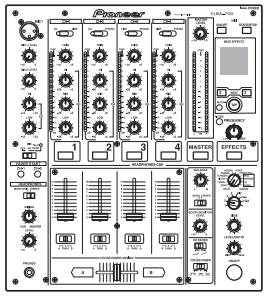
Pioneer sound.vision.soul

Service Manual



DJM-700-S

ORDER NO.
RRV3644

DJ MIXER

DJM-700-S
DJM-700-K

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

Model	Type	Power Requirement	Remarks
DJM-700-S	KUCXJ	AC 120 V	
DJM-700-K			
DJM-700-S	WYXJ5	AC 220 V to 240 V	
DJM-700-K			
DJM-700-S	RLXJ	AC 110 V to 120 V / AC 220 V to 240 V	
DJM-700-K			

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

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SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

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

Health & Safety Code Section 25249.6 - Proposition 65

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

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

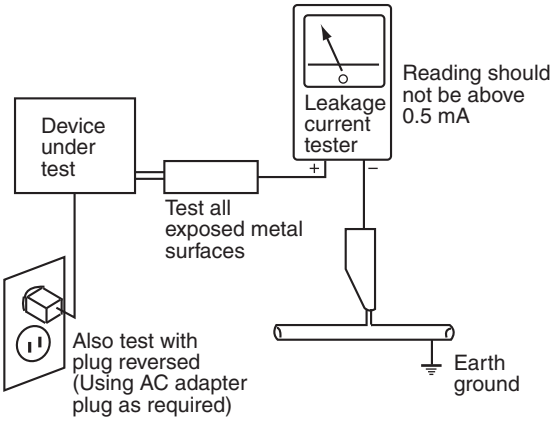
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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

[Important Check Points for Good Servicing]

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

1. Product safety

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

① Use specified parts for repair.

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

② Do not perform modifications without proper instructions.

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

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

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

④ Make sure the screws are tightly fastened.

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

⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

⑩ Safe environment should be secured during servicing.

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

2. Adjustments

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

3. Lubricants, Glues, and Replacement parts

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

4. Cleaning

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

5. Shipping mode and Shipping screws

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

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 °C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

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

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 ACCESSORIES

● Accessories

- Operating Instructions
  (KUCXJ: DRB1426)
  (WYXJ5: DRB1425)
  (RLXJ: DRB1427)
- Warranty Card

2.2 SPECIFICATIONS

1 General

Power source ..... AC 120 V, 60 Hz
Power consumption ..... 34 W
Operating temperature ..... +5 °C to +35 °C (+41 °F to +95 °F)
Operating humidity ..... 5 % to 85 % (without condensation)
Weight ..... 6.6 kg (14.6 lb)
Maximum dimensions
..... 320 mm (W) x 378.4 mm(D) x 107.9 mm (H)
12.6 in (W) x 15.3 in (D) x 4.3 in (H)

2 Audio section

Sampling rate ..... 96 kHz
A/D, D/A converter ..... 24 bits
Frequency response
LINE ..... 20 Hz to 20 kHz
MIC ..... 20 Hz to 20 kHz
PHONO ..... 20 Hz to 20 kHz (RIAA)
S/N ratio (at rated output)
LINE ..... 104 dB
PHONO ..... 94 dB
MIC ..... 82 dB
Distortion (LINE-MASTER 1) ..... 0.005 %
Standard input level/Input impedance
PHONO 2 to 4 ..... –52 dBu/47 kΩ
MIC 1 ..... –52 dBu/22 kΩ
LINE, LINE/CD 1 to 4 ..... –12 dBu/22 kΩ
RETURN ..... –16 dBu/47 kΩ
Standard output level/Load impedance/Output impedance
MASTER 1 ..... +8 dBu/10 kΩ/22 Ω or less
MASTER 2 ..... +2 dBu/10 kΩ/10 Ω
REC ..... –8 dBu/10 kΩ/10 Ω
BOOTH ..... +2 dBu/10 kΩ/22 Ω
SEND ..... –12 dBu/10 kΩ/1 kΩ
PHONES ..... +8.5 dBu/32 Ω/22 Ω or less
Rated output level/Load impedance
MASTER 1 ..... +25 dBu/10 kΩ
MASTER 2 ..... +20 dBu/10 kΩ
Crosstalk (LINE) ..... 80 dB
Channel equalizer response
HI ..... –26 dB to +6 dB (13 kHz)
MID ..... –26 dB to +6 dB (1 kHz)
LOW ..... –26 dB to +6 dB (70 Hz)
Microphone equalizer response
HI ..... –12 dB to +12 dB (10 kHz)
LOW ..... –12 dB to +12 dB (100 Hz)

3 Input/output connector systems

PHONO input connectors
RCA pin jacks 3
CD input connectors
RCA pin jacks 2
LINE input connectors
RCA pin jacks 3
MIC input connectors
XLR connector 1
Phone jack (Ø6.3 mm) 1
RETURN input connectors
Phone jacks (Ø6.3 mm) 1
MASTER output connectors
XLR connectors 1
RCA pin jacks 1
BOOTH output connectors
RCA pin jacks 1
REC output connectors
RCA pin jacks 1
SEND output connectors
Phone jacks (Ø6.3 mm) 1
DIGITAL coaxial output connector
RCA pin jack 1
MIDI OUT connector
5P DIN 1
PHONES output connector
Stereo phone jack (Ø6.3 mm) 1
CONTROL connector
Mini phone jacks (Ø3.5 mm) 2

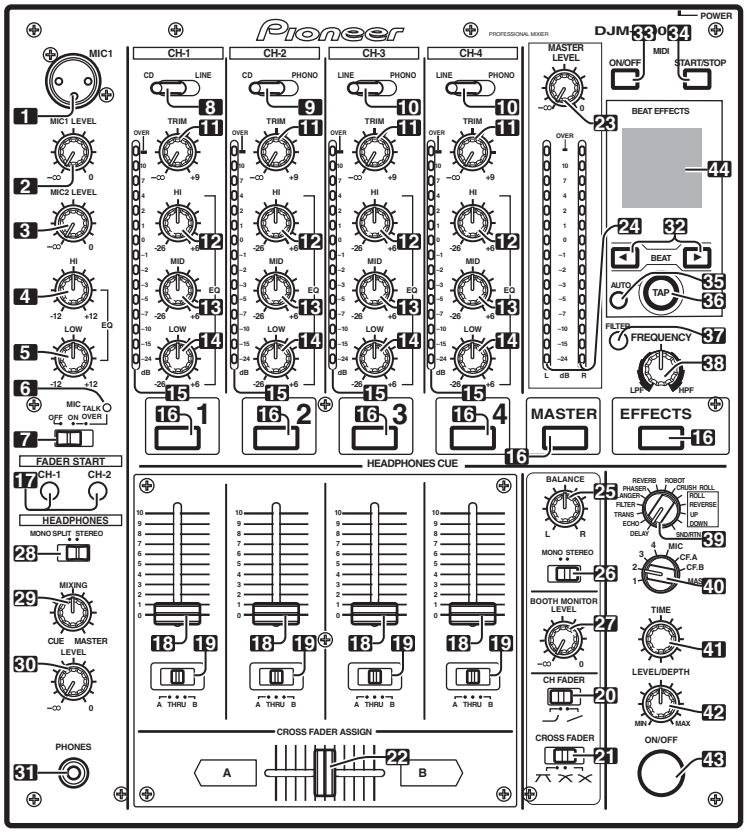
4 Accessories

Operating Instructions 1
Warranty card 1

Specifications and appearance are subject to change without notice.

2.3 PANEL FACILITIES

OPERATION PANEL



1 Microphone 1 input jack (MIC 1)
Connect microphone with XLR-type plug.

2 Microphone 1 level control dial (MIC 1 LEVEL)
Use to adjust the volume of microphone 1. (adjustable range –∞to 0 dB)

3 Microphone 2 level control dial (MIC 2 LEVEL)
Use to adjust the volume of microphone 2. (adjustable range –∞to 0 dB)

4 Microphone equalizer high-range control dial (HI)
Use to adjust the treble (high-range) frequencies of microphones 1 and 2. (adjustable range –12 dB to +12 dB)

5 Microphone equalizer low-range control dial (LOW)
Use to adjust the bass (low-range) frequencies of microphones 1 and 2. (adjustable range –12 dB to +12 dB)

6 Microphone function indicator
Lights when microphone is ON; flashes when **TALK OVER** is ON.

7 Microphone function selector switch (MIC)
OFF:
No microphone sound is output.
ON:
Microphone sound is output normally.
TALK OVER:
Microphone sound is output; when sound is input to a connected microphone, the TALK OVER function operates and all sound other than that from the microphone is attenuated by 20 dB.

- When not using the TALK OVER function, it is recommended to set the switch to the [**OFF**] or [**ON**] position.

8 Channel 1 input selector switch
CD:
Selects **CD** input (line level analog input).
LINE:
Use to select **LINE** input connectors.

9 Channel 2 input selector switch
CD:
Use to select **CD** input (line level analog input).
PHONO:
Use to select **PHONO** input connectors (analog turntable input).

10 Channel 3, 4 input selector switch
LINE:
Use to select **LINE** input (line level analog input).
PHONO:
Use to select **PHONO** input connectors (analog turntable input).

11 TRIM adjust dial
Use to adjust the input level for each channel. (adjustable range: –∞ to +9 dB, mid-position is about 0 dB)

12 Channel equalizer high-range adjust dial (HI)
Use to adjust the treble (high-range) frequency sound for each channel. (adjustable range: –26 dB to +6 dB)

13 Channel equalizer mid-range adjust dial (MID)
Use to adjust the mid-range frequency sound for each channel. (adjustable range: –26 dB to +6 dB)

14 Channel equalizer low-range adjust dial (LOW)
Use to adjust the bass (low-range) frequency sound for each channel. (adjustable range: –26 dB to +6 dB)

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

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

17 Fader start button/indicator (FADER START CH-1, CH-2)
Enables the fader start/back cue function for the channel to which a DJ CD player is connected. The button lights when set to ON. When enabled, the operation differs depending on the setting of the **CROSS FADER ASSIGN** switch.

- When the **CROSS FADER ASSIGN** switch is set to the [**A**] or [**B**] position, fader start button operation is linked to the operation of the cross fader (and unlinked to channel fader).
- When the **CROSS FADER ASSIGN** switch is set to the [**THRU**] position, fader start button operation is linked to the operation of the channel fader (and unlinked to cross fader).

18 Channel fader lever
Use to adjust sound volumes for each channel. (adjustable range: –∞ to 0 dB)
Output is in accordance with the channel fader curve selected with the **CH FADER** curve switch.

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

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

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

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

20 Channel fader curve switch (CH FADER)
This switch allows the user to select from two types of channel fader curve response. This setting is applied equally to channels 1 to 4.

- At the left setting, the curve operates to produce a rapid rise as the channel fader approaches its distant position.
- At the right setting, the curve operates to produce an even, neutral rise throughout the channel fader's movement.

21 Cross fader curve switch (CROSS FADER)
This switch allows the user to select from three types of cross fader curve response.

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

22 Cross fader lever
Outputs sound assigned to [**A**] and [**B**] sides in accordance with setting of the **CROSS FADER ASSIGN** switch, and subject to the cross fader curve selected with the **CROSS FADER** curve switch.

23 Master output level dial (MASTER LEVEL)
Use to adjust the master output level. (adjustable range: –∞ to 0 dB)
The master output is the sum combination of the sound from channels set to [**THRU**] with the **CROSS FADER ASSIGN** switch; the signal passed through the cross fader; and the signals from microphone 1 and microphone 2 (if the effect selector is set to [**SND/RTN**], the **RETURN** input is also added).

24 Master level indicator (MASTER L, R)
These segment indicators display the output level from L and R channels. The indicators have a two-second peak hold.

25 Master balance dial (BALANCE)
Use to adjust the L/R channel balance for master output, booth monitor output, recording output, and digital output.

26 Master output MONO/STEREO selector switch
When set to the [**MONO**] position, master output, booth monitor output, recording output, digital output are all produced in L+R monaural.

27 BOOTH MONITOR LEVEL control dial
This dial is used to adjust the booth monitor output volume. The volume can be adjusted independently of the master output level. (adjustable range: –∞ to 0 dB)

28 Headphones output switch (MONO SPLIT/STEREO)
MONO SPLIT:
When **HEADPHONES CUE** (**1**,**2**,**3**,**4** or **EFFECTS**) button is selected, the selected audio is output to the L channel. When **HEADPHONES CUE** (**MASTER**) button is selected, the master audio is output from the R channel.

STEREO:
The audio source selected with the **HEADPHONES CUE** button is output in stereo.

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

In the middle position, the audio from [**MASTER**] and [**CUE**] will be output.

30 Headphones level adjust dial (LEVEL)
Adjusts the output level of the headphones jack. (adjustable range: –∞ to 0 dB)

31 Headphones jack (PHONES)
Connect to headphones equipped with phone-type jack.

32 Beat select buttons (◄ BEAT ►)
► (Beat up):Doubles the calculated BPM.
◄ (Beat down):Halves the calculated BPM.

- Some effects can be set for **"3/4"**.

With some effects, these are used for functions other than setting the beat.

33 MIDI ON/OFF button
Sets MIDI output function (not including timing lock) to ON/OFF. When power is first turned ON, automatically defaults to OFF.

34 MIDI start/stop button (MIDI START/STOP)
Outputs START/STOP signal for MIDI control function.
When this control is enabled, the [**MIDI START (STOP)**] message appears for two seconds on the display.

MIDI SNAP SHOT:
When the **MIDI START/STOP** button is held depressed, a snapshot is sent to the external MIDI component.

35 BPM measuring mode button (AUTO)
Switches between the BPM measuring modes AUTO and TAP. When [**AUTO**] indicator on the display is lighted, the BPM will be measured automatically.

36 TAP button
The BPM is calculated from the intervals at which the **TAP** button is struck. If the **TAP** button is pressed in the AUTO mode, the mode automatically switches to the TAP mode (manual input).

37 MANUAL/EFFECT Frequency filter button
Use to switch between manual filter and effect frequency filter.
When power is first turned ON, defaults to effect frequency filter and the button indicator lights. When manual filter is selected, the button indicator does not light.

38 Manual filter adjust dial (FREQUENCY)
Use to adjust the cutoff frequency of the selected filter.

39 Effect selector (DELAY, ECHO, TRANS, FILTER, FLANGER, PHASER, REVERB, ROBOT (ROBOT VOCODER), CRUSH, ROLL, REVERSE (REVERSE ROLL), UP (UP ROLL), DOWN (DOWN ROLL), SND/RTN (SEND/RETURN))
Use to select desired type of effect.
When using an external effector connected to the **SEND** and **RETURN** connectors, set to the [**SND/RTN**] position.

40 Effect channel selector (1, 2, 3, 4, MIC, CF.A, CF.B, MASTER)
Use to select the channel to which effects are applied.
When [**MIC**] is selected, effects are applied to both microphone 1 and microphone 2.

41 Effect parameter 1 dial [TIME (PARAMETER 1)]
Adjusts time parameter for selected effect (With some effects, this is used for adjustments other than time parameters.)

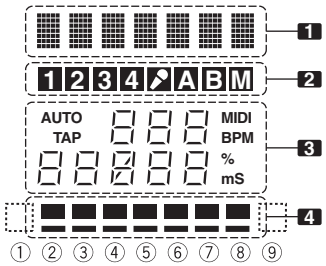
- If the **TIME** dial is rotated while depressing the **TAP** button, direct BPM can be set manually.
- If the **TIME** dial is rotated while holding the **TAP** button and **AUTO/TAP** buttons depressed, the BPM can be set in 0.1 units.

42 Effect parameter 2 dial [LEVEL/DEPTH (PARAMETER 2)]
Adjusts quantitative parameters for selected effect.

43 Effect button/indicator (ON/OFF)
Sets selected effect ON/OFF. When power is first turned ON, defaults to effect OFF. When set to effect OFF, the button indicator lights. When effects are enabled (ON), the button flashes.

44 Display

DISPLAY SECTION



1 Effects display section
Text display (7 characters) displays effect name as shown in accompanying table. Also, when one of the change operations is performed as noted in the table, the corresponding characters are displayed for two seconds, after which the display returns to the original effect name.

Switching Operation	Display
At MIDI start	START
At MIDI stop	STOP
MIDI snapshot	SNAP
When MIDI output function is ON	MIDI On
When MIDI output function is OFF	MIDIOff

2 Channel select display section
Lights position selected by effect channel selector.

3 Parameter display section
AUTO/TAP:
[**AUTO**] lights when the BPM measuring mode is set to AUTO, and [**TAP**] lights when the BPM measuring mode is set to manual (TAP).

BPM counter display (3 digits)**:**
In AUTO mode, displays the automatically detected BPM value. If the BPM count cannot be detected automatically, the display will flash at the previously detected value. In manual (TAP) mode, displays the BPM value designated by TAP input, etc.

BPM:
Lights constantly.

MIDI:
Indicates status of MIDI output function ON/OFF.

- Lights when MIDI output function is ON.
- Not lighted when MIDI output function is OFF.

Parameter 1 display (5 digits)**:**
Displays parameters designated for each effect. When the beat select buttons (**BEAT** ◄, ►) are pressed, the corresponding beat multiple change is displayed for two seconds. If the beat select buttons (**BEAT** ◄, ►) are used to designate a value outside the parameter range, the current number will flash but will not change.

Unit Display (%/ms):
Lights in accordance with the unit used for each effect.

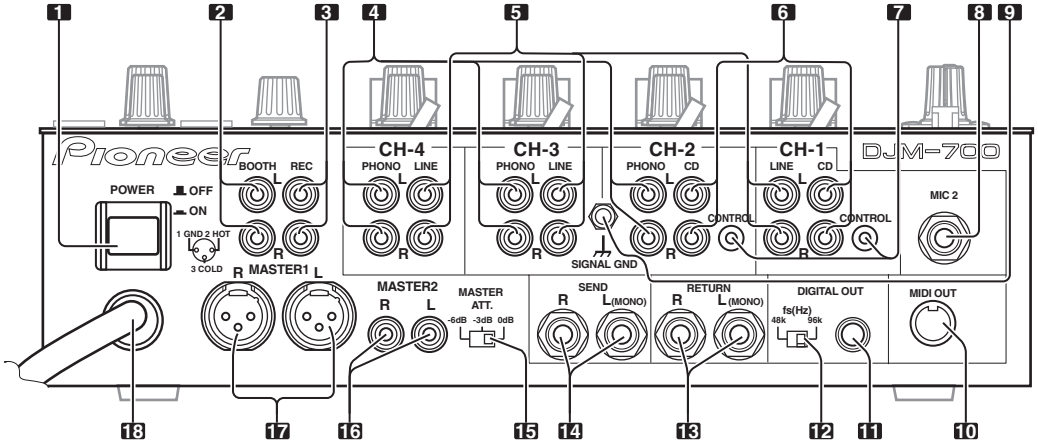
4 Beat display section

Displays the location of parameter 1 relative to BPM (1/1 beat). The lower row is lighted constantly. When the parameter 1 location approaches a threshold value, the corresponding indicator is lighted. When the parameter 1 is between threshold values, the indicator flashes. Although the display includes seven actual indicators, the values of the two ends can also be considered to represent indicators, with the result that nine positions can be logically assumed. When the values are at the two ends, no indicators light.

Effect selector	1 Effect display	3 Parameter display				4 Beat display								
	Effect name	Minimum value	Maximum value	Default	Unit	①	②	③	④	⑤	⑥	⑦	⑧	⑨
DELAY	DELAY	1	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1
ECHO	ECHO	1	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1
TRANS	TRANS	10	16 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
FILTER	FILTER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
FLANGER	FLANGER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
PHASER	PHASER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
REVERB	REVERB	1	100	50	%	10	20	30	40	50	60	70	80	90
ROBOT	ROBOT	-100	100	0	%	—	–100	–66	–50	0	26	50	100	—
CRUSH	CRUSH	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
ROLL	ROLL	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
REV ROLL	REVROLL	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
UP ROLL	UP ROLL	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
DOWN ROLL	DWNROLL	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
SND/RTN	SND/RTN													

Shaded items ▭ are not displayed.

CONNECTION PANEL



1 POWER switch

2 BOOTH monitor output connectors
RCA-type booth monitor output jack.
The sound level from these connectors is controlled independently by the **BOOTH MONITOR LEVEL** dial, regardless of the position of the **MASTER LEVEL** dial.

3 Recording output connectors (REC)
RCA type output connectors for recording.

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

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

6 CD input connectors
RCA type line level input connectors.
Use to connect a DJ CD player or other line level output component.

7 CONTROL connectors
Ø3.5 mm mini-connector. Use to connect to the control connector of a Pioneer DJ CD player.
When the connectors are connected, the DJM-700-S/DJM-700-K's fader can be used to perform start/stop on the DJ CD player.

8 Two microphone input jacks (MIC 2)
Connect microphones equipped with phone-type plugs.

9 Signal grounding terminals (SIGNAL GND)
Reduces noise when connecting an analog turntable.

10 MIDI OUT connector
DIN type output connector.
Use to connect to other MIDI component.

11 DIGITAL OUT connector
RCA type digital coaxial output connector.
Master audio digital output.

12 Sampling frequency selector switch (fs 48 k/96 k)
Use to set the sampling frequency of the digital output to 96 kHz/24-bit format or 48 kHz/24-bit format.

- Turn power off before changing this switch position.

13 RETURN connectors
Ø6.3 mm phone-type input connectors.
Use to connect to the output connectors of external effectors or similar components.
When the L channel only is connected, the L channel input is simultaneously input to the R channel.

14 SEND output connectors
Ø6.3 mm phone-type output connectors.
Use to connect to the input connectors of external effectors or other similar components. When the L channel only is connected, a L+R monaural signal is output.

15 Master output attenuator switch (MASTER ATT)
Use to attenuate the level of the master 1 and master 2 outputs. Attenuation can be set to 0 dB, –3 dB, or –6 dB.

16 MASTER 2 output connectors
RCA type unbalanced output.

17 MASTER 1 output connectors
XLR type (male) balanced output.

- When using a cord with RCA-type plug, users are recommended to connect the plug directly to the **MASTER 2** connectors without using an XLR/RCA converter plug.

18 Power cord
Connect to ordinary AC outlet.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

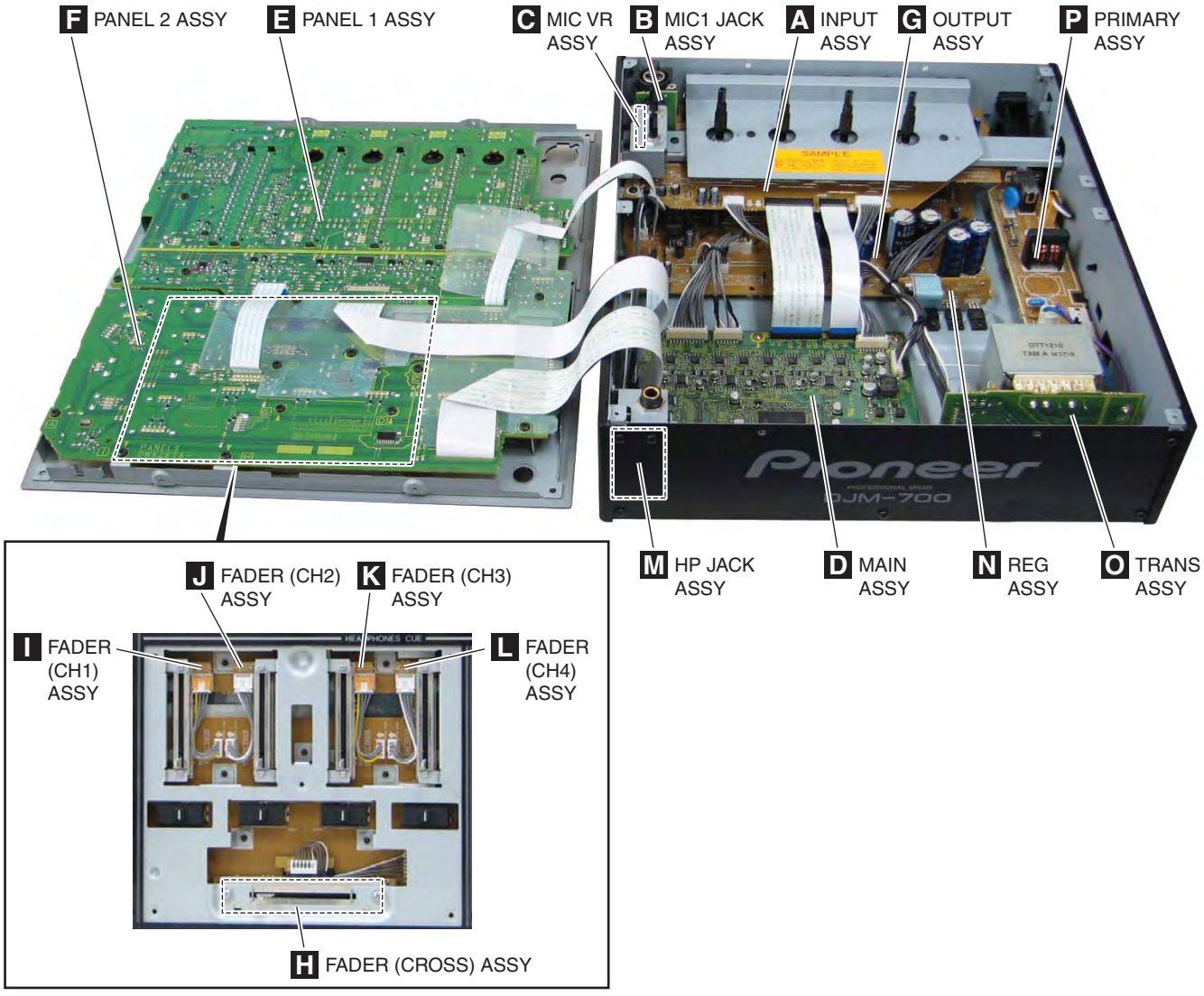
To ensure the quality of the product after repair, check the recommended items shown below:

No.	Procedures	Item to be checked
1	Check if all the symptoms pointed out by the customer have been addressed. If a symptom pointed out by the customer is attributable to a particular source, such as Mic, each Input, Fader, Equalizer, and Trim, input that particular source for checking.	The symptoms in question must not be reproduced. Audio and operations must be normal.
2	Check the analog audio inputs. (Make connections for analog audio signals with a CDJ player.)	Audio for each channel and operations must be normal.
3	Check Fader playback. (Select Fader and check the multichannel operations via the DSP.)	Audio for each channel and operations must be normal.
4	Check the master outputs. (Connect with a CDJ player.)	Audio and operations must be normal.
5	Check the audio from headphone output.	Audio must be normal, without noise.
6	Check the exterior section.	Check for any scratches or dirt that have been made or attached on the exterior section after receiving the product for repair.

