------------------------
-------------------------------
Page00:Version

      MICONA    :  xx.xxxx
      MICONB    :  xx.xxxx
      MICONC    :  xx.xxxx
      FPGA      :  xx.xxxx
      DSP1      :  xx.xxxx
      DSP2      :  xx.xxxx
      DSPD      :  xx.xxxx
      USB       :  xx.xxxx
      BOOT      :  xx.xxxx
      SYSTEM    :  xx.xxxx
```

● Page 01 : Device Test

```
<    DJM-2000 Test Mode    >
-------------------------------
-------------------------------
Page01:Device Test

    Touch Panel    :  OK  NG

    LAN    CH1  :  CHK  OK  NG
           CH2  :  CHK  OK  NG
           CH3  :  CHK  OK  NG
           CH4  :  CHK  OK  NG
           PC1  :  CHK  OK  NG
           PC2  :  CHK  OK  NG

    MAC Address
      :00-07-E9-4D-C2-CF

    IP Address
      :255.255.255.255

    Subnet Mask
      :255.255.255.255

    SDRAM  DSP1  :  CHK  OK  NG
           DSP2  :  CHK  OK  NG
```

You can check the status of a device.
Touch Panel: Communication status between the UCOM_C and the Touch Panel IC is displayed:
OK: Communication established, NG: Communication not established
LAN: The communication status between each LAN port and the connected device is displayed. For details on usage, see “5.4 CONNECTION CHECK WITH EACH INTERFACE.”

● Page 02 : LED All On

```
<    DJM-2000 Test Mode    >
-------------------------------
-------------------------------
Page02:LED All On
```

● Page 03 : LED All Off

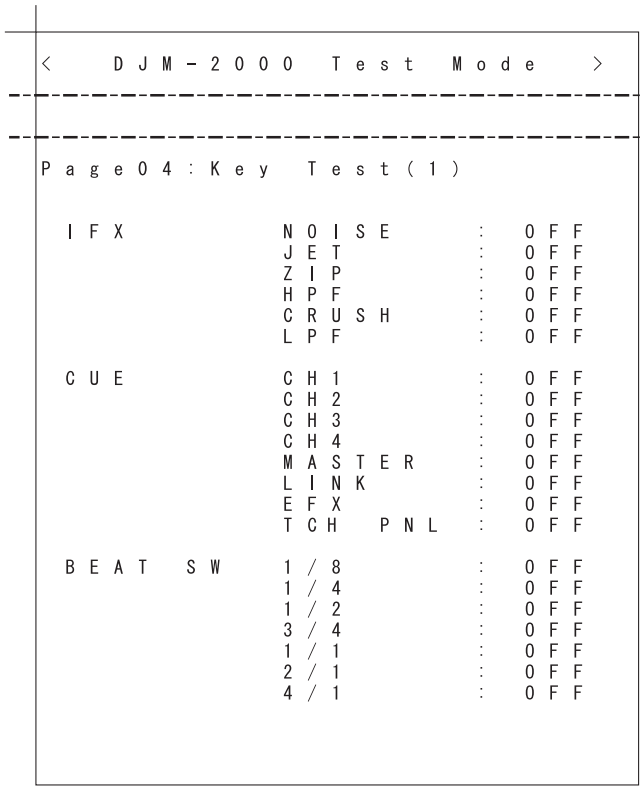
```
<    DJM-2000 Test Mode    >
-------------------------------
-------------------------------
Page03:LED All Off
```

IP Address
: can not get IP addr
Display it during the IP address acquisition.
Display an IP address after the acquisition.
When be displayed more than 15 seconds, be abnormal.

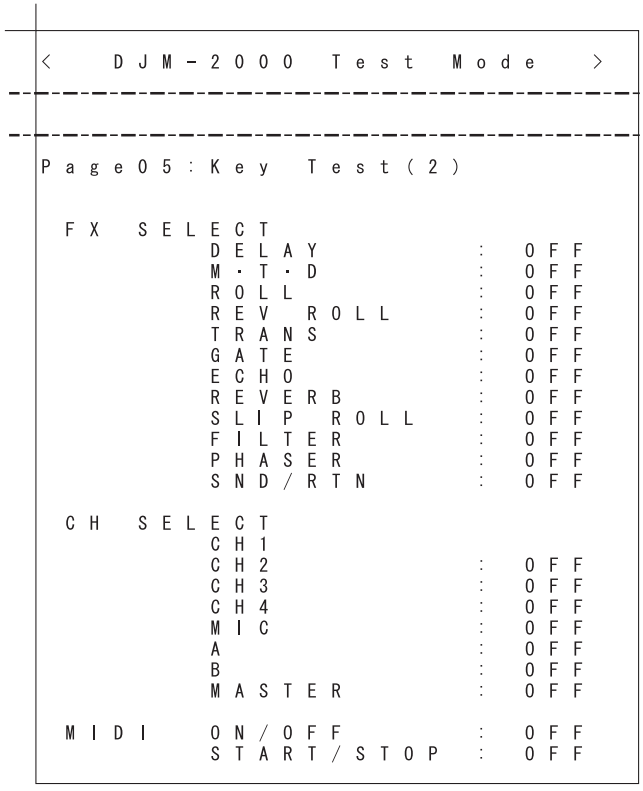
Subnet Mask
Be blanks at the state that an IP address cannot acquire.

SDRAM DSP1/DSP2
: CHK
Display it during an SDRAM check. After a check, display OK or NG.
When be displayed more than 15 seconds, be abnormal.

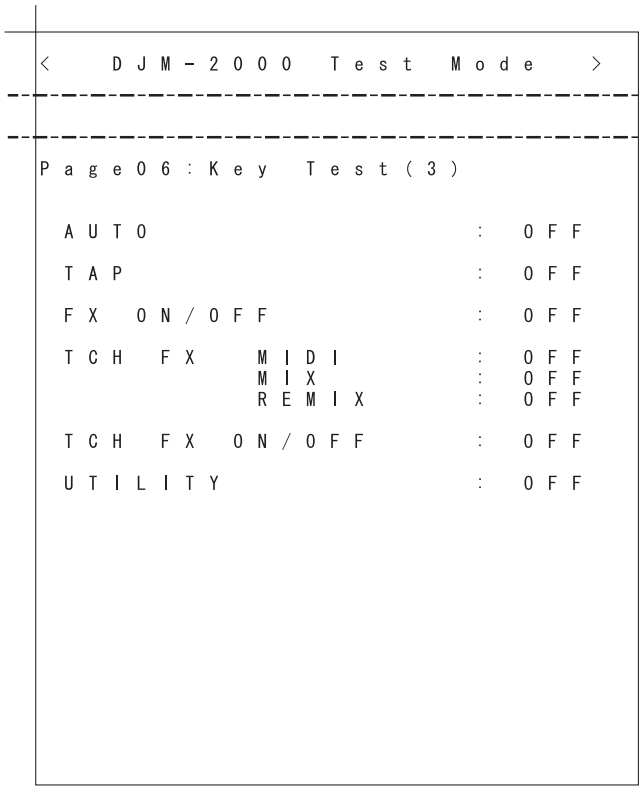
● Page 04 : Key Test (1)



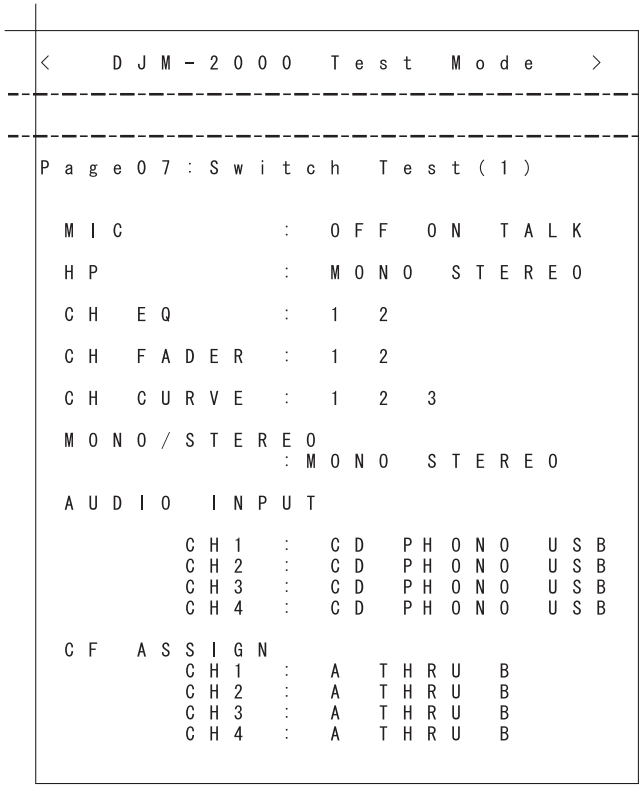
● Page 05 : Key Test (2)



● Page 06 : Key Test (3)



● Page 07 : Switch Test (1)



● Page 08 : Switch Test (2)

```
<    DJM-2000 Test Mode    >

Page08:Switch Test(2)

  MASTER ATT:  0  -3  -6(dB)

  CD DIGITAL
          CH1  :  CD DIGITAL
          CH2  :  CD DIGITAL
          CH3  :  CD DIGITAL
          CH4  :  CD DIGITAL

  TIME         :  xxx%
```

● Page 09 : Volume Test (1)

```
<    DJM-2000 Test Mode    >

Page09:Volume Test(1)

  MIC EQ HI  :  xxx[          ]xxx
         LOW :  xxx[          ]xxx
  IFX        :  xxx[          ]xxx
  HP MIXING  :  xxx[          ]xxx
  HP LV      :  xxx[          ]xxx
  FX EQ  HI  :  xxx[          ]xxx
         MID :  xxx[          ]xxx
         LOW :  xxx[          ]xxx
  LV DEPTH   :  xxx[          ]xxx
  MASTER LV  :  xxx[          ]xxx
  BALANCE    :  xxx[          ]xxx
  BOOTH      :  xxx[          ]xxx
```

The corresponding level indicators shown below will light in response to controlling the following variable registers on Pages 09–12:

VR	Level indicators
CH1 fader	CH1
CH2 fader	CH2
CH3 fader	CH3
CH4 fader	CH4
BALANCE	MASTER L
BOOTH MONITOR	MASTER R

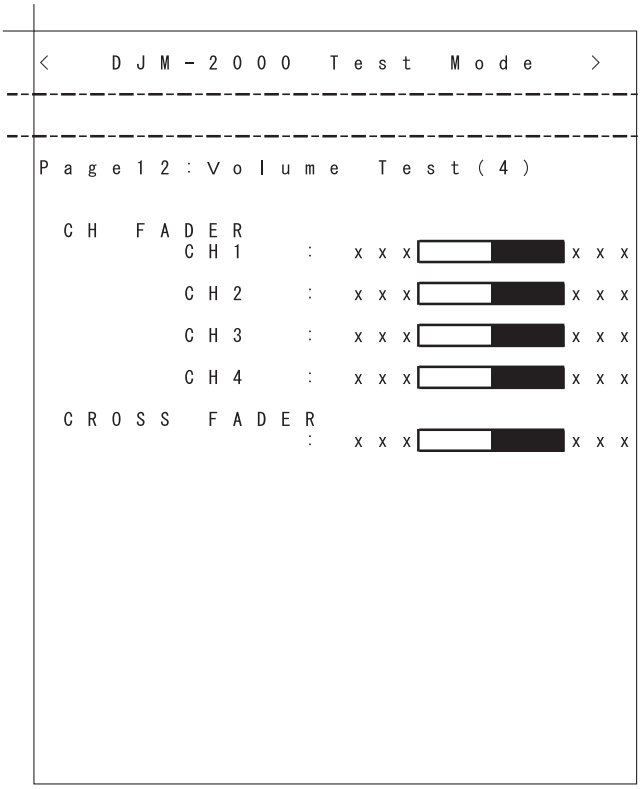
● Page 10 : Volume Test (2)

```
<    DJM-2000 Test Mode    >

Page10:Volume Test(2)

  CH1  TRIM  :  xxx[          ]xxx
       HI    :  xxx[          ]xxx
       MID   :  xxx[          ]xxx
       LOW   :  xxx[          ]xxx
       COLOR :  xxx[          ]xxx
  CH2  TRIM  :  xxx[          ]xxx
       HI    :  xxx[          ]xxx
       MID   :  xxx[          ]xxx
       LOW   :  xxx[          ]xxx
       COLOR :  xxx[          ]xxx
```

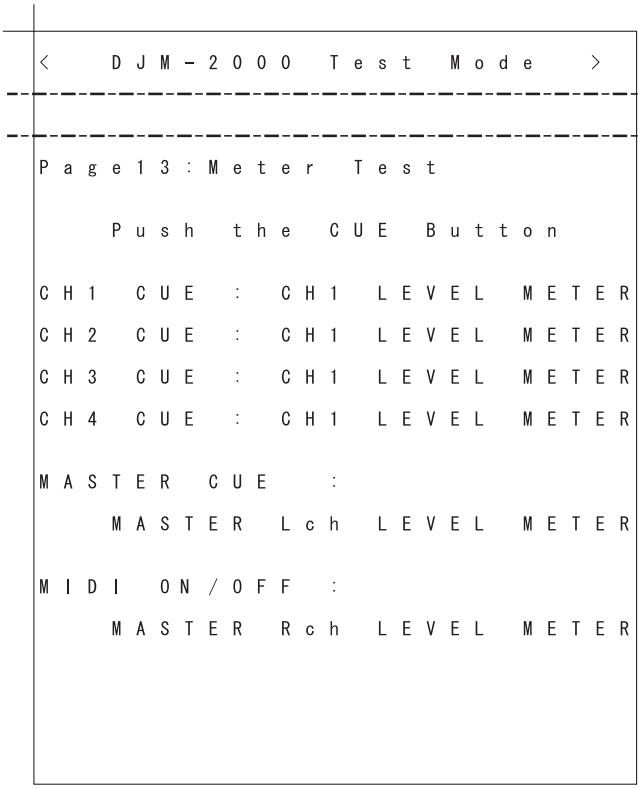
● Page 11 : Volume Test (3)

```
<    DJM-2000 Test Mode    >

Page11:Volume Test(3)