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

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

3.2 PCB LOCATIONS



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.
	1	MAIN ASSY	DWX2674
NSP	1	INPL ASSY	DWM2309
	2	INPUT ASSY	DWX2675
	2	PANEL 2 ASSY	DWX2678
	2	MIC1 JACK ASSY	DWX2685
	2	MIC VR ASSY	DWX2686
NSP	1	PANL ASSY	DWM2311
	2	PANEL 1 ASSY	DWX2677
	2	FADER (CROSS) ASSY	DWX2680
	2	FADER (CH1) ASSY	DWX2681
	2	FADER (CH2) ASSY	DWX2682
	2	FADER (CH3) ASSY	DWX2683
	2	FADER (CH4) ASSY	DWX2684

Mark	No.	Description	Part No.
• For KUCXJ and WYXJ5 types			
NSP	1	OUPW ASSY	DWM2310
	2	OUTPUT ASSY	DWX2676
⚠	2	PRIMARY ASSY	DWX2687
	2	TRANS ASSY	DWX2688
	2	REG ASSY	DWX2689
	2	HP JACK ASSY	DWX2690
• For RLXJ type			
NSP	1	OUPW ASSY	DWM2315
	2	OUTPUT ASSY	DWX2676
⚠	2	PRIMARY ASSY	DWX2692
	2	TRANS ASSY	DWX2757
	2	REG ASSY	DWX2689
	2	HP JACK ASSY	DWX2690

3.3 JIGS LIST

■ Jigs list

Jig Name	Jig No.	Remarks
Dedicated cable	GGD1530	Used for connector conversion
Interface device	GGF1605	Used for firmware download

A

B

C

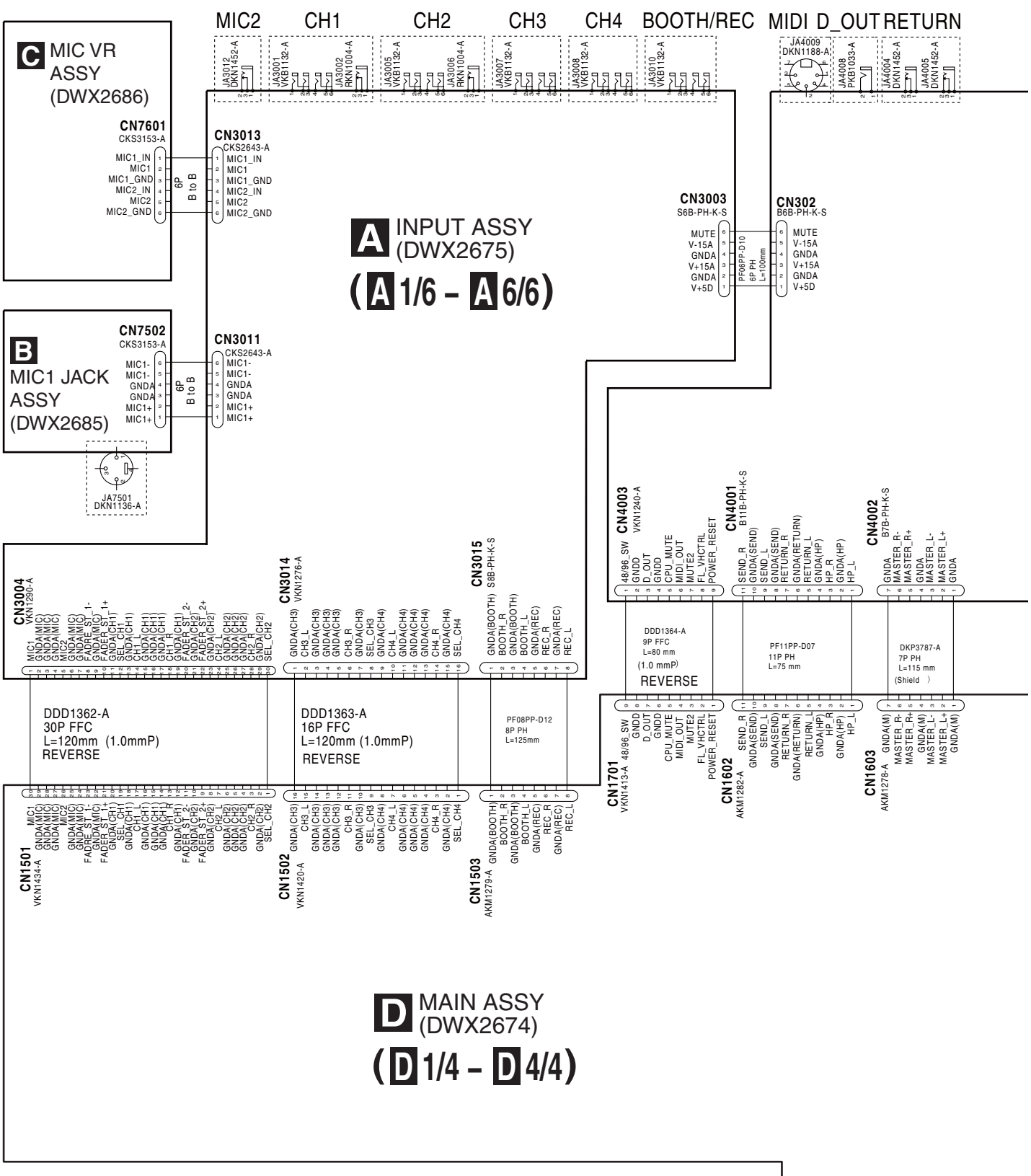
D

E

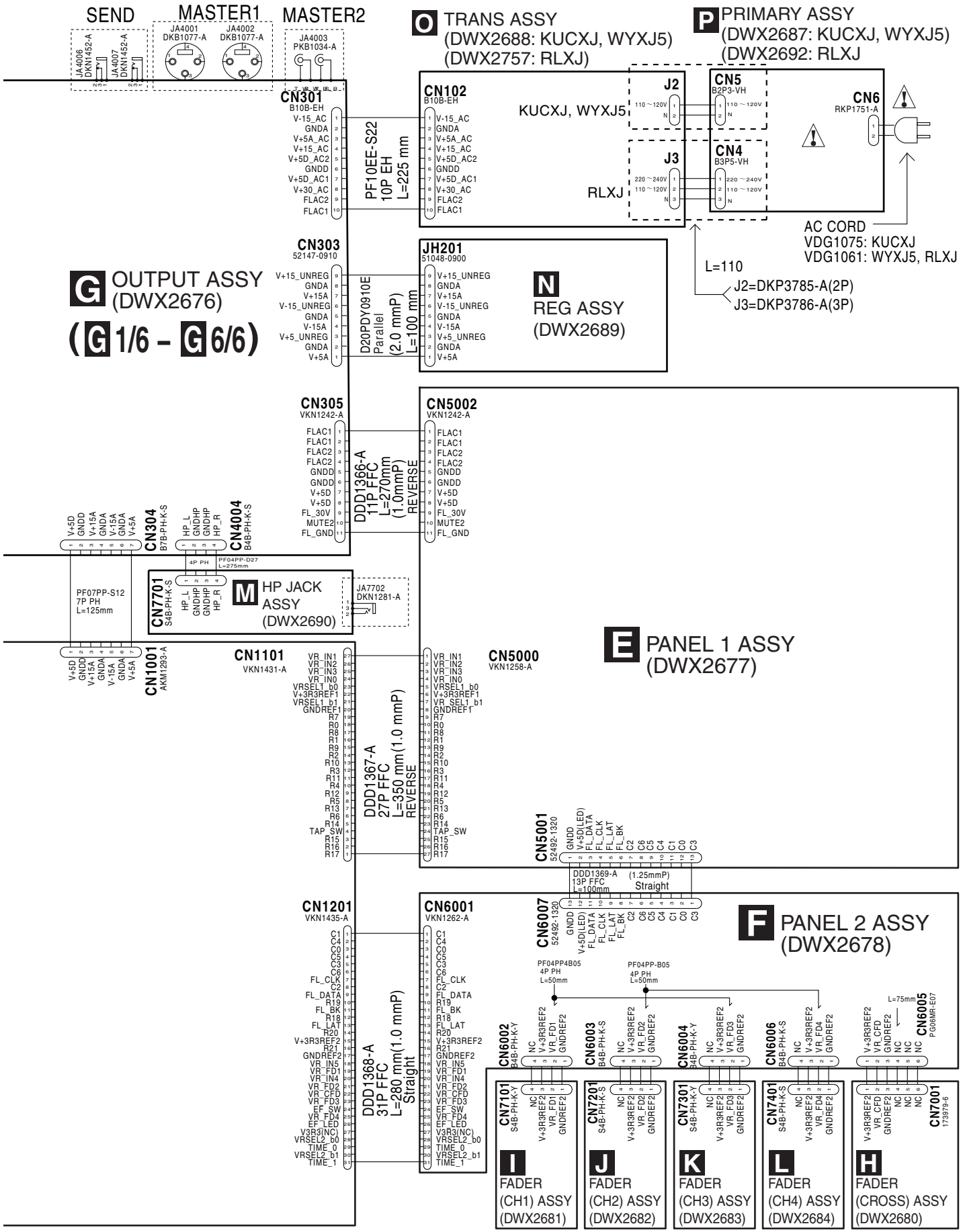
F

4. BLOCK DIAGRAM

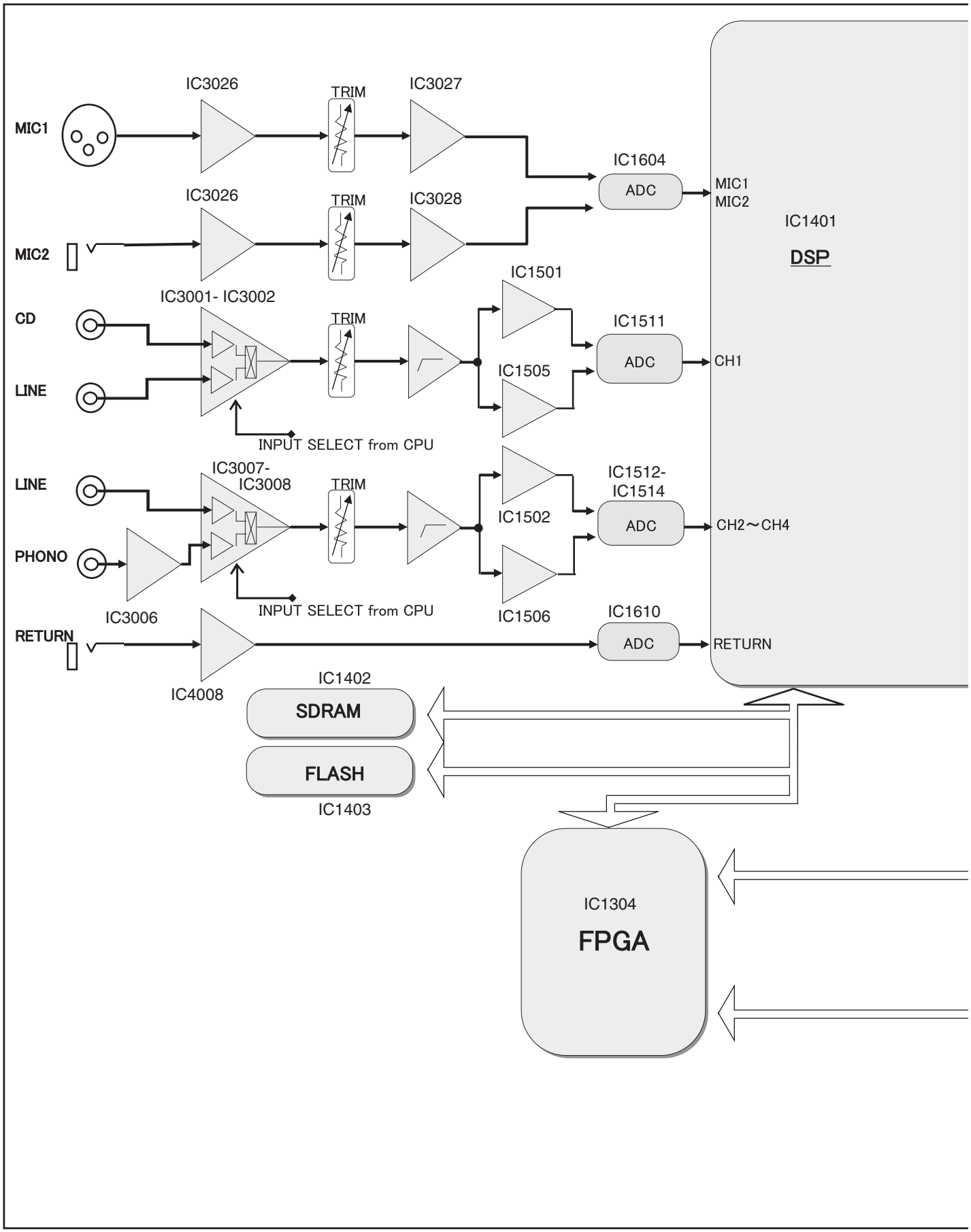
4.1 OVERALL WIRING DIAGRAM

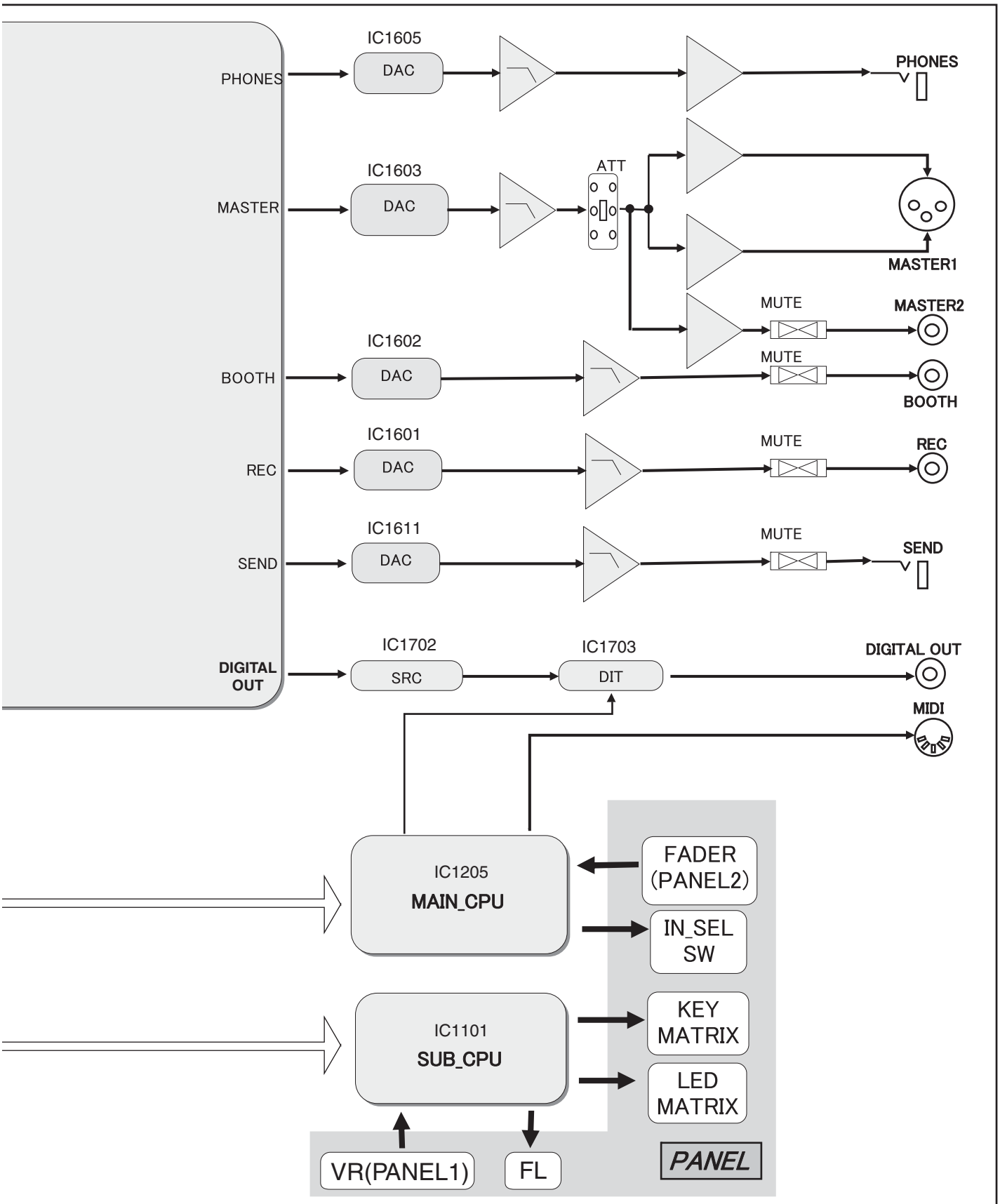


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply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

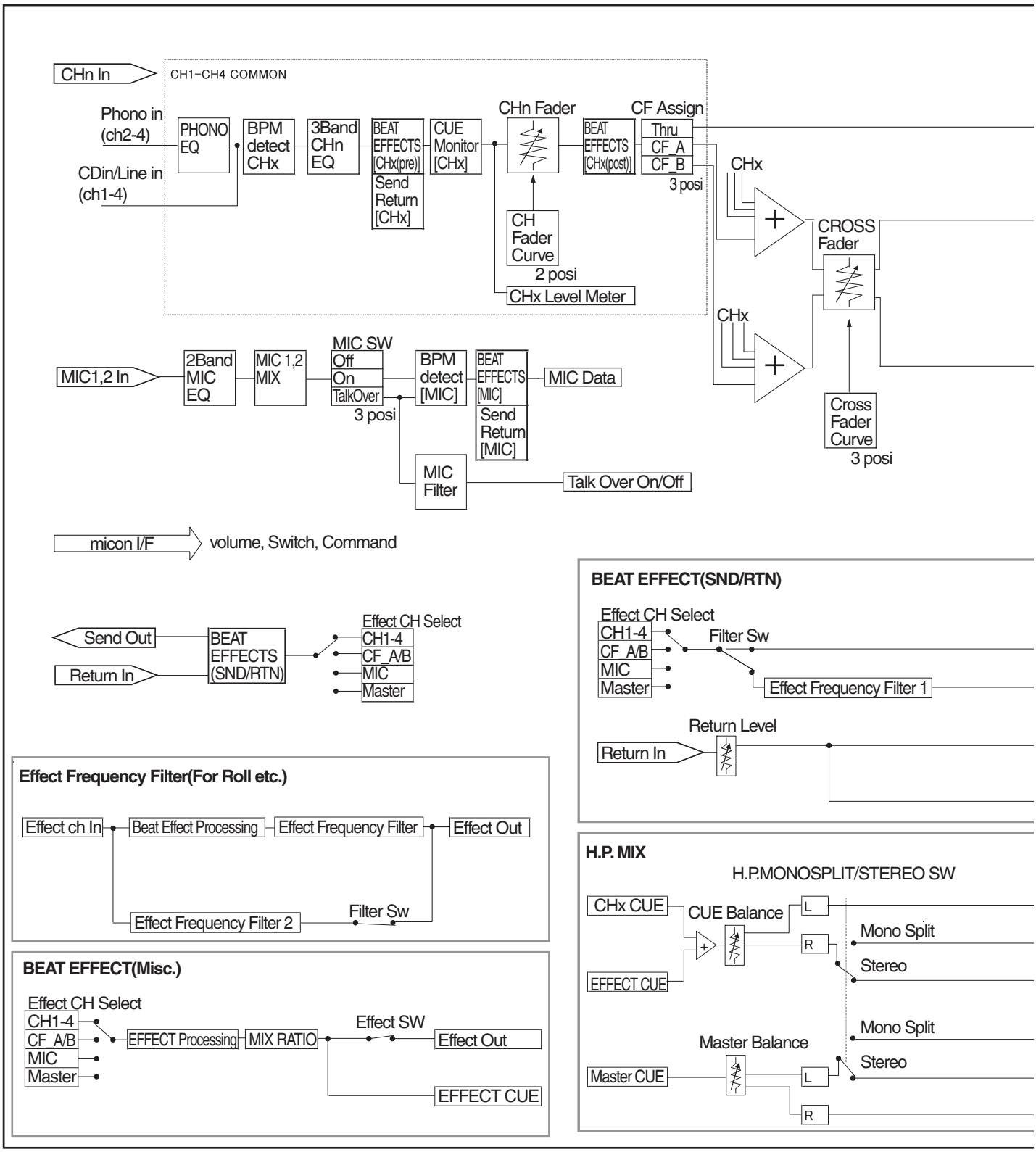

SEND
MASTER1
MASTER2
JA4006 DKN1452-A
JA4007 DKN1452-A
JA4001 DKB1077-A
JA4002 DKB1077-A
JA4003 PKB1034-A
O TRANS ASSY
(DWX2688: KUCXJ, WYXJ5)
(DWX2757: RLXJ)
P PRIMARY ASSY
(DWX2687: KUCXJ, WYXJ5)
(DWX2692: RLXJ
CN301 B10B-EH
CN102 B10B-EH
PF10EE-S22
10P EH
L=225 mm
KUCXJ, WYXJ5
RLXJ
J2
J3
CN5 B2P3-VH
CN4 B3P5-VH
CN6 RKP1751-A
AC CORD
VDG1075: KUCXJ
VDG1061: WYXJ5, RLXJ
L=110
J2=DKP3785-A(2P)
J3=DKP3786-A(3P)
G OUTPUT ASSY
(DWX2676)
(G 1/6 – G 6/6)
CN303 52147-0910
JH201 51048-0900
D20PDY0910E
Parallel
(2.0 mmP)
L=100 mm
N REG ASSY
(DWX2689)
CN305 VKN1242-A
CN5002 VKN1242-A
DDD1366-A
11P FFC
L=270mm
(1.0mmP)
REVERSE
CN304 B7B-PH-K-S
CN4004 B4B-PH-K-S
PF07PP-S12
7P PH
L=125mm
CN7701 S4B-PH-K-S
PF04PP-D27
L=275mm
M HP JACK
ASSY
(DWX2690)
JA7702 DKN1281-A
CN1001 AKM1293-A
CN1101 VKN1431-A
CN5000 VKN1258-A
DDD1367-A
27P FFC
L=350 mm(1.0 mmP)
REVERSE
E PANEL 1 ASSY
(DWX2677)
CN5001 52492-1320
DDD1369-A
13P FFC
L=100mm
(1.25mmP)
Straight
CN6007 52492-1320
CN1201 VKN1435-A
CN6001 VKN1262-A
DDD1368-A
31P FFC
L=280 mm(1.0 mmP)
Straight
F PANEL 2 ASSY
(DWX2678)
PF04PP4B05
4P PH
L=50mm
PF04PP-B05
4P PH
L=50mm
L=75mm
CN6002 B4B-PH-K-Y
CN6003 B4B-PH-K-S
CN6004 B4B-PH-K-Y
CN6006 B4B-PH-K-S
CN6005 PG06MR-E07
CN7101 S4B-PH-K-Y
CN7201 S4B-PH-K-S
CN7301 S4B-PH-K-Y
CN7401 S4B-PH-K-S
CN7001 173979-6
I FADER
(CH1) ASSY
(DWX2681)
J FADER
(CH2) ASSY
(DWX2682)
K FADER
(CH3) ASSY
(DWX2683)
L FADER
(CH4) ASSY
(DWX2684)
H FADER
(CROSS) ASSY
(DWX2680)

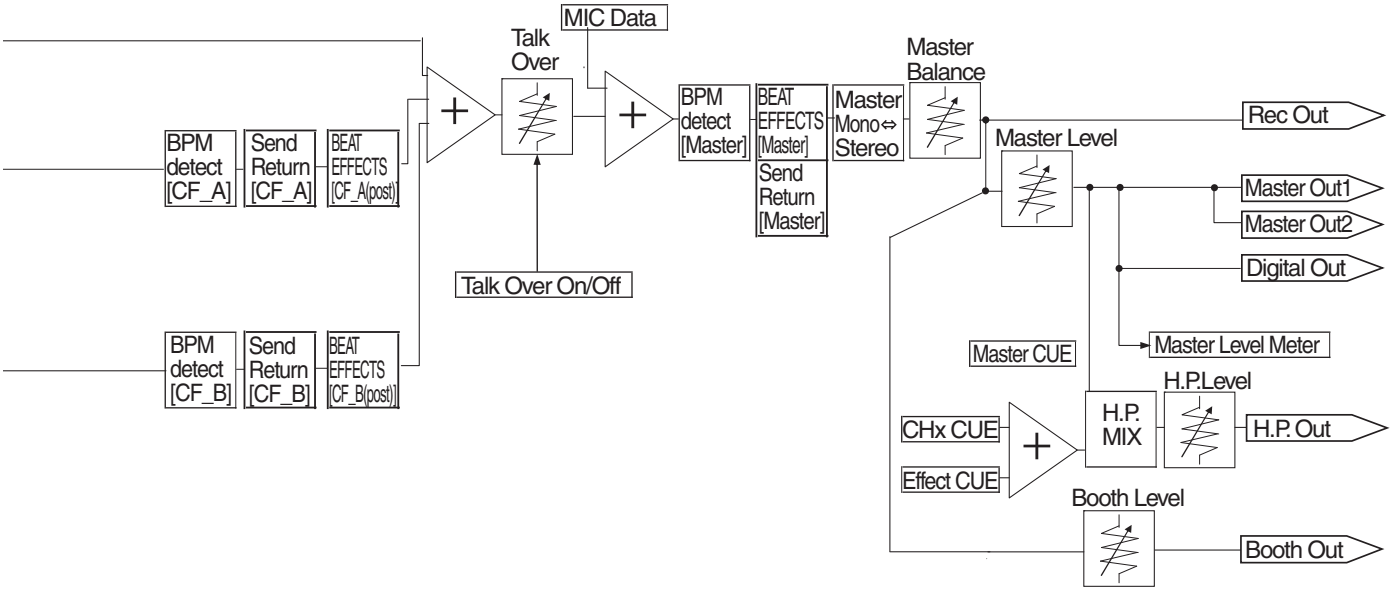
4.2 OVERALL BLOCK DIAGRAM

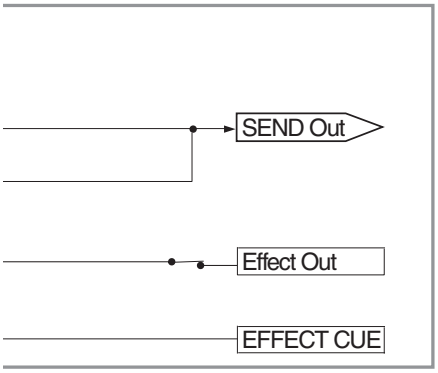


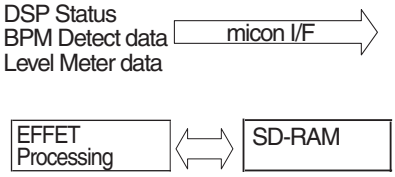

PHONES
IC1605
DAC
PHONES
MASTER
IC1603
DAC
ATT
MASTER1
MUTE
MASTER2
BOOTH
IC1602
DAC
MUTE
BOOTH
REC
IC1601
DAC
MUTE
REC
SEND
IC1611
DAC
MUTE
SEND
DIGITAL OUT
IC1702
SRC
IC1703
DIT
DIGITAL OUT
MIDI
IC1205
MAIN_CPU
FADER
(PANEL2)
IN_SEL
SW
IC1101
SUB_CPU
KEY
MATRIX
LED
MATRIX
VR(PANEL1)
FL
PANEL