  CH3  TRIM  :  xxx[          ]xxx
       HI    :  xxx[          ]xxx
       MID   :  xxx[          ]xxx
       LOW   :  xxx[          ]xxx
       COLOR :  xxx[          ]xxx
  CH4  TRIM  :  xxx[          ]xxx
       HI    :  xxx[          ]xxx
       MID   :  xxx[          ]xxx
       LOW   :  xxx[          ]xxx
       COLOR :  xxx[          ]xxx
```

● Page 12 : Volume Test (4)

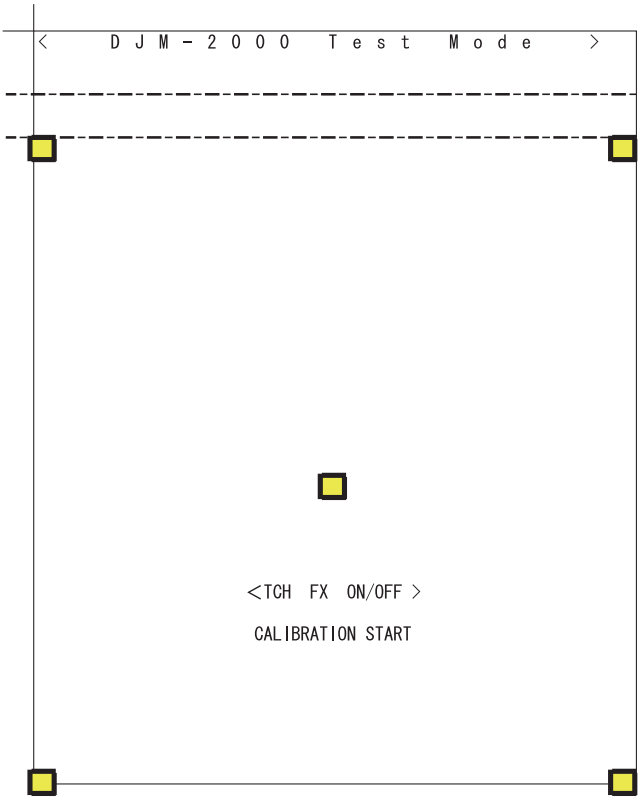


● Page 13 : Meter Test

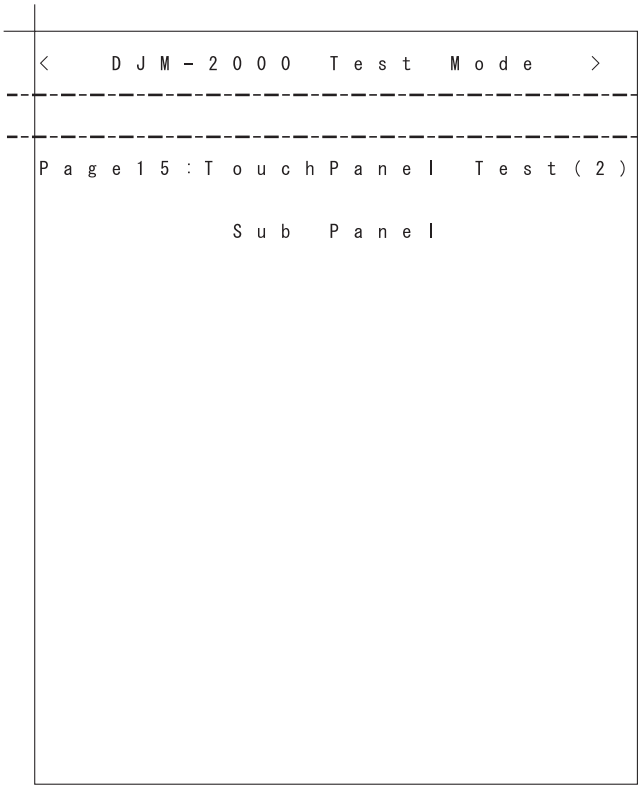


Each time the CUE key is pressed, the level indicator LEDs for each channel light one by one from the bottom. At first, all the LEDs are unlit. If the CUE button is pressed after it was pressed 15 times (when the top LED is lit), all the LEDs become unlit again.
Then the same steps can be repeated.

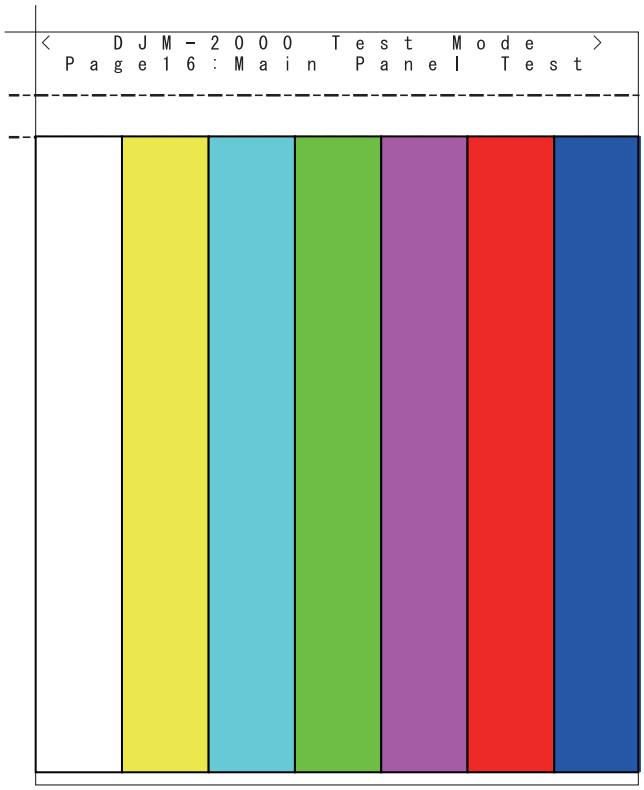
● Page 14 : TouchPanel Test (1) (Calibration)



● Page 15 : TouchPanel Test (2)

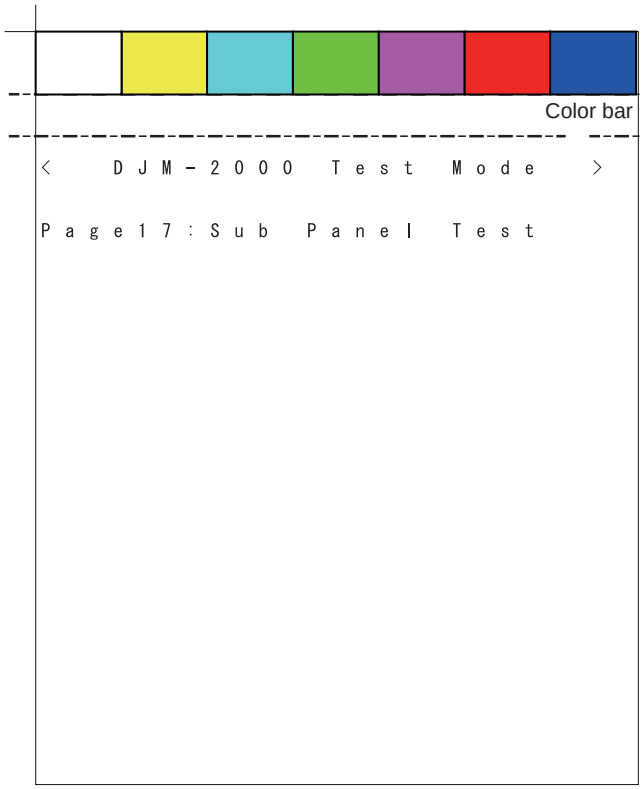


● Page 16 : Main Panel Test

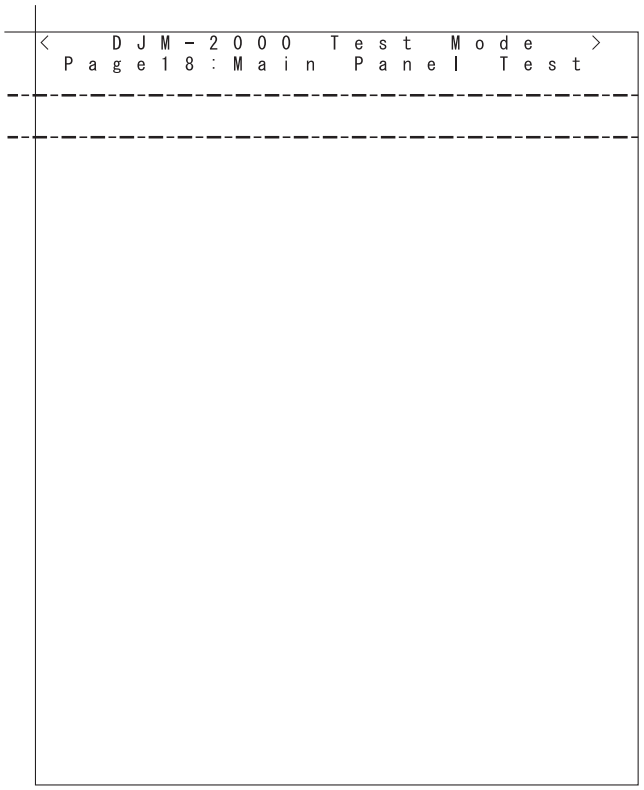


Color bar

● Page 17 : Sub Panel Test

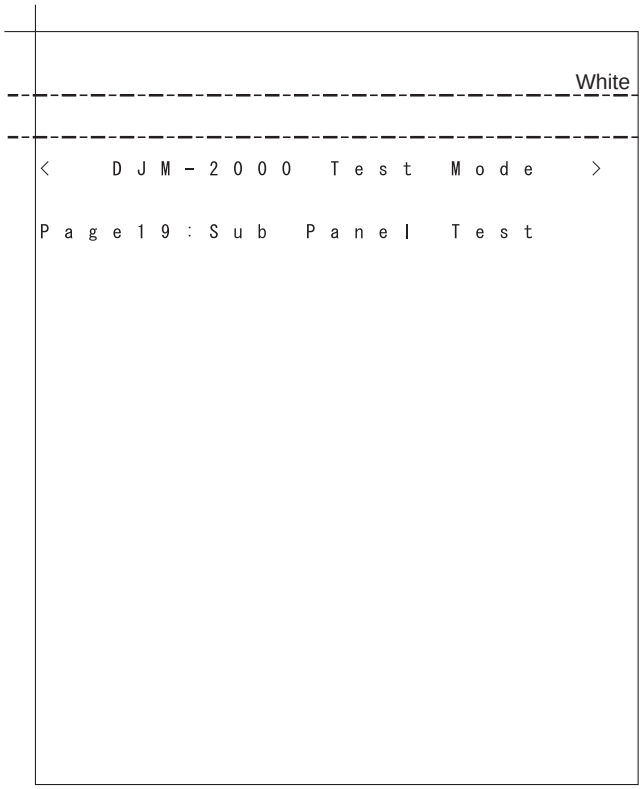


● Page 18 : Main Panel Test

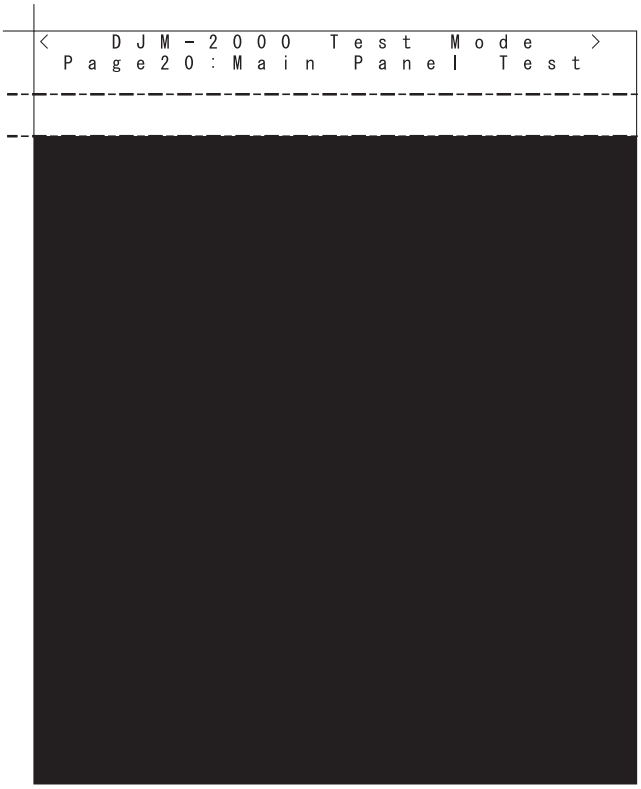


White

● Page 19 : Sub Panel Test

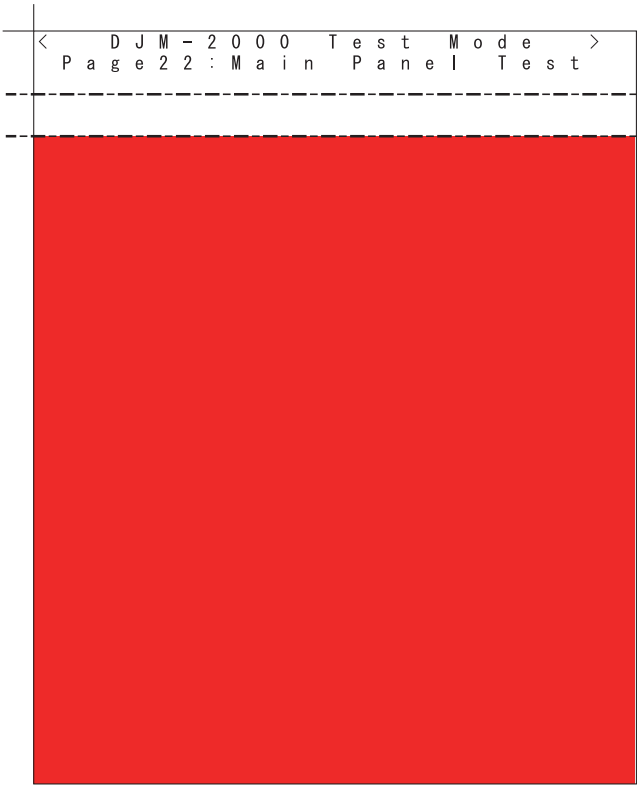


● **Page 20 : Main Panel Test**



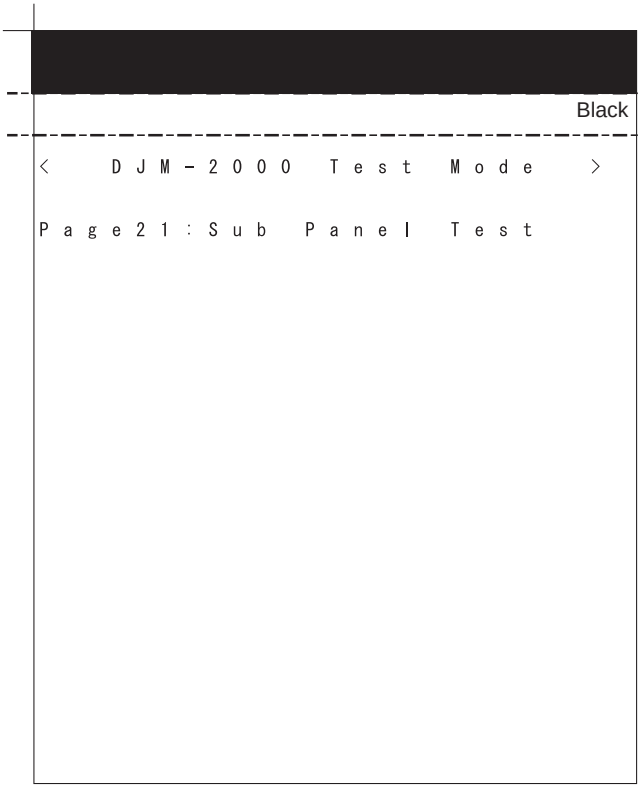
Black

● **Page 22 : Main Panel Test**

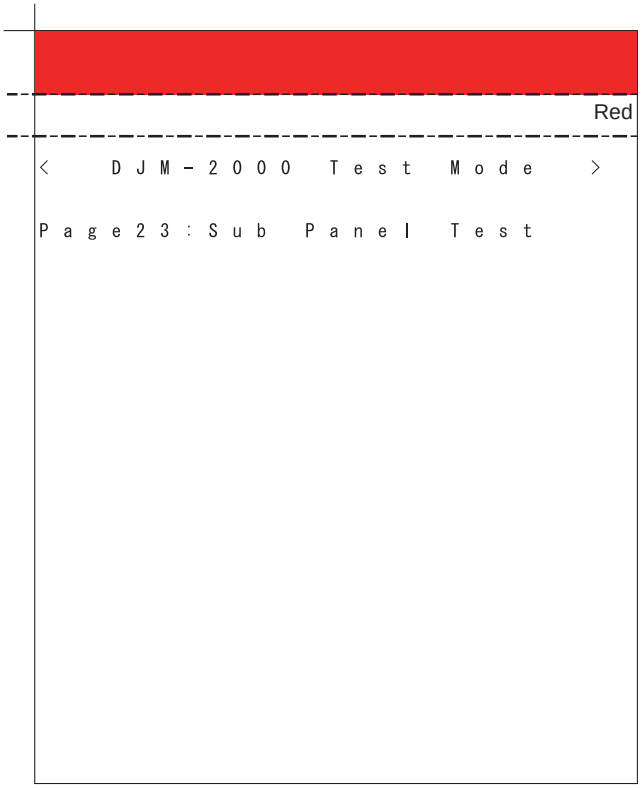


Red

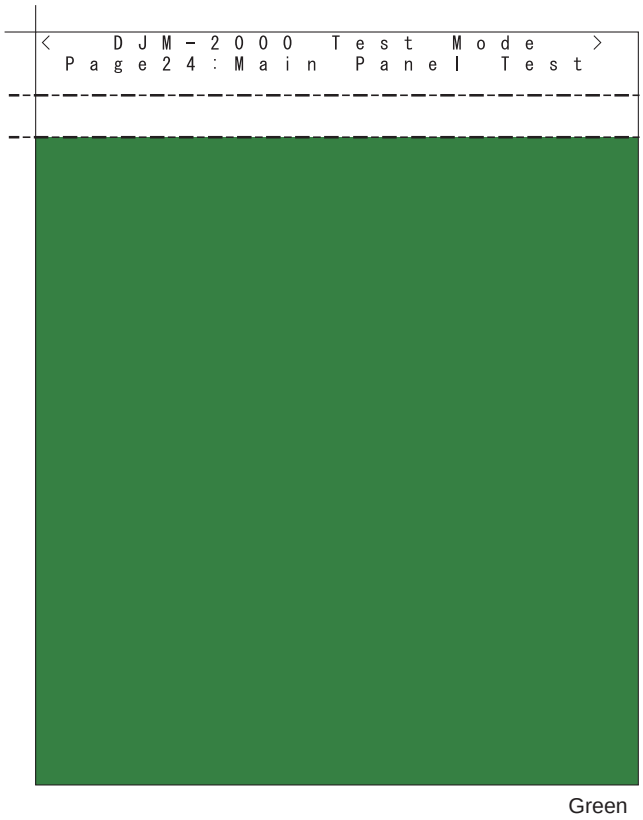
● **Page 21 : Sub Panel Test**



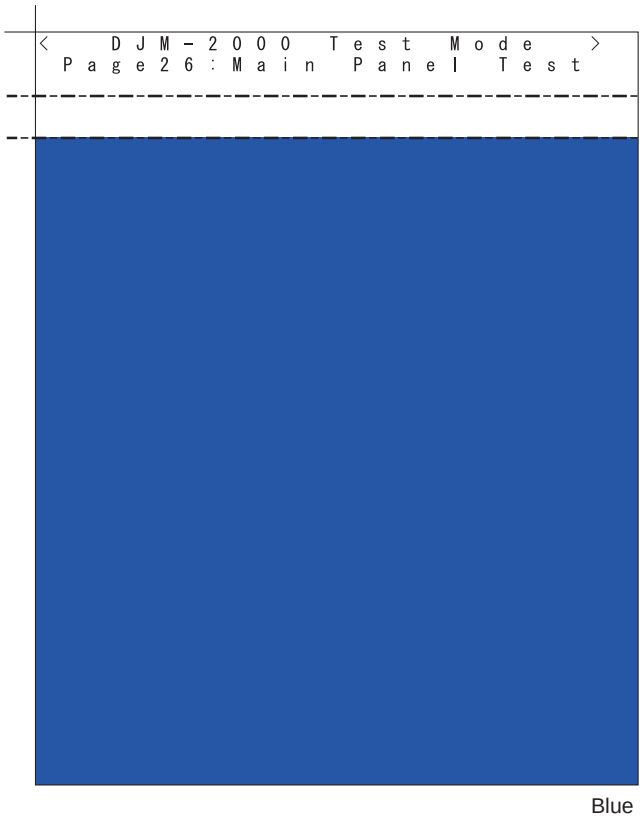
● **Page 23 : Sub Panel Test**



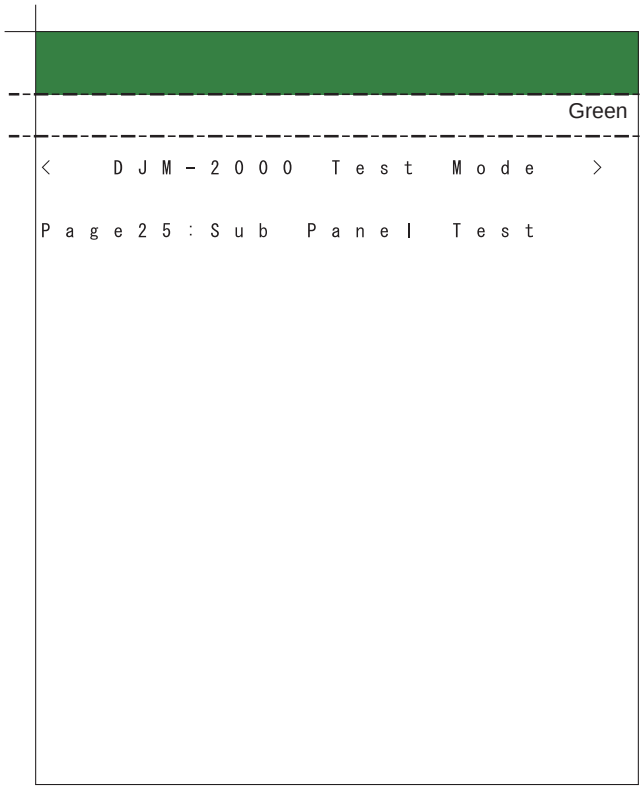
● Page 24 : Main Panel Test



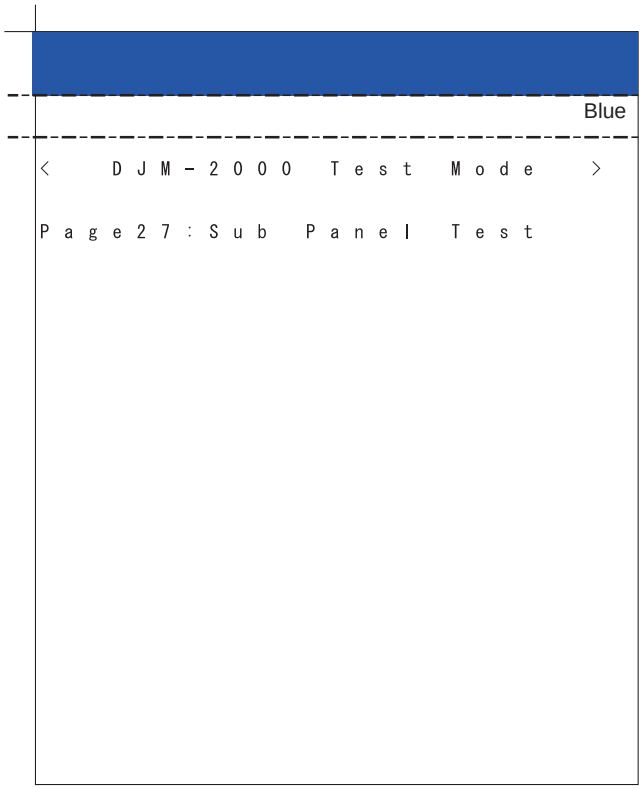
● Page 26 : Main Panel Test



● Page 25 : Sub Panel Test



● Page 27 : Sub Panel Test



6.2 ABOUT THE DEVICE

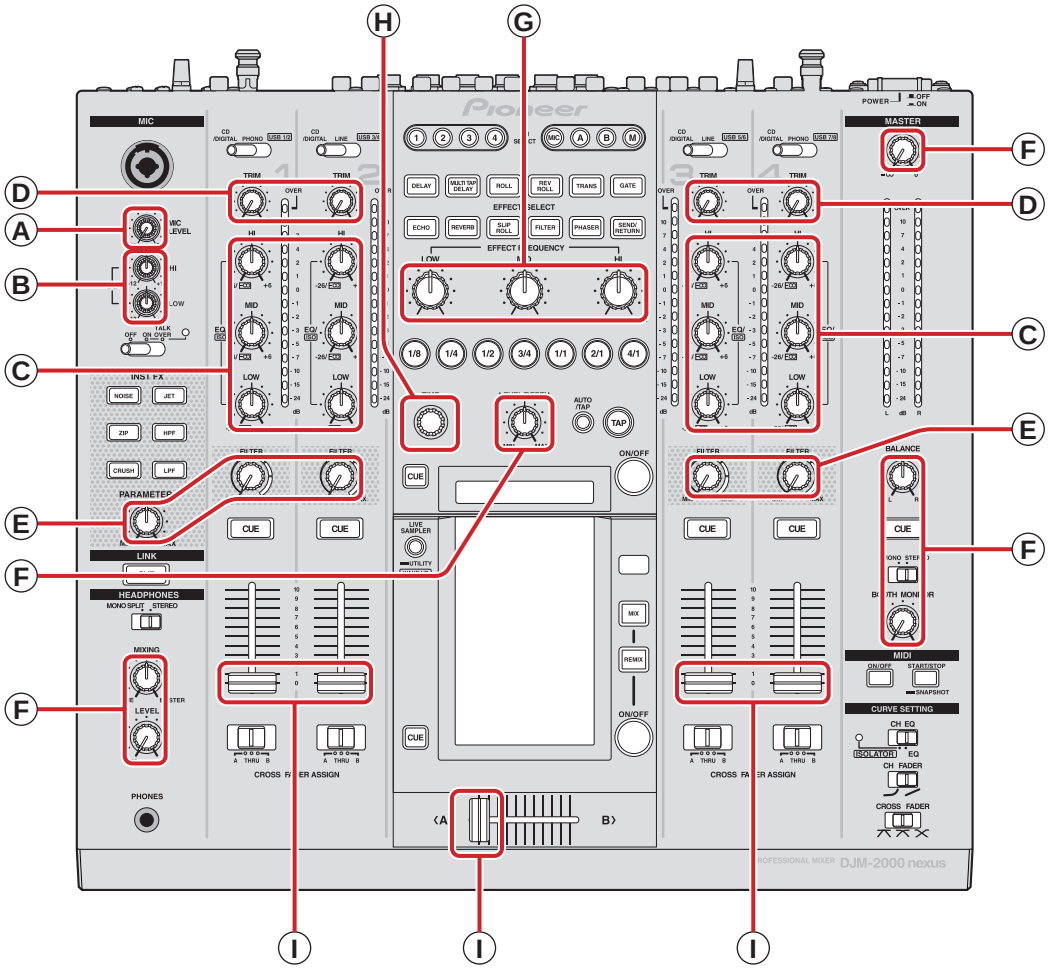
Device Name	Function	Part No.	Ref No.	Assy
UCOM_A	USB, KEY, VR control and STBY control	DYW1822	IC1105	MAIN Assy
FPGA	For RAM, clock divider	XC3S50A-4FTG256C	IC1201	MAIN Assy
DSP1	Audio DSP	D610A003BPYPA225	IC1302	MAIN Assy
FLASH1 (4M)	Memory for DSP1 (Firmware)	DYW1824	IC1304	MAIN Assy
SDRAM1 (128M)	Memory for DSP1 (Work)	M12L128168A-5TG2N	IC1303	MAIN Assy
DSP2	Audio DSP	D610A003BPYPA225	IC1451	MAIN Assy
SDRAM2 (128M)	Memory for DSP2 (Work)	M12L128168A-5TG2N	IC1452	MAIN Assy
UCOM_C	Main control, LCD, Touch panel control	R5S77641N300BG	IC1601	MAIN Assy
FLASH3 (64M)	Memory for UCOM_C (Firmware)	DYW1825	IC1703	MAIN Assy
SDRAM3L (128M)	Memory for UCOM_C (Work)	M12L128168A-5TG2N	IC1701	MAIN Assy
SDRAM3H (128M)	Memory for UCOM_C (Work)	M12L128168A-5TG2N	IC1702	MAIN Assy
UCOM_B	LEDL, KEY, VR control	DYW1823	IC7501	PNLE Assy
USB_IC	USB control	TUSB3200ACPAH	IC2002	PCIF Assy
ETHER1	For LINK	PSB6970HL	IC2010	PCIF Assy
ETHER2	For LINK	RTL8201CP-LF	IC2009	PCIF Assy

Two or more FLASH and SDRAM are mounted in this unit.
Please judge the device which you should diagnose in reference to this list.

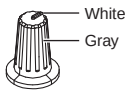
7. DISASSEMBLY

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

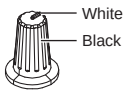
Knobs and Volumes Location



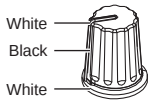
Ⓐ Knob/RSW (DAA1308)



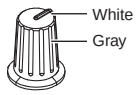
Ⓑ Knob/RSW (DAA1307) ×2



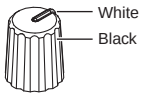
Ⓒ Knob/RSW (DAA1305) ×12



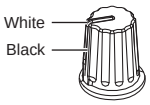
Ⓓ Rotary SW Knob S (C) (DAA1204) ×4



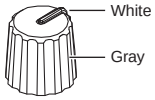
Ⓔ Knob (RES) (DAA1250) ×5



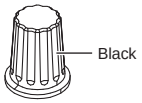
Ⓕ Rotary Knob (BN) (DAA1220) ×6



Ⓖ Knob/FRE (DAA1309) ×3



Ⓗ Rotary SW Knob (C) (DAA1180)

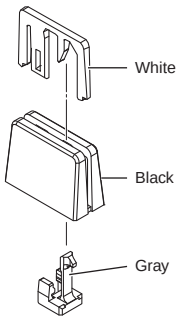


Ⓘ Slider Knob 1 (DAC2684) ×5 + Slider Knob 2 (DAC2685) ×5 + Slider Knob Stopper (DNK5888) ×5

Slider Knob 2

Slider Knob 1

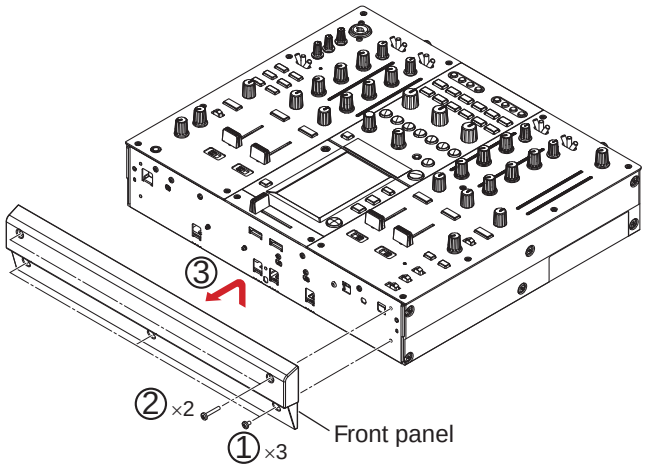
Slider Knob Stopper



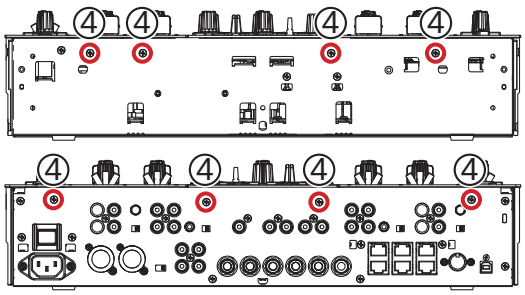
Disassembly

[1] Control Pane Section

(1) Remove the three screws. (BCZ40P060FTB)
(2) Remove the two screws. (BSZ40P220FTB)
(3) Remove it to the front direction while lifting front panel on the top.

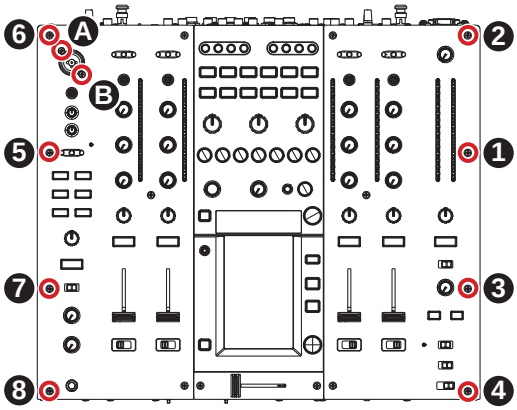


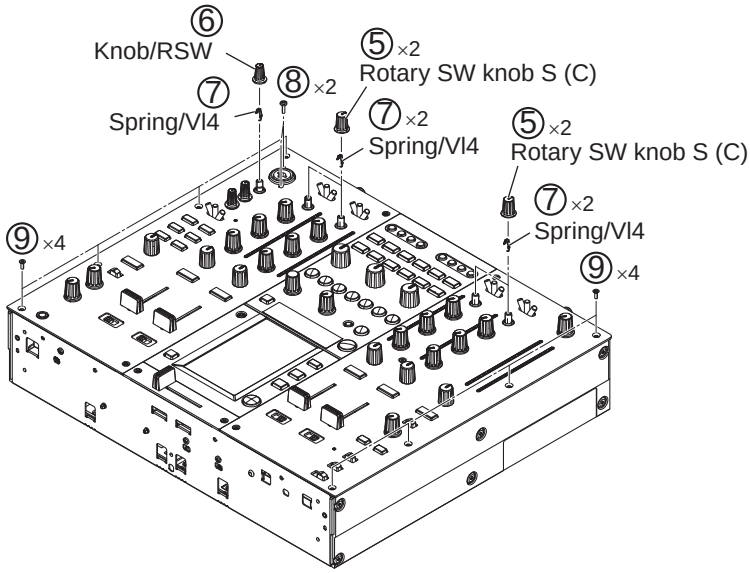
(4) Remove the eight screws. (BBZ30P060FTB)



(5) Remove the four rotary SW knobs S (C).
(6) Remove the knob/RSW.
(7) Remove the five springs/VI4.
(8) Remove the two screws. (BPZ30P100FTB)
(9) Remove the eight screws. (CCZ30P080FTB)

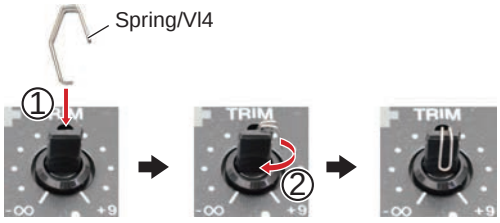
Screw tightening order





How to install spring

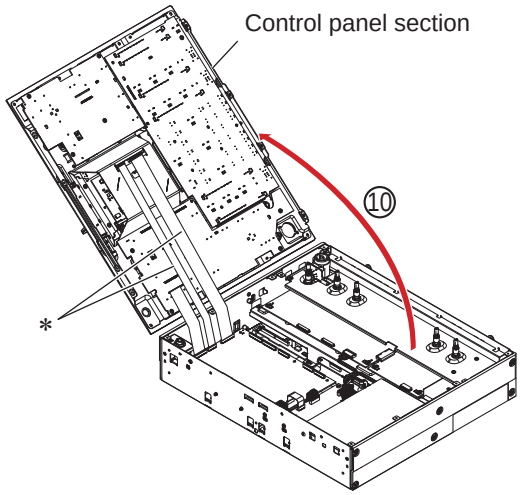
(1) Do the flat part of the shaft toward you, and insert a spring to the right.
(2) Turn the spring 90 degrees in the clock direction.



Note:
When repairing modified unit, please remove all springs before disassembly. There is a possibility that dropped spring causes short circuit if you missed removing.

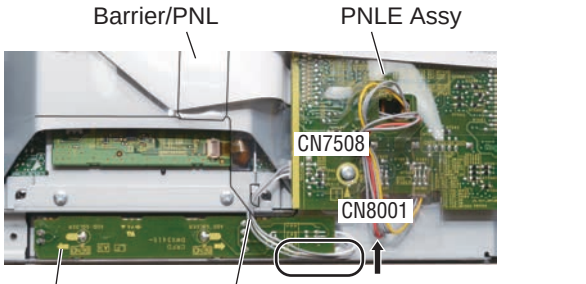
(10) Remove the control panel section.

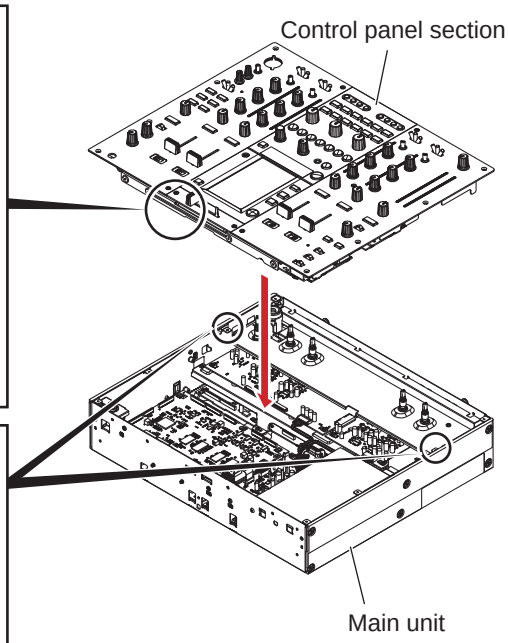
Note ∗:
The flexible cables between the TFTB Assy and MAIN Assy do not have redundant length. When detaching the control panel section, be careful not to pull out or damage the flexible cables.



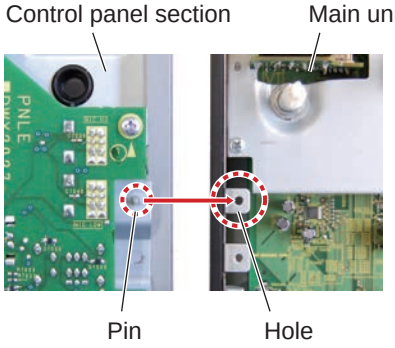
• Note on Reassembly

When attaching the control panel section to the main unit, make sure that the cables of the Connector Assy (3P), shown in the figure below, will not be pinched between the edges of the two sections of the housing when closing it.





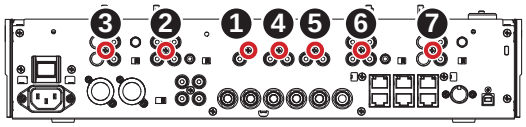
During reassembly, align the pin on the control panel with the hole of the main unit for proper alignment.

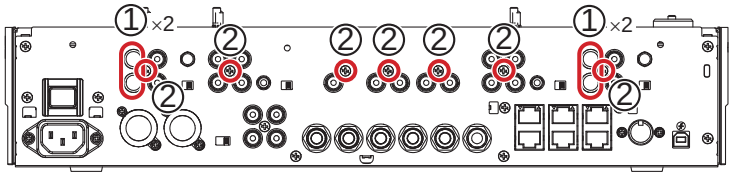


[2] AIN1 and AIN2 Assy

(1) Disconnect the four plugs/pin.
(2) Remove the seven screws. (BPZ30P080FTB)

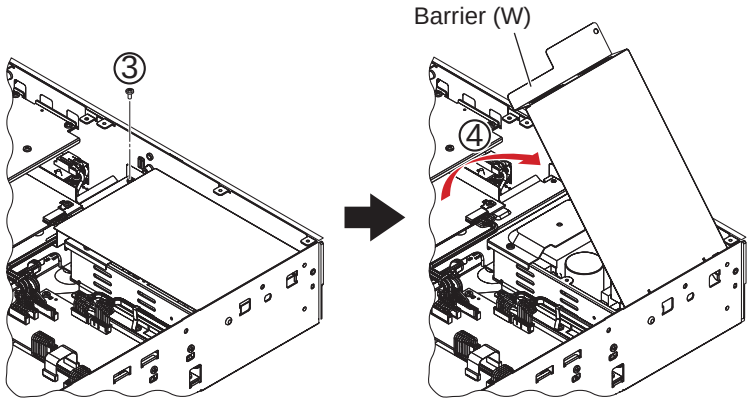
Screw tightening order





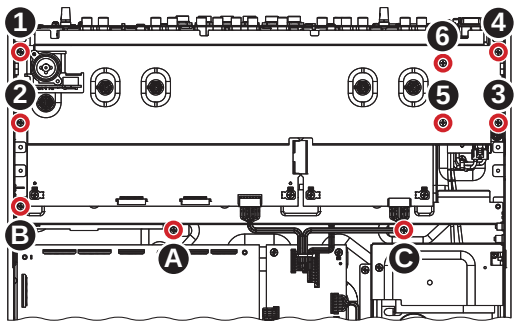
• Rear view

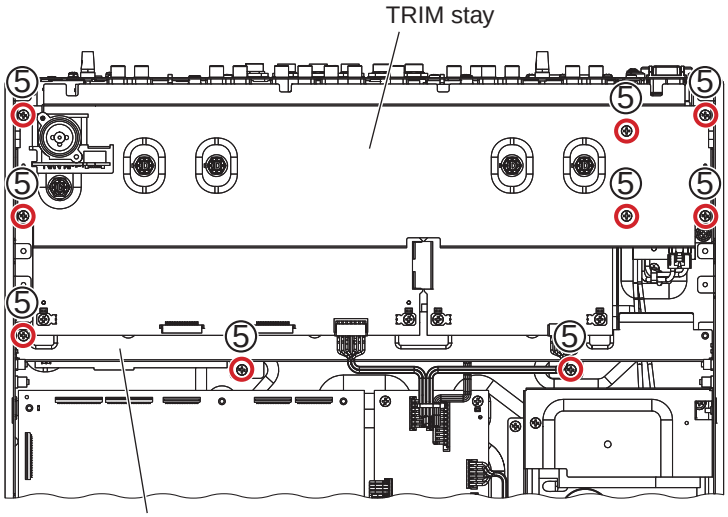
(3) Remove the screw. (BBZ30P060FTC)
(4) Lift up the barrier (W) to a front direction.



(5) Remove the nine screws. (BBZ30P060FTC)

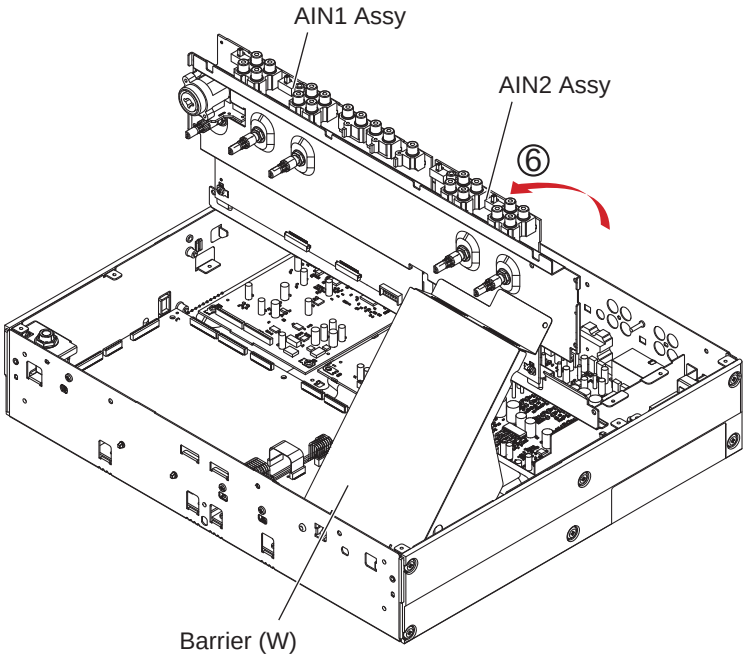
Screw tightening order

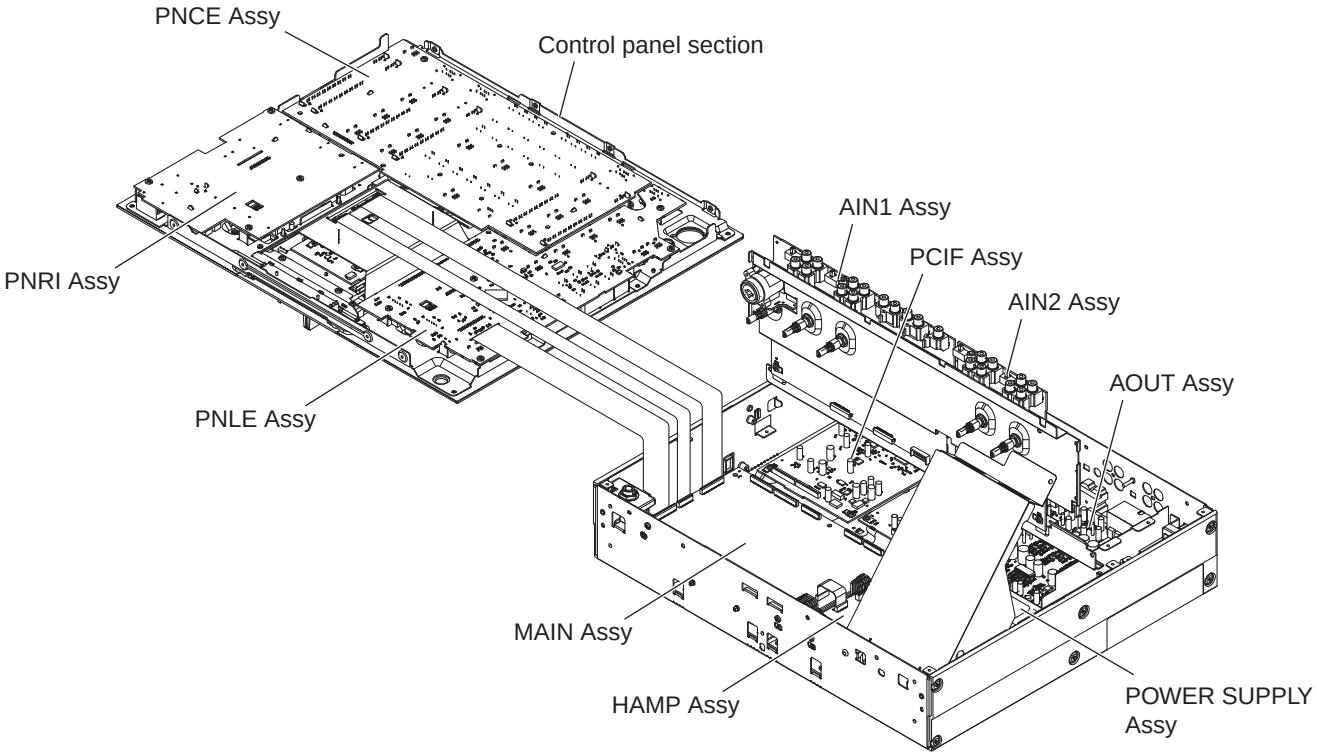




(6) Lift up the AIN1 and AIN2 Assemblies to a front direction.

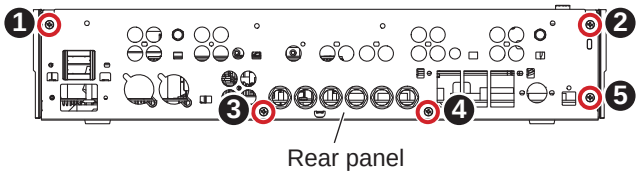
Diagnosis



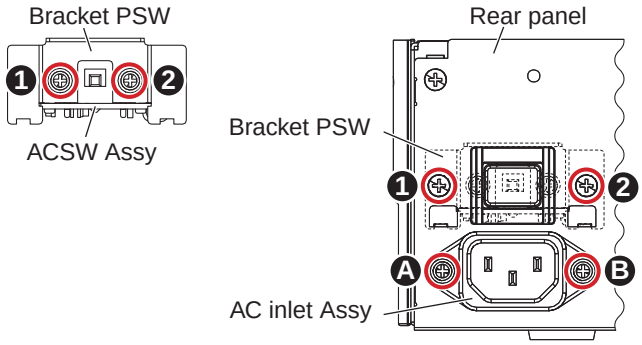


Reference information

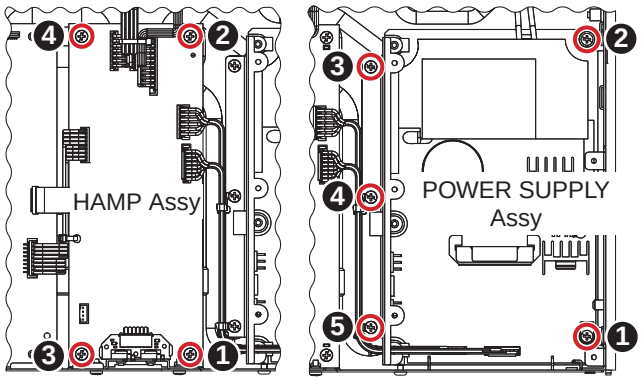
Screw tightening order (Rear panel)



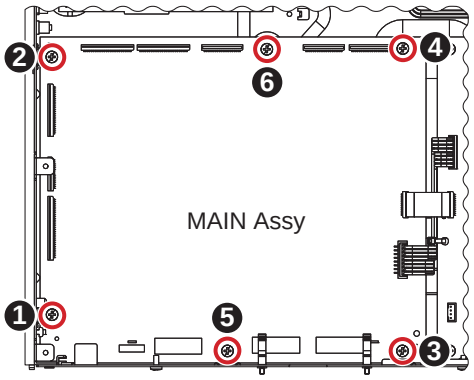
Screw tightening order (Bracket PSW/AC inlet Assy)



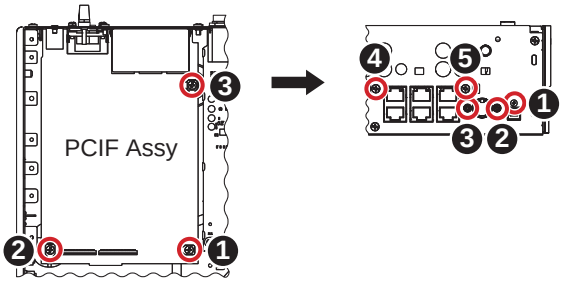
Screw tightening order (POWER SUPPLY Assy/HAMP Assy)



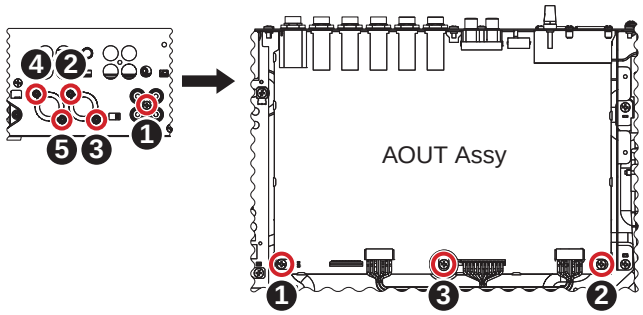
Screw tightening order (MAIN Assy)



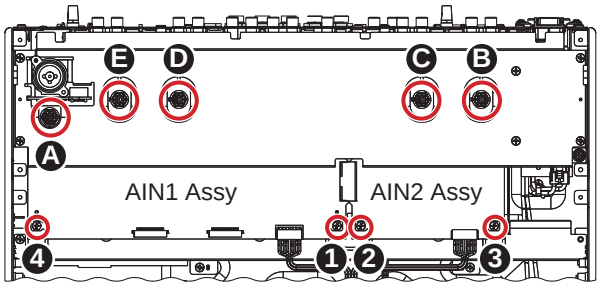
Screw tightening order (PCIF Assy)



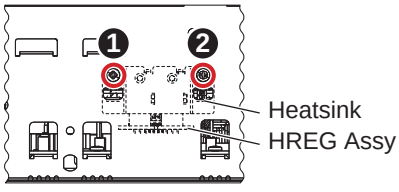
Screw tightening order (AOUT Assy)



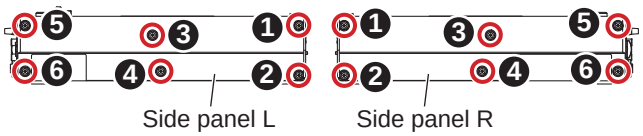
Screw, washer tightening order (AIN1, AIN2 Assy)



Screw tightening order (Heatsink)



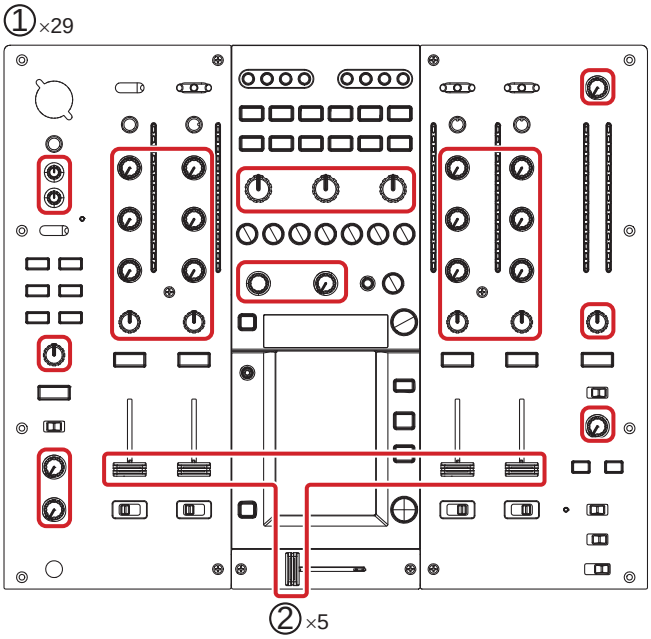
Rivet tightening order (Side panel L, R)



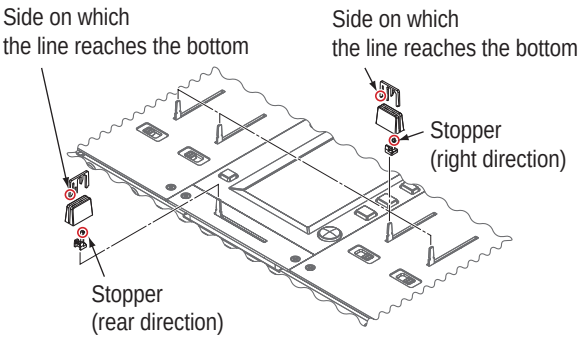
[3] Fader Section

[3-1] Control panel

(1) Remove the all knobs.
(2) Remove the five silider knobs 2, five slider knobs 1, five slider knob stoppers. (See below.)



The reference of the direction



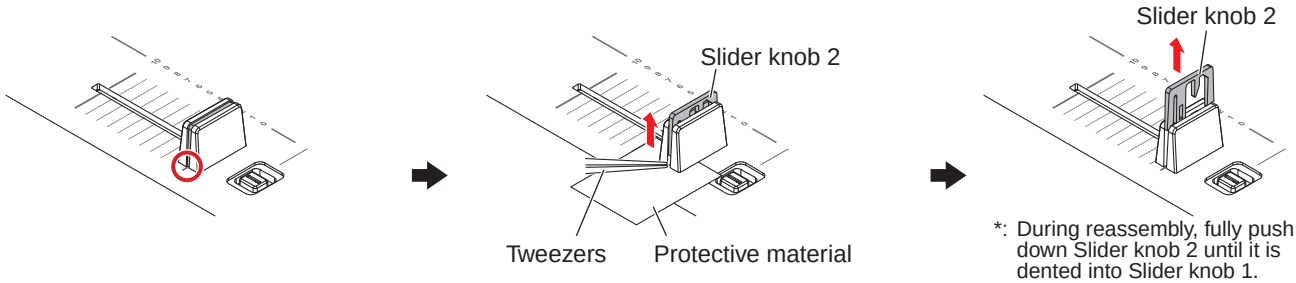
• Disassembly of the slider knob

The new slider knob adopted by this product is designed so that it is not pulled out easily. Therefore, the method for removing the slider knob is different from the conventional method; it can only be pulled out after slider knob 2 is removed.

① Find the side on which the line reaches the bottom.

② Insert a pair of tweezers etc. beneath the line then push the slider knob 2 upward. To protect the panel from being scratched, use protective material.

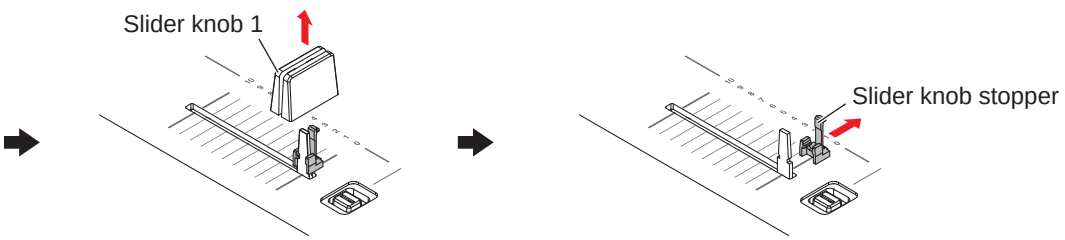
③ Remove the slider knob 2.



*: During reassembly, fully push down Slider knob 2 until it is dented into Slider knob 1.

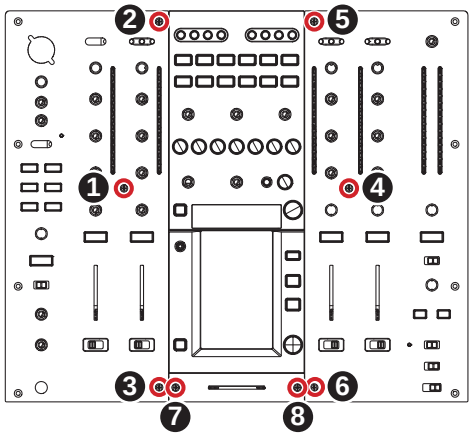
④ Remove the slider knob 1.

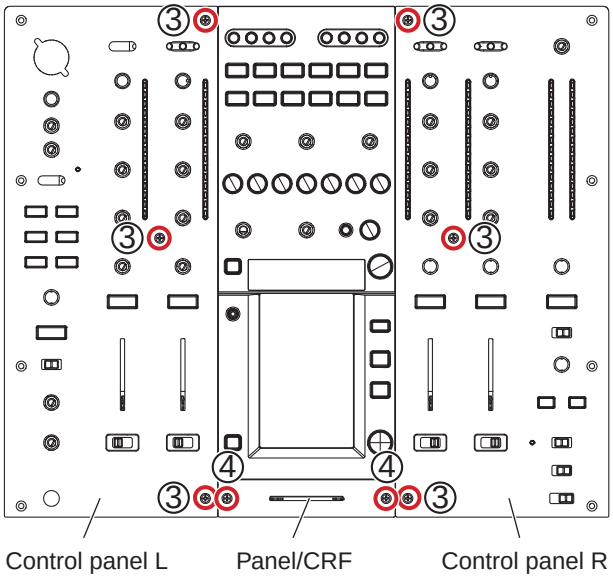
⑤ Remove the slider knob stopper.



(3) Remove the Control panel L and R by removing the six screws.
(CCZ30P080FTB)
(4) Remove the Panel/CRF by removing the two screws.
(CCZ30P080FTB)

Screw tightening order

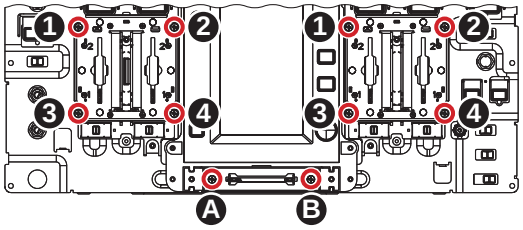


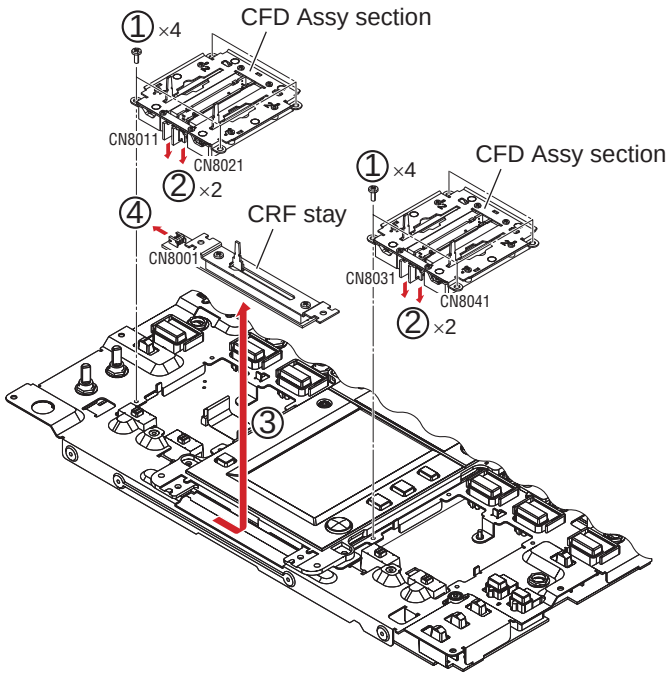


[3-2] Fader section

(1) Remove the two CFD Assy section by removing the eight screws.
(BBZ30P060FTC)
(2) Disconnect the four connectors.
(CN8011, 8021, 8031, 80341)
(3) Remove the CRF stay with CRFD Assy.
(4) Disconnect the one connector.
(CN8001)

Screw tightening order





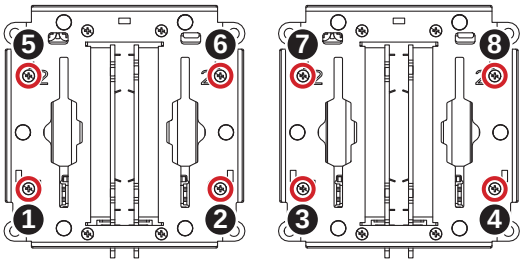
[3-3] FAD1, 2, 3 and 4 Assy

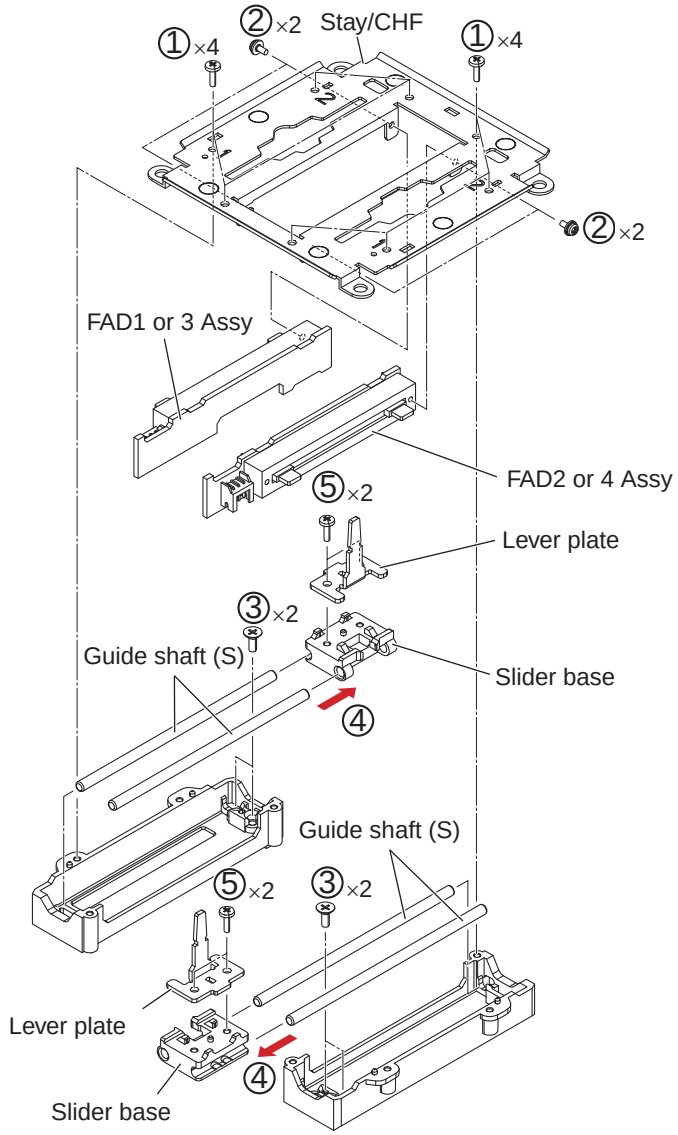
Note: Illustrations and the procedures show one set.

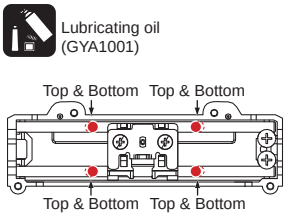
(1) Remove the two FAD Assemblies with Stay/CHF by removing the eight screws. (BPZ20P060FTC)
(2) Remove the two FAD Assemblies by removing the four screws. (PMH20P040FTC)
(3) Remove the two Guide shafts (S) and two Slider base sections by removing the four screws. (CPZ26P080FTC)
(4) Remove the two Slider base sections from two Guide shafts (S).
(5) Remove the two Lever plates by removing the four screws. (BPZ20P060FTC)

Screw tightening order

The other screws are random order.







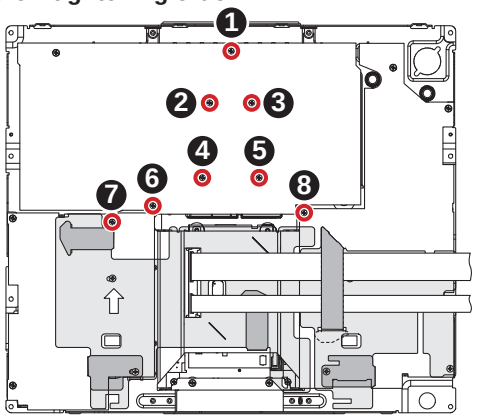
Note:
Greasing must be performed at a total of 8 points, 2 points each for the upper and bottom places of each shaft. (0.4 to 1 mg per point × 8 points)
After applying grease, move the slider base back and forth from one end to the other for approximately 10 to 20 strokes, in order to fully spread the grease.

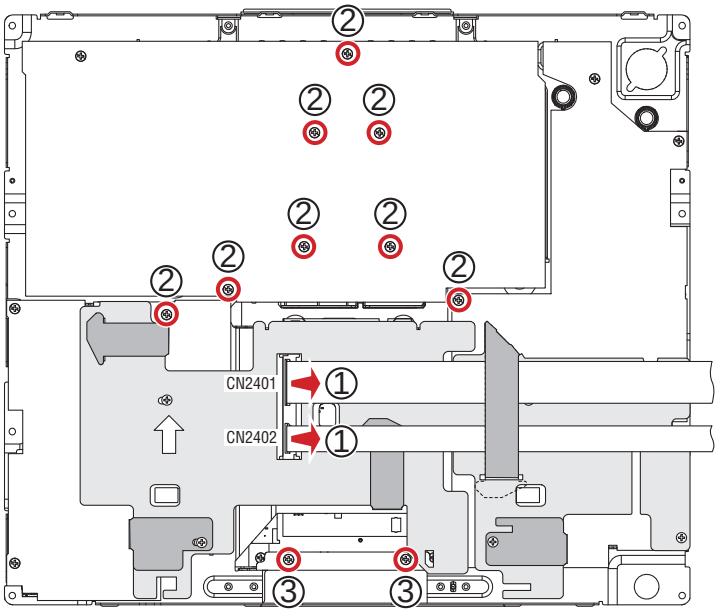
[4] LCD and Touch panel

[4-1] LCD section

(1) Disconnect the two flexible cables.
(CN2401, 2402)
(2) Remove the eight screws.
(BPZ30P080FTB)
(3) Remove the two screws.
(BBZ30P060FTC)

Screw tightening order

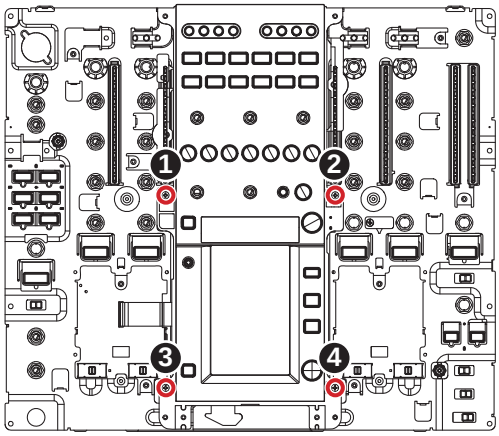


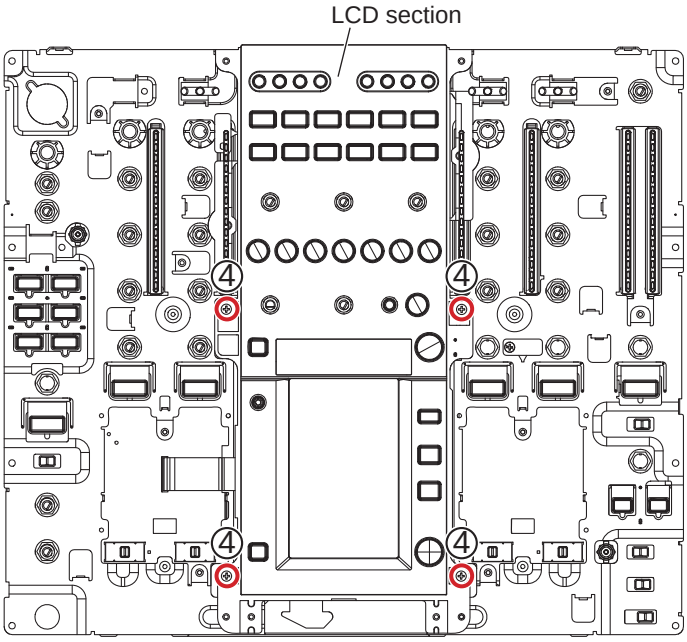


• Bottom view

(4) Remove the LCD section by removing the four screws.
(BBZ30P060FTC)

Screw tightening order

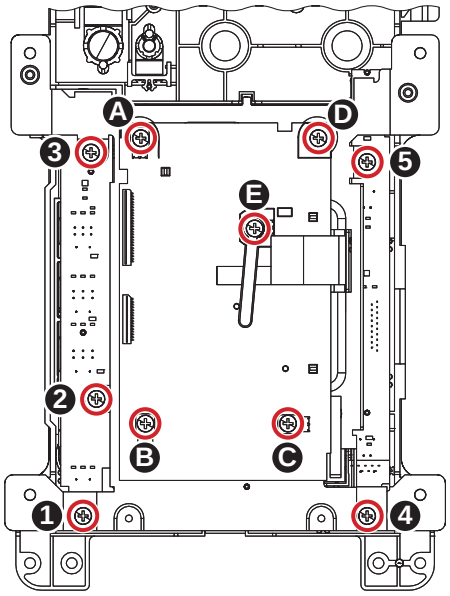


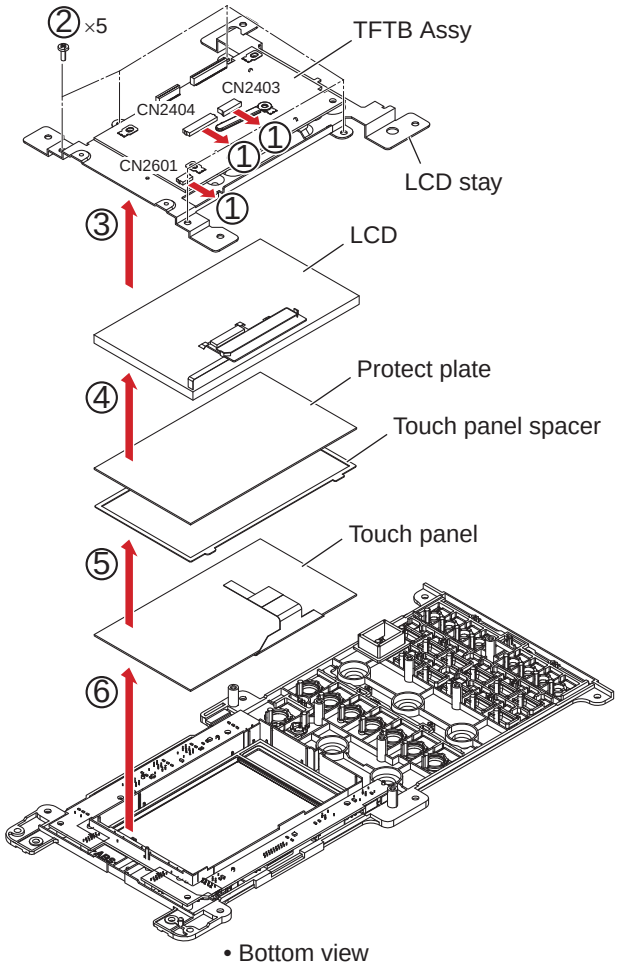


[4-2] LCD and Touch panel

(1) Disconnect the three flexible cables.
(2) Remove the five screws.
(BPZ30P080FTB)
(3) Remove the LCD stay with TFTB Assy.
(4) Remove the LCD.
(5) Remove the Protect plate and Touch panel spacer.
(6) Remove the Touch panel.

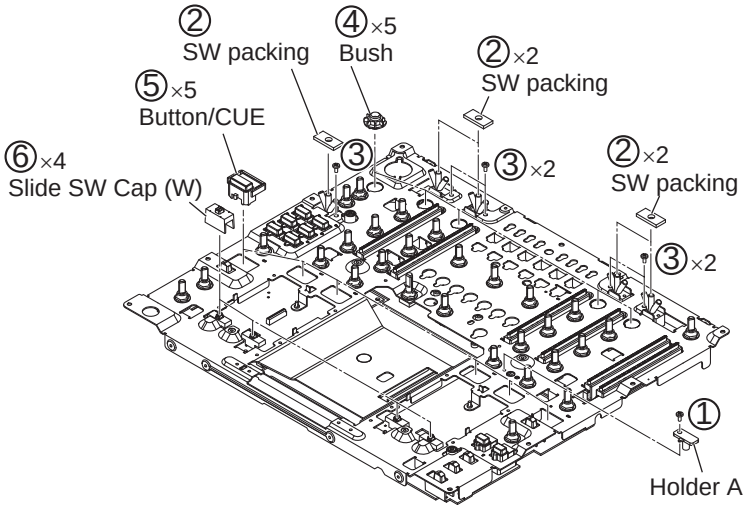
Screw tightening order



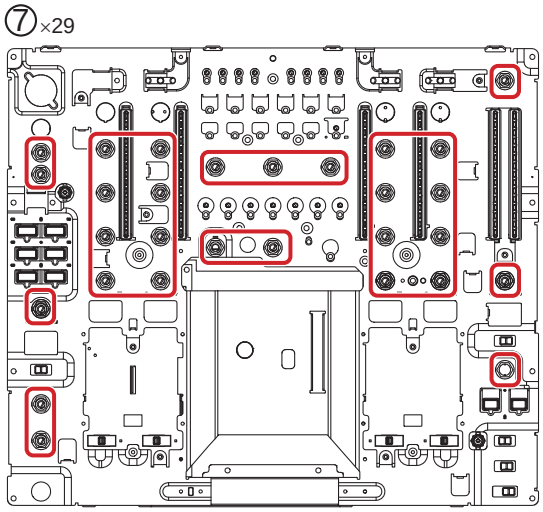


[5] Control PCBs

(1) Remove the Holder A by removing the one screw.
(BBZ30P060FTC)
(2) Remove the five SW packings.
(3) Remove the five screws.
(AMZ26P040FTC)
(4) Remove the five Bushes.
(5) Remove the five Buttons/CUE.
(6) Remove the four Slide SW Caps (W).

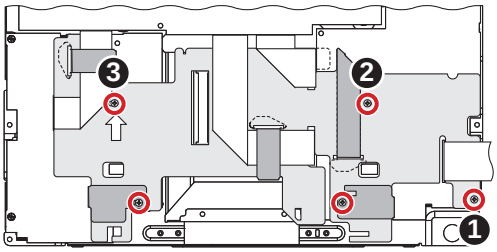


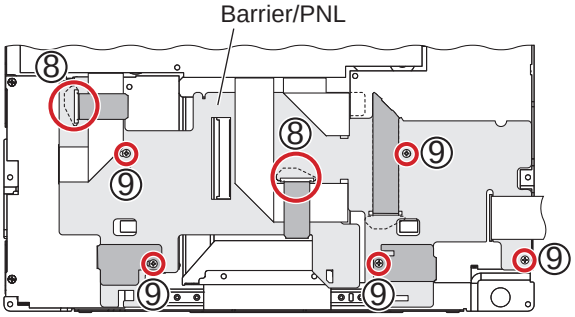
(7) Remove the 29 flange nuts.



(8) Unhook the two hooks.
(9) Remove the Barrier/PNL by removing the five screws.
(BBZ30P060FTC)

Screw tightening order
The other screws are random order.

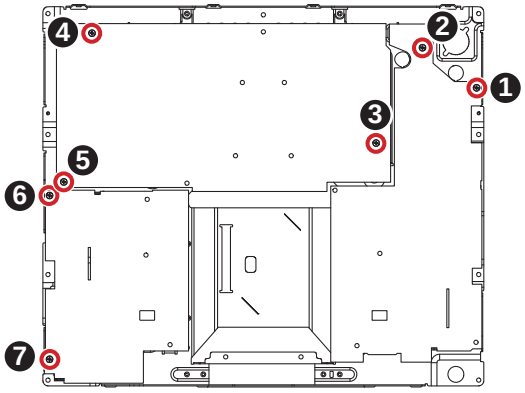


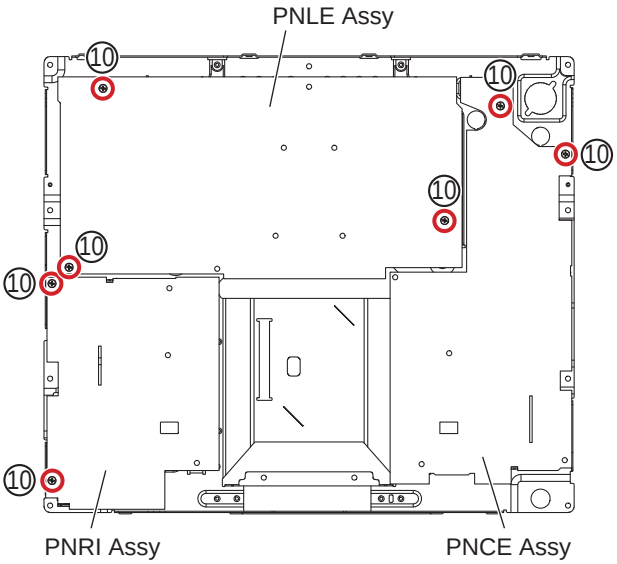


• Bottom view

(10) Remove the PNLE, PNRI and PNCE Assemblies by removing the seven screws.
(BBZ30P060FTC)

Screw tightening order

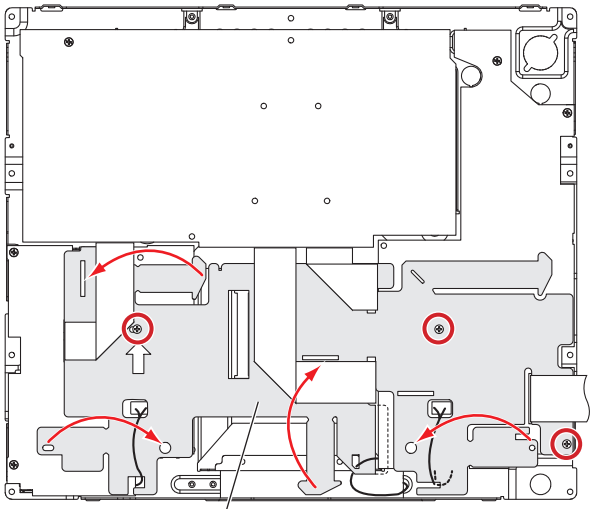




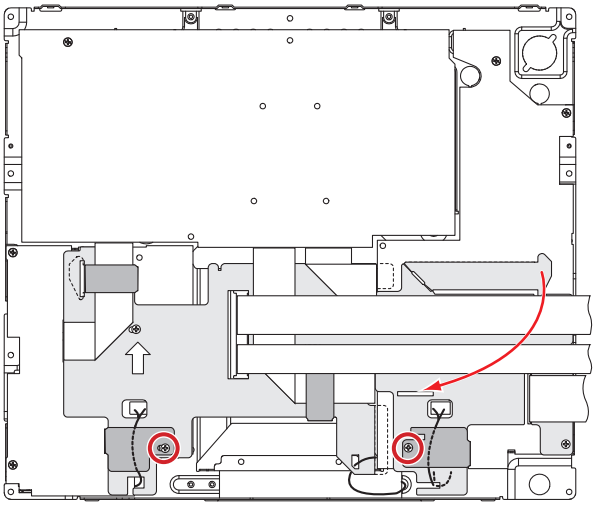
• Bottom view

Jumper wires and Barrier styling

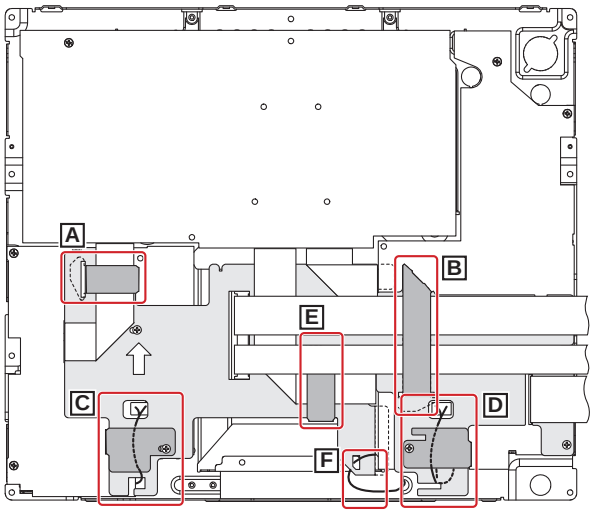
• Bottom view

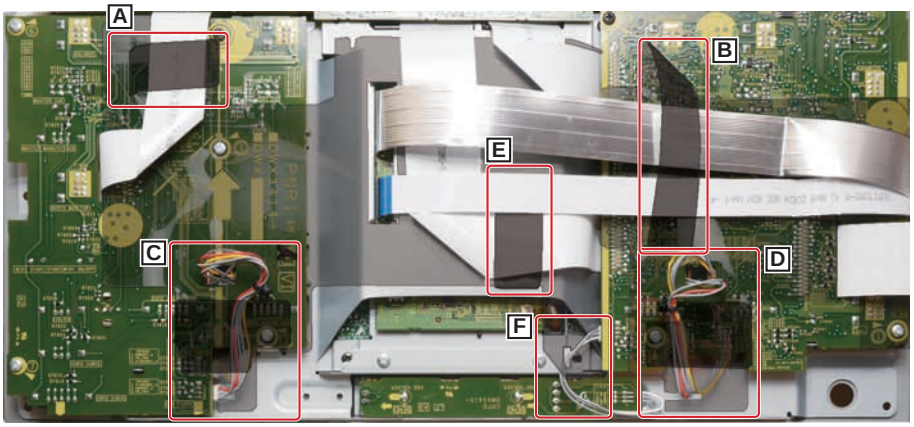


• Bottom view



• Bottom view





8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

It is recommended that you take note of the setting data before starting repair.
Use “8.6 SHEET FOR CONFIRMATION OF THE USER SETTINGS” for taking notes.

Before repairing, be sure to check the version of the firmware (using “Page00: Version” of Test mode), and if it is not the latest one, update to the latest version.

Perform the each item when the following parts are replaced.

• MAIN Assy (Flash ROM)	⇒	• Confirmation of the version of the firmware • Updating to the latest version of the firmware
• PCIF Assy	⇒	• Confirmation of the version of the firmware (USB) • Updating to the latest version of the firmware
• EEPROM (IC2003) on the PCIF Assy	⇒	• Writing of the program (USB firmware) in Checker mode (See 8.3.) • Updating to the latest version of the firmware
• Touch Panel	⇒	• Calibration Adjustment (See 8.4.)

8.2 UPDATING OF THE FIRMWARE

<Prerequisite>
The network settings for the PC to be used for updating must be DHCP or Auto IP.

<Procedures>

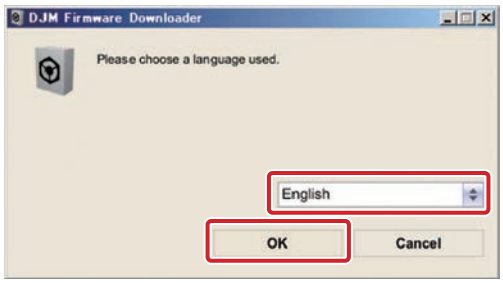
① Download the folder for updater files to the PC, via the Internet.
Folder name: DJM2000_Ver0.00.zip
(“0.00” represents the version)

② Unzip the downloaded folder.
The following two files are unzipped:
DJM2000_Vero.oo.upd
DJM2000_Update0.00.exe (Updater application)

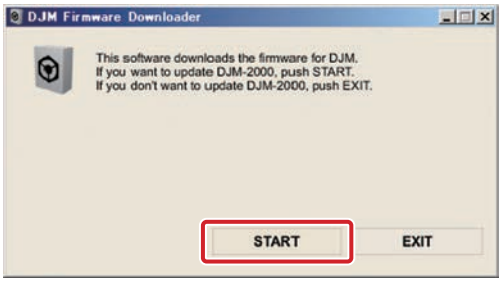
③ Disconnect the PC from the network then connect it with the DJM-2000NXS.
Note: Directly connect the PC and DJM-2000NXS, using a LAN cable. Either a straight or cross LAN cable can be used.

④ Start up the DJM-2000NXS in Update mode.
∗: Turn the POWER switch ON while holding the BEAT EFFECT ON/OFF and TOUCH PANEL EFFECT ON/OFF.

⑤ Start the DJM2000Update0.00.exe file then select the language to be used during the updating process.

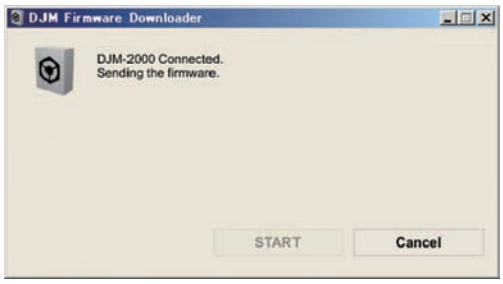


⑥ To update the firmware, click on “START.”



⑦ A standby screen for connection with the DJM-2000NXS will be displayed.
*It may take 1 minute or longer before connection is established.

⑧ After connection is successfully established, updating of the firmware of the DJM-2000NXS will be executed automatically.



⑨ After updating is completed, a completion message will be displayed in the dialog box. After checking that 100% is displayed on the DJM-2000NXS, click on OK. Restart the DJM-2000NXS.

<If an Error is Generated>

An error may be generated while updating of the application is in progress, for the reasons described below.
If an error is generated, perform the above procedures again.

- The updater application is started on the PC without a network environment.
- The updater files cannot be found.
- Communication is interrupted during updating, because of a defective LAN cable, etc.

<Reference>

In a case of the Auto IP setting in a Windows environment, it may take 1 minute or longer until the network communication is established after the DJM-2000NXS is connected with the PC. In such a case, the current status can be confirmed on the Windows PC.

① When the DJM-2000NXS is not connected with the PC

② When the DJM-2000NXS that is started in Update mode is connected with the PC via a network cable

Network communication has not been established yet. Updating of the firmware of the DJM-2000NXS cannot be executed even if the updater application is started.
Note: After the network cable is disconnected, the indication will return to 1.

③ When an IP address is assigned with Auto IP

Updating of the firmware of the DJM-2000NXS can be executed by starting the updater application.

8.3 WORK REQUIRED AFTER THE EEPROM IS REPLACED

■ Work Required after the EEPROM (IC2003) on the PCIF Assy is Replaced

As no program has been written in the EEPROM for service (blank ROM), the USB firmware must be written in it after replacement, to be performed in Checker mode.

Perform the corresponding procedures, according to the conditions indicated below.
- When the version of the firmware (USB) has not been updated: Operations in ①.
- When the version of the firmware (USB) has been updated: Operations in ① and ②.

● **Preconditions**

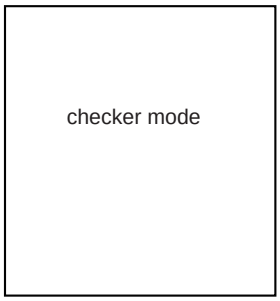
All the PC boards must be connected properly to the unit.
Connect the PC and the DJM-2000NXS via LAN then start up the application for updating in the same manner as in a case of usual updating.

①

● **Operation**

Start up Checker mode of the main unit by setting the POWER switch to ON while holding the INST FX NOISE, LINK CUE, and CH2 CUE buttons pressed.

● **LCD indication**



● **Operation**

Hold the MIDI, REMIX, and MIX buttons pressed for at least 2 seconds.

[Pin 4 of IC1601
(PA4 general-purpose port)]

<During updating>

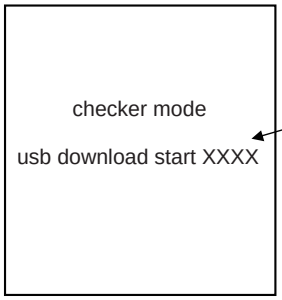
Low output

<When updating is completed>

High output

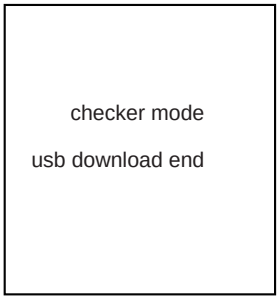
[LCD indication]

<During updating>



The file size of the updated data for the USB_IC is indicated.

<When updating is completed>



②

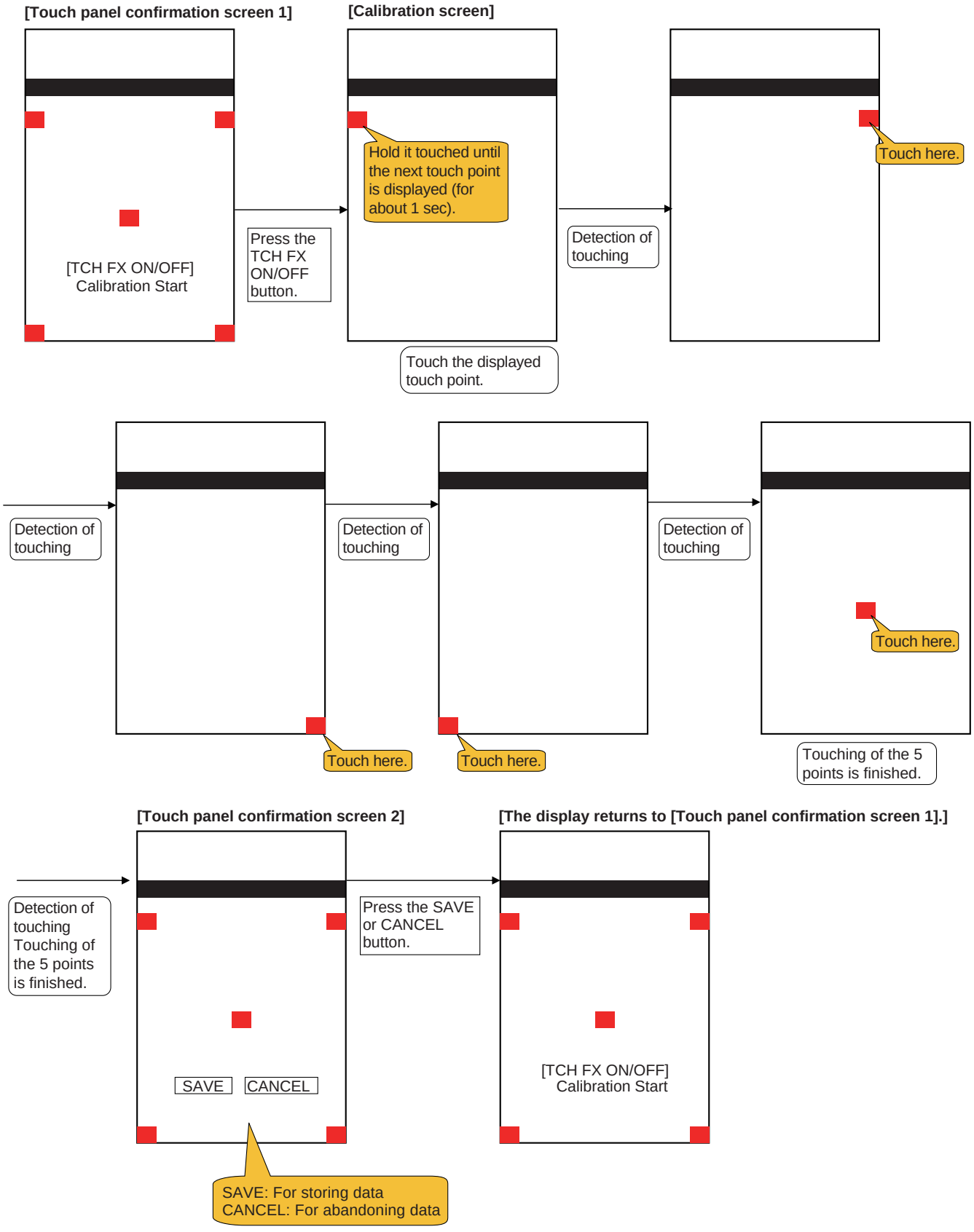
● **Additional Operation**

Additional updating procedures are required in order to keep up to the latest version.
Activate Updating mode, download the First-edition firmware file (DJM2000_vXXX.upd), then perform updating. Then reactivate Update mode, download the latest version of the update file (DJM2000_vZZZ.upd), then update the version. Confirm that the version of USB firmware has become the latest one in Test mode (Page00: Version) then terminate.

8.4 CALIBRATION ADJUSTMENT

Perform the calibration adjustment after the Touch Panel is replaced.
Enter the Test mode, then perform the following adjustment on page 14. (Refer to "6.1 TEST MODE.")

● **Page 14**



8.5 USER SETABLE ITEMS

The following data have been set in each IC.

Item for Which User's Setting is Available		Setting Value (The factory default settings are indicated in bold.)	Part No.	Part Name	Ref No.	Assy	Content to be Stored
USER SETUP	MIDI CHANNEL(ZONE1)	1 to 16 (**1**)	DYW1825	Flash ROM	IC1703	MAIN	UTILITY setting
	MIDI CHANNEL(ZONE2)	1 to 16 (**2**)					
	LCD BACK LIGHT	1 to 5 (**3**)					
	QUANTIZE	**ON**/OFF					
CLUB SETUP	DIGITAL OUT MAX LEVEL	**-19 dB**, -15 dB, -10 dB, -5 dB					
	DIGITAL SAMPLING RATE	48 kHz, **96 kHz**					
	AUTO STANDBY	**ON**/OFF					
	OUTPUT TO BOOTH MONITOR	**ON**/OFF					
	TALK OVER THRESHOLD LEVEL	-25 dB, -20 dB, **-15 dB**, -10 dB					
	TALK OVER LEVEL	-25 dB, **-20 dB**, -15 dB, -10 dB					
	TOUCH PANEL	Set it individually.					
	PEAK LIMITER	**ON**/OFF					

8.6 SHEET FOR CONFIRMATION OF THE USER SETTING

When you write down a setting item, please make use of this seat.

■ USER SET UP

*ZONE1 and ZONE2 must not have the same value settings.

ZONE1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

ZONE2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

LCD

1 2 3 4 5

QUANTIZE

ON	OFF

■ CLUB SET UP

SYSTEM

DIGITAL OUT MAX LEVEL

-19 dB	-15 dB	-10 dB	-5 dB

DIGITAL SAMPLING RATE

48 kHz	96 kHz

AUTO STANDBY

ON	OFF

MIC

OUTPUT TO BOOTH MONITOR

ON	OFF

TALK OVER THRESHOLD LEVEL

-25 dB	-20 dB	-15 dB	-10 dB

TALK OVER LEVEL

-25 dB	-20 dB	-15 dB	-10 dB

TOUCH PANEL

Perform calibration.

PEAK LIMITER

PEAK LIMITER

ON	OFF

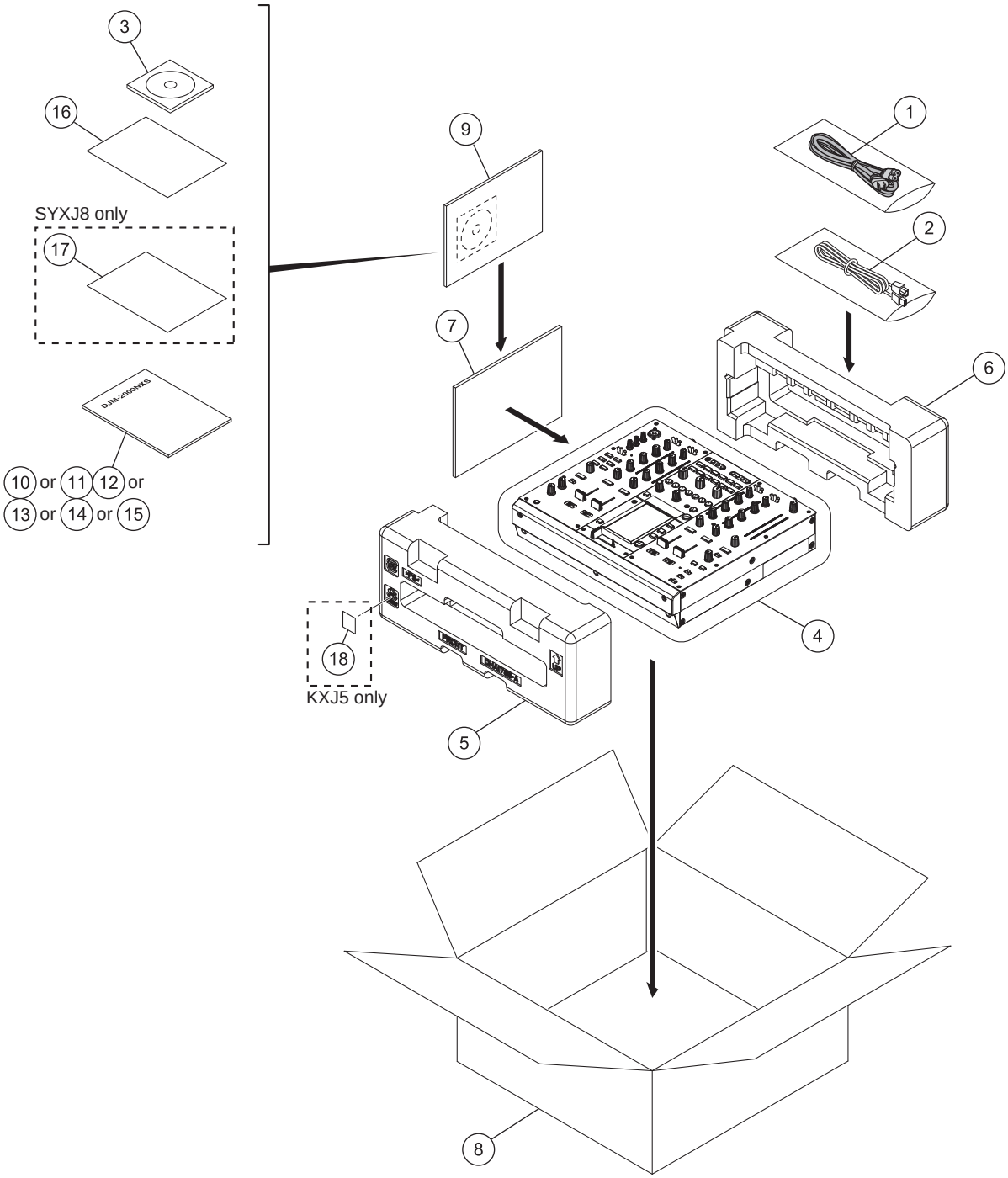
FACTORY RESET

NEVER perform FACTORY RESET before taking note of setting data.

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 ⚠ 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

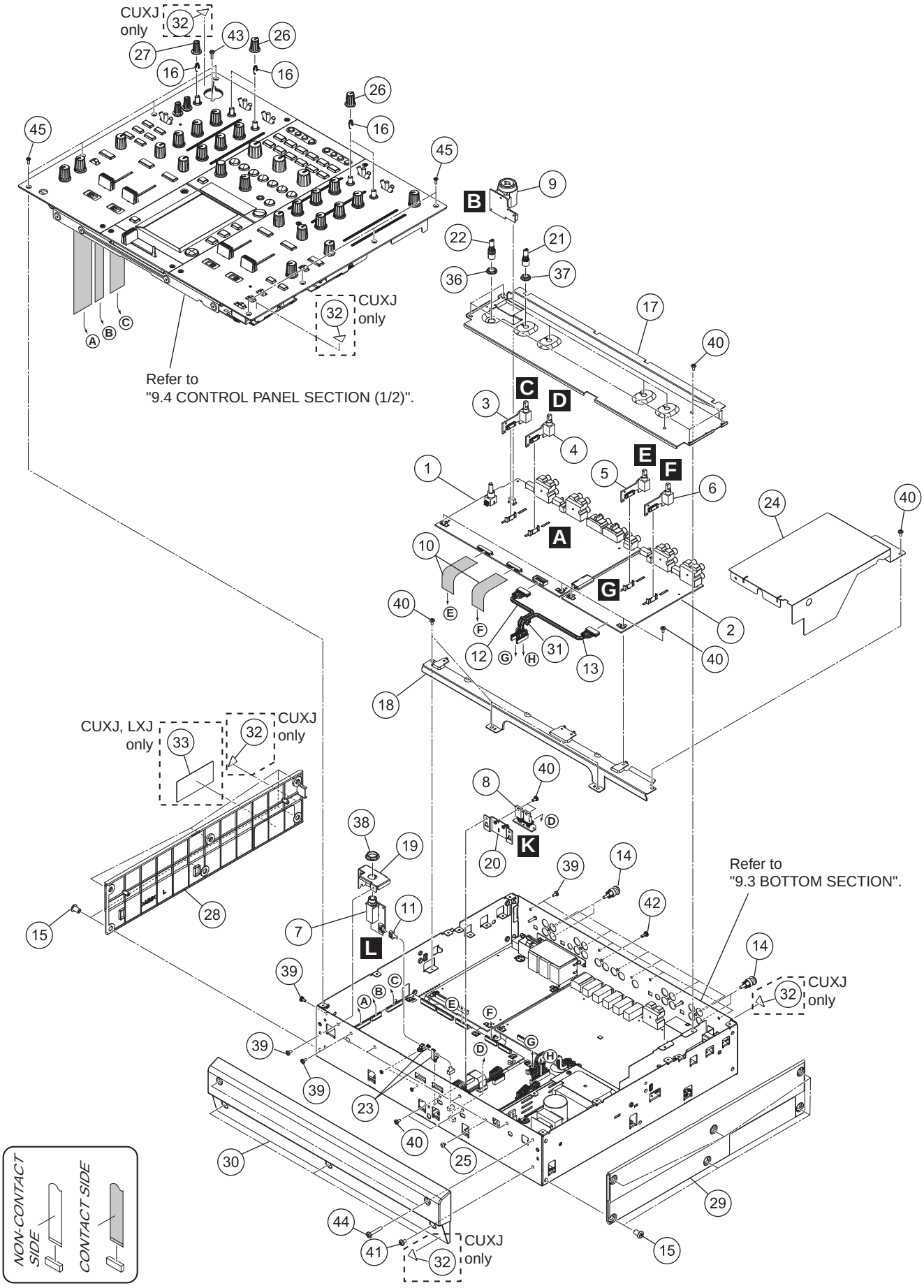
Mark	No.	Description	Part No.
⚠	1	Power Cable	See Contrast table (2)
	2	USB Cable	DDE1128
	3	CD-ROM	DXX2694
	4	Mirror Mat (1200*1000)	DHL1169
	5	Pad F (DJM-2000)	DHA1785
	6	Pad R (DJM-2000)	DHA1786
	7	Pad/ACC	DHA1893
	8	Packing Case	See Contrast table (2)
NSP	9	Polyethylene Bag	AHG7117
	10	Operating Instructions	See Contrast table (2)
	11	Operating Instructions	See Contrast table (2)
	12	Operating Instructions	See Contrast table (2)
	13	Operating Instructions	See Contrast table (2)
	14	Operating Instructions	See Contrast table (2)
	15	Operating Instructions	See Contrast table (2)
NSP	16	Leaflet	See Contrast table (2)
NSP	17	Warranty	See Contrast table (2)
NSP	18	Label/RCY	See Contrast table (2)

(2) CONTRAST TABLE

DJM-2000NXS/CUXJ, SYXJ8, LXJ, KXJ5 and XJCN5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-2000NXS /CUXJ	DJM-2000NXS /SYXJ8	DJM-2000NXS /LXJ	DJM-2000NXS /KXJ5	DJM-2000NXS /XJCN5
⚠	1	Power Cable	DDG1108	ADG7062	ADG7062	ADG7115	ADG7105
	8	Packing Case	DHG3177	DHG3176	DHG3178	DHG3181	DHG3180
	10	Operating Instructions	DRB1634	Not used	Not used	Not used	Not used
	11	Operating Instructions	Not used	DRB1635	Not used	Not used	Not used
	12	Operating Instructions	Not used	DRB1648	Not used	Not used	Not used
	13	Operating Instructions	Not used	Not used	DRB1636	Not used	Not used
	14	Operating Instructions	Not used	Not used	Not used	DRB1638	Not used
	15	Operating Instructions	Not used	Not used	Not used	Not used	DRB1637
NSP	16	Leaflet	DRH1201	DRH1201	DRH1201	DRH1200	DRH1200
NSP	17	Warranty	Not used	ARY7158	Not used	Not used	Not used
NSP	18	Label/RCY	Not used	Not used	Not used	DRW2541	Not used

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

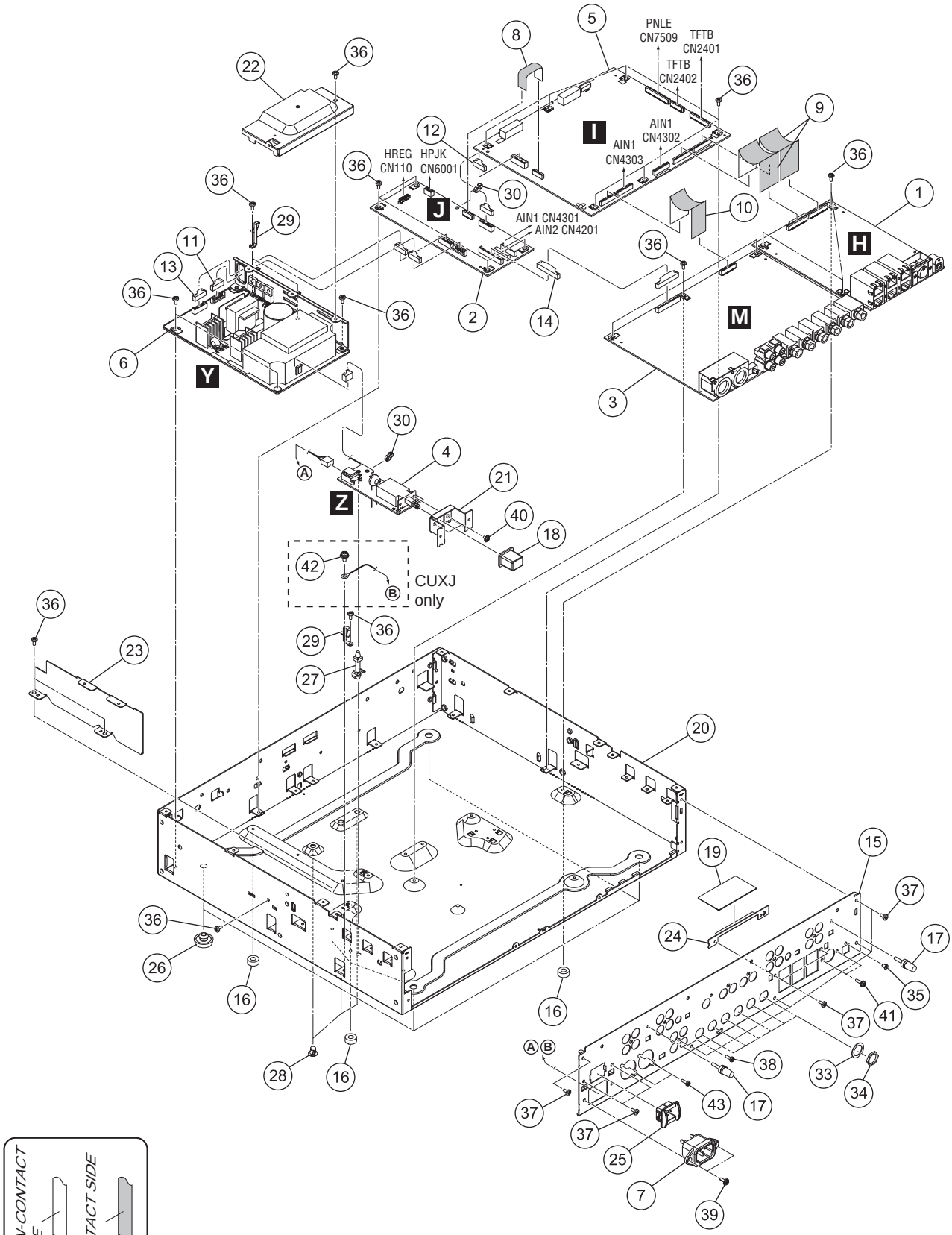
Mark	No.	Description	Part No.
	1	AIN1 Assy	DWX2922
	2	AIN2 Assy	DWX2923
	3	TRIM1 Assy	DWX2935
	4	TRIM2 Assy	DWX2936
	5	TRIM3 Assy	DWX2937
	6	TRIM4 Assy	DWX2938
	7	HPJK Assy	DWX3421
	8	HREG Assy	DWX3423
	9	MCJK Assy	DWX2934
	10	20P FFC	DDD1510
	11	Connector Assy	PF04PP-D20
	12	Connector Assy	PF07EE-D10
	13	Connector Assy	PF07EE0D12
	14	Plug/Pin	DKM1024
	15	Rivet (Plastic)	AEC1877
	16	Spring/Vl4	DBH1788
	17	Trim Stay	DNF1813
	18	Input Stay	DNF1819
	19	HP Stay	DNF1820
	20	Heatsink	DNF1850
	21	Extension Shaft A	DNK5365
	22	Extension Shaft B	DNK5366
	23	Locking Mini Clamp	DEC2439
	24	Barrier (W)	DEC3271
	25	Push Rivet	XEC3034
	26	Rotary SW Knob S (C)	DAA1204
	27	Knob/RSW	DAA1308
	28	Side Panel L	DNK5363
	29	Side Panel R	DNK5364
	30	Front Panel	DNK6141
	31	Binder	ZCA-SKB90BK
NSP	32	Label	See Contrast table (2)
NSP	33	Caution Label	See Contrast table (2)
	34	• • • • •	
	35	• • • • •	
	36	Flange Nut M9	DBN1008
	37	Flange Nut M7	DBN1011
	38	Nut M12	DBN1018
	39	Screw	BBZ30P060FTB
	40	Screw	BBZ30P060FTC
	41	Screw	BCZ40P060FTB
	42	Screw	BPZ30P080FTB
	43	Screw	BPZ30P100FTB
	44	Screw	BSZ40P220FTB
	45	Screw	CCZ30P080FTB

(2) CONTRAST TABLE

DJM-2000NXS/CUXJ, SYXJ8, LXJ, KXJ5 and XJCN5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-2000NXS /CUXJ	DJM-2000NXS /SYXJ8	DJM-2000NXS /LXJ	DJM-2000NXS /KXJ5	DJM-2000NXS /XJCN5
NSP	32	Label	DRW1975	Not used	Not used	Not used	Not used
NSP	33	Caution Label	DRW2429	Not used	DRW2430	Not used	Not used

9.3 BOTTOM SECTION



(1) BOTTOM SECTION PARTS LIST

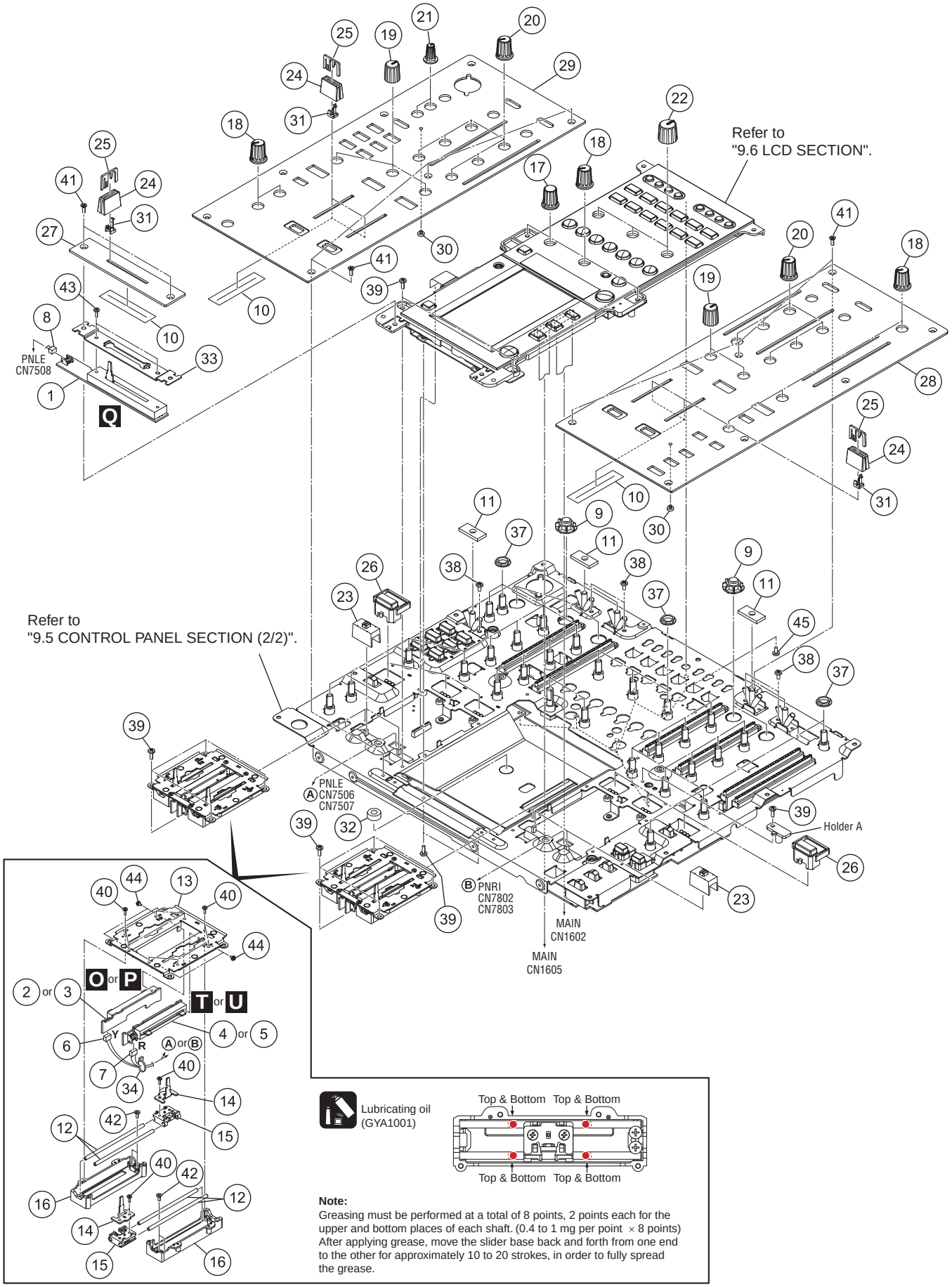
Mark	No.	Description	Part No.
	1	PCIF Assy	DWX2925
	2	HAMP Assy	DWX3422
	3	AOUT Assy	DWX3420
	4	ACSW Assy	DWX2918
	5	MAIN Assy	DWX3424
⚠	6	POWER SUPPLY Assy	DWR1492
⚠	7	AC Inlet Assy	See Contrast table (2)
	8	12P FFC	DDD1507
	9	26P FFC	DDD1509
	10	20P FFC	DDD1510
	11	Connector Assy	PF06EE-D20
	12	Connector Assy	PF08PP-D10
	13	Connector Assy	PF08PP-D20
	14	Connector Assy	PF12EE-D10
	15	Rear Panel	See Contrast table (2)
NSP	16	Spacer	AEB7092
	17	Terminal Screw	AKE-031
	18	Power Knob	DAC2306
	19	Barrier (LAN)	DEC3169
NSP	20	Chassis	DNA1362
	21	Bracket PSW	DNF1759
	22	Power Shield	DNF1815
	23	AC Shield	DNF1816
	24	Earth Plate	DNF1858
	25	Power Knob Guard	DNK4534
	26	Foot (Rubber)	REC-434
NSP	27	PC Support	VEC1584
NSP	28	PC Support	VEC1749
	29	Cord Clamper (Steel)	RNH-184
	30	Binder	ZCA-SKB90BK
	31	•••••	
	32	•••••	
	33	Washer	DEC2920
	34	Nut (M12)	NKX2FNI
	35	Screw (M3*5)	DBA1340
	36	Screw	BBZ30P060FTC
	37	Screw	BBZ30P060FTB
	38	Screw	BPZ30P080FTB
	39	Screw	IBZ30P080FTB
	40	Screw	IMZ30P040FTC
	41	Screw	PMH30P100FTB
	42	Screw	See Contrast table (2)
	43	Screw	PPZ30P080FTB

(2) CONTRAST TABLE

DJM-2000NXS/CUXJ, SYXJ8, LXJ, KXJ5 and XJCN5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-2000NXS /CUXJ	DJM-2000NXS /SYXJ8	DJM-2000NXS /LXJ	DJM-2000NXS /KXJ5	DJM-2000NXS /XJCN5
⚠	7	AC Inlet Assy/3P	DKP3927	Not used	Not used	Not used	Not used
⚠	7	AC Inlet Assy/2P	Not used	DKP3762	DKP3762	DKP3762	DKP3762
	15	Rear Panel	DNC2091	DNC2091	DNC2091	DNC2091	DNC2092
	42	Screw	PMH40P080FTC	Not used	Not used	Not used	Not used

9.4 CONTROL PANEL SECTION (1/2)

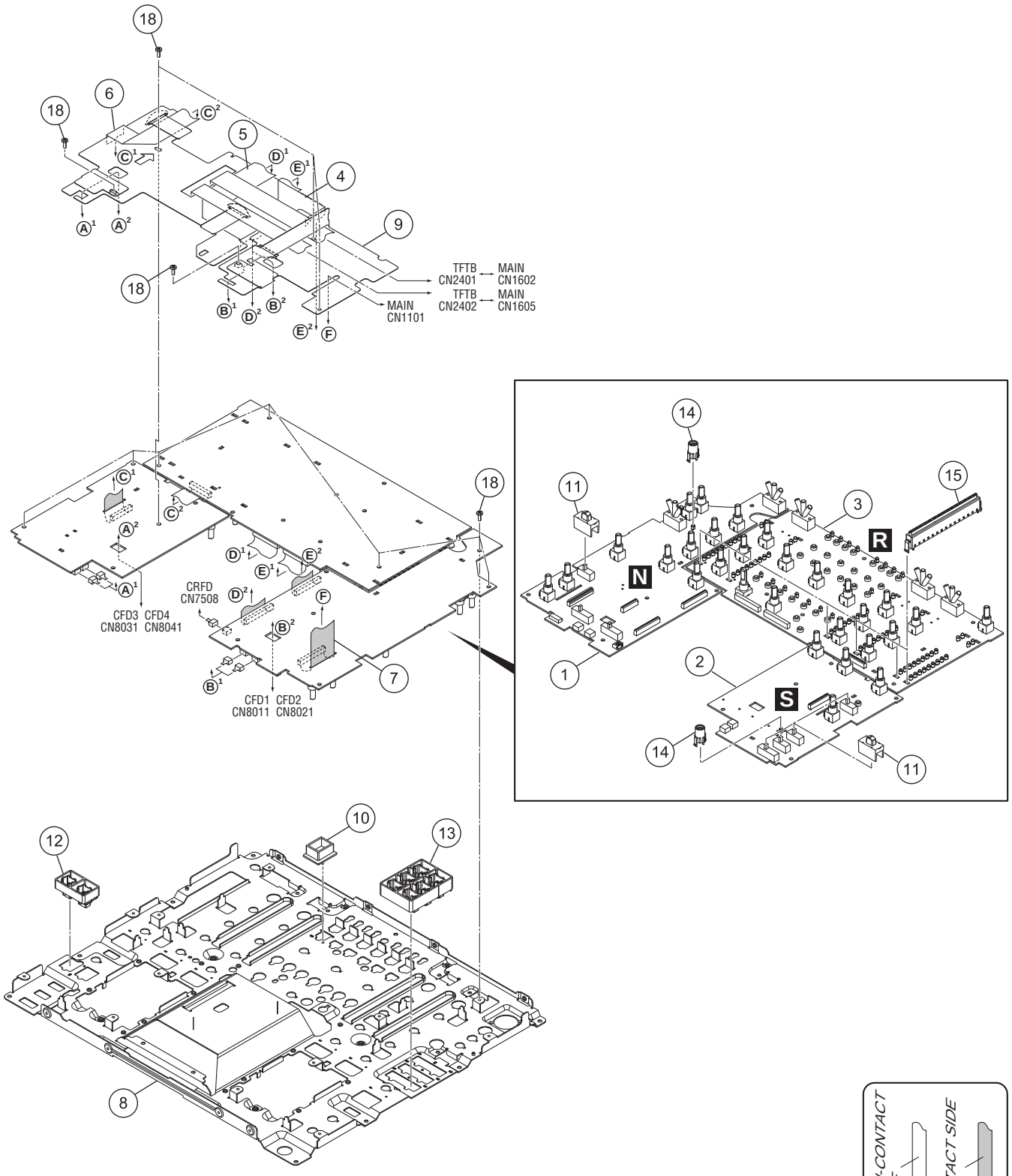


CONTROL PANEL SECTION (1/2) PARTS LIST

Mark	No.	Description	Part No.
	1	CRFD Assy	DWX3415
	2	CFD1 Assy	DWX3416
	3	CFD2 Assy	DWX3417
	4	CFD3 Assy	DWX3418
	5	CFD4 Assy	DWX3419
	6	Connector Assy	PF03PP2B12
	7	Connector Assy	PF03PP4B12
	8	Connector Assy	PF03PP-B10
	9	Bush	DNK5367
	10	Fader Packing	DEC2903
	11	SW Packing	DED1177
NSP	12	Guide Shaft (S)	DLA1918
	13	Stay/CHF	DNF1925
	14	Lever Plate	DNH2954
	15	Slider Base	DNK5851
	16	Shaft Holder	DNK5852
	17	Rotary SW Knob (C)	DAA1180
	18	Rotary Knob (BN)	DAA1220
	19	Knob (RES)	DAA1250
	20	Knob/RSW	DAA1305
	21	Knob/RSW	DAA1307
	22	Knob/FRE	DAA1309
	23	Slide SW Cap (W)	DAC2401
	24	Slider Knob 1	DAC2684
	25	Slider Knob 2	DAC2685
	26	Button/CUE	DAC2882
	27	Panel/CRF	DAH2913
	28	Control Panel R	DNB1205
	29	Control Panel L	DNB1206
	30	Lens	DNK4532
	31	Slider Knob Stopper	DNK5888
NSP	32	Spacer	AEB7092
	33	CRF Stay	DNF1855
	34	Binder	ZCA-SKB90BK
	35	• • • • •	
	36	• • • • •	
	37	Flange Nut M9	DBN1008
	38	Screw	AMZ26P040FTC
	39	Screw	BBZ30P060FTC
	40	Screw	BPZ20P060FTC
	41	Screw	CCZ30P080FTB
	42	Screw	CPZ26P080FTC
	43	Screw	IMZ30P040FTC
	44	Screw	PMH20P040FTC
	45	Screw	BPZ30P080FTB

9.5 CONTROL PANEL SECTION (2/2)

• Bottom view

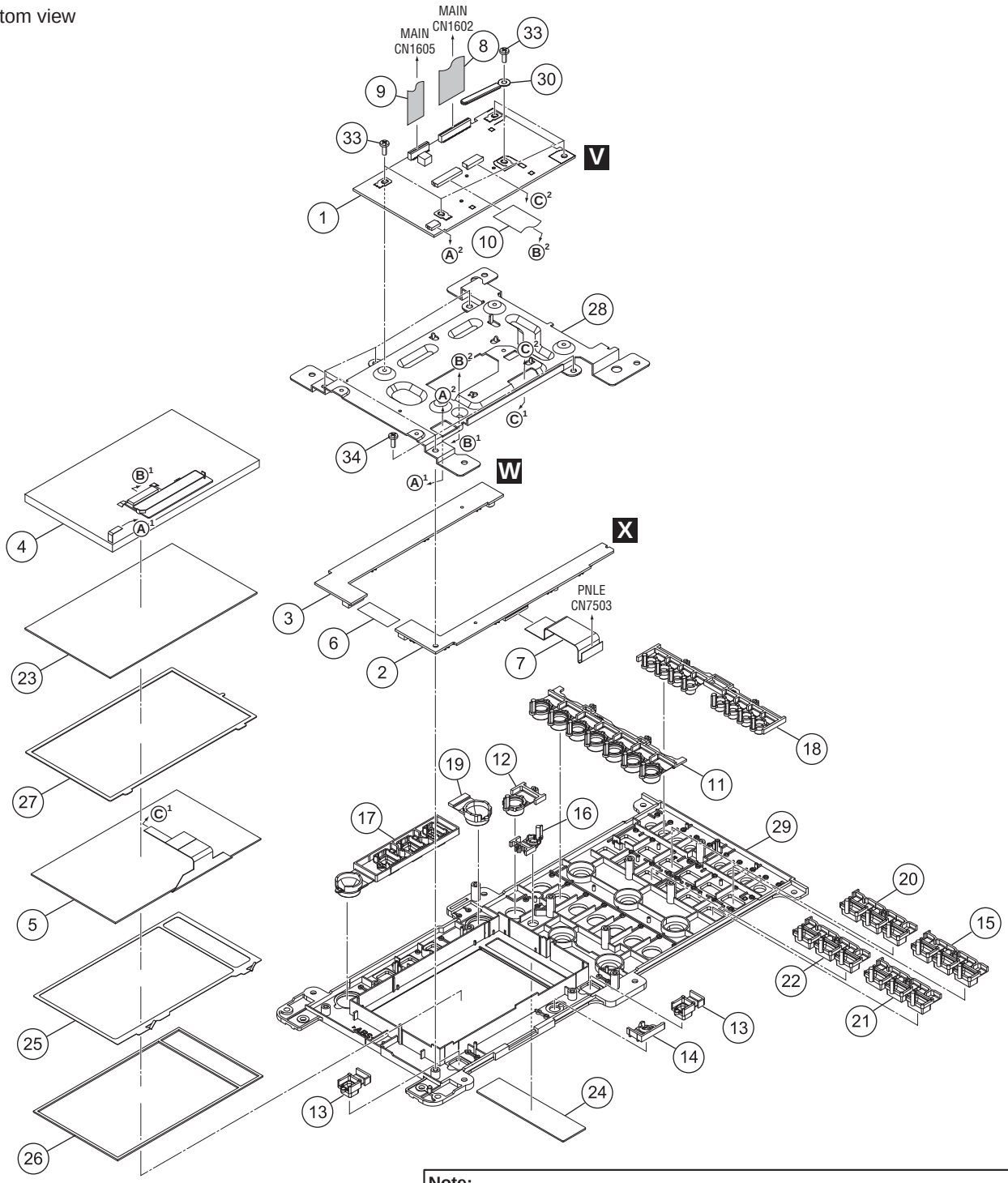


CONTROL PANEL SECTION (2/2) PARTS LIST

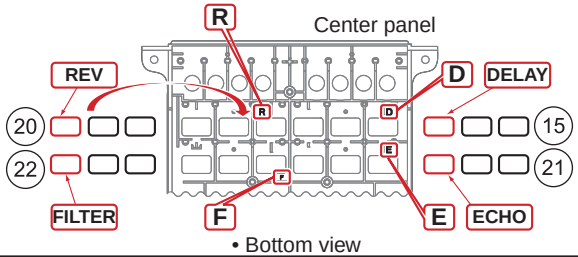
Mark	No.	Description	Part No.
	1	PNLE Assy	DWX3413
	2	PNRI Assy	DWX3414
	3	PNCE Assy	DWX3426
	4	32P FFC	DDD1504
	5	32P FFC	DDD1505
	6	25P FFC	DDD1506
	7	32P FFC	DDD1508
NSP	8	Panel Stay	DND1274
	9	Barrier/PNL	DMR1012
	10	Light Shield	DNK5583
	11	Slide SW Cap	DAC2400
	12	Button (MIDI)	DAC2511
	13	Button/CFX	DAC2889
	14	Lens Holder	DNK4533
	15	Lebel Meter Assy	DXB1882