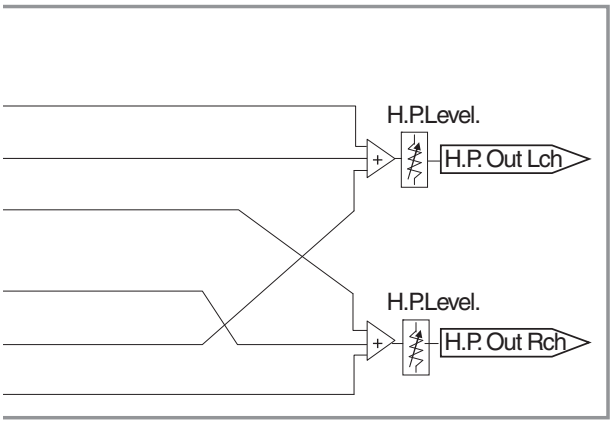
4.3 MAIN BLOCK DIAGRAM





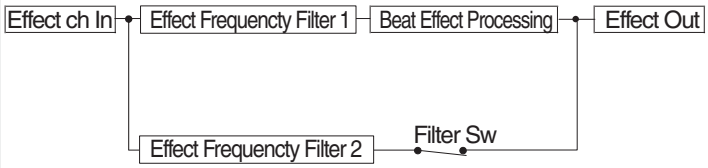






BPM Detection Process

Effect Frequency Filter(For effects other than Roll)



5. DIAGNOSIS
5.1 TEST MODE

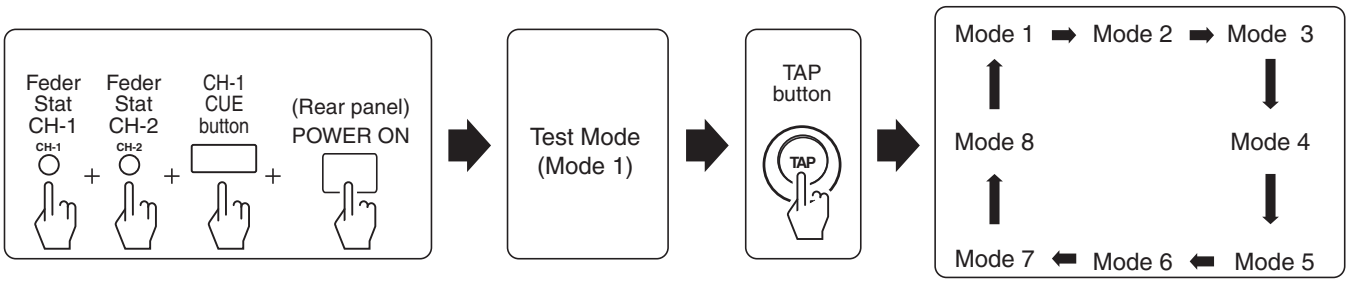
1. Description of Test Modes

The Following eight test modes are provided for this unit:

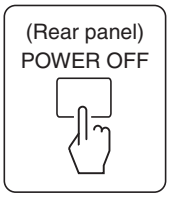
① Mode 1 : Confirmation of software version.
② Mode 2 : ALL LED & FL display ”OFF” MODE. ”ALL CLR”
③ Mode 3 : ALL LED & FL display ”ON” MODE. ”ALL SET”
④ Mode 4 : KEY OPERATING TEST. ”KEY TEST”
⑤ Mode 5 : SELECT SW Operating Test. ”SW TEST”
⑥ Mode 6 : Volume Test. “VOLTEST”
⑦ Mode 7 : Fader Test. “FDRTEST”
⑧ Mode 8 : Meter LED Test. “LEDTEST”

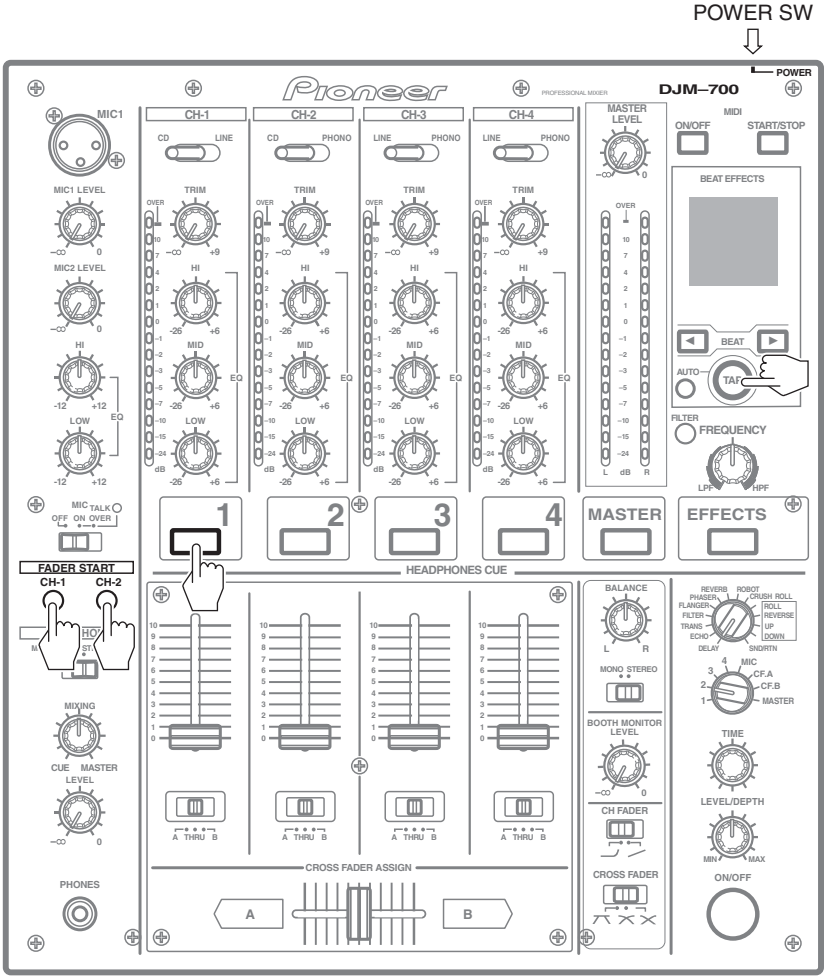
2. Test Mode

Test Mode : ON



Test Mode : CANCEL





A

1. Test mode contents.

① Mode 1 : Confirmation of software version.
② Mode 2 : ALL LED & FL display ”OFF” MODE. ”ALL CLR”
③ Mode 3 : ALL LED & FL display ”ON” MODE. ”ALL SET”
④ Mode 4 : KEY OPERATING TEST. ”KEY TEST”
⑤ Mode 5 : SELECT SW Operating Test. ”SW TEST”
⑥ Mode 6 : Volume Test. “VOLTEST”
⑦ Mode 7 : Fader Test. “FDRTEST”
⑧ Mode 8 : Meter LED Test. “LEDTEST”

B

2. How to start the Test Mode.

To enter test mode, turn the Power button while pressing all of the FADER START CH1,FADER START CH2,CUE CH1 buttons.

There are 8 modes in this Test Mode.
If the TAP button is pressed, Mode1-8 can be selected by selector switch.
When set up mode is started, Mode 1 is selected automatically.

C

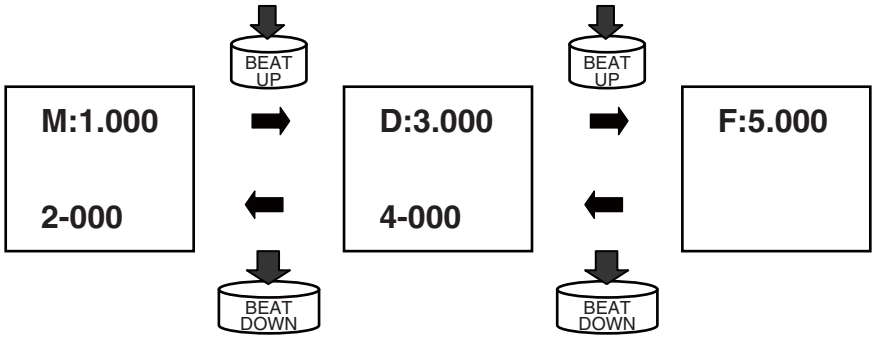
Once Test Mode starts, it keeps the test mode until turning the Power off.

3. Test mode

① Mode 1 : Confirmation of software version.

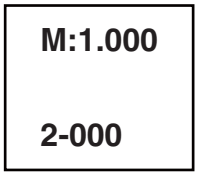
- Mode that confirms version of microcomputer(MAIN),microcomputer(SUB), DSP (program), DSP (data), and FPGA.
- There are 3 screens for displaying each version of microcomputer, DSP, and FPGA in this Mode.
  Those screens is changed by pressing BEAT UP or DOWN buttons.

D



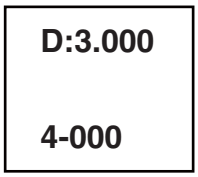
It is displayed a version of firmware by FL display.

- Microcomputer versions display
  For exsample
  Microcomputer(MAIN) : 1.000
  Microcomputer(SUB) : 2.000



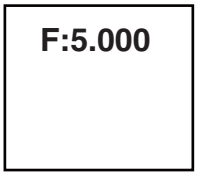
E

- DSP versions display
  For exsample
  DSP(program) : 3.000
  DSP(data) : 4.000



F

• FPGA versions display
For exsample
FPGA : 5.000



② Mode 2 : ALL LED & FL display ”OFF” MODE. ”ALL CLR”

• It displays "ALL CLR" on the FL display in the first 2 seconds.

③ Mode 3 : ALL LED & FL display ”ON” MODE. ”ALL SET”

• It displays "ALL SET" on the FL display in the first 2 seconds.

④ Mode 4 : KEY OPERATING TEST. ”KEY TEST”

• While the self-illumination buttons are being pressed, LEDs lights.
• The name of the key while pressing it to the FL display is displayed.

LED TABLE

Buttons	Lighting LED		Remark
FADER START CH1	FADER START CH1 LED		Two LED lights.
	CH1 Level Meter LED	-24dB	
FADER START CH2	FADER START CH2 LED		Two LED lights.
	CH2 Level Meter LED	-24dB	
CUE CH1	CUE CH1 LED		
CUE CH2	CUE CH2 LED		
CUE CH3	CUE CH3 LED		
CUE CH4	CUE CH4 LED		
CUE MASTER	CUE MASTER LED		
CUE EFFECT	CUE EFFECT LED		
MIDI ON/OFF	Master Level Meter L CH LED	OVER	
MIDI START/STOP	Master Level Meter R CH LED	OVER	
BEAT DOWN(◄)	Master Level Meter L CH LED	10dB	
BEAT UP (►)	Master Level Meter R CH LED	10dB	
AUTO/TAP	Master Level Meter L CH LED	7dB	
EFFECT ON/OFF	EFFECT ON/OFF LED		
FILTER	FILTER LED		Two LED lights.
	Master Level Meter L CH LED	4dB	

⑤ Mode 5 : SELECT SW Operating Test. ”SW TEST”

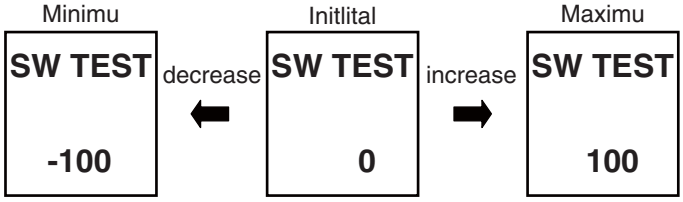
• The selected SW can be confirmed by LEDs lights.

Switch		Lighting LED		Remark
MIC	: OFF	FADER START CH1 LED		
	: ON	MIC LED		
	: TALK OVER	FADER START CH2 LED		
Headphone MONO/STEREO	: MONO SPLIT	CH1 Level Meter LED	0dB	
	: STEREO		1dB	
CH FADER Assign CH1	: Assign A	CH1 Level Meter LED	-24dB	
	: THRU		-15dB	
	: Assign B		-10dB	
CH FADER Assign CH2	: Assign A	CH2 Level Meter LED	-24dB	
	: THRU		-15dB	
	: Assign B		-10dB	
CH FADER Assign CH3	: Assign A	CH3 Level Meter LED	-24dB	
	: THRU		-15dB	
	: Assign B		-10dB	
CH FADER Assign CH4	: Assign A	CH4 Level Meter LED	-24dB	
	: THRU		-15dB	
	: Assign B		-10dB	

Swich		Lighting LED		Remark
CD/LINE	: CD	CH1 Level Meter LED	10dB	
	: LINE		OVER	
CD/PHONO	: CD	CH2 Level Meter LED	10dB	
	: PHONO		OVER	
LINE/PHONO	: LINE	CH3 Level Meter LED	10dB	
	: PHONO		OVER	
LINE/PHONO	: LINE	CH4 Level Meter LED	10dB	
	: PHONO		OVER	
CH FADER CURVE select SW	: Left	Master Level Meter L CH LED	4dB	
	: Right		7dB	
CROSS FADER CURVE select SW	: Left	Master Level Meter L CH LED	0dB	
	: Center		1dB	
	: Right		2dB	
Channel Select SW	: 1	Master Level Meter L CH LED	-24dB	
	: 2		-15dB	
	: 3		-10dB	
	: 4		-7dB	
	: MIC		-5dB	
	: CF.A		-3dB	
	: CF.B		-2dB	
	: MASTER		-1dB	
Effect Select SW	: DELAY	Master Level Meter R CH LED	-24dB	
	: ECHO		-15dB	
	: TRANS		-10dB	
	: FILTER		-7dB	
	: FLANGER		-5dB	
	: PHASER		-3dB	
	: REVERB		-2dB	
	: ROBOT		-1dB	
	: ROLL		0dB	
	: REVROLL		1dB	
	: UP ROLL		2dB	
	: DWNROLL		4dB	
	: STRROLL		7dB	
	: SND/RTN		10dB	
DigitalOut Sampling Rate Select SW	: 48k	CH2 Level Meter LED	0dB	
	: 96k		1dB	
MONO STEREO Select SW	: MONO	Master Level Meter L CH LED	OVER	
	: STEREO		10dB	

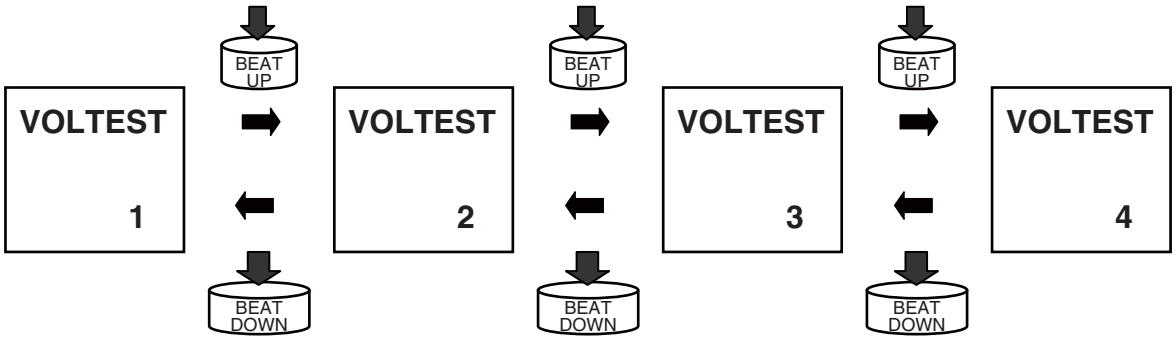
The numerical value on the FL diplay can be increased and decreased by operating the rotary encoder.

Range of operation
Initial value : 0
Minimum value : 100
Maximum value : 100



⑥ Mode 6 : Volume Test . “VOLTEST”

- Mode to confirm analog to digital translation value of rotary volume on operation panel by lighting Level Meter LED.
- In this mode, to display the value of two or more rotary volumes with one level meter LED, each rotary volume is divided into four groups.
  Those groups is changed by pressing BEAT UP or DOWN buttons.



- group 1
  Rotary volume that can be confirmed
  - CH1 HI, CH2 HI, CH3 HI, CH4 HI, MIC HI, MIC LOW

Volume	Lighting LED	Remark
CH1 HI	CH1 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH2 HI	CH2 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH3 HI	CH3 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH4 HI	CH4 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
MIC HI	Master Level Meter L CH LED	"-12" : Lights off "+12" : Full Illuminate
MIC LOW	Master Level Meter R CH LED	"-12" : Lights off "+12" : Full Illuminate

- group 2
  Rotary volume that can be confirmed
  - CH1 MID, CH2 MID, CH3 MID, CH4 MID, MASTER LEVEL, FILTER

Volume	Lighting LED	Remark
CH1 MID	CH1 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH2 MID	CH2 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH3 MID	CH3 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH4 MID	CH4 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
MASTER LEVEL	Master Level Meter L CH LED	"-∞" : Lights off "0" : Full Illuminate
FREQUENCY	Master Level Meter R CH LED	"LPF" : Lights off "HPF" : Full Illuminate

⑥ Mode 6 : Volume Test. "VOLTEST"

• group 3

Rotary volume that can be confirmed

• CH1 LOW, CH2 LOW, CH3 LOW, CH4 LOW

Volume	Lighting LED	Remark
CH1 LOW	CH1 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH2 LOW	CH2 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH3 LOW	CH3 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH4 LOW	CH4 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate

• group 4

Rotary volume that can be confirmed

• H.P. MIXING, H.P. LEVEL, MASTER BALANCE, BOOTH MONITOR, LEVEL/DEPTH

Volume	Lighting LED	Remark
H.P. MIXING	CH1 Level Meter LED	"CUE" : Lights off "MASTER" : Full Illuminate
H.P. LEVEL	CH2 Level Meter LED	"-∞" : Lights off "0" : Full Illuminate
MASTER BARANCE	CH3 Level Meter LED	"L" : Lights off "R" : Full Illuminate
BOOTH MONITOR	CH4 Level Meter LED	"-∞" : Lights off "0" : Full Illuminate
LEVEL/DEPTH	Master Level Meter L CH LED	"MIN" : Lights off "MAX" : Full Illuminate

The value of CH SELECT SW to read the selection position by the analog to digital translation can be confirmed in this group.

Volume		Lighting LED		Remark
CH Select SW	:1	Master Level Meter R CH LED	-24dB to '10dB	
	:2		-24dB to '4dB	
	:3		-24dB to '2dB	
	:4		-24dB to '0dB	
	:MIC		-24dB to '-1dB	
	:CF.A		-24dB to '-3dB	
	:CF.B		-24dB to '-7dB	
	:MASTER		-24dB to '-10dB	

⑦ Mode 7 : Fader Test. “FDRTEST”

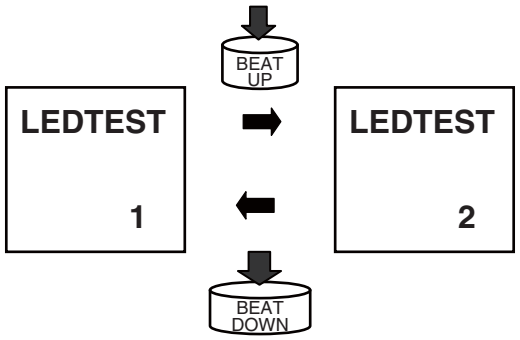
• Mode that confirms a value of each CH Fader and Cross Fader.

FADER	Lighting LED	Remark
CH1 FADER	CH1 Level Meter LED	"0" : Lights off "10" : Full Illuminate
CH2 FADER	CH2 Level Meter LED	"0" : Lights off "10" : Full Illuminate
CH3 FADER	CH3 Level Meter LED	"0" : Lights off "10" : Full Illuminate
CH4 FADER	CH4 Level Meter LED	"0" : Lights off "10" : Full Illuminate
CROSS FADER	Master Level Meter L CH LED	"A" : Full Illuminate "B" : Lights off

⑧ Mode 8 : Mater LED Test. “LEDTEST”

• Mode that confirms the brightness of Level Meter LED.

• In this mode, two methods of confirming lighting meter LED exist.
Those methods is changed by pressing BEAT UP or DOWN buttons.



• confirmation method 1
If the CUE key is pressed, the LEDs for the corresponding channels of the Master Level Meter light up one by one, from the bottom upward, as follows:
If the MASTER CUE key is pressed, the LEDs for the L channel of the Master Level Meter light up.
If the EFFECTS CUE key is pressed, the LEDs for the R channel of the Master Level Meter light up.

The default all Lights off.
It is possible to return to all Lights off when pressing it 15 times again after it presses it (LED on lights most) and to repeat from the beginning.

• confirmation method 2
When the CUE key is pushed, all LED of the level meter of the channel corresponding to the key switches lighting to turning off.

5.2 UPDATING OF THE FIRMWARE

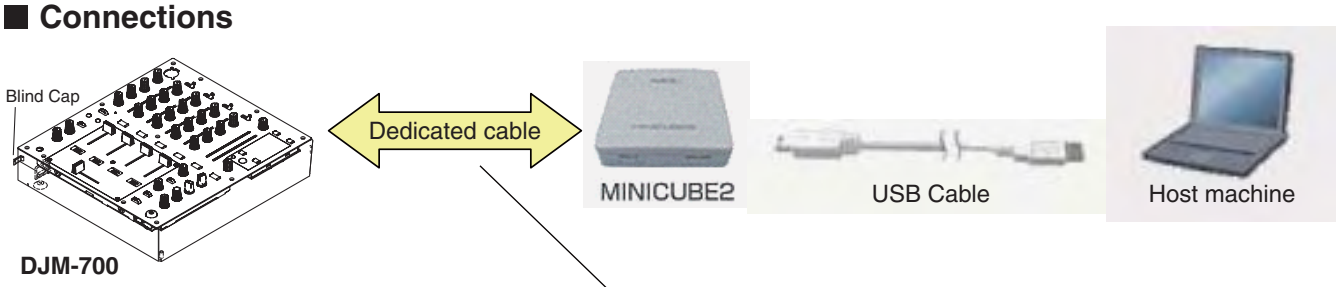
■ Purpose: After replacement of the MAIN PCB Assy, updating of the firmware to the latest version is required.

■ Necessary software and tools

PC (With Windows 98, Me, 2000, or XP)
GGD1530 (Dedicated cable for connector conversion)
GGF1605 (Interface device: MINICUBE2)
QB-Programmer (software for updating) Refer to the next page.
Parameter file (To be used with QB-Programmer)
Firmware file

- You can obtain QB-Programmer and the parameter file from the website on the Internet. (See "How to Download the Update Software.")
- You can obtain the firmware file from Niis on the Internet.
  Connect either of the two terminals (for the main and sub-microcomputers) provided on the left side of the DJM-700 and the terminal on the MINICUBE2 with the dedicated cable. Connect the PC on which updating software has been installed and the MINICUBE2 with the USB cable supplied with the MINICUBE2.

■ Connections



- Exterior view of the special cable
  Part number : GGD1530

The update target determines which terminal is used.

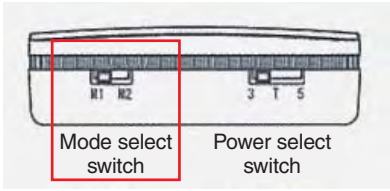
Update target	Terminal to connect with
Main microcomputer, DSP	Left side
Sub microcomputer	Right side

* Refer to the section “5.3 How to update.”

Note: Turn off the DJM-700 before connecting it.

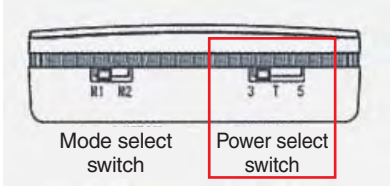
■ MINICUBE2 Setting

- Set the mode for the microcomputer to be updated.
  Set the mode select switch to "M1" (left side)



* Selecting "M1" allows you to update the DJM-700 microcomputer.
  ("M2" is used for another microcomputer and is not used at this time.)

- Select the power supply for the microcomputer that needs the update.
  Set the power select switch to "3" (left side)



Switch number (printed on the device)	Power supply method	Voltage	Switch position
3	Supplied by the host machine via USB	3V	Left
T	Draws power from the target machine	Depends on the power supply	Center
5	Supplied by the host machine via USB	5V	Right

* If either "3" or "5" is selected, it is not necessary to turn the DJM-700 on during the update.
* To change the settings, make sure the MINICUBE2 is not connected to the host machine (LED on the MINICUBE2 is not lit).