	16	• • • • •	
	17	• • • • •	
	18	Screw	BBZ30P060FTC

9.6 LCD SECTION

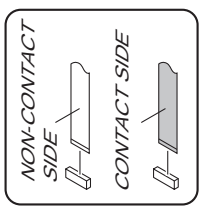
• Bottom view



Note:
The shape of the groups of buttons 15, 20, 21, and 22 is the same.
To identify the attachment position of each group of buttons during reassembly, the initial letter of the name of the left button of a group is engraved on the back of the Center panel (No. 29).



• Bottom view

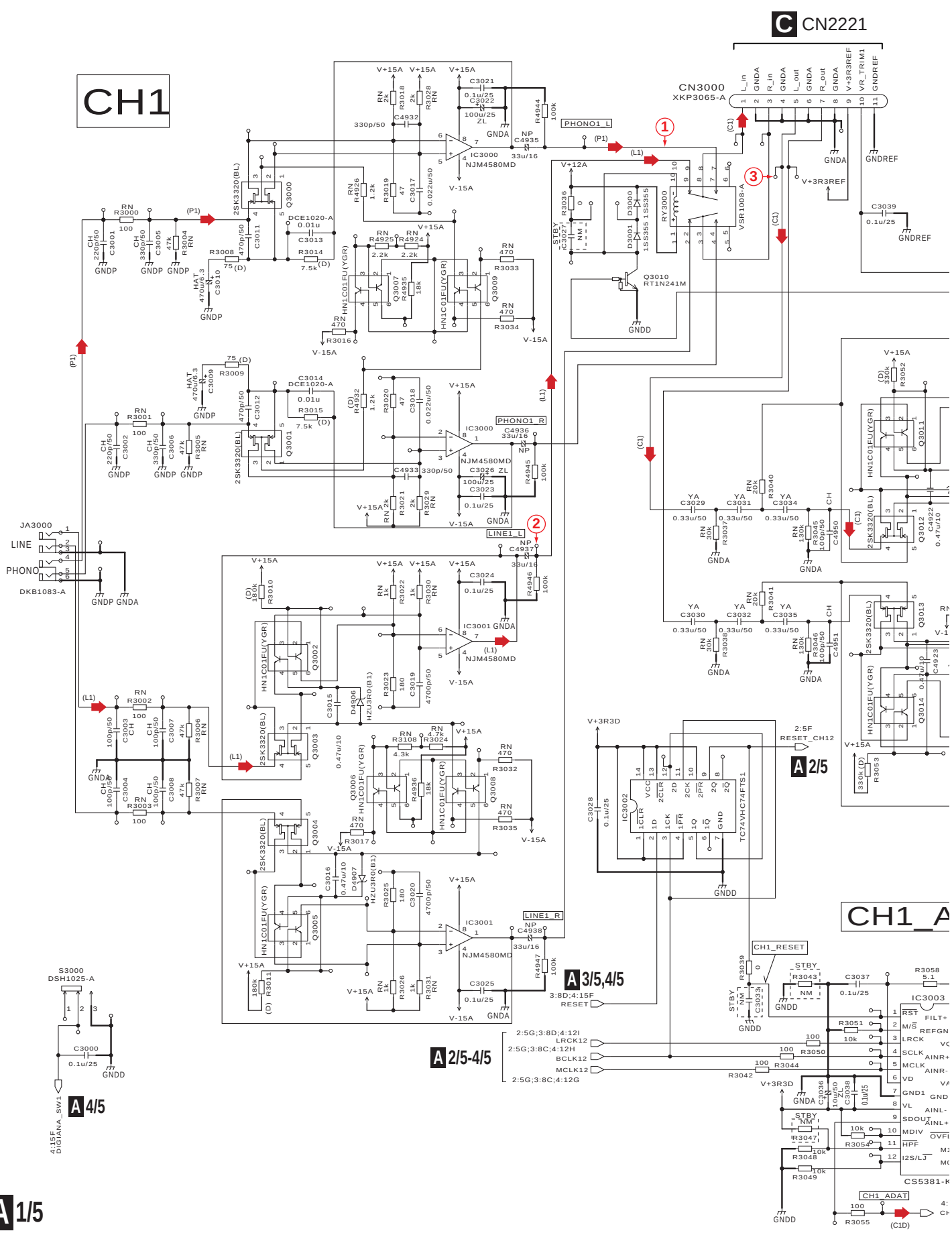


LCD SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	TFTB Assy	DWX2921
	2	TPLE Assy	DWX3010
	3	TPRI Assy	DWX3011
	4	LCD	CWX3868
	5	Touch Panel	DSX1085
	6	12P FFC	DDD1507
	7	19P FFC	DDD1513
	8	26P FFC	DDD1514
	9	16P FFC	DDD1515
	10	40P FFC	DDD1541
	11	Button/BEAT	DAC2881
	12	Button/TAP	DAC2883
	13	Button/CUES	DAC2884
	14	Button (SETTING)	DAC2506
	15	Button/FXA	DAC2886
	16	Button (AUTO)	DAC2508
	17	Button/REMIX	DAC2888
	18	Button/SEL	DAC2891
	19	Button (FX)	DAC2513
	20	Button/FXB	DAC2893
	21	Button/FXC	DAC2894
	22	Button/FXD	DAC2895
	23	Protect Plate	DAH2767
	24	Display Plate (PC)	DAH2768
	25	TFT Earth Spring	DBK1367
	26	Touch Panel Pad	DEC3168
	27	Touch Panel Spacer	DEC3269
	28	LCD Stay	DNF1818
	29	Center Panel	DNK6140
	30	Cord Clamper (Steel)	RNH-184
	31	• • • • •	
	32	• • • • •	
	33	Screw	BBZ30P060FTC
	34	Screw	BPZ30P080FTB

10. SCHEMATIC DIAGRAM

10.1 AIN1 ASSY (1/5)



A 1/5 AIN1 ASSY (DWX2922)

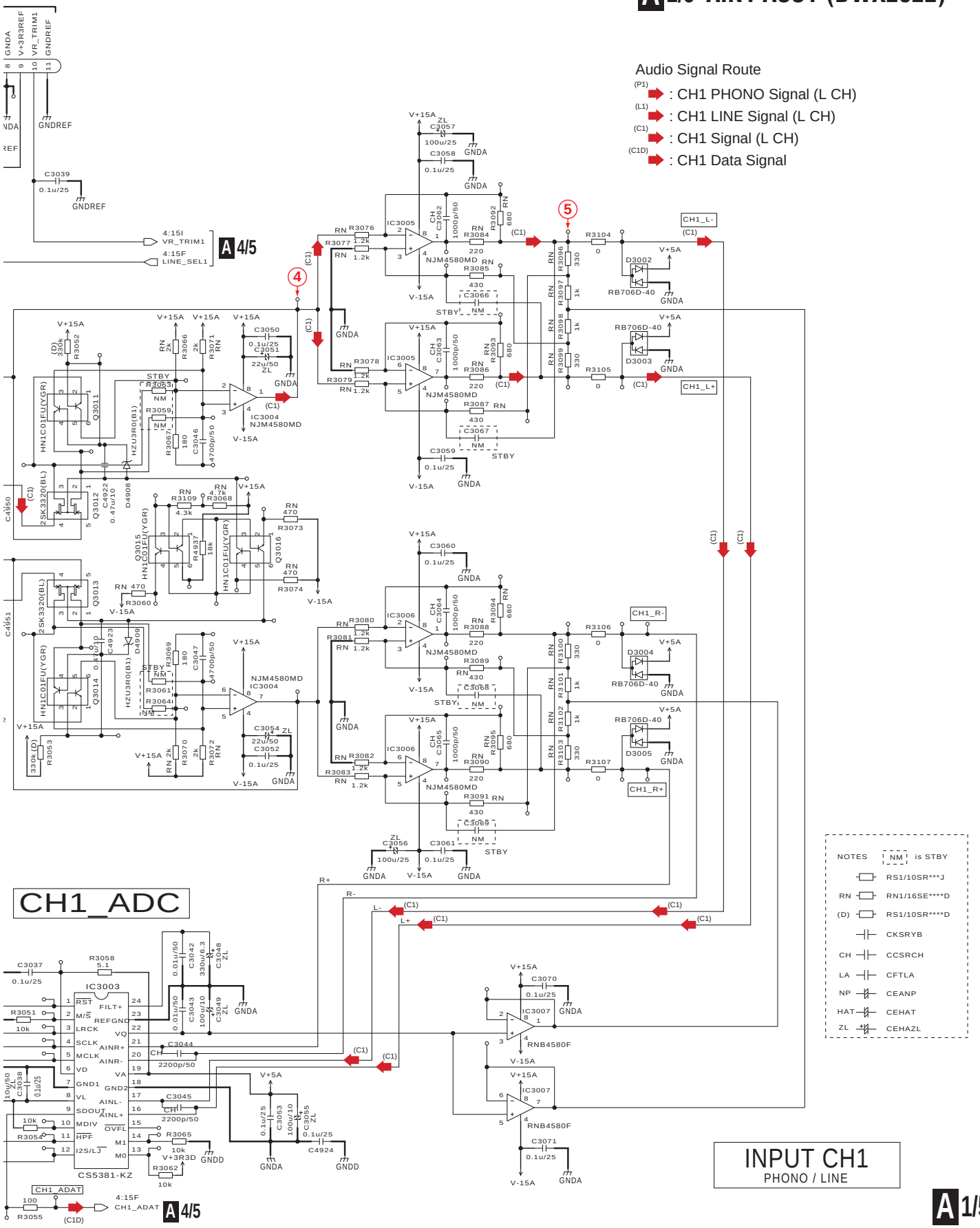
Audio Signal Route

(P1) : CH1 PHONO Signal (L CH)

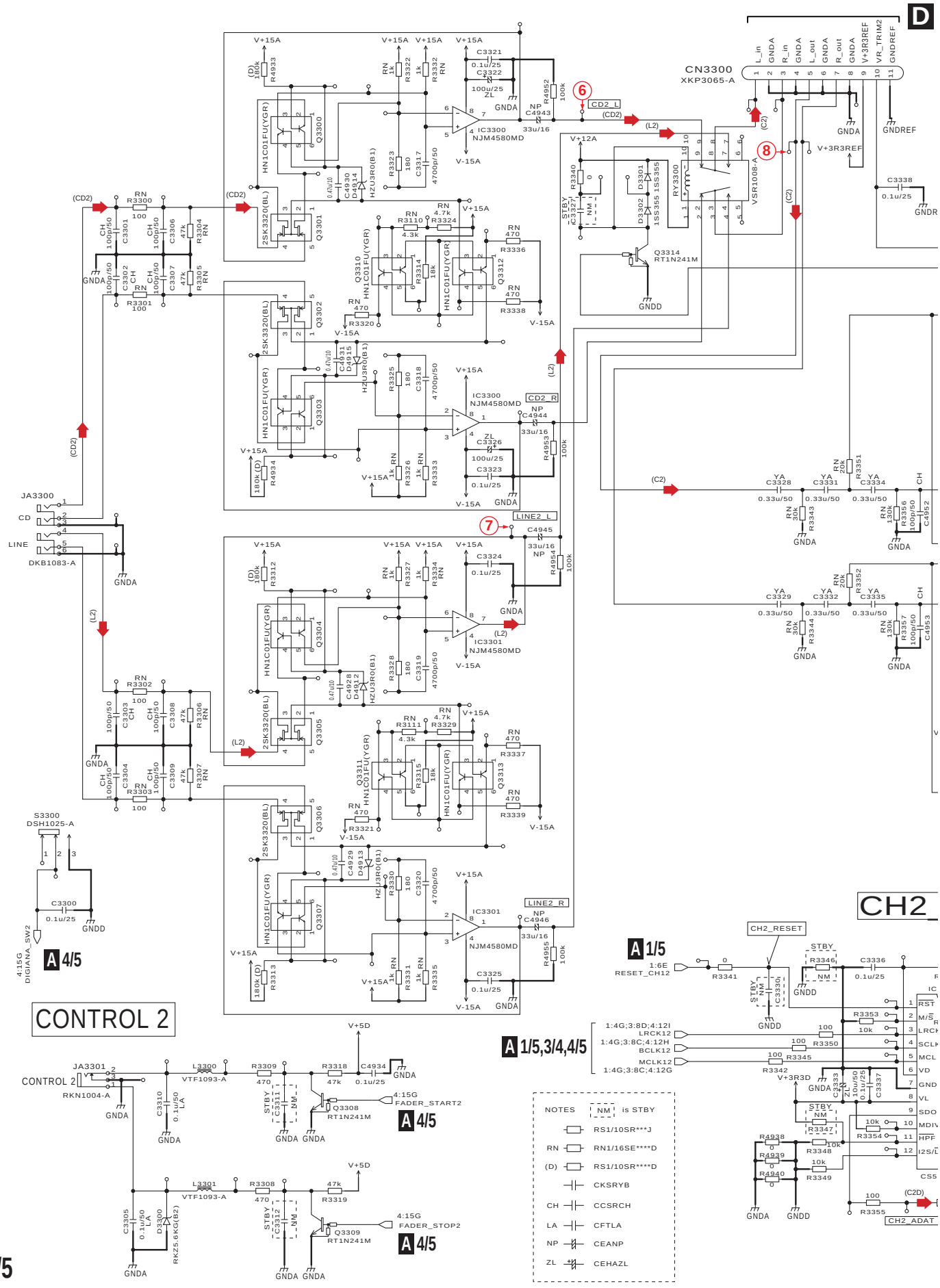
(L1) : CH1 LINE Signal (L CH)

(C1) : CH1 Signal (L CH)

(C1D) : CH1 Data Signal



10.2 AIN1 ASSY (2/5)

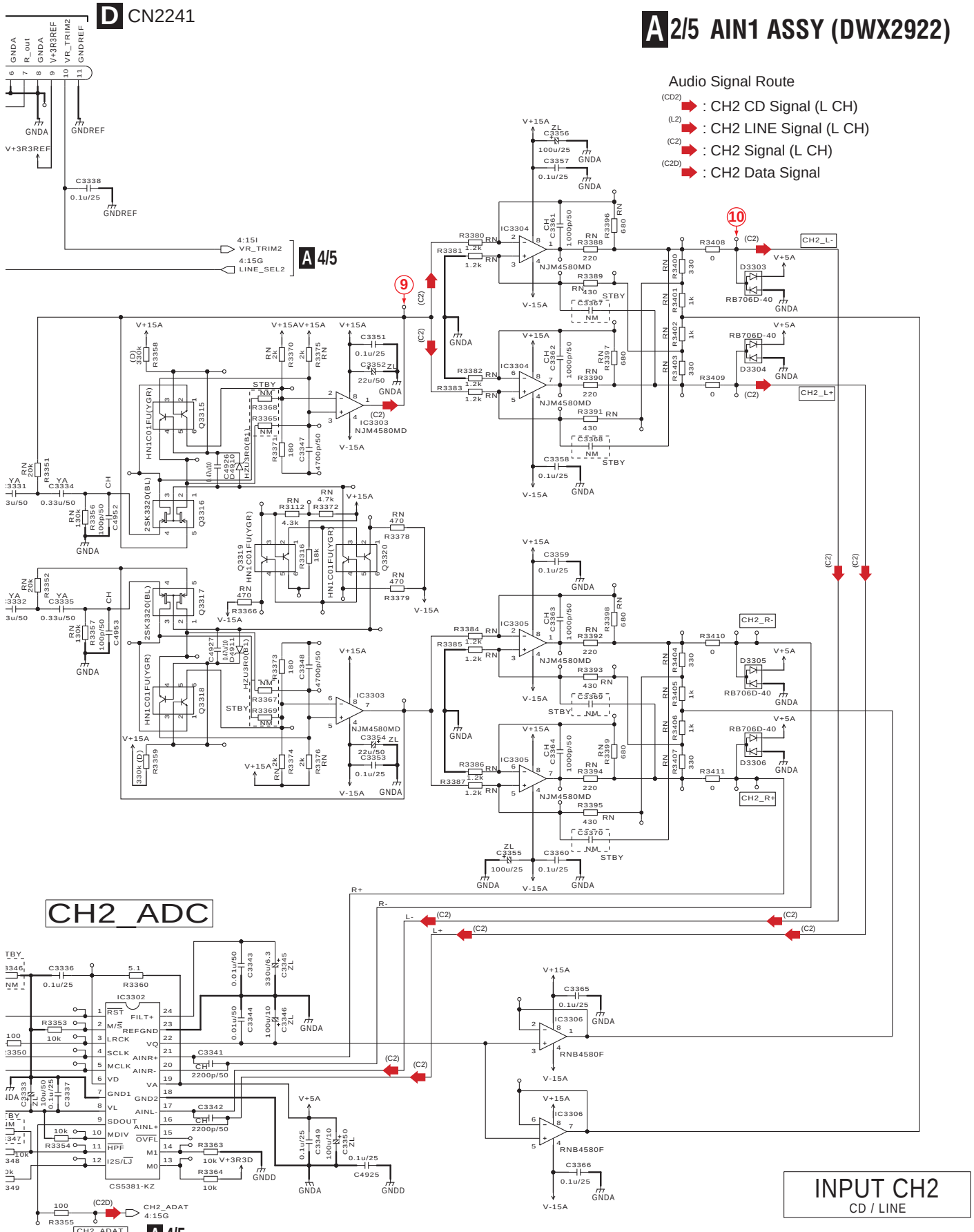


A 2/5 AIN1 ASSY (DWX2922)

D CN2241

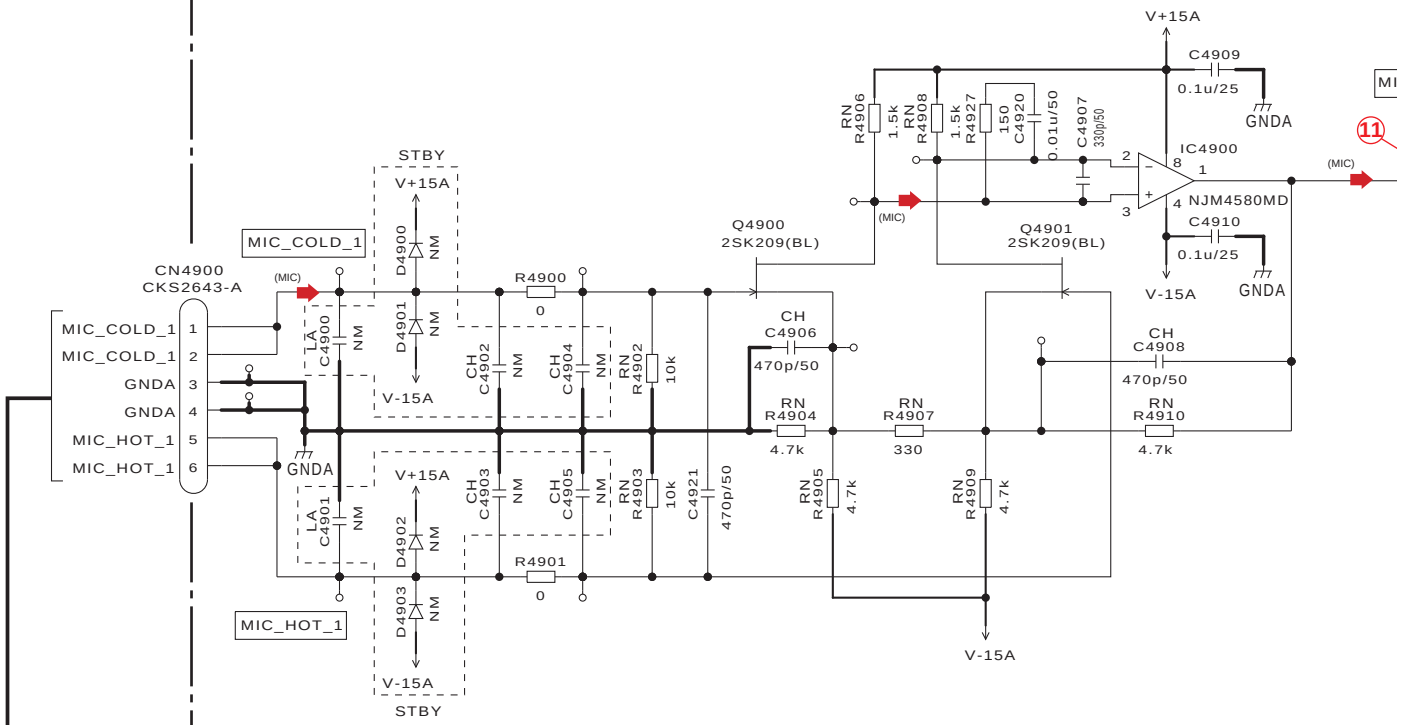
Audio Signal Route

(CD2) : CH2 CD Signal (L CH)
(L2) : CH2 LINE Signal (L CH)
(C2) : CH2 Signal (L CH)
(C2D) : CH2 Data Signal

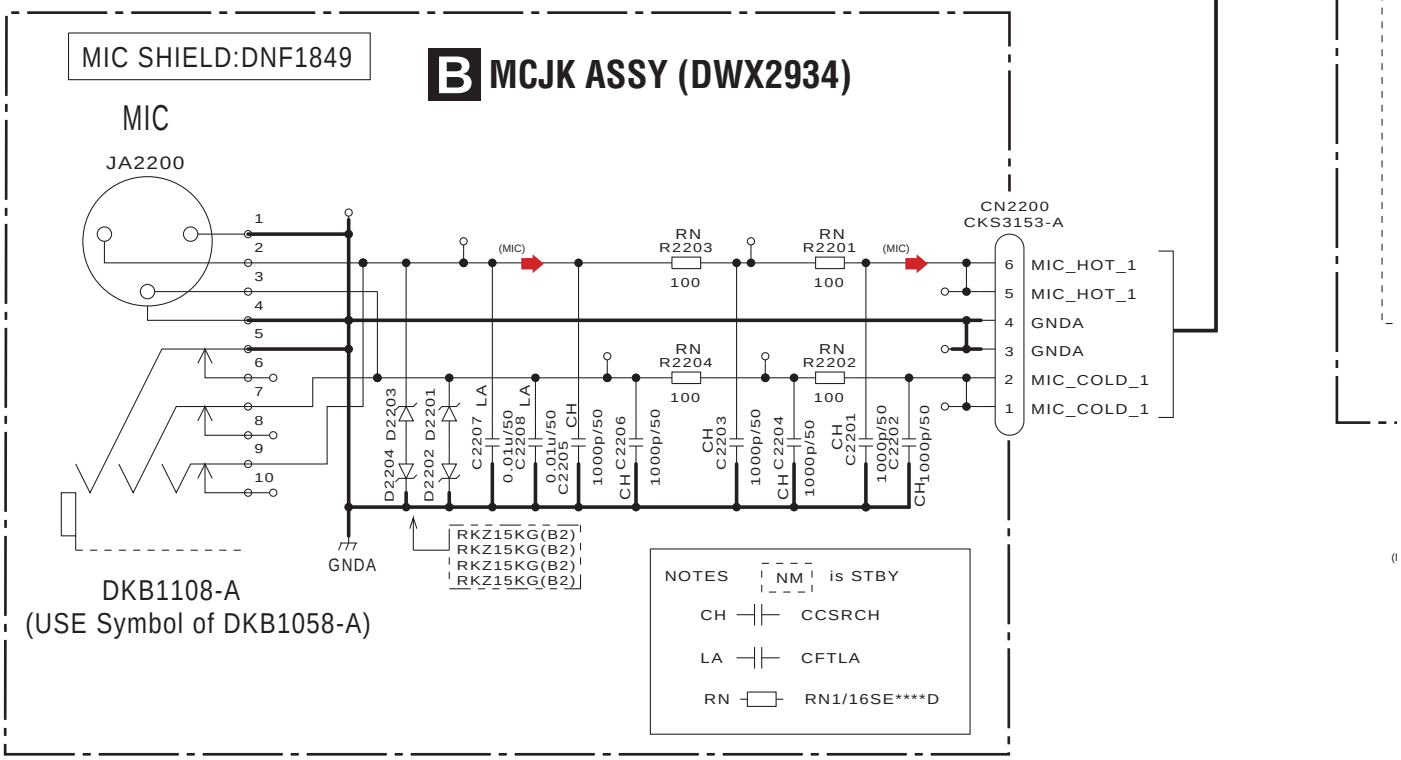


10.3 AIN1 (3/5) and MCJK ASSYS

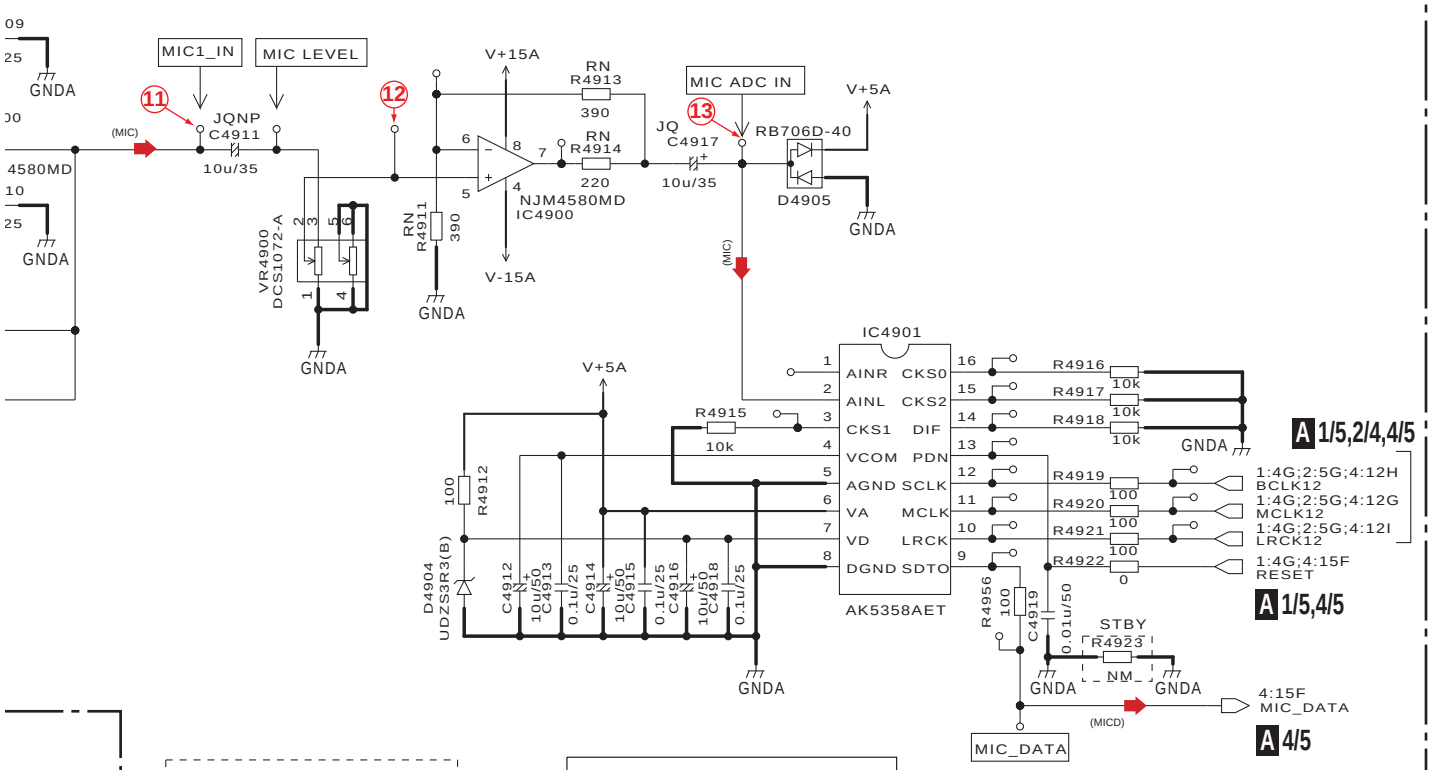
A 3/5 AIN1 ASSY (DWX2922)



B MCJK ASSY (DWX2934)



A 3/5 B



MIC_ADC

MIC AMP

NOTES NM is STBY

RS1/10SR***J

RN RN1/16SE****D

CKSRYB

CH CCSRCH

LA CFTLA

CEAT

JQ CEJQ

JQNP CEJQNP

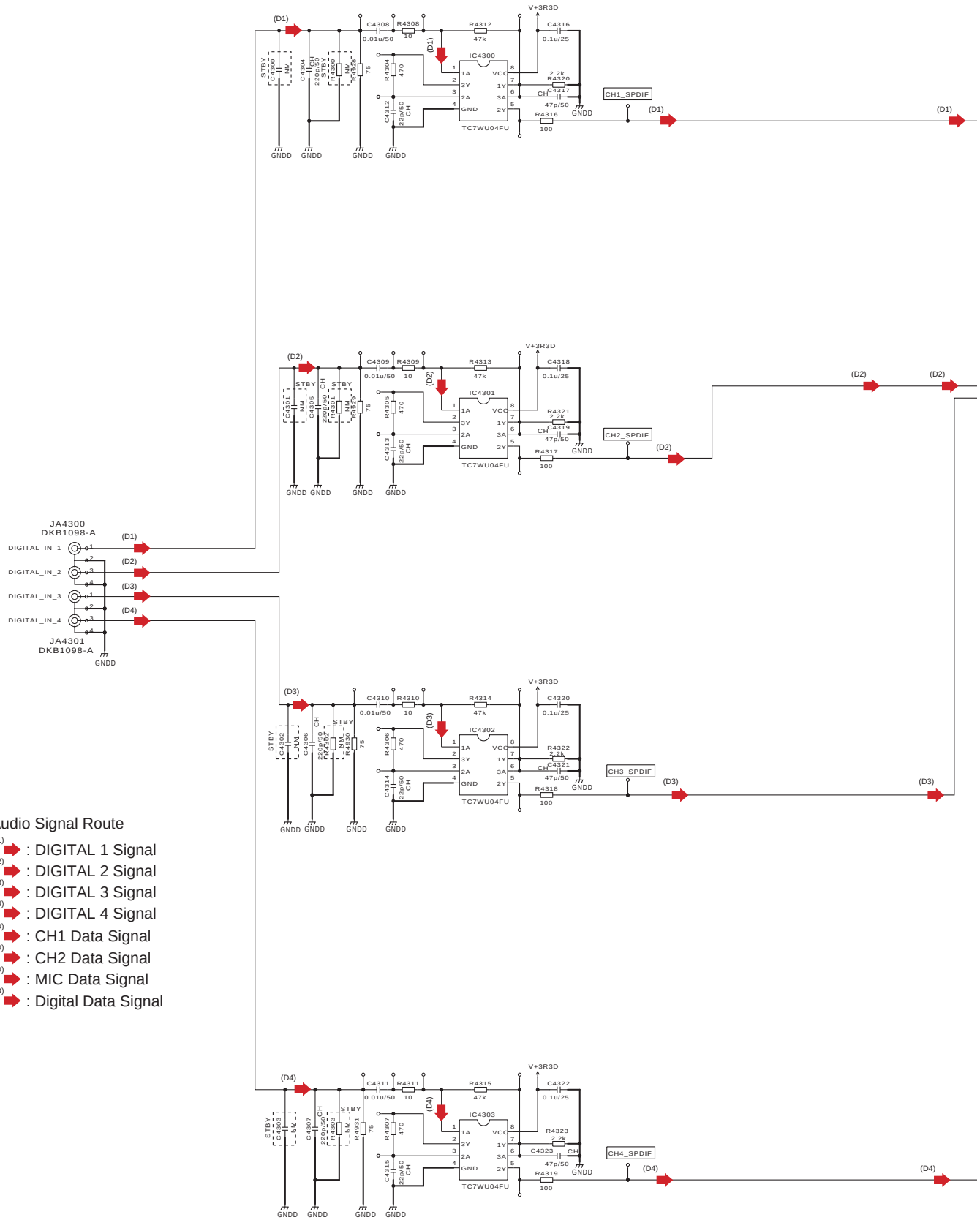
Audio Signal Route

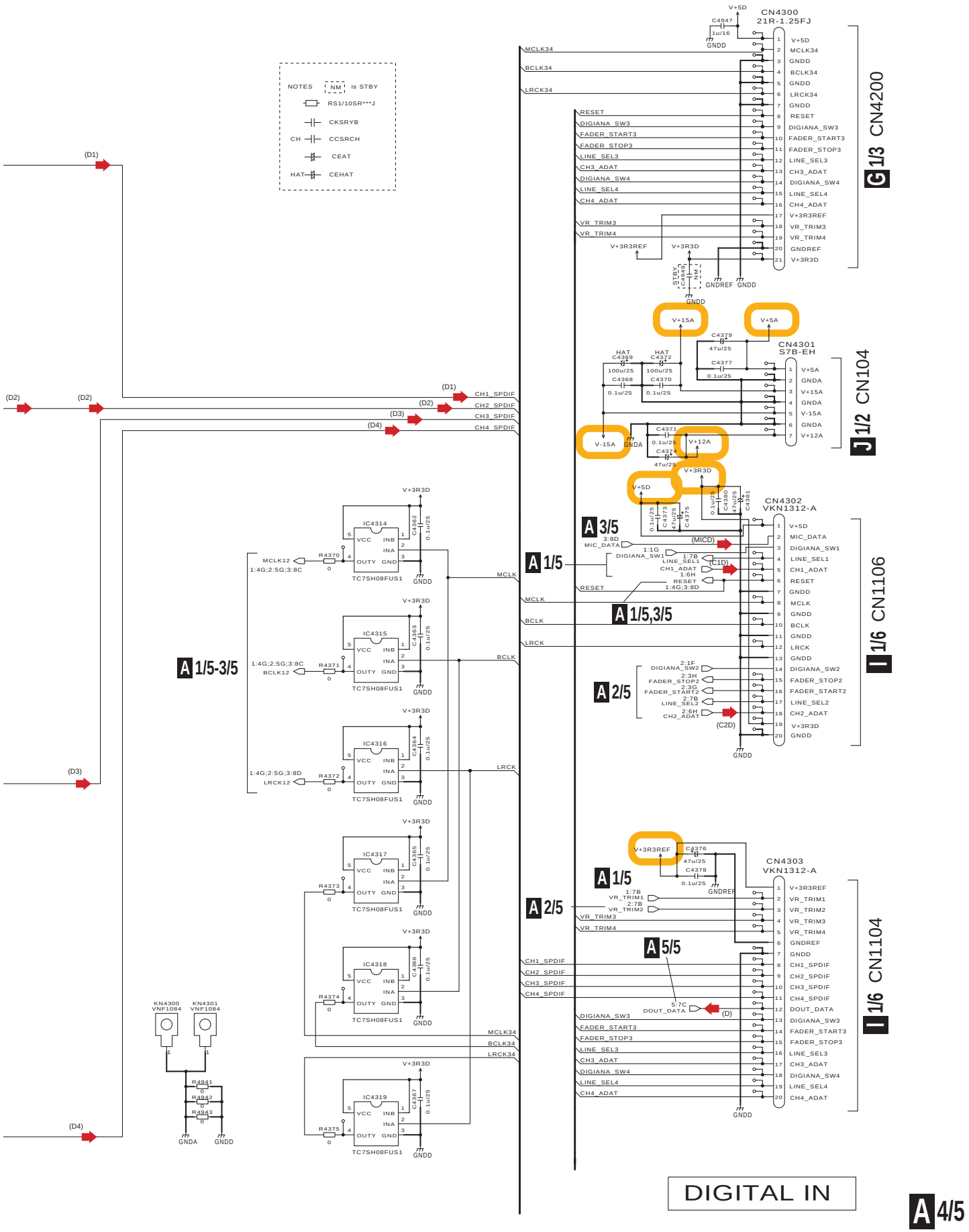
(MIC) : MIC Signal (L CH)

(MICD) : MIC Data Signal

10.4 AIN1 ASSY (4/5)

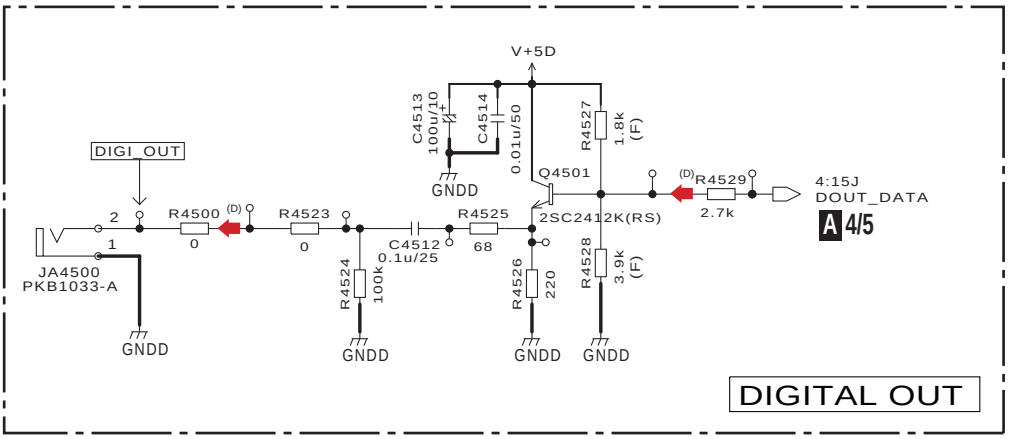
A 4/5 AIN1 ASSY (DWX2922)

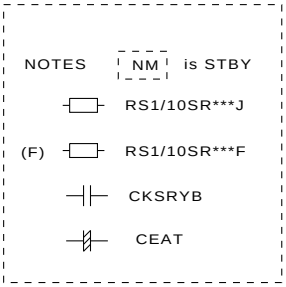



NOTES NM is STBY
RS1/10SR***J
CKSRYB
CH CCSRCH
CEAT
HAT CEHAT
CN4300
21R-1.25FJ
CN4301
S7B-EH
CN4302
VKN1312-A
CN4303
VKN1312-A
TC7SH08FUS1
KN4300 VNF1084
KN4301 VNF1084
CH1_SPDIF
CH2_SPDIF
CH3_SPDIF
CH4_SPDIF
MCLK34
BCLK34
LRCK34
MCLK
BCLK
LRCK
A 1/5-3/5
A 1/5
A 2/5
A 3/5
A 1/5,3/5
A 5/5
G 1/3 CN4200
J 1/2 CN104
I 1/6 CN1106
I 1/6 CN1104
DIGITAL IN

10.5 AIN1 (5/5), TRIM1 and TRIM2 ASSYS

A 5/5 AIN1 ASSY (DWX2922)





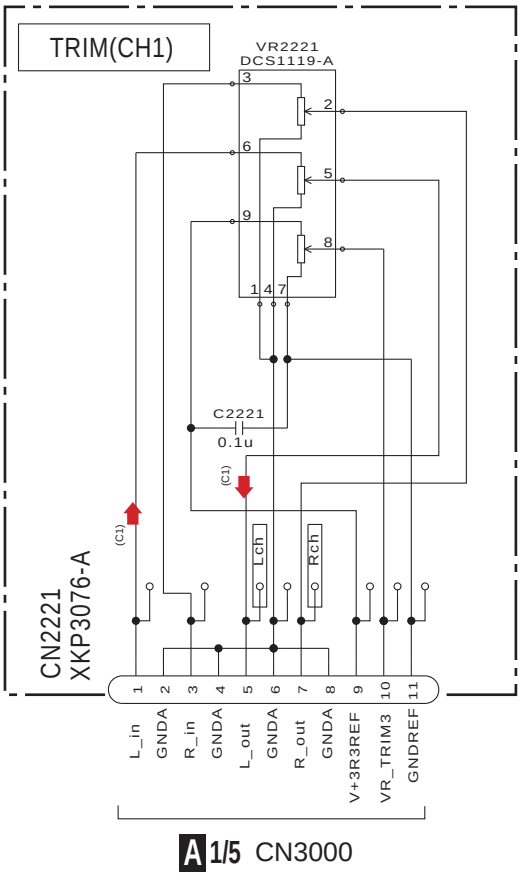
Audio Signal Route

(D) : Digital Data Signal

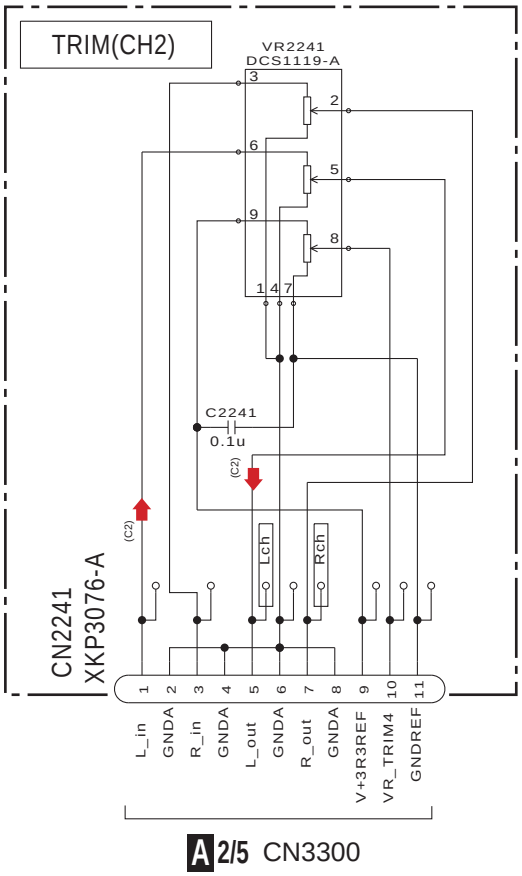
(C1) : CH1 Signal (L CH)

(C2) : CH2 Signal (L CH)

C TRIM1 ASSY (DWX2935)



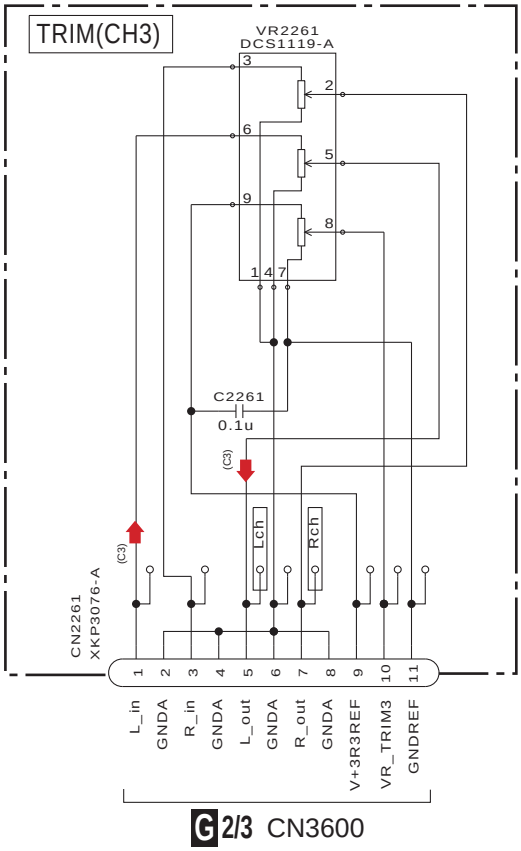
D TRIM2 ASSY (DWX2936)



A 5/5 C D

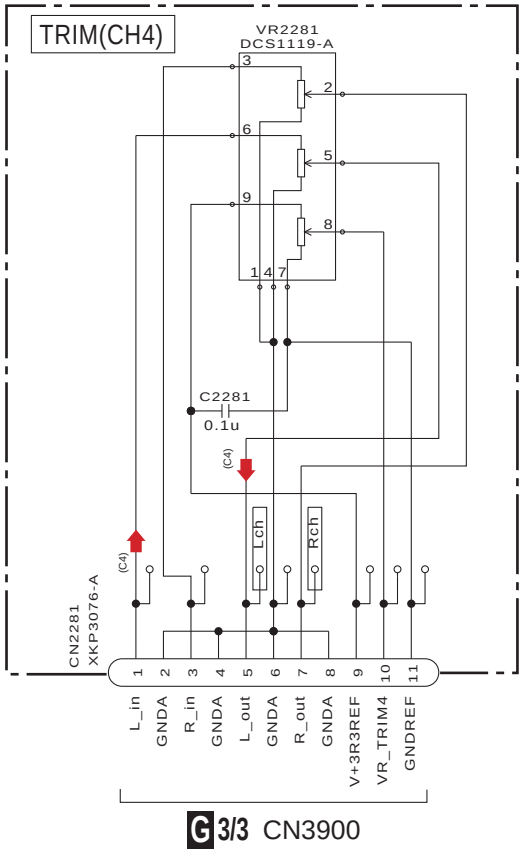
10.6 TRIM3, TRIM4 and AIN2 (1/3) ASSYS

E TRIM3 ASSY (DWX2937)



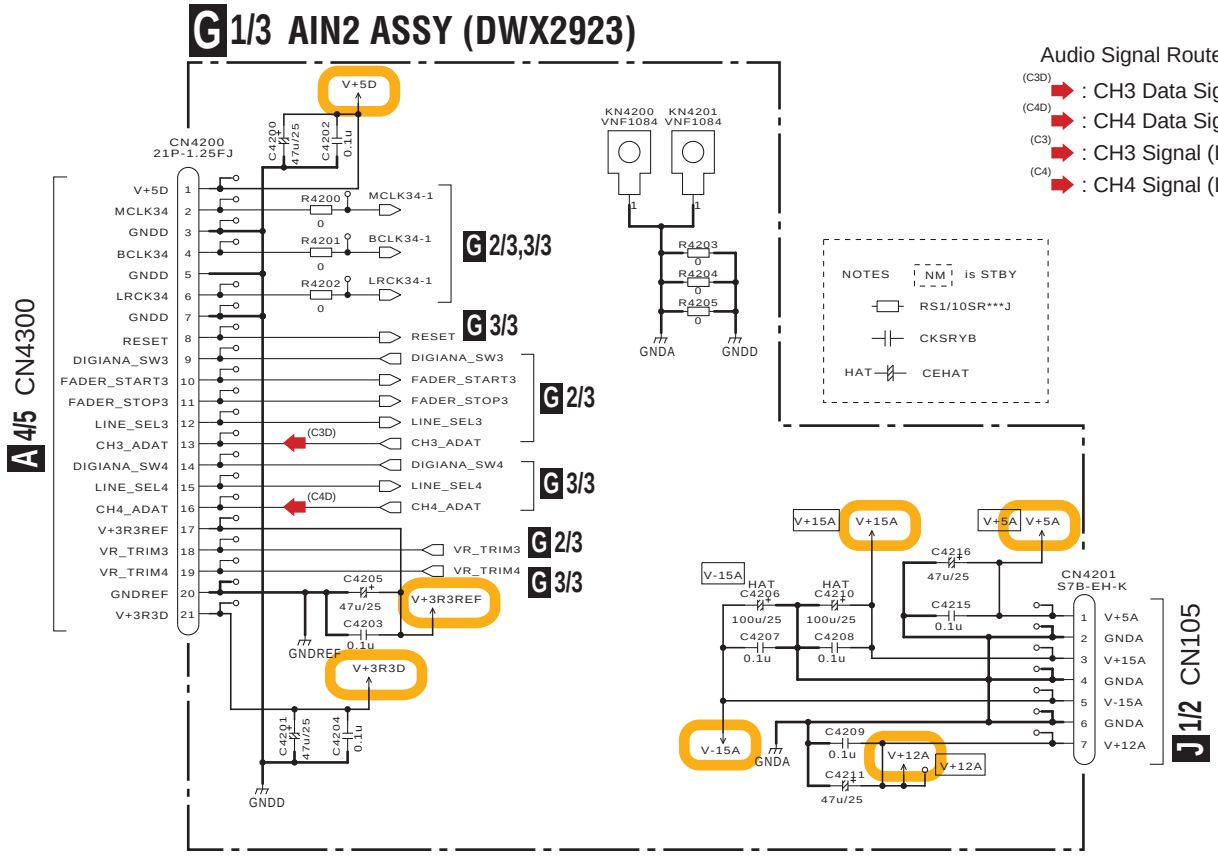
G 2/3 CN3600

F TRIM4 ASSY (DWX2938)



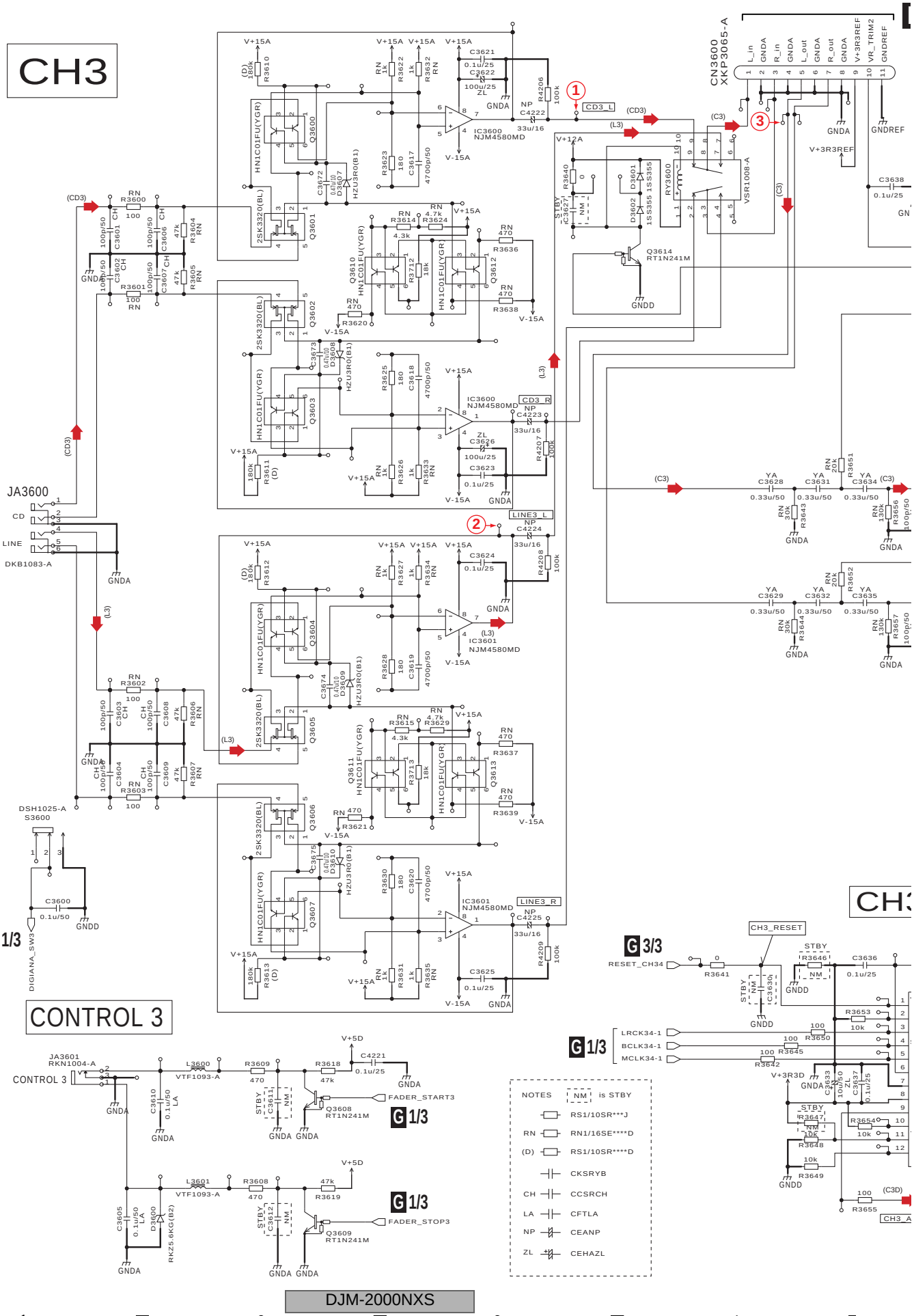
G 3/3 CN3900

G 1/3 AIN2 ASSY (DWX2923)



E F G 1/3

10.7 AIN2 ASSY (2/3)



G 2/3 AIN2 ASSY (DWX2923)

E CN2261

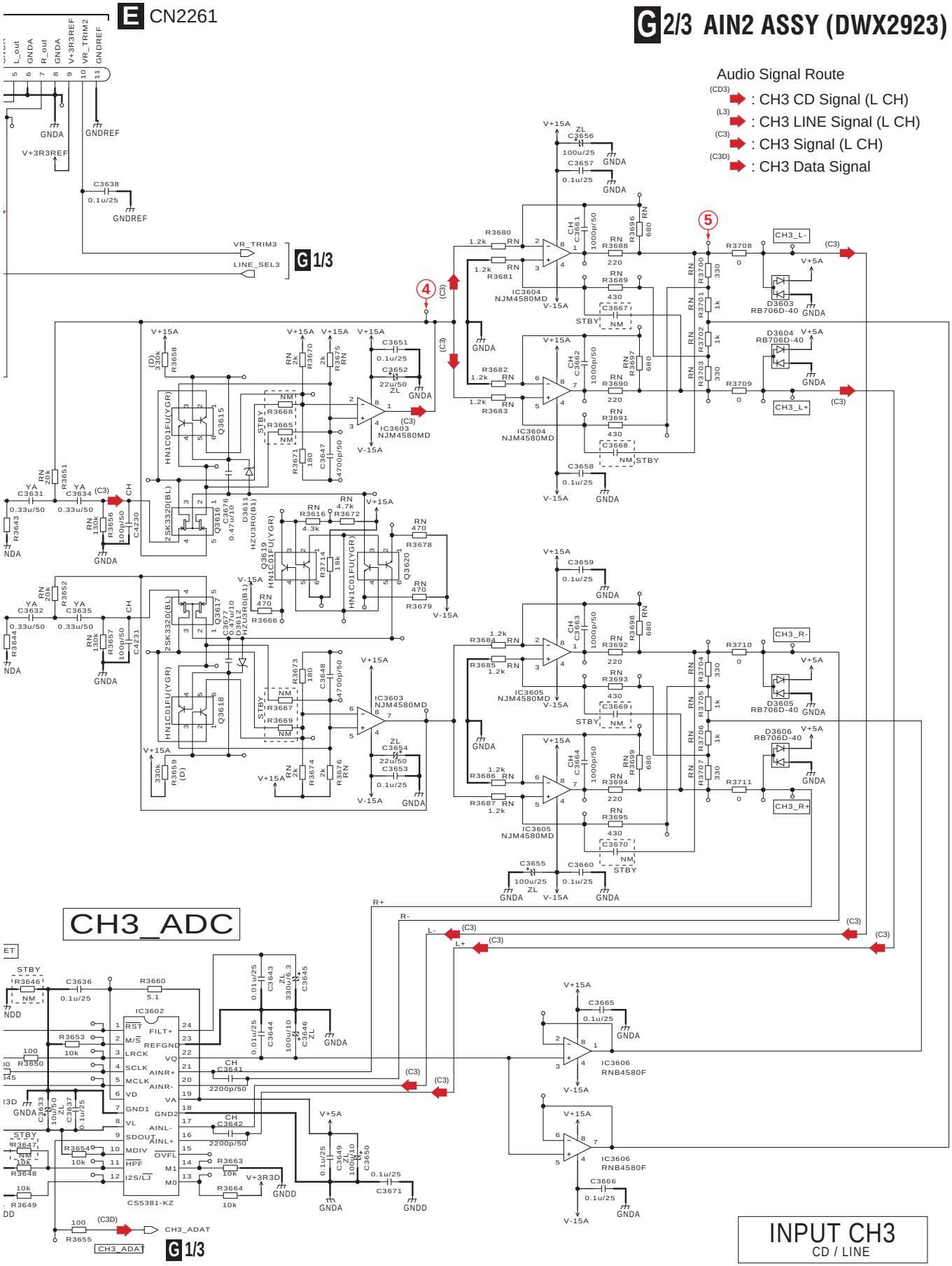
Audio Signal Route

(CD3) : CH3 CD Signal (L CH)

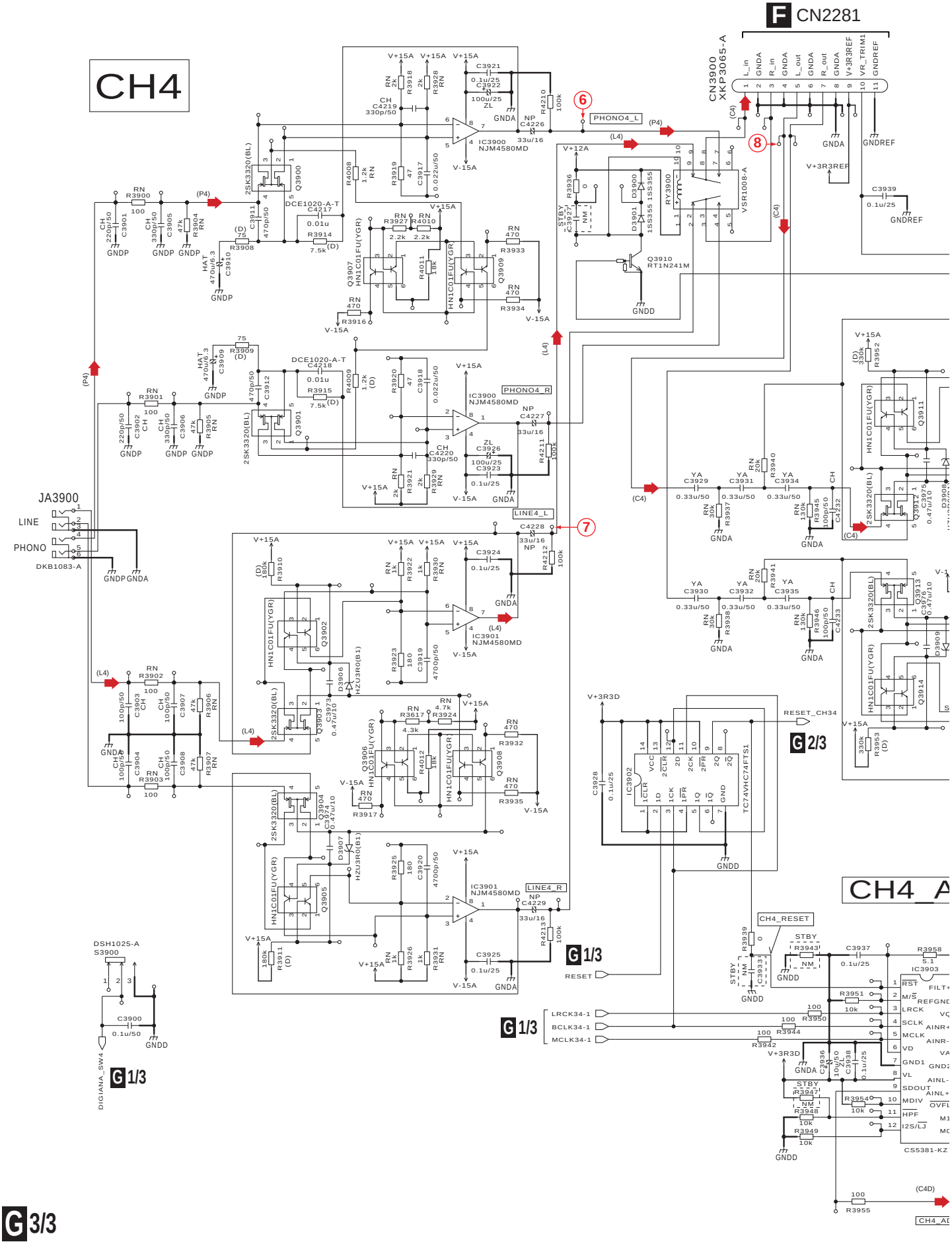
(L3) : CH3 LINE Signal (L CH)

(C3) : CH3 Signal (L CH)

(C3D) : CH3 Data Signal



10.8 AIN2 ASSY (3/3)



G 3/3 AIN2 ASSY (DWX2923)

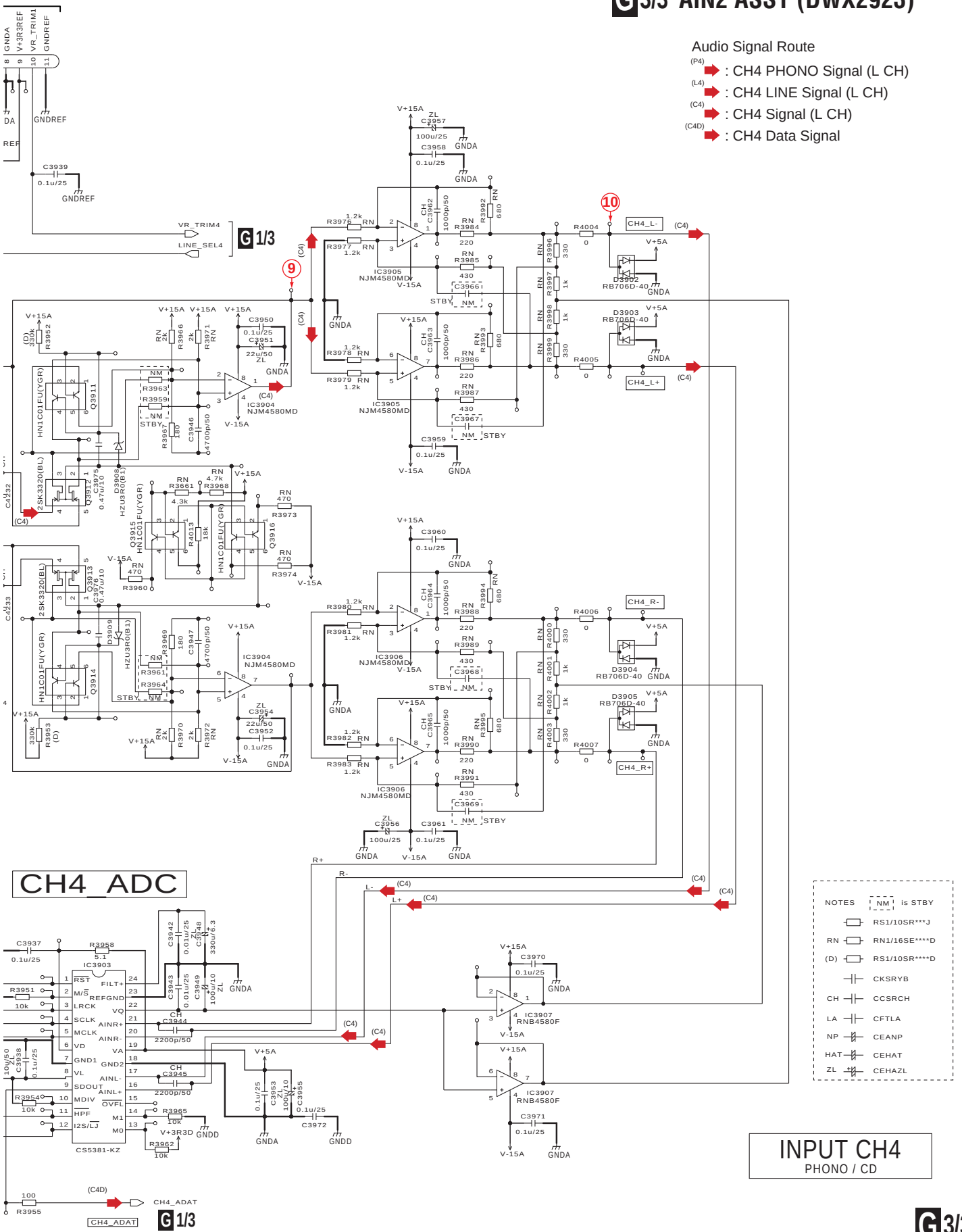
Audio Signal Route

(P4) : CH4 PHONO Signal (L CH)

(L4) : CH4 LINE Signal (L CH)

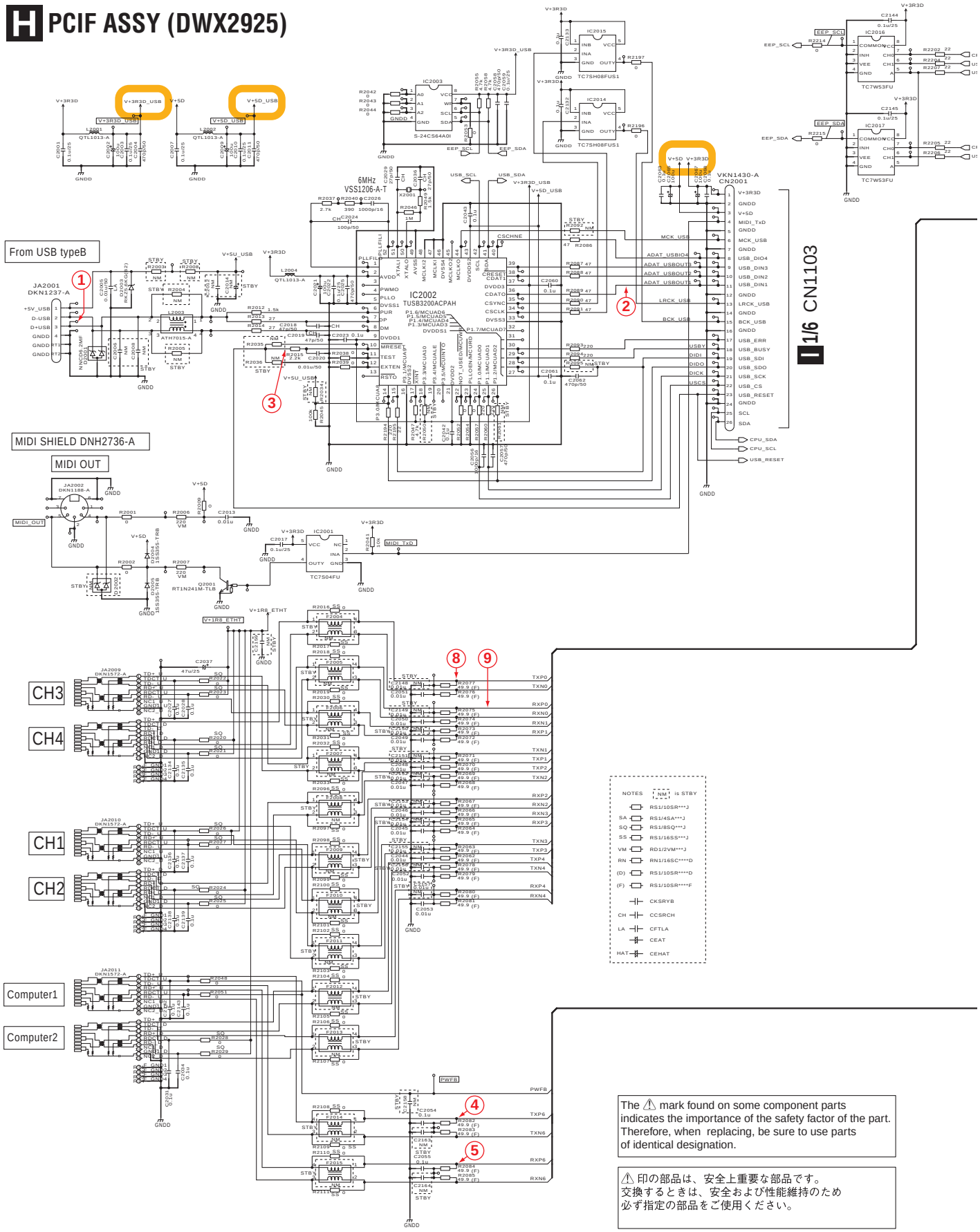
(C4) : CH4 Signal (L CH)

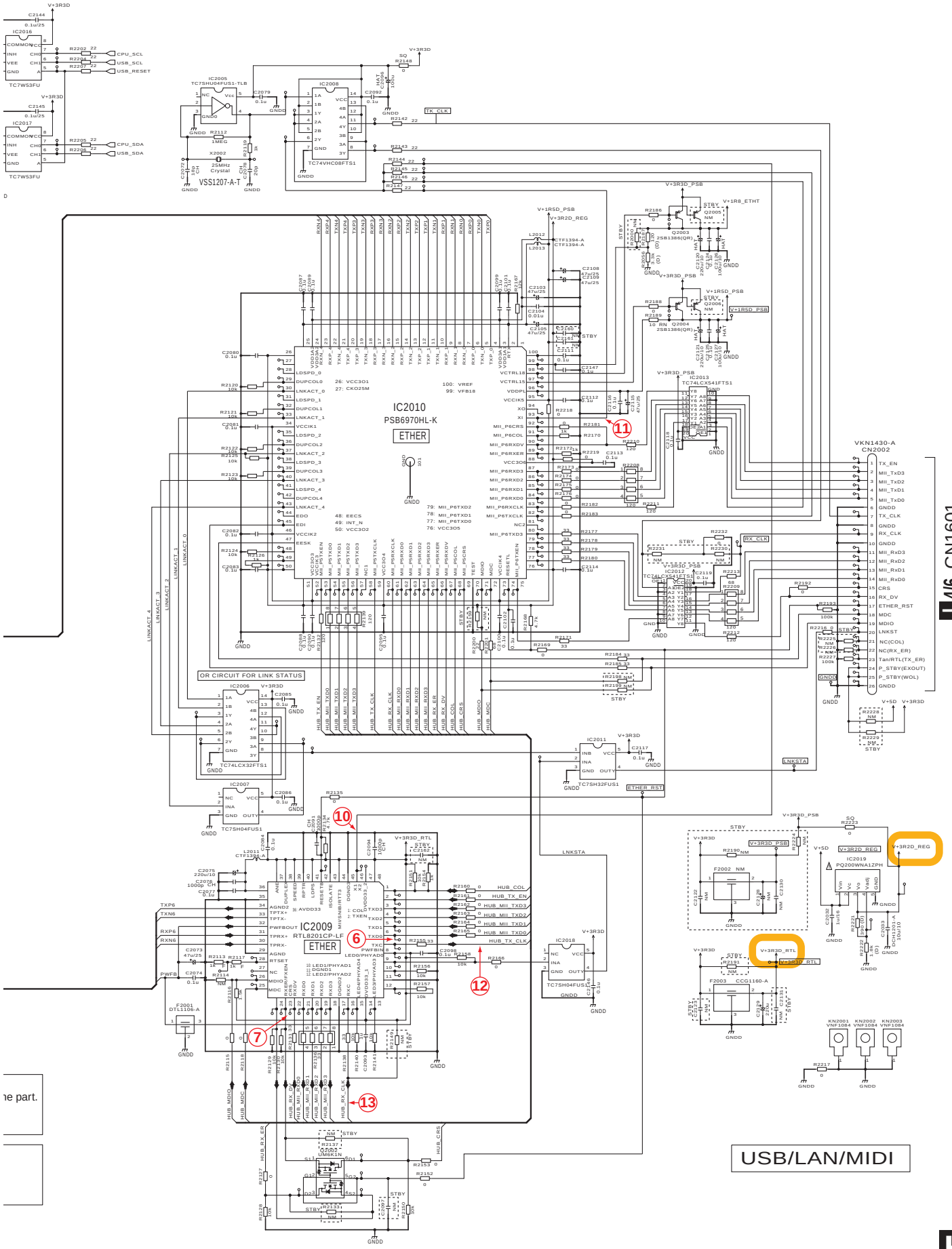
(C4D) : CH4 Data Signal



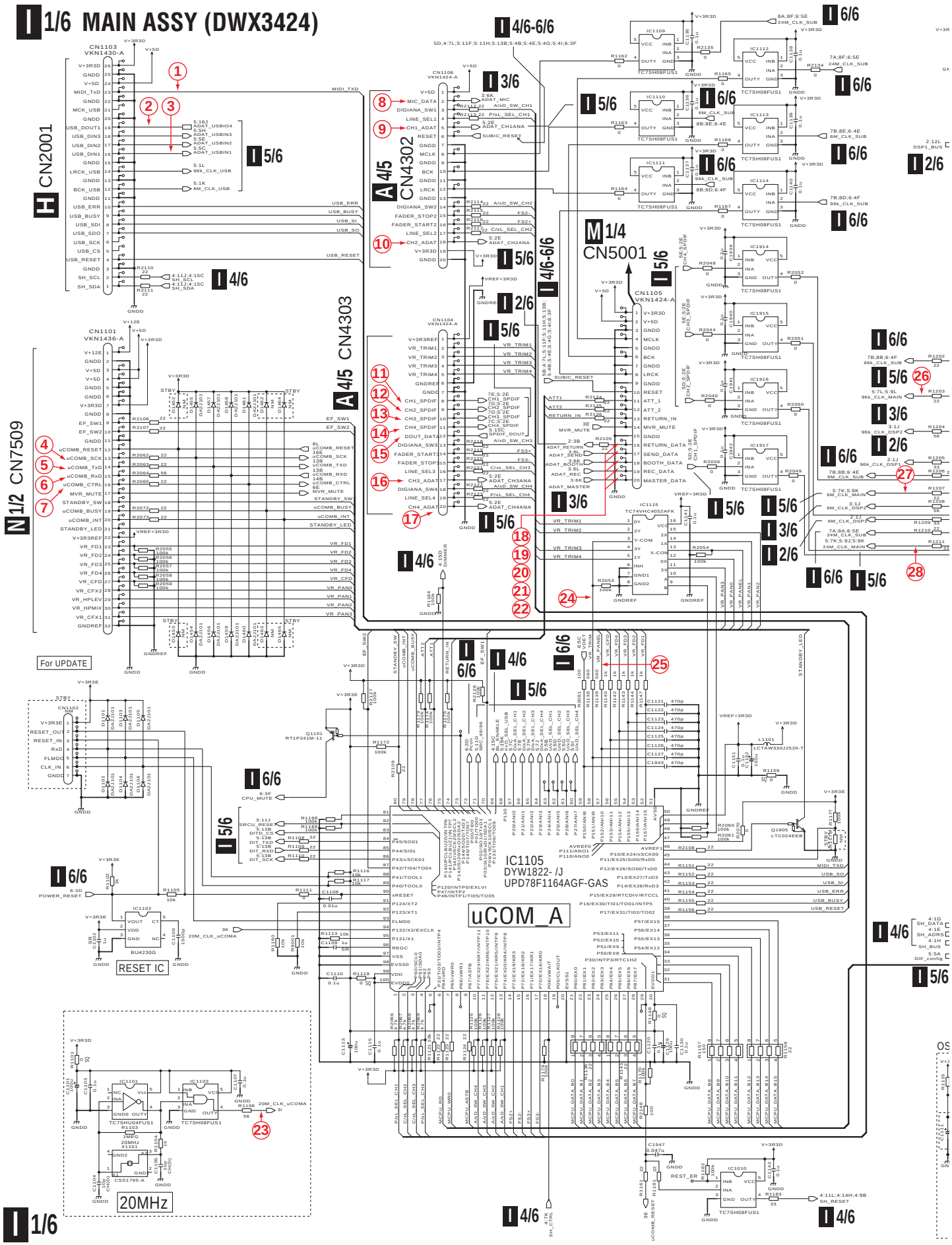
10.9 PCIF ASSY

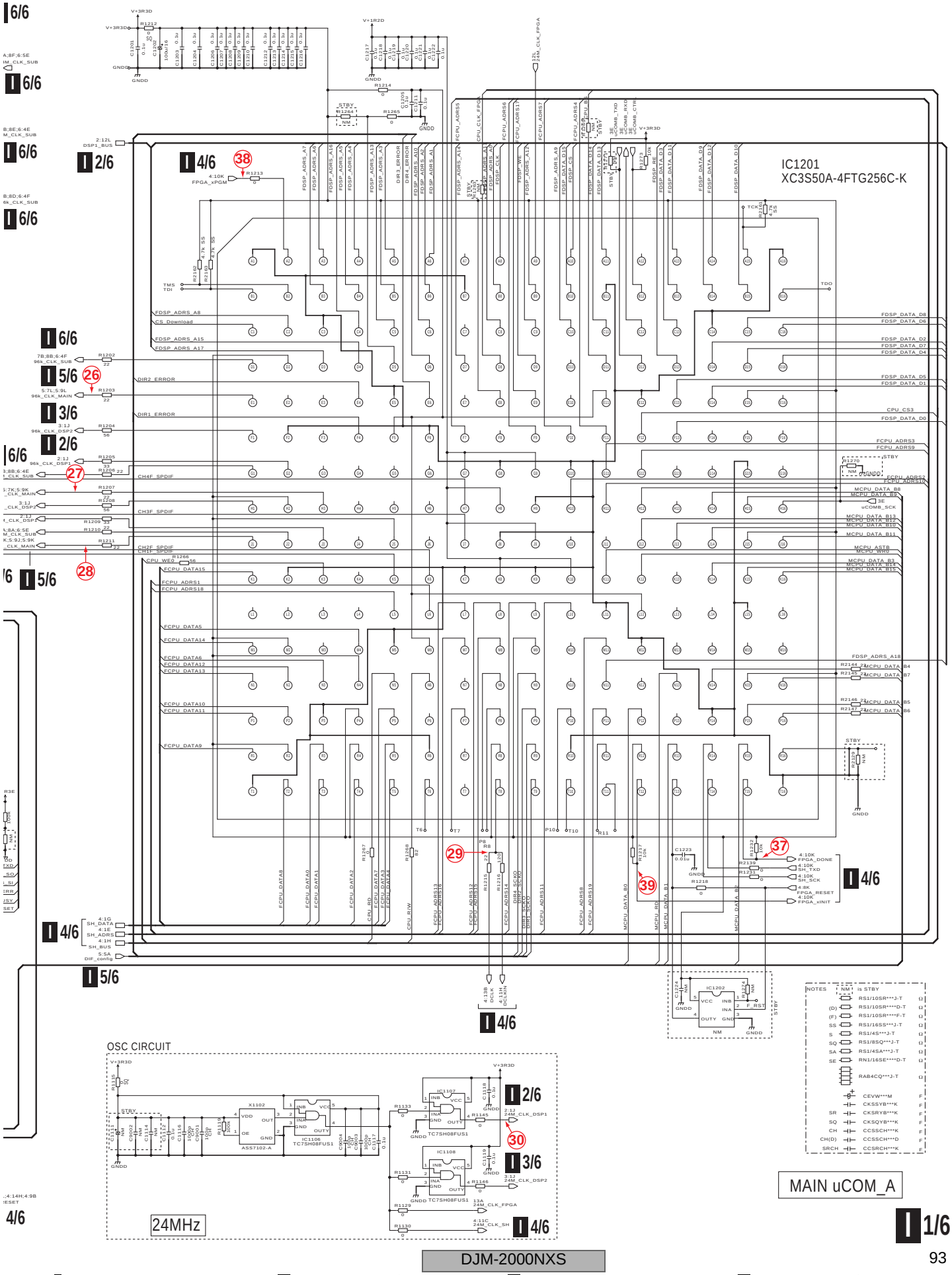
PCIF ASSY (DWX2925)



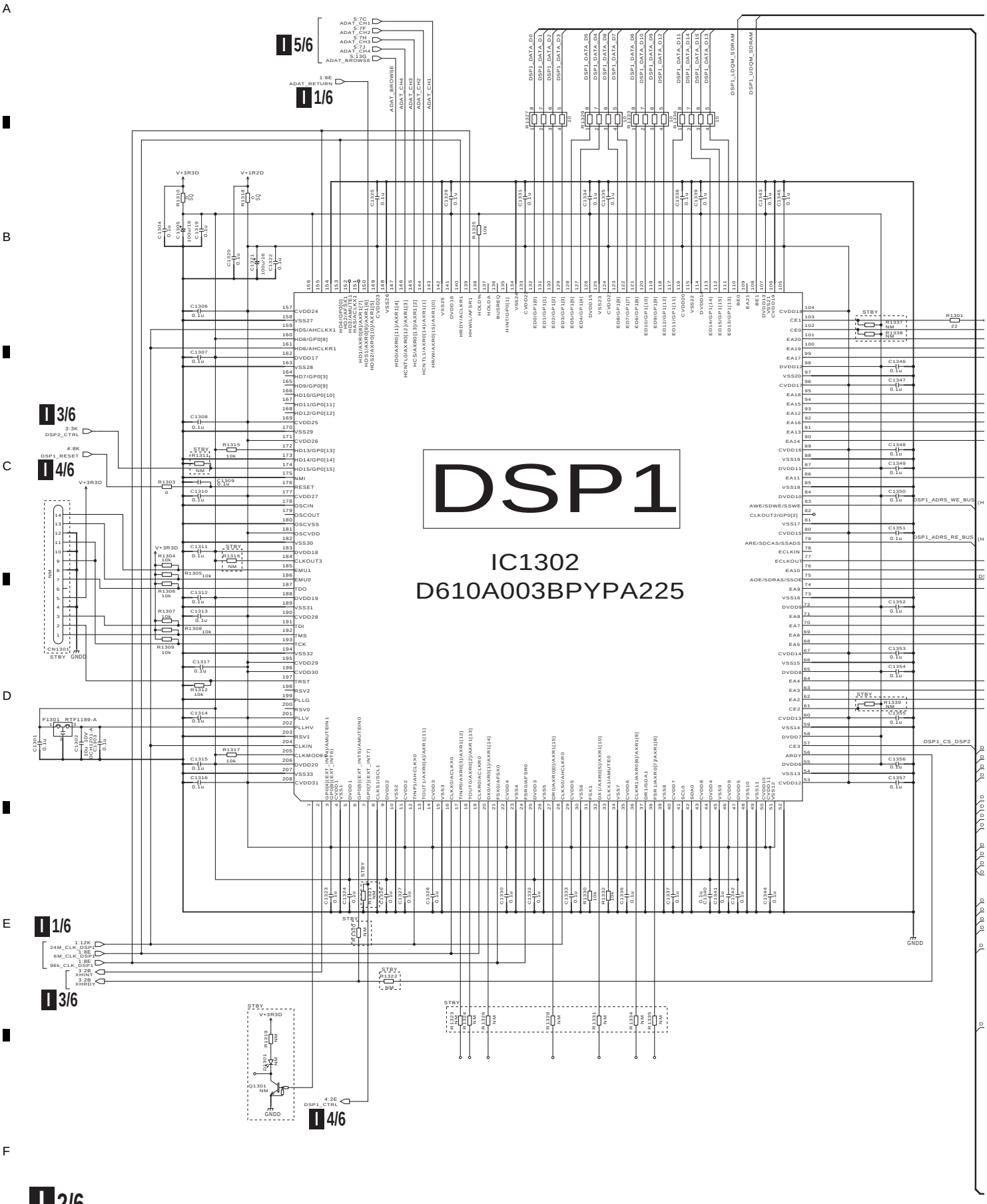

IC2010
PSB6970HL-K
ETHER
IC2009
RTL8201CP-LF
ETHER
IC2019
PO200WNA1ZPH
CN1601
4/6
USB/LAN/MIDI
OR CIRCUIT FOR LINK STATUS
ETHER_RST
LNKSTA
RX_CLK
TK_CLK
STBY
V+3R3D
V+3R3D_PSB
V+3R3D_RTL
V+3R3D_REG
V+1R5D_PSB
V+1R8_ETHT
V+5D
GNDD
GND
CPU_SCL
CPU_SDA
USB_SCL
USB_SDA
USB_RESET
VSS1207-A-T
25MHz Crystal
VKN1430-A
CN2002
TX_EN
MII_TxD3
MII_TxD2
MII_TxD1
MII_TxD0
TX_CLK
RX_CLK
MII_RxD3
MII_RxD2
MII_RxD1
MII_RxD0
CRS
RX_DV
ETHER_RST
MDC
MDIO
LNKST
NC(COL)
NC(RX_ER)
Tan/RTL(TX_ER)
P_STBY(EXOUT)
P_STBY(WOL)
KN2001 VNF1084
KN2002 VNF1084
KN2003 VNF1084
F2001 DTL1106-A
F2002 NM
F2003 CCG1160-A
IC2005 TC7SHU04FUS1-TLB
IC2006 TC74LCX32FTS1
IC2007 TC7SH04FUS1
IC2011 TC7SH32FUS1
IC2012 TC74LCX541FTS1
IC2013 TC74LCX541FTS1
IC2016 TC7W53FU
IC2017 TC7W53FU
IC2018 TC7SH04FUS1
IC2008 TC74VHC08FTS1
Q2003 2SB1386(QR)
Q2004 2SB1386(QR)
Q2005 NM
Q2006 NM
Q2007 UM6K1N
1
2
3
4
5
6
7
10
11
12
13
A
B
C
D
E
F
H
DJM-2000NXS
91

10.10 MAIN ASSY (1/6)

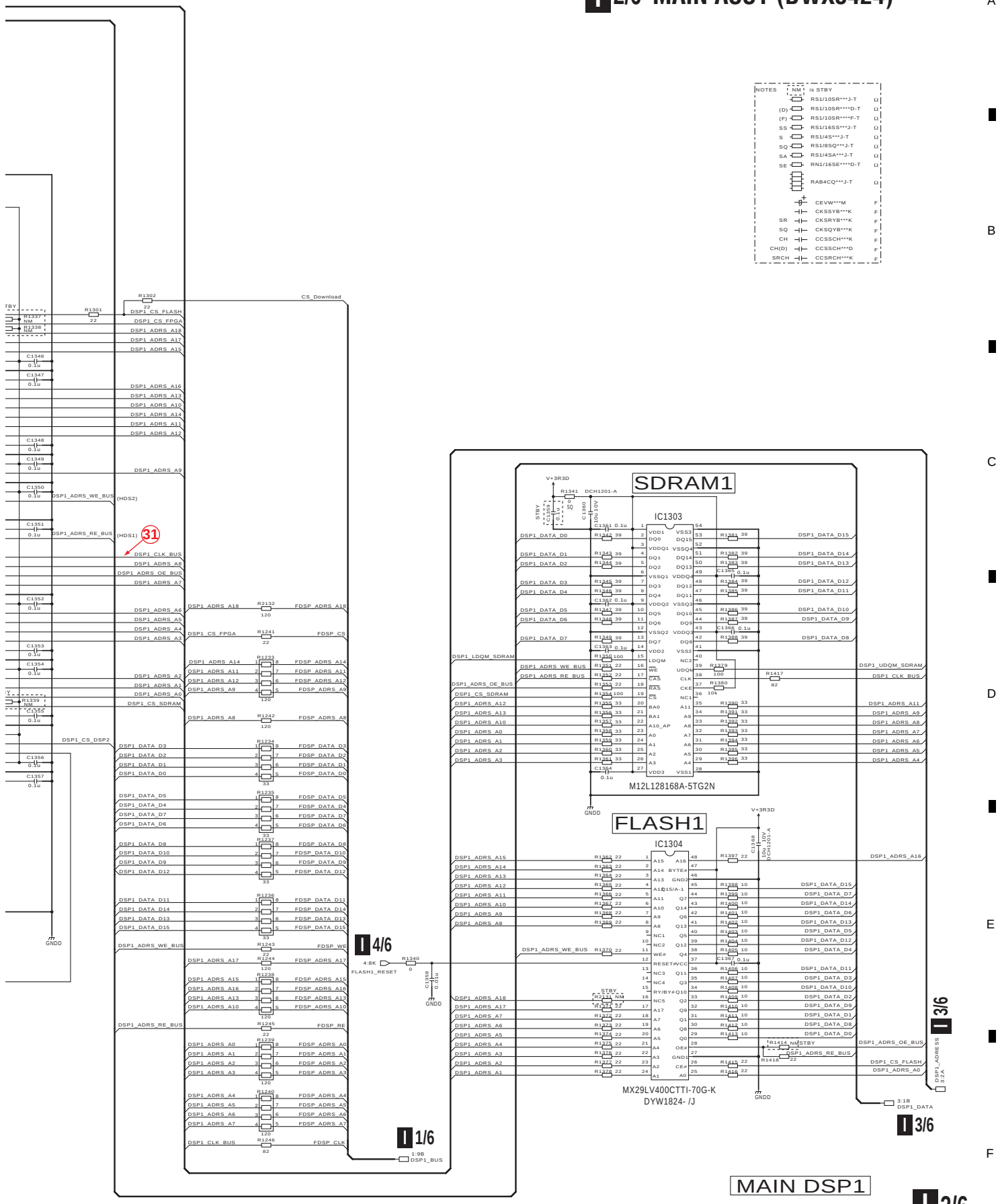



IC1201
XC3S50A-4FTG256C-K
OSC CIRCUIT
24MHz
MAIN uCOM_A
DJM-2000NXS
93

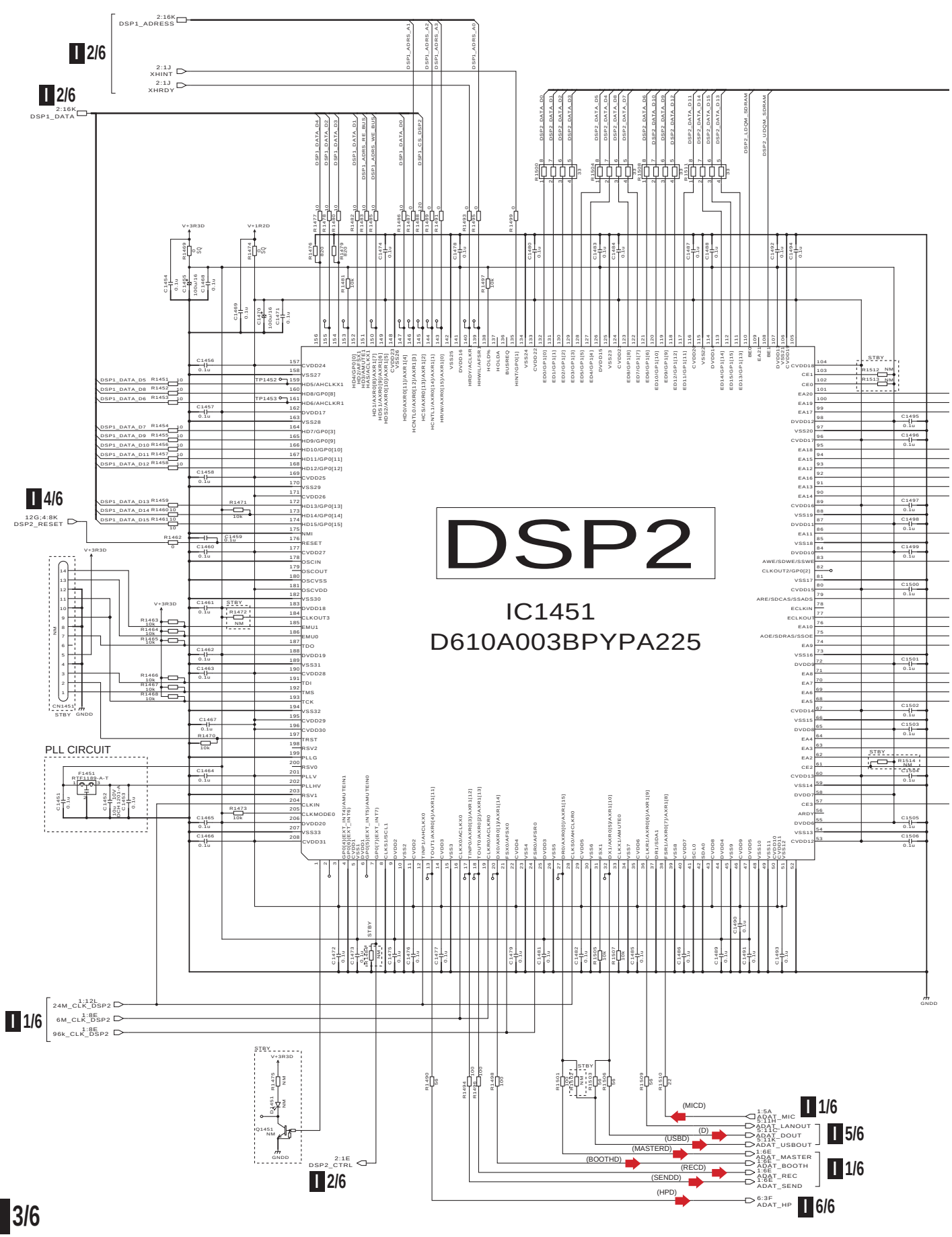
10.11 MAIN ASSY (2/6)

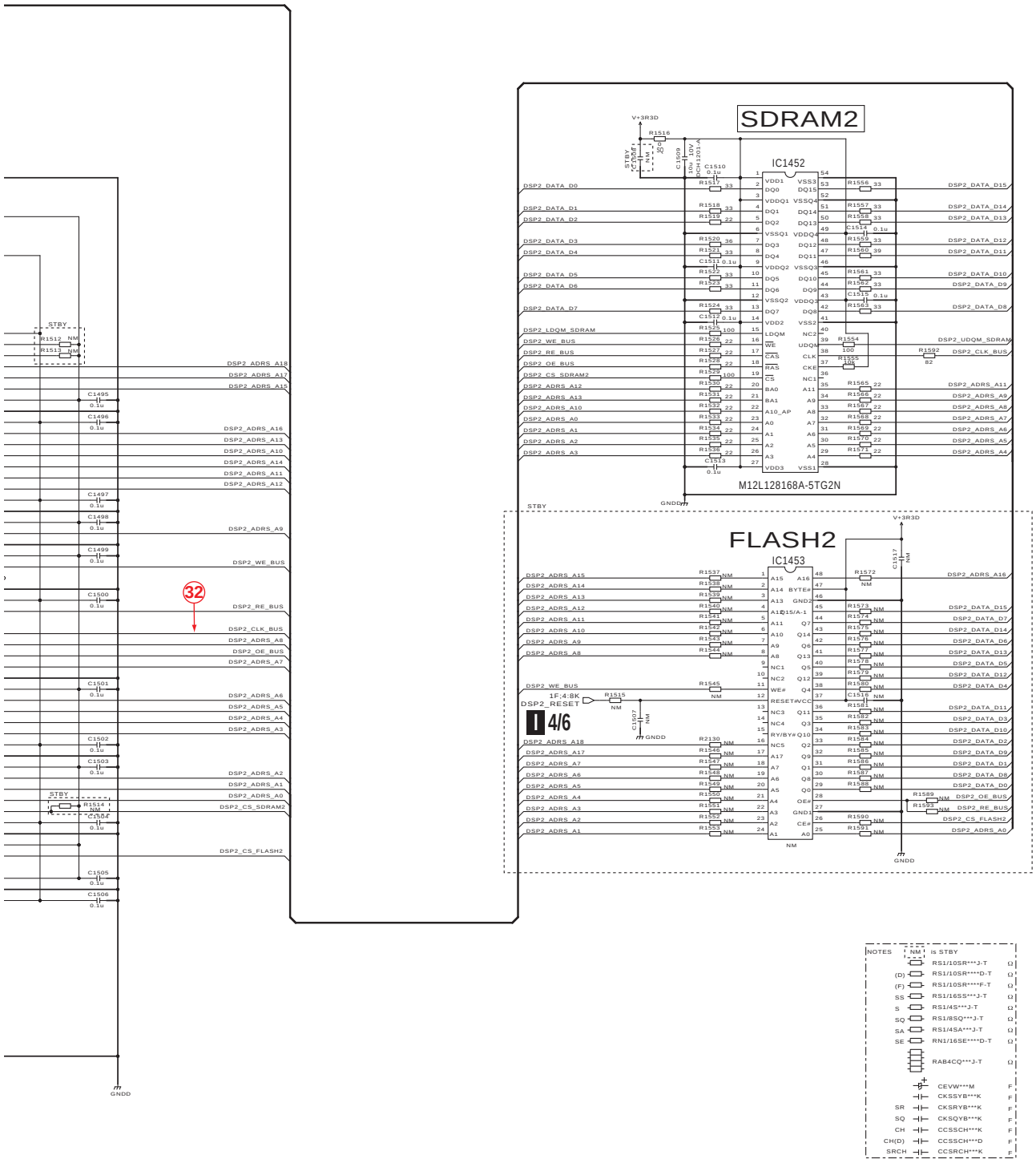


2/6 MAIN ASSY (DWX3424)



10.12 MAIN ASSY (3/6)





Audio Signal Route

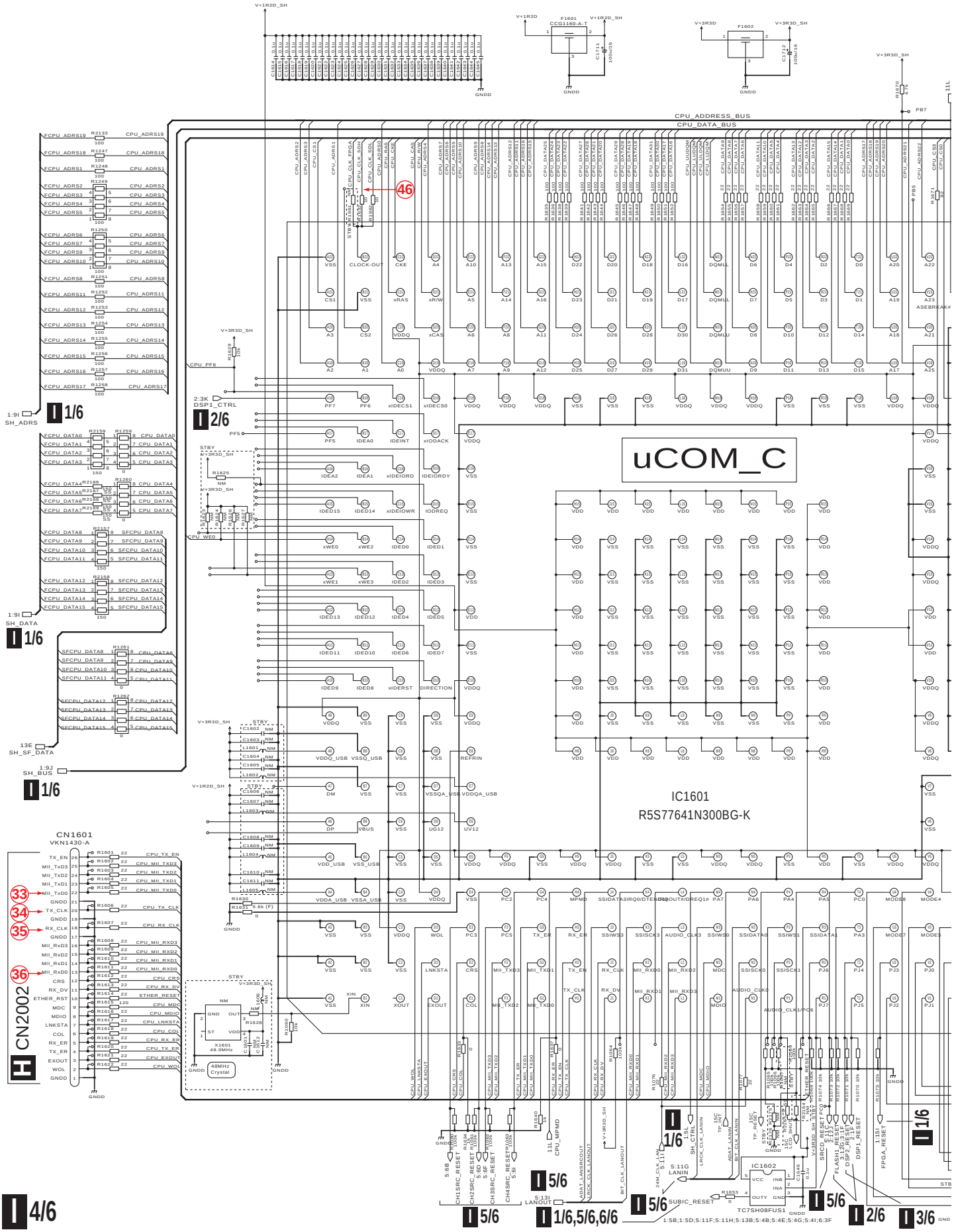
: Audio Data Signal

(D) : Digital Audio Data Signal

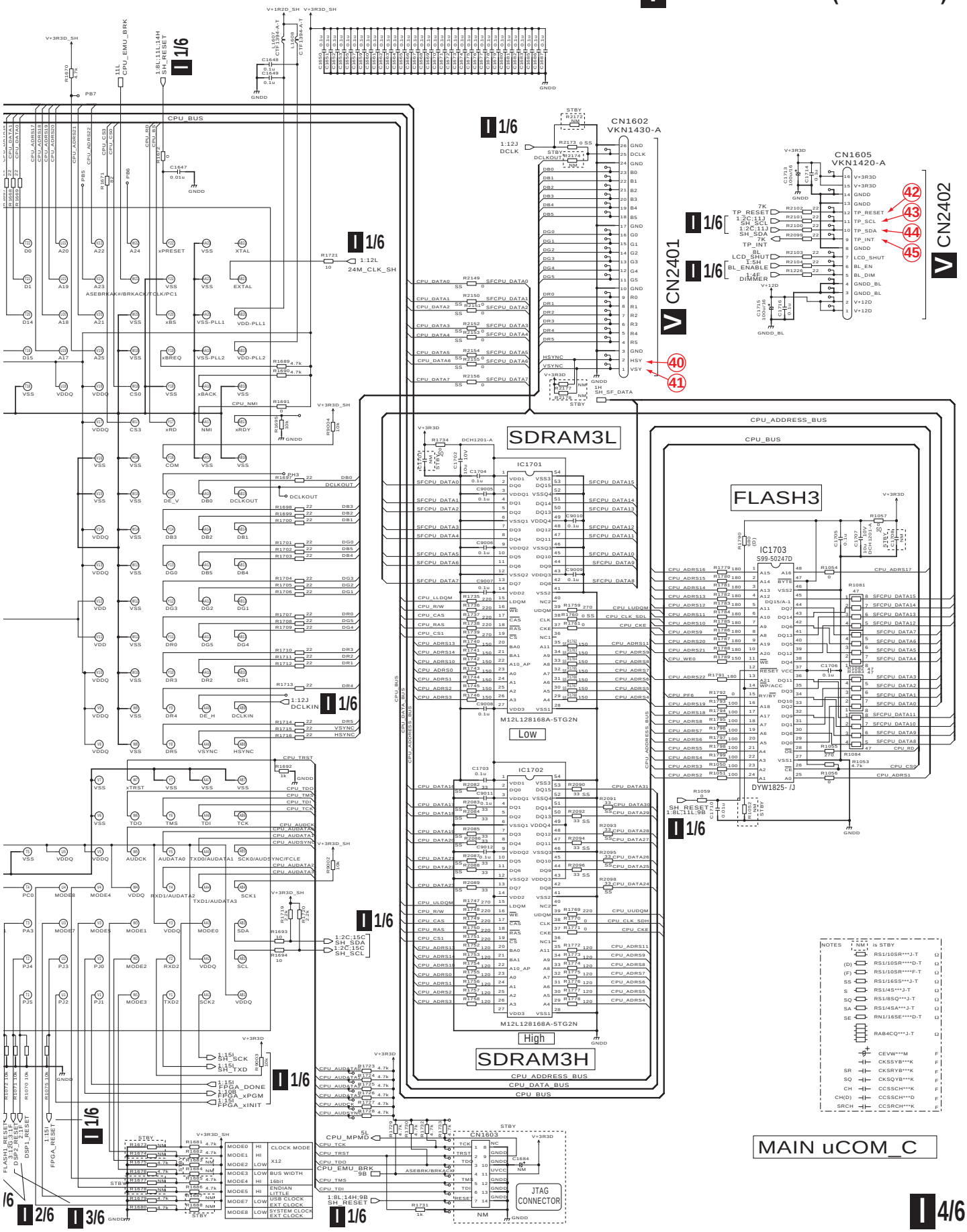
MAIN DSP2

6
5/6
1/6
5

10.13 MAIN ASSY (4/6)

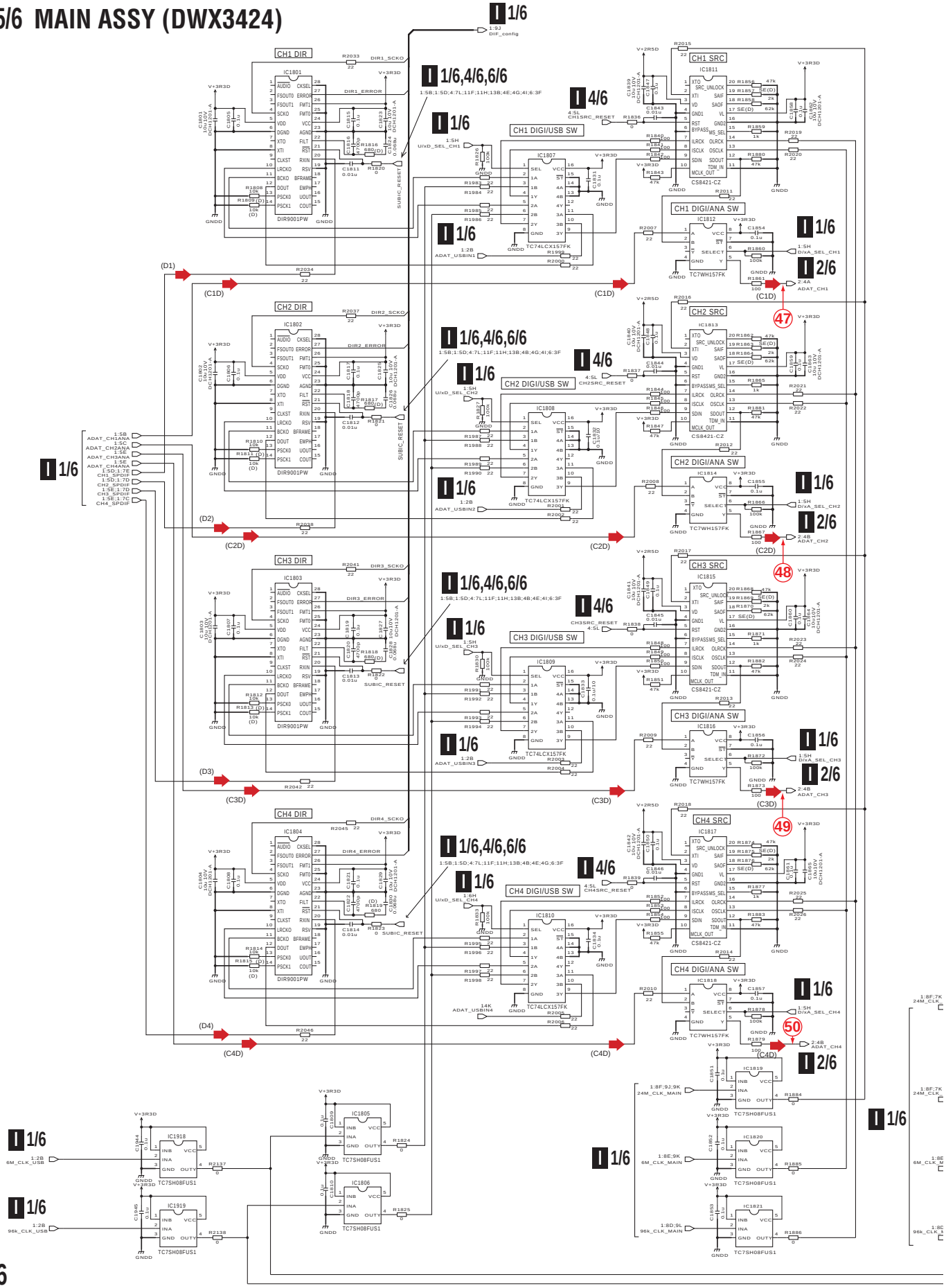


4/6 MAIN ASSY (DWX3424)

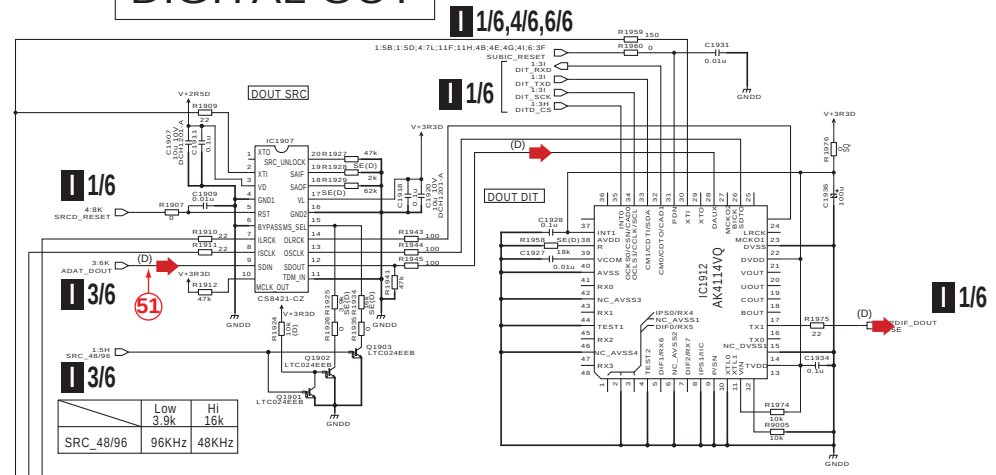


10.14 MAIN ASSY (5/6)

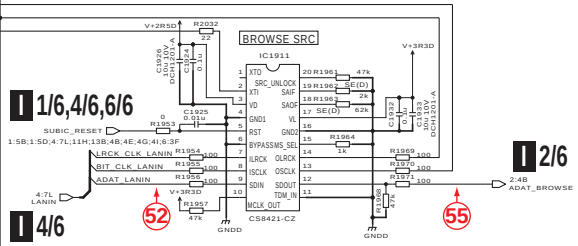
5/6 MAIN ASSY (DWX3424)



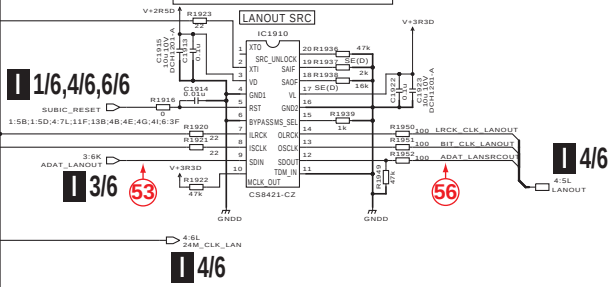
DIGITAL OUT



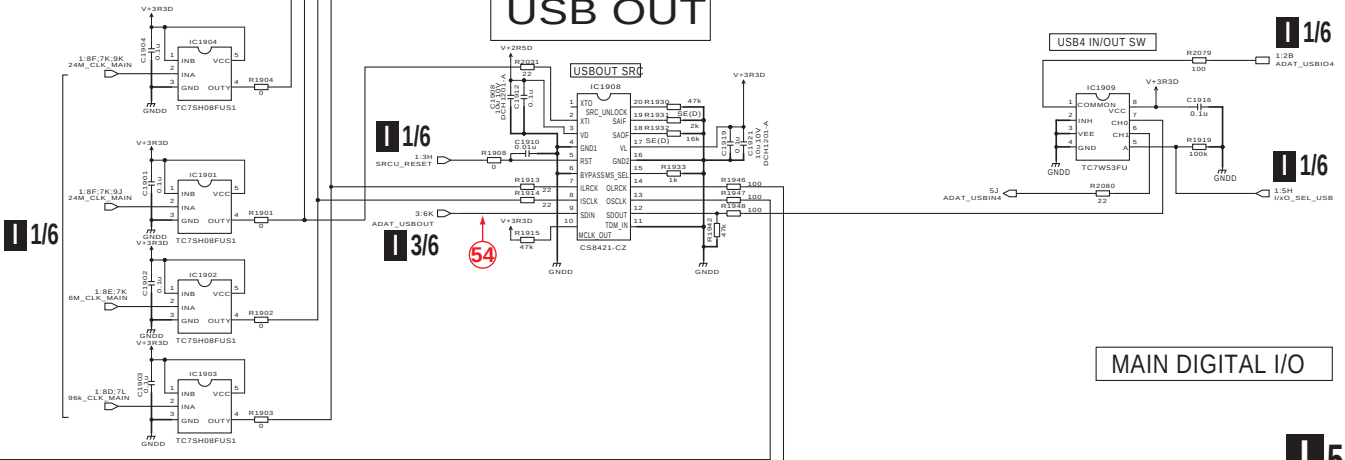
LAN IN



LAN OUT

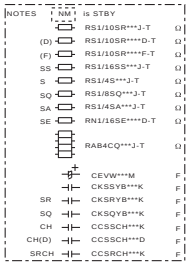


USB OUT



Audio Signal Route

(D1) : Digital 1 Signal
(D2) : Digital 2 Signal
(D3) : Digital 3 Signal
(D4) : Digital 4 Signal
(C1D) : CH1 Data Signal
(C2D) : CH2 Data Signal
(C3D) : CH3 Data Signal
(C4D) : CH4 Data Signal
(D) : Digital Data Signal



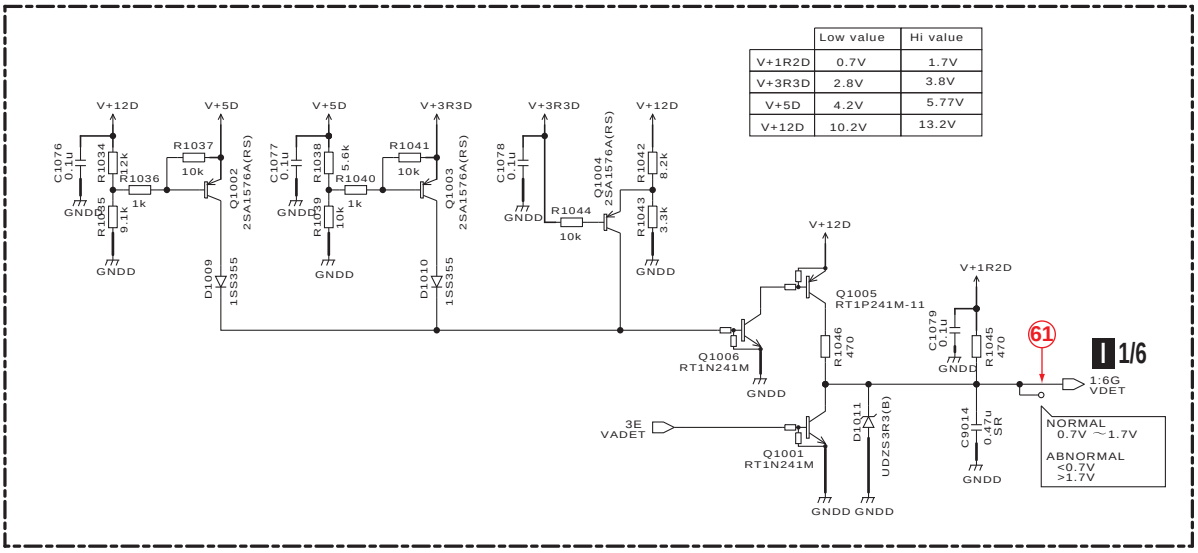
MAIN DIGITAL I/O

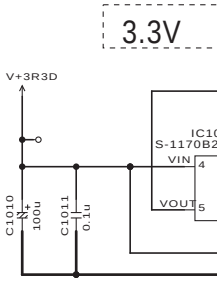
5/6

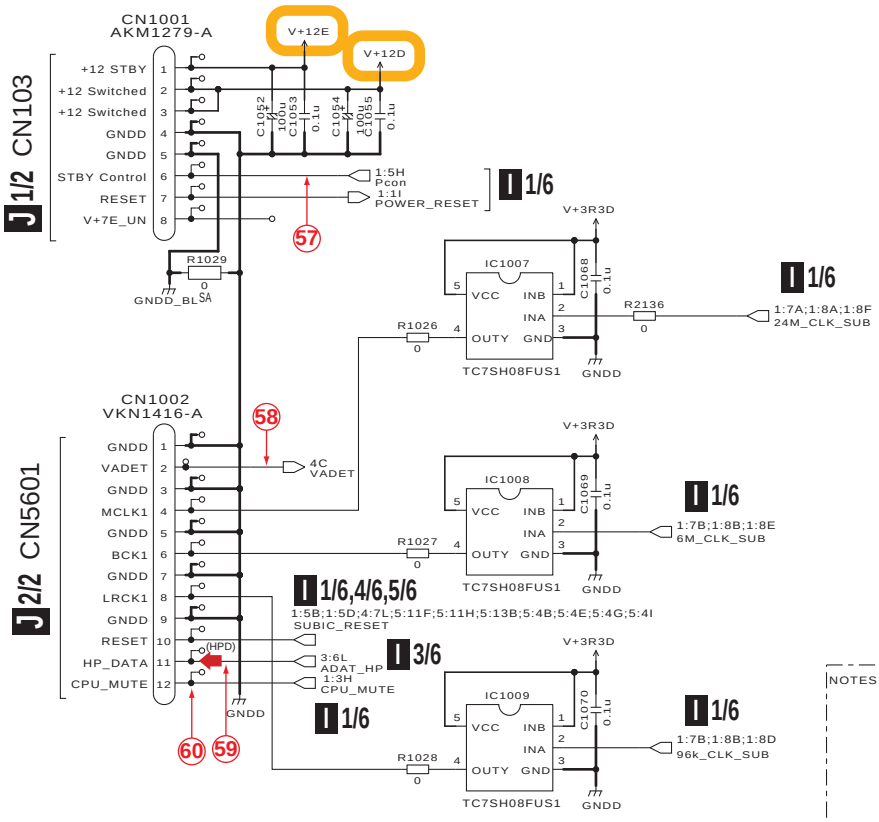
10.15 MAIN ASSY (6/6)

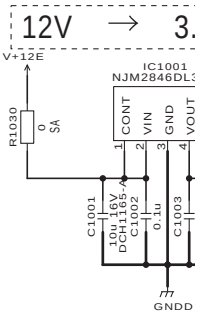
Voltage detection circuit

	Low value	Hi value
V+1R2D	0.7V	1.7V
V+3R3D	2.8V	3.8V
V+5D	4.2V	5.77V
V+12D	10.2V	13.2V

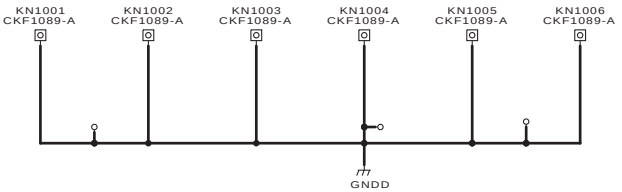








NOTES	NM	is STBY	
		RS1/10SR***J-T	Ω
	(D)	RS1/10SR****D-T	Ω
	(F)	RS1/10SR****F-T	Ω
	SS	RS1/16SS***J-T	Ω
	S	RS1/4S***J-T	Ω
	SQ	RS1/8SQ***J-T	Ω
	SA	RS1/4SA***J-T	Ω
	SE	RN1/16SE****D-T	Ω
		RAB4CQ***J-T	Ω
		CEVW***M	F
		CKSSYB***K	F
	SR	CKSRYB***K	F
	SQ	CKSQYB***K	F
	CH	CCSSCH***K	F
	CH(D)	CCSSCH***D	F
	SRCH	CCSRCH***K	F



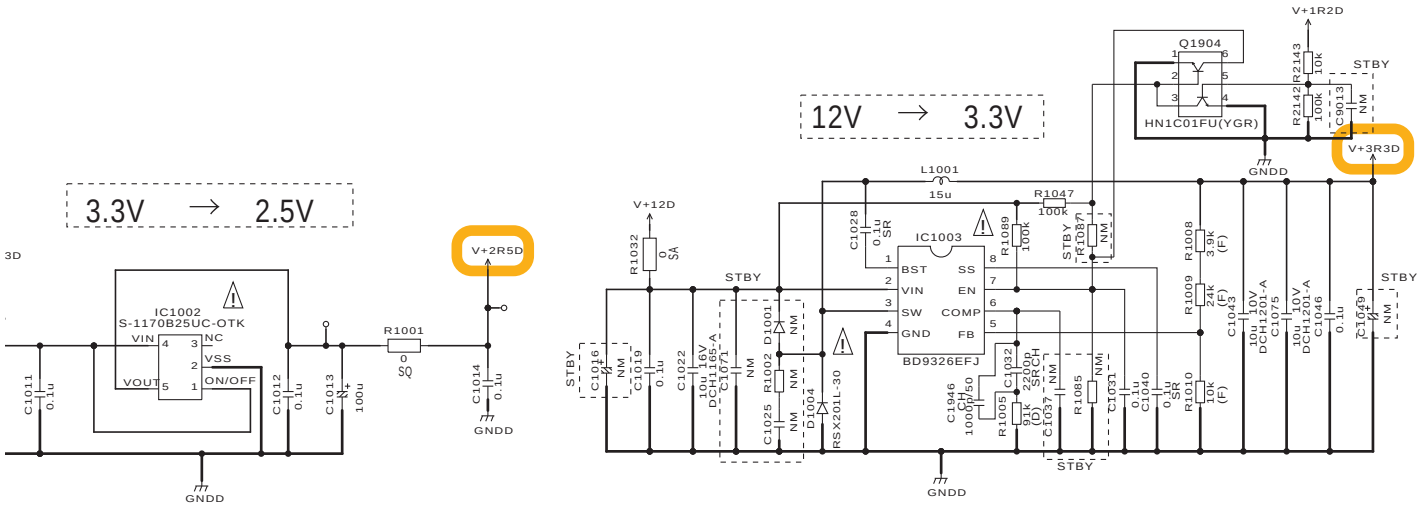
Aud
(HPD)

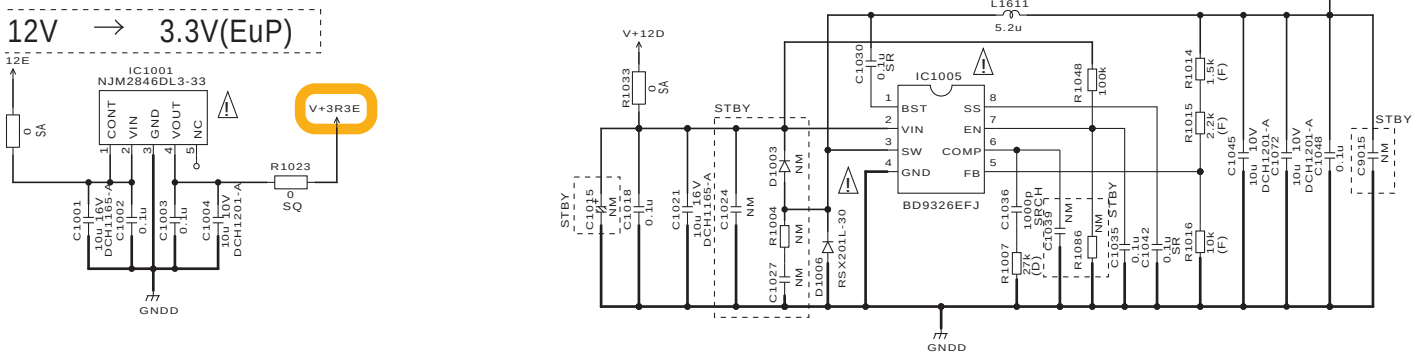
The ⚠ m
indicates
Therefore
of identic

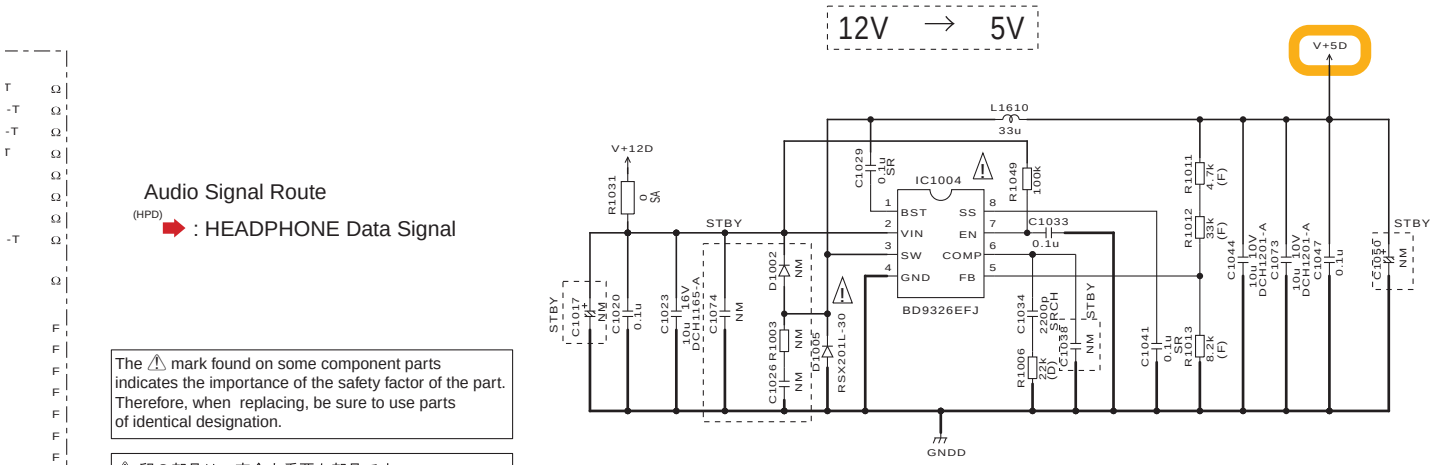
⚠ 印の部
交換する
必ず指定

1/6

6/6 MAIN ASSY (DWX3424)







Audio Signal Route

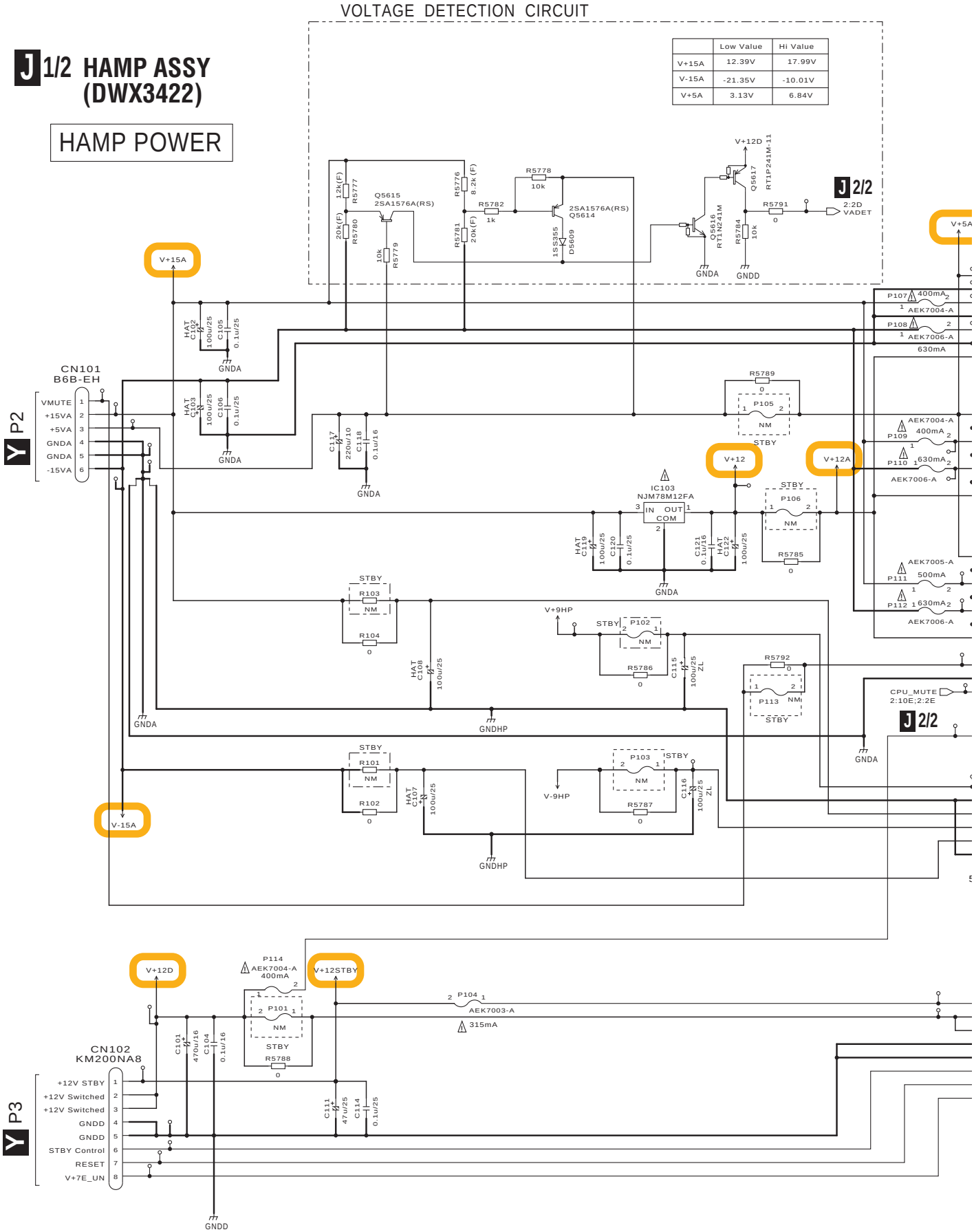
(HPD) : HEADPHONE Data Signal

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.

⚠ 印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため
必ず指定の部品をご使用ください。

MAIN POWER

10.16 HAMP (1/2) and HREG ASSYS



NOTES NM is STBY

RS1/10SR***J

CKSRYB

CEAT

HAT CEHAT

ZL CEHAZL

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.

⚠ 印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため
必ず指定の部品をご使用ください。

CAUTION

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE No.
491.315PAR
MFD. BY LITTELFUSE INC. FOR P104
491.400PAR
MFD. BY LITTELFUSE INC. FOR P107,P109,P114
491.500PAR
MFD. BY LITTELFUSE INC. FOR P111
491.630PAR
MFD. BY LITTELFUSE INC. FOR P108,P110,P112

2/2
2D
ADET

V+5A

CN104
B7B-EH

P107 ⚠ 400mA
AEK7004-A
P108 ⚠
AEK7006-A
630mA

1 V+5A
2 GNDA
3 V+15A
4 GNDA
5 V-15A
6 GNDA
7 V+12A

A 4/5 CN4301

CN105
B7B-EH-K

AEK7004-A
P109 ⚠ 400mA
P110 ⚠ 630mA
AEK7006-A

1 V+5A
2 GNDA
3 V+15A
4 GNDA
5 V-15A
6 GNDA
7 V+12A

G 1/3 CN4201

CN106
B12B-EH

AEK7005-A
P111 ⚠ 500mA
P112 ⚠ 630mA
AEK7006-A

1 V+5A
2 GNDA
3 V+15A
4 GNDA
5 V-15A
6 GNDA
7 V+12A
8 GNDA
9 VMUTE
10 GNDA
11 CPU_MUTE
12 V+12D

M 1/4 CN5002

CPU_MUTE
2:10E;2:2E

J 2/2

GNDA

6 +9VA
5 GNDHP
4 +15VA
3 -9VA
2 -15VA
1 GNDHP

51048-0600
JH101

CN103
KM200NA8

1 +12V STBY
2 +12V Switched
3 +12V Switched
4 GNDD
5 GNDD
6 STBY Control
7 RESET
8 V+7E_UN

I 6/6 CN1001

KN103 AKF7002-A
KN104 AKF7002-A

GNDA

K HREG ASSY (DWX3423)

IC104
NJM79M09FA
C5804 0.1u/25
C5802 0.1u/25
D5802 RB501VM-40
IN OUT COM
GNDHP

IC105
NJM78M09FA
C5803 0.1u/25
C5801 0.1u/25
D5801 RB501VM-40
IN OUT COM
GNDHP

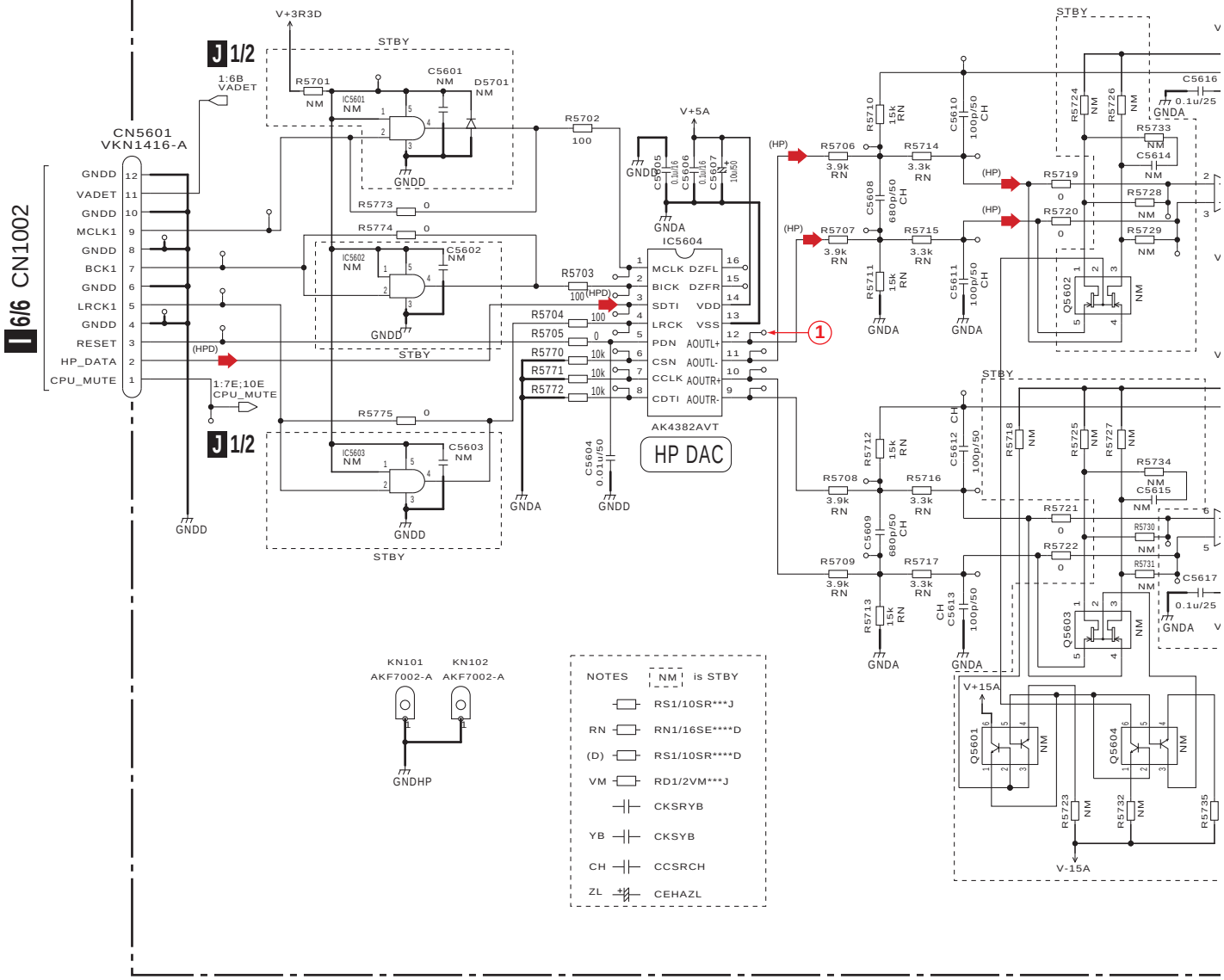
CN110
52151-0610

1 GNDHP
2 -15VA
3 -9VA
4 +15VA
5 GNDHP
6 +9VA

CKSRYB

J 1/2 K

J 2/2 HAMP ASSY (DWX3422)



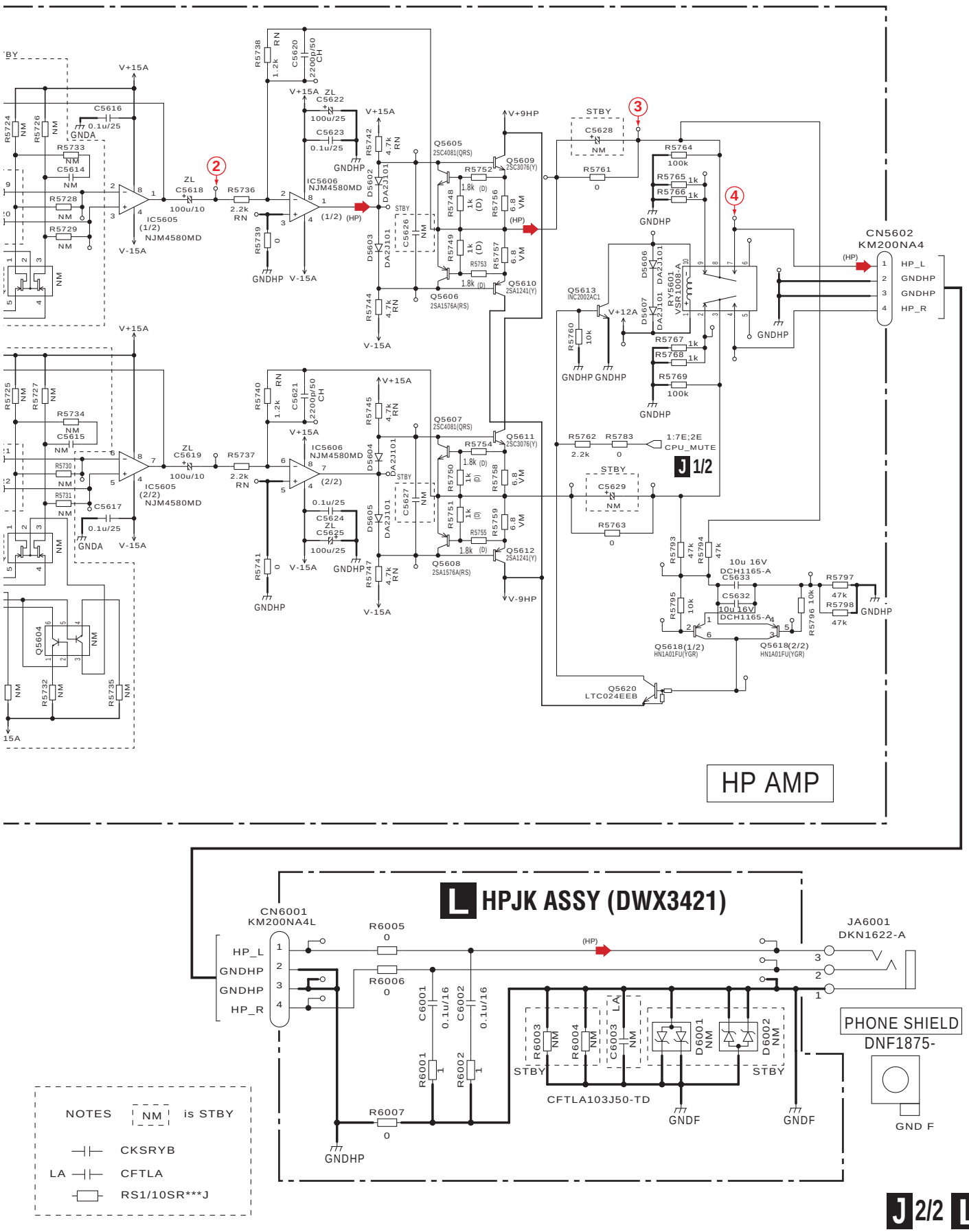
Audio Signal Route

(HP) ➡ : HEADPHONE Signal (L CH)

(HPD) ➡ : HEADPHONE Data Signal

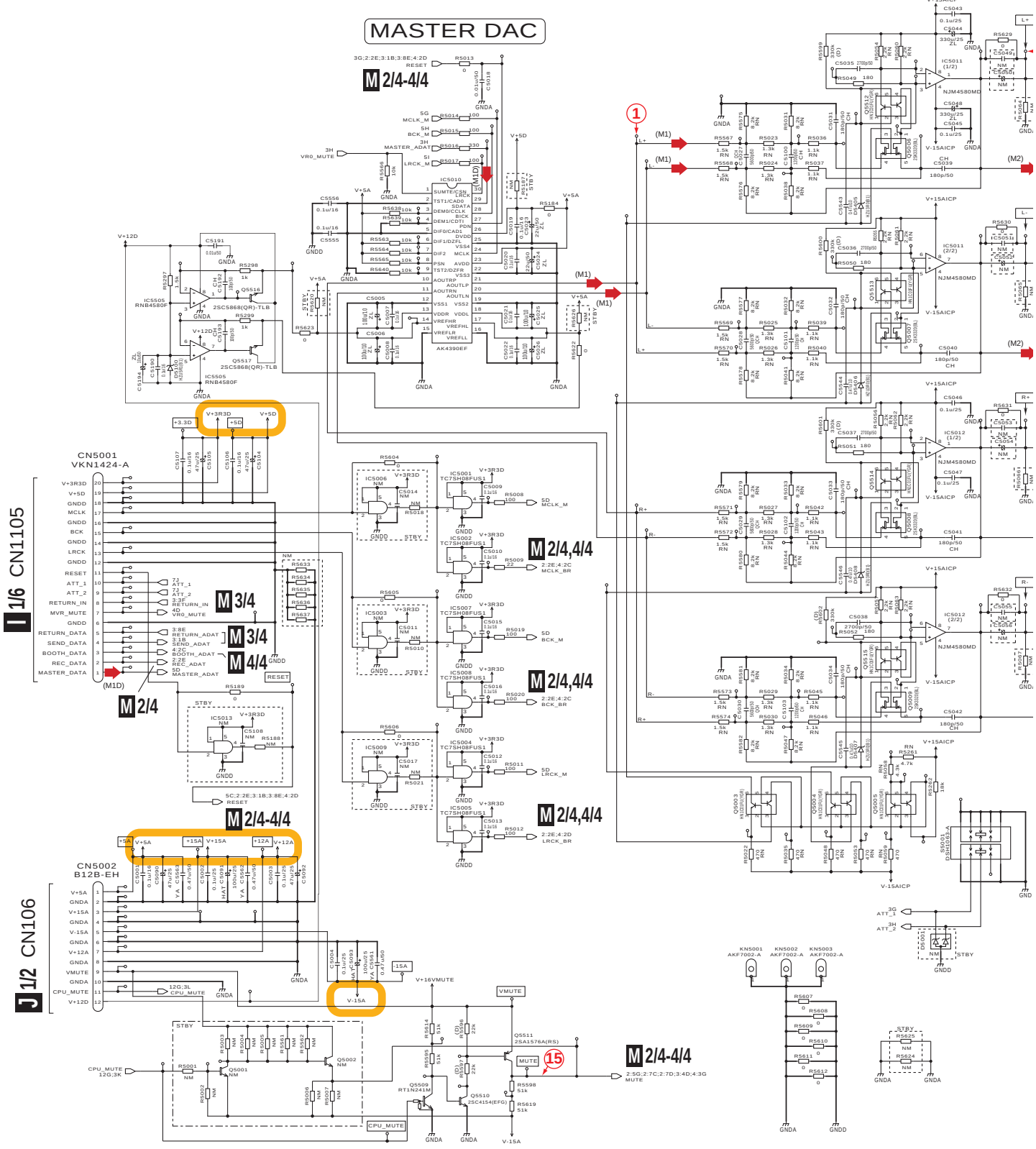
NOTES

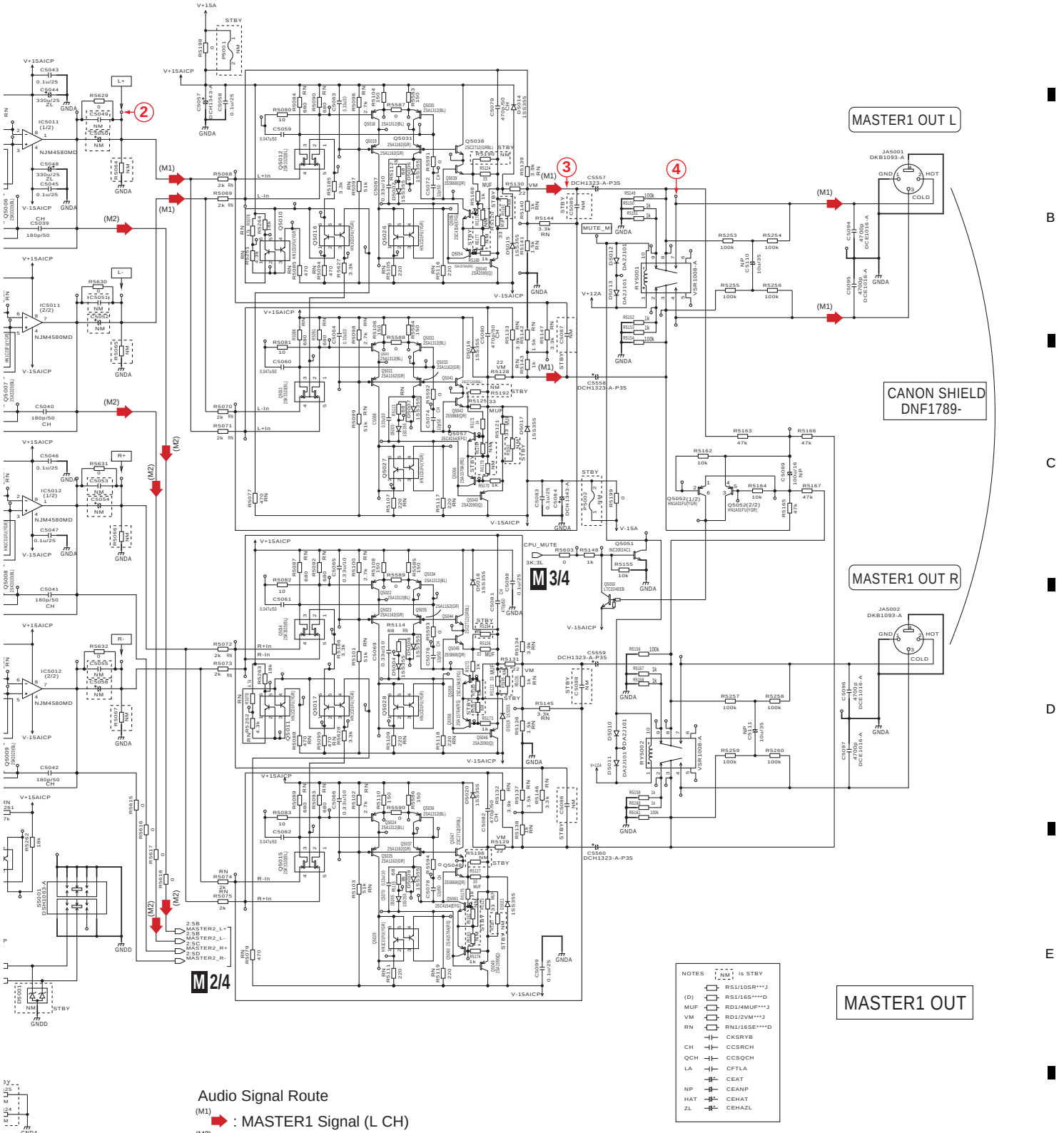
LA


HP AMP
L HPJK ASSY (DWX3421)
CN6001
KM200NA4L
HP_L
GNDHP
GNDHP
HP_R
JA6001
DKN1622-A
PHONE SHIELD
DNF1875-
GND F
CN5602
KM200NA4
HP_L
GNDHP
GNDHP
HP_R
IC5605 (1/2) NJM4580MD
IC5605 (2/2) NJM4580MD
IC5606 NJM4580MD
Q5605 2SC4081(QRS)
Q5606 2SA1576A(RS)
Q5607 2SC4081(QRS)
Q5608 2SA1576A(RS)
Q5609 2SC3076(Y)
Q5610 2SA1241(Y)
Q5611 2SC3076(Y)
Q5612 2SA1241(Y)
Q5613 INC2002AC1
Q5618(1/2) HN1A01FU(YGR)
Q5618(2/2) HN1A01FU(YGR)
Q5620 LTC024EEB
CFTLA103J50-TD
1:7E;2E
CPU_MUTE
J 1/2
J 2/2 L
V+15A
V-15A
V+9HP
V-9HP
V+12A
GNDA
GNDHP
GNDF
STBY
NOTES
NM is STBY
CKSRYB
CFTLA
RS1/10SR***J

10.18 AOUT ASSY (1/4)

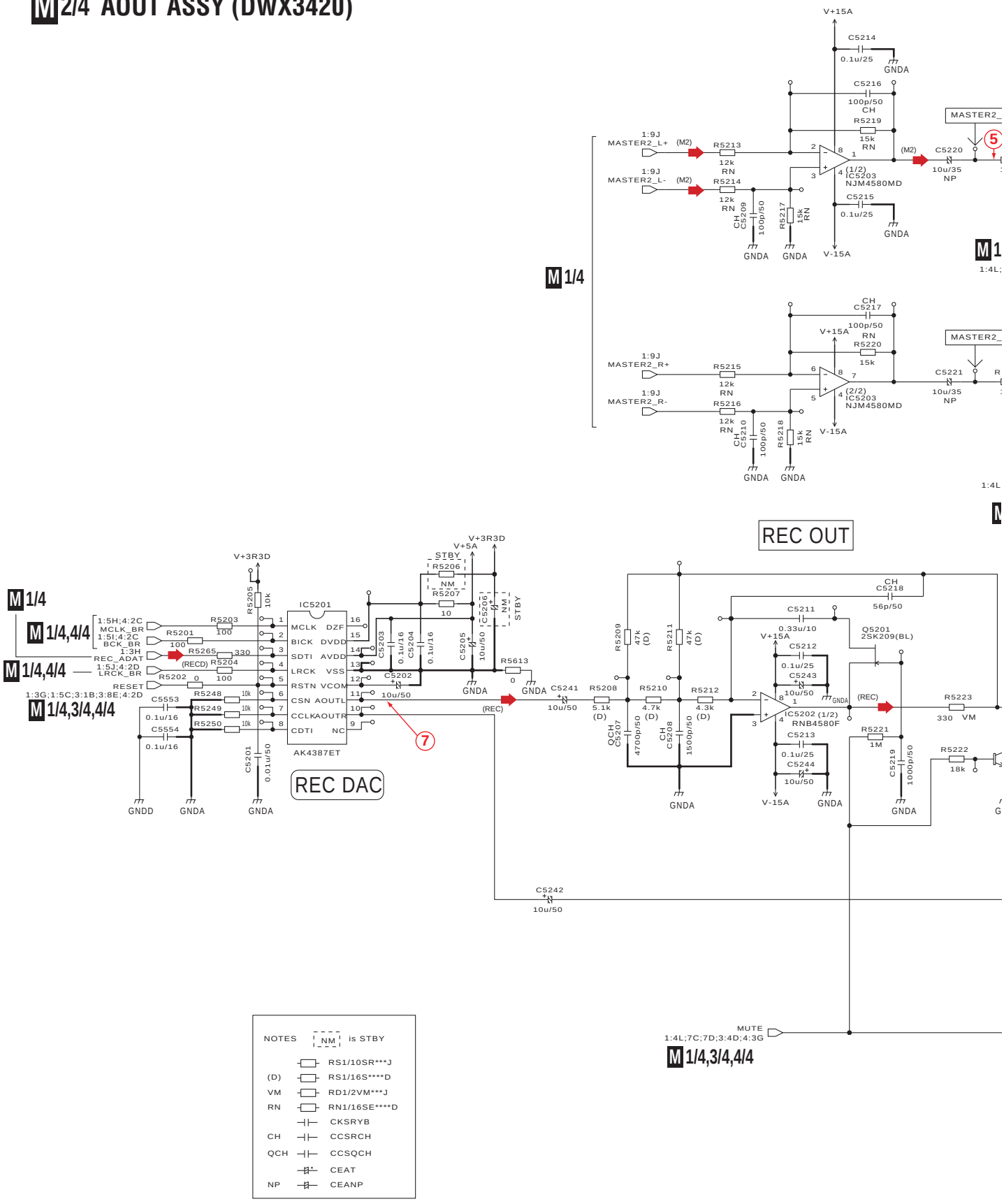
M 1/4 AOUT ASSY (DWX3420)



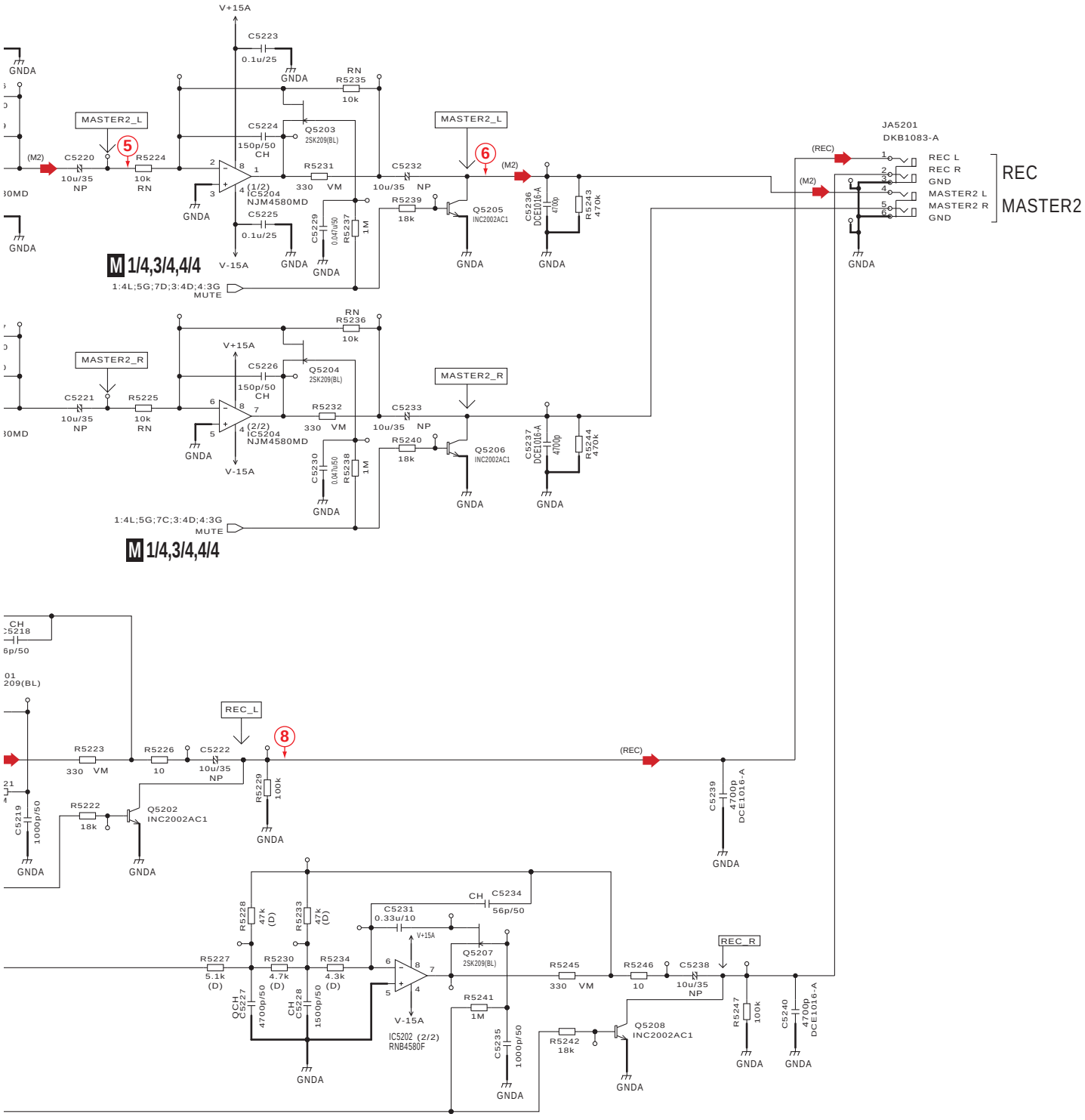

MASTER1 OUT L
CANON SHIELD
DNF1789-
MASTER1 OUT R
MASTER1 OUT
M 3/4
M 2/4
M 1/4
Audio Signal Route
(M1) : MASTER1 Signal (L CH)
(M2) : MASTER2 Signal (L CH)
(M1D) : MASTER1 Data Signal

10.19 AOUT ASSY (2/4)

M 2/4 AOUT ASSY (DWX3420)



M 2/4



Audio Signal Route

(M2) : MASTER2 Signal (L CH)

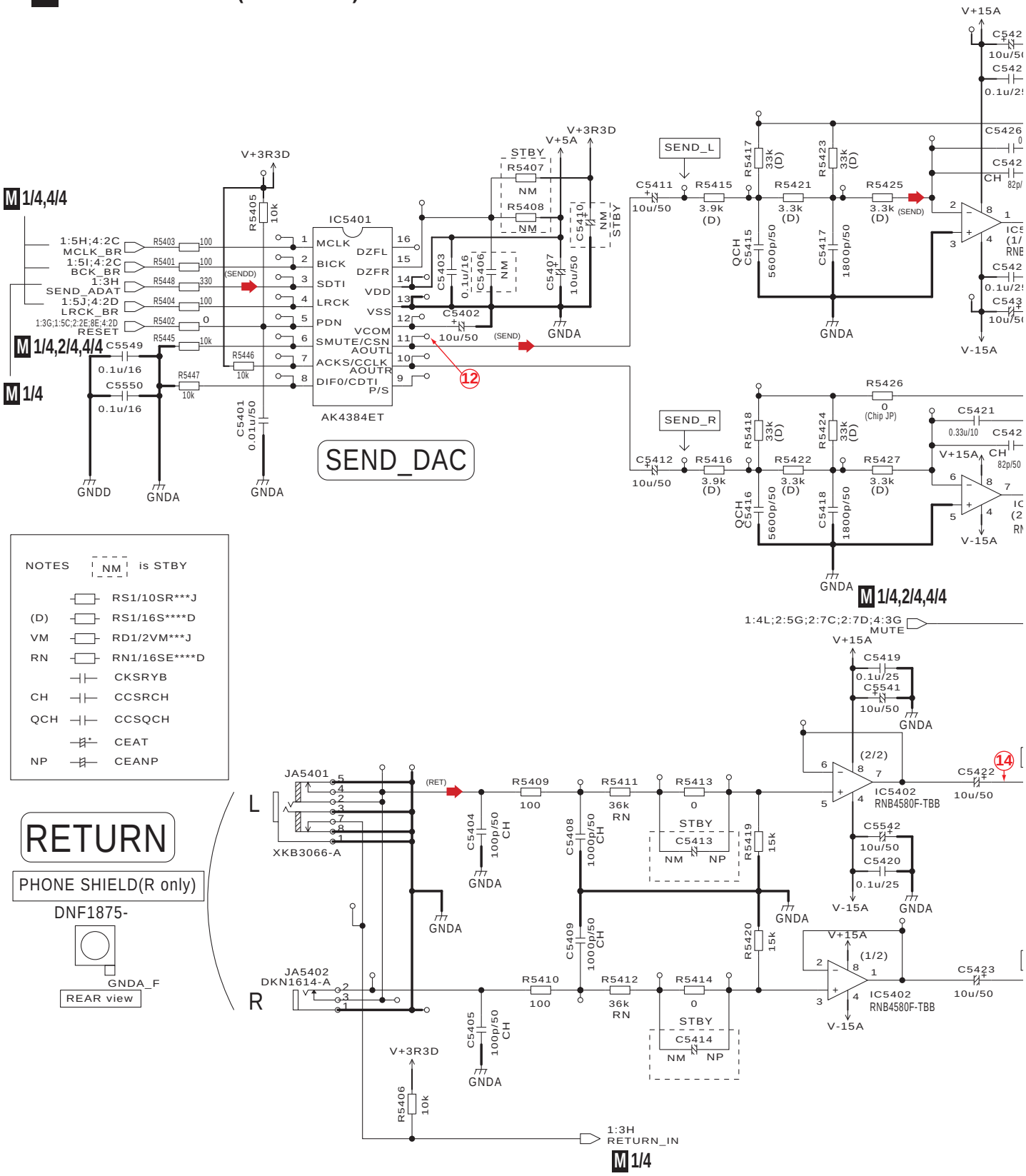
(REC) : REC Signal (L CH)

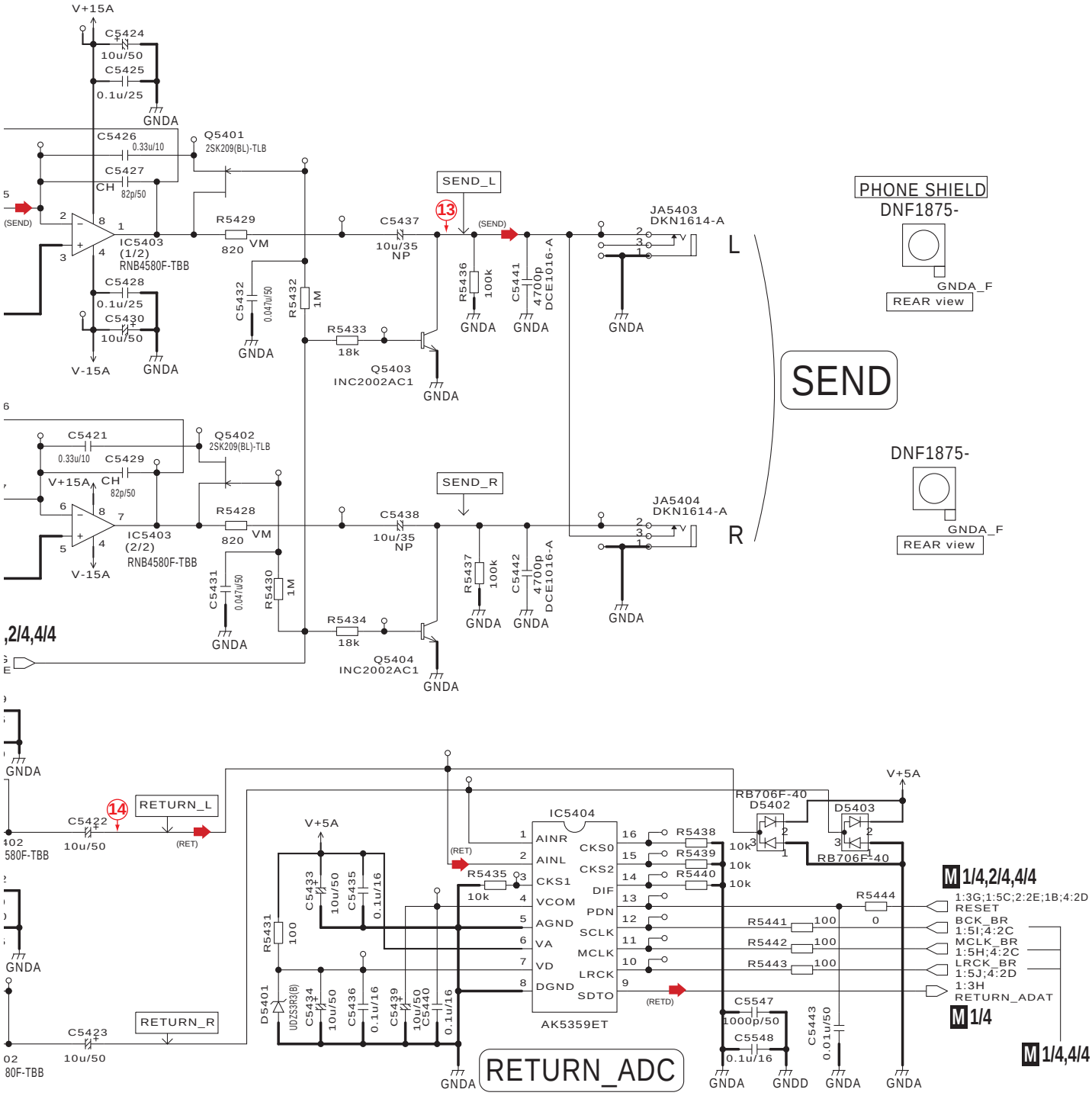
(RECD) : REC Data Signal

MASTER2 / REC

10.20 AOUT ASSY (3/4)

M 3/4 AOUT ASSY (DWX3420)





Audio Signal Route

(SEND) : SEND Signal (L CH)

(RET) : RETURN Signal (L CH)

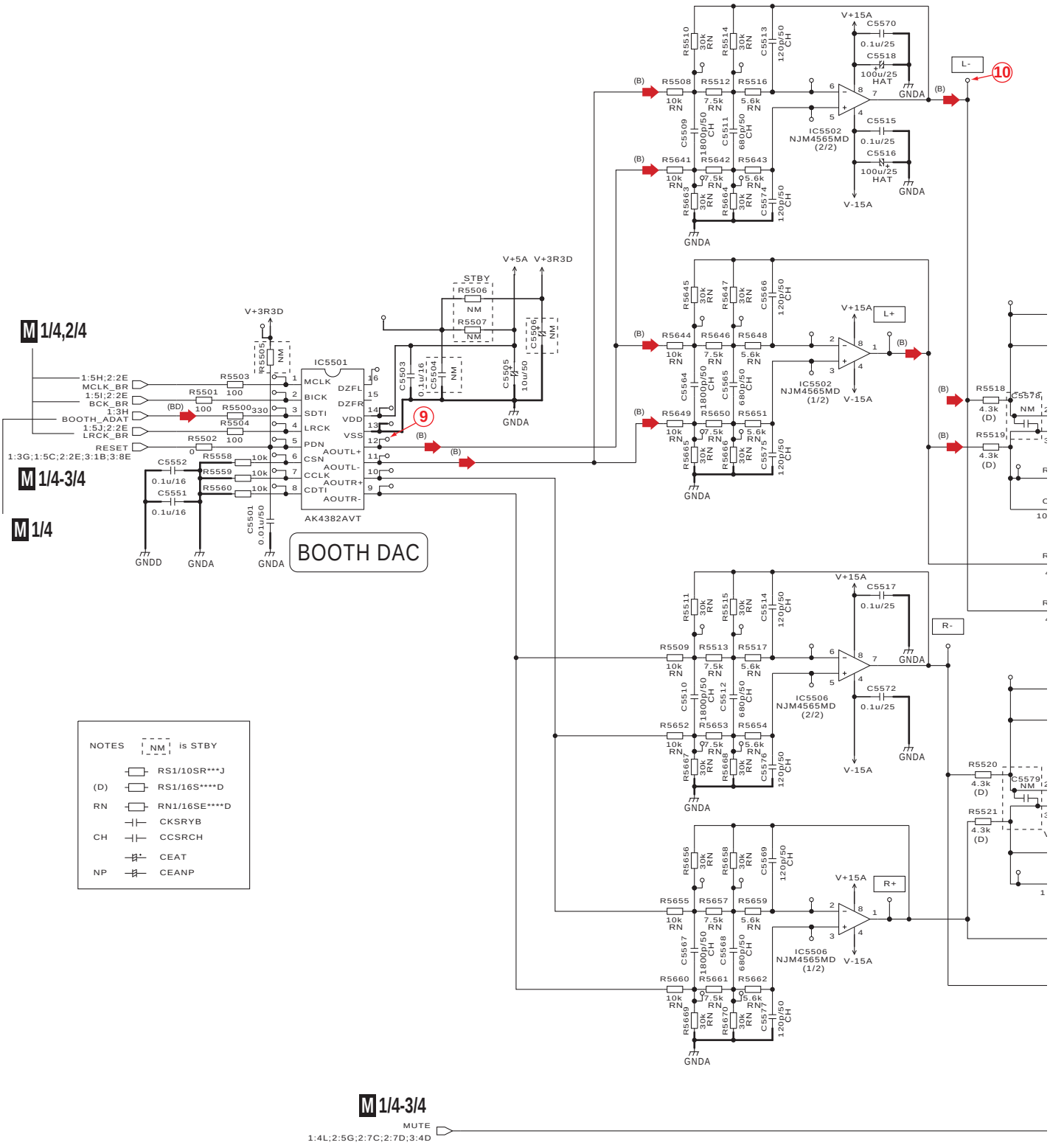
(SENDD) : SEND Data Signal

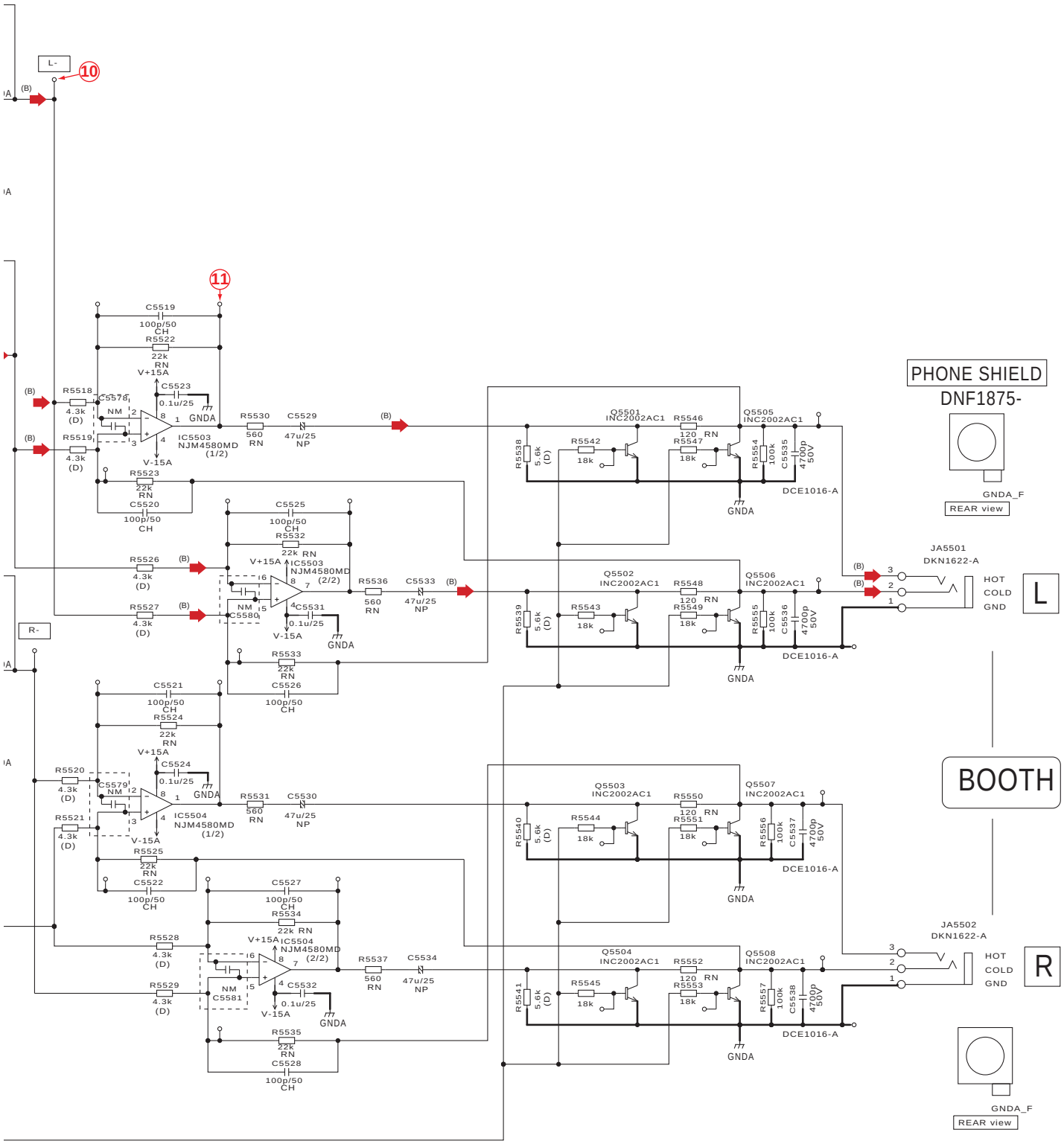
(RETD) : RETURN Data Signal

SEND/RETURN

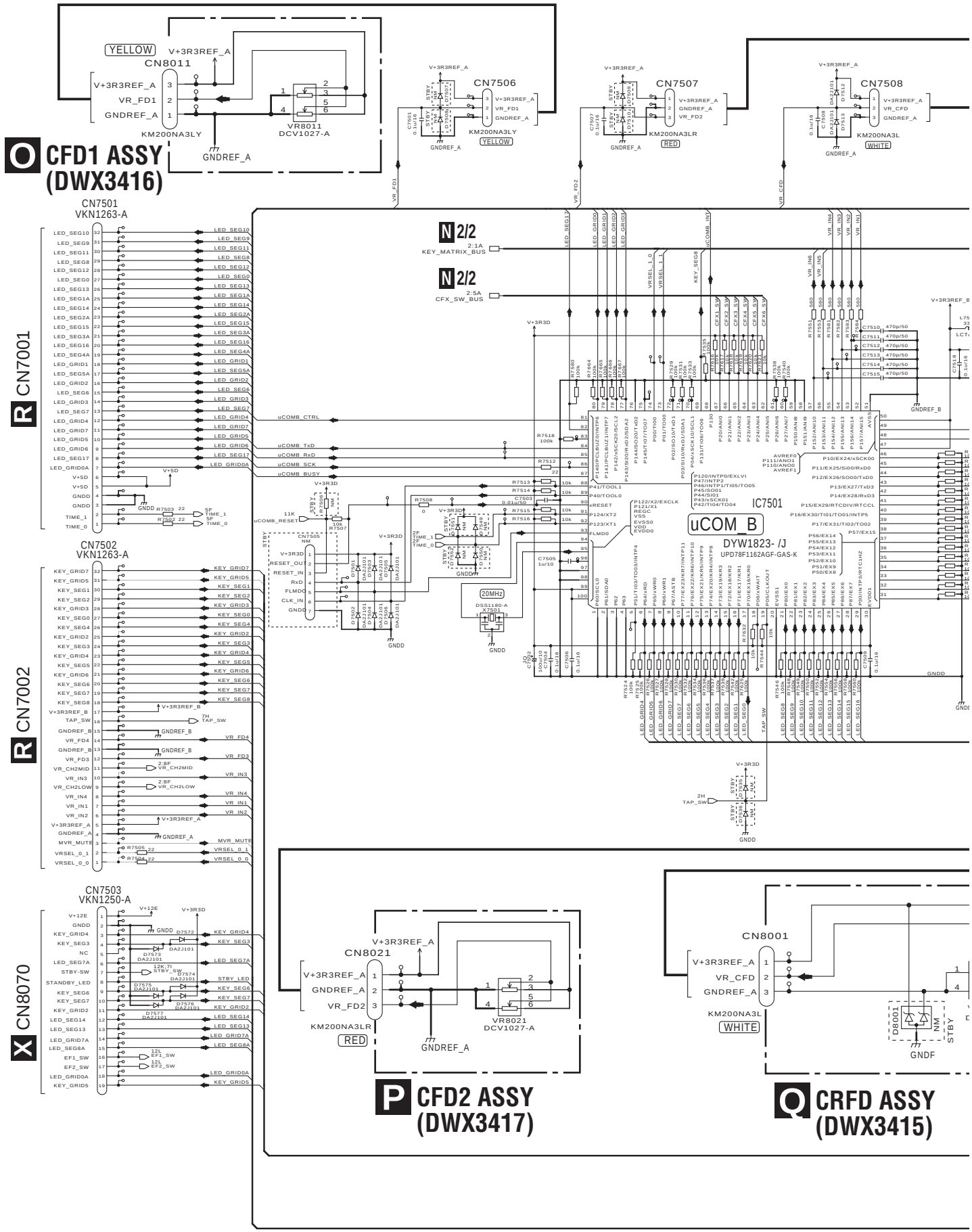
10.21 AOUT ASSY (4/4)

M 4/4 AOUT ASSY (DWX3420)

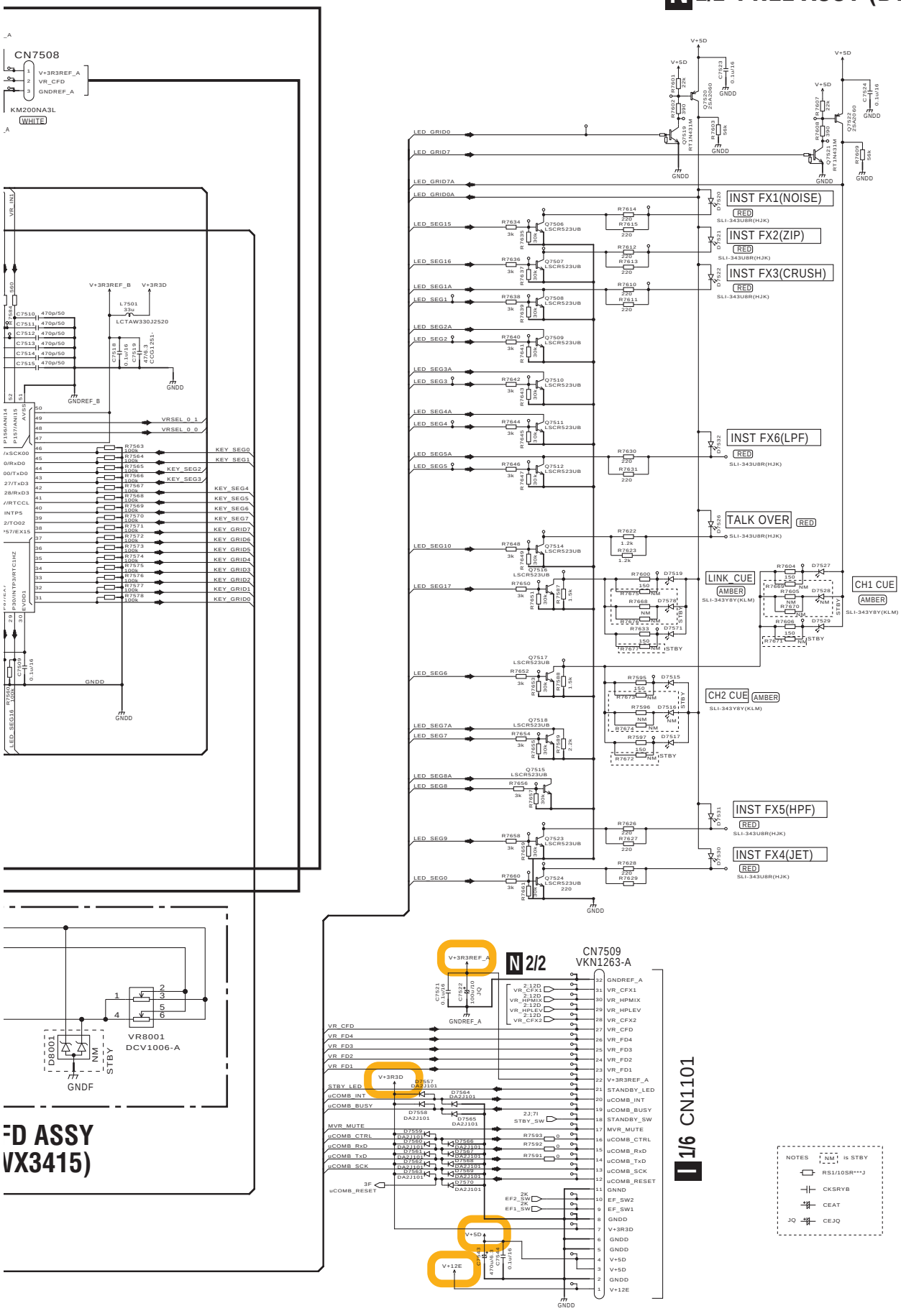



L-
R-
10
11
(B)
(BD)
R5518
R5519
4.3k (D)
C5578
C5579
NM
C5519
100p/50 CH
R5522
22k RN
V+15A
C5523
0.1u/25
GNDA
IC5503 NJM4580MD (1/2)
V-15A
R5523
22k RN
C5520
100p/50 CH
R5530
560 RN
C5529
47u/25 NP
R5520
R5521
R5525
C5522
C5524
C5521
R5524
IC5504 NJM4580MD (1/2)
R5531
C5530
C5525
R5532
C5580
C5581
C5531
C5532
C5526
R5533
R5526
R5527
R5528
R5529
C5527
R5534
C5528
R5535
IC5503 NJM4580MD (2/2)
IC5504 NJM4580MD (2/2)
R5536
C5533
R5537
C5534
Q5501 INC2002AC1
Q5502 INC2002AC1
Q5503 INC2002AC1
Q5504 INC2002AC1
R5546
R5547
R5548
R5549
R5550
R5551
R5552
R5553
R5538
R5539
R5540
R5541
R5542
R5543
R5544
R5545
5.6k (D)
18k
120 RN
Q5505 INC2002AC1
Q5506 INC2002AC1
Q5507 INC2002AC1
Q5508 INC2002AC1
R5554
R5555
R5556
R5557
100k
C5535
C5536
C5537
C5538
4700p 50V
DCE1016-A
JA5501 DKN1622-A
JA5502 DKN1622-A
HOT
COLD
GND
L
R
PHONE SHIELD
DNF1875-
GNDA_F
REAR view
BOOTH
Audio Signal Route
(B) : BOOTH Signal (L CH)
(BD) : BOOTH Data Signal
BOOTH

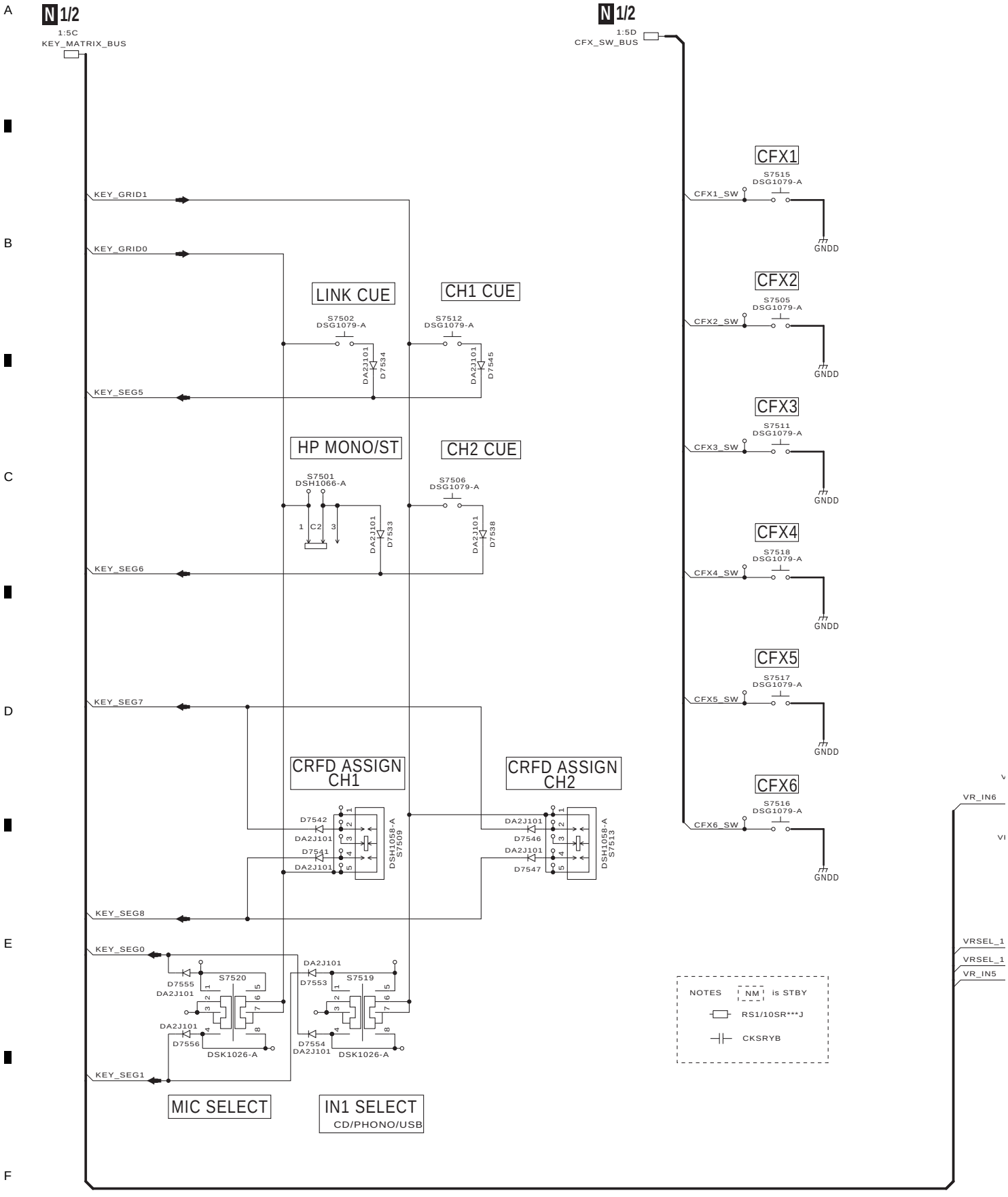
10.22 PNLE (1/2), CFD1, CFD2 and CRFD ASSYS



N 1/2 PNLE ASSY (DWX3413)

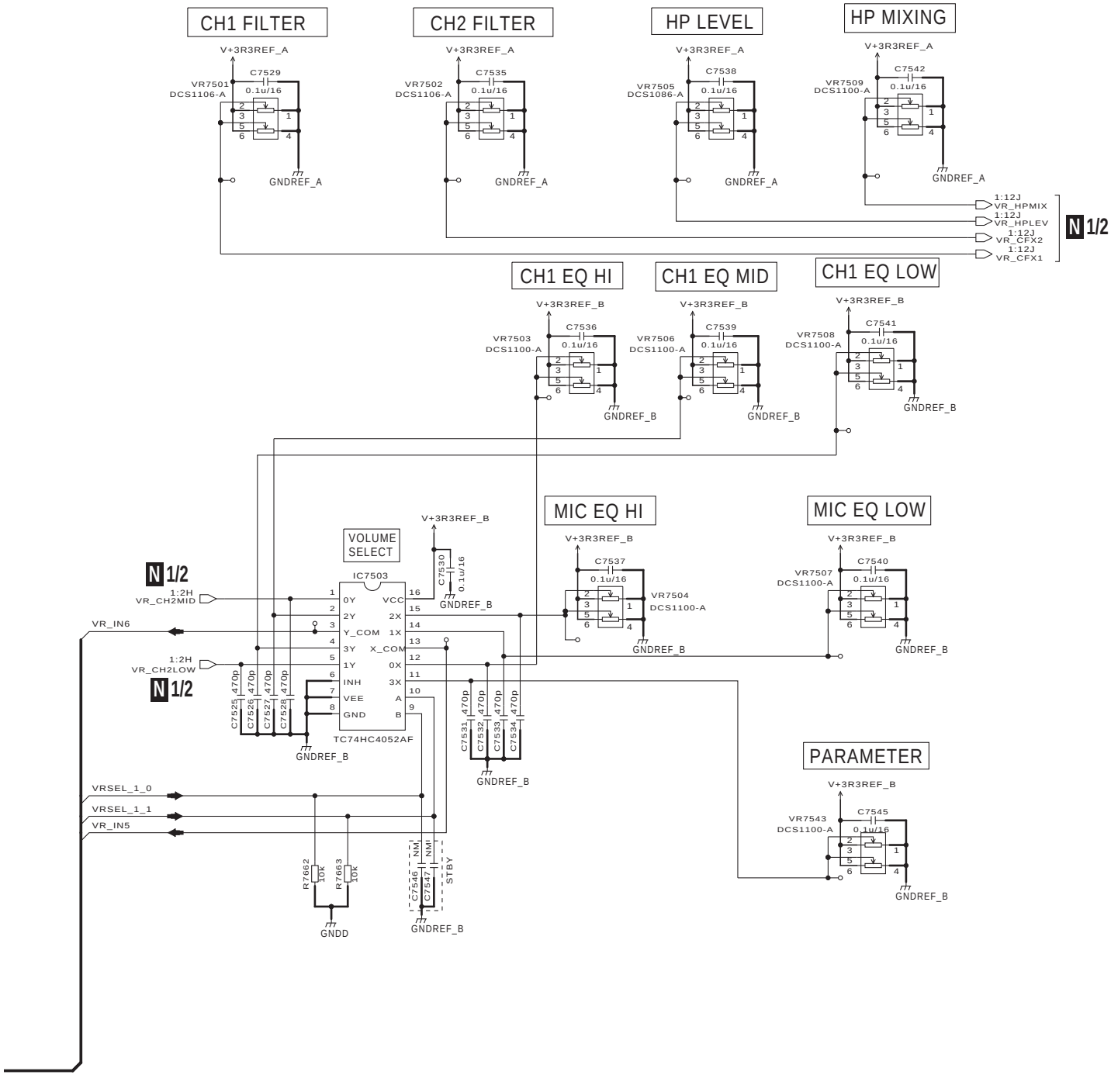


10.23 PNLE ASSY (2/2)

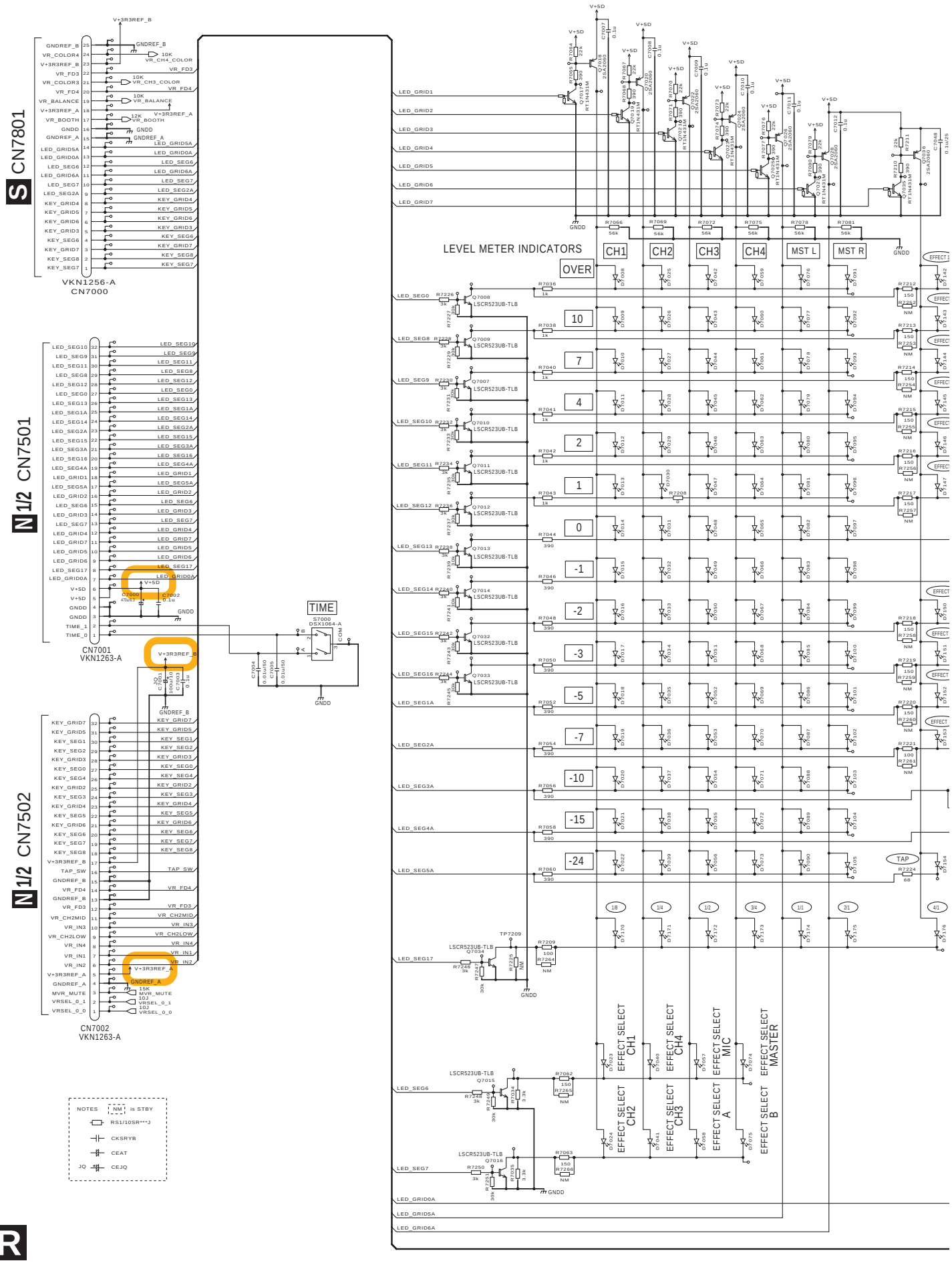


N 2/2

N 2/2 PNLE ASSY (DWX3413)



10.24 PNCE ASSY



R PNCE ASSY (DWX3426)

■LEVEL METER INDICATORS

D7008. D7009 D7025. D7026 D7042. D7043 D7059. D7060 D7076. D7077 D7091. D7092	red	SLI-343U8R(HJK)-TS
D7010～D7013 D7027～D7030 D7044～D7047 D7061～D7064 D7078～D7081 D7093～D7096	amber	SLI-343Y8Y(KLM)-TS
D7014～D7022 D7031～D7039 D7048～D7056 D7065～D7073 D7082～D7090 D7097～D7105	green	SLI-343M8G(GHJ)-TS

■EFFECT CH SELECT

D7023.D7024 D7040.D7041 D7057.D7058 D7074.D7075	red	SLI-343U8R(HJK)-TS

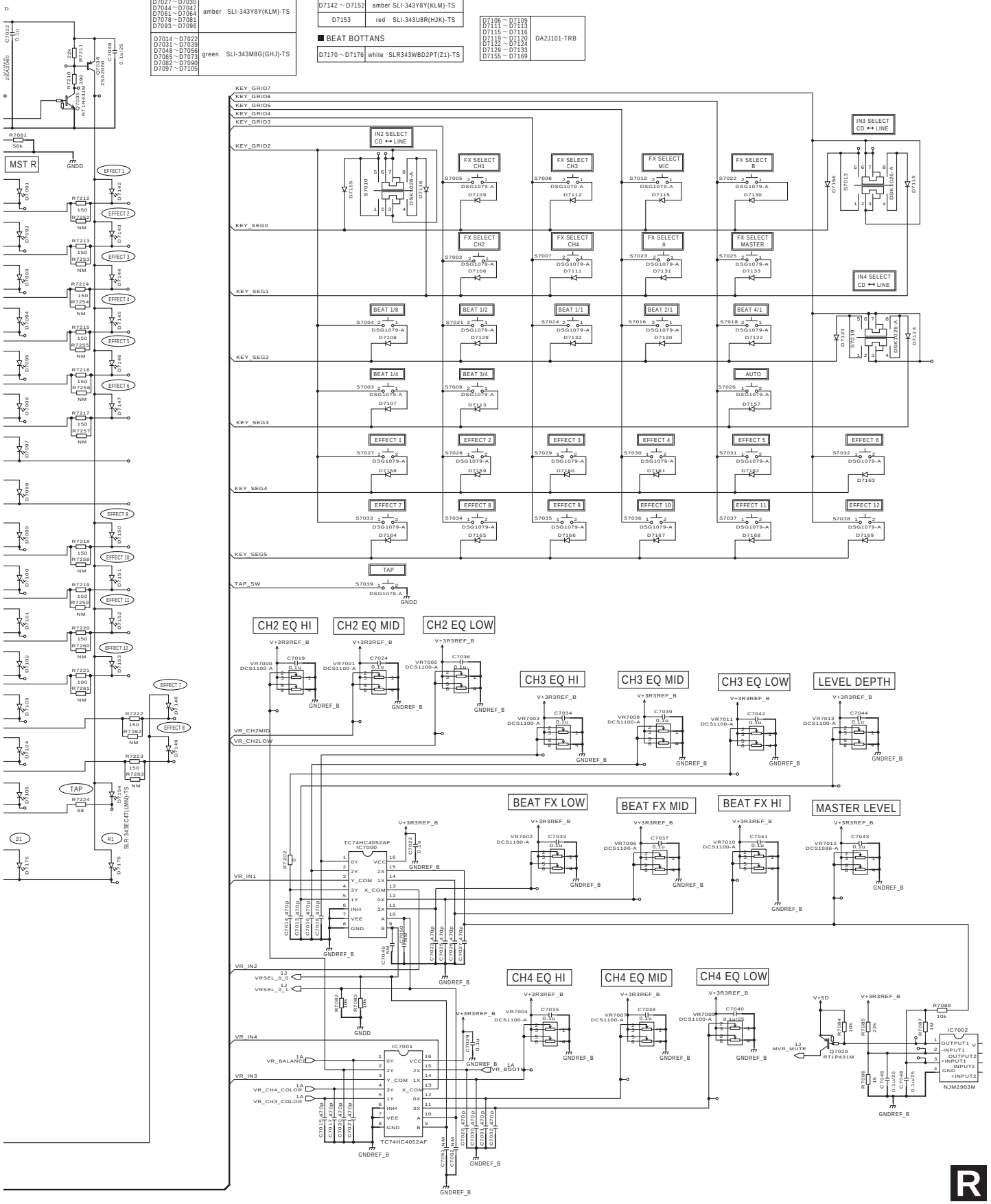
■EFFECT

D7142 ～ D7152	amber	SLI-343Y8Y(KLM)-TS
D7153	red	SLI-343U8R(HJK)-TS

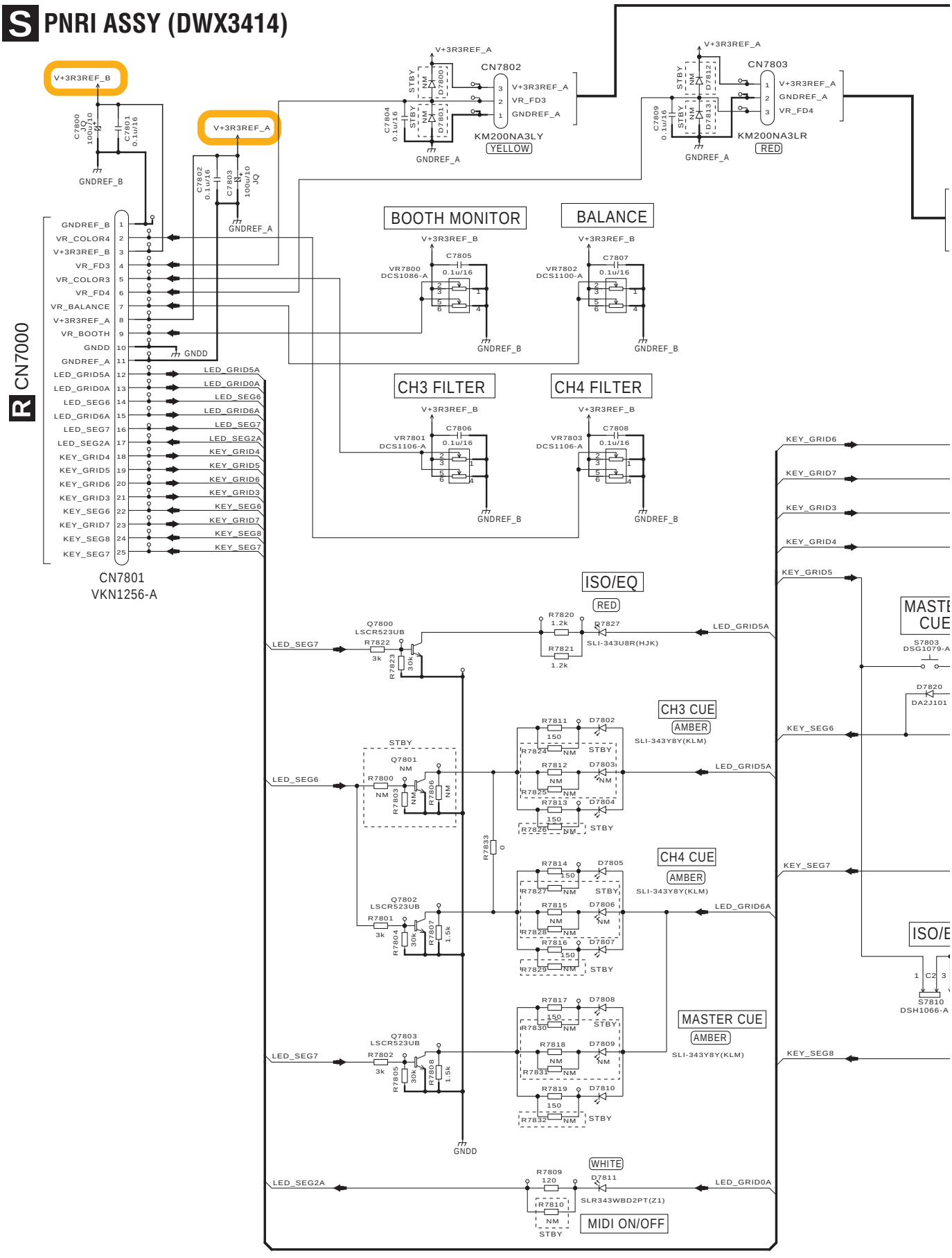
■BEAT BOTTANS

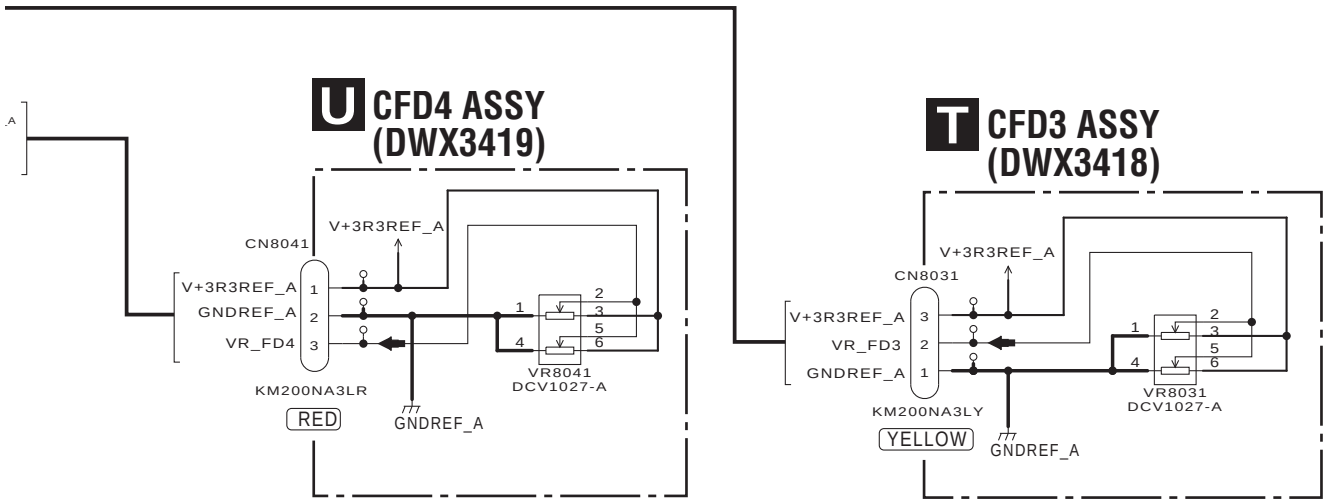
D7170 ～ D7176	white	SLR343WBD2PT(Z1)-TS

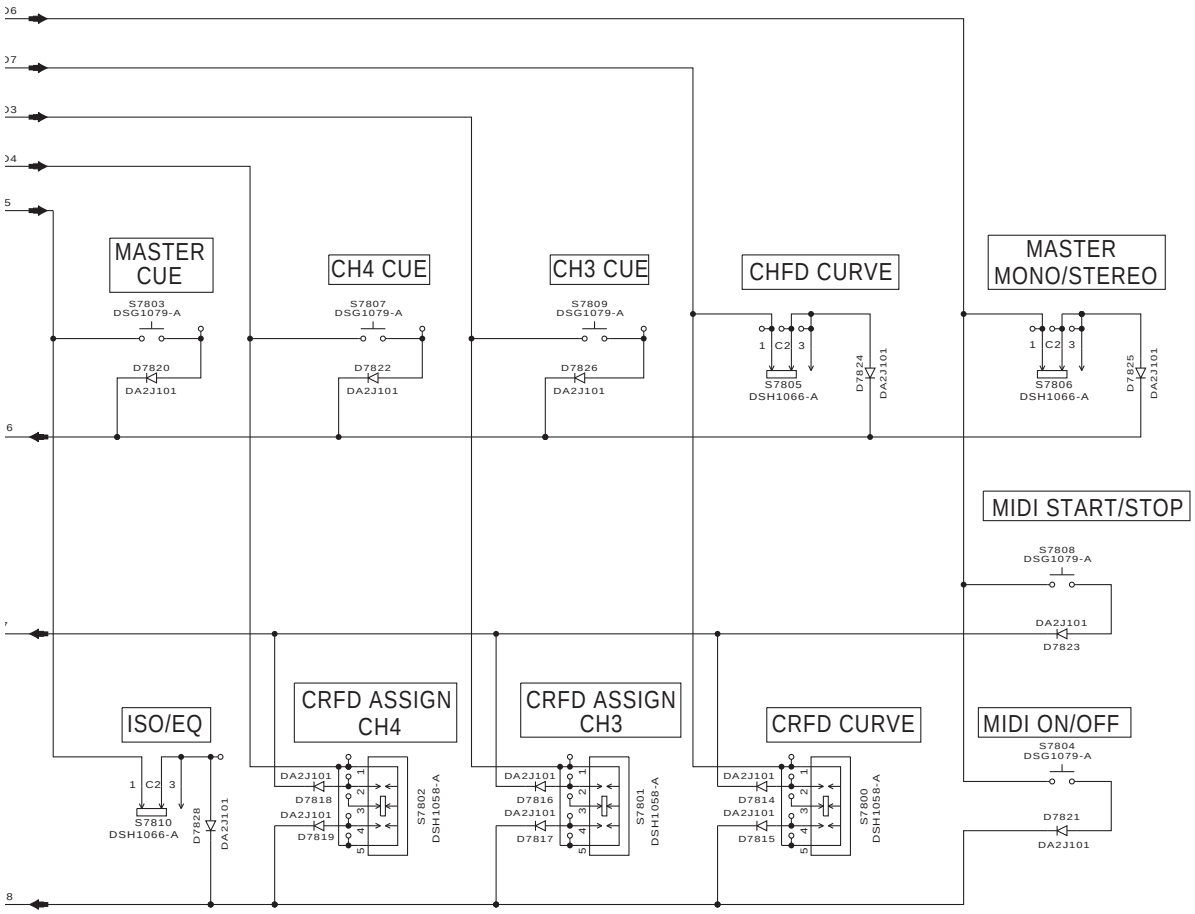
D7106 ～ D7109 D7111 ～ D7113 D7115 ～ D7116 D7119 ～ D7120 D7122 ～ D7124 D7129 ～ D7133 D7155 ～ D7169	DA2J101-TRB



S PNRI ASSY (DWX3414)