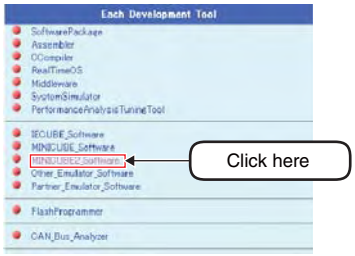
■ How to Download the Update Software

What to download : QB-Programmer (software for updating)
Parameter file (necessary for using QB-Programmer and is different depending on the model of the microcomputer)
Address of the download site : https://www5.necel.com/micro/tool_reg/OdsListTop.do?lang=en
Download procedures :

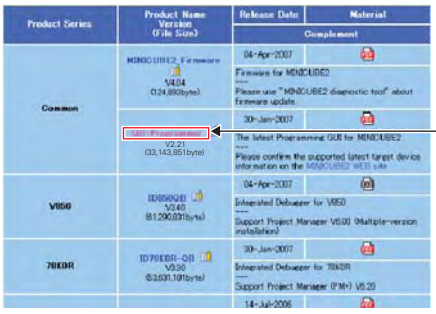
- QB-Programmer

1. Access the download site.
   - Top page of the download site

2. Click [MINICUBE2_Software] under "Each Development Tool".
   - Selecting MINICUBE2 for downloading



3. From [Common] under "Product Series", click [QB-Programmer V2.21 (33,143,851byte)] under "Product Name Version (File Size)" to download.
   Download file name: qbp_v221_e.exe

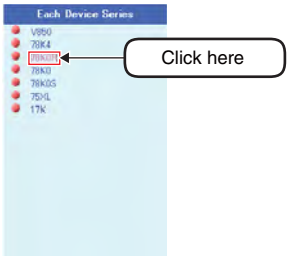


* Click to start downloading

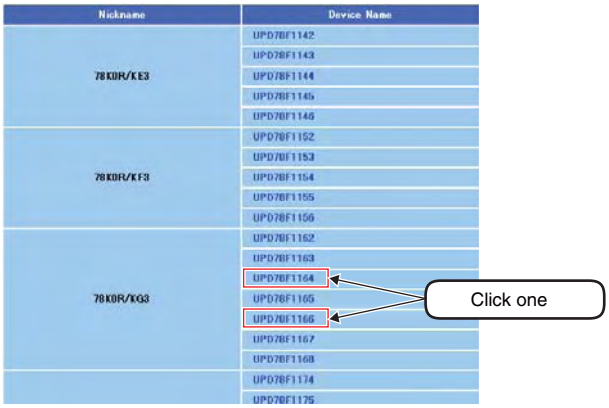
• Parameter file

1. Access the download site.
   • Top page of the download site

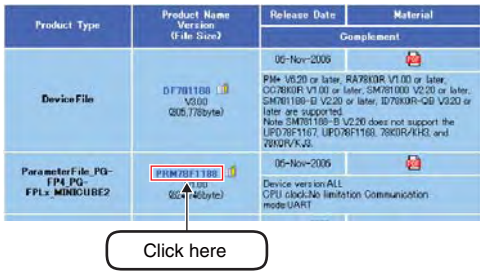
2. Click [78K0R] under "Each Device Series".
   • Selecting a parameter file for downloading



3. From [78K0R/KG3] under "Nickname", click either "UPD78F1164" or "UPD78F1166" under "Device Name".
   * Downloading either one does not change the file downloaded in step 4.



4. From [ParameterFile_PG-FP4_PG-FPLx_MINICUBE2] under "Product Type",
   click [PRM78F1188 V1.00 (624,746byte)] under "Product Name Version (File Size)" to download.
   Download file name : prm78f1188_v100.exe
   * Includes parameter files and documents for multiple models of the K0R microcomputer.



* Click to start downloading

Setup instructions after download :

- QB-Programmer

  Open the downloaded exe file and follow the instructions on-screen to install the software.

- Parameter file

  Opening the downloaded exe files creates a folder named PRM78F1188_V100 that contains compressed documentation files with explanations about the parameter files for various models of the K0R microcomputer. Use this information to select the appropriate parameter file for your model of the microcomputer to use with QB-Programmer.

Microcomputer listing	Serial number	Compatible parameter file
Main Microcomputer	UPD781166	78F1166.prm
Sub microcomputer	UPD781164	78F1164.prm

5.3 HOW TO UPDATE

■ Procedures for Updating

1. Updating of the DSP program (only when necessary)
2. Updating of the DSP data (only when necessary)
3. Updating of the microcomputer

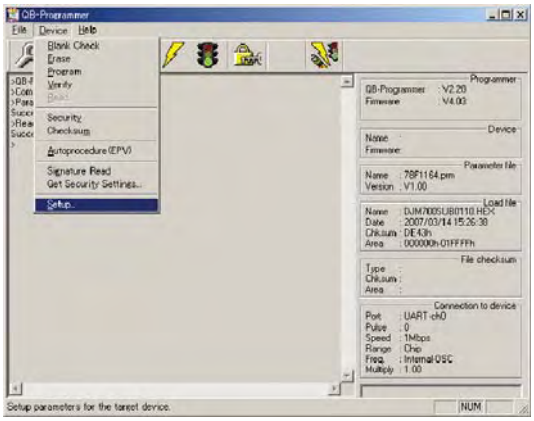
Note: After updating of the DSP program or/and data is completed, updating of the main microcomputer must be performed.

■ How to Update the Microcomputer

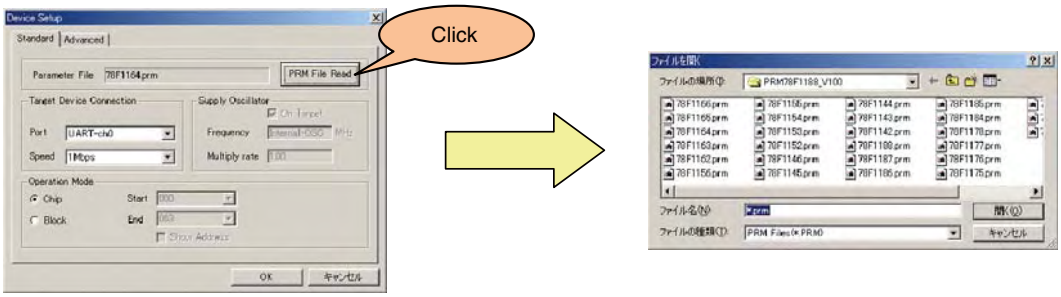
Note: Please turn power of DJM-700 into OFF.

1) Start up QB-Programmer then perform the settings for the parameter file.
(The settings for the parameter file must be made only the first time. After the first startup, your settings will be stored in memory. Later change in the settings is possible.)

How to set the parameter file:
Click on "Device" then "Setup" to display the "Device Setup" screen.



Select the appropriate parameter file for the chip on the "Device Setup" screen from the "Parameter File" list on the "Standard" tab.

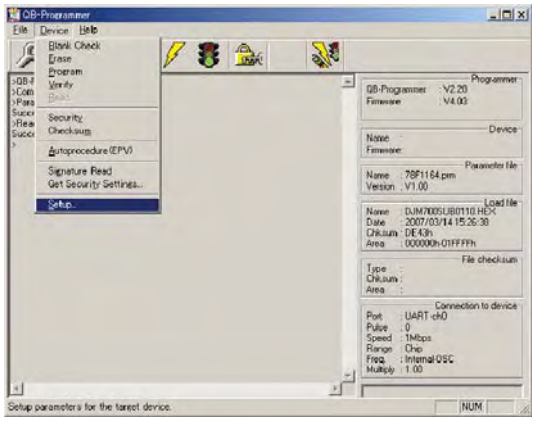


Click "OK" to finish the setup.

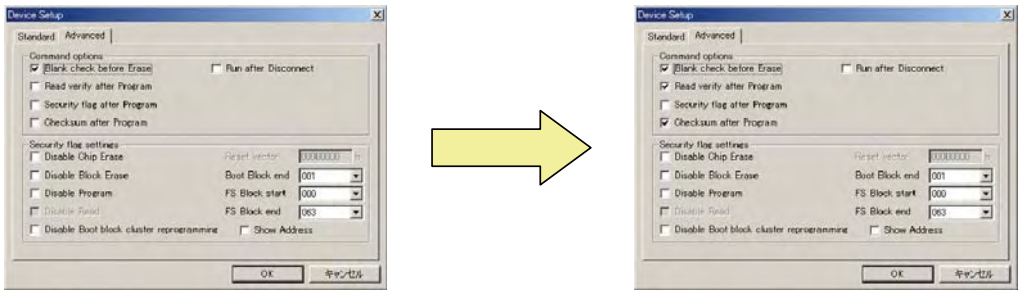
Parameter file for each microcomputer

Microcomputer	Parameter file	Chip model number
Main	78F1166.prm	µPD78F1166
Sub	78F1164.prm	µPD78F1164

2) Set the command options after setting the parameter file.
(You only need to set the command options the first time you start the program *1)
*1 Command option settings are cleared when you change the parameter file, making it necessary to reconfigure the settings.
Setup procedure:
Display the "Device Setup" screen by selecting "Setup" from the "Device" menu.



Under the "Advanced" tab, check the following check boxes under "Command options" on the "Device Setup" screen.



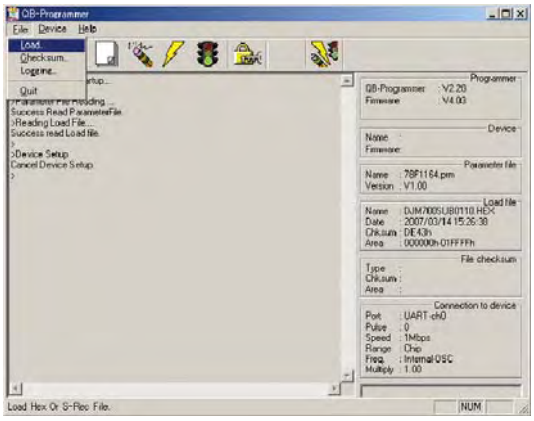
Click "OK" to finish the setup.

Items to check	Description of the command option
Blank check before erase	Checks if the chip is blank before erasure (decides erasure is unnecessary if the area is blank.)
Read verify after Program	Automatically verifies newly downloaded firmware.
Checksum after Program	Automatically performs a checksum on newly downloaded firmware.

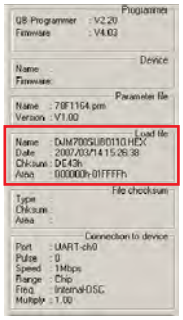
3) Load the downloaded firmware.

Setup procedure:

Select "Load" from the "File" menu, select the downloaded firmware from the location you saved it in and then click the "Open" button.

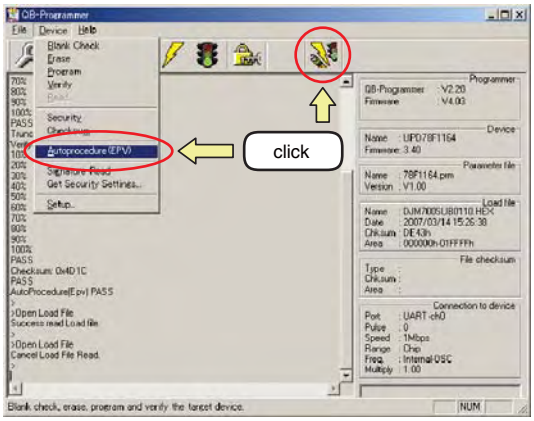


The loaded file is shown in the "Load file" box on the right-side of the QB-Programmer.



Display format:
Name : File name
Date : Last modified
Chksum : Checksum value (2 byte, hexadecimal display)
Area : 000000h-xxxxxxh
↑ The last address in the ROM area is 03FFFFh for the main microcomputer and 1FFFFh for the sub microcomputer

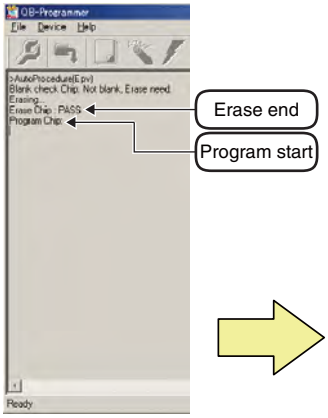
4) Download the new firmware to the microcomputer.
Setup procedure:
Select "Autoprocedure (EPV)" from the "Device" menu or click the "Autoprocedure" icon.



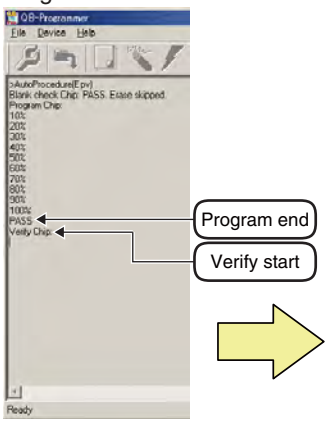
Update with Autoprocedure is performed in the following order.
- The old firmware is erased from the microcomputer (erase). If old firmware does not exist (blank), this step is skipped.
- New firmware is downloaded (Program)
- Verification performed (Verify) *2
- Checksum performed (Checksum) *2

*2 Must be configured under command options.
However, you can still use the verify and Checksum functions.

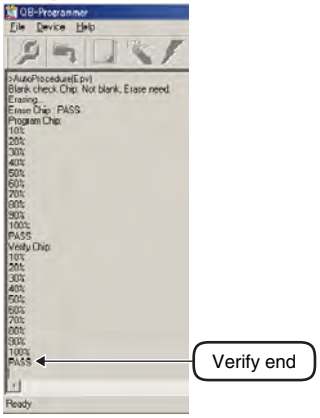
Erase



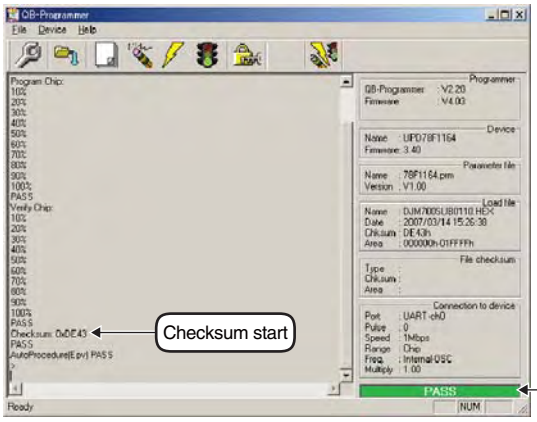
Program



Verify



Checksum



5) Close the QB-Programmer and disconnect the host machine from the MINICUBE2 (USB).

Note: After updating is completed, enter Mode 1 (Confirmation of software version) of Test mode to check if the versions have been all updated.

How to Update the DSP Program/Date

Notes:

- Please turn power of DJM-700 into OFF.
- If updating of both the DSP program and data is necessary, the following updating procedures must be performed separately for the program and data.

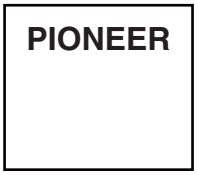
1) Referring to “How to Update the Main Microcomputer,” download the firmware for updating the DSP program/data.
   Use the parameter file “78F1166.prm” for the main microcomputer.
   - Please turn power of DJM-700 into OFF.
2) After downloading of the firmware is completed, disconnect the MINICUBE2 from the DJM-700 then turn the DJM-700 ON.
   Updating of the DSP program or data will be automatically started and completed.

Caution!!

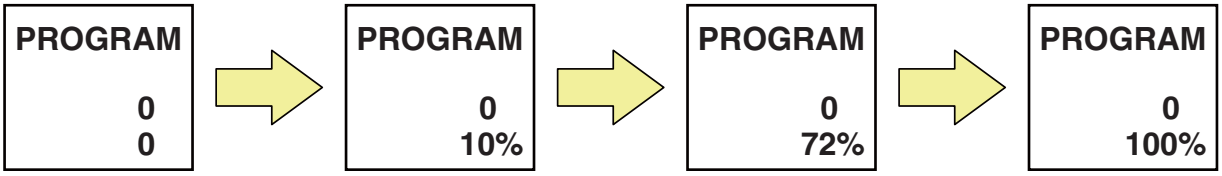
If the DJM-700 is on during the download, the DSP update is performed immediately after the MINICUBE2 is disconnected. (This is because the DJM-700 is in reset status when connected to the host machine by the MINICUBE2 and reset status is cleared when the DJM-700 is disconnected.)
In this situation, do not turn off the power until the following DSP update compete screen is displayed.
Do not turn off the power during the update. Otherwise, the DSP may not restart.

- Modifying the FL display during the update (for the DSP program update)

Power on

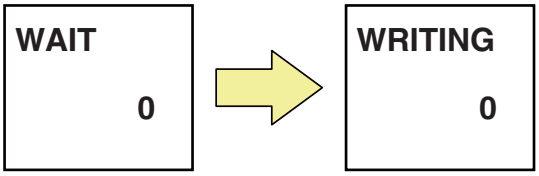


While downloading the update



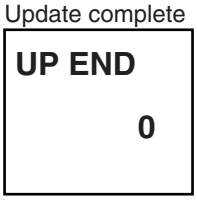
* "DATA" is displayed instead of "PROGRAM" while updating the DSP data.

Writing to the flash ROM



Caution!!
Never turn off the power while loading data or writing to the ROM.

Update complete



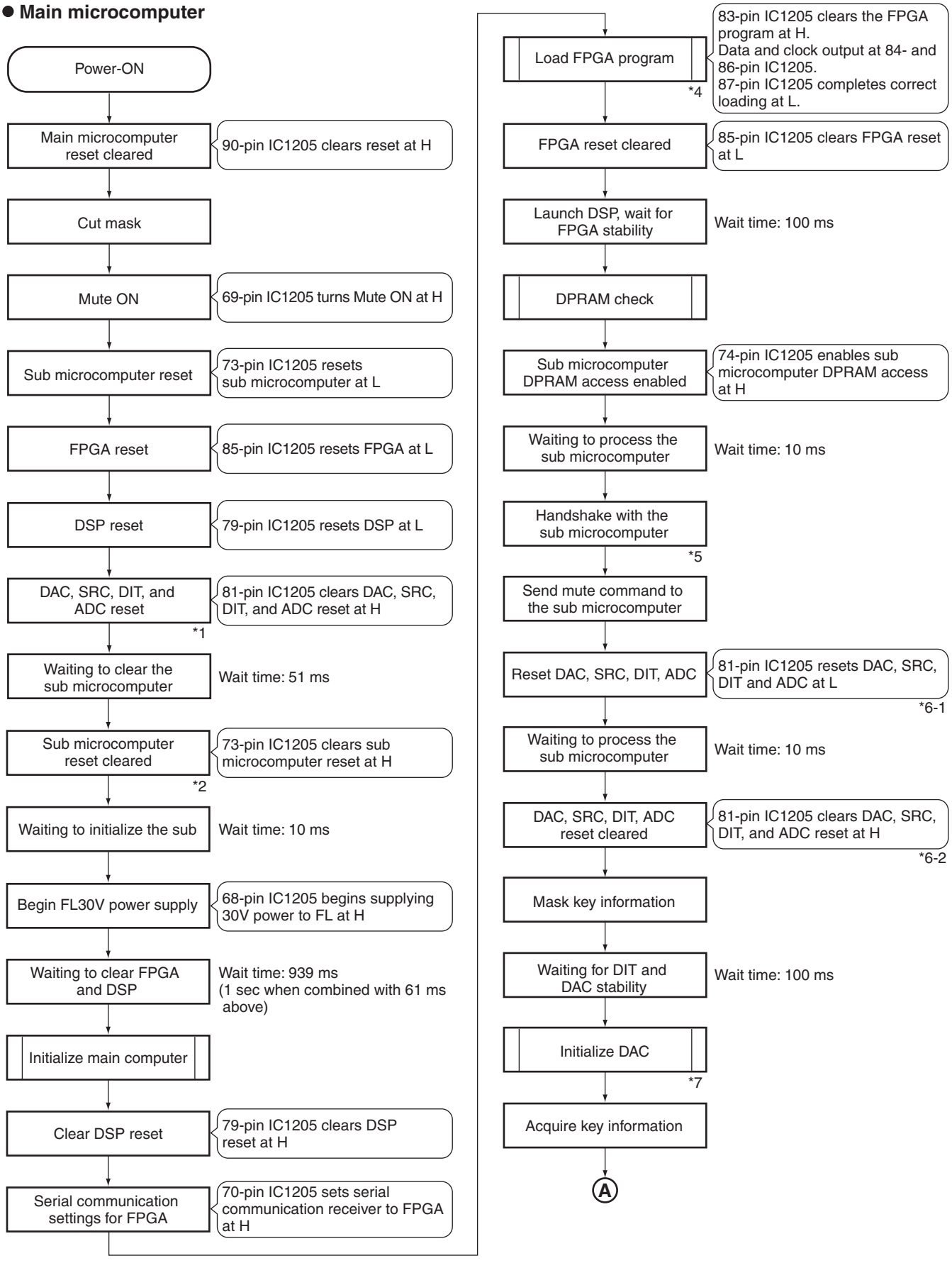
← You may turn off the power once this screen appears.

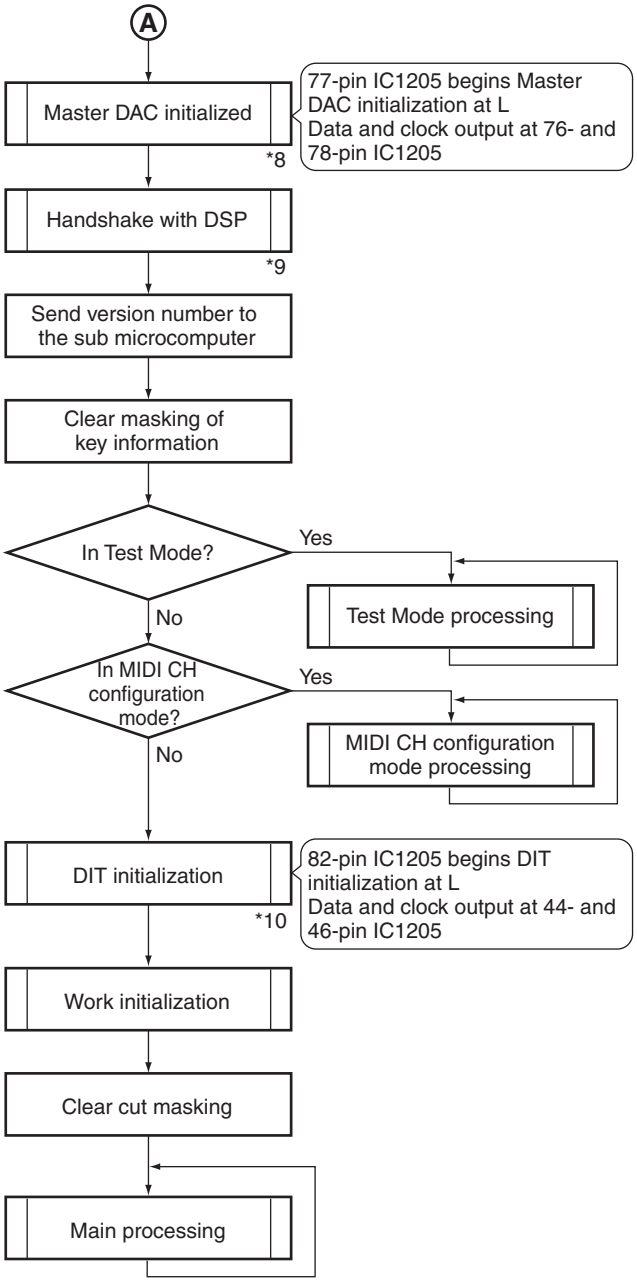
3) After DSP updating is completed, perform the firmware update of the main microcomputer.
   If it does not perform this update, this unit cannot use the normal function.

Note: After updating is completed, enter Mode 1 (Confirmation of software version) of Test mode to check if the versions have been all updated.

5.4 POWER ON SEQUENCE

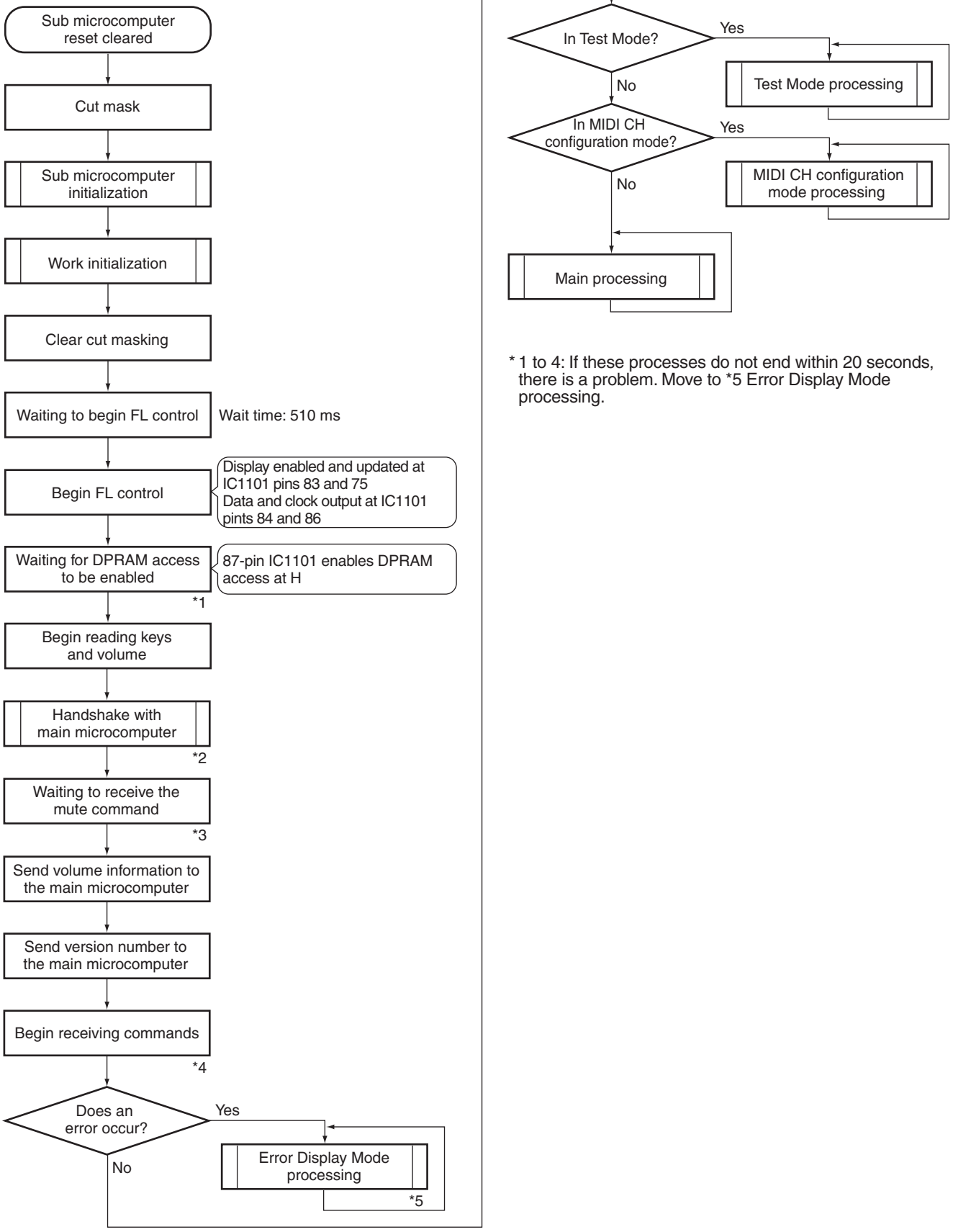
● Main microcomputer





* 1: In order to clarify signal standing edge during reset, the signal is temporarily set to H. Further processing drops it to L and then it is returned to H (at *6).
* 6 1-2: Clears the DAC reset
* 2 to 5, 7 to 9: If there is a failure in an IC initialization or with a handshake, normal startup is deemed impossible at that point and processing from that point is aborted. (Internal processes enter unending loop processing.)

● Sub microcomputer



* 1 to 4: If these processes do not end within 20 seconds, there is a problem. Move to *5 Error Display Mode processing.

6. SERVICE MODE

A

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

B

C

D

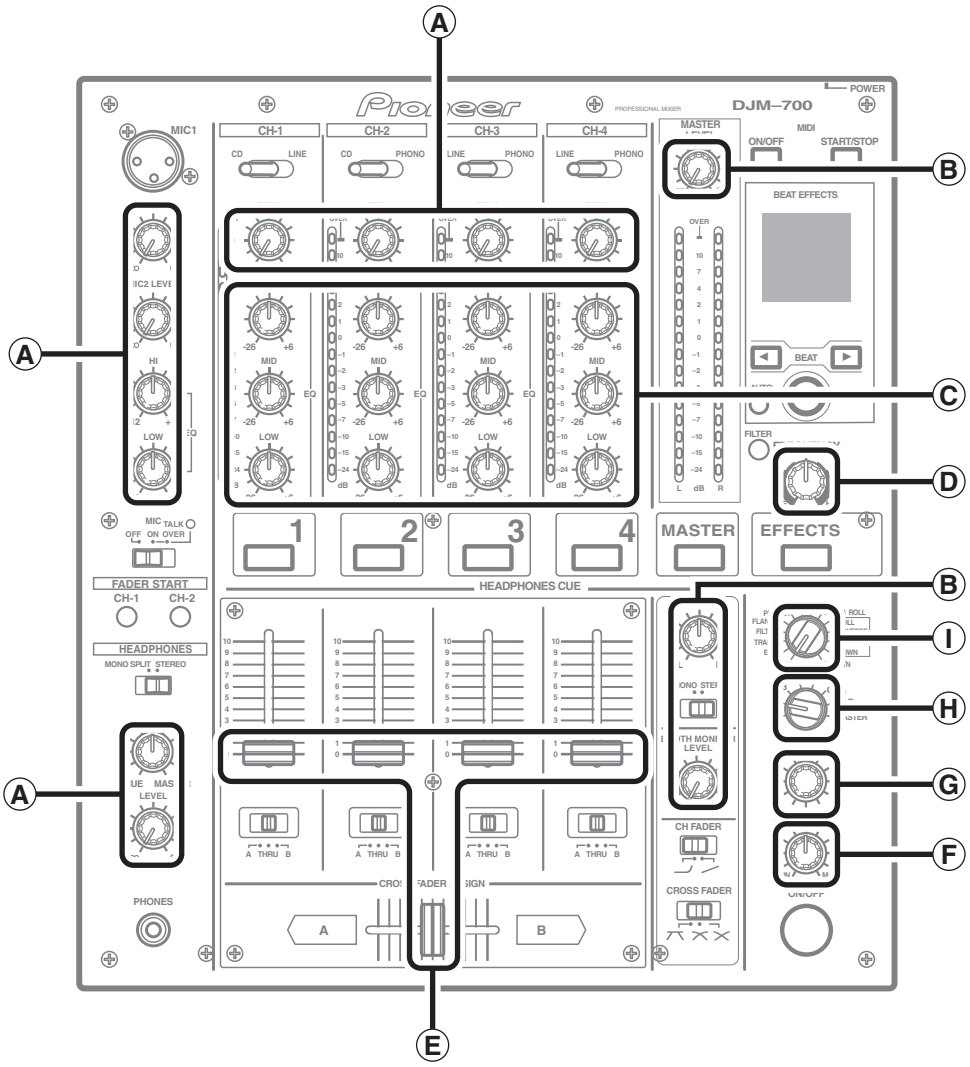
E

F

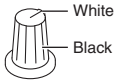
7. DISASSEMBLY

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

Knobs and Volumes Location

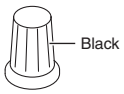


A Knob (BLACK)
(DAA1212) ×10

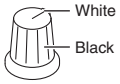


D Rotary SW knob (HM)
(DAA1197) ×1

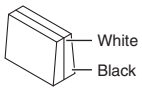
G Knob (TIME)
(DAA1214) ×1



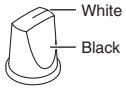
B Knob (MA)
(DAA1210) ×3



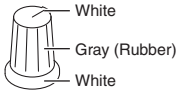
E Slider knob (L2)
(DAC2371) ×5



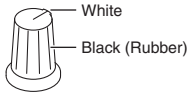
H FX SEL knob
(DAA1213) ×1



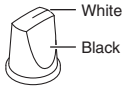
C Rotary SW knob (G)
(DAA1219) ×12



F Rotary knob (BN)
(DAA1220) ×1



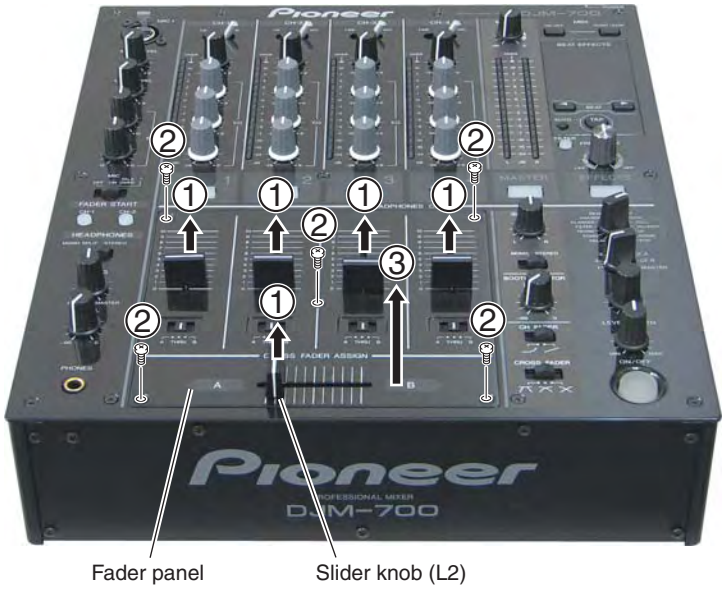
I Select knob
(DAA1205) ×1



DISASSEMBLY

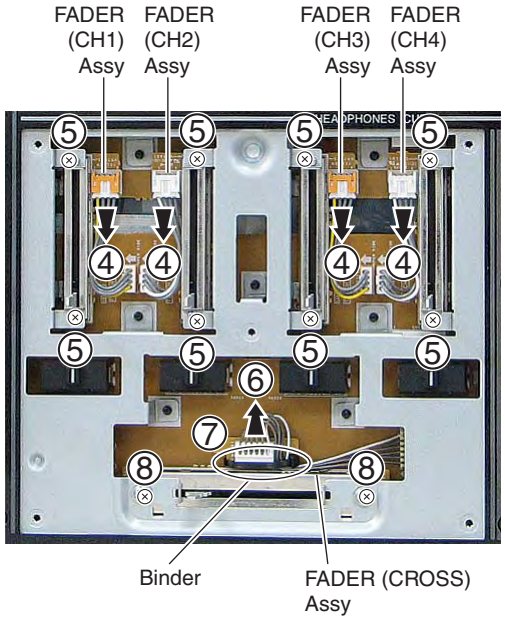
1 Fader

① Remove the 5 slider knob (L2).
② Remove the 5 screws.
③ Remove the fader panel.



④ Disconnect the 4 connectors.
⑤ Remove the 8 screws.
⑥ Disconnect the connector.
⑦ Cut the binder.
⑧ Remove the 2 screws.

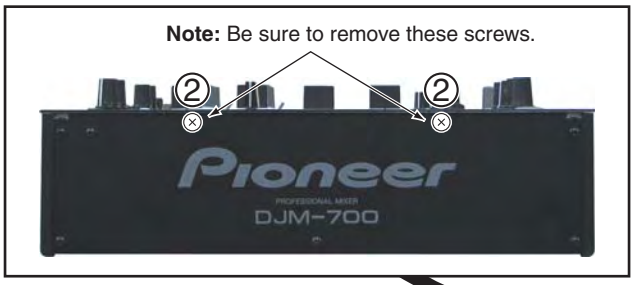
Exchange



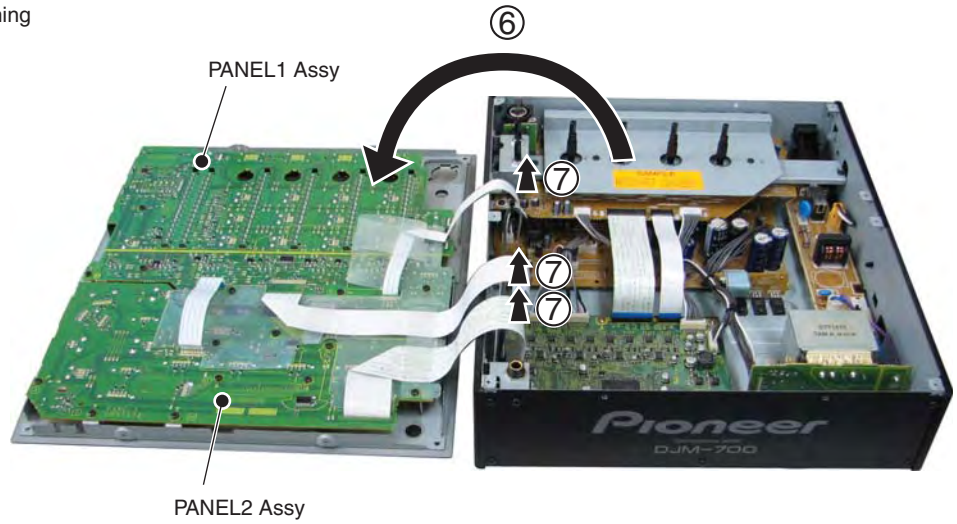
2 Control Panel

① Remove the 6 Knobs (BLACK).
② Remove the 2 screws.
③ Remove the 2 screws.
④ Remove the 6 screws.
⑤ Remove the 2 screws.

Note:
Be sure to remove the screws that secure the MIC. Not doing so may result in damage to the connector.

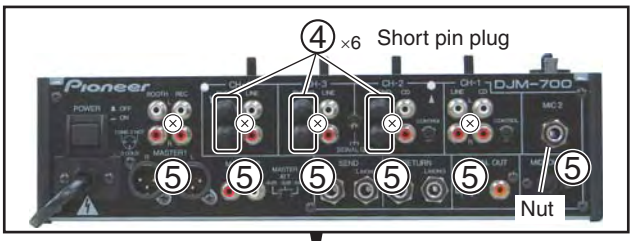


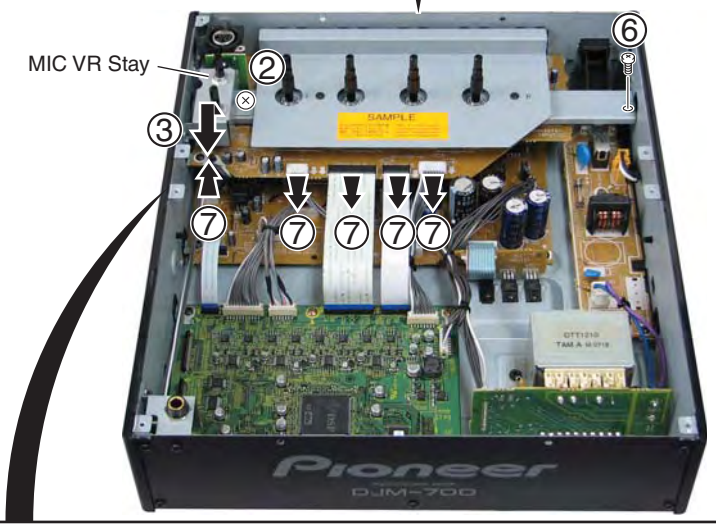
⑥ Remove the control panel by opening it in the direction of the arrow.
⑦ Unplug the 3 flexible cables.

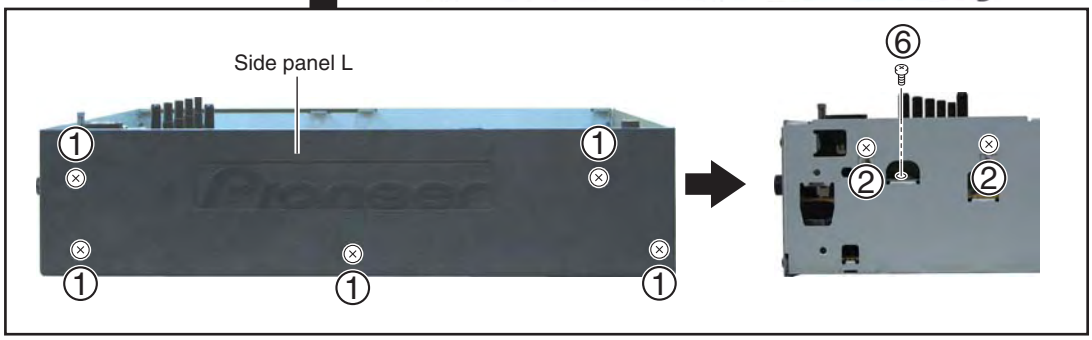


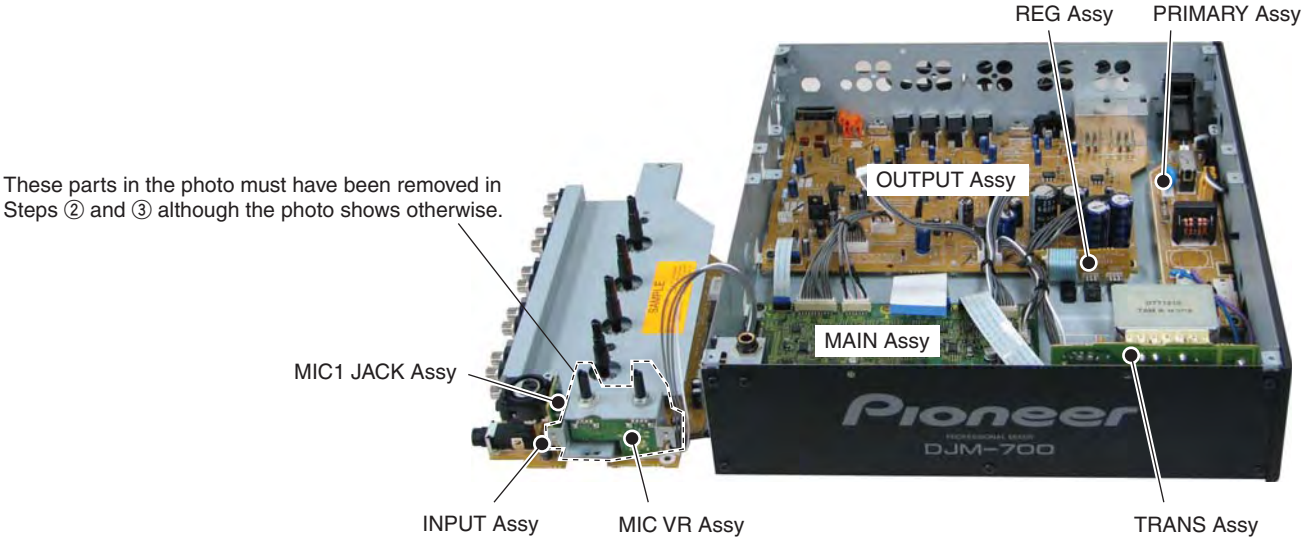
3 INPUT Assy

① Remove the 5 screws to remove the side panel L.
② Remove the 3 screws.
③ Remove the MIC VR stay by sliding it up and forward.
④ Remove the 6 short pin plugs.
⑤ Remove the 5 screws and nuts.
⑥ Remove the 2 screws.
⑦ Remove the 3 connectors and the 2 flexible cables.









These parts in the photo must have been removed in Steps ② and ③ although the photo shows otherwise.

8. EACH SETTING AND ADJUSTMENT

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

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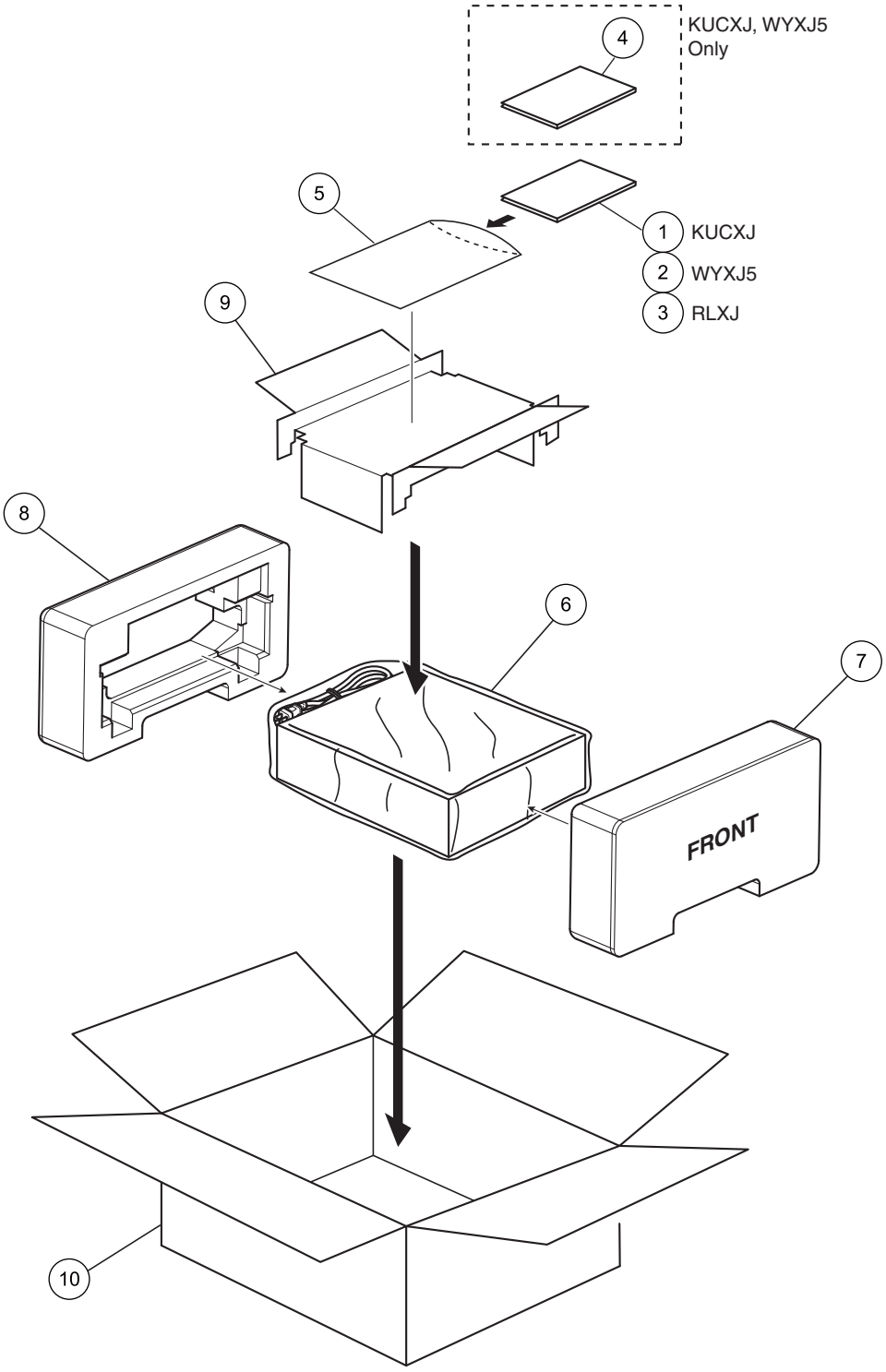
9. EXPLODED VIEWS AND PARTS LIST

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

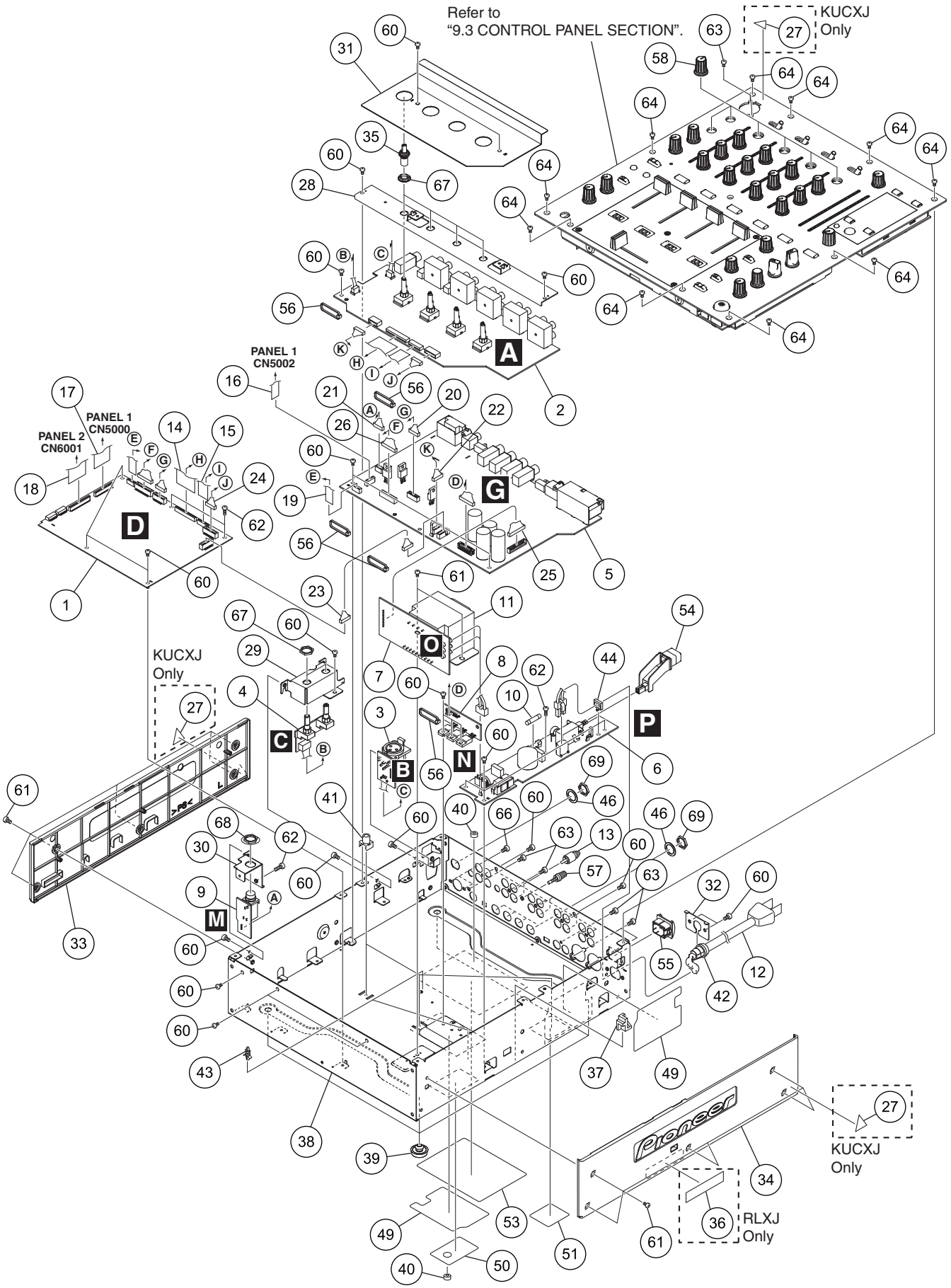
Mark	No.	Description	Part No.
	1	Operating Instructions (English)	See Contrast table (2)
	2	Operating Instructions (English, French, German, Italian, Dutch, Spanish, Russian)	See Contrast table (2)
	3	Operating Instructions (English, Spanish, Chinese)	See Contrast table (2)
NSP	4	Warranty Card	See Contrast table (2)
NSP	5	Polyethylene Bag (0.06 x 230 x 340)	AHG7117
	6	Packing Sheet	AHG7010
	7	Pad F	DHA1741
	8	Pad R	DHA1742
	9	Pad T	DHA1764
	10	Carton Box	See Contrast table (2)

(2) CONTRAST TABLE

DJM-700-S/KUCXJ, WYXJ5, RLXJ, DJM-700-K/KUCXJ, WYXJ5 and RLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-700-S /KUCXJ	DJM-700-S /WYXJ5	DJM-700-S /RLXJ	DJM-700-K /KUCXJ	DJM-700-K /WYXJ5	DJM-700-K /RLXJ
	1	Operating Instructions (English)	DRB1426	Not used	Not used	DRB1426	Not used	Not used
	2	Operating Instructions (English, French, German, Italian, Dutch, Spanish, Russian)	Not used	DRB1425	Not used	Not used	DRB1425	Not used
	3	Operating Instructions (English, Spanish, Chinese)	Not used	Not used	DRB1427	Not used	Not used	DRB1427
NSP	4	Warranty Card	ARY7043	ARY7107	Not used	ARY7043	ARY7107	Not used
	10	Carton Box	DHG2690	DHG2689	DHG2691	DHG2696	DHG2695	DHG2715