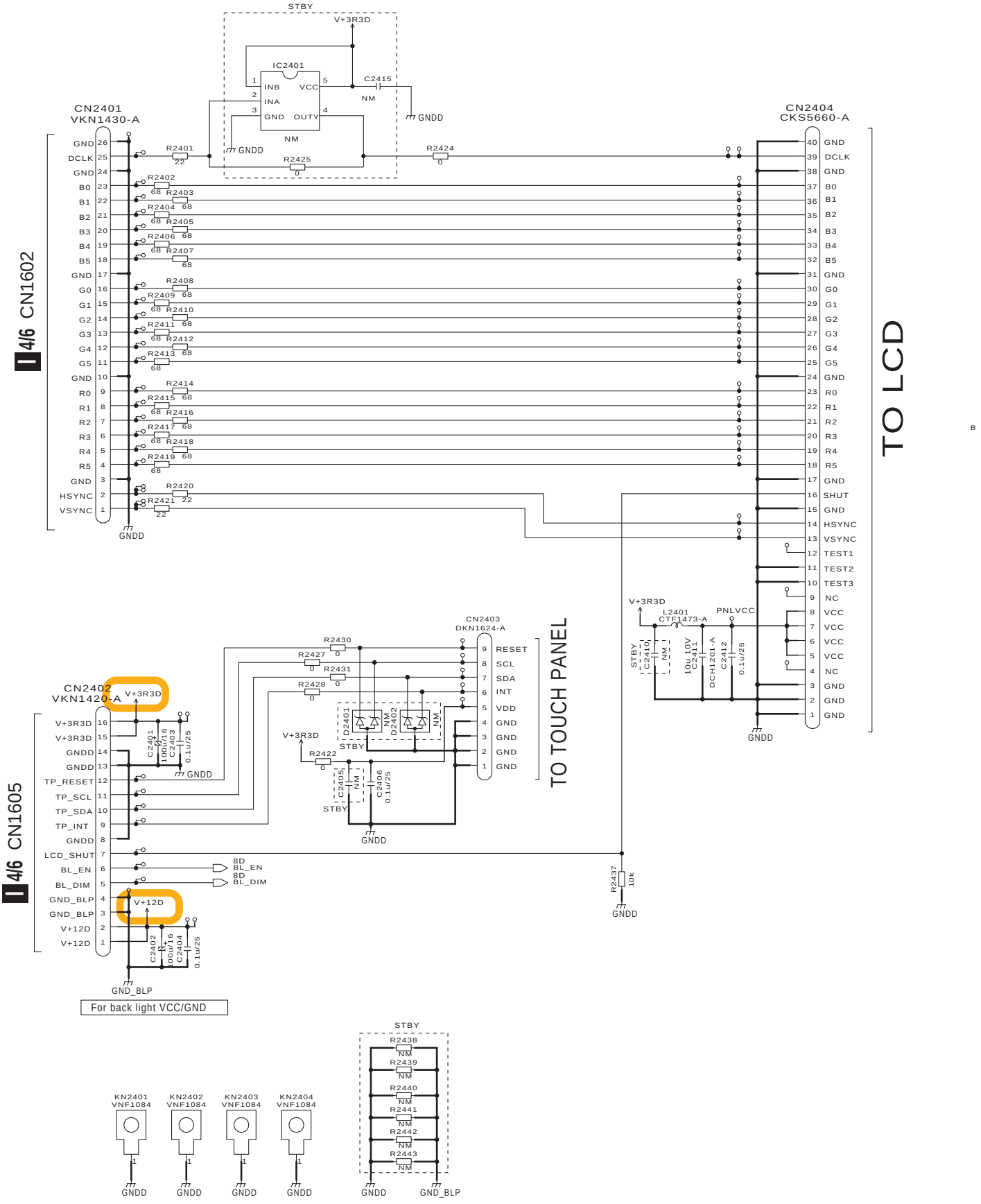






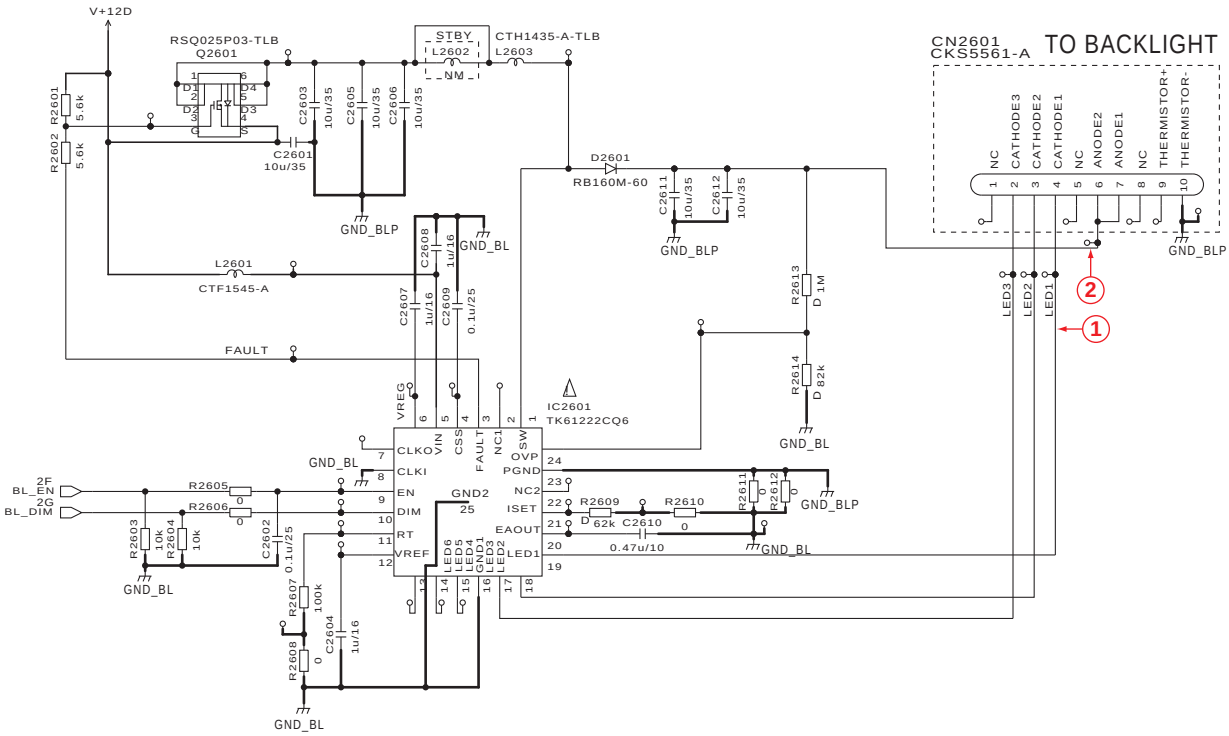
NOTES NM is STBY
RS1/10SR***J
CKSRYB
JQ CEJQ

10.26 TFTB ASSY



V TFTB ASSY (DWX2921)

TO LCD



NOTES NM is STBY

RS1/10SR***J-T

CKSRYB

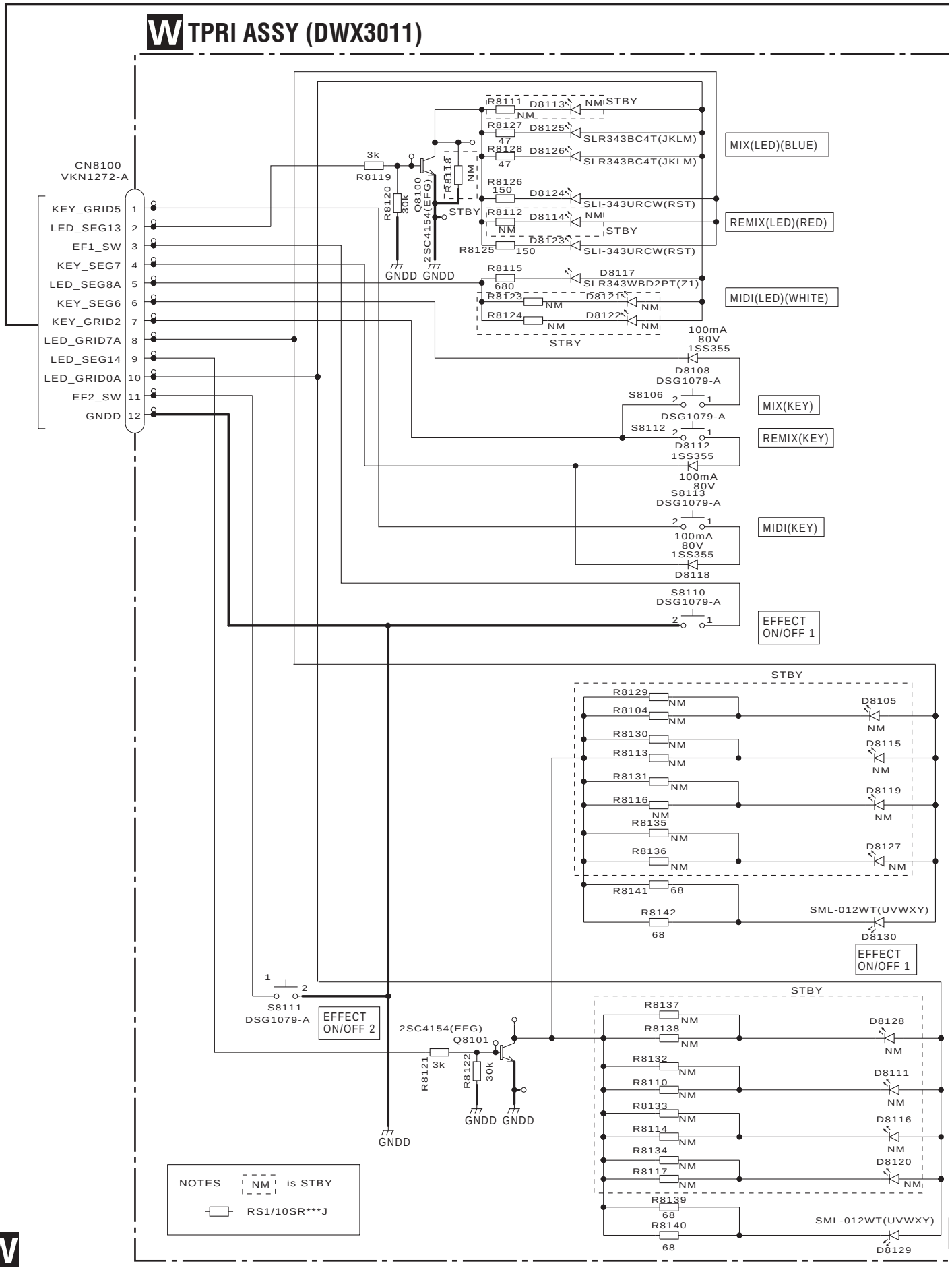
CEVW

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.

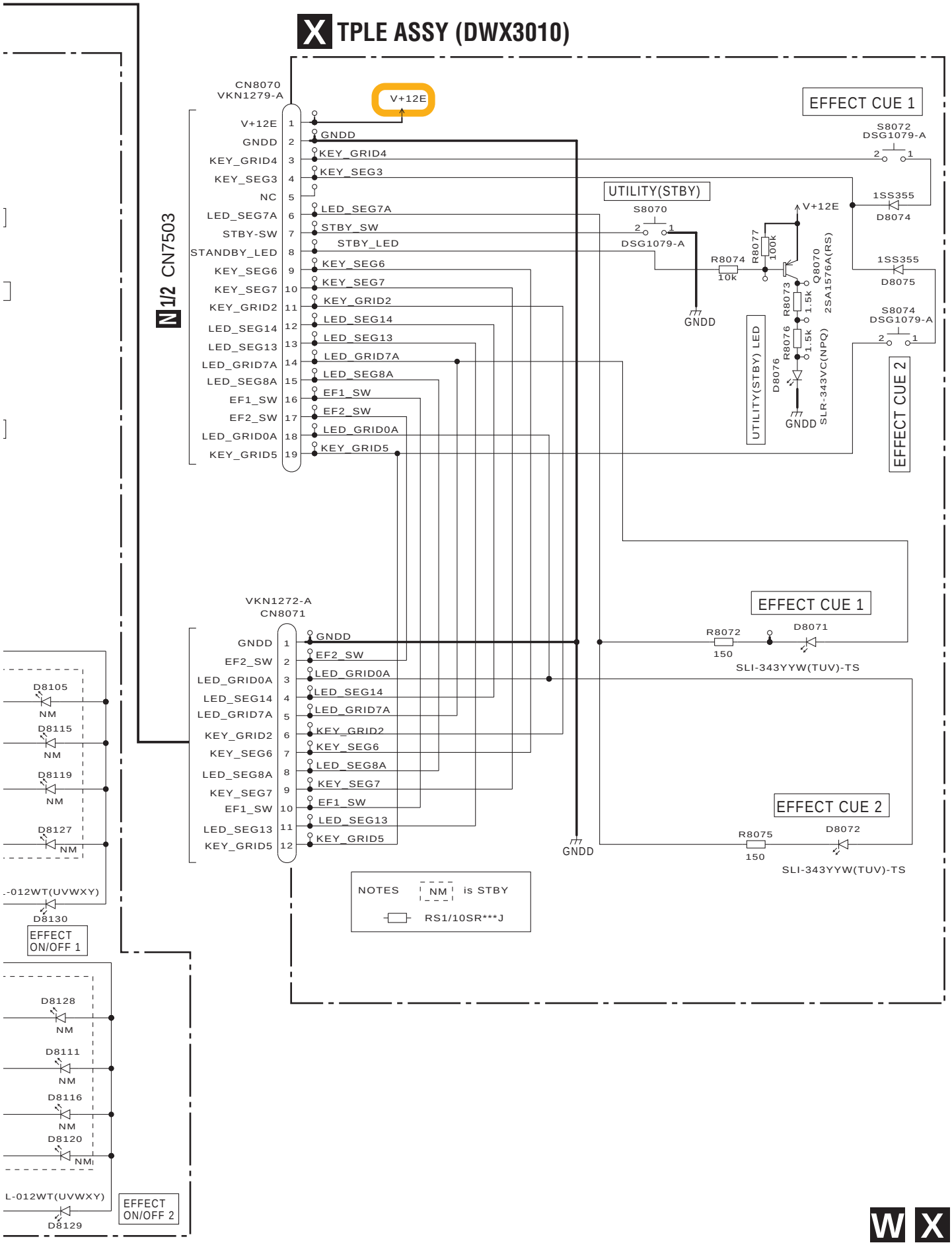
⚠ 印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため
必ず指定の部品をご使用ください。

TFT LCD/TOUCH PANEL

10.27 TPRI and TPLE ASSYS

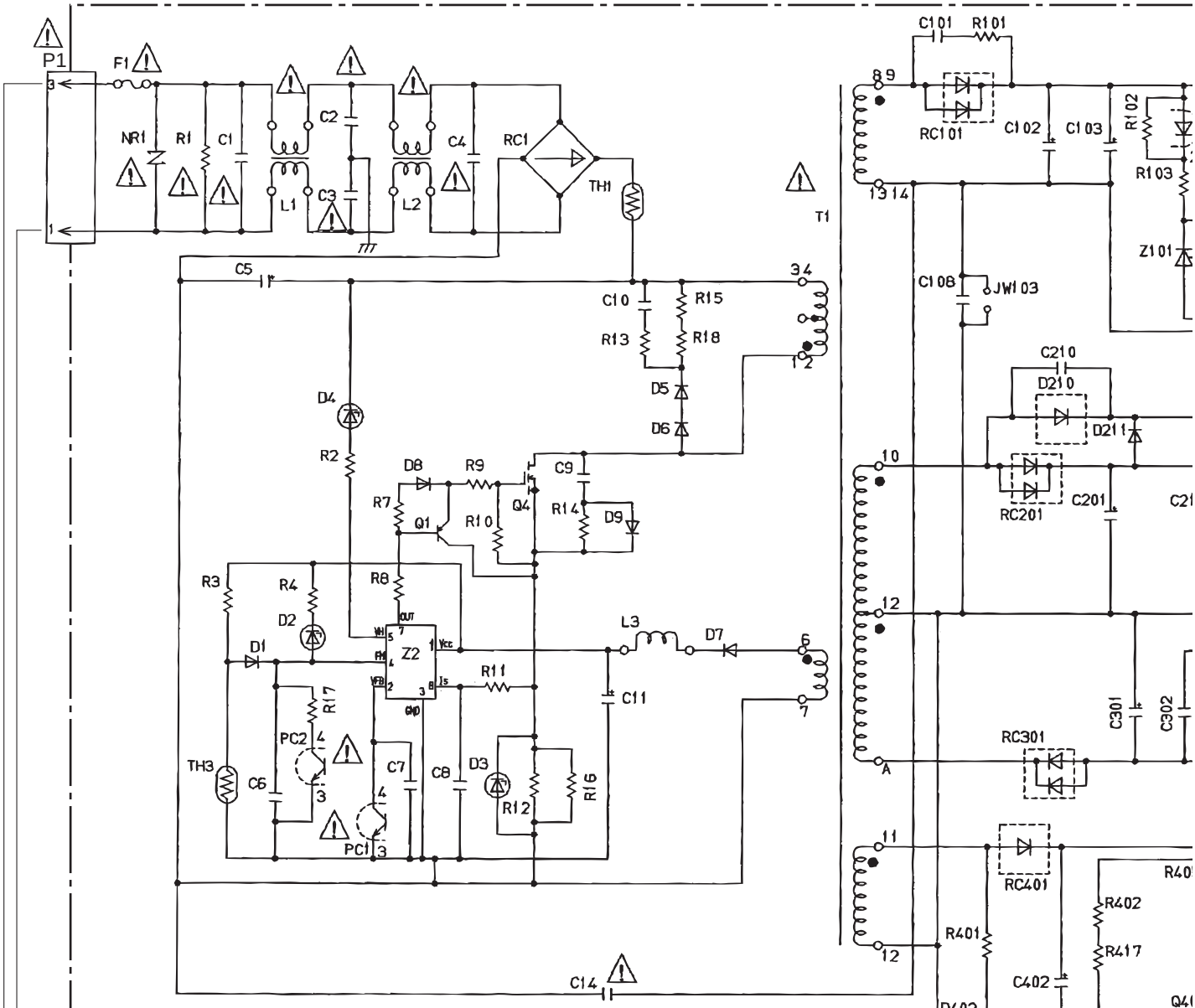


XTPLE ASSY (DWX3010)

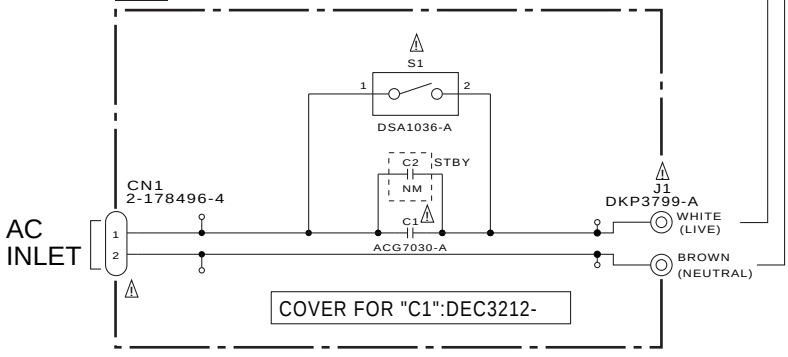


10.28 POWER SUPPLY and ACSW ASSYS

Y POWER SUPPLY ASSY (DWR1492)

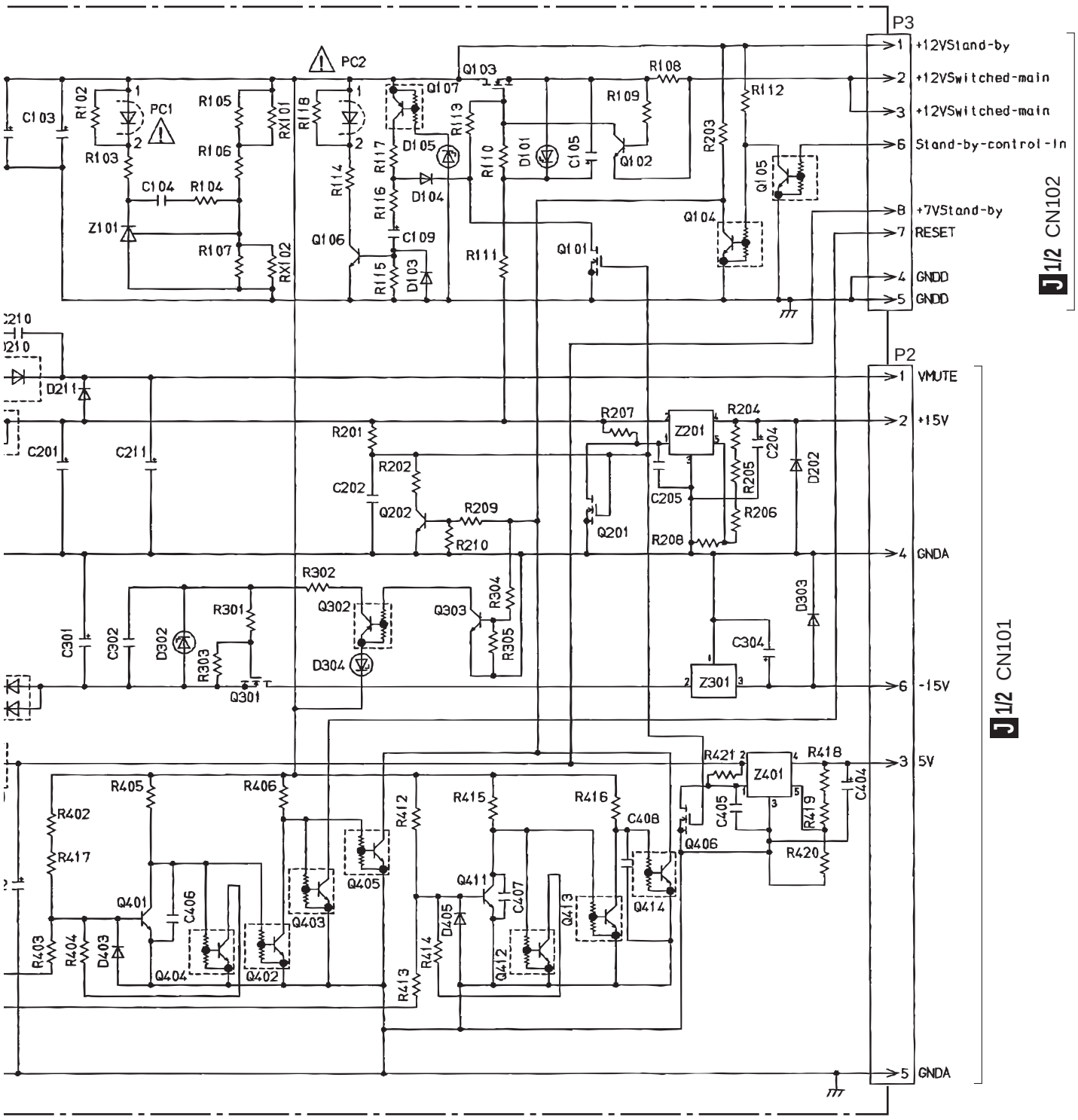


Z ACSW ASSY (DWX2918)



• NOTE
CAU

Y Z



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.

⚠ 印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため
必ず指定の部品をご使用ください。

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

10.29 WAVEFORMS

■ Measurement Conditoion

IN or OUT	Measure CH	IN CH	IN LEVEL	IN FREQUENCY	RL	Other Settings	Other Settings
IN	CD	CH1/2/3/4	0 dB	1K	-	TRIM LEVEL VR Center	-
IN	LINE	CH2/3	0 dB	1K	-	TRIM LEVEL VR Center	-
IN	PHONO	CH1/4	-40 dB	1K	-	TRIM LEVEL VR Center	-
IN	DIGITAL	CH1/2/3/4	0 dB	1K	-	TRIM LEVEL VR Center	-
IN	MIC	MIC	-40 dB	1K	-	TRIM LEVEL VR MAX	Center all EQs
IN	RETURN	RETURN	0 dB	1K	-	Level/Depth VR Center	-
IN	USB	USB1/2/3/4	0 dB	1K	-	TRIM LEVEL VR Center	-
IN	*LAN	COMPUTER1 /CH4	-	-	-	COMPUTER1: Connect with PC CH4: Connect with CDJ-2000	-
OUT	MASTER1/2	CH1/CD	0 dB	1K	10 kΩ	MASTER LEVEL VR Center	Center all EQs/FADER Max
OUT	BOOTH	CH1/CD	0 dB	1K	10 kΩ	BOOTH LEVEL VR Center	Center all EQs/FADER Max
OUT	REC	CH1/CD	0 dB	1K	10 kΩ		Center all EQs/FADER Max
OUT	SEND	CH1/CD	0 dB	1K	10 kΩ		Center all EQs/FADER Max
OUT	HP	CH1/CD	0 dB	1K	32 Ω	HP LEVEL Center	Center all EQs/FADER Max
OUT	DIG OUT	CH1/CD	0 dB	1K	75 Ω		Center all EQs/FADER Max

* CLUB SET UP: Factory setting

*For measurement of LAN AUDIO DATA, input a 1-kHz, 0-dB signal from the PC, using the LINK monitor function, for the INPUT line.
For the OUTPUT line, input a 1-kHz, 0-dB signal to MIC, using the LIVE SAMPLER function.

Measure the output waveforms at the CH1 CD input.

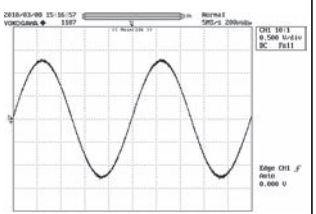
Switch Type Setting

MASTER ATT	: 0 dB
MONO/ST(HP)	: ST
MON/ST(MASTER)	: ST
CH FADER CURVE	: Right side (linear)
CROSS FADER CURVE	: Center
CROSS FADER ASSIGN	: THRU
MIC SW	: ON
MASTER CUE	: ON
FILTER	: MIN
ISOLATOR	: EQ

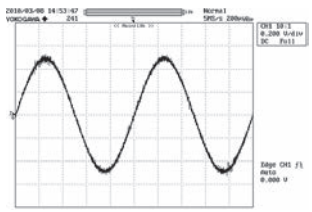
A AIN1 ASSY

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

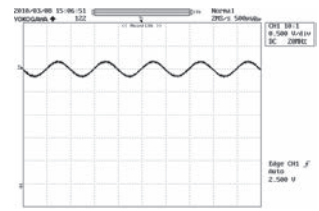
1 **R4944_TP (PHONO1_L)**
V: 0.5 V/div. H: 200 µS/div.



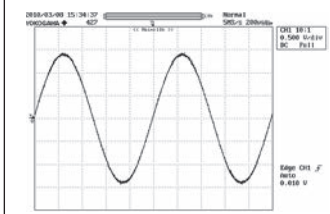
3 **CN3000 - pin 5_TP**
V: 0.2 V/div. H: 200 µS/div.



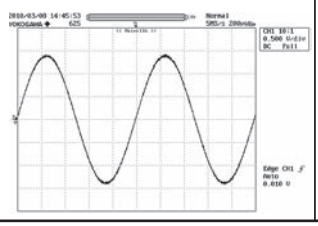
5 **R3096_TP (L-)**
V: 0.5 V/div. H: 500 µS/div.



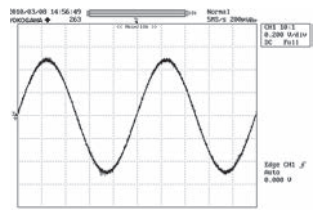
7 **RY3301 - pin 7**
V: 0.5 V/div. H: 200 µS/div.



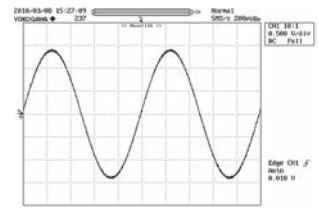
2 **C4937_TP (LINE1_L)**
V: 0.5 V/div. H: 200 µS/div.



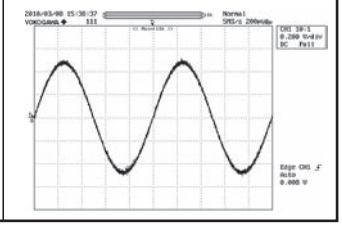
4 **IC3004 - pin 1_TP-R3040**
V: 0.2 V/div. H: 200 µS/div.



6 **R4952_TP (CD2_L)**
V: 0.5 V/div. H: 200 µS/div.

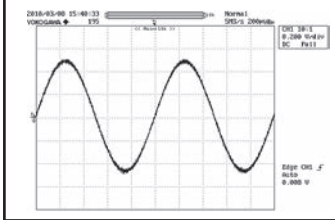


8 **CN3300 - pin 5_TP**
V: 0.2 V/div. H: 200 µS/div.

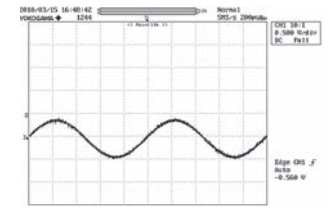


A AIN1 ASSY

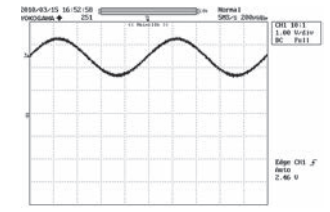
9 **IC3303 - pin 1_TP**
V: 0.2 V/div. H: 200 µS/div.



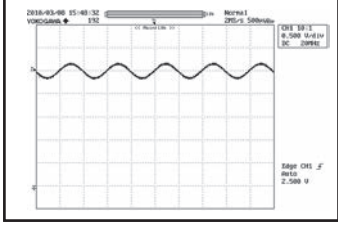
11 **IC4900 - pin 1_TP (MIC1_IN)**
V: 0.5 V/div. H: 200 µS/div.



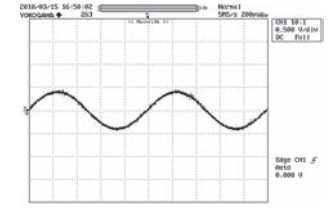
13 **C4917_TP (MIC ADC IN)**
V: 1 V/div. H: 200 µS/div.



10 **D3303_TP**
V: 0.5 V/div. H: 500 µS/div.

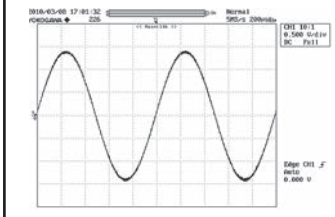


12 **VR4900 - pin 2_TP**
V: 0.5 V/div. H: 200 µS/div.

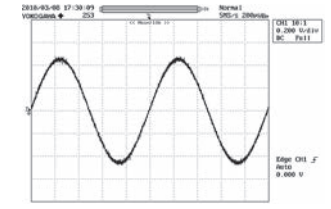


G AIN2 ASSY

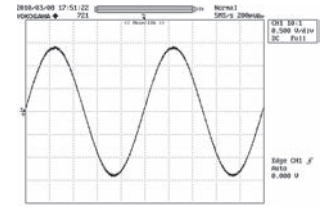
1 **R4206_TP (CD3_L)**
V: 0.5 V/div. H: 200 µS/div.



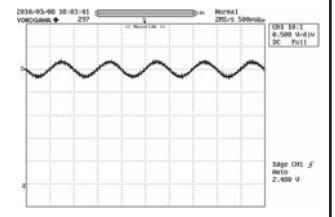
4 **IC3603 - pin 1_TP**
V: 0.2 V/div. H: 200 µS/div.



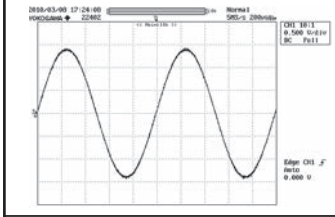
7 **C4228 (C4228-R4212)**
V: 0.5 V/div. H: 200 µS/div.



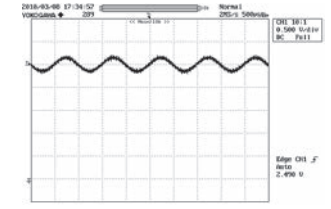
10 **D3902_TP**
V: 0.5 V/div. H: 500 µS/div.



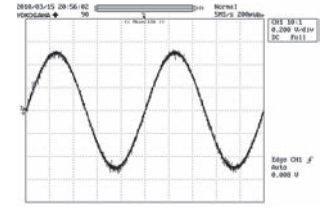
2 **C4224_pin 1**
V: 0.5 V/div. H: 200 µS/div.



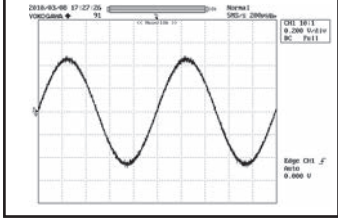
5 **R3700_TP**
V: 0.5 V/div. H: 500 µS/div.



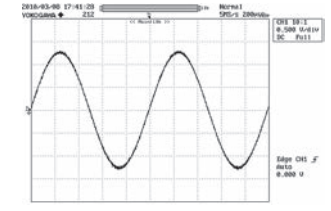
8 **CN3900 - pin 5**
V: 0.2 V/div. H: 200 µS/div.



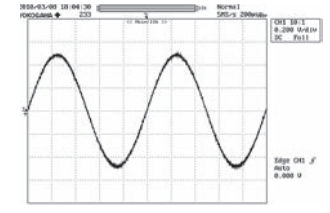
3 **CN3600 - pin 5**
V: 0.2 V/div. H: 200 µS/div.



6 **C4226 - pin 2 (C4226-R4210)**
V: 0.5 V/div. H: 200 µS/div.

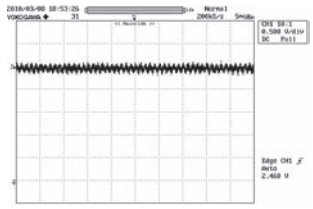


9 **IC3904 - pin 1_TP-R3940**
V: 0.2 V/div. H: 200 µS/div.

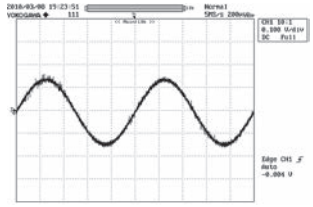


M AOUT ASSY

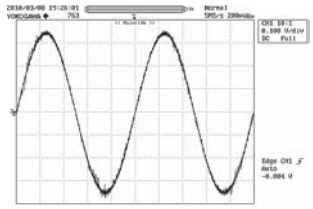
1 **IC5010_pin 21_TP**
V: 0.5 V/div. H: 5 mS/div.



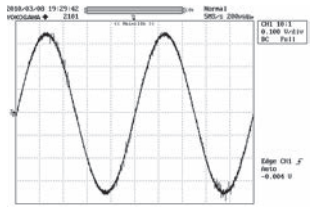
2 **R5064**
V: 0.1 V/div. H: 200 µS/div.



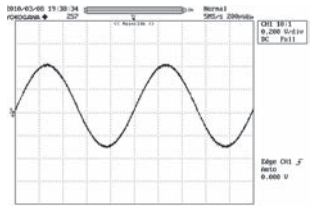
3 **R5130**
V: 0.1 V/div. H: 200 µS/div.



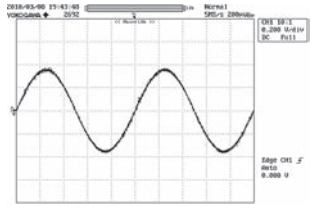
4 **RY5001_pin 7 - R5254 (Thru hole)**
V: 0.1 V/div. H: 200 µS/div.



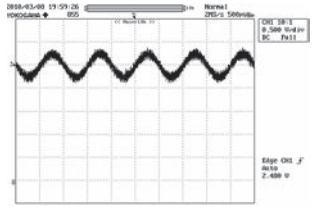
5 **C5220 - C5216 (Thru hole) (MASTER2_L)**
V: 0.2 V/div. H: 200 µS/div.



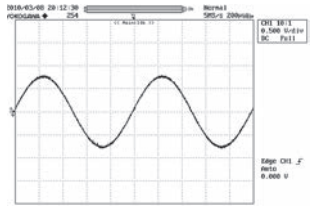
6 **R5243 (R5243-C5236) (MASTER2_L)**
V: 0.2 V/div. H: 200 µS/div.



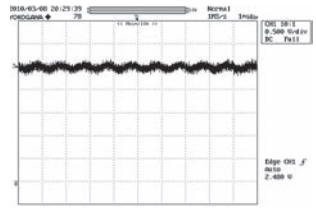
7 **IC5201 - pin 11 - C5241 (Thru hole)**
V: 0.5 V/div. H: 500 µS/div.



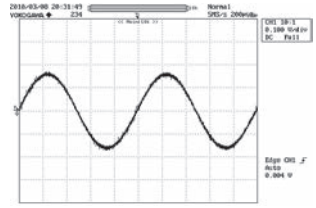
8 **C5222 - R5229 (Thru hole) (REC_L)**
V: 0.5 V/div. H: 200 µS/div.



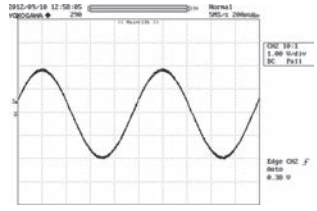
9 **IC5501 - pin 12**
V: 0.5 V/div. H: 1 mS/div.



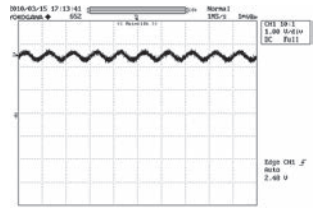
10 **IC5502 - pin 7**
V: 0.1 V/div. H: 200 µS/div.



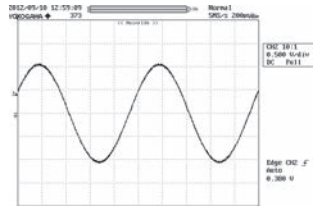
11 **IC5503 - pin 1**
V: 1 V/div. H: 200 µS/div.



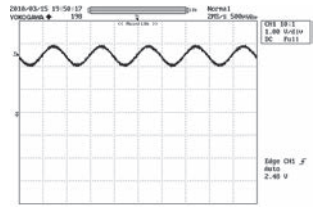
12 **IC5401 - pin 11 - C5411 (Thru hole)**
V: 1 V/div. H: 1 mS/div.



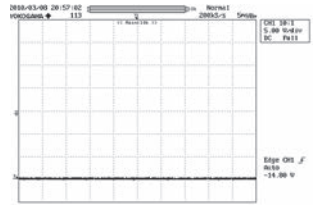
13 **C5437 - Q5403 (Thru hole) (SEND_L)**
V: 0.5 V/div. H: 200 µS/div.



14 **C5422 - D5402 (Thru hole)**
V: 1 V/div. H: 500 µS/div.

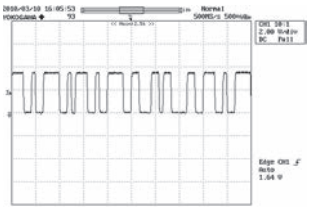


15 **R5598_TP (MUTE)**
V: 5 V/div. H: 5 mS/div.

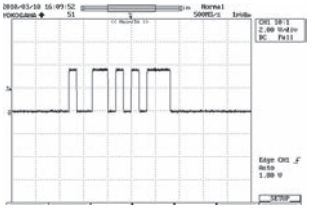


H PCIF ASSY

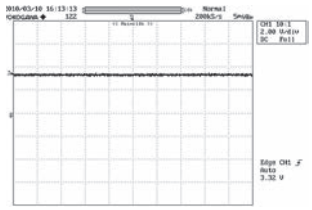
1 **D2001_pin 2**
V: 2 V/div. H: 500 nS/div.



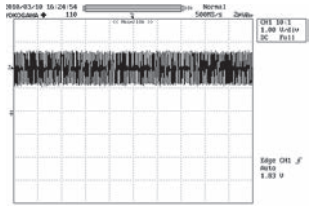
2 **CN2001 - pin 11_TP**
V: 2 V/div. H: 1 µS/div.



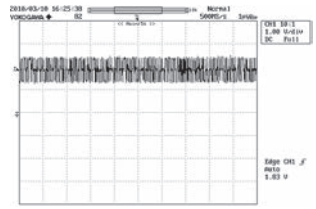
3 **R2015_TP (USB_RESET)**
V: 2 V/div. H: 5 mS/div.



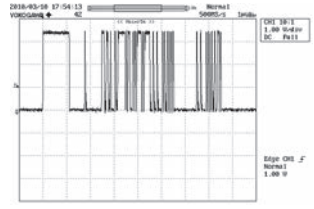
4 **R2082**
V: 1 V/div. H: 2 µS/div.



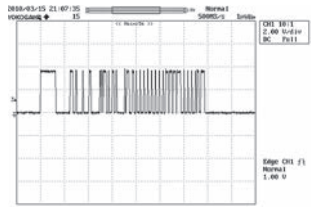
5 **R2084**
V: 1 V/div. H: 1 µS/div.



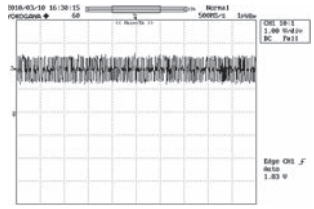
6 **IC2009 - pin 6_TP**
V: 1 V/div. H: 1 µS/div.



7 **IC2009 - pin 22_TP**
V: 2 V/div. H: 1 µS/div.

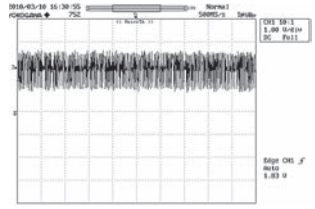


8 **R2077**
V: 1 V/div. H: 1 µS/div.

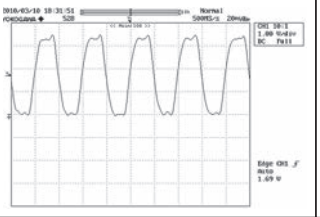


H PCIF ASSY

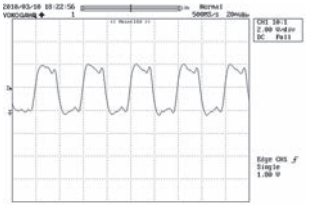
9 **R2075**
V: 1 V/div. H: 1 µS/div.



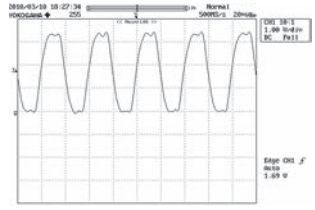
11 **IC2010 - pin 93_TP**
V: 1 V/div. H: 20 nS/div.



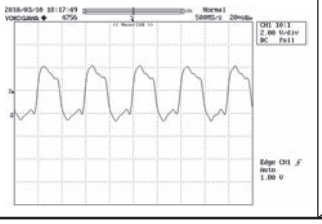
13 **IC2009 - pin 16_TP**
V: 2 V/div. H: 20 nS/div.



10 **IC2009 - pin 46_TP**
V: 1 V/div. H: 20 nS/div.

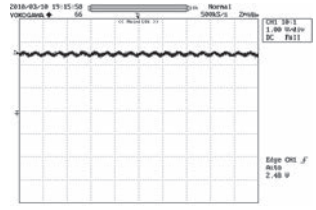


12 **IC2009 - pin 7_TP**
V: 2 V/div. H: 20 nS/div.

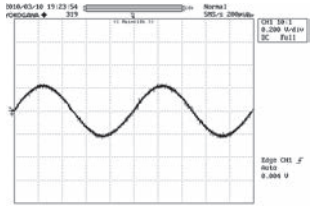


J HAMP ASSY

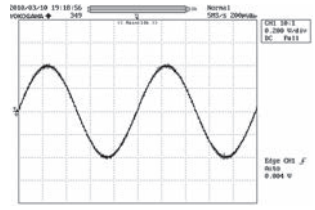
1 **IC5604 - pin 12_TP (AOUTL+)**
V: 1 V/div. H: 2 mS/div.



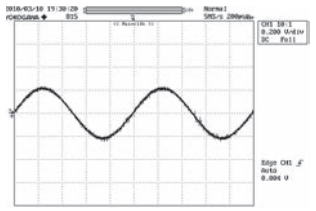
3 **R5761 - R5764_(R5764)**
V: 0.2 V/div. H: 200 µS/div.



2 **C5618 - R5736_(R5736)**
V: 0.2 V/div. H: 200 µS/div.

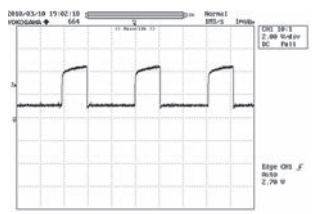


4 **CN5602_pin 1**
V: 0.2 V/div. H: 200 µS/div.

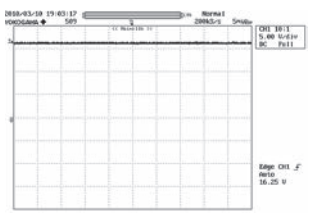


V TFTB ASSY

1 **CN2601 - pin 4_TP (LED1)**
V: 2 V/div. H: 1 mS/div.

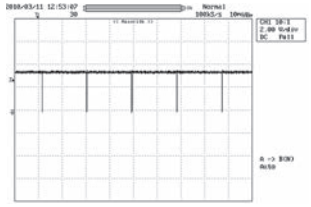


2 **CN2601 - pin 6 (ANODE2)**
V: 5 V/div. H: 5 mS/div.

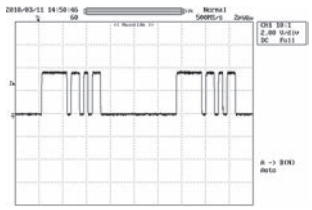


MAIN ASSY

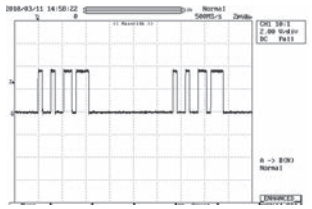
1 **CN1103_pin 23_TP (MIDI_TXD)**
V: 2 V/div. H: 10 mS/div.



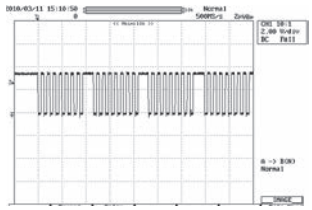
2 **CN1103_pin 19_TP (USB_DOUT)**
V: 2 V/div. H: 2 µS/div.



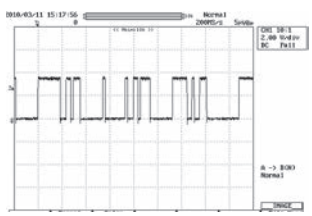
3 **CN1103_pin 16_TP (USB_DIN1)**
V: 2 V/div. H: 2 µS/div.



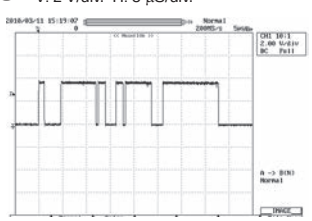
4 **CN1101_pin 13_TP**
V: 2 V/div. H: 2 µS/div.



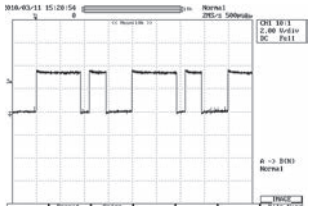
5 **CN1101_pin 14_TP**
V: 2 V/div. H: 5 µS/div.



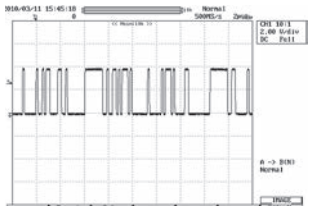
6 **CN1101_pin 15_TP**
V: 2 V/div. H: 5 µS/div.



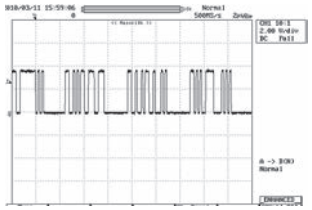
7 **CN1101_pin 16_TP**
V: 2 V/div. H: 500 µS/div.



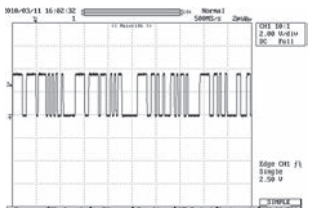
8 **CN1106_pin 2_TP**
V: 2 V/div. H: 2 µS/div.



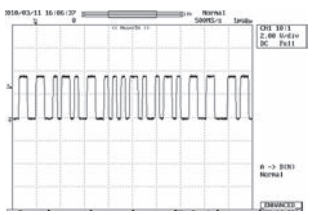
9 **CN1106_pin 5_TP**
V: 2 V/div. H: 2 µS/div.



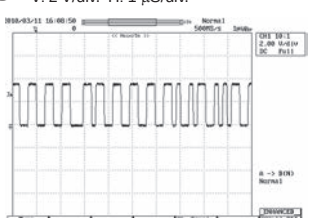
10 **CN1106_pin 18_TP**
V: 2 V/div. H: 2 µS/div.



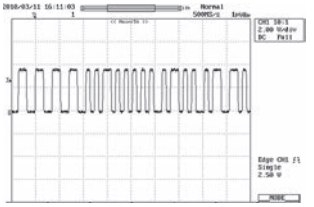
11 **CN1104_pin 8_TP**
V: 2 V/div. H: 1 µS/div.



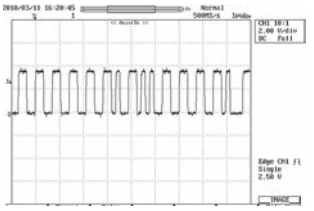
12 **CN1104_pin 9_TP**
V: 2 V/div. H: 1 µS/div.



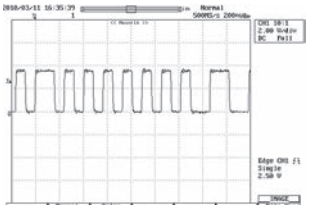
13 **CN1104_pin 10_TP**
V: 2 V/div. H: 1 µS/div.



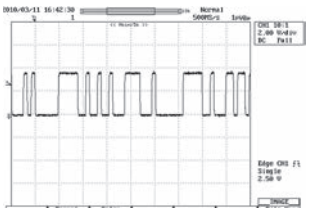
14 **CN1104_pin 11_TP**
V: 2 V/div. H: 1 µS/div.



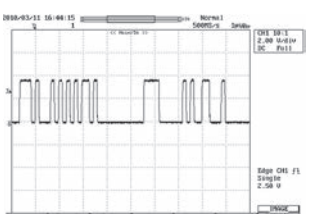
15 **CN1104_pin 12_TP**
V: 2 V/div. H: 200 nS/div.



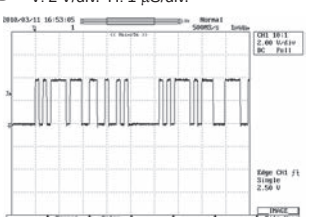
16 **CN1104_pin 17_TP**
V: 2 V/div. H: 1 µS/div.



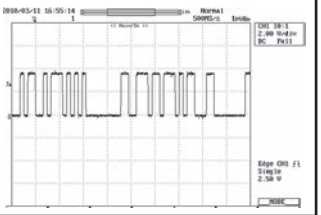
17 **CN1104_pin 20_TP**
V: 2 V/div. H: 1 µS/div.



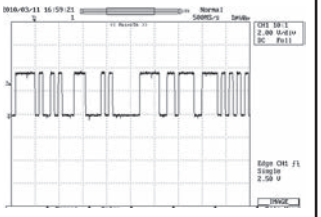
18 **CN1105_pin 16_TP**
V: 2 V/div. H: 1 µS/div.



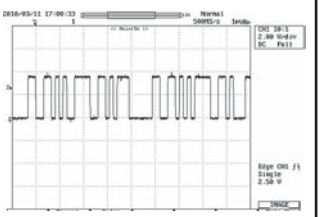
19 **CN1105_pin 17_TP**
V: 2 V/div. H: 1 µS/div.



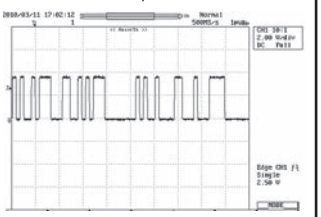
20 **CN1105_pin 18_TP**
V: 2 V/div. H: 1 µS/div.



21 **CN1105_pin 19_TP**
V: 2 V/div. H: 1 µS/div.

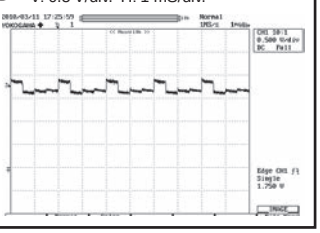


22 **CN1105_pin 20_TP**
V: 2 V/div. H: 1 µS/div.



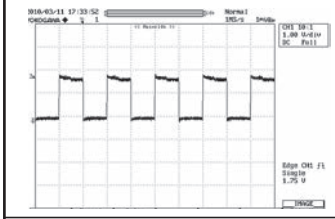
23 **R1106**
V: 2 V/div. H: 5 mS/div.

24 **R1138**
V: 0.5 V/div. H: 1 mS/div.

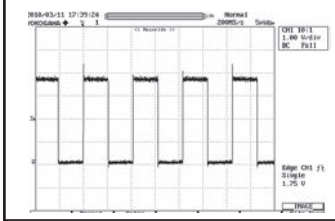


MAIN ASSY

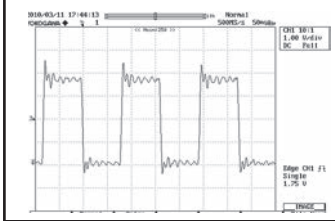
25 **R1139**
V: 1 V/div. H: 1 mS/div.



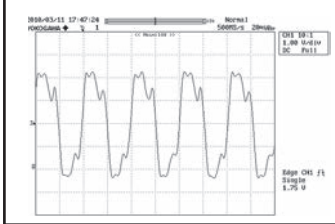
26 **R1203**
V: 1 V/div. H: 5 µS/div.



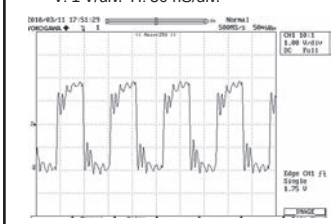
27 **R1207**
V: 1 V/div. H: 50 nS/div.



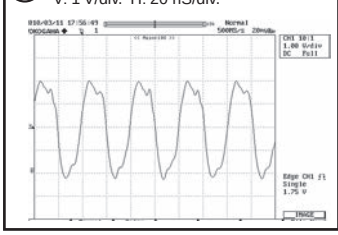
28 **R1211**
V: 1 V/div. H: 20 nS/div.



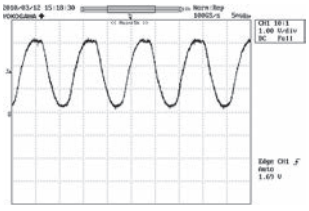
29 **R1215 - R1216**
V: 1 V/div. H: 50 nS/div.



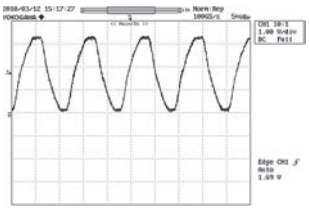
30 **R1145**
V: 1 V/div. H: 20 nS/div.



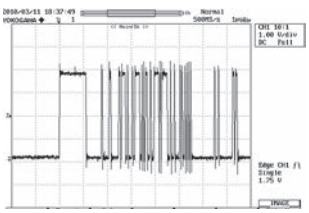
31 **R1592 (Thru hole)**
V: 1 V/div. H: 5 nS/div.



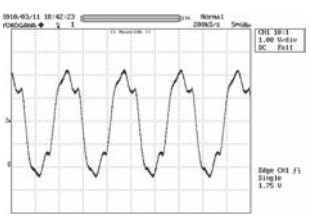
32 **R1417 (Thru hole)**
V: 1 V/div. H: 5 nS/div.



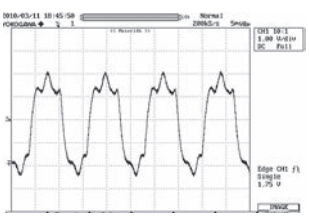
33 **CN1601_pin 22_TP**
V: 1 V/div. H: 1 µS/div.



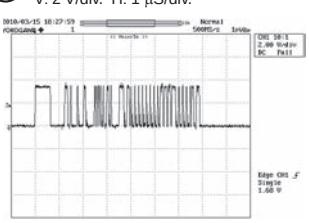
34 **CN1601_pin 20_TP**
V: 1 V/div. H: 5 mS/div.



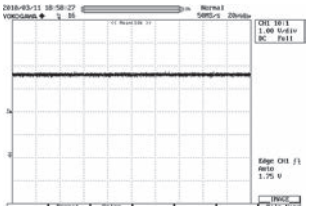
35 **CN1601_pin 18_TP**
V: 1 V/div. H: 5 mS/div.



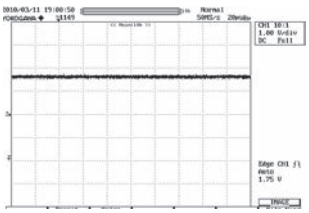
36 **CN1601_pin 13_TP**
V: 2 V/div. H: 1 µS/div.



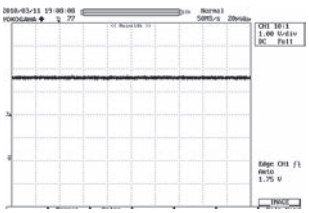
37 **R1232**
V: 1 V/div. H: 20 µS/div.



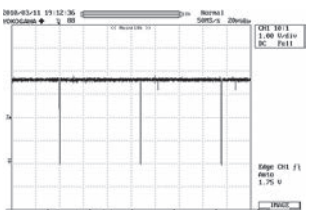
38 **R1213**
V: 1 V/div. H: 20 µS/div.



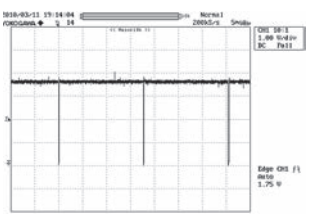
39 **R1217**
V: 1 V/div. H: 20 µS/div.



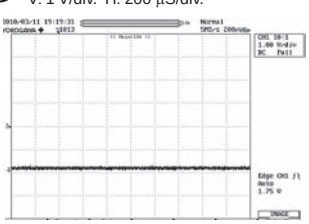
40 **CN1602_pin 2_TP**
V: 1 V/div. H: 20 µS/div.



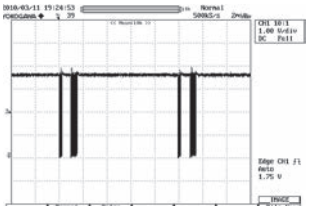
41 **CN1602_pin 1_TP**
V: 1 V/div. H: 5 mS/div.



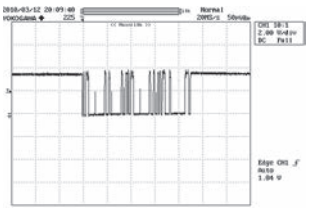
42 **CN1605_pin 12_TP**
V: 1 V/div. H: 200 µS/div.



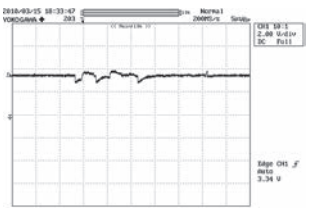
43 **CN1605_pin 11_TP**
V: 1 V/div. H: 2 mS/div.



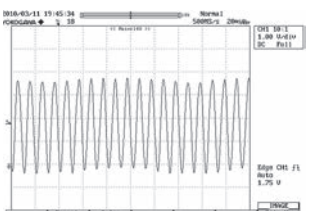
44 **CN1605_pin 10_TP**
V: 2 V/div. H: 50 µS/div.



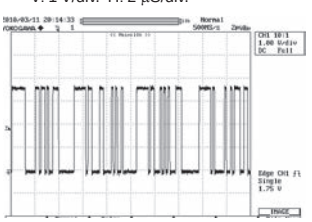
45 **CN1605_pin 9_TP**
V: 2 V/div. H: 5 µS/div.



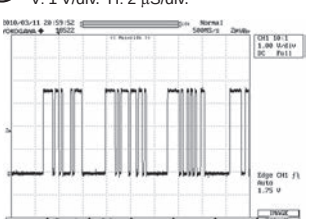
46 **R1632**
V: 1 V/div. H: 20 nS/div.



47 **R1861**
V: 1 V/div. H: 2 µS/div.

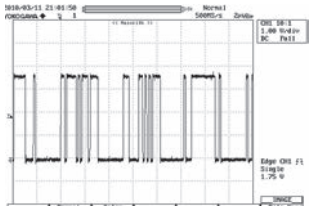


48 **R1867**
V: 1 V/div. H: 2 µS/div.

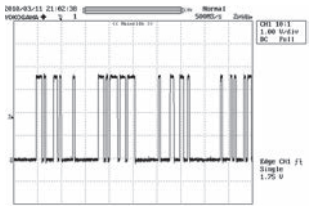


MAIN ASSY

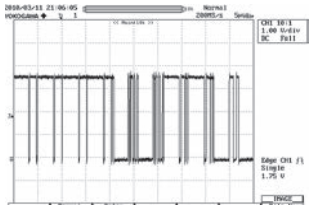
49 **R1873**
V: 1 V/div. H: 2 µS/div.



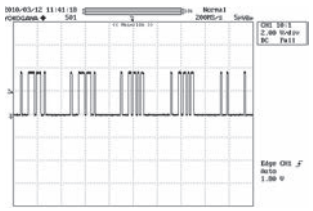
50 **R1879**
V: 1 V/div. H: 2 µS/div.



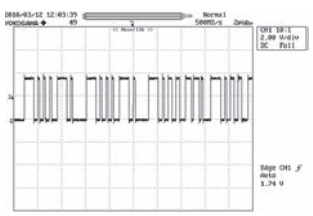
51 **IC1907 - pin 9**
V: 1 V/div. H: 5 µS/div.



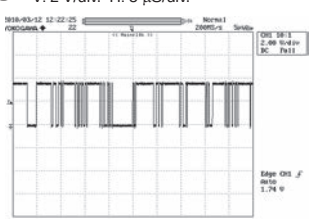
52 **IC1911-pin 9 - R1956(R1956 side)**
V: 2 V/div. H: 5 µS/div.



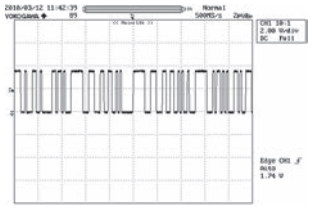
53 **IC1910 - pin 9 (Thru hole)**
V: 2 V/div. H: 2 µS/div.



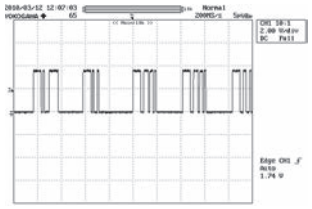
54 **IC1908 - pin 9**
V: 2 V/div. H: 5 µS/div.



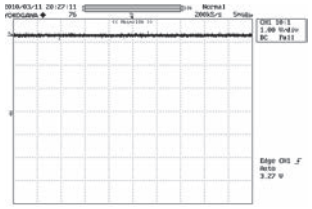
55 **R1971**
V: 2 V/div. H: 2 µS/div.



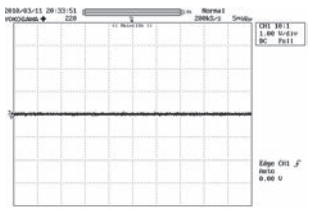
56 **R1952**
V: 2 V/div. H: 5 µS/div.



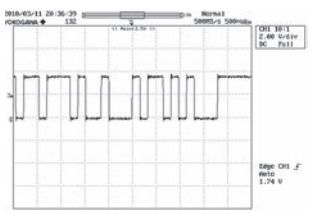
57 **CN1001_pin 6 (Thru hole)**
V: 1 V/div. H: 5 mS/div.



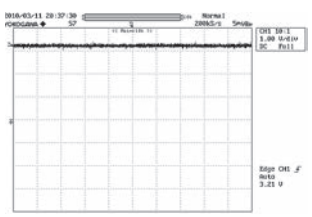
58 **CN1002_pin 2 (Thru hole)**
V: 1 V/div. H: 5 mS/div.



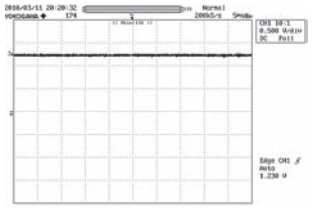
59 **CN1002_pin 11 (Thru hole)**
V: 2 V/div. H: 500 nS/div.



60 **CN1002_pin 12 (Thru hole)**
V: 1 V/div. H: 5 mS/div.



61 **R1045 - R2081 (Thru hole)**
V: 0.5 V/div. H: 5 mS/div.



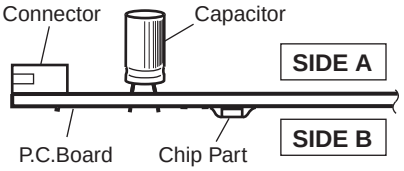
11. PCB CONNECTION DIAGRAM

A

NOTE FOR PCB DIAGRAMS :

1. 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.

2. View point of PCB diagrams.



B

C

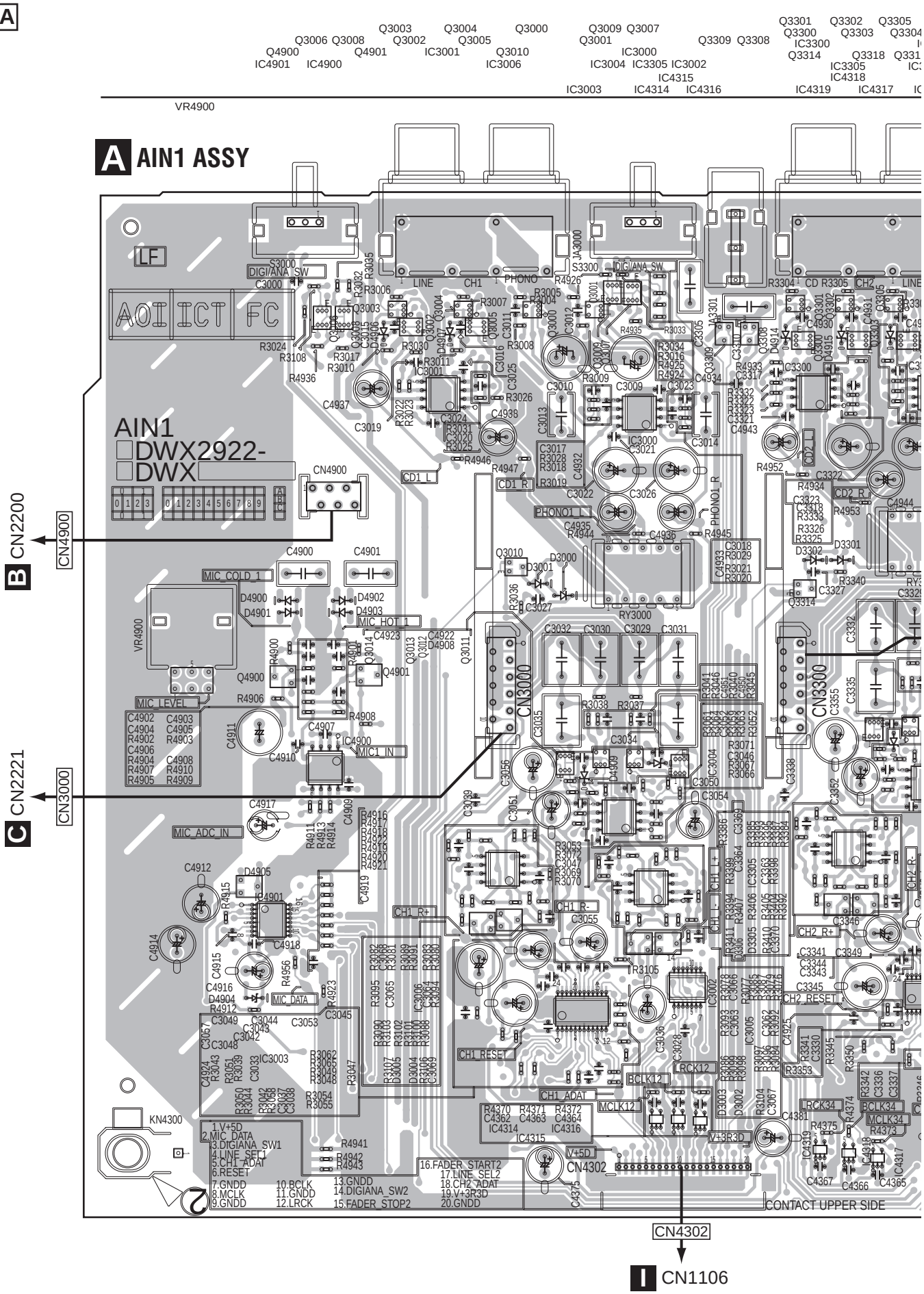
D

E

F

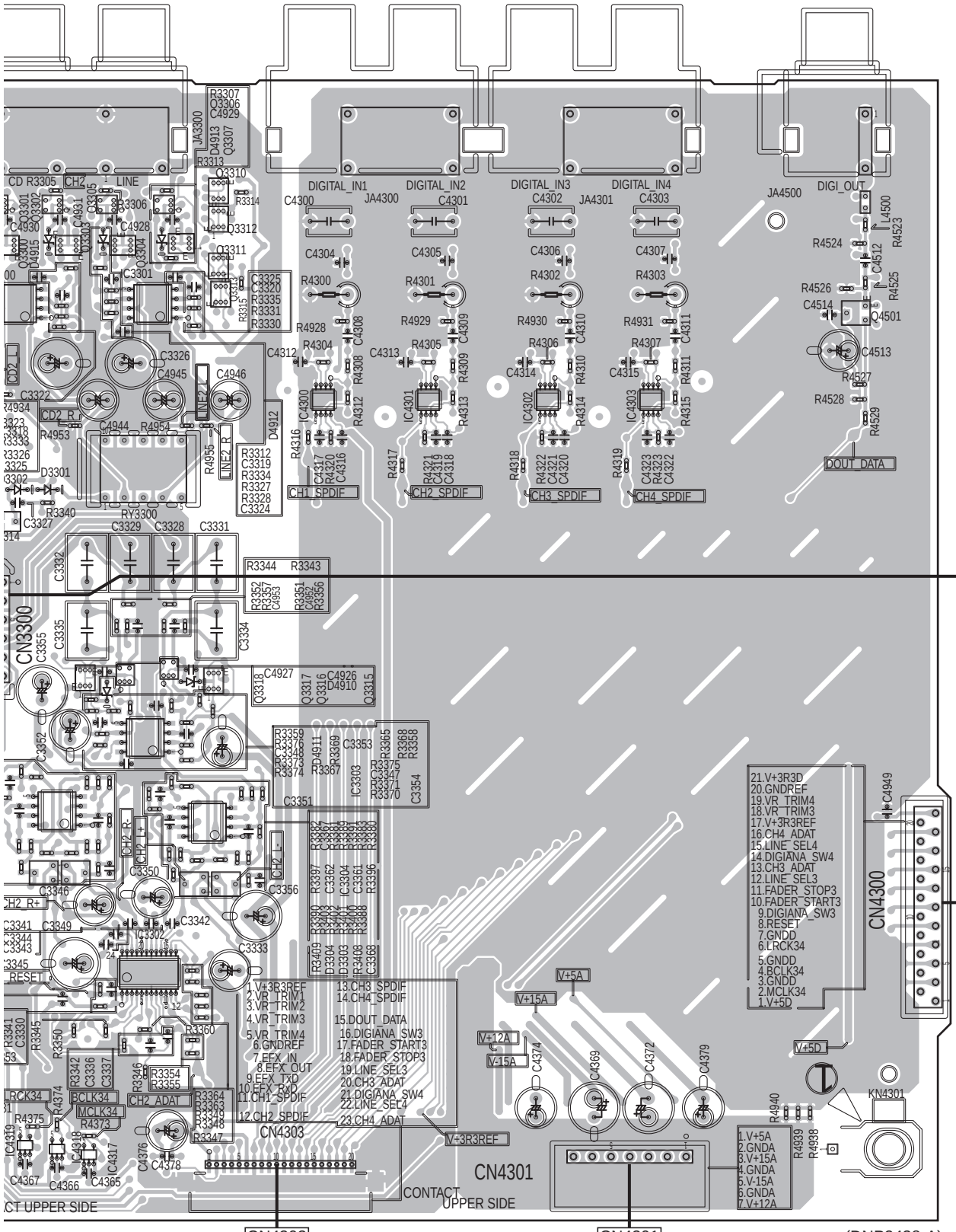
11.1 AIN1 ASSY

SIDE A



SIDE A

Q3302 Q3305 Q3306
Q3303 Q3304 Q3307
IC3301 Q3310-Q3313
Q3318 Q3317 Q3316 Q3315 IC4300 IC4301 IC4302 IC4303 Q4501
IC3305 IC3303 IC3304
IC4318
IC4319 IC4317 IC3302



CN3300 → D CN2241

CN4300 → G CN4200

CN4303 → I CN1104

CN4301 → J CN104

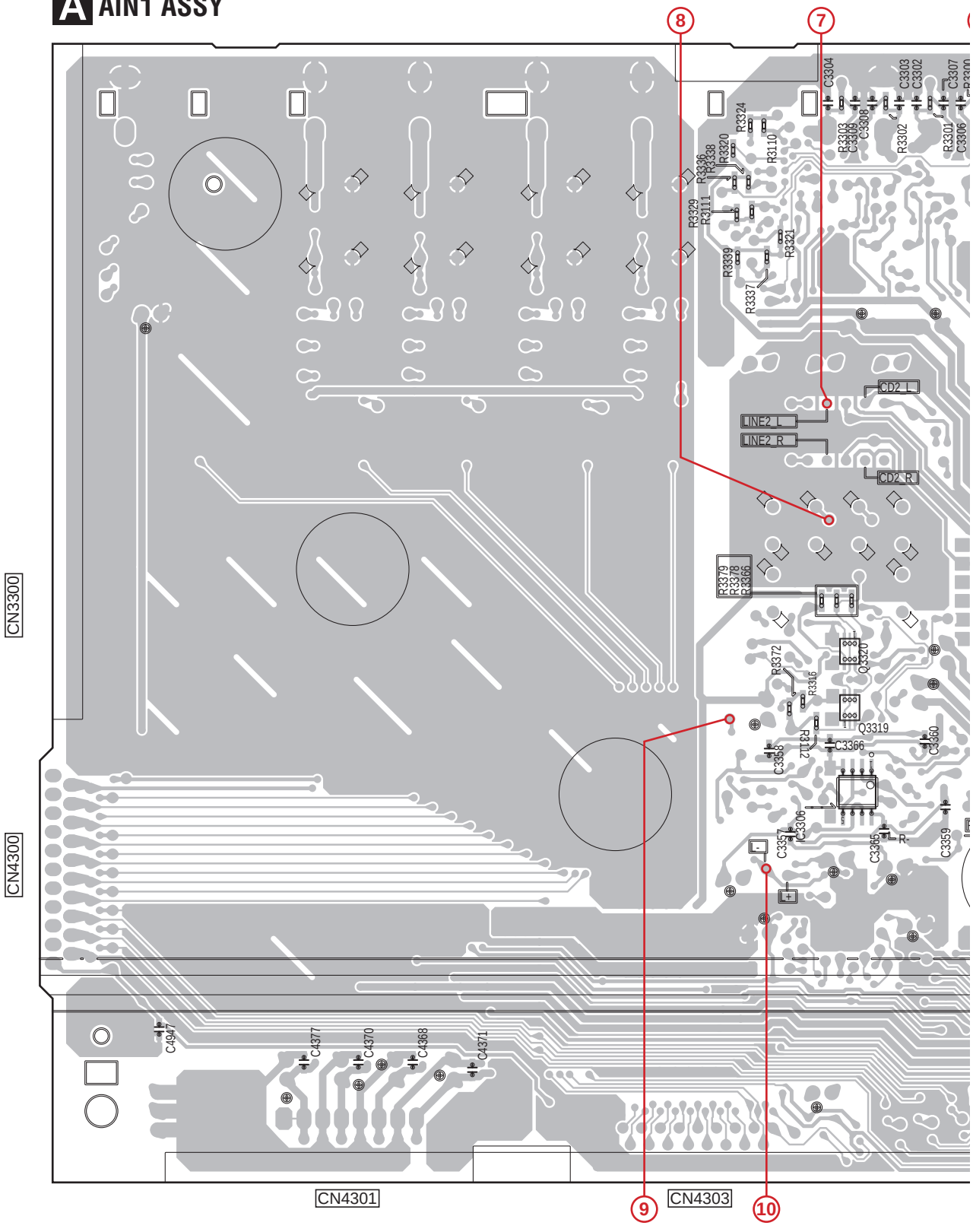
A

DJM-2000NXS

SIDE B

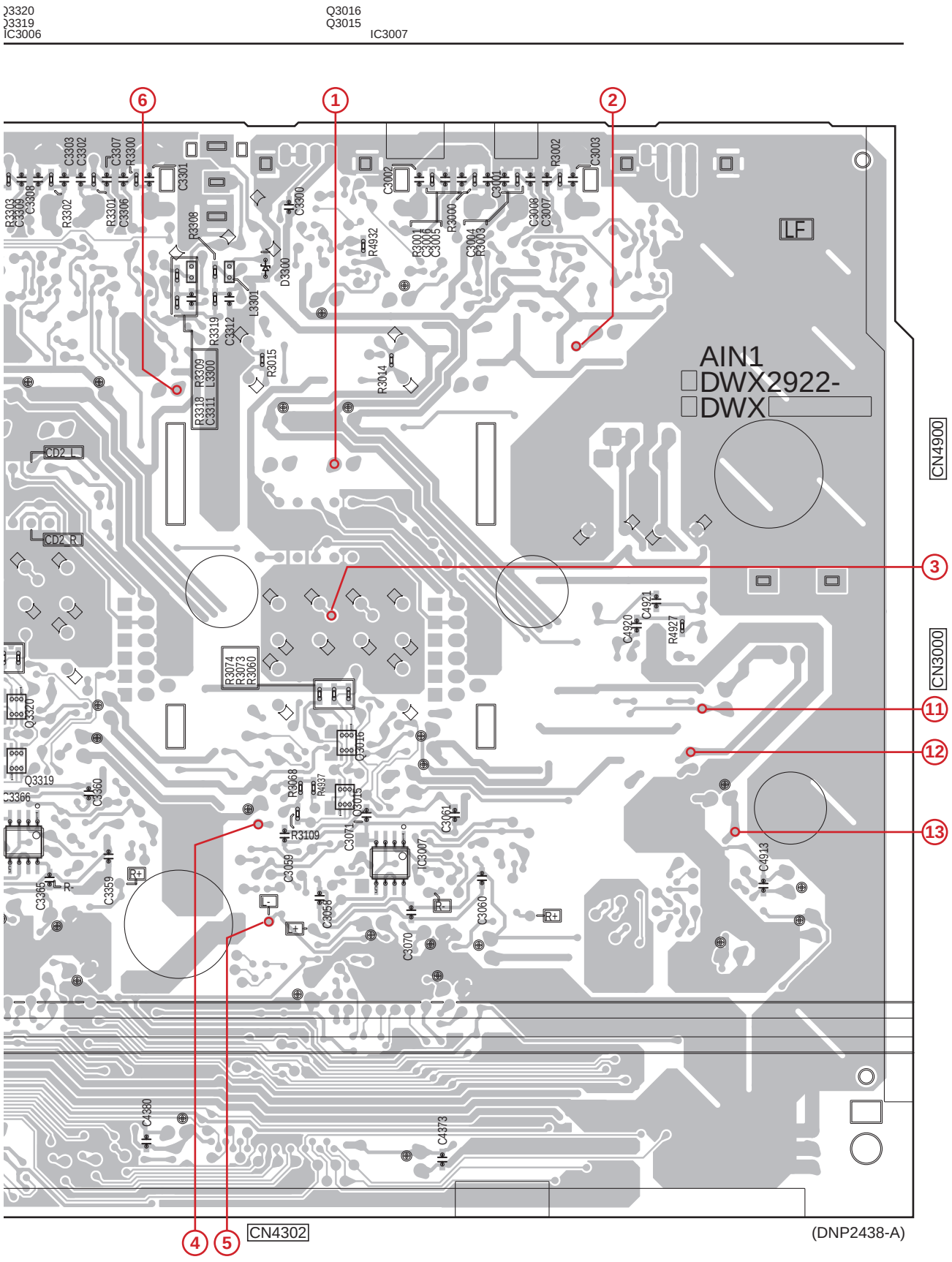
Q3320
Q3319
IC3006

A AIN1 ASSY



注意: ◯で囲まれた数字は各測定ポイントの番号を示します。
NOTE: The encircled numbers denote measuring point.

SIDE B

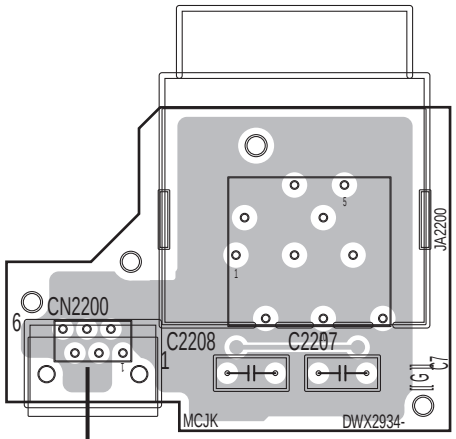


11.2 MCJK, TRIM1 - TRIM4 ASSYS

SIDE A

SIDE A

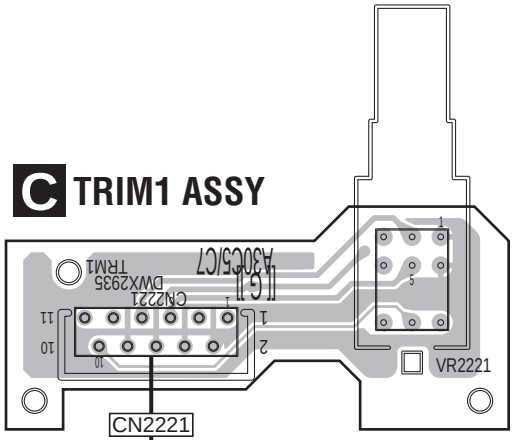
B MCJK ASSY



(DNP2661-B)

A CN4900

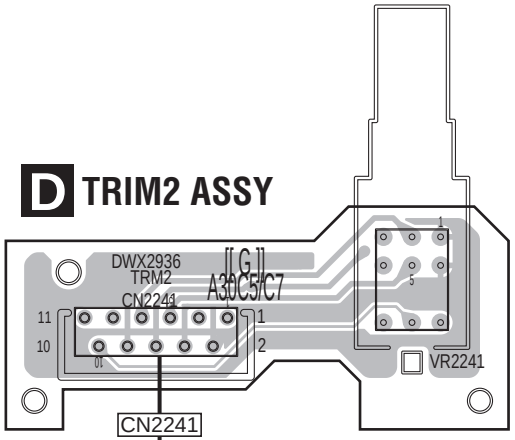
C TRIM1 ASSY



(DNP2438-A)

A CN3000

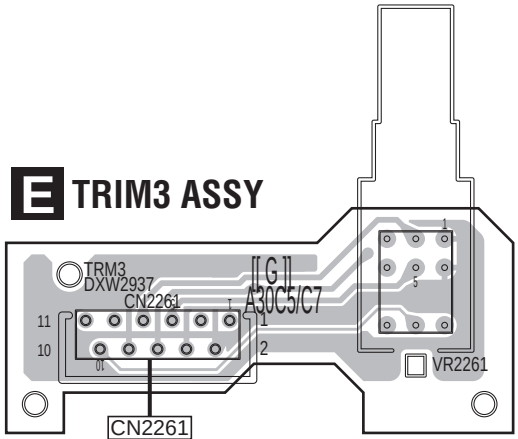
D TRIM2 ASSY



(DNP2438-A)

A CN3300

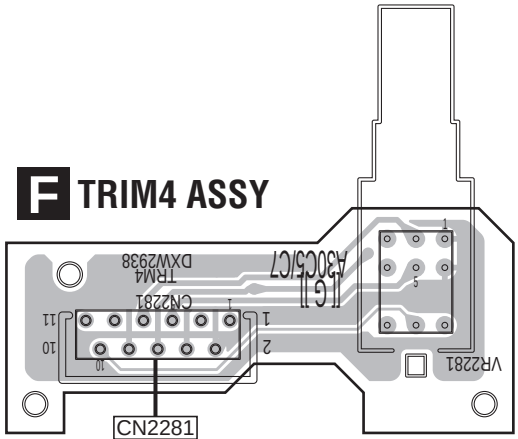
E TRIM3 ASSY



(DNP2606-A)

G CN3600

F TRIM4 ASSY



(DNP2606-A)

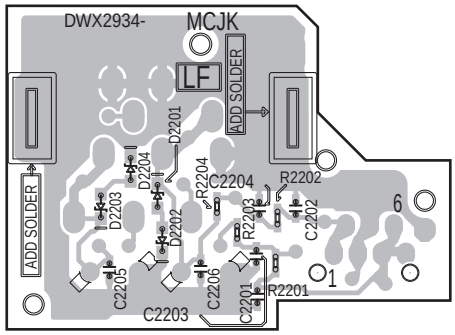
G CN3900

B C D E F

SIDE B

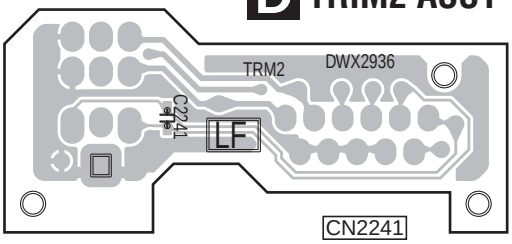
SIDE B

B MCJK ASSY



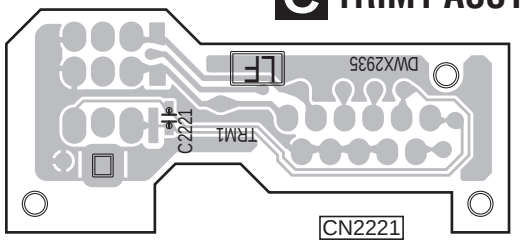
(DNP2661-B) CN2200

D TRIM2 ASSY



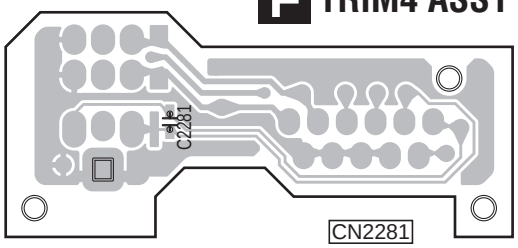
(DNP2438-A)

C TRIM1 ASSY



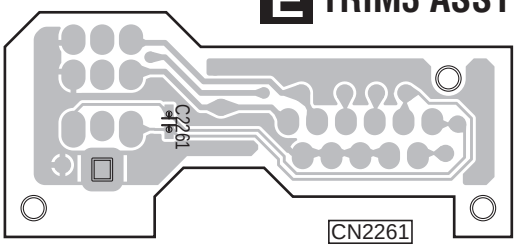
(DNP2438-A)

F TRIM4 ASSY



(DNP2606-A)

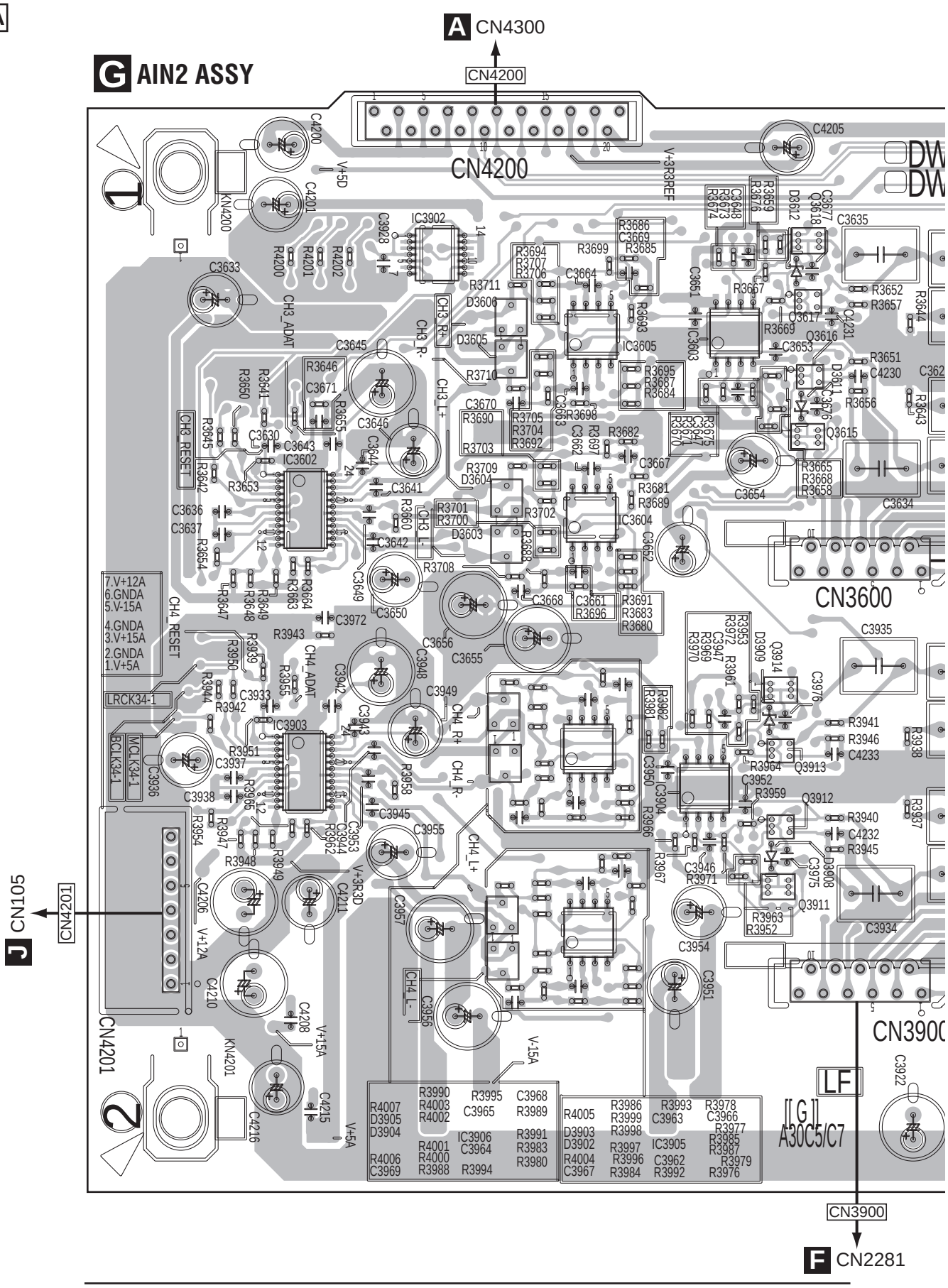
E TRIM3 ASSY



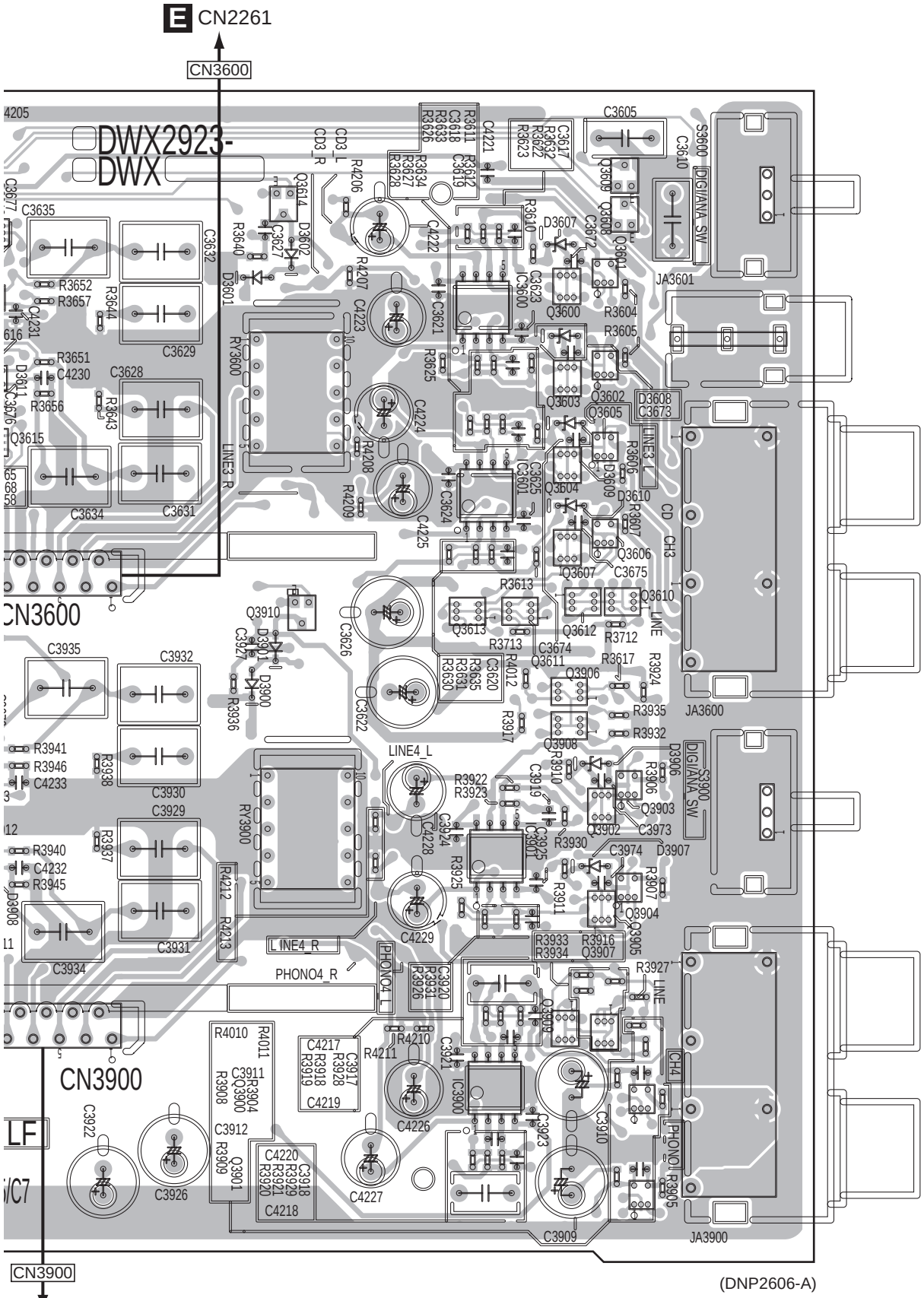
(DNP2606-A)

11.3 AIN2 ASSY

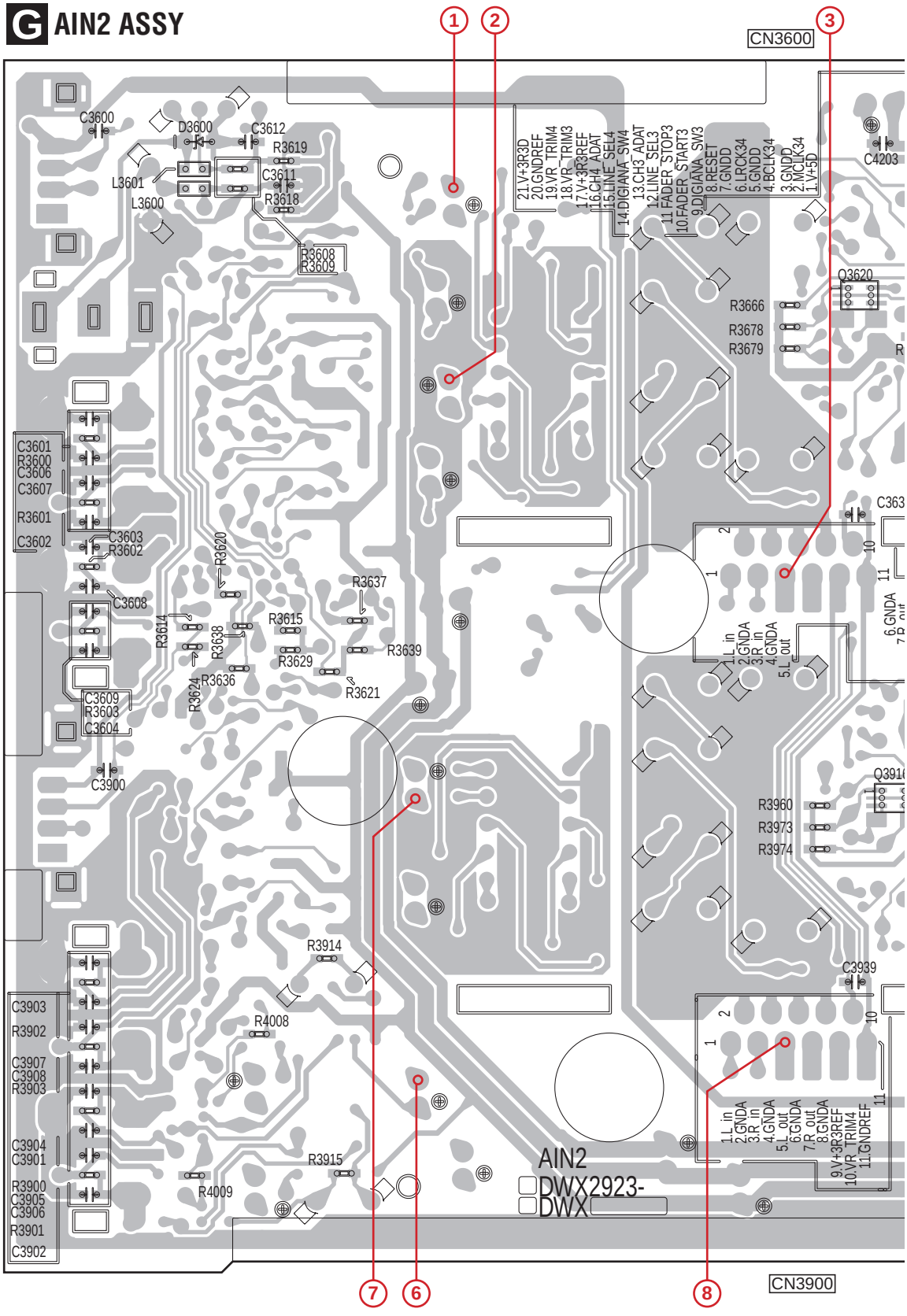
SIDE A



SIDE A


E CN2261
CN3600
DWX2923-
DWX
CN3600
CN3900
CN3900
CN2281
(DNP2606-A)
JA3601
JA3600
JA3900
S3600
DIGI/ANA_SW
S3900
DIGI/ANA_SW
LINE3_L
LINE3_R
LINE4_L
LINE4_R
PHONO4_R
PHONO4_L
CD
CH3
LINE
CH4
PHONO
RV3900
RY3900
IC3600
IC3601
IC3901
IC3900
Q3614
Q3910
Q3600-3609
Q3613 Q3611
Q3612 Q3610
Q3900-3909

G AIN2 ASSY

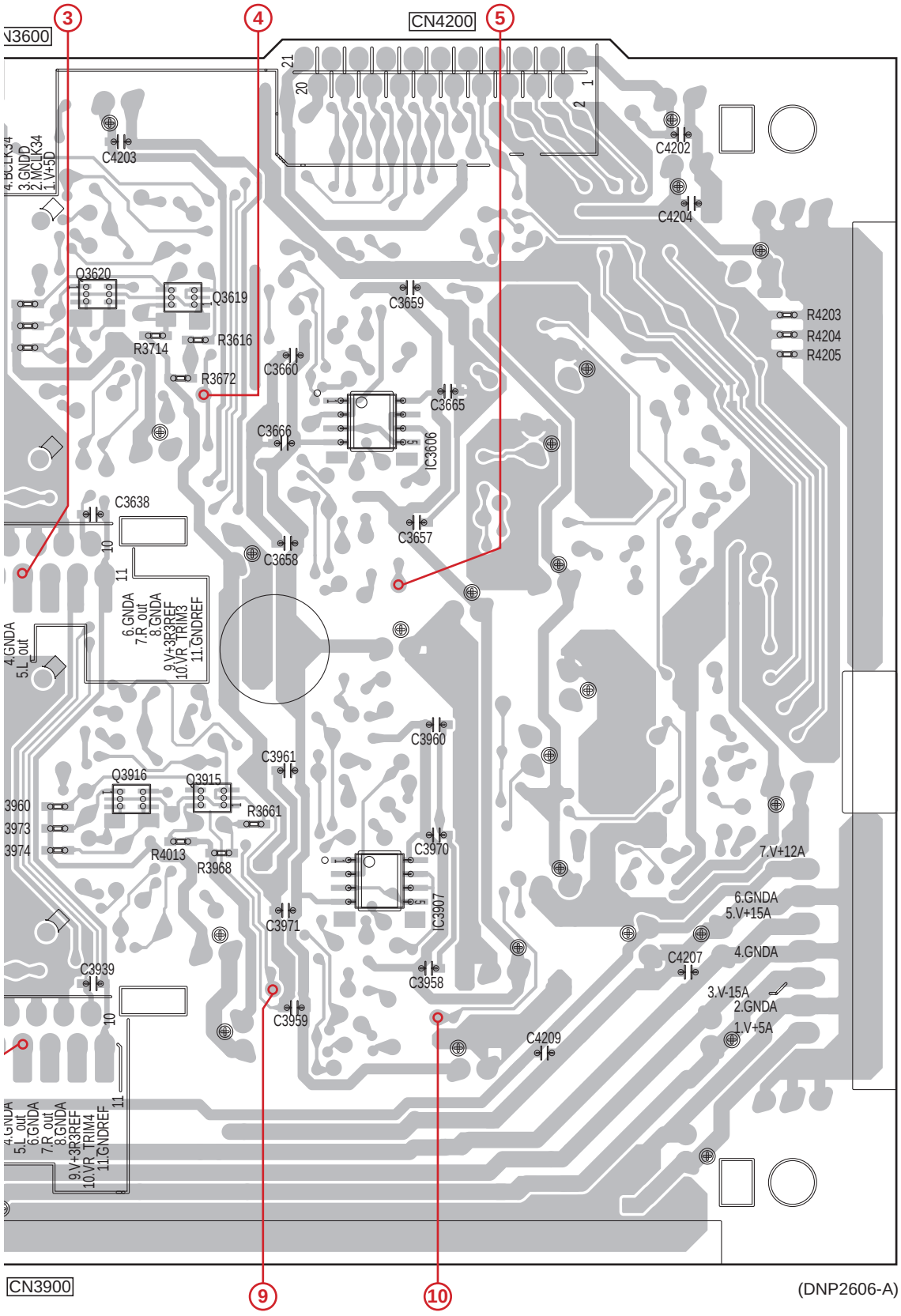


Q3620

Q391

注意: ◯で囲まれた数字は各測定ポイントの番号を示します。
NOTE: The encircled numbers denote measuring point.

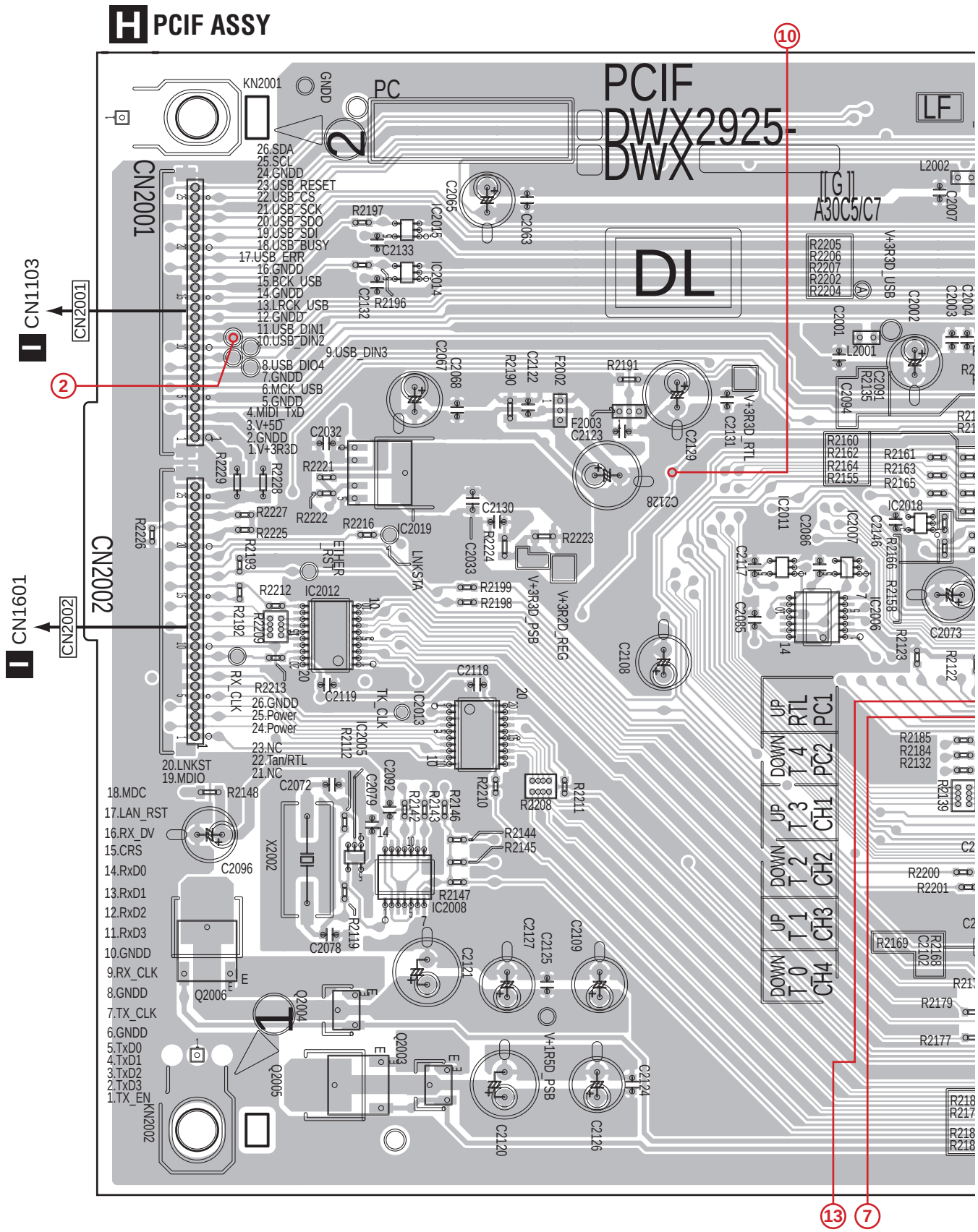
SIDE B



Q3620 Q3619 IC3606
Q3916 Q3915 IC3907

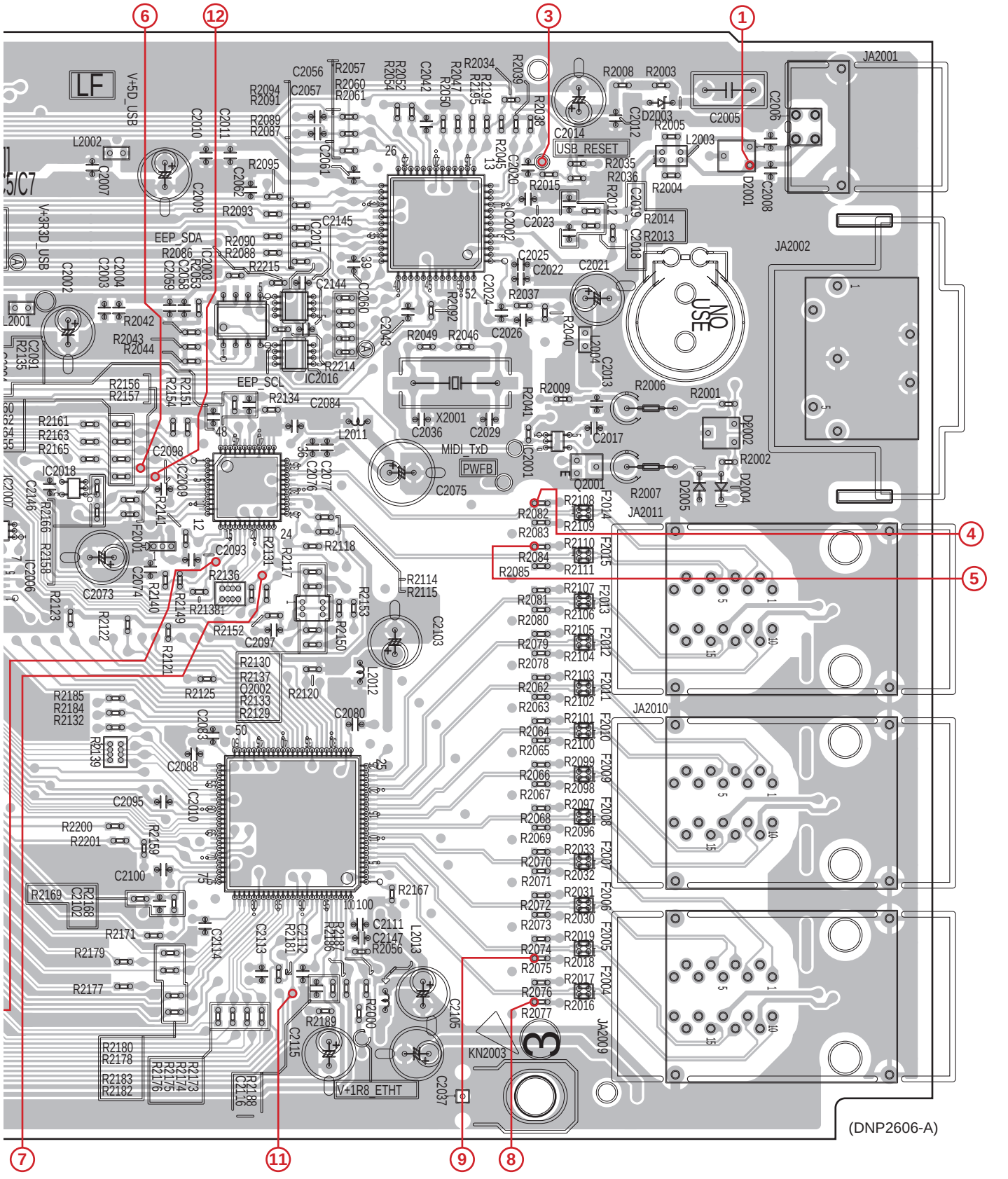
11.4 PCIF ASSY

SIDE A



注意: ◯で囲まれた数字は各測定ポイントの番号を示します。
NOTE: The encircled numbers denote measuring point.

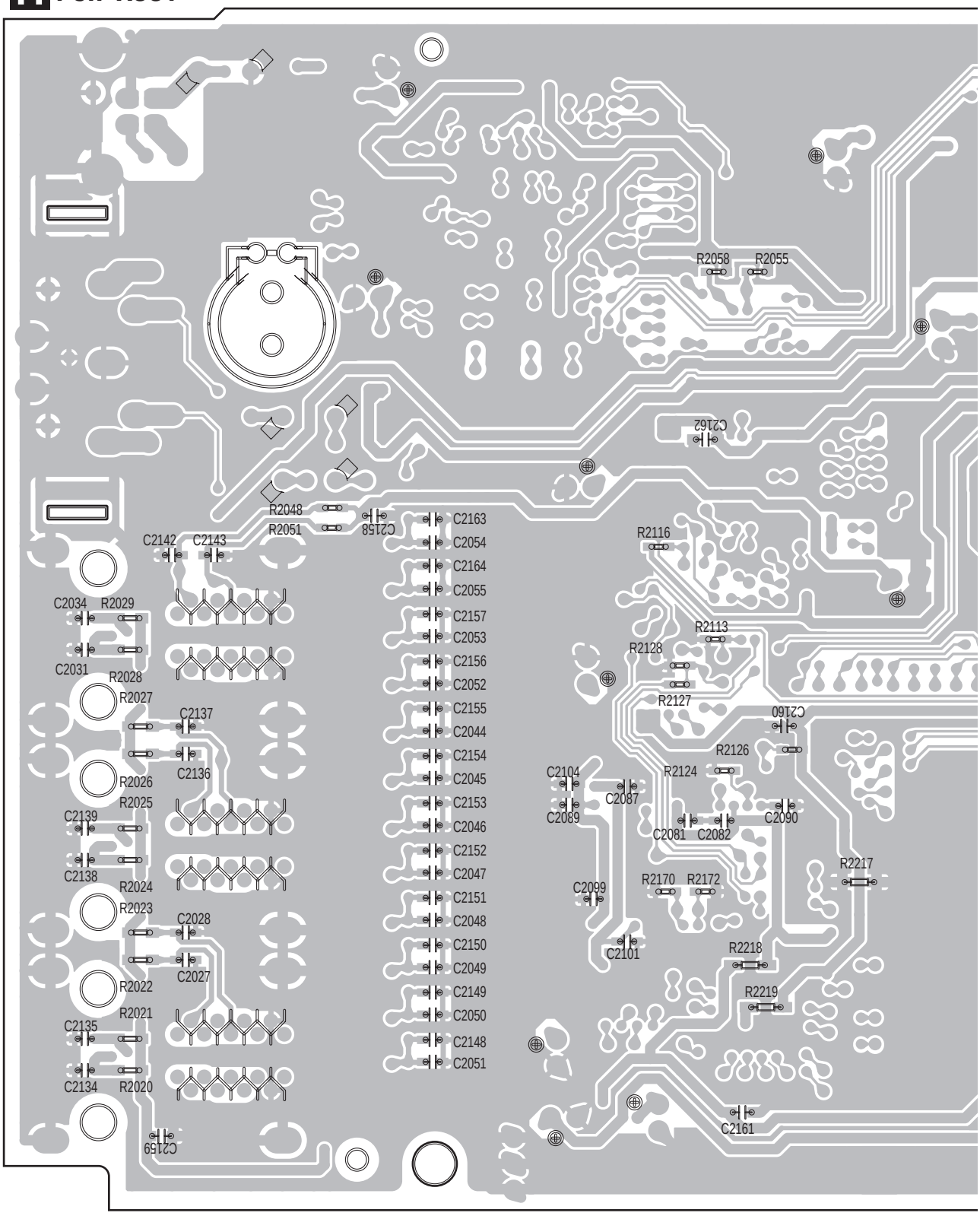
SIDE A



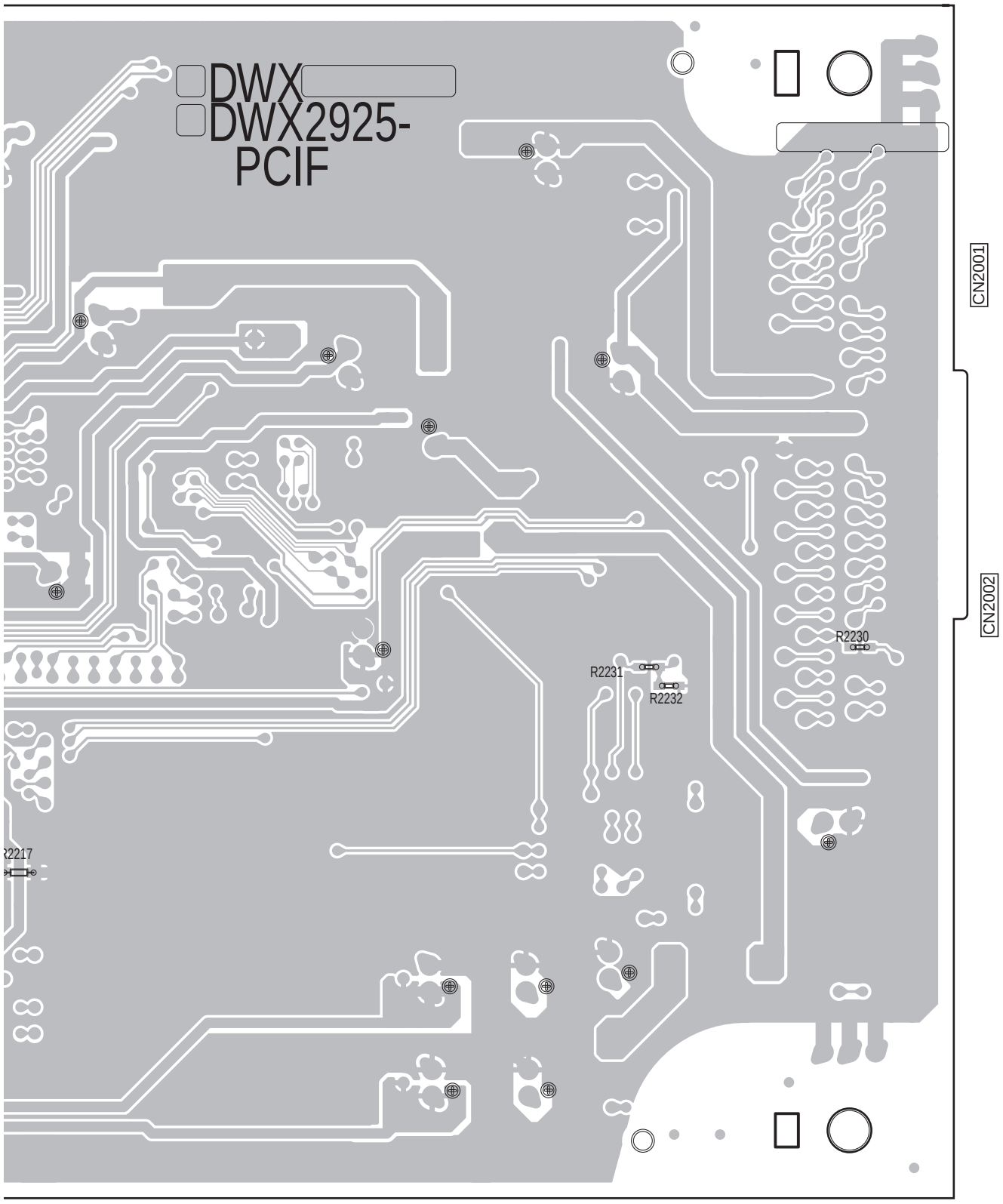
007 IC2018 IC2003 IC2009 IC2017 IC2016 Q2002 IC2010 IC2002 IC2001 Q2001

SIDE B

H PCIF ASSY



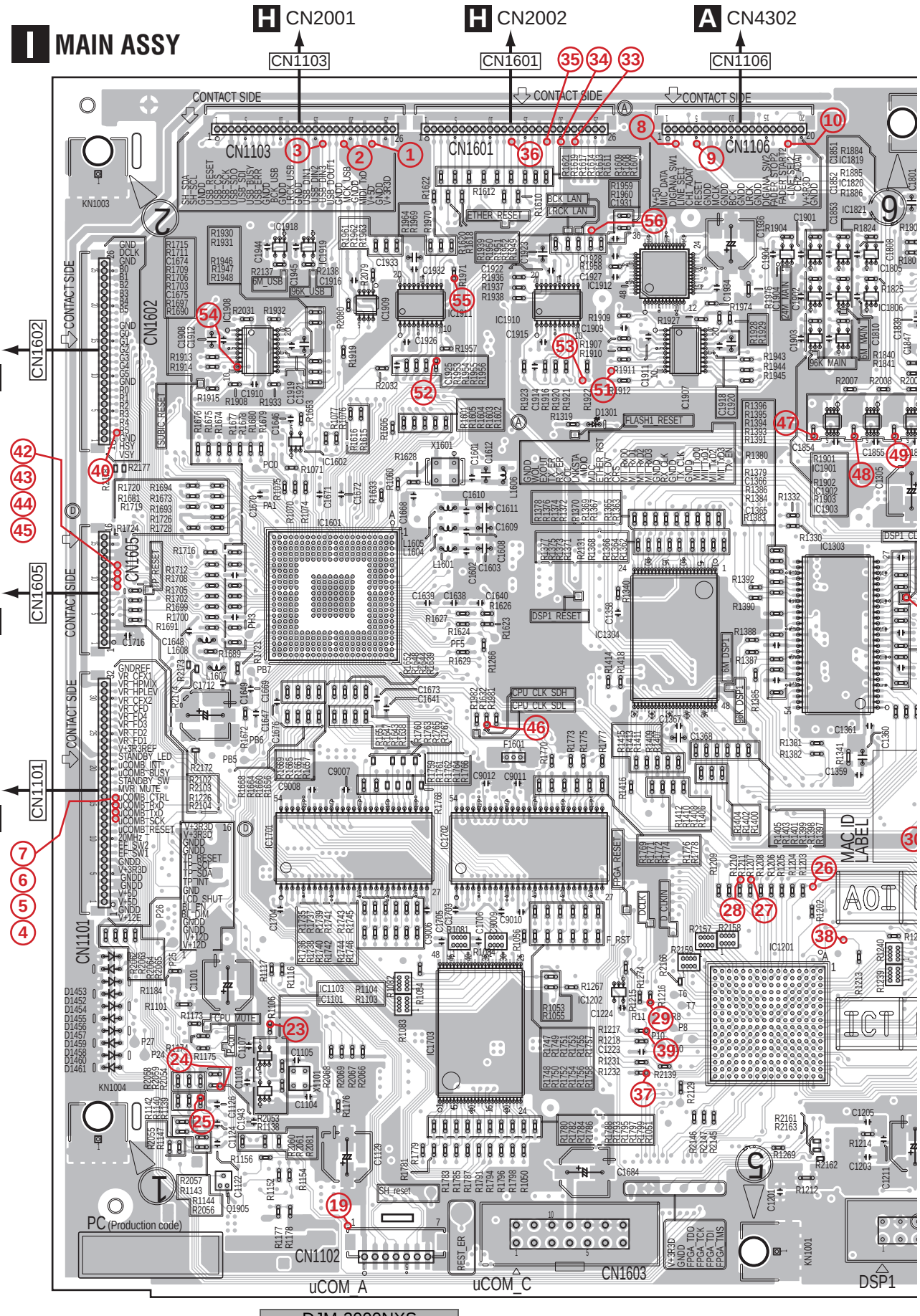
SIDE B



(DNP2606-A)

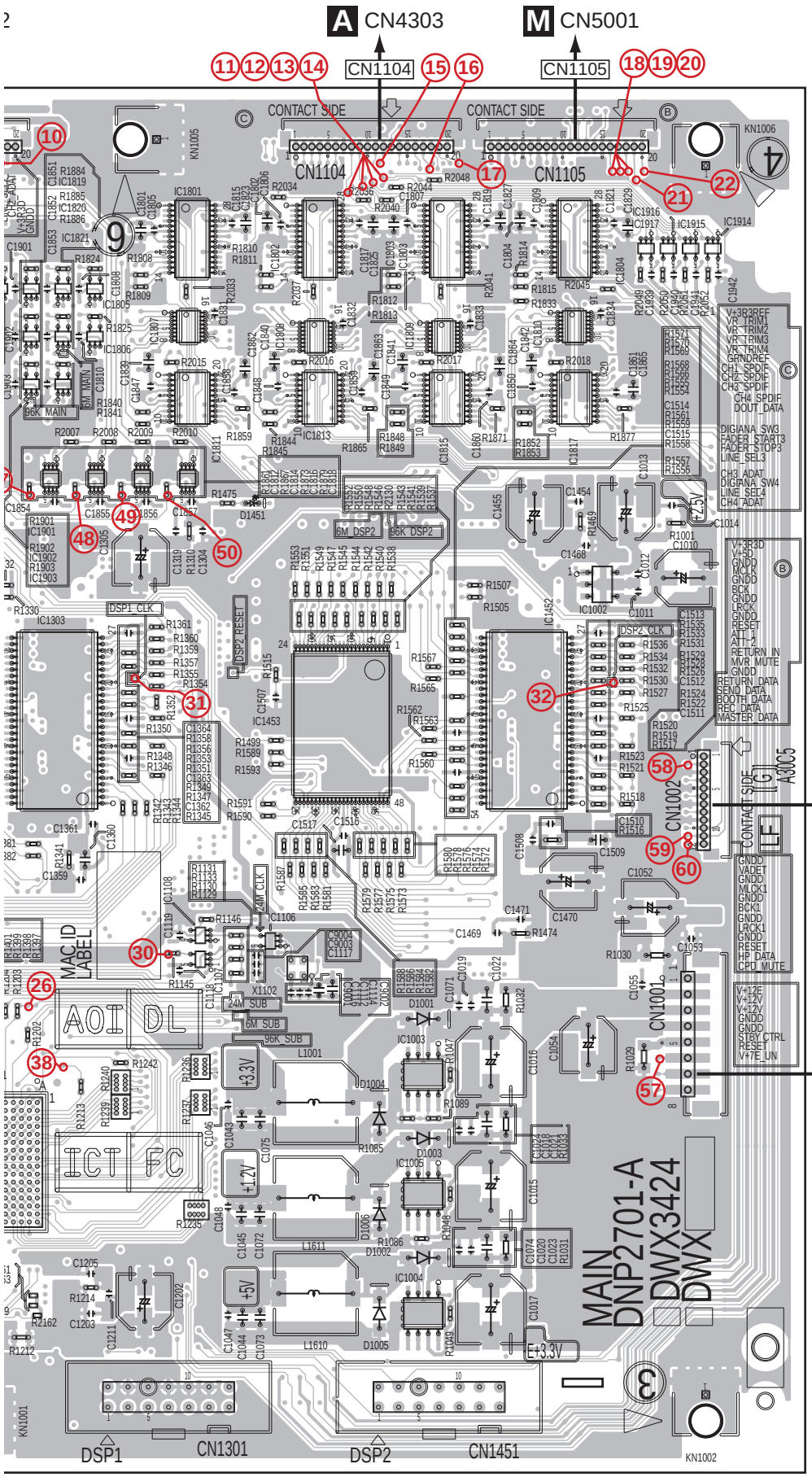
11.5 MAIN ASSY

SIDE A



注意: ◯で囲まれた数字は各測定ポイントの番号を示します。
NOTE: The encircled numbers denote measuring point.

SIDE A

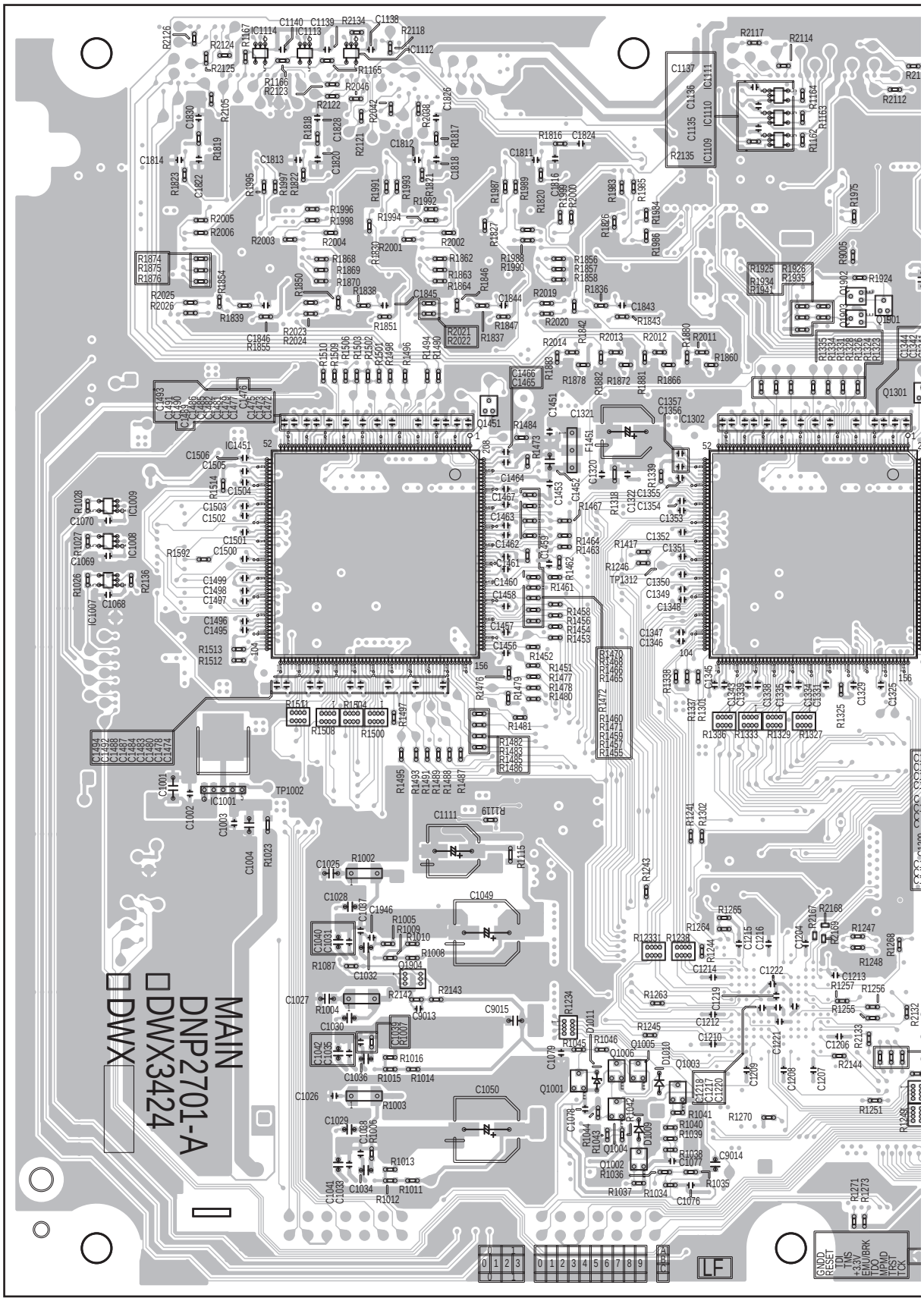


IC1801 IC1802 IC1803 IC1914 IC1804 IC1917 IC1918 IC1919 IC1901 IC1805 IC1912 IC1904 IC1807 IC1808 IC1809 IC1909 IC1910 IC1819 IC1806 IC1810 IC1911 IC1821 IC1813 IC1908 IC1907 IC1811 IC1815 IC1817 IC1812 IC1814 IC1816 IC1818 IC1602 IC1002 IC1601 IC1303 IC1453 IC1452 IC1304 IC1108 IC1106 IC1701 IC1107 IC1104 IC1702 IC1003 IC1703 IC1202 IC1201 IC1005 IC1103 IC1101 IC1004 Q1905

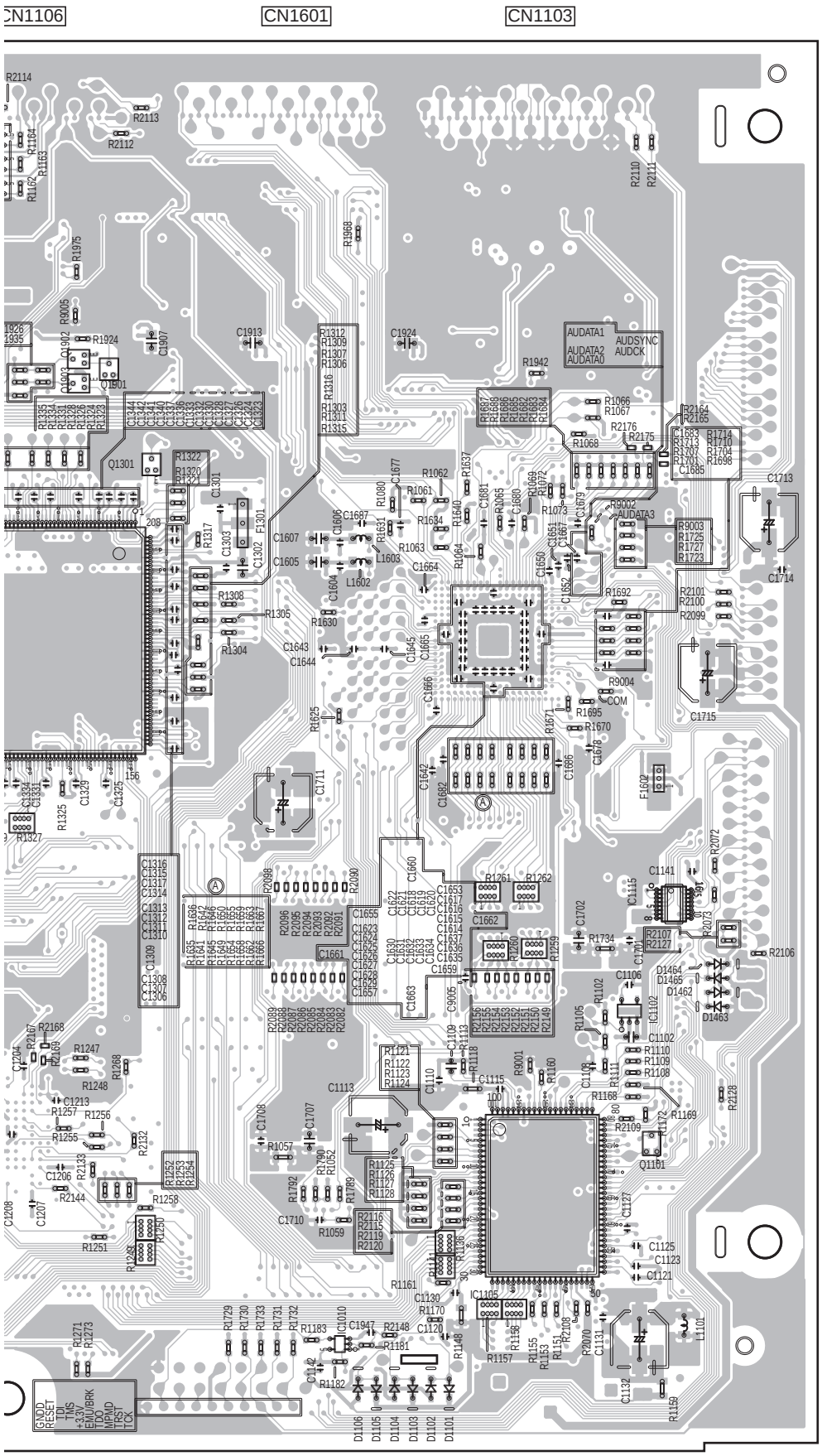
(DNP2701-A)

SIDE B

MAIN ASSY



SIDE B

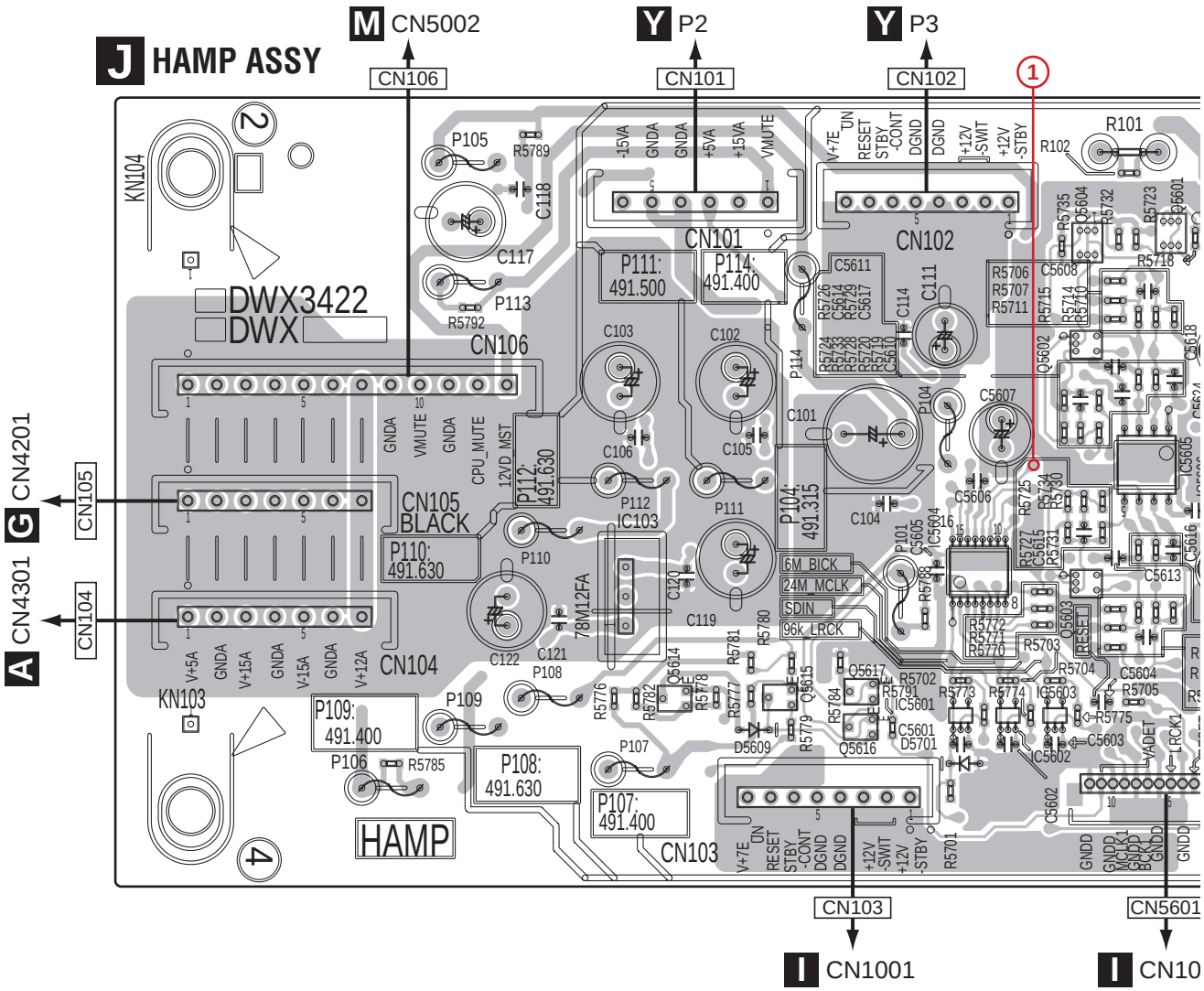


IC1112
IC1113
IC1114
IC1111
IC1110
IC1109
Q1902
Q1901
Q1903
Q1301
IC1009
IC1008 IC1451
IC1302
IC1007
IC1001
IC1115
IC1102
Q1904
Q1101
IC1105
Q1006
Q1005
Q1001 Q1003
Q1004
Q1002
IC1010

(DNP2701-A)

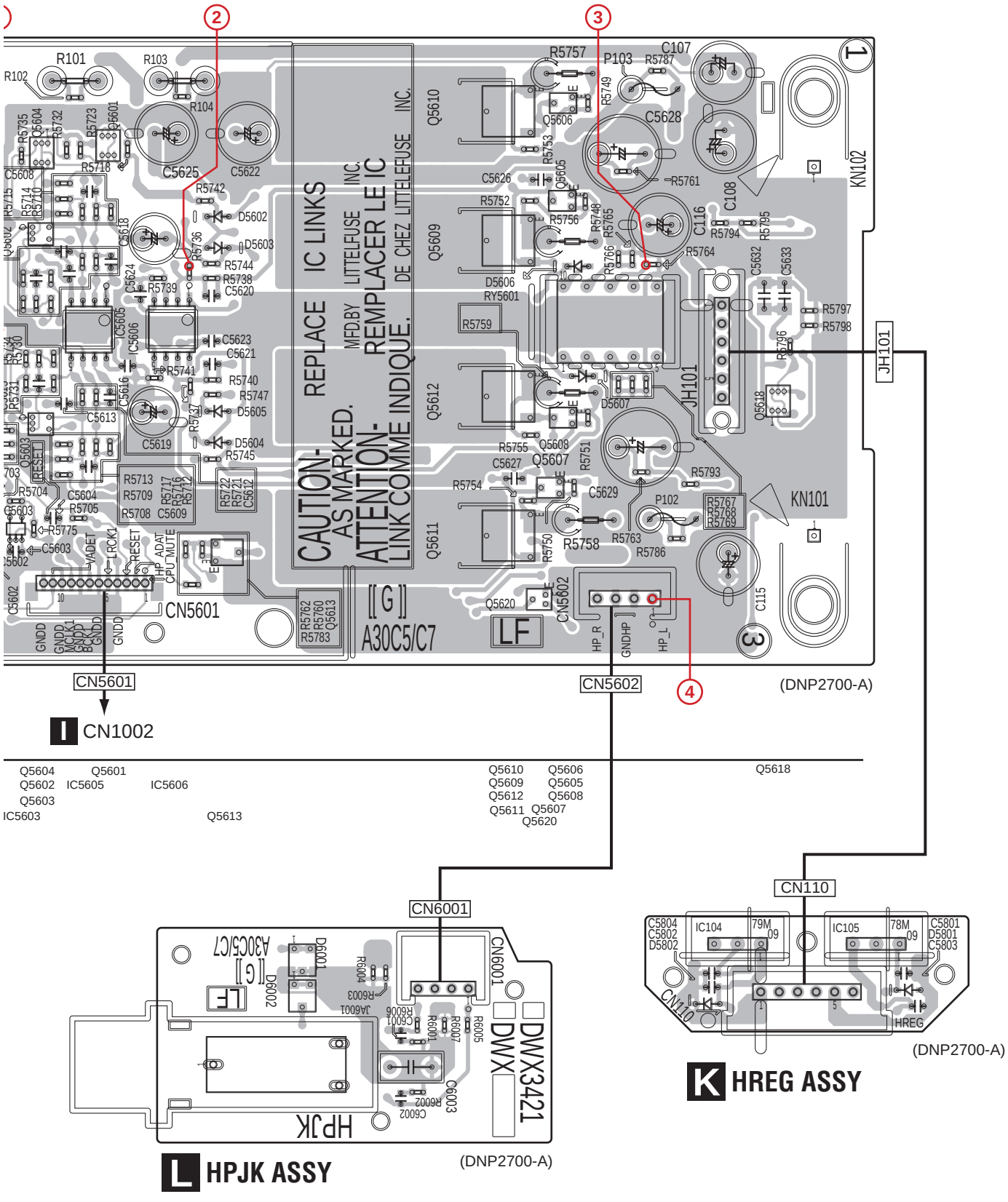
11.6 HAMP, HREG and HPJK ASSYS

SIDE A



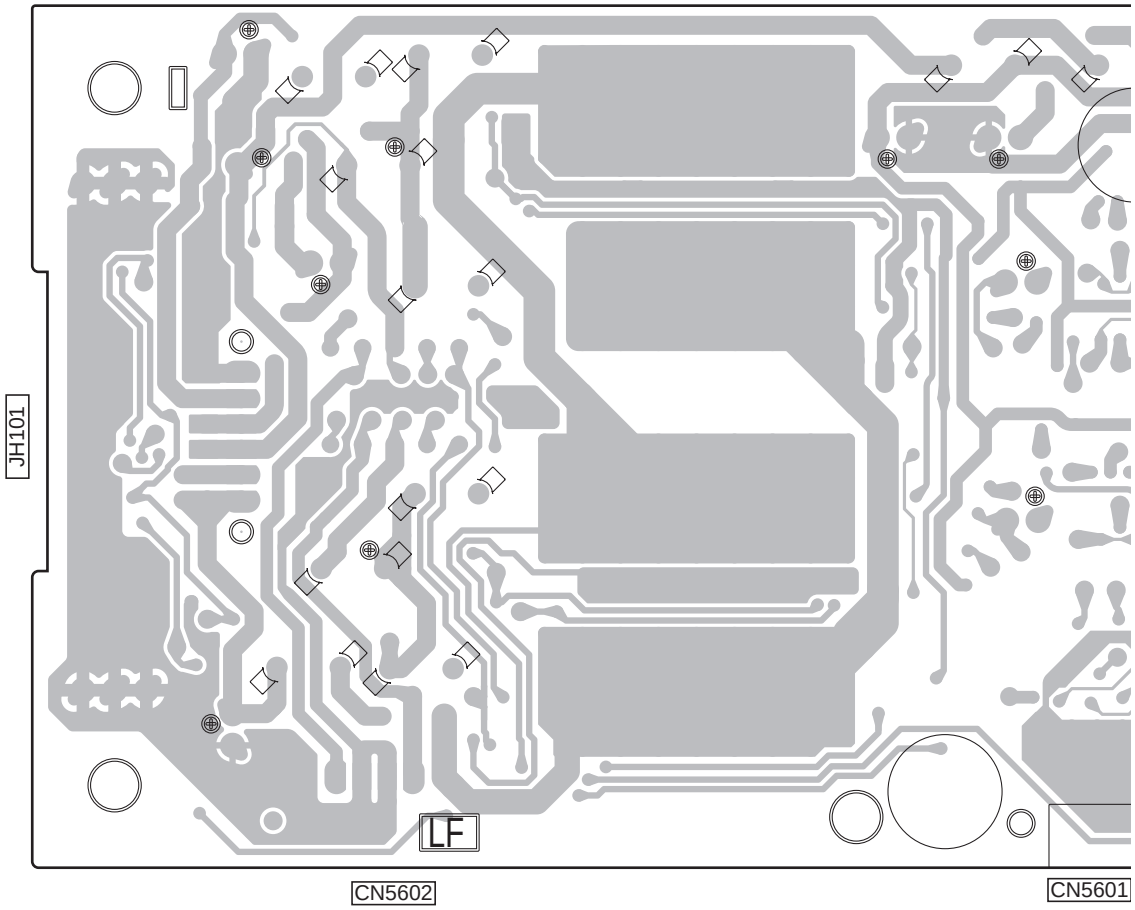
注意: ◯で囲まれた数字は各測定ポイントの番号を示します。
NOTE: The encircled numbers denote measuring point.

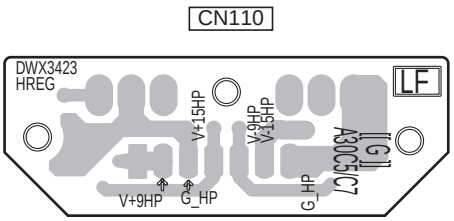
SIDE A



SIDE B

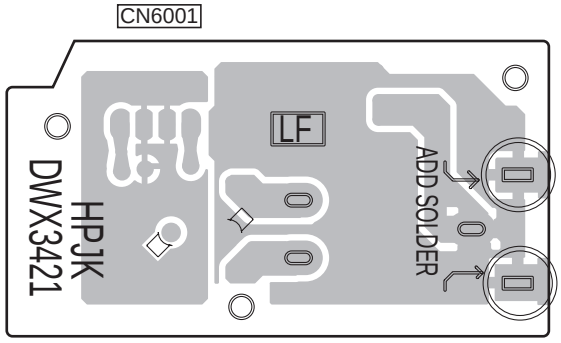
J HAMP ASSY





(DNP2700-A)

K HREG ASSY

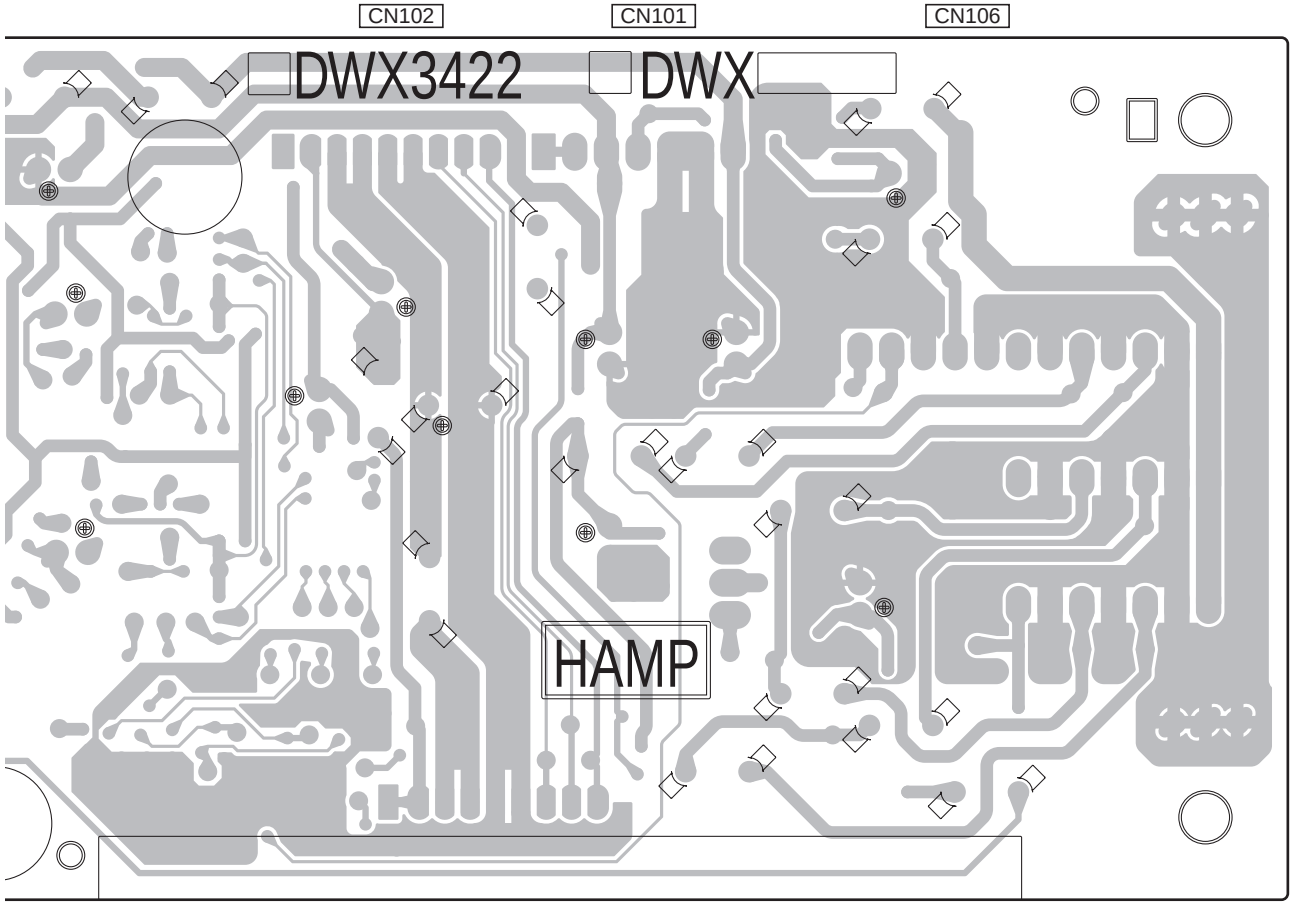


(DNP2700-A)

L HPJK ASSY

J K L

SIDE B



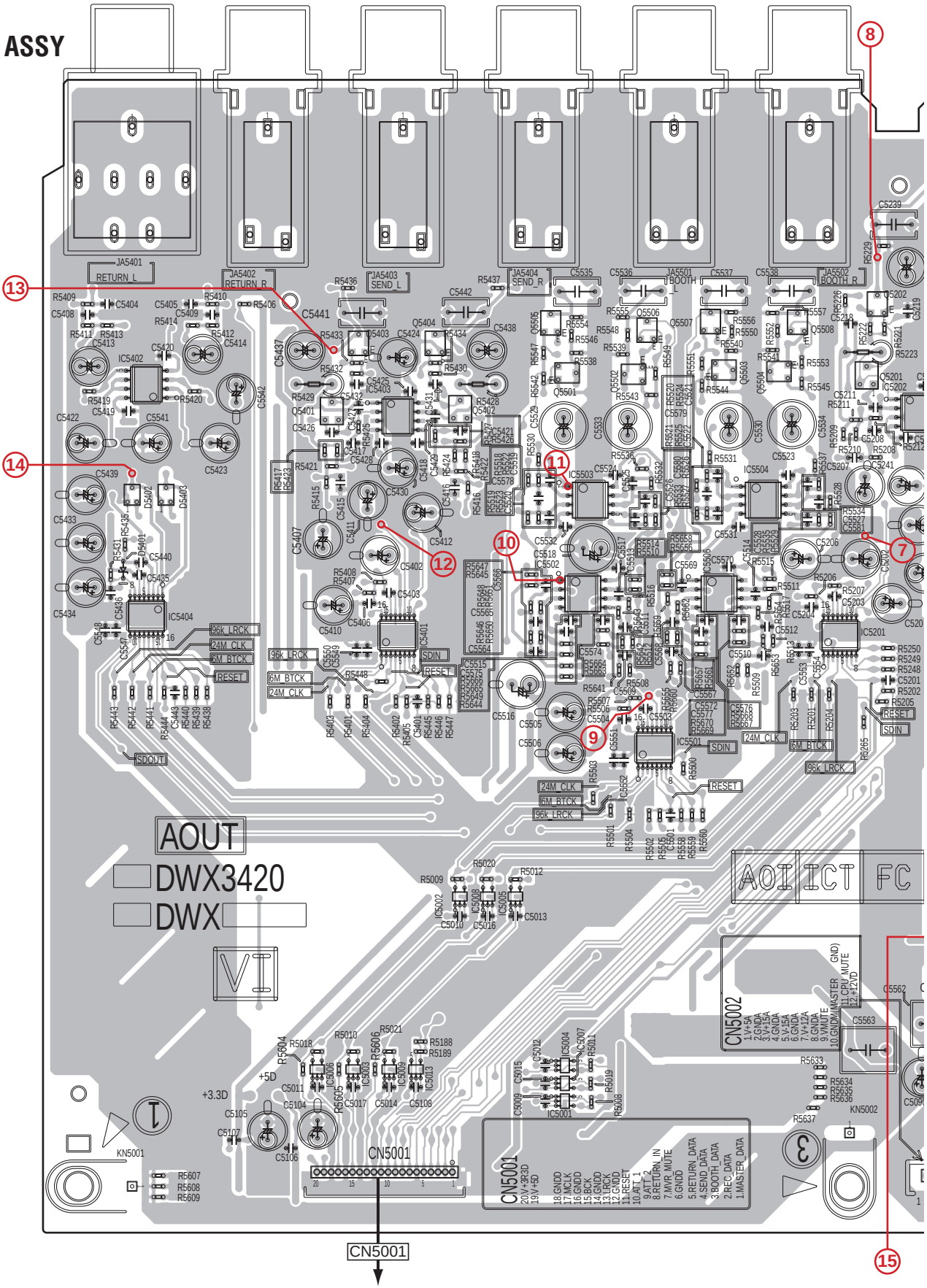
(DNP2700-A)

700-A)

11.7 AOUT ASSY

SIDE A

M AOUT ASSY



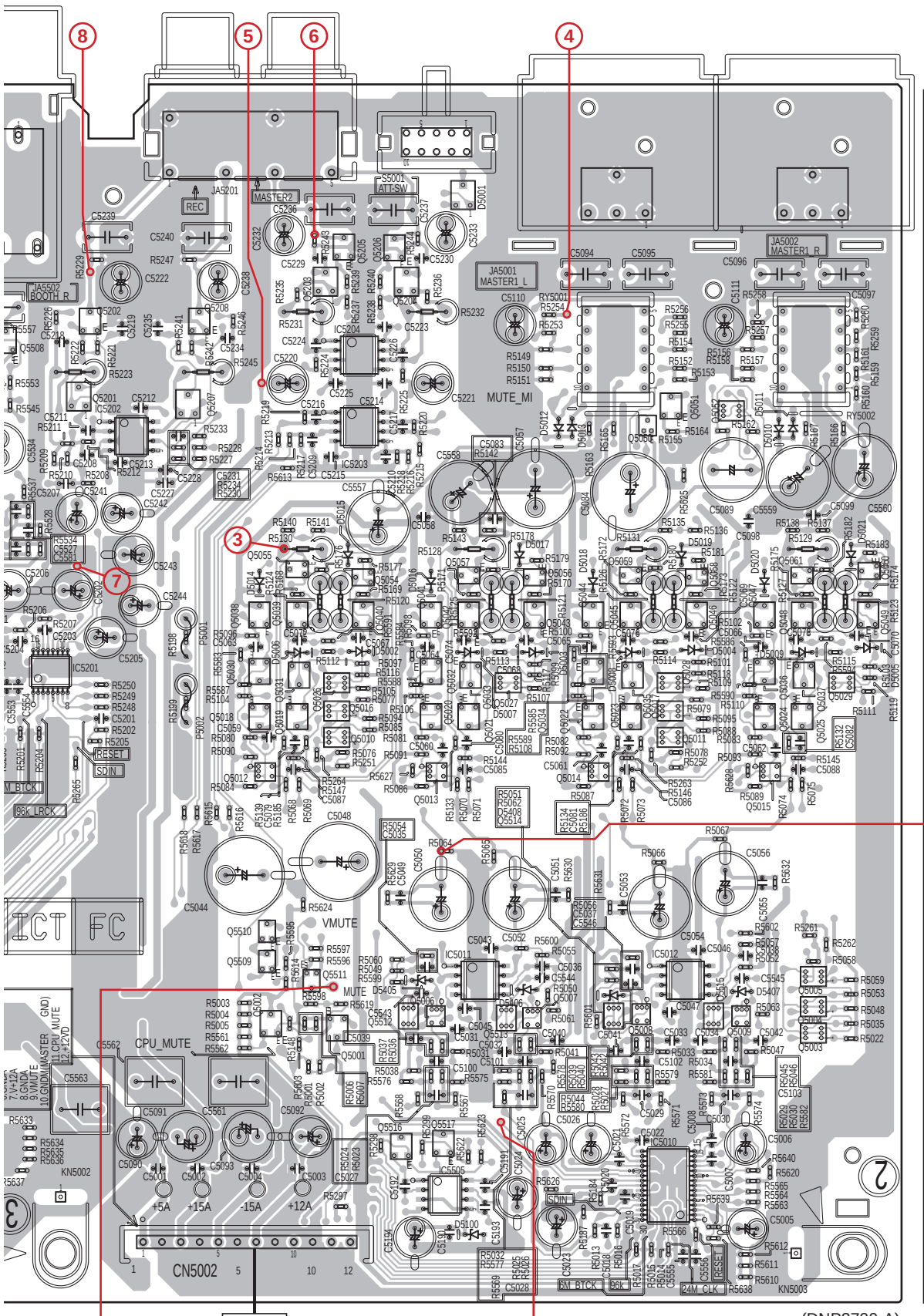
CN5001

I CN1105

DJM-2000NXS

注意: ◯で囲まれた数字は各測定ポイントの番号を示します。
NOTE: The encircled numbers denote measuring point.

SIDE A



SIDE B

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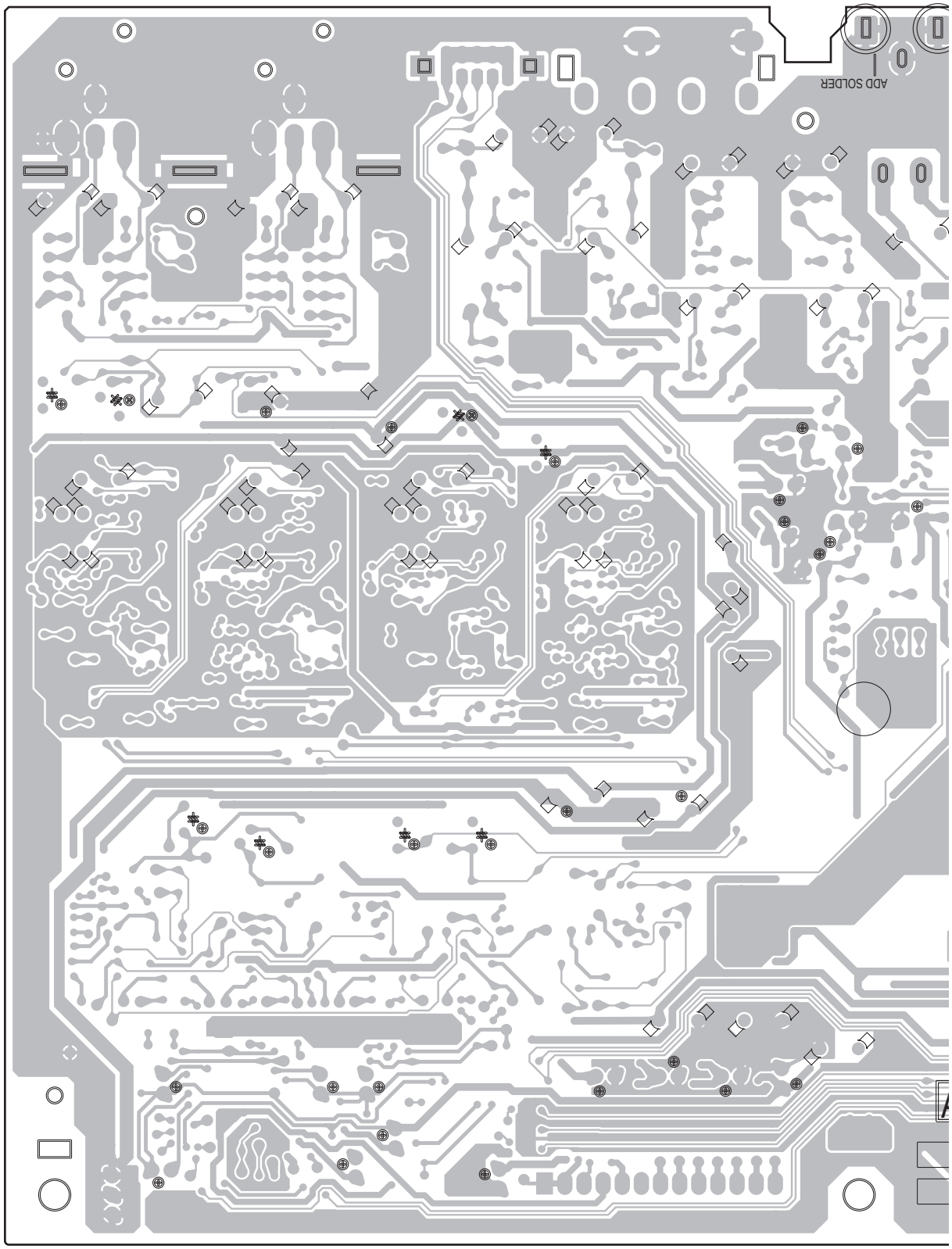
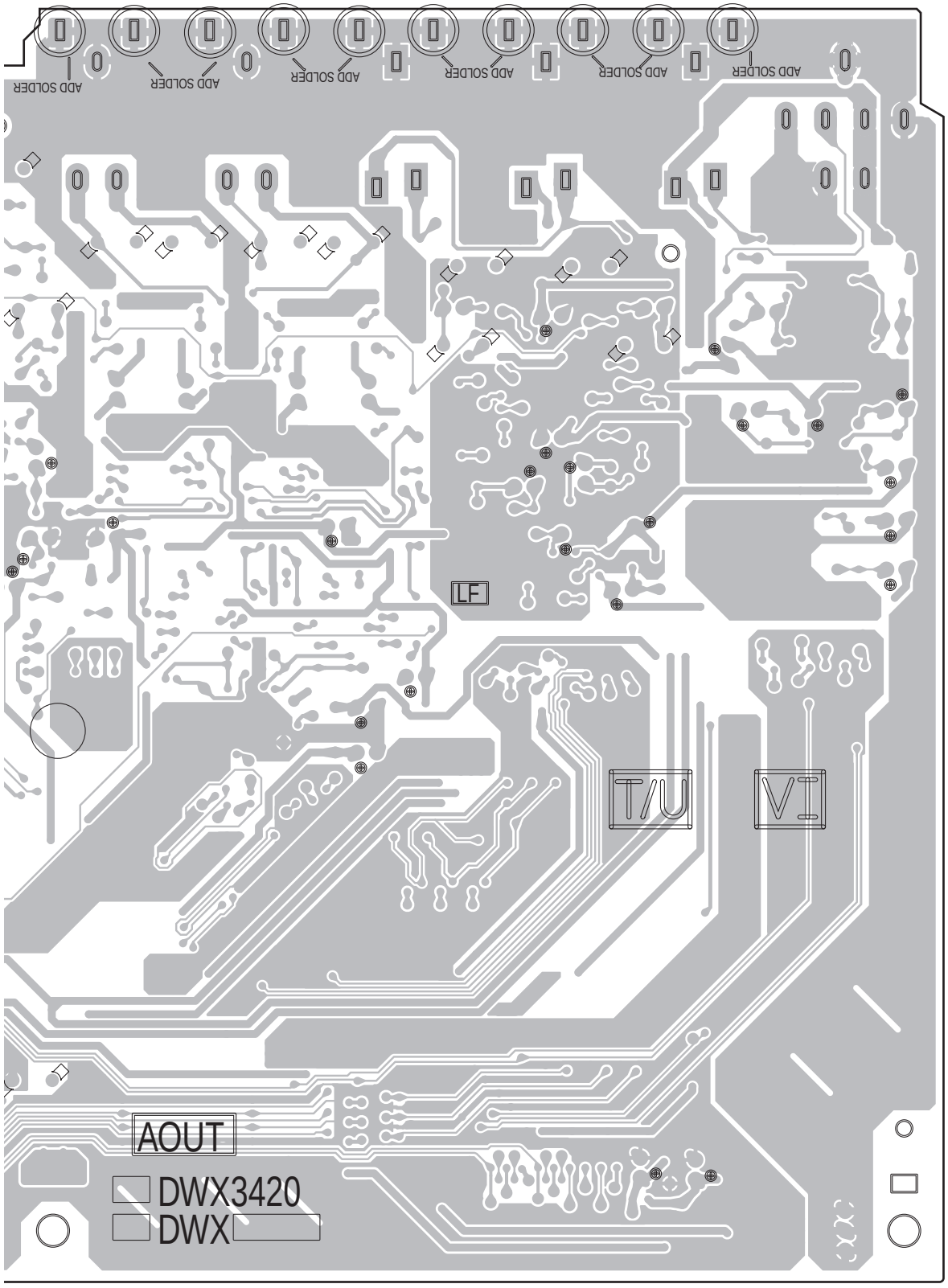
F

M AOUT ASSY

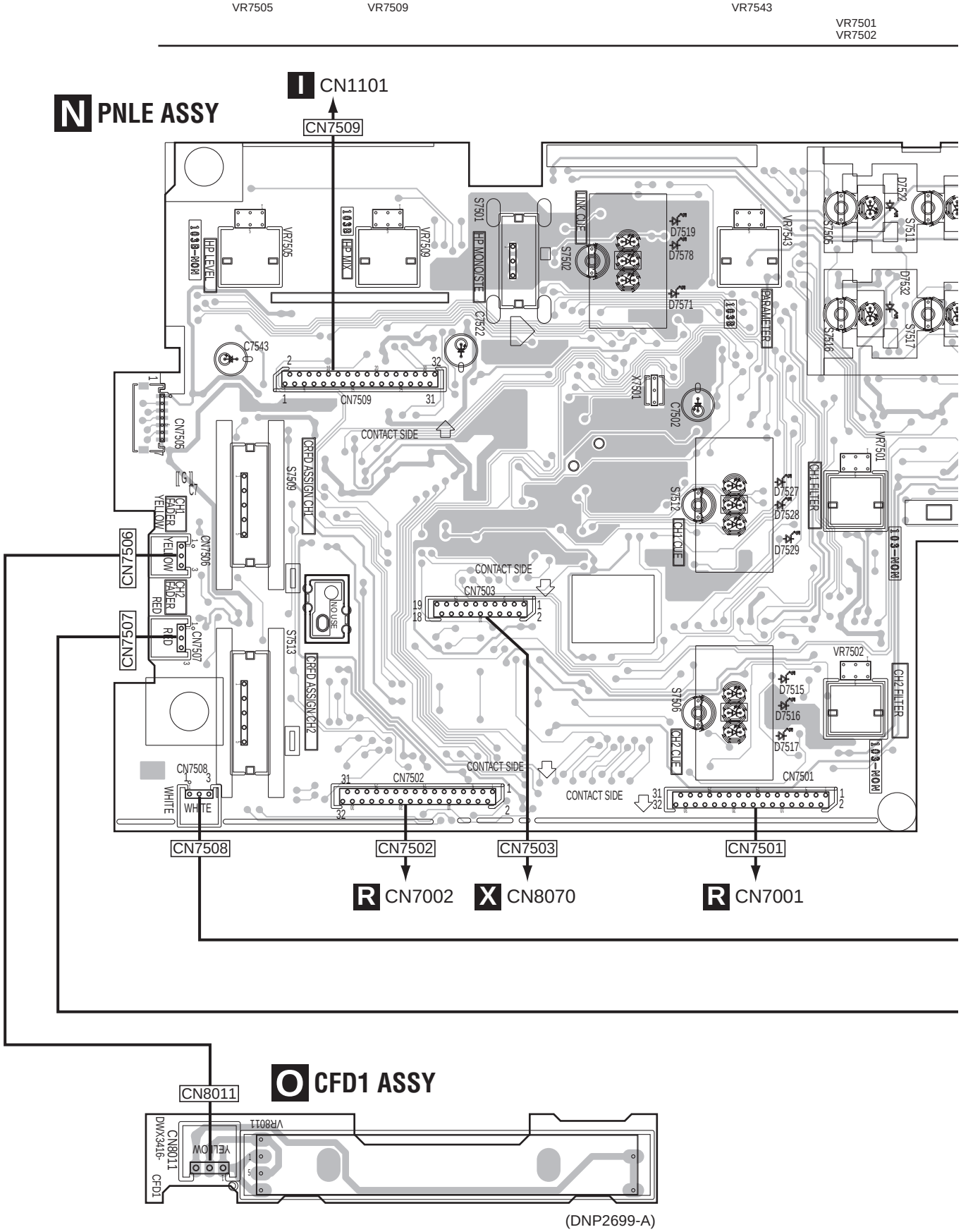


SIDE B


ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
LF
T/U
VI
AOUT
DWX3420
DWX
CN5001
(DNP2700-A)

11.8 PNLE, CFD1, CFD2 and CRFD ASSYS

SIDE A

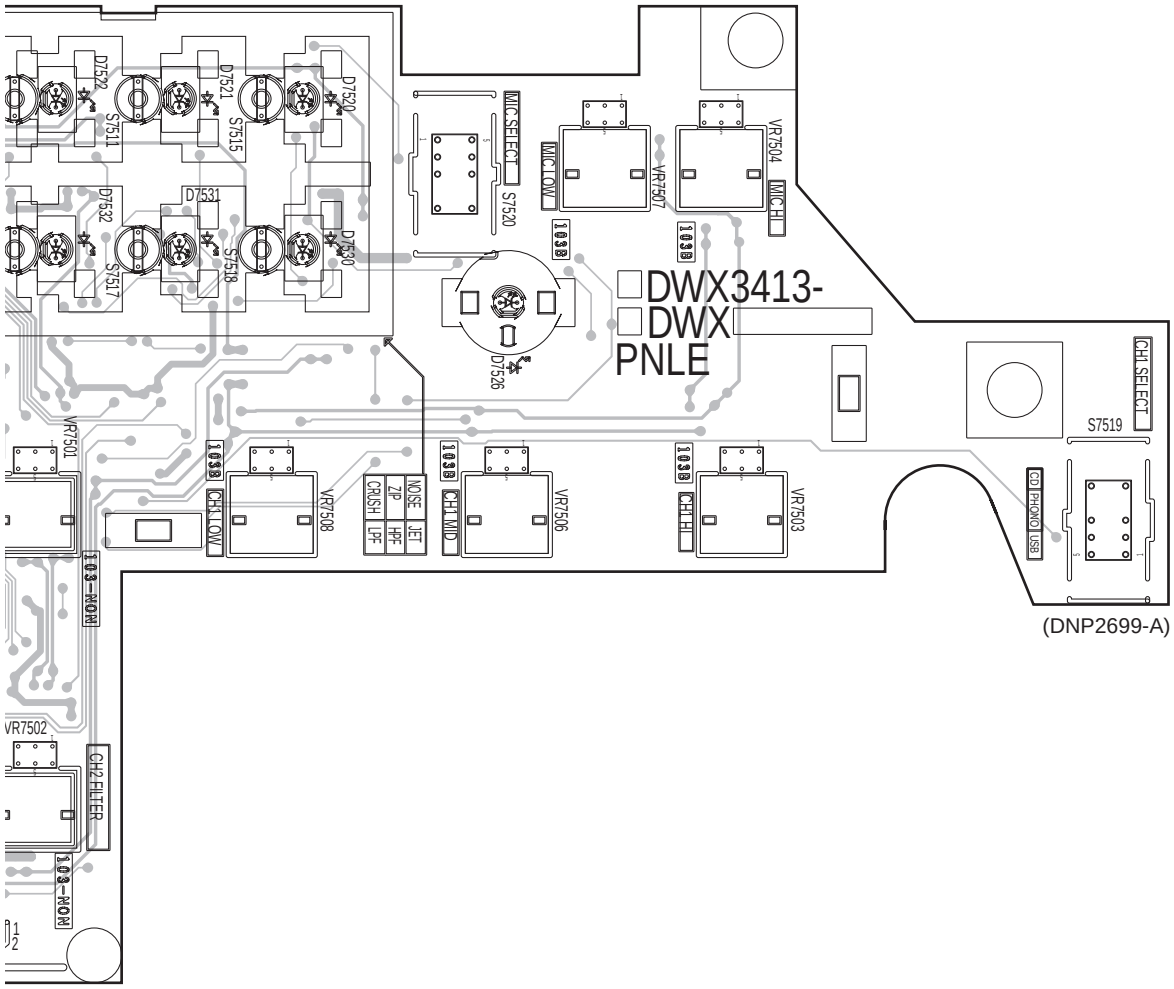


(DNP2699-A)

N O

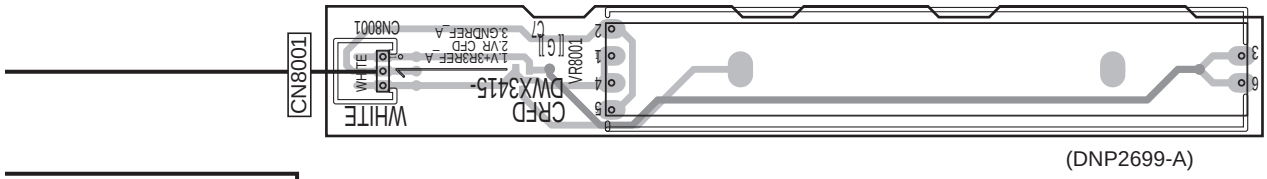
SIDE A

VR7501
VR7502
VR7508
VR7506
VR7507
VR7504
VR7503



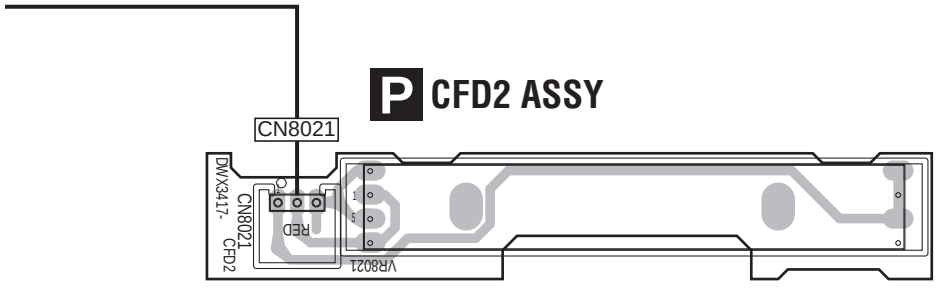
(DNP2699-A)

Q CRFD ASSY



(DNP2699-A)

P CFD2 ASSY



(DNP2699-A)

SIDE B

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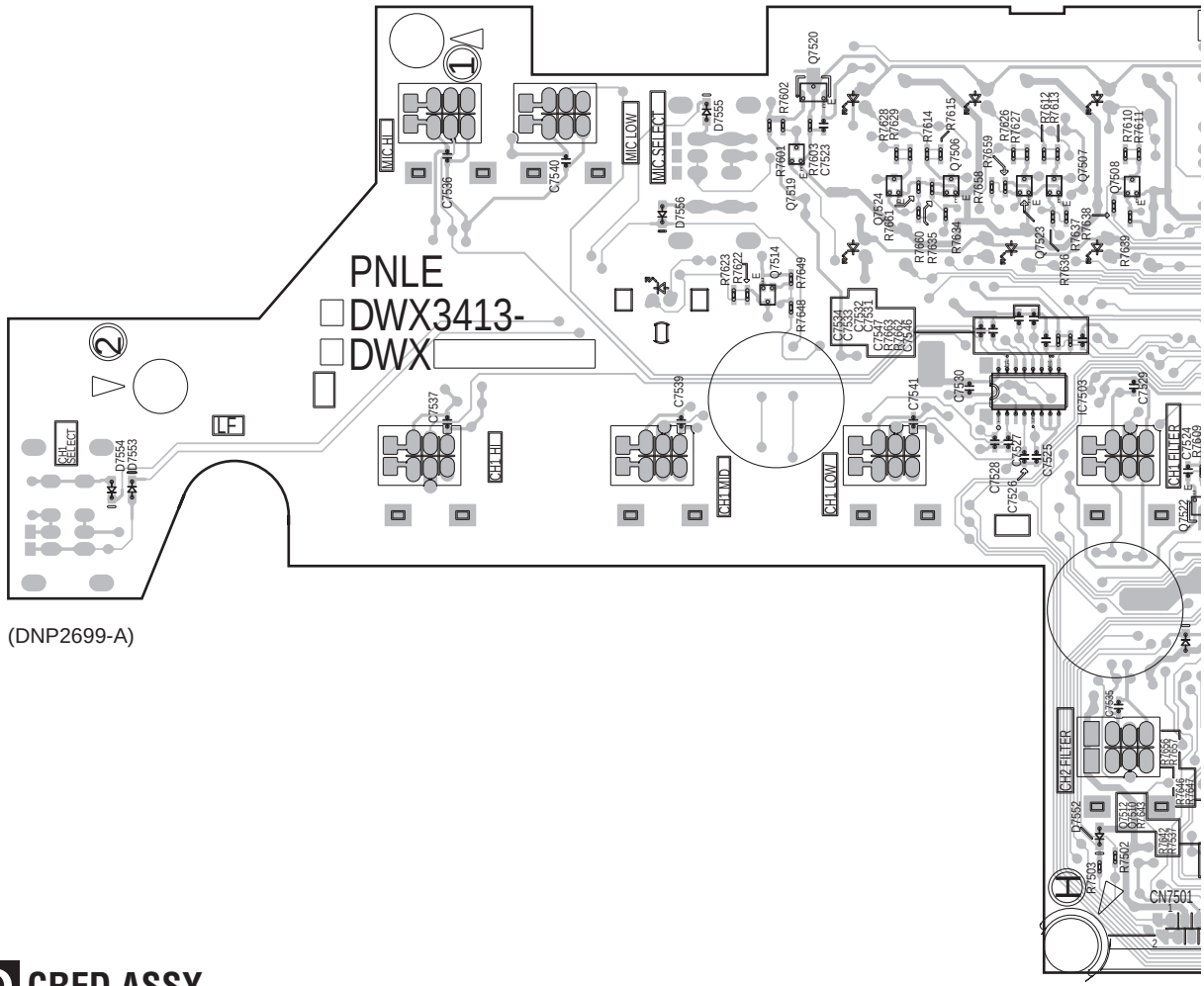
E

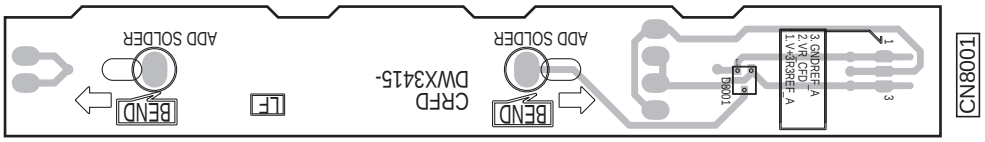
F

N PNLE ASSY



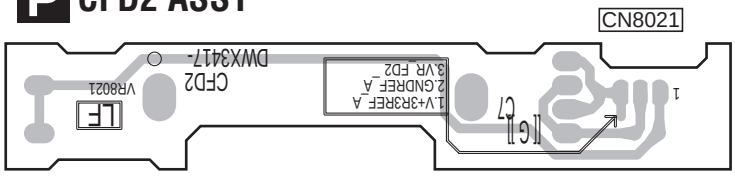
(DNP2699-A)

Q CRFD ASSY



(DNP2699-A)

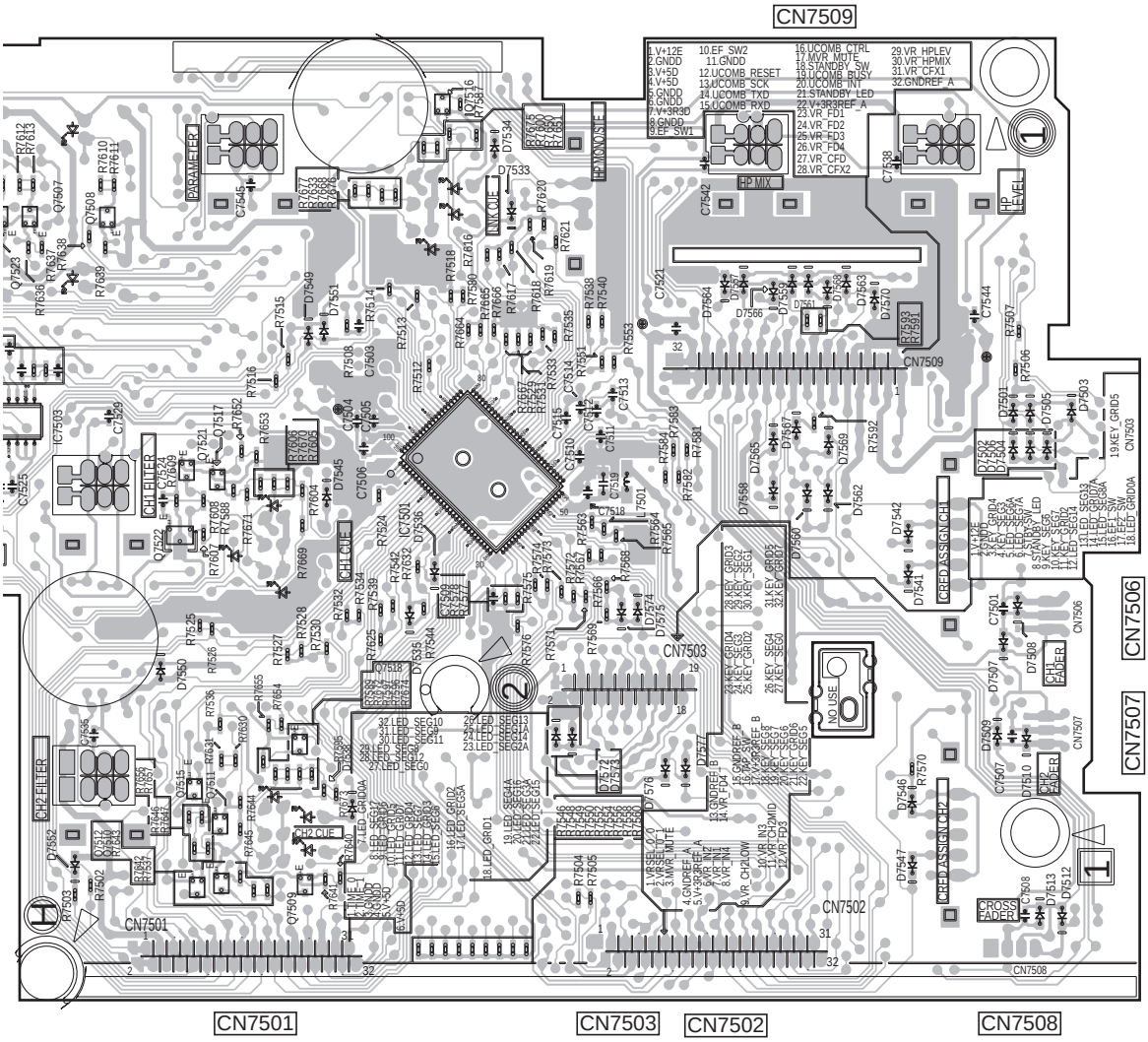
P CFD2 ASSY



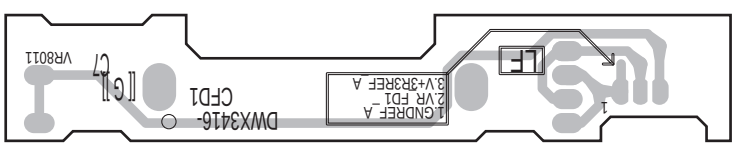
(DNP2699-A)

SIDE B

3 Q7507 Q7508 Q7521 Q7517 Q7516
'503 Q7522 IC7501
Q7515 Q7511 Q7518
Q7512 Q7510 Q7509



CFD1 ASSY



(DNP2699-A)

11.9 PNCE ASSY

SIDE A

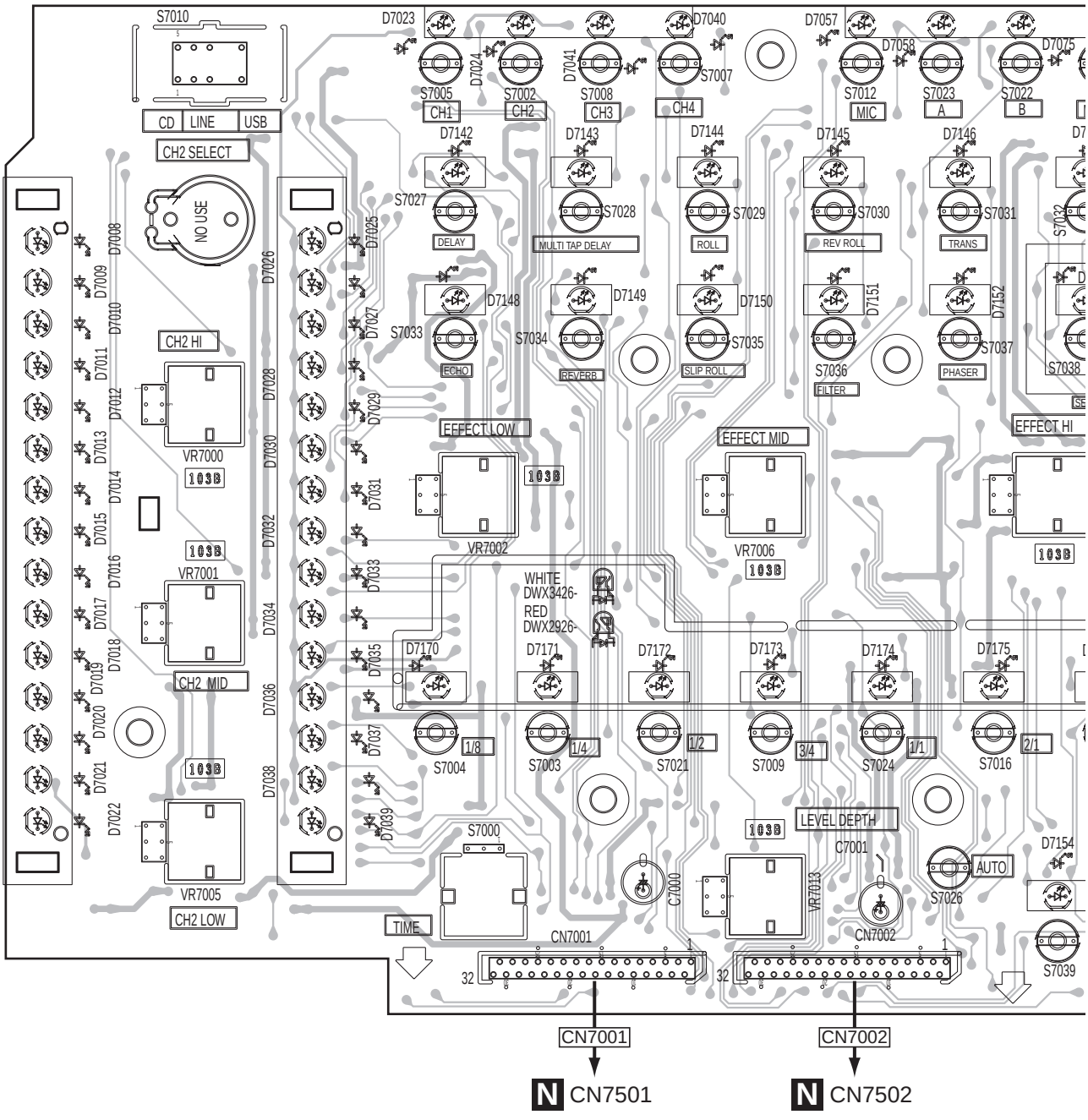
VR7000
VR7001
VR7005

VR7002

VR7006
VR7013

VR7010

R PNCE ASSY



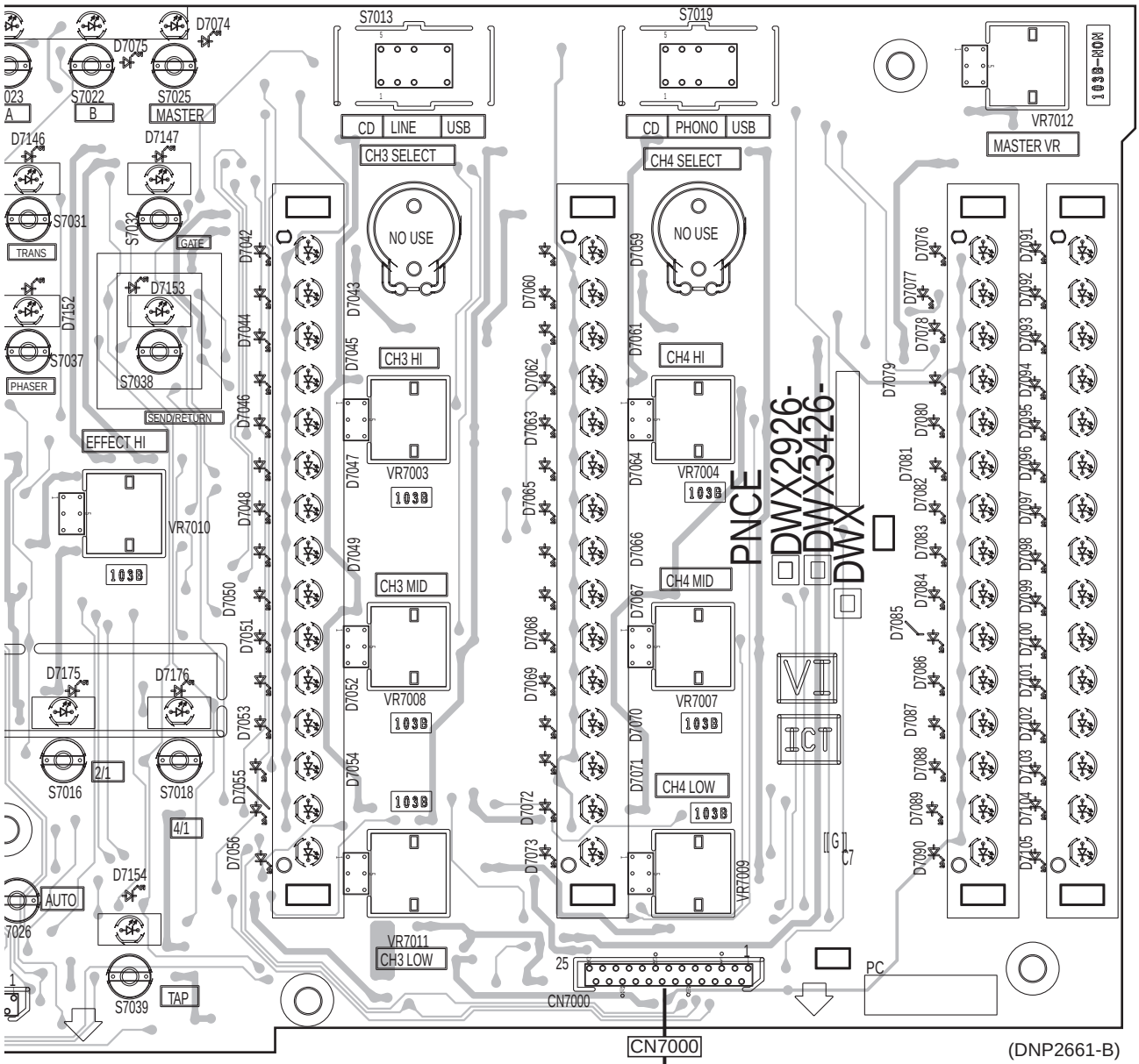
SIDE A

VR7010

VR7003
VR7008
VR7011

VR7004
VR7007
VR7009

VR7012



CN7000

S CN7801

SIDE B

A

B

C

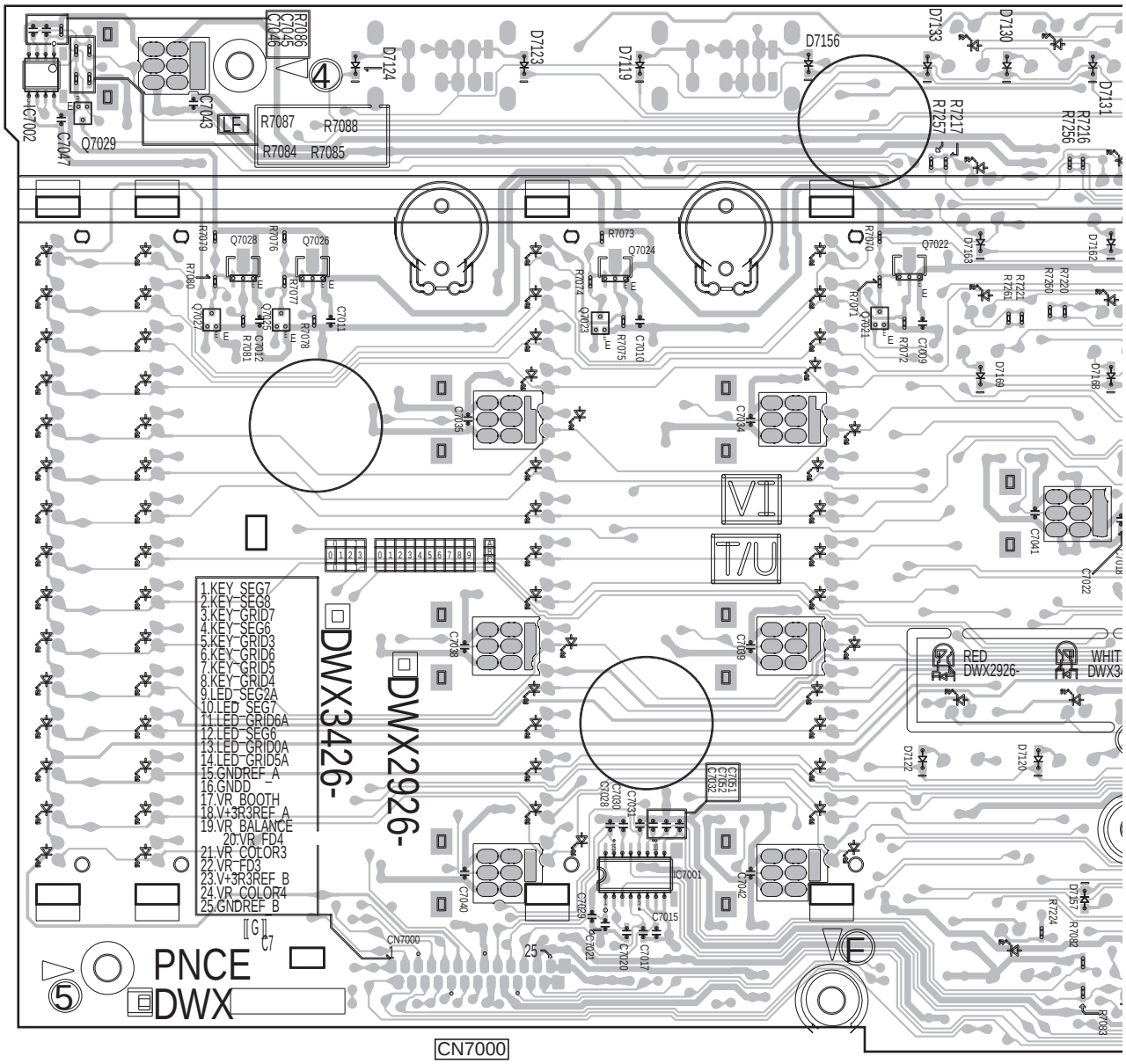
D

E

F

IC7002
Q7029
Q7028 Q7026
Q7027 Q7025
Q7024
Q7023
IC7001
Q7022
Q7021

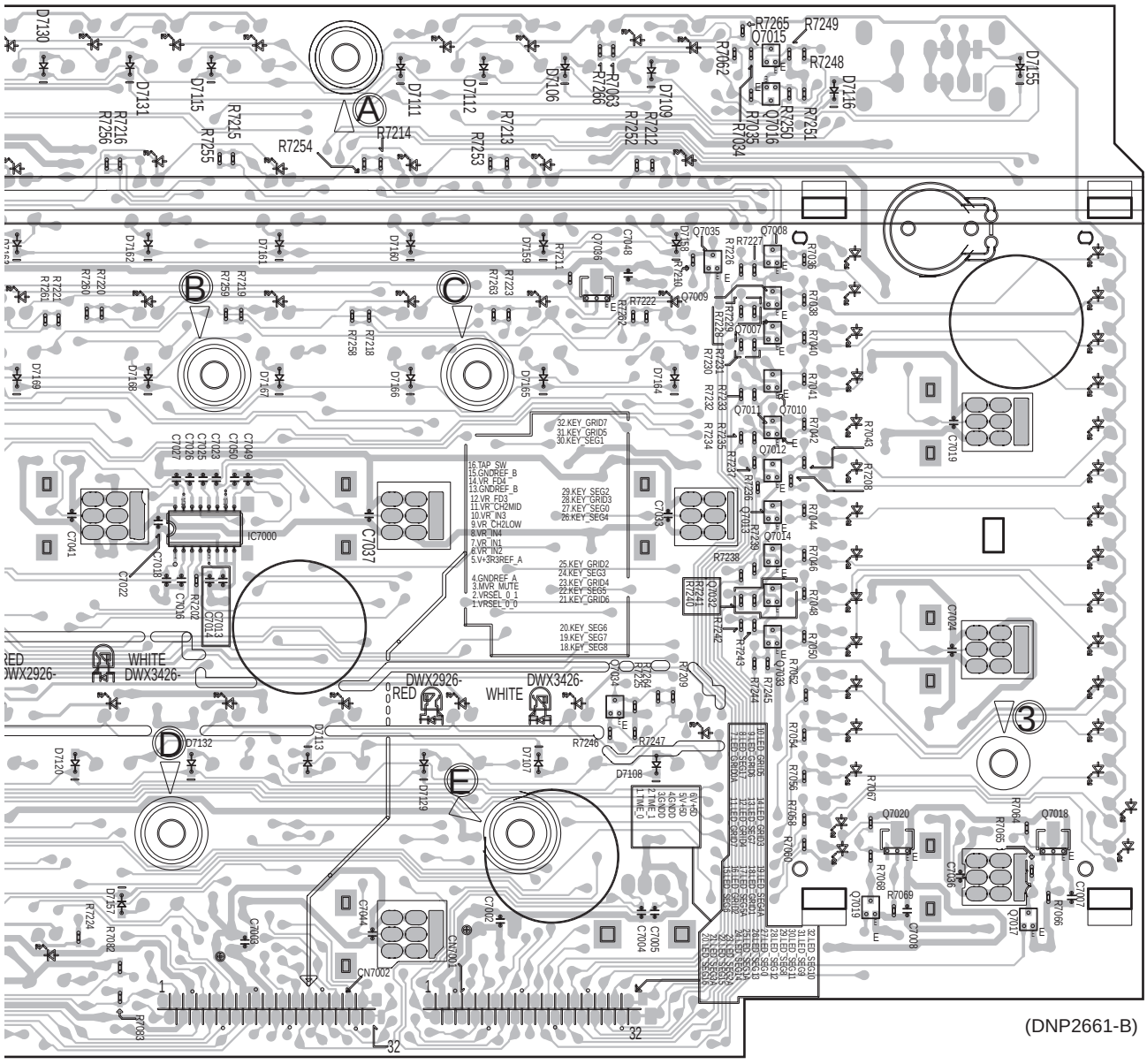
R PNCE ASSY



CN7000

SIDE B

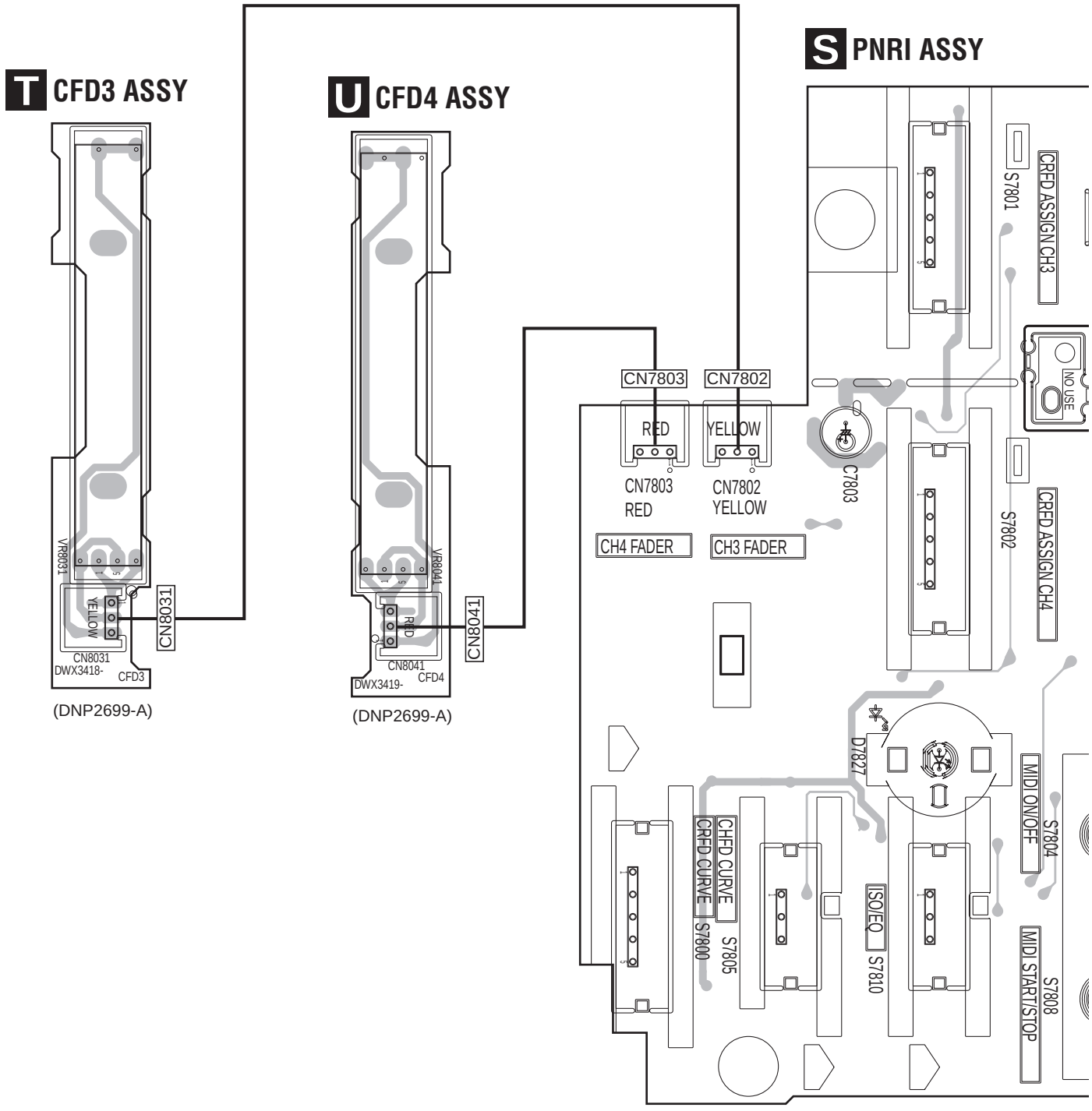
IC7000 Q7036 Q7034 Q7035 Q7015 Q7016 Q7007-7014 Q7032 Q7033 Q7020 Q7019 Q7018 Q7017



(DNP2661-B)

11.10 PNRI, CFD3 and CFD4 ASSYS

SIDE A



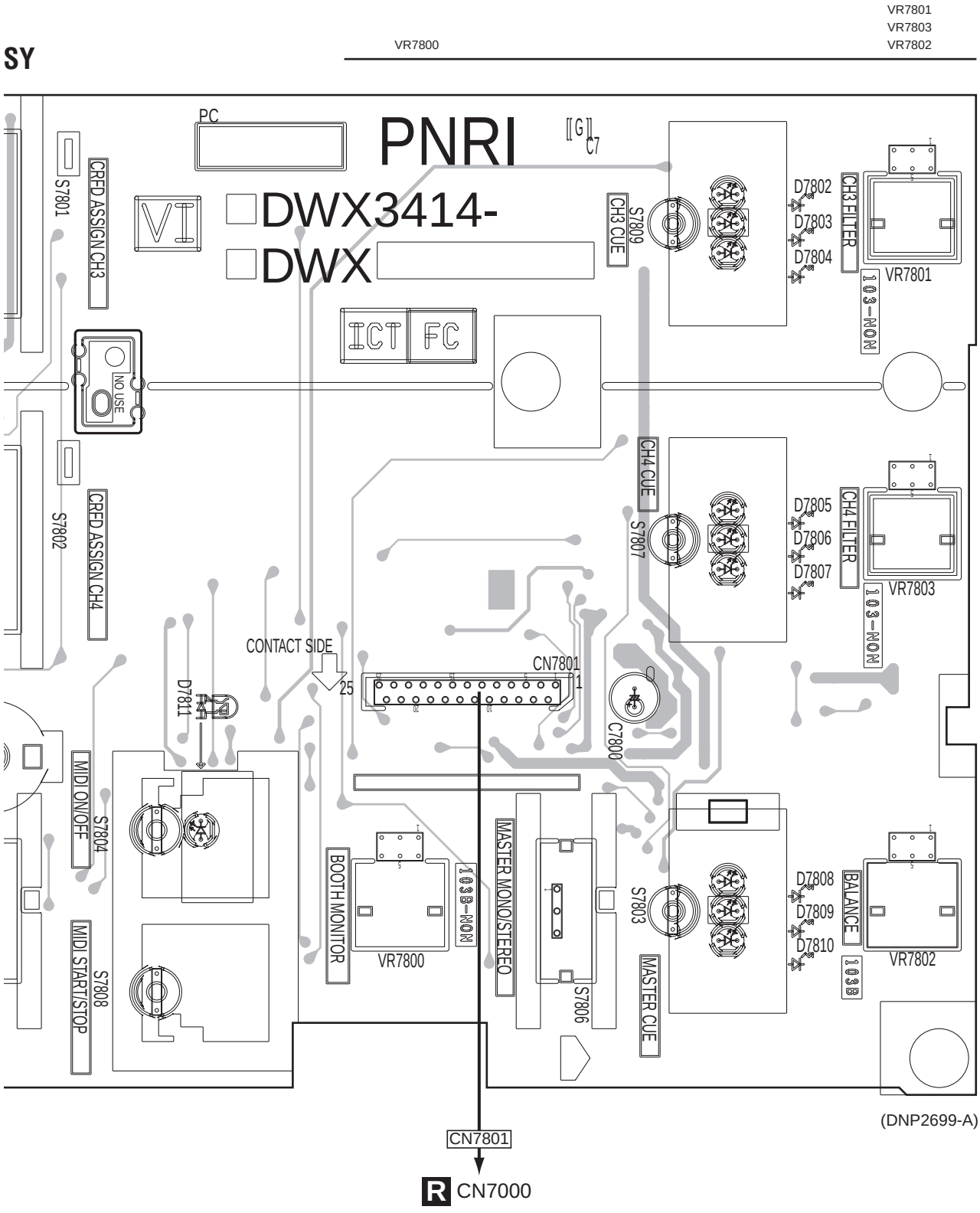
(DNP2699-A)

(DNP2699-A)

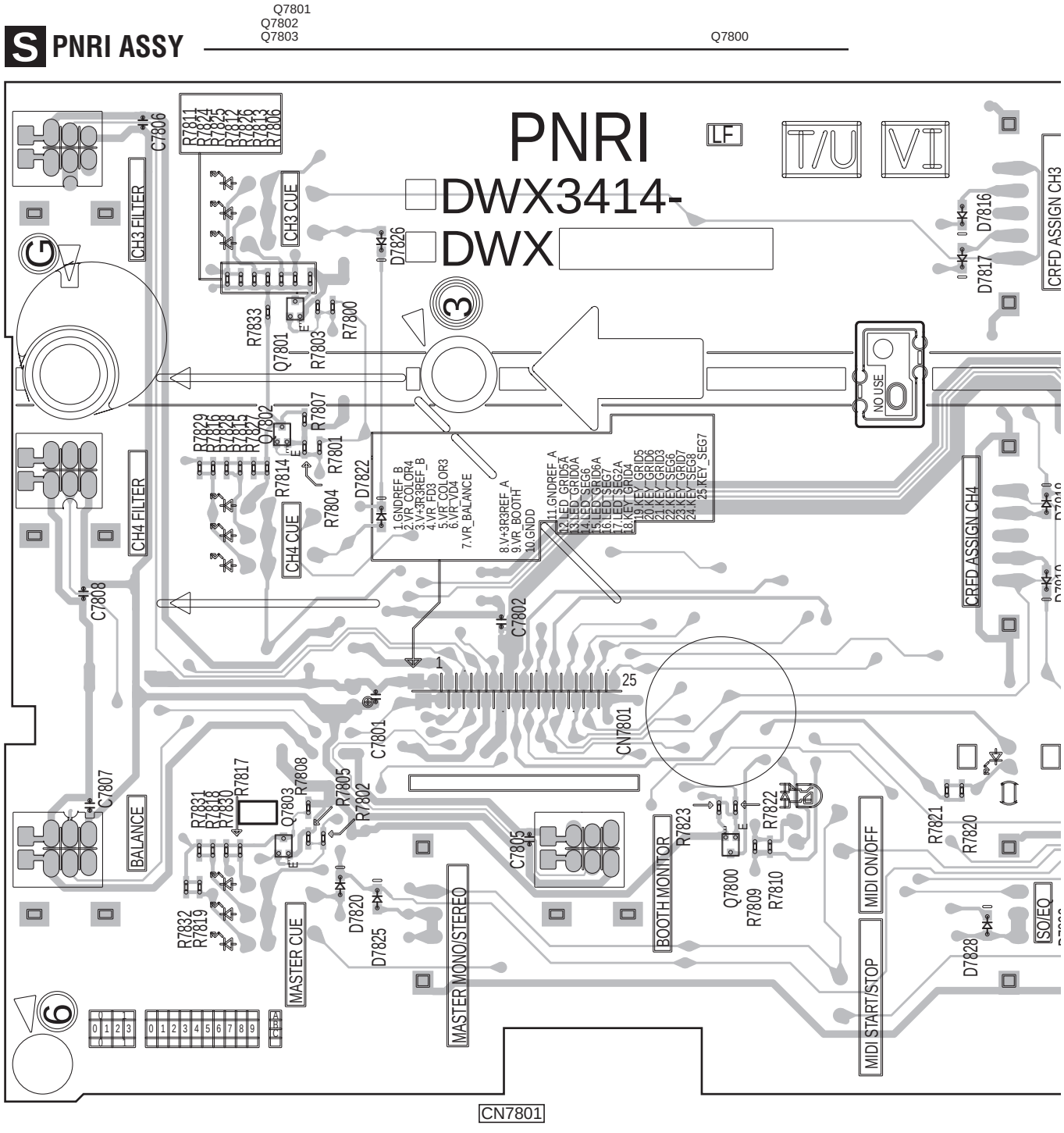
S T U

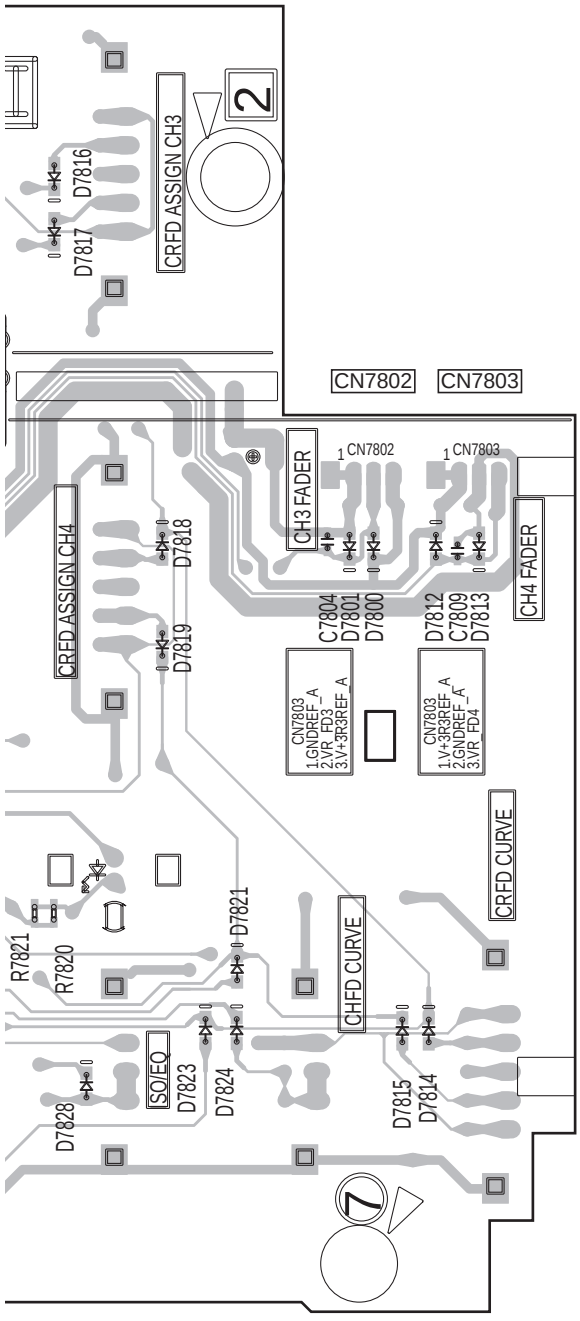
SIDE A

SY


VR7800
VR7801
VR7803
VR7802
PC
PNRI
DWX3414-
DWX
S7801
CRFD ASSIGN CH3
NO USE
S7802
CRFD ASSIGN CH4
S7809
CH3 CUE
D7802
D7803
D7804
CH3 FILTER
VR7801
103-NON
CH4 CUE
S7807
D7805
D7806
D7807
CH4 FILTER
VR7803
CONTACT SIDE
CN7801
25
1
D7811
C7800
MIDI ON/OFF
S7804
MIDI START/STOP
S7808
BOOTH MONITOR
VR7800
MASTER MONO/STEREO
S7806
S7803
MASTER CUE
D7808
D7809
D7810
BALANCE
VR7802
103B
(DNP2699-A)
CN7801
R CN7000

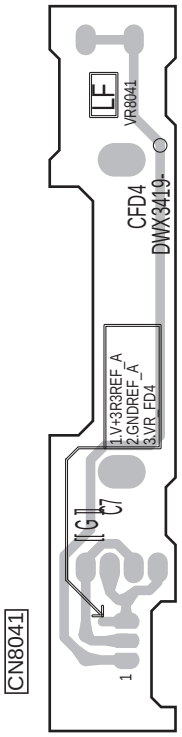
S PNRI ASSY


Q7801
Q7802
Q7803
Q7800
PNRI
LF
T/U
VI
DWX3414-
DWX
CH3 FILTER
CH4 FILTER
CH3 CUE
CH4 CUE
BALANCE
MASTER CUE
MASTER MONO/STEREO
BOOTH MONITOR
MIDI ON/OFF
MIDI START/STOP
CRFD ASSIGN CH3
CRED ASSIGN CH4
NO USE
CN7801



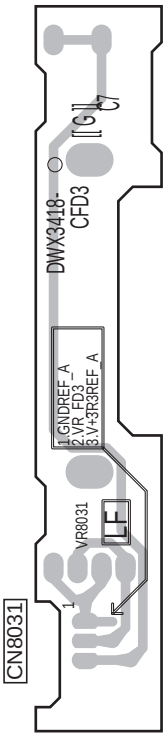
(DNP2699-A)

U CFD4 ASSY



(DNP2699-A)

T CFD3 ASSY



(DNP2699-A)

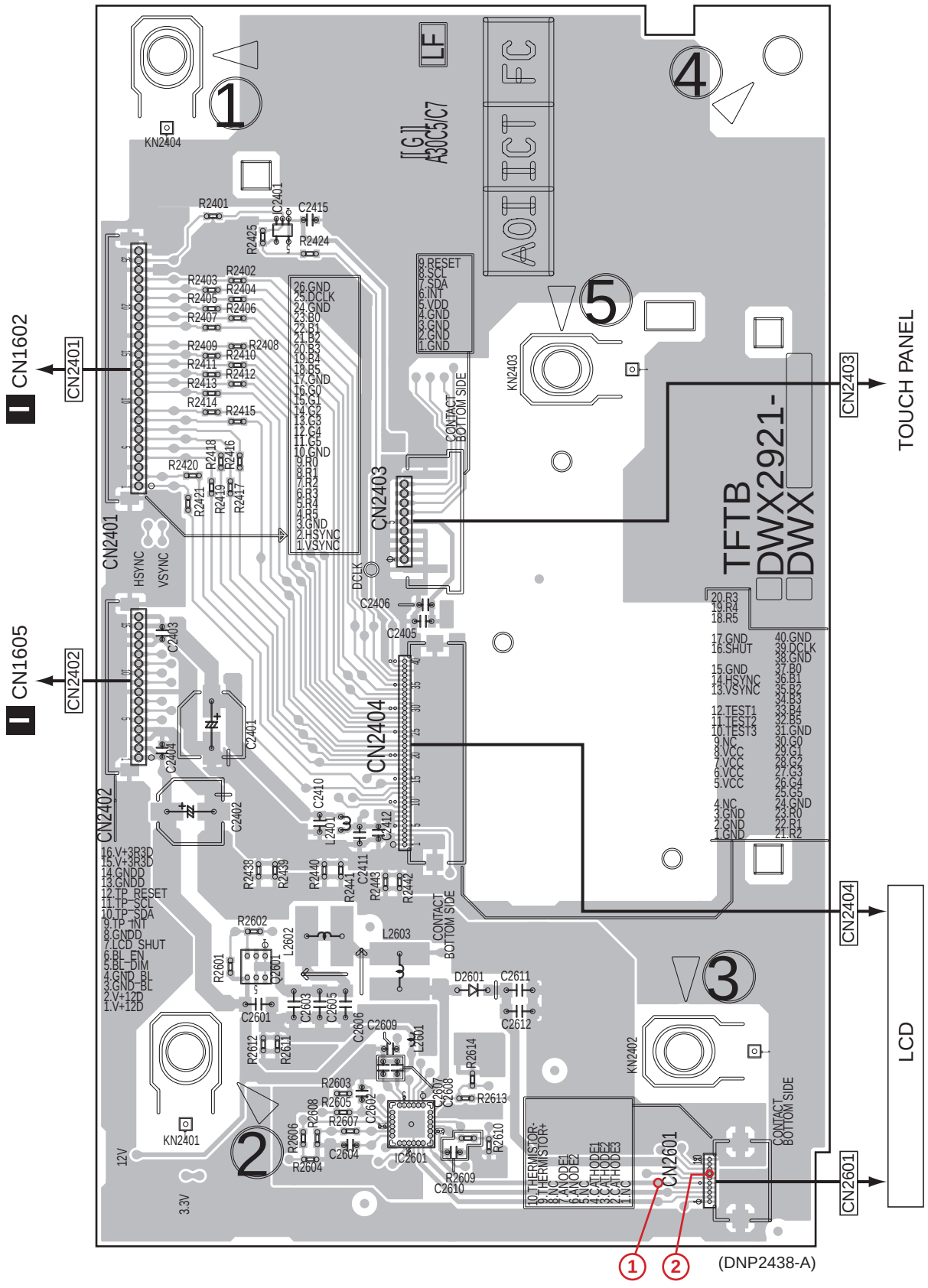
11.11 TFTB ASSY

SIDE A

注意: ◯で囲まれた数字は各測定ポイントの番号を示します。
NOTE: The encircled numbers denote measuring point.

SIDE A

V TFTB ASSY

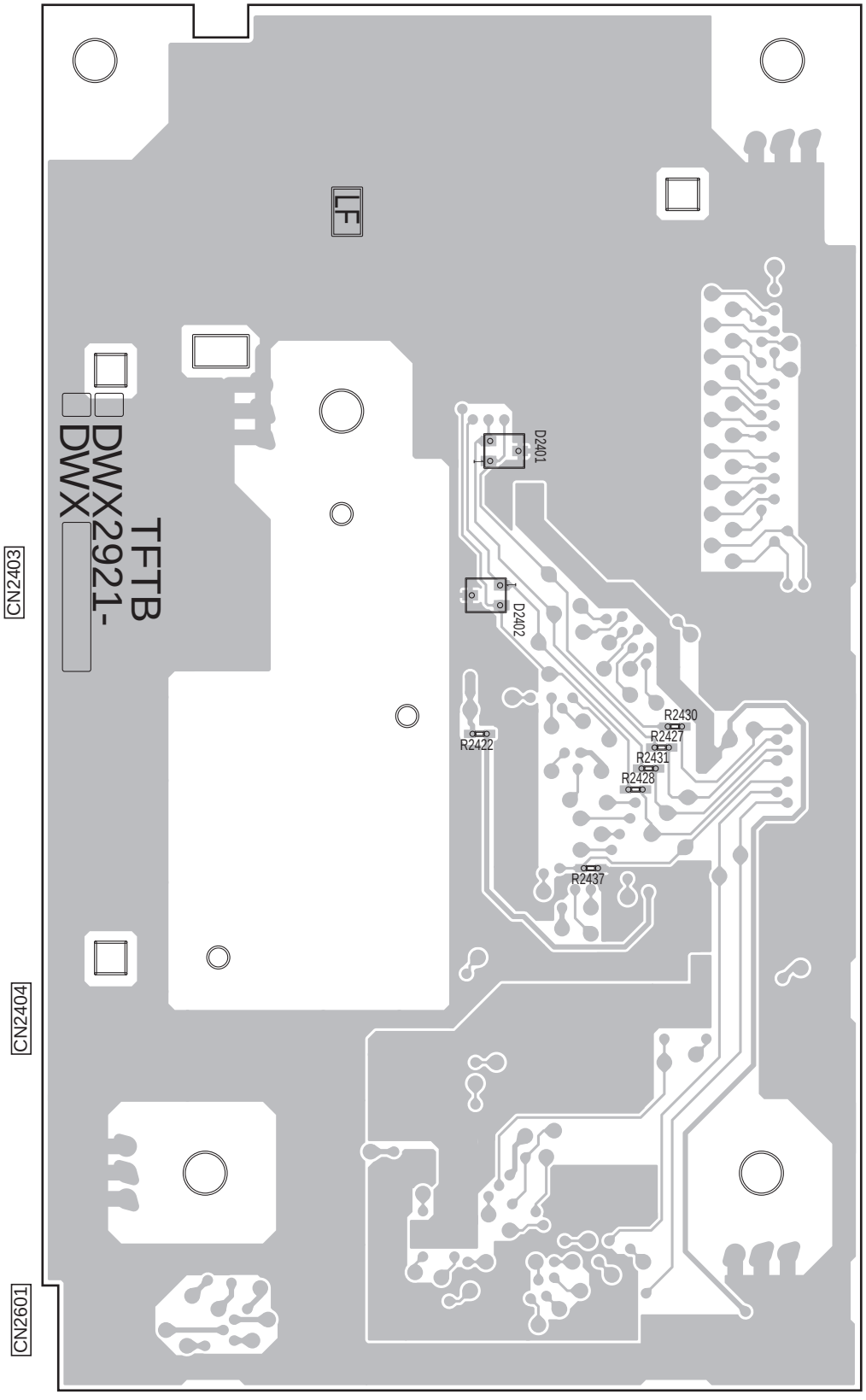


IC2401
Q2601
IC2601

SIDE B

SIDE B

V TFTB ASSY



(DNP2438-A)

5 6 7 8

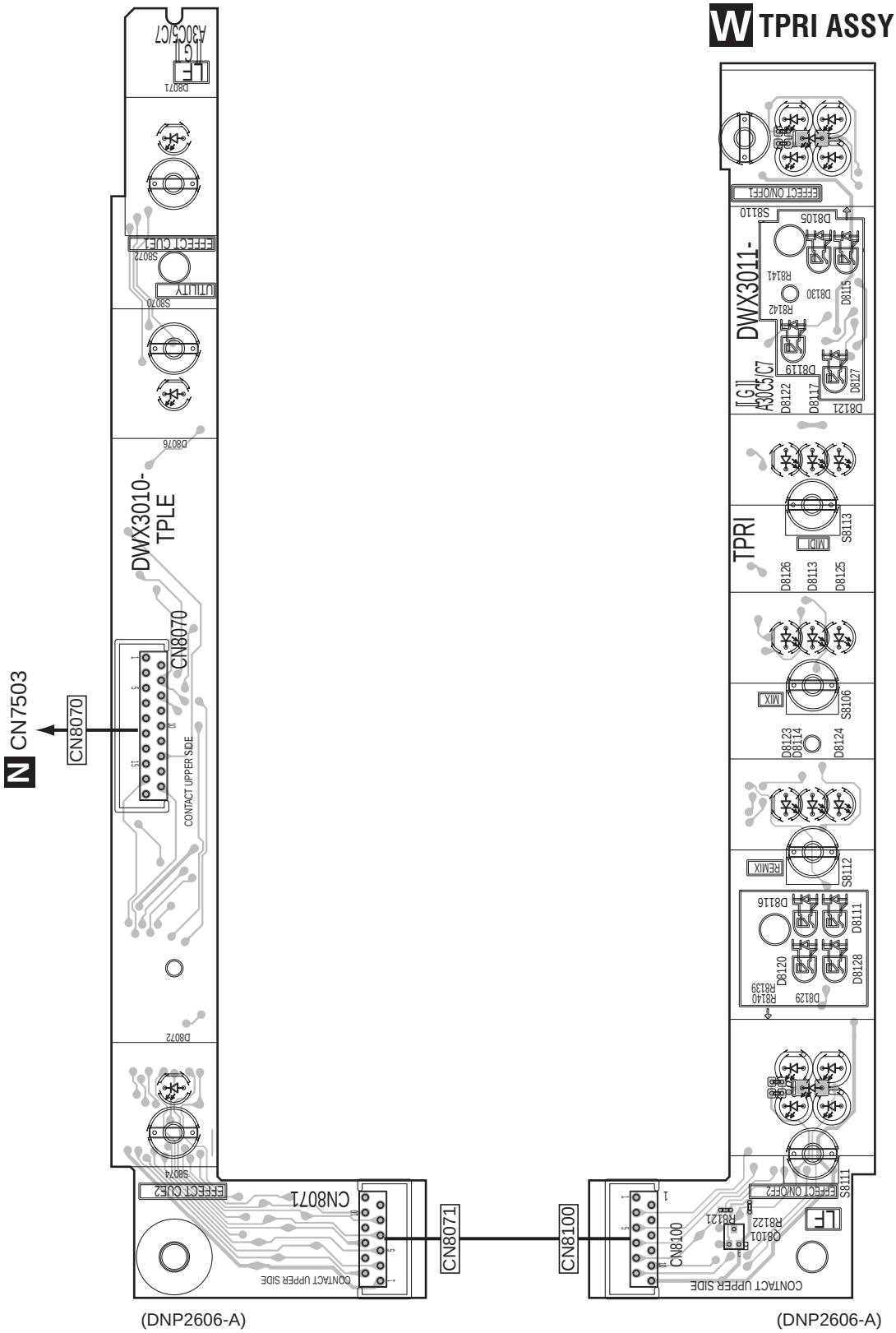
11.12 TPRI and TPLE ASSYS

SIDE A

SIDE A

X TPLE ASSY

W TPRI ASSY



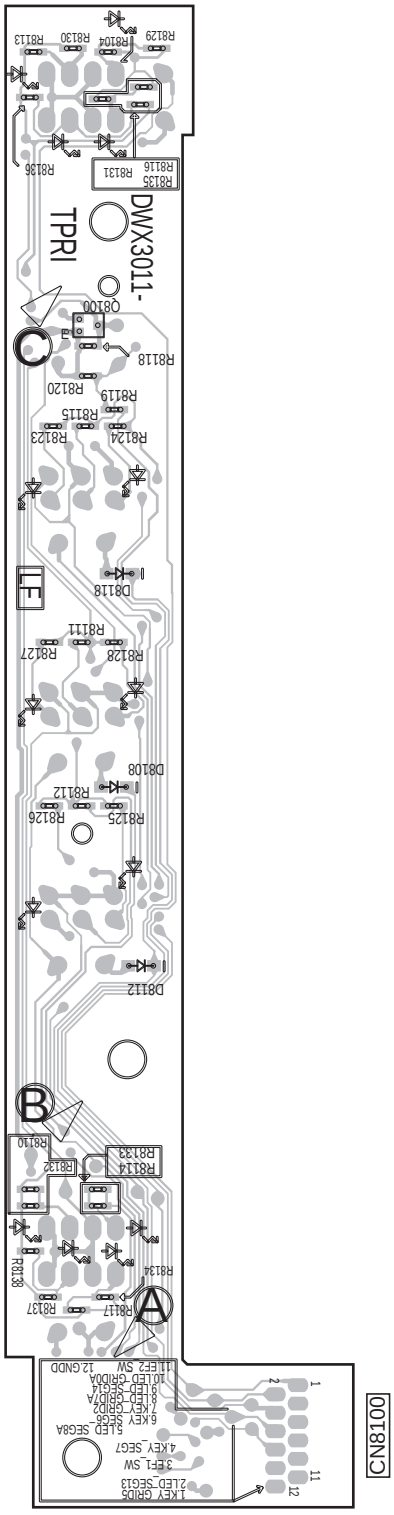
(DNP2606-A)

(DNP2606-A)

W X

SIDE B

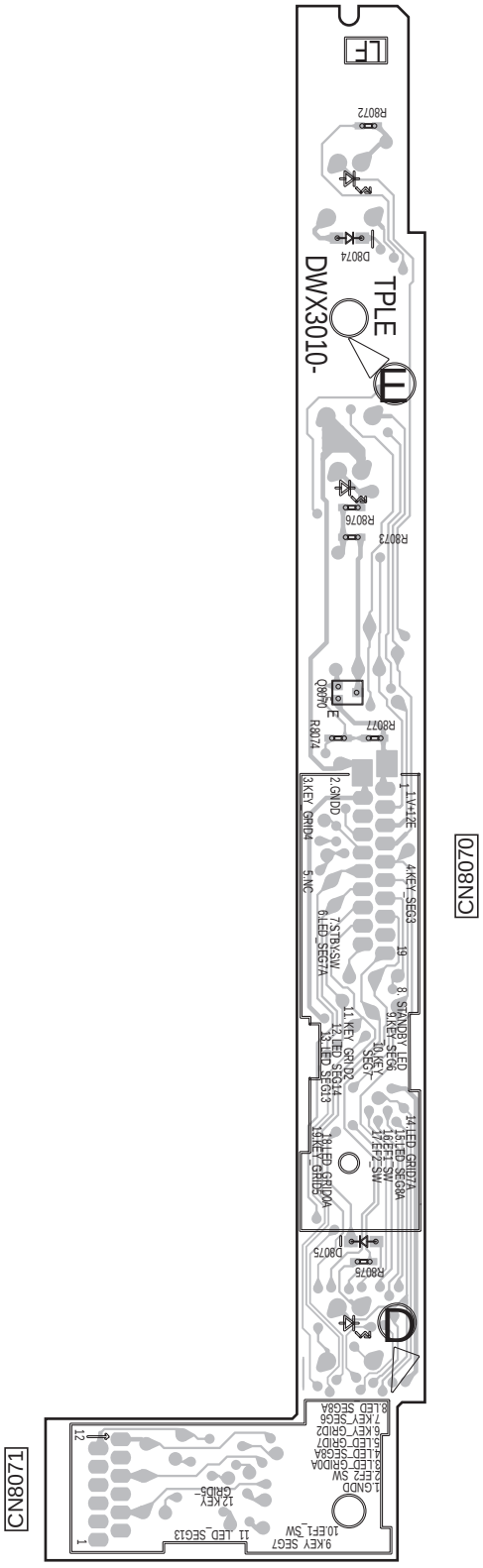
W TPRI ASSY



(DNP2606-A)

SIDE B

X TPLE ASSY



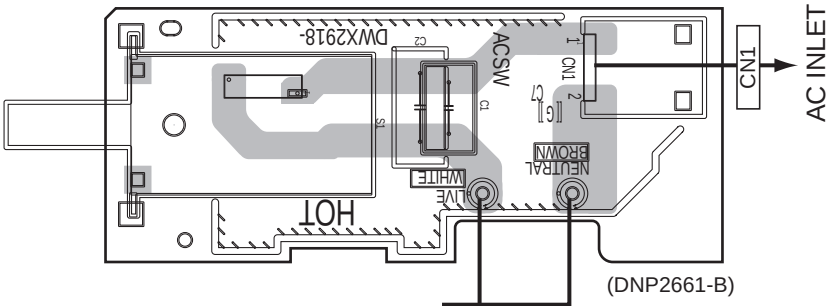
(DNP2606-A)

11.13 POWER SUPPLY and ACSW ASSYS

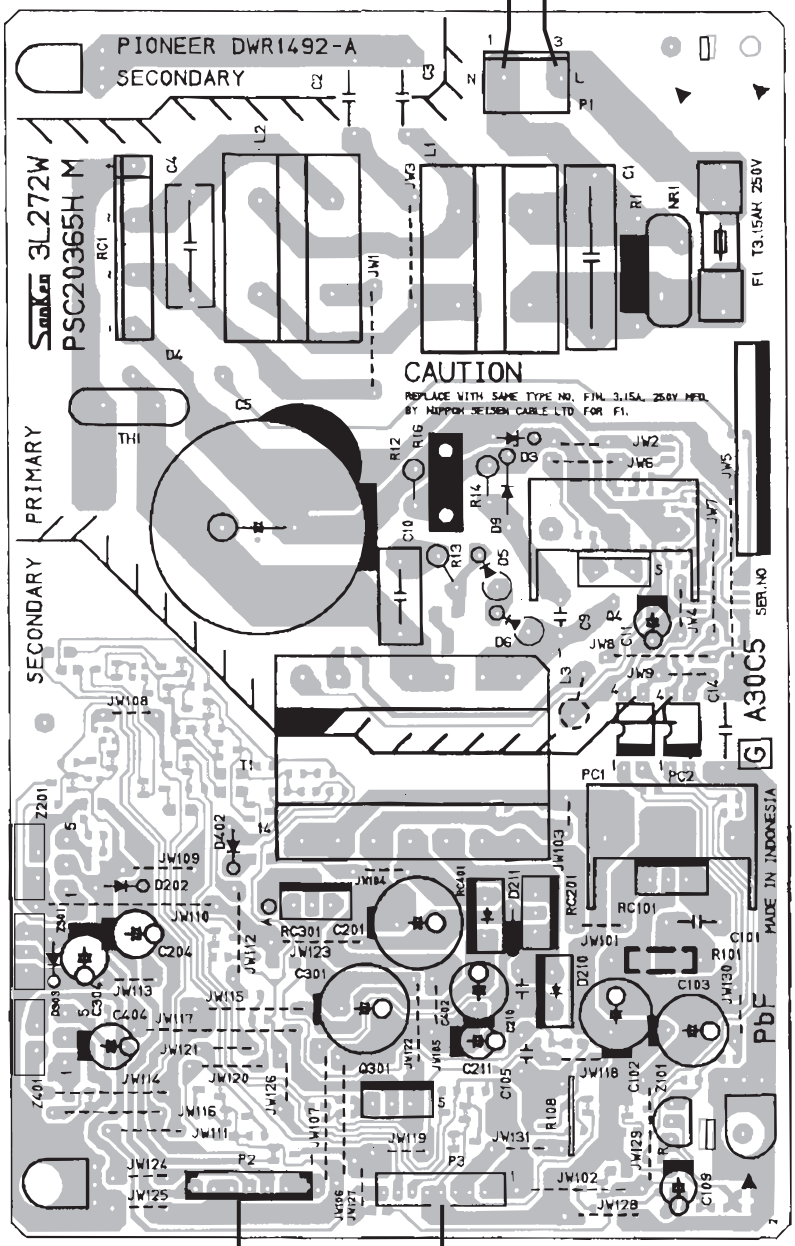
SIDE A

SIDE A

Z ACSW ASSY



Y POWER SUPPLY ASSY



J CN101 J CN102

Y Z

12. PCB PARTS LIST

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.*

● *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 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω → 56 × 10¹ → 561 ····· RD1/4PU [5][6][1] J
47 kΩ → 47 × 10³ → 473 ····· RD1/4PU [4][7][3] J
0.5 Ω → R50 ····· RN2H [R][5][0] K
1 Ω → 1R0 ····· RS1P [1][R][0] K

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

5.62 kΩ → 562 × 10¹ → 5621 ····· RN1/4PC [5][6][2][1] F

● *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
NSP	1	..AITF ASSY	DWM2334
	2	..TFTB ASSY	DWX2921
	2	..AIN1 ASSY	DWX2922
	2	..TRIM1 ASSY	DWX2935
	2	..TRIM2 ASSY	DWX2936
NSP	1	..AIPC ASSY	DWM2335
	2	..AIN2 ASSY	DWX2923
	2	..PCIF ASSY	DWX2925
	2	..TRIM3 ASSY	DWX2937
	2	..TRIM4 ASSY	DWX2938
	2	..TPLE ASSY	DWX3010
	2	..TPRI ASSY	DWX3011
NSP	1	..PNLB ASSY	DWM2483
	2	..PNLE ASSY	DWX3413
	2	..PNRI ASSY	DWX3414
	2	..CRFD ASSY	DWX3415
	2	..CFD1 ASSY	DWX3416
	2	..CFD2 ASSY	DWX3417
	2	..CFD3 ASSY	DWX3418
	2	..CFD4 ASSY	DWX3419
NSP	1	..OUHP ASSY	DWM2484
	2	..AOUT ASSY	DWX3420
	2	..HPJK ASSY	DWX3421
	2	..HAMP ASSY	DWX3422
	2	..HREG ASSY	DWX3423
NSP	1	..PNLA ASSY	DWM2485
	2	..ACSW ASSY	DWX2918
	2	..MCJK ASSY	DWX2934
	2	..PNCE ASSY	DWX3426
	1	..MAIN ASSY	DWX3424
⚠	1	..POWER SUPPLY ASSY	DWR1492

A AIN1 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	3000,3001,3004-3006	NJM4580MD
	IC	3002	TC74VHC74FTS1
	IC	3003,3302	CS5381-KZ
	IC	3007,3306	RNB4580F
	IC	3300,3301,3303-3305	NJM4580MD
	IC	4300-4303	TC7WU04FU
	IC	4314-4319	TC7SH08FUS1
	IC	4900	NJM4580MD
	IC	4901	AK5358AET
	Q	3000,3001,3003,3004	2SK3320
	Q	3002,3005-3009,3011	KTC801U
	Q	3010,3308,3309,3314	RT1N241M
	Q	3012,3013,3301,3302	2SK3320
	Q	3014-3016,3300,3303	KTC801U
	Q	3304,3307,3310-3313	KTC801U
	Q	3305,3306,3316,3317	2SK3320
	Q	3315,3318-3320	KTC801U
	Q	4501	2SC2412K
	Q	4900,4901	2SK209
	D	3000,3001,3301,3302	1SS355
	D	3002-3005,3303-3306	RB706D-40
	D	3300	RKZ5.6KG(B2)
	D	4904	UDZS3R3(B)
	D	4905	RB706D-40
	D	4906-4915	HZU3R0(B1)

MISCELLANEOUS

Mark	No.	Description	Part No.
	L	3300,3301 FERRITE CORE	VTF1093
	JA	3000,3300 JACK	DKB1083
	JA	3301 JACK	RKN1004
	JA	4300,4301 2P JACK	DKB1098
	JA	4500 JACK BOARD	PKB1033
	KN	4300,4301 WRAPPING TERMINAL	VNF1084
	VR	4900 ROTARY VR	DCS1072
	RY	3000,3300 RELAY	VSR1008
	S	3000,3300 SLIDE SWITCH	DSH1025
	CN	3000,3300 11P PLUG	XKP3065
	CN	4300 21P CONNECTOR	21R-1.25FJ
	CN	4302,4303 20P CONNECTOR	VKN1312
	CN	4900 CONNECTOR	CKS2643

RESISTORS

Mark	No.	Description	Part No.
	R	3000-3003,3300-3303	RN1/16SE1000D
	R	3004-3007,3304-3307	RN1/16SE4702D
	R	3008,3009,4928-4931	RS1/10SR75R0D

Mark	No.	Description	Part No.
	R	3010,3011,3312,3313	RS1/10SR1803D
	R	3014,3015	RS1/10SR7501D
	R	3016,3017,3032-3035	RN1/16SE4700D
	R	3018,3021,3028,3029	RN1/16SE2001D
	R	3022,3026,3030,3031	RN1/16SE1001D
	R	3024,3068,3324,3329	RN1/16SE4701D
	R	3037,3038,3343,3344	RN1/16SE3002D
	R	3040,3041,3351,3352	RN1/16SE2002D
	R	3045,3046,3356,3357	RN1/16SE1303D
	R	3052,3053,3358,3359	RS1/10SR3303D
	R	3060,3073,3074,3320	RN1/16SE4700D
	R	3066,3070-3072,3370	RN1/16SE2001D
	R	3076-3083,3380-3387	RN1/16SE1201D
	R	3084,3086,3088,3090	RN1/16SE2200D
	R	3085,3087,3089,3091	RN1/16SE4300D
	R	3092-3095,3396-3399	RN1/16SE6800D
	R	3096,3099,3100,3103	RN1/16SE3300D
	R	3097,3098,3101,3102	RN1/16SE1001D
	R	3108-3112	RN1/16SE4301D
	R	3321,3336-3339,3366	RN1/16SE4700D
	R	3322,3326,3327	RN1/16SE1001D
	R	3331-3335,3401,3402	RN1/16SE1001D
	R	3372,4904,4905,4909	RN1/16SE4701D
	R	3374-3376	RN1/16SE2001D
	R	3378,3379	RN1/16SE4700D
	R	3388,3390,3392,3394	RN1/16SE2200D
	R	3389,3391,3393,3395	RN1/16SE4300D
	R	3400,3403,3404,3407	RN1/16SE3300D
	R	3405,3406	RN1/16SE1001D
	R	4527	RS1/10SR1801F
	R	4528	RS1/10SR3901F
	R	4902,4903	RN1/16SE1002D
	R	4906,4908	RN1/16SE1501D
	R	4907	RN1/16SE3300D
	R	4910	RN1/16SE4701D
	R	4911,4913	RN1/16SE3900D
	R	4914	RN1/16SE2200D
	R	4924,4925	RN1/16SE2201D
	R	4926,4932	RN1/16SE1201D
	R	4927	RN1/16SE1500D
	R	4933,4934	RS1/10SR1803D
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	3000,3021,3023-3025	CKSRYB104K25
	C	3001,3002,4304-4307	CCSRCH221J50
	C	3003,3004,3007,3008	CCSRCH101J50
	C	3005,3006,4932,4933	CCSRCH331J50
	C	3009,3010	CEHAT471M6R3