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	DWX2674
	2	INPUT Assy	DWX2675
	3	MIC1 JACK Assy	DWX2685
	4	MIC VR Assy	DWX2686
	5	OUTPUT Assy	DWX2676
⚠	6	PRIMARY Assy	See Contrast table (2)
	7	TRANS Assy	See Contrast table (2)
	8	REG Assy	DWX2689
	9	HP JACK Assy	DWX2690
⚠	10	Fuse (FU1901:T500mA)	AEK1051
⚠	11	Power Transformer	See Contrast table (2)
⚠	12	AC Power Cord	See Contrast table (2)
	13	Short Pin Plug	AKM7008
	14	30P FFC	DDD1362
	15	16P FFC	DDD1363
	16	11P FFC	DDD1366
	17	27P FFC	DDD1367
	18	31P FFC	DDD1368
	19	9P FFC	DDD1364
	20	Connector Assy	DKP3787
	21	Connector Assy	PF04PP-D27
	22	Connector Assy	PF06PP-D10
	23	Connector Assy	PF07PP-S12
	24	Connector Assy	PF08PP-D12
	25	Connector Assy	PF10EE-S22
	26	Connector Assy	PF11PP-D10
NSP	27	Label	See Contrast table (2)
	28	Trim Stay	DNF1765
	29	MIC VR Stay	DNF1766
	30	HP Stay	DNF1767
	31	Input Shield	DNF1770
	32	Power Cord Stay	DNF1792
	33	Side Panel L	DNK4945
	34	Side Panel R	See Contrast table (2)
	35	Extension Shaft	DNK4948
NSP	36	V Select Label	See Contrast table (2)
	37	Stopper (Screw)	DNK5084
	38	Chassis Assy	See Contrast table (2)
	39	Foot Assy	REC-434
	40	Spacer	AEB7092
	41	PCB Mold (PP)	AMR2534
	42	Cord Stopper	See Contrast table (2)
	43	Spacer	DEC2369
	44	Locking Mini Clamp	DEC2439
	45	•••••	
	46	Washer	DEC2920
	47	•••••	
	48	•••••	
	49	Bottom Sheet A	DEC3020
	50	Bottom Sheet B	DEC3021
	51	Bottom Sheet C	DEC3022
	52	•••••	
NSP	53	Label	See Contrast table (2)
	54	Button (POWER)	DAC2394
	55	Power Knob Guard	DNK4534
	56	Binder	ZCA-SKB90BK
	57	Terminal Screw	AKE-031
	58	Knob (BLACK)	DAA1212
	59	•••••	
	60	Screw	BBZ30P060FTB
	61	Screw	BBZ40P060FTB
	62	Screw	BCZ30P140FTC
	63	Screw	BPZ30P080FTB
	64	Screw	See Contrast table (2)
	65	•••••	
	66	Screw	PMH30P100FTB
	67	Flange Nut M9	DBN1008
	68	Flange Nut M12	DBN1012
	69	Nut M12	NKX2FNI

(2) CONTRAST TABLE

DJM-700-S/KUCXJ, WYXJ5, RLXJ, DJM-700-K/KUCXJ, WYXJ5 and RLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-700-S /KUCXJ	DJM-700-S /WYXJ5	DJM-700-S /RLXJ	DJM-700-K /KUCXJ	DJM-700-K /WYXJ5	DJM-700-K /RLXJ
⚠	6	PRIMARY Assy	DWX2687	DWX2687	DWX2692	DWX2687	DWX2687	DWX2692
	7	TRANS Assy	DWX2688	DWX2688	DWX2757	DWX2688	DWX2688	DWX2757
⚠	11	Power Transformer	DTT1209	DTT1208	DTT1208	DTT1209	DTT1208	DTT1208
⚠	12	AC Power Cord	VDG1075	Not used	Not used	VDG1075	Not used	Not used
⚠	12	Power Cord with Plug	Not used	VDG1061	VDG1061	Not used	VDG1061	VDG1061
NSP	27	Label	DRW1975	Not used	Not used	DRW1975	Not used	Not used
	34	Side Panel R	DNK4946	DNK4946	DNK4947	DNK4946	DNK4946	DNK4947
NSP	36	V Select Label	Not used	Not used	DRW2349	Not used	Not used	DRW2349
	38	Chassis Assy	DXB1952	DXB1951	DXB1951	DXB1952	DXB1951	DXB1951
	42	Cord Stopper	CM-22C	CM-22B	CM-22B	CM-22C	CM-22B	CM-22B
NSP	53	Label	DRW2351	DRW2350	DRW2352	DRW2357	DRW2356	DRW2358
	64	Screw	CCZ30P060FNI	CCZ30P060FNI	CCZ30P060FNI	CCZ30P060FTB	CCZ30P060FTB	CCZ30P060FTB

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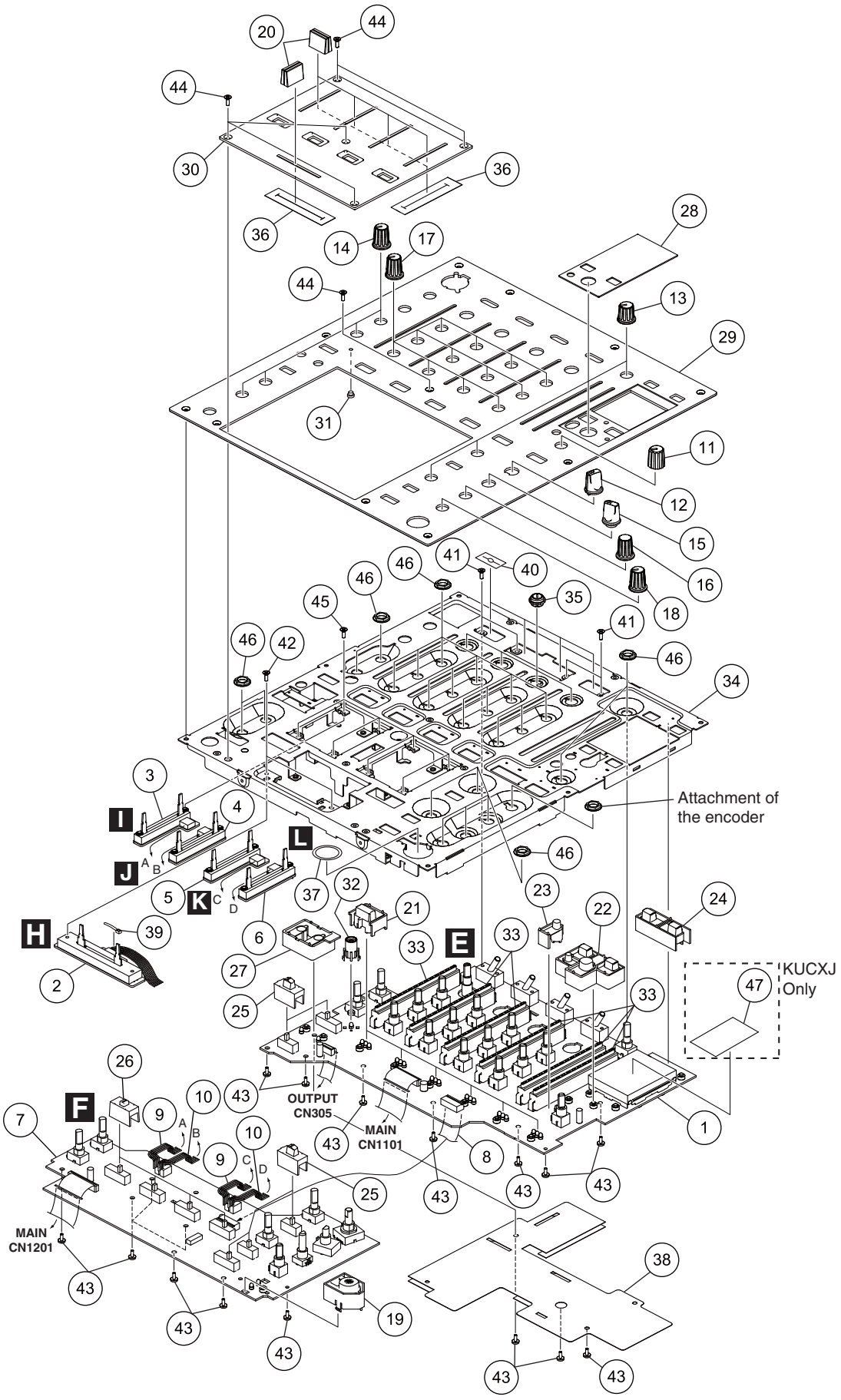
9.3 CONTROL PANEL SECTION



(1) CONTROL PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	PANEL 1 Assy	DWX2677
	2	FADER (CROSS) Assy	DWX2680
	3	FADER (CH1) Assy	DWX2681
	4	FADER (CH2) Assy	DWX2682
	5	FADER (CH3) Assy	DWX2683
	6	FADER (CH4) Assy	DWX2684
	7	PANEL 2 Assy	DWX2678
	8	13P FFC	DDD1369
	9	Connector Assy	PF04PP-B05
	10	Connector Assy	PF04PP4B05
	11	Rotary SW Knob (HM)	DAA1197
	12	Select Knob	DAA1205
	13	Knob (MA)	DAA1210
	14	Knob (BLACK)	DAA1212
	15	FX SEL Knob	DAA1213
	16	Knob (TIME)	DAA1214
	17	Rotary SW Knob (G)	DAA1219
	18	Rotary Knob (BN)	DAA1220
	19	Effect Knob	DAC2304
	20	Slider Knob (L2)	DAC2371
	21	Button (CUE)	DAC2395
	22	Button (TAP)	DAC2397
	23	Button (FL)	DAC2398
	24	Button (MIDI)	DAC2399
	25	Slide SW Cap	DAC2400
	26	Slide SW Cap (W)	DAC2401
	27	Button (FS)	DAC2422
	28	Display Window	See Contrast table (2)
	29	Control Panel	See Contrast table (2)
	30	Fader Panel	See Contrast table (2)
	31	Lens	DNK4532
	32	Lens Holder	DNK4533
	33	Level Meter Assy	DXB1882
	34	Panel Stay	DNF1764
	35	Bush	DNK4996
	36	Fader Packing	DEC2903
	37	SW Packing	DEC2929
	38	Barrier (PANEL)	DEC3009
	39	Binder	ZCA-SKB90BK
	40	SW Packing	DED1177
	41	Screw	AMZ26P040FTC
	42	Screw	AMZ30P040FTC
	43	Screw	BBZ30P060FTB
	44	Screw	See Contrast table (2)
	45	Screw	PMA20P040FTC
	46	Flange Nut M9	DBN1008
	47	Barrier (FL)	See Contrast table (2)

(2) CONTRAST TABLE

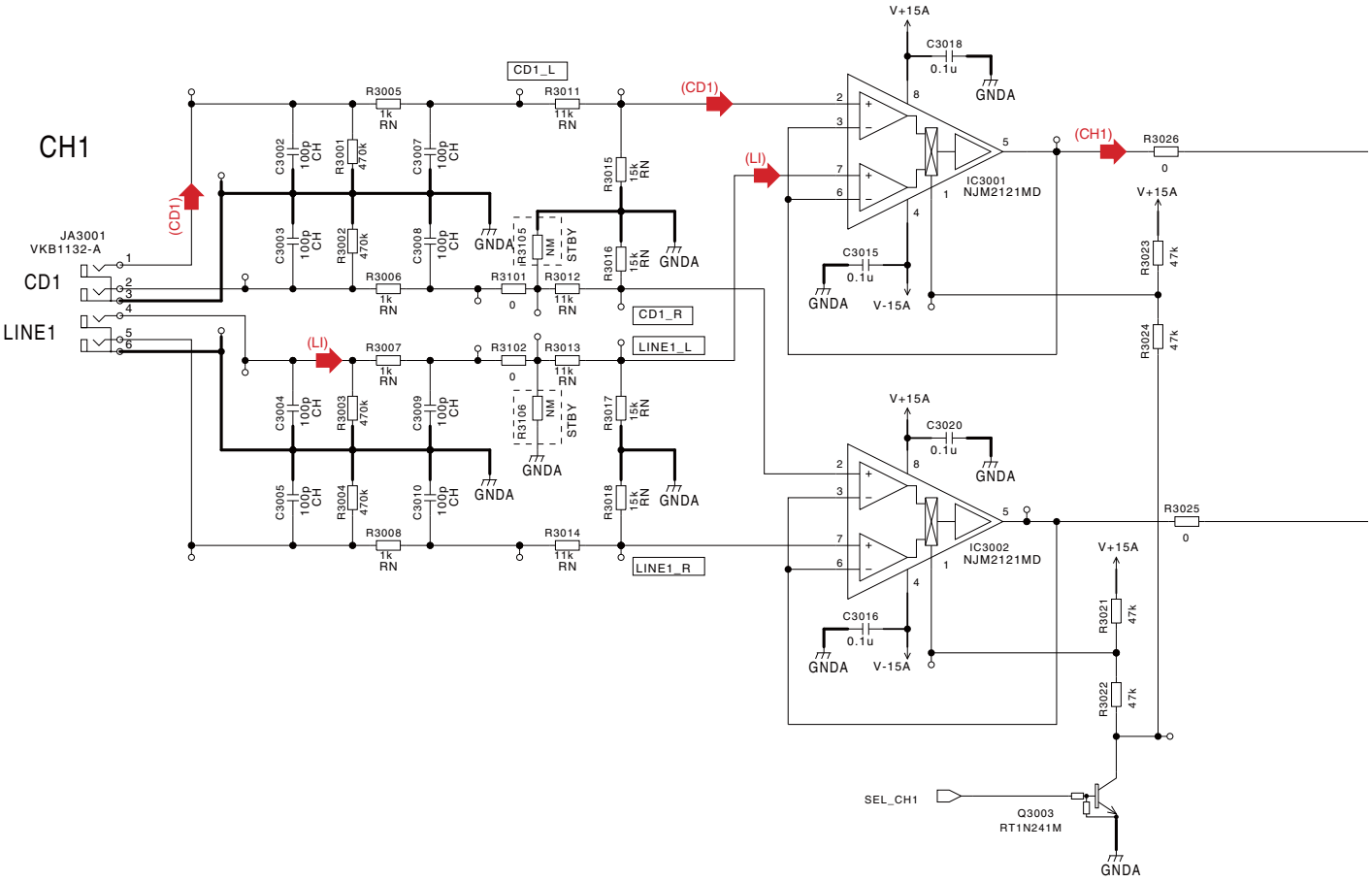
DJM-700-S/KUCXJ, WYXJ5, RLXJ, DJM-700-K/KUCXJ, WYXJ5 and RLXJ are constructed the same except for the following:

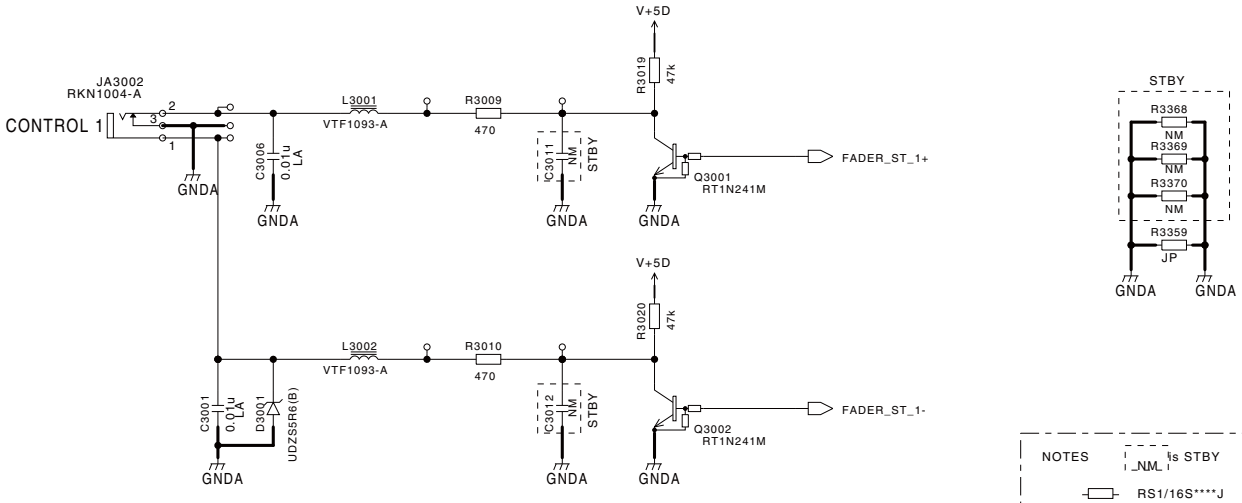
Mark	No.	Symbol and Description	DJM-700-S /KUCXJ	DJM-700-S /WYXJ5	DJM-700-S /RLXJ	DJM-700-K /KUCXJ	DJM-700-K /WYXJ5	DJM-700-K /RLXJ
	28	Display Window S	DAH2542	DAH2542	DAH2542	Not used	Not used	Not used
	28	Display Window B	Not used	Not used	Not used	DAH2543	DAH2543	DAH2543
	29	Control Panel	DNB1152	DNB1152	DNB1152	Not used	Not used	Not used
	29	Control Panel B	Not used	Not used	Not used	DNB1153	DNB1153	DNB1153
	30	Fader Panel	DNB1154	DNB1154	DNB1154	Not used	Not used	Not used
	30	Fader Panel B	Not used	Not used	Not used	DNB1155	DNB1155	DNB1155
	44	Screw	CCZ30P060FNI	CCZ30P060FNI	CCZ30P060FNI	CCZ30P060FTB	CCZ30P060FTB	CCZ30P060FTB
	47	Barrier (FL)	DEC3058	Not used	Not used	DEC3058	Not used	Not used

10. SCHEMATIC DIAGRAM

10.1 INPUT ASSY (1/6)

A 1/6 INPUT ASSY (DWX2675)

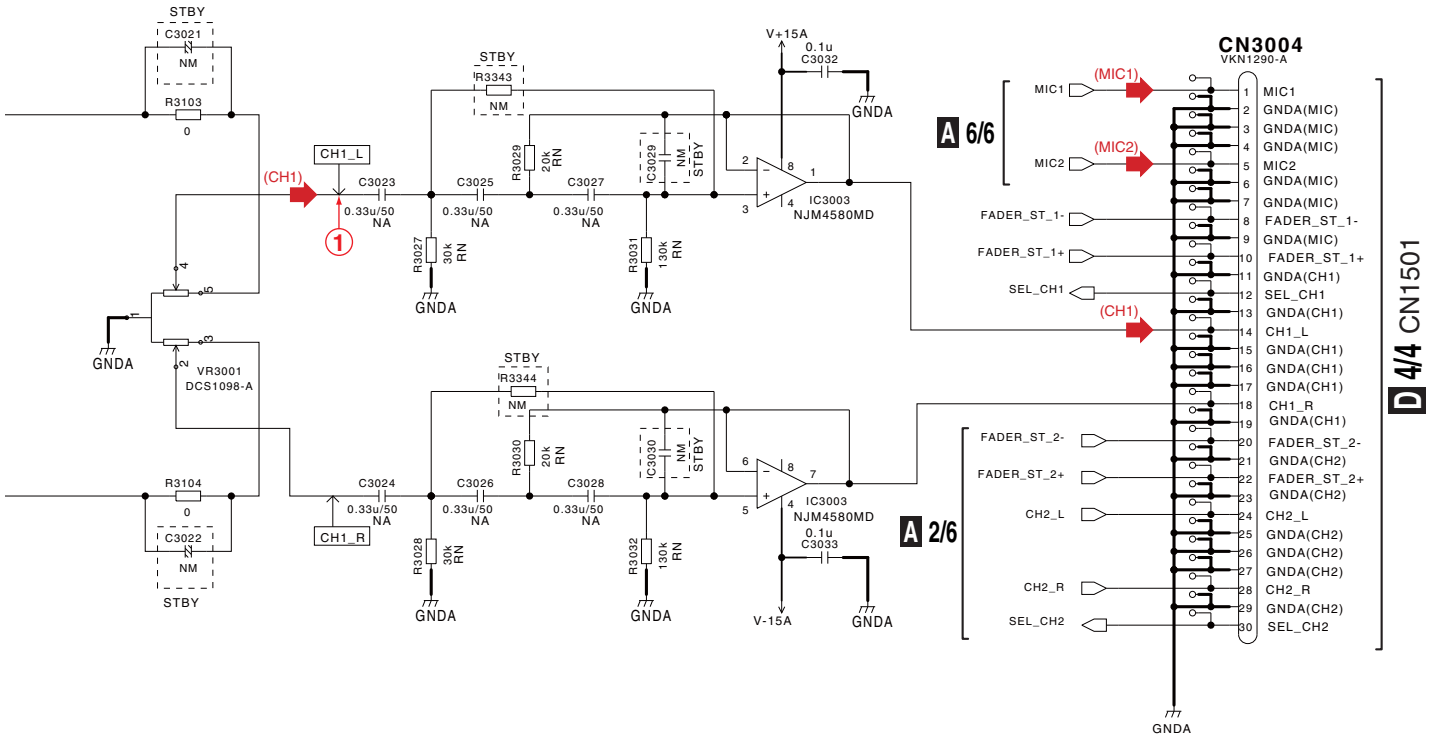




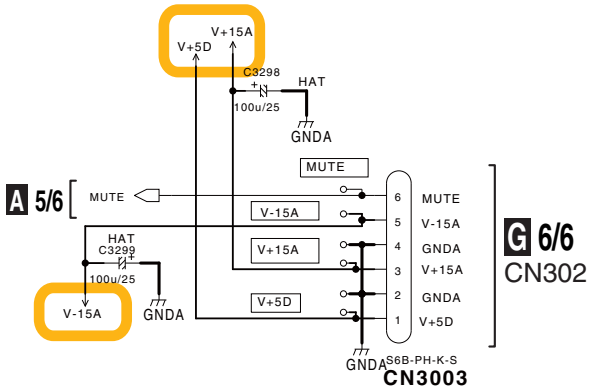
NOTES
_NM_ : is STBY

		RS1/16S****J
RN		RN1/16SE****D
		CKSRYB
CH		CCSRCH
LA		CFTLA
MA		CQMA
NA		CFTNA
		CEAT
LNP		CEALNP
HAT		CEHAT

A 1/6



	Low(0V)	Hi(3.3V)
SEL_CH1	CD	LINE



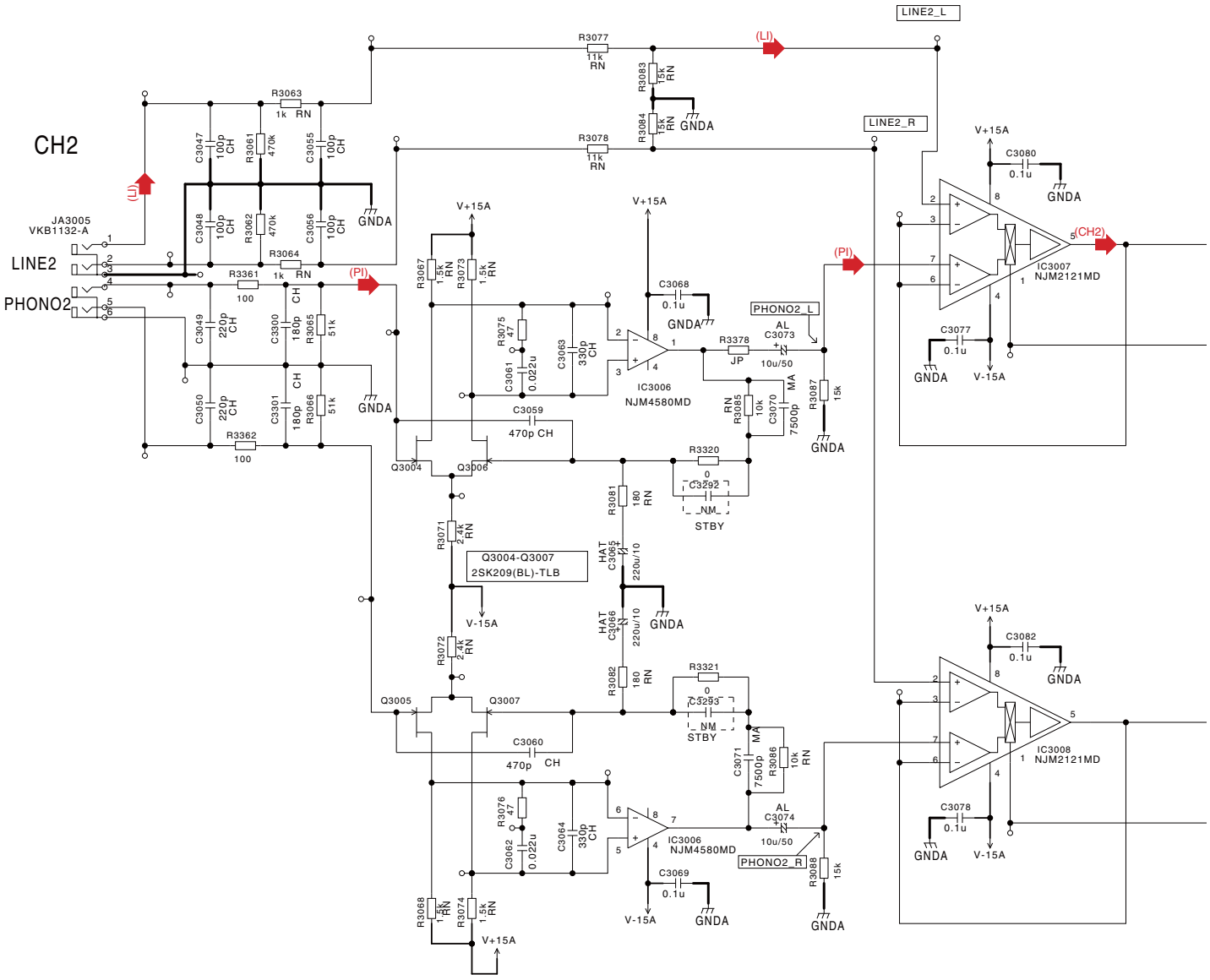
AUDIO SIGNAL ROUTE

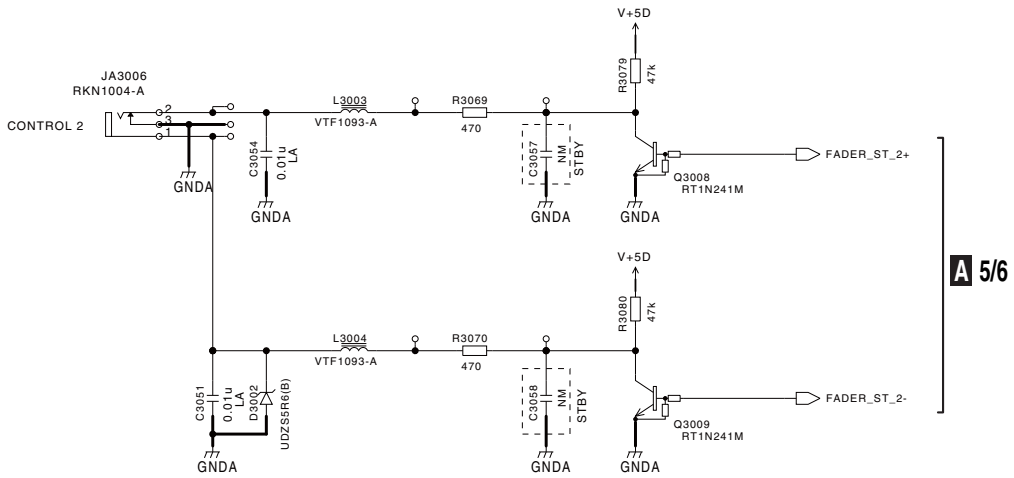
(CD1) : CD INPUT L CH SIGNAL
(LI) : LINE INPUT L CH SIGNAL
(CH1) : CH1 L CH SIGNAL
(MIC1) : MIC1 CH SIGNAL
(MIC2) : MIC2 CH SIGNAL

A 1/6

10.2 INPUT ASSY (2/6)

A 2/6 INPUT ASSY (DWX2675)



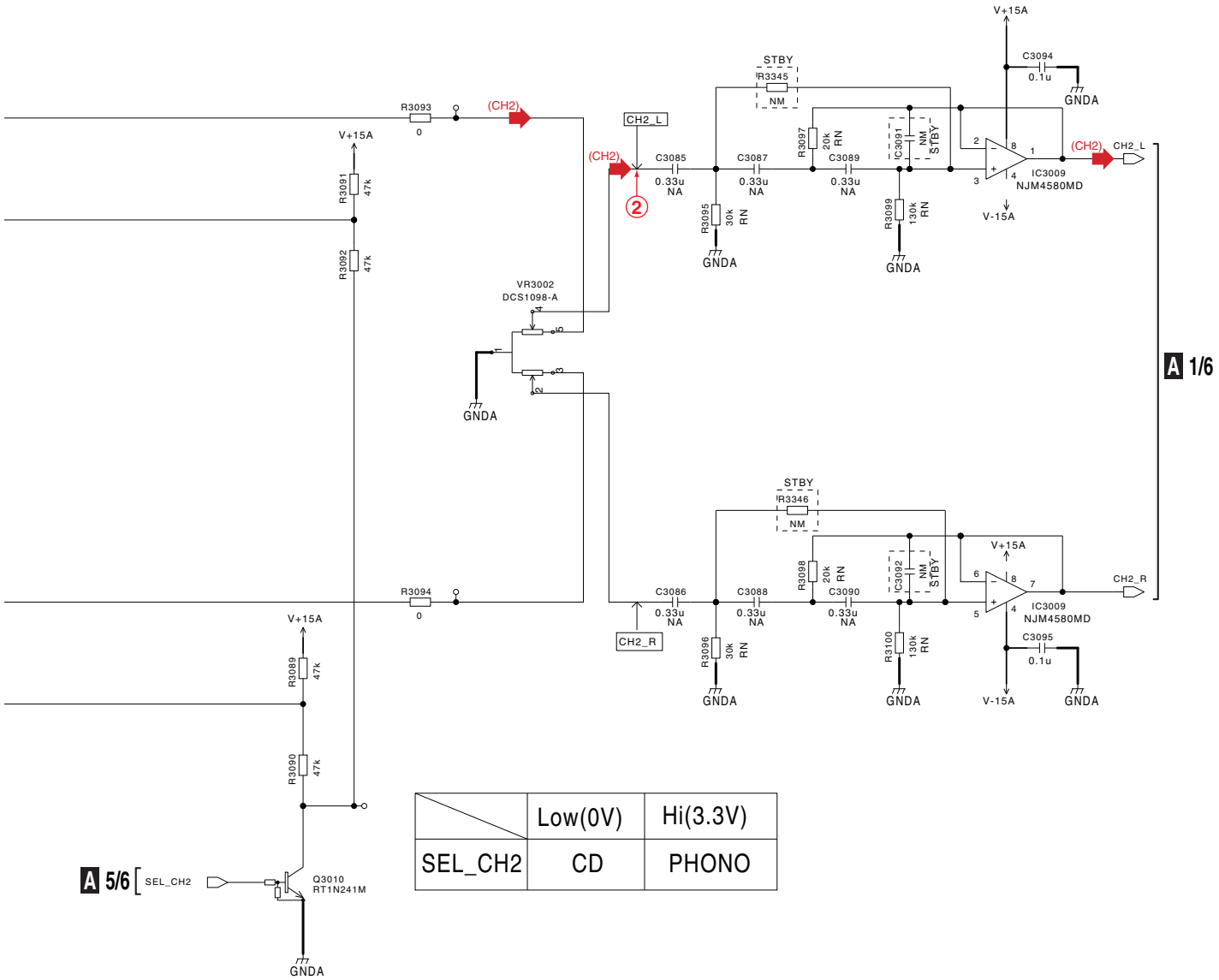


AUDIO SIGNAL ROUTE

(PI) : PHONO INPUT L CH SIGNAL

(LI) : LINE INPUT L CH SIGNAL

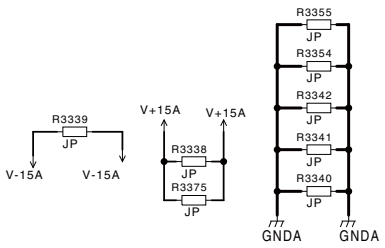
(CH2) : CH2 L CH SIGNAL



	Low(0V)	Hi(3.3V)
SEL_CH2	CD	PHONO

NOTES NM is STBY

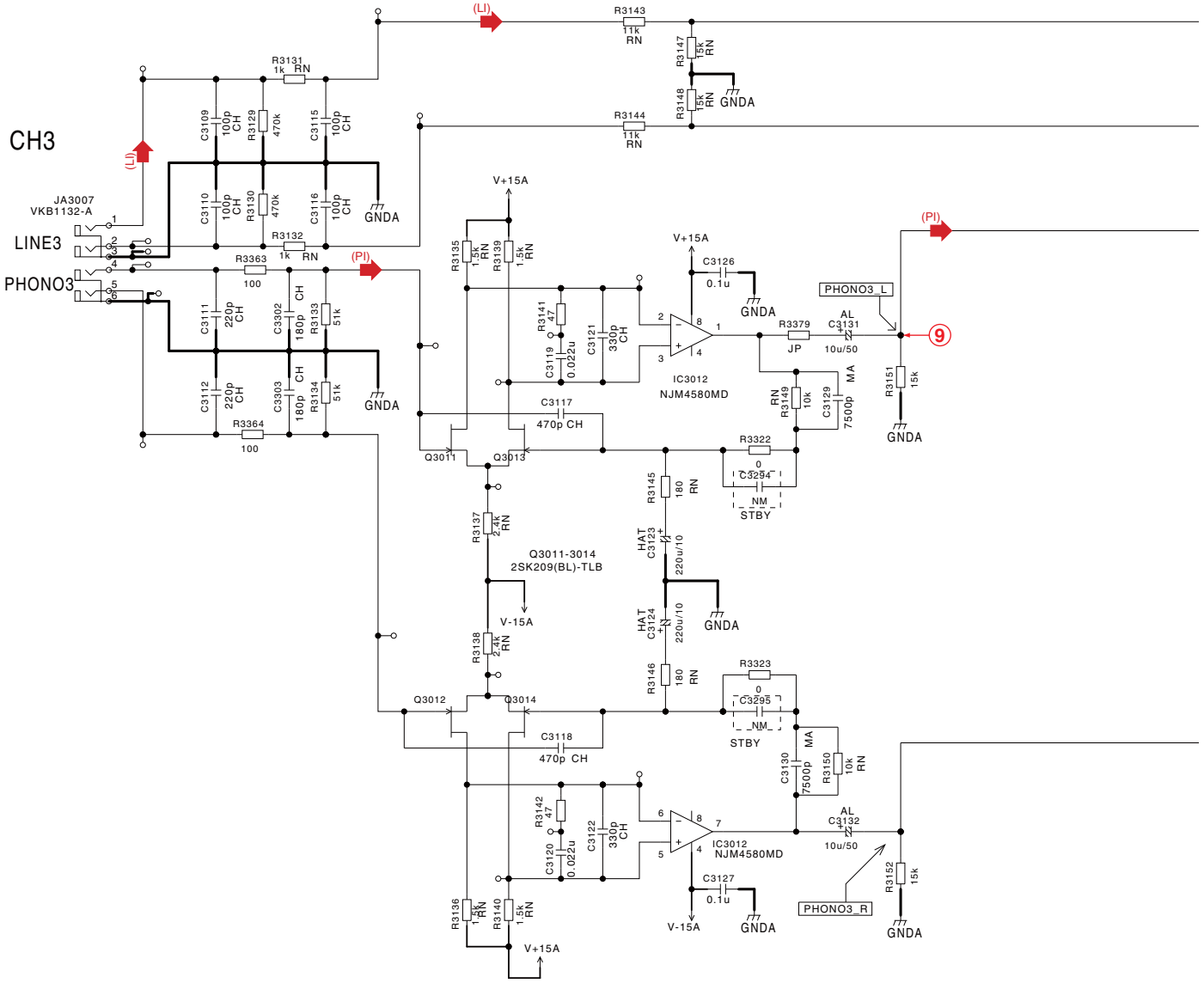
	RS1/16S****J	
RN	RN1/16SE****D	
	CKSRYB	
CH	CCSRCH	
LA	CFTLA	
MA	CQMA	
NA	CFTNA	
AL	CEAL	
HAT	CEHAT	



A 2/6

10.3 INPUT ASSY (3/6)

A 3/6 INPUT ASSY (DWX2675)



NOTES _NM_ is STBY

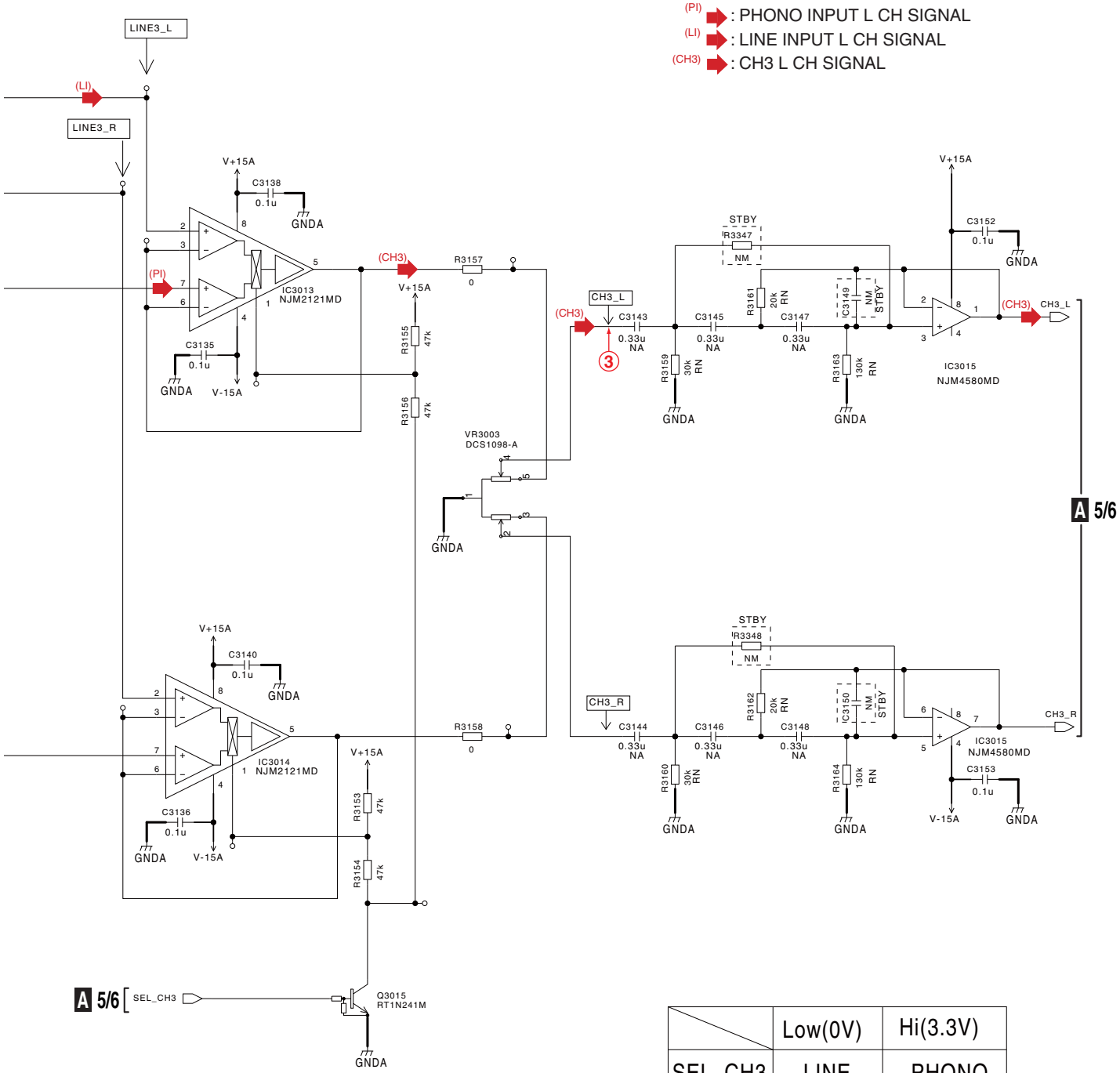
	RS1/16S****J
RN	RN1/16SE****D
	CKSRYB
CH	CCSRCH
MA	CQMA
NA	CFTNA
AL	CEAL
HAT	CEHAT

AUDIO SIGNAL ROUTE

(PI) : PHONO INPUT L CH SIGNAL

(LI) : LINE INPUT L CH SIGNAL

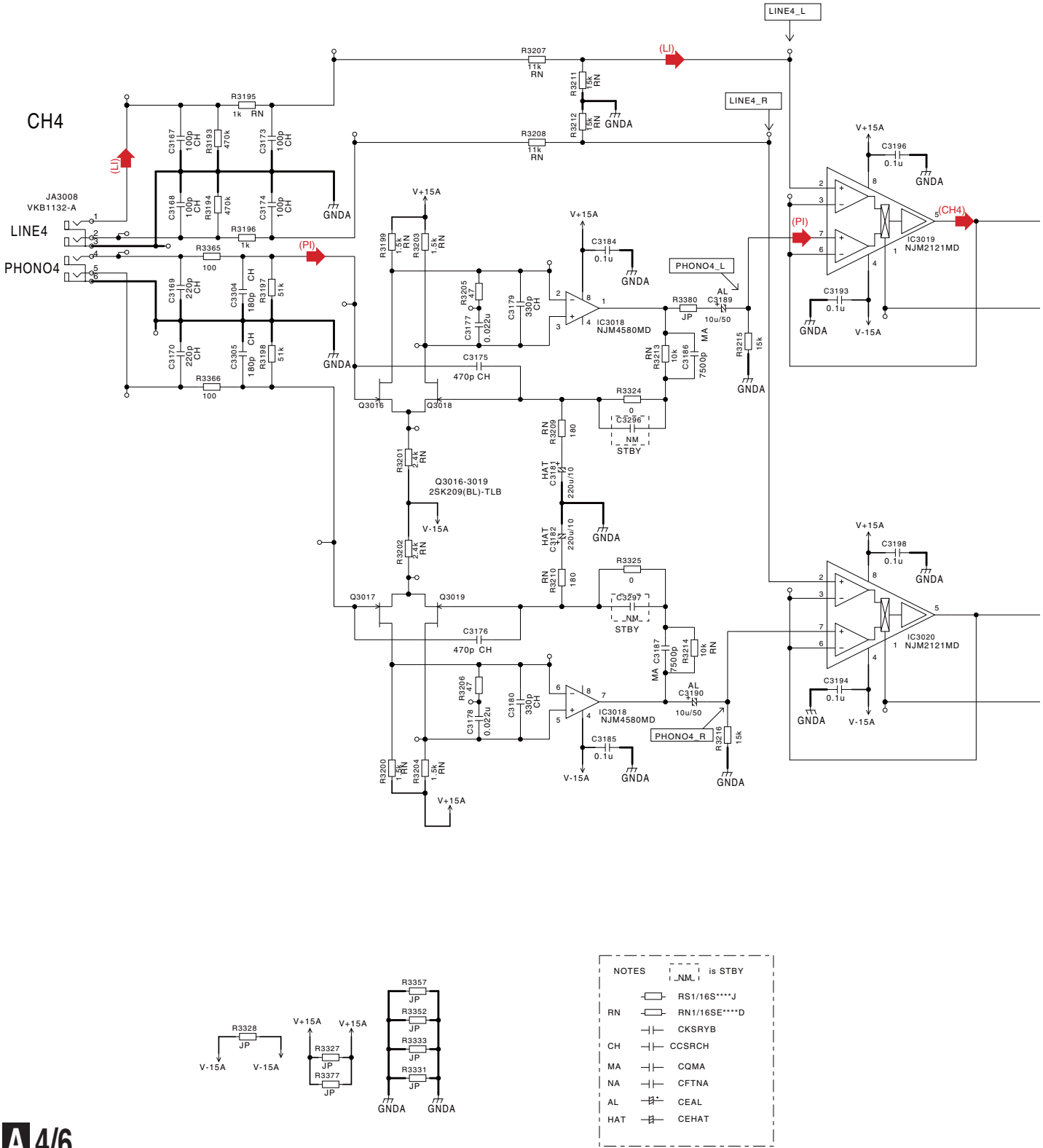
(CH3) : CH3 L CH SIGNAL



	Low(0V)	Hi(3.3V)
SEL_CH3	LINE	PHONO

10.4 INPUT ASSY (4/6)

A 4/6 INPUT ASSY (DWX2675)

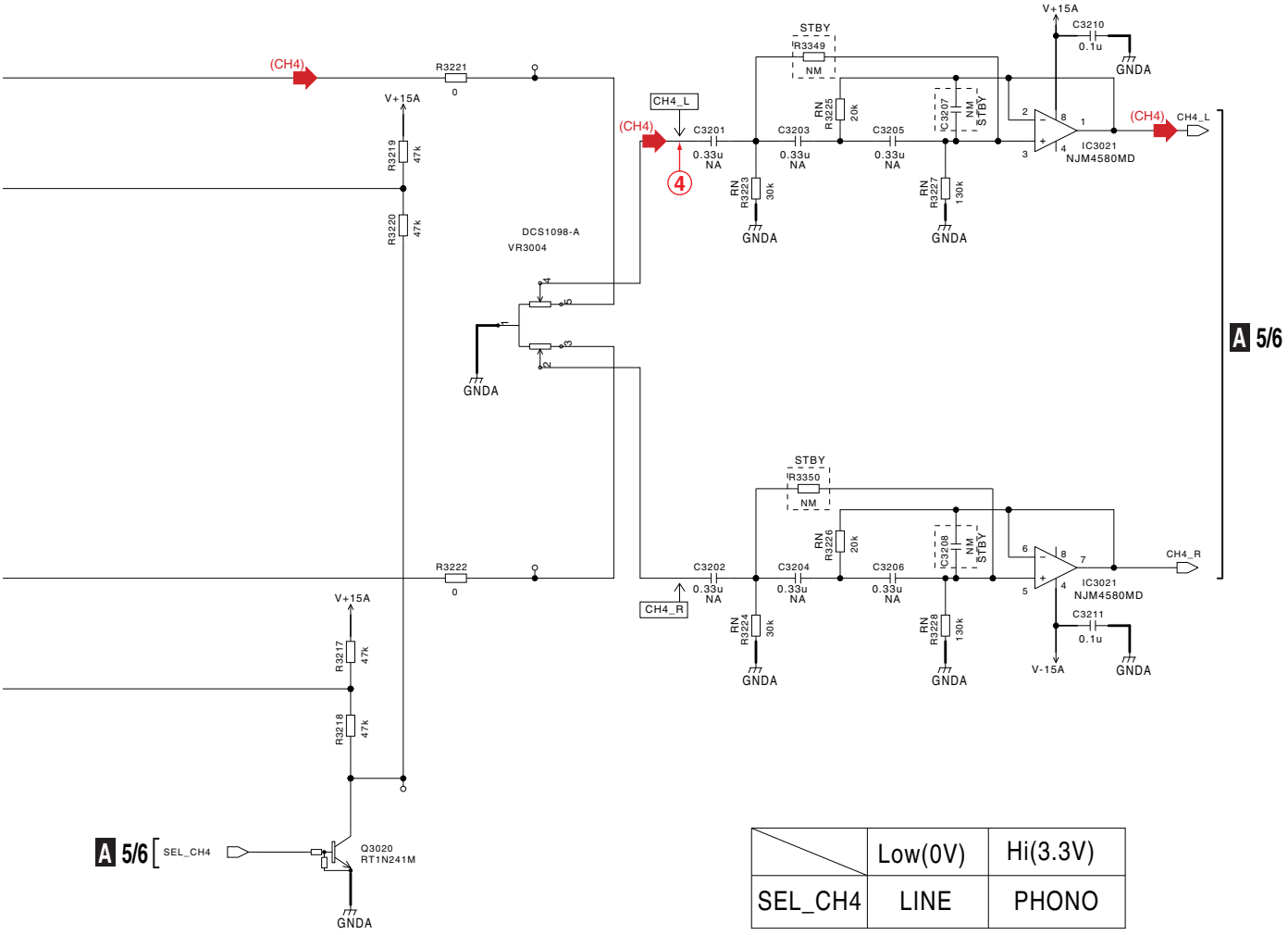


AUDIO SIGNAL ROUTE

(PI) : PHONO INPUT L CH SIGNAL

(LI) : LINE INPUT L CH SIGNAL

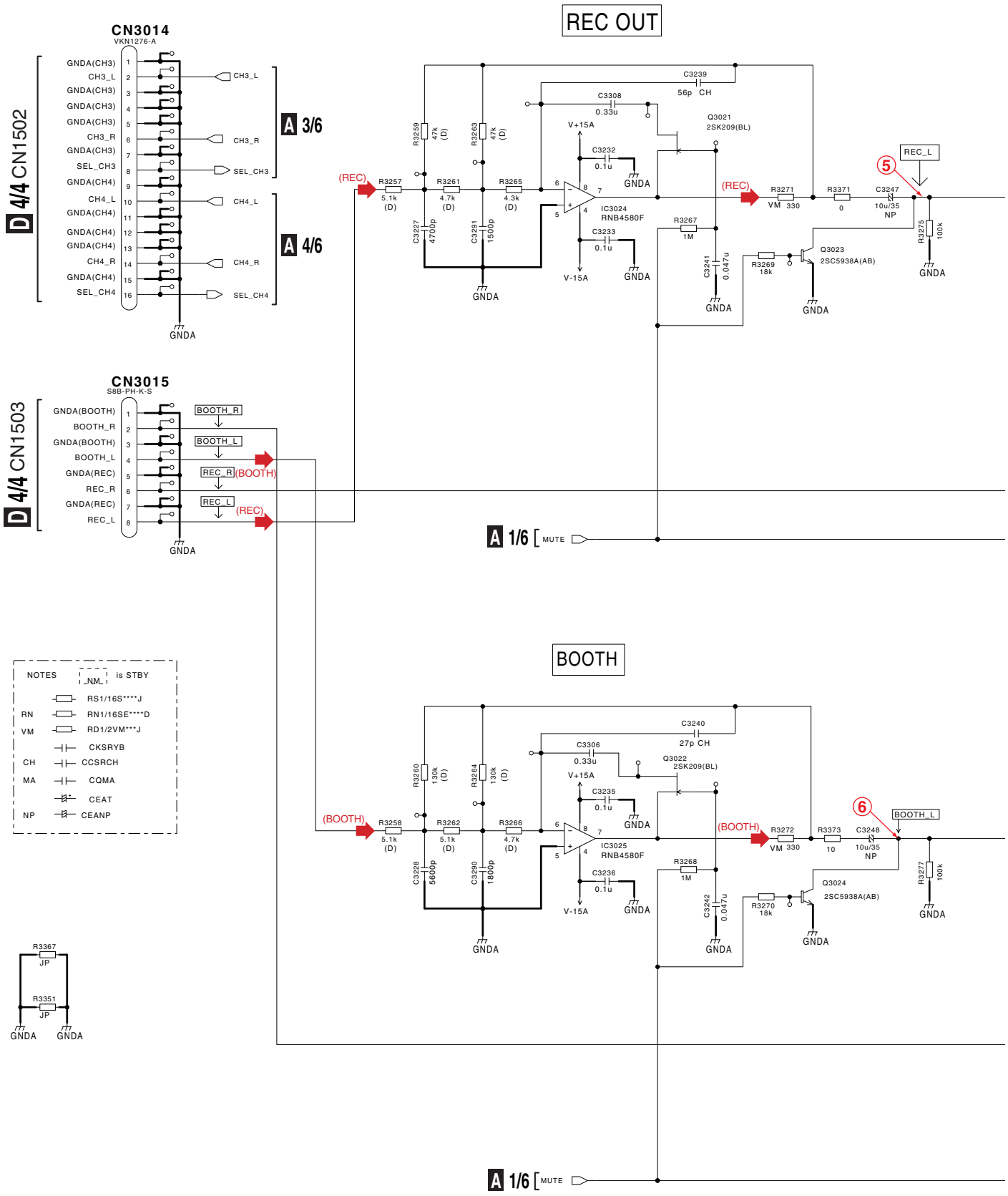
(CH4) : CH4 L CH SIGNAL



	Low(0V)	Hi(3.3V)
SEL_CH4	LINE	PHONO

10.5 INPUT ASSY (5/6)

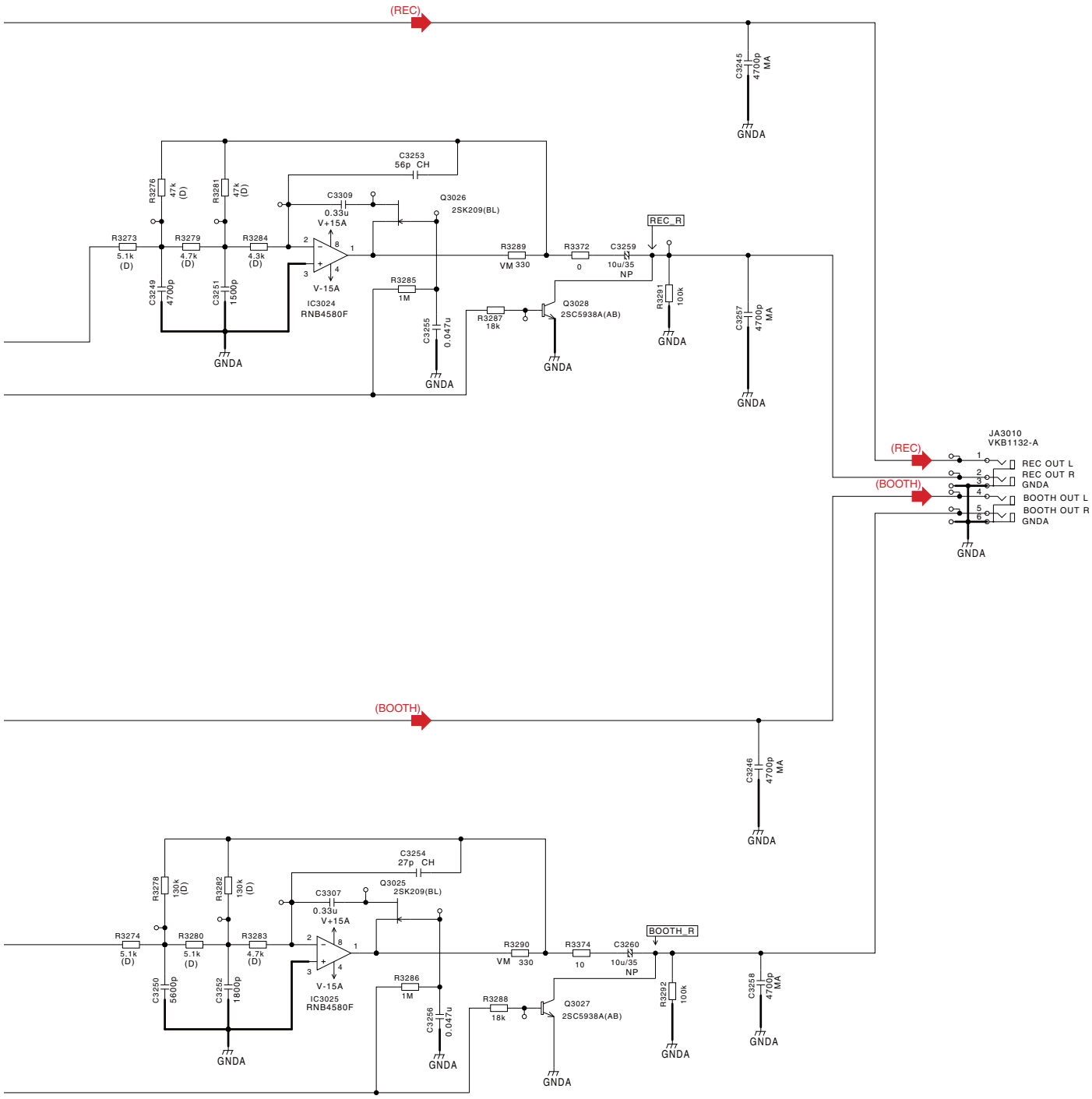
A 5/6 INPUT ASSY (DWX2675)