	C	3011,3012,4921	CKSRYB471K50
	C	3013,3014	DCE1020
	C	3015,3016,4922,4923	CKSRYB474K10
	C	3017,3018	CKSRYB223K50
	C	3019,3020,3046,3047	CKSRYB472K50
	C	3022,3026,3056,3057	CEHAZL101M25
	C	3028,3037-3039,3050	CKSRYB104K25
	C	3029-3032,3034,3035	CFTYA334J50
	C	3036,3333	CEHAZL100M50
	C	3042,3043,3343,3344	CKSRYB103K50
	C	3044,3045,3341,3342	CCSRCH222J50

Mark	No.	Description	Part No.
	C	3048,3345	CEHAZL331M6R3
	C	3049,3055,3346,3350	CEHAZL101M10
	C	3051,3054,3352,3354	CEHAZL220M50
	C	3052,3053,3058-3061	CKSRYB104K25
	C	3062-3065,3361-3364	CCSRCH102J50
	C	3070,3071,3300,3321	CKSRYB104K25
	C	3301-3304,3306-3309	CCSRCH101J50
	C	3305,3310	CFTLA104J50
	C	3317-3320,3347,3348	CKSRYB472K50
	C	3322,3326,3355,3356	CEHAZL101M25
	C	3323-3325,3336-3338	CKSRYB104K25
	C	3328,3329,3331,3332	CFTYA334J50
	C	3334,3335	CFTYA334J50
	C	3349,3351,3353	CKSRYB104K25
	C	3357-3360,3365,3366	CKSRYB104K25
	C	4308-4311,4514,4919	CKSRYB103K50
	C	4312-4315	CCSRCH220J50
	C	4316,4318,4320,4322	CKSRYB104K25
	C	4317,4319,4321,4323	CCSRCH470J50
	C	4362-4368,4370,4371	CKSRYB104K25
	C	4369,4372	CEHAT101M25
	C	4373,4377,4378,4380	CKSRYB104K25
	C	4374-4376,4379,4381	CEAT470M25
	C	4512,4909,4910,4913	CKSRYB104K25
	C	4513	CEAT101M10
	C	4906,4908	CCSRCH471J50
	C	4907	CKSRYB331K50
	C	4911	CEJQNP100M35
	C	4912,4914,4916	CEAT100M50
	C	4915,4918,4924,4925	CKSRYB104K25
	C	4917	CEJQ100M35
	C	4920	CKSRYB103K50
	C	4926-4931	CKSRYB474K10
	C	4934	CKSRYB104K25
	C	4935-4938,4943-4946	CEANP330M16
	C	4947	CKSRYB105K16
	C	4950-4953	CCSRCH101J50

B MCJK ASSY

SEMICONDUCTORS

	D	2201-2204	RKZ15KG(B2)

MISCELLANEOUS

	JA	2200 CANON CONNECTOR	DKB1108
	CN	2200 PLUG	CKS3153
		0 MIC SHIELD	DNF1849

RESISTORS

	R	2201-2204	RN1/16SE1000D

CAPACITORS

	C	2201-2206	CCSRCH102J50
	C	2207,2208	CFTLA103J50

C TRIM1 ASSY

MISCELLANEOUS

	VR	2221 POTENTIOMETER	DCS1119
	CN	2221 11P SOCKET	XKP3076

Mark	No.	Description	Part No.
CAPACITORS			
	C	2221	CKSRYB104K25

D TRIM2 ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
	VR	2241 POTENTIOMETER	DCS1119
	CN	2241 11P SOCKET	XKP3076
CAPACITORS			
	C	2241	CKSRYB104K25

E TRIM3 ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
	VR	2261 POTENTIOMETER	DCS1119
	CN	2261 11P SOCKET	XKP3076
CAPACITORS			
	C	2261	CKSRYB104K25

F TRIM4 ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
	VR	2281 POTENTIOMETER	DCS1119
	CN	2281 11P SOCKET	XKP3076
CAPACITORS			
	C	2281	CKSRYB104K25

G AIN2 ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC	3600,3601,3603-3605	NJM4580MD
	IC	3602,3903	CS5381-KZ
	IC	3606,3907	RNB4580F
	IC	3900,3901,3904-3906	NJM4580MD
	IC	3902	TC74VHC74FTS1
	Q	3600,3603,3604,3607	KTC801U
	Q	3601,3602,3605,3606	2SK3320
	Q	3608,3609,3614,3910	RT1N241M
	Q	3610-3613,3615	KTC801U
	Q	3616,3617,3900,3901	2SK3320
	Q	3618-3620,3902	KTC801U
	Q	3903,3904,3912,3913	2SK3320
	Q	3905-3909,3911	KTC801U
	Q	3914-3916	KTC801U
	D	3600	RKZ5.6KG(B2)
	D	3601,3602,3900,3901	1SS355
	D	3603-3606,3902-3905	RB706D-40
	D	3607-3612,3906-3909	HZU3R0(B1)
MISCELLANEOUS			
	L	3600,3601 FERRITE CORE	VTF1093
	JA	3600,3900 JACK	DKB1083
	JA	3601 JACK	RKN1004
	KN	4200,4201 WRAPPING TERMINAL	VNF1084
	RY	3600,3900 RELAY	VSR1008
	S	3600,3900 SLIDE SWITCH	DSH1025
	CN	3600,3900 11P PLUG	XKP3065
	CN	4200 21P CONNECTOR	21P-1.25FJ
	CN	4201 CONNECTOR POST	S7B-EH

Mark	No.	Description	Part No.
RESISTORS			
	R	3600-3603,3900-3903	RN1/16SE1000D
	R	3604-3607,3904-3907	RN1/16SE4702D
	R	3610-3613,3910,3911	RS1/10SR1803D
	R	3614-3617,3661	RN1/16SE4301D
	R	3620,3621,3636-3639	RN1/16SE4700D
	R	3622,3626,3627	RN1/16SE1001D
	R	3624,3629,3672,3924	RN1/16SE4701D
	R	3631-3635,3701,3702	RN1/16SE1001D
	R	3643,3644,3937,3938	RN1/16SE3002D
	R	3651,3652,3940,3941	RN1/16SE2002D
	R	3656,3657,3945,3946	RN1/16SE1303D
	R	3658,3659,3952,3953	RS1/10SR3303D
	R	3666,3678,3679,3916	RN1/16SE4700D
	R	3670,3674-3676,3918	RN1/16SE2001D
	R	3680-3687,3976-3983	RN1/16SE1201D
	R	3688,3690,3692,3694	RN1/16SE2200D
	R	3689,3691,3693,3695	RN1/16SE4300D
	R	3696-3699,3992-3995	RN1/16SE6800D
	R	3700,3703,3704,3707	RN1/16SE3300D
	R	3705,3706,3922,3926	RN1/16SE1001D
	R	3908,3909	RS1/10SR75R0D
	R	3914,3915	RS1/10SR7501D
	R	3917,3932-3935,3960	RN1/16SE4700D
	R	3921,3928,3929,3966	RN1/16SE2001D
	R	3927,4010	RN1/16SE2201D
	R	3930,3931,3997,3998	RN1/16SE1001D
	R	3968	RN1/16SE4701D
	R	3970-3972	RN1/16SE2001D
	R	3973,3974	RN1/16SE4700D
	R	3984,3986,3988,3990	RN1/16SE2200D
	R	3985,3987,3989,3991	RN1/16SE4300D
	R	3996,3999,4000,4003	RN1/16SE3300D
	R	4001,4002	RN1/16SE1001D
	R	4008,4009	RN1/16SE1201D
		Other Resistors	RS1/10SR###J
CAPACITORS			
	C	3600,3900	CKSRYB104K50
	C	3601-3604,3606-3609	CCSRCH101J50
	C	3605,3610	CFTLA104J50
	C	3617-3620,3647,3648	CKSRYB472K50
	C	3621,3623-3625	CKSRYB104K25
	C	3622,3626,3655,3656	CEHAZL101M25
	C	3628,3629,3631,3632	CFTYA334J50
	C	3633,3936	CEHAZL100M50
	C	3634,3635,3929-3932	CFTYA334J50
	C	3636-3638,3649,3651	CKSRYB104K25
	C	3641,3642,3944,3945	CCSRCH222J50
	C	3643,3644,3942,3943	CKSRYB103K25
	C	3645,3948	CEHAZL331M6R3
	C	3646,3650,3949,3955	CEHAZL101M10
	C	3652,3654,3951,3954	CEHAZL220M50
	C	3653,3657-3660,3665	CKSRYB104K25
	C	3661-3664,3962-3965	CCSRCH102J50
	C	3666,3671,3921	CKSRYB104K25
	C	3672-3677,3973-3976	CKSRYB474K10
	C	3901,3902	CCSRCH221J50
	C	3903,3904,3907,3908	CCSRCH101J50
	C	3905,3906,4219,4220	CCSRCH331J50

Mark	No.	Description	Part No.
	C	3909,3910	CEHAT471M6R3
	C	3911,3912	CKSRYB471K50
	C	3917,3918	CKSRYB223K50
	C	3919,3920,3946,3947	CKSRYB472K50
	C	3922,3926,3956,3957	CEHAZL101M25
	C	3923-3925,3928	CKSRYB104K25
	C	3934,3935	CFTYA334J50
	C	3937-3939,3950,3952	CKSRYB104K25
	C	3953,3958-3961	CKSRYB104K25
	C	3970-3972,4202-4204	CKSRYB104K25
	C	4200,4201,4205,4211	CEAT470M25
	C	4206,4210	CEHAT101M25
	C	4207-4209,4215,4221	CKSRYB104K25
	C	4216	CEAT470M25
	C	4217,4218	DCE1020
	C	4222-4229	CEANP330M16
	C	4230-4233	CCSRCH101J50

H PCIF ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	2001	TC7S04FU
	IC	2002	TUSB3200ACPAH
	IC	2005	TC7SHU04FUS1
	IC	2006	TC74LCX32FTS1
	IC	2007,2018	TC7SH04FUS1
	IC	2008	TC74VHC08FTS1
	IC	2009	RTL8201CP-LF
	IC	2010	PSB6970HL
	IC	2011	TC7SH32FUS1
	IC	2012,2013	TC74LCX541FTS1
	IC	2014,2015	TC7SH08FUS1
	IC	2016,2017	TC7W53FU
⚠	IC	2019	PQ200WNA1ZPH
	Q	2001	RT1N241M
	Q	2002	UM6K1N
	Q	2003,2004	2SA2060
	D	2001	NNCD6.2MF
	D	2003	RKZ5.6KG(B2)
	D	2004,2005	1SS355

MISCELLANEOUS

Mark	No.	Description	Part No.
	L	2001,2002 CHIP SOLID INDUCTOR	QTL1013
	L	2003 COIL	ATH7015
	L	2004 CHIP SOLID INDUCTOR	QTL1013
	L	2011-2013 INDUCTOR	CTF1394
	F	2001 EMI FILTER	DTL1106
	F	2003 EMI FILTER	CCG1160
	JA	2001 USB CONNECTOR	DKN1237
	JA	2002 CONNECTOR	DKN1188
	JA	2009-2011 RJ45 CONNECTOR 2*1	DKN1572
	KN	2001-2003 WRAPPING TERMINAL	VNF1084
	X	2001 CRYSTAL RESONATOR (6 MHz)	DSS1206
	X	2002 CRYSTAL RESONATOR (25 MHz)	DSS1207
	CN	2001,2002 26P CONNECTOR	VKN1430
	0	SHIELD CASE(MIDI)	DNH2736

RESISTORS

Mark	No.	Description	Part No.
	R	2006,2007	RD1/2VM221J
	R	2016-2019,2030-2033	RS1/16SS0R0J
	R	2020-2029,2148,2223	RS1/8SQ0R0J
	R	2056	RS1/10SR3301D
	R	2062-2085	RS1/10SR49R9F
	R	2096-2111	RS1/16SS0R0J
	R	2136	RAB4CQ330J
	R	2139,2208,2209	RAB4CQ121J
	R	2187	RS1/10SR1200D
	R	2189	RN1/16SC10R0D
	R	2217-2219	RS1/4SA0R0J
	R	2221	RS1/10SR3900D
	R	2222	RS1/10SR1801D
	Other Resistors		RS1/10SR###J

CAPACITORS

Mark	No.	Description	Part No.
	C	2001,2003,2007,2010	CKSRYB104K25
	C	2002,2009,2021,2065	CEAT101M10
	C	2004,2011,2025,2057	CKSRYB471K50
	C	2005	CFTLA103J50
	C	2013,2020,2044-2053	CKSRYB103K50
	C	2017,2022,2023,2027	CKSRYB104K25
	C	2018,2019	CCSRCH470J50
	C	2024	CCSRCH101J50
	C	2026,2056	CKSRYB102K16
	C	2028,2031,2034,2042	CKSRYB104K25
	C	2029,2036	CCSRCH270J50
	C	2032,2093	CKSRYB105K16
	C	2033	DCH1201
	C	2037,2073,2103,2105	CEAT470M25
	C	2043,2054,2055	CKSRYB104K25
	C	2058,2062	CKSRYB471K50
	C	2059-2061,2063,2068	CKSRYB104K25
	C	2067	CEAT101M10
	C	2072	CCSRCH180J50
	C	2074,2077,2079-2090	CKSRYB104K25
	C	2075,2129	CEAT221M10
	C	2076,2091,2094	CCSRCH102J50
	C	2078	CCSRCH200J50
	C	2092,2095,2098-2102	CKSRYB104K25
	C	2096,2126,2127	CEHAT101M10
	C	2104	CKSRYB103K50
	C	2108,2109,2115	CEAT470M25
	C	2111-2114,2116-2119	CKSRYB104K25
	C	2120,2121	CEHAT221M10
	C	2124,2125,2132-2139	CKSRYB104K25
	C	2142-2147	CKSRYB104K25

I MAIN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	1001	NJM2846DL3-33
⚠	IC	1002	S-1170B25UC-OTK
⚠	IC	1003-1005	BD9326EFJ
	IC	1007-1010,1103	TC7SH08FUS1
	IC	1101	TC7SHU04FUS1
	IC	1102	BU4230G
	IC	1105	DYW1822
	IC	1106-1114,1602,1805	TC7SH08FUS1
	IC	1115	TC74VHC4052AFK
	IC	1201	XC3S50A-4FTG256C
	IC	1302,1451	D610A003BPYPA225
	IC	1303,1452,1701,1702	M12L128168A-5TG2N
	IC	1304	DYW1824

Mark	No.	Description	Part No.
	IC	1601	R5S77641N300BG
NSP	IC	1703	DYW1825
	IC	1801-1804	DIR9001PW
	IC	1806,1819-1821	TC7SH08FUS1
	IC	1807-1810	TC74LCX157FK
	IC	1811,1813,1815,1817	CS8421-CZ
	IC	1812,1814,1816,1818	TC7WH157FK
	IC	1901-1904,1914-1919	TC7SH08FUS1
	IC	1907,1908,1910,1911	CS8421-CZ
	IC	1909	TC7W53FU
	IC	1912	AK4114VQ
	Q	1001,1006	RT1N241M
	Q	1002-1004	2SA1576A
	Q	1005,1101	RT1P241M-11
	Q	1901-1903,1905	LTC024EEB
	Q	1904	HN1C01FU
⚠	D	1004-1006	RSX201L-30
	D	1009,1010	1SS355
	D	1011	UDZS3R3(B)
	D	1101-1106,1454-1461	DA2J101

MISCELLANEOUS

	L	1001 INDUCTOR	CTH1253
	L	1101 CHIP COIL	LCTAW330J2520
	L	1607,1608 INDUCTOR	CTF1394
	L	1610 INDUCTOR	CTH1255
	L	1611 POWER INDUCTOR	DTH1205
	F	1301,1451 COIL	RTF1189
	F	1601,1602 EMI FILTER	CCG1160
	KN	1001-1006 WRAPPING TERMINAL	CKF1089
	X	1101 RESONATOR (20 MHz)	CSS1795
	X	1102 CRYSTAL OSCILLATOR (24 MHz)	ASS7102
	CN	1002 12P CONNECTOR	VKN1416
	CN	1101 32P CONNECTOR	VKN1436
	CN	1103,1601,1602 26P CONNECTOR	VKN1430
	CN	1104-1106 20P CONNECTOR	VKN1424
	CN	1605 16P CONNECTOR	VKN1420
NSP		0 ID LABEL ASSY	AXW7015

RESISTORS

	R	1001,1023,1057,1101	RS1/8SQ0R0J
	R	1005	RS1/10SR9102D
	R	1006	RS1/10SR2202D
	R	1007	RS1/10SR2702D
	R	1008	RS1/10SR3901F
	R	1009	RS1/10SR2402F
	R	1010,1016	RS1/10SR1002F
	R	1011	RS1/10SR4701F
	R	1012	RS1/10SR3302F
	R	1013	RS1/10SR8201F
	R	1014	RS1/10SR1501F
	R	1015	RS1/10SR2201F
	R	1029-1033	RS1/4SA0R0J
	R	1081-1084	RAB4CQ470J
	R	1115,1118,1148,1159	RS1/8SQ0R0J
	R	1136,1141,1158	RAB4CQ220J
	R	1157,2157-2159	RAB4CQ151J
	R	1212,1310,1318,1341	RS1/8SQ0R0J
	R	1233,1238-1240	RAB4CQ121J
	R	1234-1237,1500,1504	RAB4CQ330J
	R	1249,1250	RAB4CQ101J
	R	1259-1262	RAB4CQ0R0J
	R	1327,1329,1333,1336	RAB4CQ100J
	R	1469,1474,1516,1734	RS1/8SQ0R0J
	R	1508,1511	RAB4CQ330J
	R	1630	RS1/10SR5601F
	R	1760,2149-2156,2165	RS1/16SS0R0J
	R	1762-1768,2166-2169	RS1/16SS151J
	R	1790,1816-1819	RS1/10SR6800D
	R	1808-1815,1924	RS1/10SR1002D
	R	1857,1863,1869,1875	RN1/16SE2001D
	R	1858,1864,1870,1876	RN1/16SE6202D
	R	1925	RN1/16SE3901D
	R	1928,1931,1937,1962	RN1/16SE2001D
	R	1929,1963	RN1/16SE6202D
	R	1932,1934,1938	RN1/16SE1602D
	R	1958	RN1/16SE1802D
	R	1976	RS1/8SQ0R0J
	R	2082-2096,2098	RS1/16SS330J
	R	2161-2163	RS1/16SS472J
	R	2173	RS1/16SS0R0J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	1001,1021-1023	DCH1165
	C	1002,1018-1020,1031	CKSSYB104K16
	C	1003,1011,1012,1014	CKSSYB104K10
	C	1004,1043-1045,1072	DCH1201
	C	1010,1013,1052,1054	CEVW101M16
	C	1028-1030,1040-1042	CKSRYB104K25
	C	1032,1034	CCSRCH222J50
	C	1033,1035,1053,1055	CKSSYB104K16
	C	1036	CCSRCH102J50
	C	1046-1048,1068-1070	CKSSYB104K10
	C	1073,1075,1302,1360	DCH1201
	C	1076,1716	CKSSYB104K16
	C	1077-1079,1103,1107	CKSSYB104K10
	C	1101,1113,1129,1132	CEVW101M16
	C	1102,1109	CKSRYB105K10
	C	1104,1105	CCSSCH100D50
	C	1106	CKSSYB152K50
	C	1108,1223,1358,1647	CKSSYB103K16
	C	1110,1112,1115	CKSSYB104K10
	C	1116,1946,9003	CCSSCH102J50
	C	1117-1120,1130,1131	CKSSYB104K10
	C	1121-1127,1943	CKSSYB471K50
	C	1135-1142,1201	CKSSYB104K10
	C	1202,1305,1321,1455	CEVW101M16
	C	1203-1222,1301,1303	CKSSYB104K10
	C	1304,1306-1317,1319	CKSSYB104K10
	C	1320,1322-1357	CKSSYB104K10
	C	1361-1367,1451,1453	CKSSYB104K10
	C	1368,1452,1509,1702	DCH1201
	C	1454,1456-1469	CKSSYB104K10
	C	1470,1684,1711-1713	CEVW101M16
	C	1471-1506,1510-1515	CKSSYB104K10
	C	1614-1646,1648-1653	CKSSYB104K10
	C	1655,1657,1659-1683	CKSSYB104K10
	C	1685-1687,1703-1706	CKSSYB104K10
	C	1707,1801-1804,1823	DCH1201

Mark	No.	Description	Part No.
	C	1710,1811-1814	CKSSYB103K16
	C	1714,1805-1810,1815	CKSSYB104K10
	C	1715,1936	CEVW101M16
	C	1816,1818,1820,1822	CKSSYB472K25
	C	1817,1819,1821	CKSSYB104K10
	C	1824,1826,1828,1830	CKSSYB683K10
	C	1825,1827,1829	DCH1201
	C	1831-1834,1847-1861	CKSSYB104K10
	C	1839-1842,1862-1865	DCH1201
	C	1843-1846,1909,1910	CKSSYB103K16
	C	1901-1904,1911,1912	CKSSYB104K10
	C	1907,1908,1913,1920	DCH1201
	C	1914,1925,1927,1931	CKSSYB103K16
	C	1915,1916,1918,1919	CKSSYB104K10
	C	1921,1923,1924,1933	DCH1201
	C	1922,1926,1928,1932	CKSSYB104K10
	C	1934,1939-1942,1944	CKSSYB104K10
	C	1945,9005-9012	CKSSYB104K10
	C	1947	CKSSYB473K16
	C	9001,9004	CCSSCH101J50
	C	9014	CKSRYB474K16

J HAMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	103	NJM78M12FA
	IC	5604	AK4382AVT
	IC	5605,5606	NJM4580MD
	Q	5605,5607	2SC4081
	Q	5606,5608,5614,5615	2SA1576A
	Q	5609,5611	2SC3076
	Q	5610,5612	2SA1241
	Q	5613	INC2002AC1
	Q	5616	RT1N241M
	Q	5617	RT1P241M-11
	Q	5618	HN1A01FU
	Q	5620	LTC024EEB
	D	5602-5607	DA2J101
	D	5609	1SS355

MISCELLANEOUS

Mark	No.	Description	Part No.
	J	101 6P JUMPER WIRE	D20PYY0605E
	KN	101-104 EARTH TERMINAL	AKF7002
	RY	5601 RELAY	VSR1008
	CN	101 CONNECTOR	B6B-EH
	CN	102,103 PLUG(8P)	KM200NA8
	CN	104 CONNECTOR	B7B-EH
	CN	105 CONNECTOR	B7B-EH-K
	CN	106 CONNECTOR	B12B-EH
	CN	5601 12P CONNECTOR	VKN1416
	CN	5602 PLUG(4P)	KM200NA4
	JH	101 6P CABLE HOLDER	51048-0600
⚠	P	104 PROTECTOR(315MA)	AEK7003
⚠	P	107,109,114 PROTECTOR(400MA)	AEK7004
⚠	P	108,110,112 PROTECTOR(630MA)	AEK7006
⚠	P	111 PROTECTOR(500MA)	AEK7005

RESISTORS

Mark	No.	Description	Part No.
	R	5706-5709	RN1/16SE3901D
	R	5710-5713	RN1/16SE1502D
	R	5714-5717	RN1/16SE3301D
	R	5736,5737	RN1/16SE2201D
	R	5738,5740	RN1/16SE1201D
	R	5742,5744,5745,5747	RN1/16SE4701D
	R	5748-5751	RS1/10SR1001D
	R	5752-5755	RS1/10SR1801D
	R	5756-5759	RD1/2VM6R8J
	Other Resistors		RS1/10SR###J

CAPACITORS

Mark	No.	Description	Part No.
	C	101	CEAT471M16
	C	102,103,107,108	CEHAT101M25
	C	104,118,121,5605	CKSRYB104K16
	C	105,106,114,120	CKSRYB104K25
	C	111	CEAT470M25
	C	115,116,5622,5625	CEHAZL101M25
	C	117	CEAT221M10
	C	119,122	CEHAT101M25
	C	5604	CKSRYB103K50
	C	5606	CKSRYB104K16
	C	5607	CEAT100M50
	C	5608,5609	CCSRCH681J50
	C	5610-5613	CCSRCH101J50
	C	5616,5617,5623,5624	CKSRYB104K25
	C	5618,5619	CEHAZL101M10
	C	5620,5621	CCSRCH222J50
	C	5632,5633	DCH1165

K HREG ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	104	NJM79M09FA
⚠	IC	105	NJM78M09FA
	D	5801,5802	RB501VM-40

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN	110 6PJUMPER CONNECTOR	52151-0610

CAPACITORS

Mark	No.	Description	Part No.
	C	5801-5804	CKSRYB104K25

L HPJK ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	JA	6001 HEADPHONE JACK	DKN1622
	CN	6001 L-PLUG(4P)	KM200NA4L
	0	PHONE SHIELD	DNF1875

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10SR###J

CAPACITORS

Mark	No.	Description	Part No.
	C	6001,6002	CKSRYB104K16

M AOUT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	5001,5002,5004,5005	TC7SH08FUS1
	IC	5007,5008	TC7SH08FUS1
	IC	5010	AK4390EF
	IC	5011,5012,5203,5204	NJM4580MD
	IC	5201	AK4387ET
	IC	5202,5402,5403,5505	RNB4580F
	IC	5401	AK4384ET

Mark	No.	Description	Part No.
	IC	5404	AK5359ET
	IC	5501	AK4382AVT
	IC	5502,5506	NJM4565MD
	IC	5503,5504	NJM4580MD
	Q	5003-5005,5010,5011	HN1C01FU
	Q	5006-5009,5012-5015	2SK3320
	Q	5016,5017,5026-5029	HN1C01FU
	Q	5018,5020,5022,5024	2SA1312
	Q	5019,5021,5023,5025	2SA1162
	Q	5030,5032,5034,5036	2SA1312
	Q	5031,5033,5035,5037	2SA1162
	Q	5038,5041,5044,5047	2SC2712
	Q	5039,5042,5045,5048	2SC5868
	Q	5040,5043,5046,5049	2SA2090
	Q	5050	LTC024EEB
	Q	5051,5202,5205,5206	INC2002AC1
	Q	5052	HN1A01FU
	Q	5054,5056,5058,5060	2SA1576A
	Q	5055,5057,5059,5061	2SC4154
	Q	5201,5203,5204,5207	2SK209
	Q	5208,5403,5404	INC2002AC1
	Q	5401,5402	2SK209
	Q	5501-5508	INC2002AC1
	Q	5509	RT1N241M
	Q	5510	2SC4154
	Q	5511	2SA1576A
	Q	5512-5515	HN1C01FU
	Q	5516,5517	2SC5868
	D	5002-5009,5014-5021	1SS355
	D	5010-5013	DA2J101
	D	5100	HZU5R1(B1)
	D	5401	UDZS3R3(B)
	D	5402,5403	RB706F-40
	D	5405-5408	HZU3R0(B1)

MISCELLANEOUS

JA	5001,5002	CANON CONNECTOR	DKB1093
JA	5201	JACK	DKB1083
JA	5401	HEADPHONE JACK	XKB3066
JA	5402-5404	MIC JACK	DKN1614
JA	5501,5502	HEADPHONE JACK	DKN1622
KN	5001-5003	EARTH TERMINAL	AKF7002
RY	5001,5002	RELAY	VSR1008
S	5001	SLIDE SWITCH	DSH1063
CN	5001	20P CONNECTOR	VKN1424
CN	5002	CONNECTOR	B12B-EH
	0	PHONE SHIELD	DNF1875
	0	CANON SHIELD	DNF1789

RESISTORS

	R	5022,5035,5048,5053	RN1/16SE4700D
	R	5023-5030	RN1/16SE1301D
	R	5031-5034,5038,5041	RN1/16SE8201D
	R	5036,5037,5039,5040	RN1/16SE1101D
	R	5042,5043,5045,5046	RN1/16SE1101D
	R	5044,5047,5575-5582	RN1/16SE8201D
	R	5054-5057,5060-5063	RN1/16SE2201D
	R	5058,5251,5252	RN1/16SE4301D
	R	5059,5077,5079,5085	RN1/16SE4700D
	R	5068-5075	RN1/16SE2001D
	R	5076,5078,5261	RN1/16SE4701D
	R	5084,5086,5087	RN1/16SE6800D
	R	5088,5094,5095	RN1/16SE4700D
	R	5089-5093	RN1/16SE6800D
	R	5096,5098,5100,5102	RN1/16SE2701D
	R	5097,5099,5101,5103	RN1/16SE5102D
	R	5105,5107,5109,5111	RN1/16SE2200D
	R	5112-5115	RN1/16SC68R0D
	R	5116-5119	RN1/16SE2200D
	R	5120-5127	RD1/4MUF330J
	R	5128-5131	RD1/2VM220J
	R	5132-5134,5139	RN1/16SE3901D
	R	5135,5138,5140,5143	RN1/16SE1001D
	R	5136,5137,5141,5142	RN1/16SE1501D
	R	5144-5147,5185,5186	RN1/16SE3301D
	R	5208,5227	RS1/10SR5101D
	R	5209,5211,5228,5233	RS1/10SR4702D
	R	5210,5230	RS1/10SR4701D
	R	5212,5234,5518-5521	RS1/10SR4301D
	R	5213-5216	RN1/16SE1202D
	R	5217-5220	RN1/16SE1502D
	R	5223,5231,5232,5245	RD1/2VM331J
	R	5224,5225,5235,5236	RN1/16SE1002D
	R	5411,5412	RN1/16SE3602D
	R	5415,5416	RS1/10SR3901D
	R	5417,5418,5423,5424	RS1/10SR3302D
	R	5421,5422,5425,5427	RS1/10SR3301D
	R	5428,5429	RD1/2VM821J
	R	5508,5509,5641,5644	RN1/16SE1002D
	R	5510,5511,5514,5515	RN1/16SE3002D
	R	5512,5513,5642,5646	RN1/16SE7501D
	R	5516,5517,5643,5648	RN1/16SE5601D
	R	5522-5525,5532-5535	RN1/16SE2202D
	R	5526-5529	RS1/10SR4301D
	R	5530,5531,5536,5537	RN1/16SE5600D
	R	5538-5541	RS1/10SR5601D
	R	5546,5548,5550,5552	RN1/16SE1200D
	R	5567-5574	RN1/16SE1501D
	R	5596,5597	RS1/10SR2202D
	R	5599-5602	RS1/10SR3303D
	R	5627,5628	RN1/16SE3301D
	R	5645,5647,5656,5658	RN1/16SE3002D
	R	5649,5652,5655,5660	RN1/16SE1002D
	R	5650,5653,5657,5661	RN1/16SE7501D
	R	5651,5654,5659,5662	RN1/16SE5601D
	R	5663-5670	RN1/16SE3002D
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	5001,5007-5010,5012	CKSRYB104K16
	C	5002-5004,5043	CKSRYB104K25
	C	5005,5006,5025,5026	CEHAZL101M10
	C	5013,5015,5016	CKSRYB104K16
	C	5018,5191,5201,5401	CKSRYB103K50
	C	5019-5022,5106,5107	CKSRYB104K16
	C	5023,5024	CEHAZL220M50
	C	5027-5030,5415,5416	CCSQCH562J50
	C	5031-5034,5039-5042	CCSRCH181J50
	C	5035-5038	CKSRYB272K50
	C	5044,5048	CEHAZL331M25

Mark	No.	Description	Part No.
	C	5057,5084	DCH1343
	C	5045-5047,5058,5083	CKSRYB104K25
	C	5059-5062,5229,5230	CKSRYB473K50
	C	5063-5070,5211,5231	CKSRYB334K10
	C	5072,5074,5076,5078	CCSRCH120J50
	C	5079-5082	CCSRCH471J50
	C	5089	CEANP101M16
	C	5090,5092,5104,5105	CEAT470M25
	C	5091,5093,5516,5518	CEHAT101M25
	C	5094-5097,5236,5237	DCE1016
	C	5098,5099,5212-5215	CKSRYB104K25
	C	5100-5103	CCSRCH122J50
	C	5110,5111,5220-5222	CEANP100M35
	C	5190,5203,5204,5403	CKSRYB104K16
	C	5192,5193,5209,5210	CCSRCH101J50
	C	5194	CEHAZL100M50
	C	5202,5205,5241-5244	CEAT100M50
	C	5207,5227	CCSQCH472J50
	C	5208,5228	CCSRCH152J50
	C	5216,5217,5404,5405	CCSRCH101J50
	C	5218,5234	CCSRCH560J50
	C	5219,5235,5547	CKSRYB102K50
	C	5223,5225,5419,5420	CKSRYB104K25
	C	5224,5226	CCSRCH151J50
	C	5232,5233,5238,5437	CEANP100M35
	C	5239,5240,5441,5442	DCE1016
	C	5402,5407,5411,5412	CEAT100M50
	C	5408,5409	CCSRCH102J50
	C	5417,5418,5509,5510	CCSRCH182J50
	C	5421,5426	CKSRYB334K10
	C	5422-5424,5430,5433	CEAT100M50
	C	5425,5428,5515,5517	CKSRYB104K25
	C	5427,5429	CCSRCH820J50
	C	5431,5432	CKSRYB473K50
	C	5434,5439,5505,5541	CEAT100M50
	C	5435,5436,5440,5503	CKSRYB104K16
	C	5438	CEANP100M35
	C	5443,5501	CKSRYB103K50
	C	5511,5512,5565,5568	CCSRCH681J50
	C	5513,5514,5566,5569	CCSRCH121J50
	C	5519-5522,5525-5528	CCSRCH101J50
	C	5523,5524,5531,5532	CKSRYB104K25
	C	5529,5530,5533,5534	CEANP470M25
	C	5535-5538	DCE1016
	C	5542	CEAT100M50
	C	5543-5546	CKSRYB474K10
	C	5548-5556	CKSRYB104K16
	C	5557-5560	DCH1323
	C	5561-5563	CFTYA474J50
	C	5564,5567	CCSRCH182J50
	C	5570,5572	CKSRYB104K25
	C	5574-5577	CCSRCH121J50

N PNLE ASSY

SEMICONDUCTORS

	IC	7501	DYW1823
	IC	7503	TC74HC4052AF
	Q	7506-7512,7514-7518	LSCR523UB
	Q	7519,7521	RT1N431M
	Q	7520,7522	2SA2060
	Q	7523,7524	LSCR523UB
	D	7501-7506,7512,7513	DA2J101
	D	7515,7517,7519,7527	SLI-343Y8Y(KLM)
	D	7520-7522,7526	SLI-343U8R(HJK)
	D	7529,7571	SLI-343Y8Y(KLM)
	D	7530-7532	SLI-343U8R(HJK)
	D	7533,7534,7538,7541	DA2J101
	D	7542,7545-7547	DA2J101
	D	7553-7570,7572-7577	DA2J101

MISCELLANEOUS

	L	7501 CHIP COIL	LCTAW330J2520
	VR	7501,7502 POTENTIOMETER	DCS1106
	VR	7503,7504 VARIABLE RESISTOR	DCS1100
	VR	7505 ROTARY VR	DCS1086
	VR	7506-7509 VARIABLE RESISTOR	DCS1100
	VR	7543 VARIABLE RESISTOR	DCS1100
	S	7501 SLIDE SWITCH	DSH1066
	S	7502,7505,7506,7511 TACT SWITCH	DSG1079
	S	7509,7513 SLIDE SWITCH	DSH1058
	S	7512,7515-7518 TACT SWITCH	DSG1079
	S	7519,7520 LEVER SWITCH	DSK1026
	X	7501 CERAMIC RESONATOR (20 MHz)	DSS1180
	CN	7501,7502,7509 32P CONNECTOR	VKN1263
	CN	7503 19P CONNECTOR	VKN1250
	CN	7506 B TO W CONNECTOR	KM200NA3LY
	CN	7507 PLUG(3P)	KM200NA3LR
	CN	7508 L-PLUG(3P)	KM200NA3L

RESISTORS

	All Resistors		RS1/10SR###J

CAPACITORS

	C	7501,7504,7506-7509	CKSRYB104K16
	C	7502,7522	CEJQ101M10
	C	7503	CKSRYB103K50
	C	7505	CKSRYB105K10
	C	7510-7515,7525-7528	CKSRYB471K50
	C	7518,7521,7523,7524	CKSRYB104K16
	C	7519	CCG1251
	C	7529,7530,7535-7542	CKSRYB104K16
	C	7531-7534	CKSRYB471K50
	C	7543	CEAT471M6R3
	C	7544,7545	CKSRYB104K16

O CFD1 ASSY

MISCELLANEOUS

	VR	8011 SLIDE VR	DCV1027
	CN	8011 B TO W CONNECTOR	KM200NA3LY

P CFD2 ASSY

MISCELLANEOUS

	VR	8021 SLIDE VR	DCV1027
	CN	8021 PLUG(3P)	KM200NA3LR

Q CRFD ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	VR 8001	VARIABLE RESISTOR	DCV1006
	CN 8001	L-PLUG(3P)	KM200NA3L

R PNCE ASSY

SEMICONDUCTORS

	IC	7000,7001	TC74HC4052AF
	IC	7002	NJM2903M
	Q	7007-7016,7032-7034	LSCR523UB
	Q	7017,7019,7021,7023	RT1N431M
	Q	7018,7020,7022,7024	2SA2060
	Q	7025,7027,7035	RT1N431M
	Q	7026,7028,7036	2SA2060
	Q	7029	RT1P431M
	D	7008,7009,7023-7026	SLI-343U8R(HJK)
	D	7010-7013,7027-7030	SLI-343Y8Y(KLM)
	D	7014-7022,7031-7039	SLI-343M8G(GHJ)
	D	7040-7043,7057-7060	SLI-343U8R(HJK)
	D	7044-7047,7061-7064	SLI-343Y8Y(KLM)
	D	7048-7056,7065-7073	SLI-343M8G(GHJ)
	D	7074-7077,7091,7092	SLI-343U8R(HJK)
	D	7078-7081,7093-7096	SLI-343Y8Y(KLM)
	D	7082-7090,7097-7105	SLI-343M8G(GHJ)
	D	7106-7109,7111-7113	DA2J101
	D	7115,7116,7119,7120	DA2J101
	D	7122-7124,7129-7133	DA2J101
	D	7142-7152	SLI-343Y8Y(KLM)
	D	7153	SLI-343U8R(HJK)
	D	7154	SLR343EC4T(LMN)
	D	7155-7169	DA2J101
	D	7170-7176	SLR343WBD2PT(Z1)

MISCELLANEOUS

	VR	7000-7011 VARIABLE RESISTOR	DCS1100
	VR	7012 ROTARY VR	DCS1086
	VR	7013 VARIABLE RESISTOR	DCS1100
	S	7000 12MM GS ENCODER	DSX1064
	S	7002-7005,7007-7009 TACT SWITCH	DSG1079
	S	7010,7013,7019 LEVER SWITCH	DSK1026
	S	7012,7016,7018 TACT SWITCH	DSG1079
	S	7021-7039 TACT SWITCH	DSG1079
	CN	7000 25P CONNECTOR	VKN1256
	CN	7001,7002 32P CONNECTOR	VKN1263

RESISTORS

	All Resistors		RS1/10SR###J

CAPACITORS

	C	7000	CEAT471M6R3
	C	7001	CEJQ101M10
	C	7002,7003,7007-7012	CKSRYB104K16
	C	7004,7005	CKSRYB103K50
	C	7013-7018,7020,7021	CKSRYB471K50
	C	7019,7022,7024,7029	CKSRYB104K16
	C	7023,7025-7028	CKSRYB471K50
	C	7030-7032	CKSRYB471K50
	C	7033-7048	CKSRYB104K16

S PNRI ASSY

SEMICONDUCTORS

	Q	7800,7802,7803	LSCR523UB
	D	7802,7804,7805,7807	SLI-343Y8Y(KLM)
	D	7808,7810	SLI-343Y8Y(KLM)
	D	7811	SLR343WBD2PT(Z1)
	D	7814-7826,7828	DA2J101
	D	7827	SLI-343U8R(HJK)

MISCELLANEOUS

	VR	7800 ROTARY VR	DCS1086
	VR	7801,7803 POTENTIOMETER	DCS1106
	VR	7802 VARIABLE RESISTOR	DCS1100
	S	7800-7802 SLIDE SWITCH	DSH1058
	S	7803,7804,7807-7809 TACT SWITCH	DSG1079
	S	7805,7806,7810 SLIDE SWITCH	DSH1066
	CN	7801 25P CONNECTOR	VKN1256
	CN	7802 B TO W CONNECTOR	KM200NA3LY
	CN	7803 PLUG(3P)	KM200NA3LR

RESISTORS

	All Resistors		RS1/10SR###J

CAPACITORS

	C	7800,7803	CEJQ101M10
	C	7801,7802,7804-7809	CKSRYB104K16

T CFD3 ASSY

MISCELLANEOUS

	VR	8031 SLIDE VR	DCV1027
	CN	8031 B TO W CONNECTOR	KM200NA3LY

U CFD4 ASSY

MISCELLANEOUS

	VR	8041 SLIDE VR	DCV1027
	CN	8041 PLUG(3P)	KM200NA3LR

V TFTB ASSY

SEMICONDUCTORS

⚠	IC	2601	TK61222CQ6
	Q	2601	RSQ025P03
	D	2601	RB160M-60

MISCELLANEOUS

	L	2401 INDUCTOR	CTF1473
	L	2601 INDUCTOR	CTF1545
	L	2603 CHOKE COIL	CTH1435
	KN	2401-2404 WRAPPING TERMINAL	VNF1084
	CN	2401 26P CONNECTOR	VKN1430
	CN	2402 16P CONNECTOR	VKN1420
	CN	2403 CONNECTOR(9P)	DKN1624
	CN	2404 CONNECTOR	CKS5660
	CN	2601 CONNECTOR	CKS5561

RESISTORS

	R	2609	RS1/10SR6202D
	R	2613	RS1/10SR1004D
	R	2614	RS1/10SR8202D
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	2401,2402	CEVW101M16
	C	2403,2404,2406,2412	CKSRYB104K25
	C	2411	DCH1201

Mark	No.	Description	Part No.
	C	2601,2603,2605,2606	CCG1236
	C	2602,2609	CKSRYB104K25
	C	2604,2607,2608	CKSRYB105K16
	C	2610	CKSRYB474K10
	C	2611,2612	CCG1236

W TPRI ASSY

SEMICONDUCTORS

Q	8100,8101	2SC4154
D	8108,8112,8118	1SS355
D	8117	SLR343WBD2PT(Z1)
D	8123,8124	SLI-343URCW(RST)
D	8125,8126	SLR343BC4T(JKLM)
D	8129,8130	SML-012WT(UVWXY)

MISCELLANEOUS

S	8106,8110-8113 TACT SWITCH	DSG1079
CN	8100 12P CONNECTOR	VKN1272

RESISTORS

All Resistors	RS1/10SR###J

X TPLE ASSY

SEMICONDUCTORS

Q	8070	2SA1576A
D	8071,8072	SLI-343YYW(TUV)
D	8074,8075	1SS355
D	8076	SLR-343VC(NPQ)

MISCELLANEOUS

S	8070,8072,8074 TACT SWITCH	DSG1079
CN	8070 19P CONNECTOR	VKN1279
CN	8071 12P CONNECTOR	VKN1272

RESISTORS

All Resistors	RS1/10SR###J

Y POWER SUPPLY ASSY

There is no service parts.

Z ACSW ASSY

MISCELLANEOUS

⚠	S	1	SWITCH	DSA1036
⚠	CN	1	CONNECTOR2P	2-178496-4
		0	MASK	DEC3212
⚠		0	CONNECTOR ASS'Y	DKP3799

CAPACITORS

⚠	C	1	ACG7030