AUDIO SIGNAL ROUTE

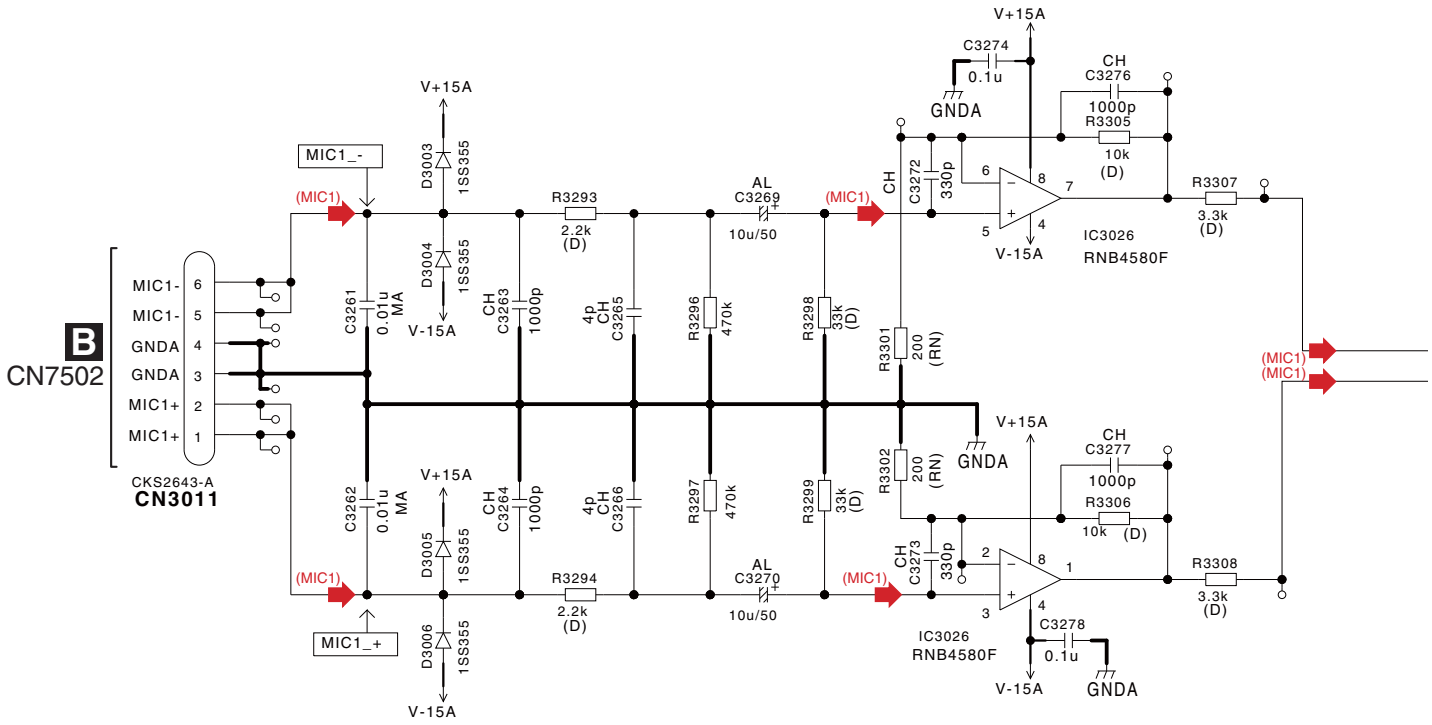
(REC) : REC L CH SIGNAL

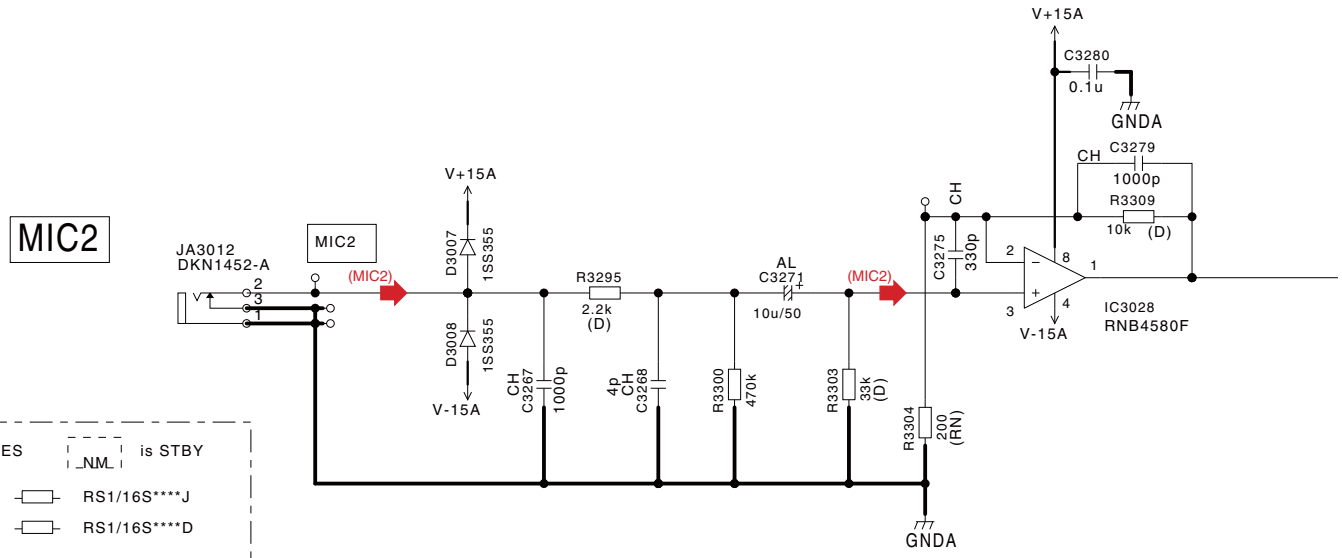
(BOOTH) : BOOTH L CH SIGNAL



10.6 INPUT ASSY (6/6)

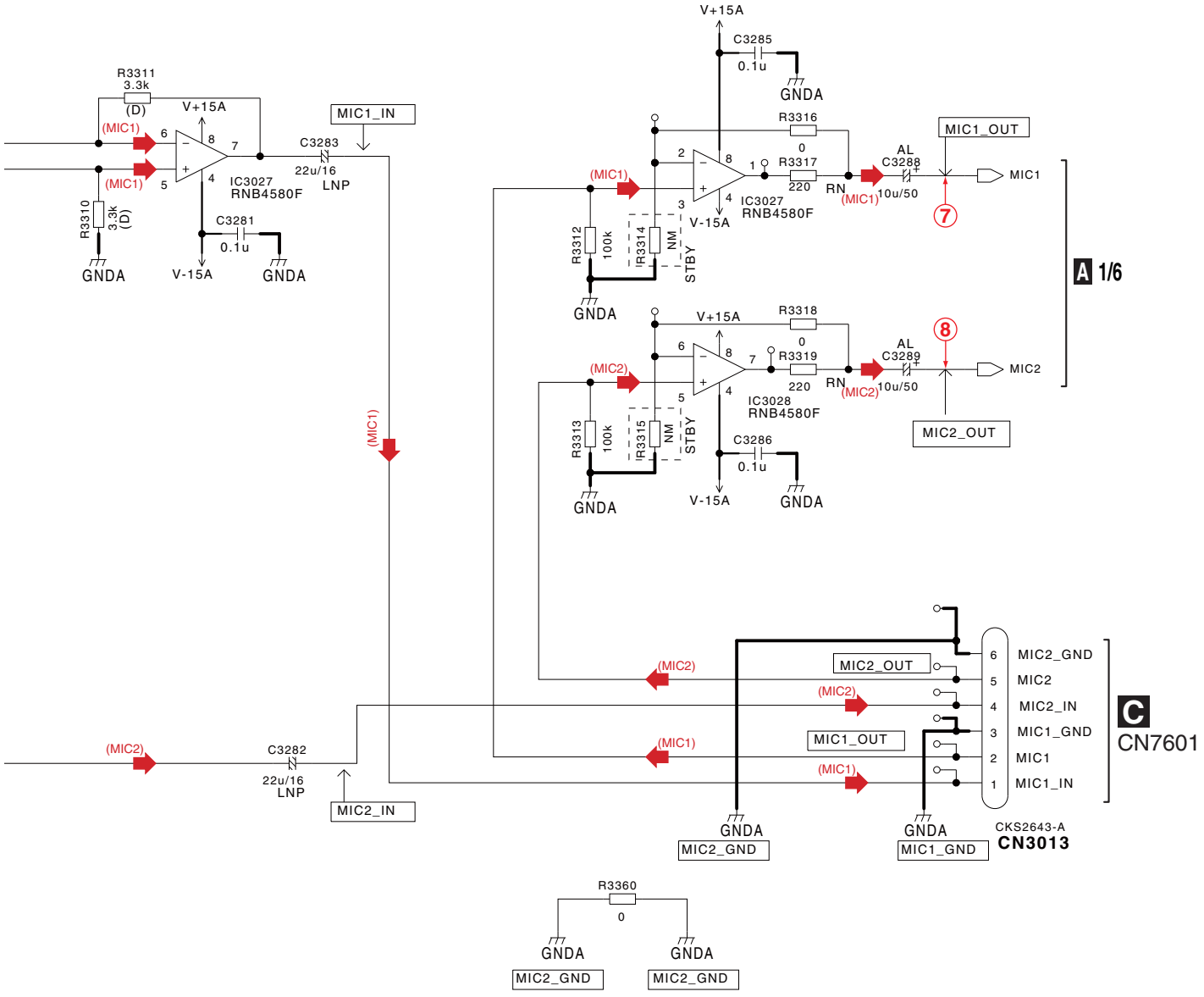
A 6/6 INPUT ASSY (DWX2675)





NOTES _NM_ is STBY

	RS1/16S****J
D	RS1/16S****D
RN	RN1/16SE****D
VM	RD1/2VM***J
	CKSRYB
CH	CCSRCH
MA	CQMA
AL	CEAL
LNP	CEALNP



AUDIO SIGNAL ROUTE

(MIC1) : MIC1 SIGNAL

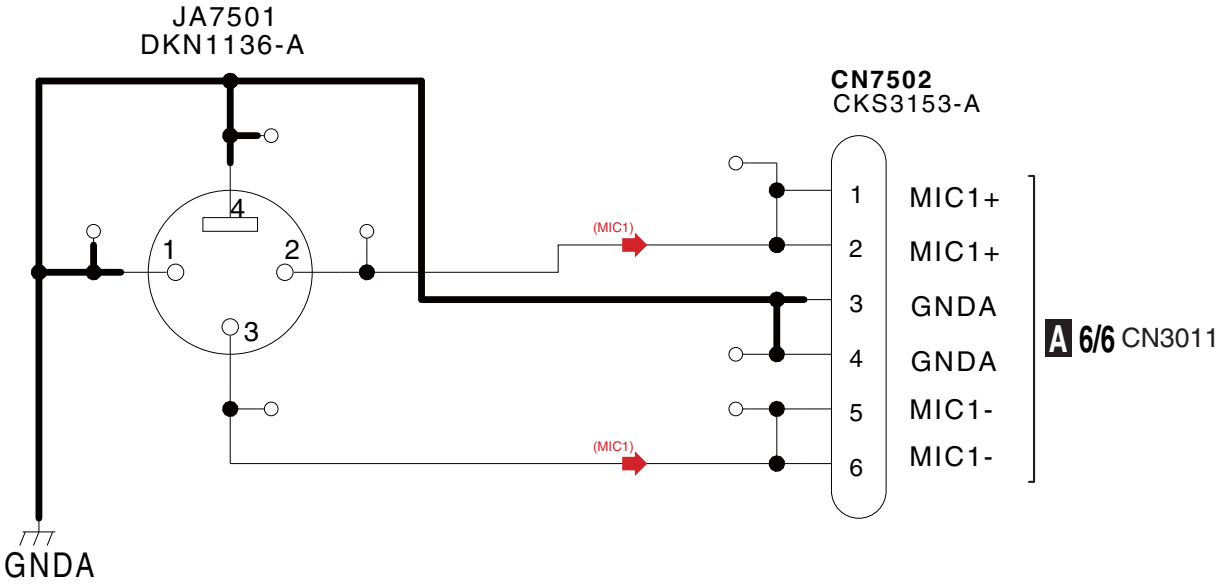
(MIC2) : MIC2 SIGNAL

A 6/6

10.7 MIC1 JACK ASSY

B MIC1 JACK ASSY (DWX2685)

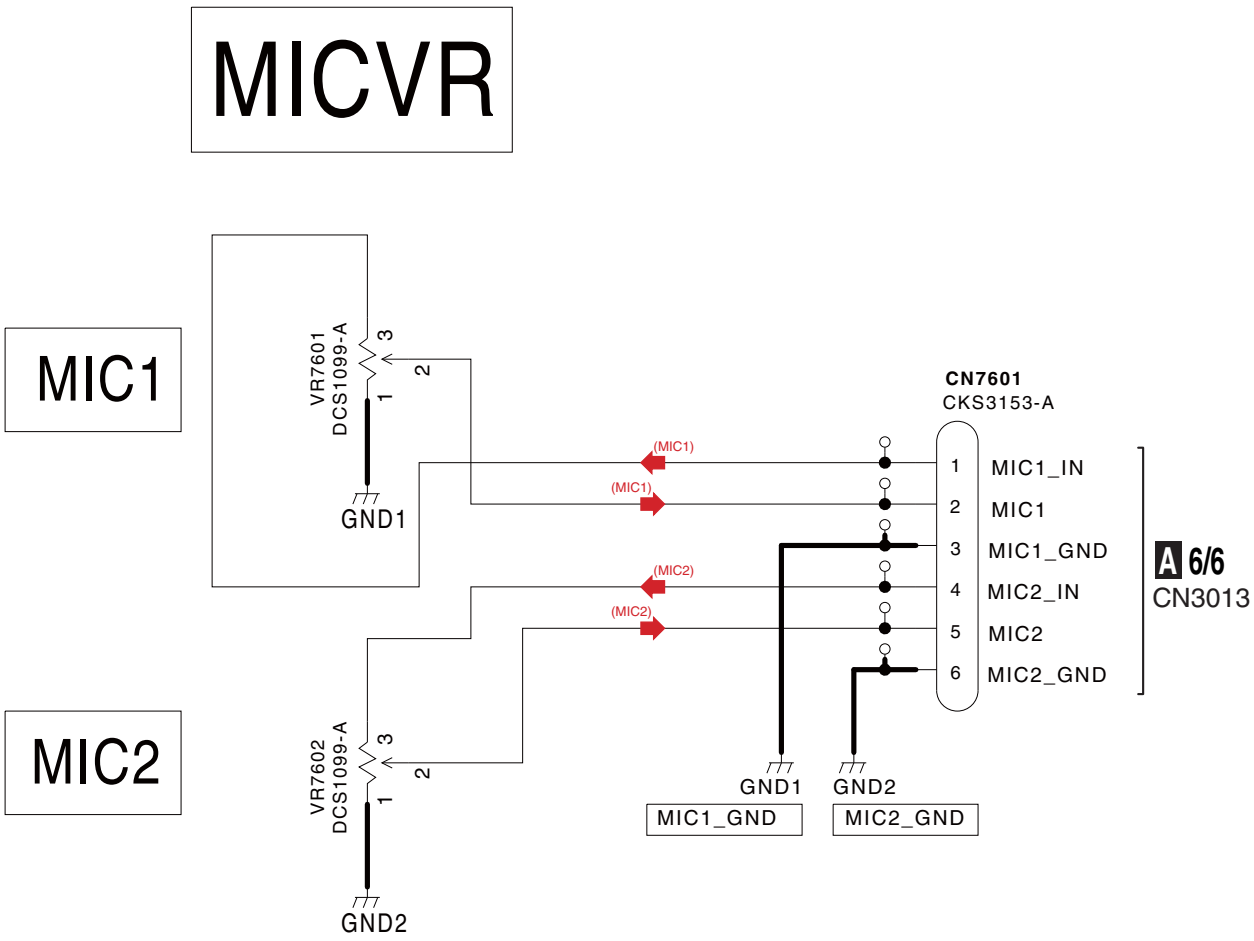
MIC1 JACK



AUDIO SIGNAL ROUTE
(MIC1) : MIC1 SIGNAL

10.8 MIC VR ASSY

C MIC VR ASSY (DWX2686)



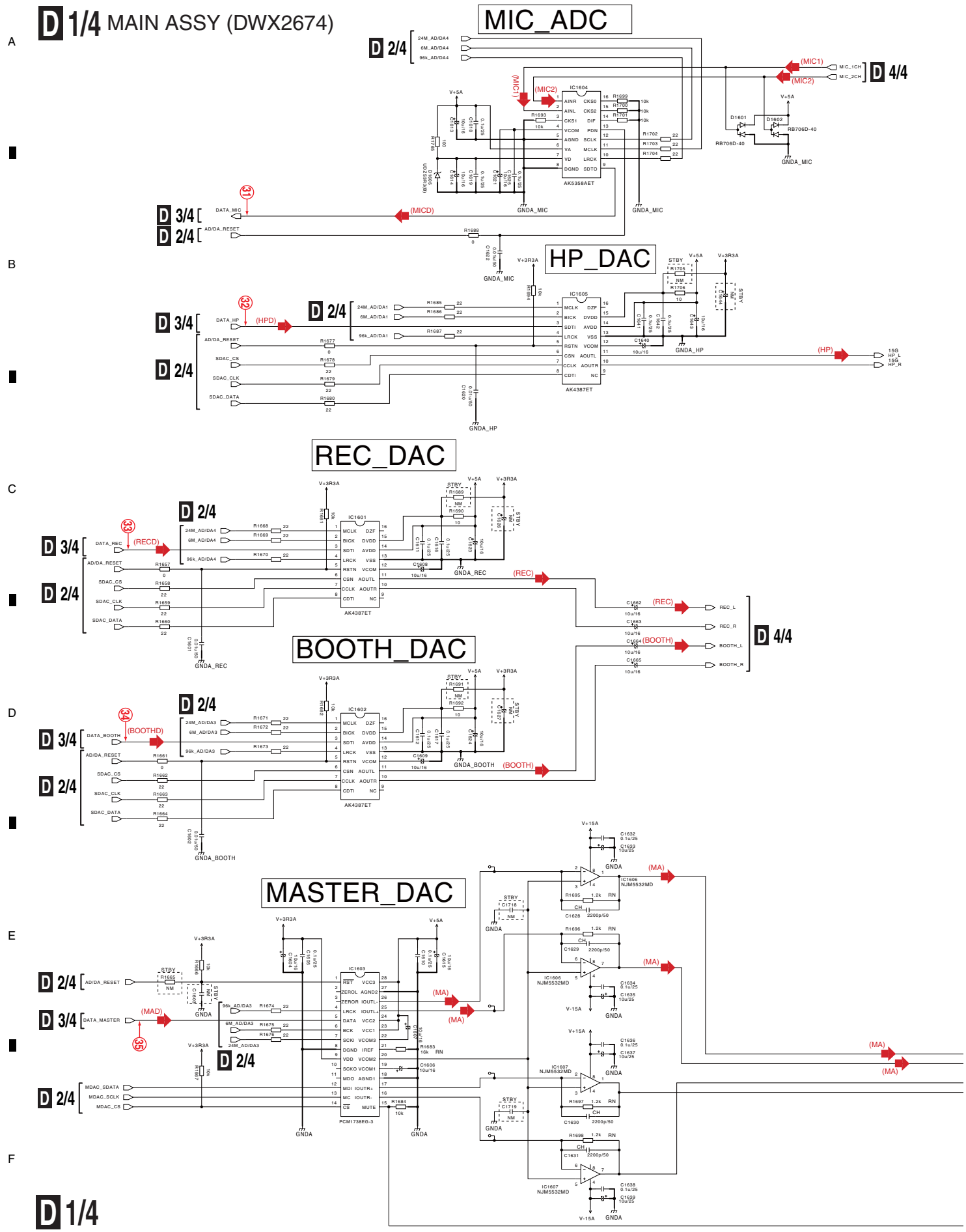
AUDIO SIGNAL ROUTE

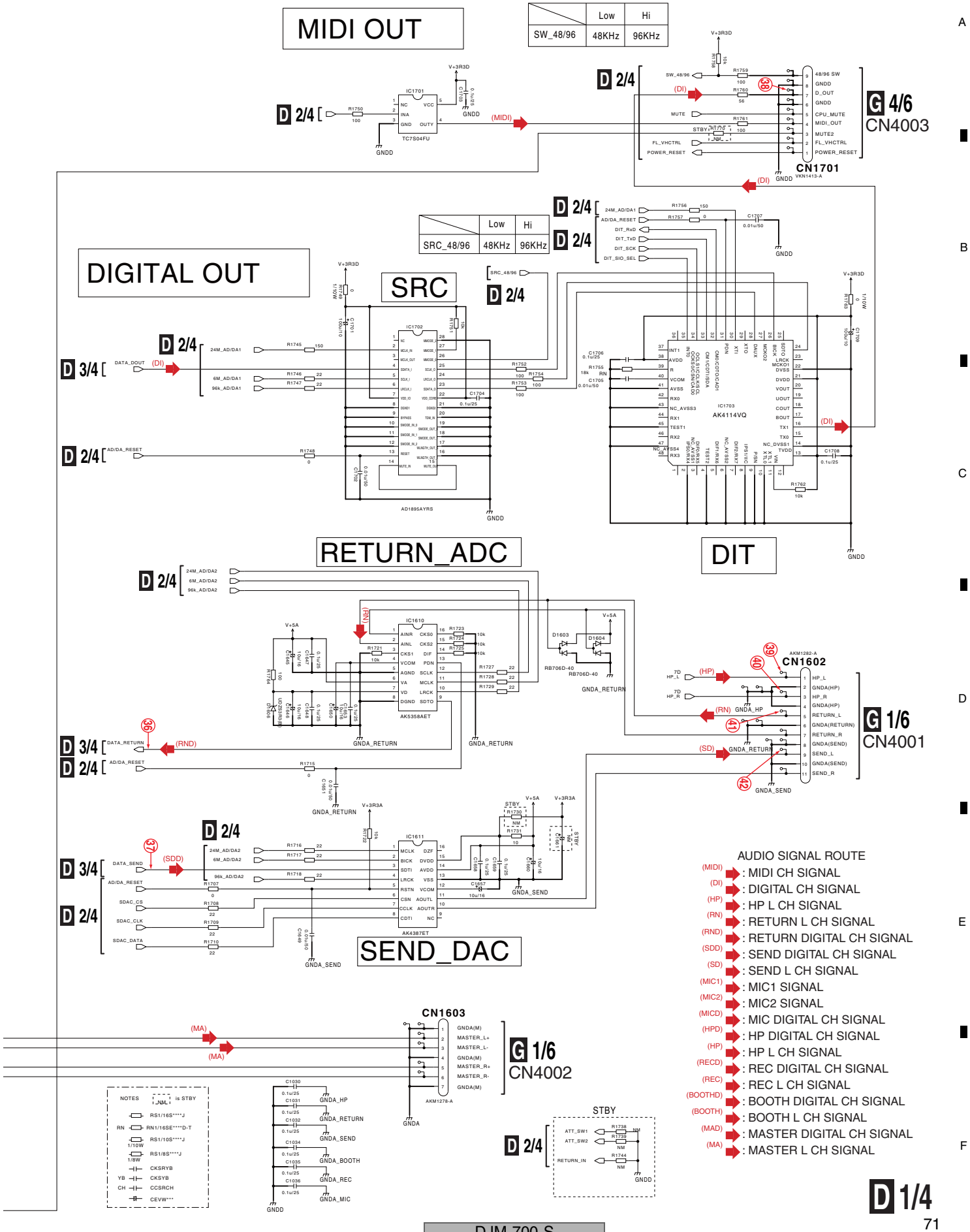
(MIC1) : MIC1 SIGNAL

(MIC2) : MIC2 SIGNAL

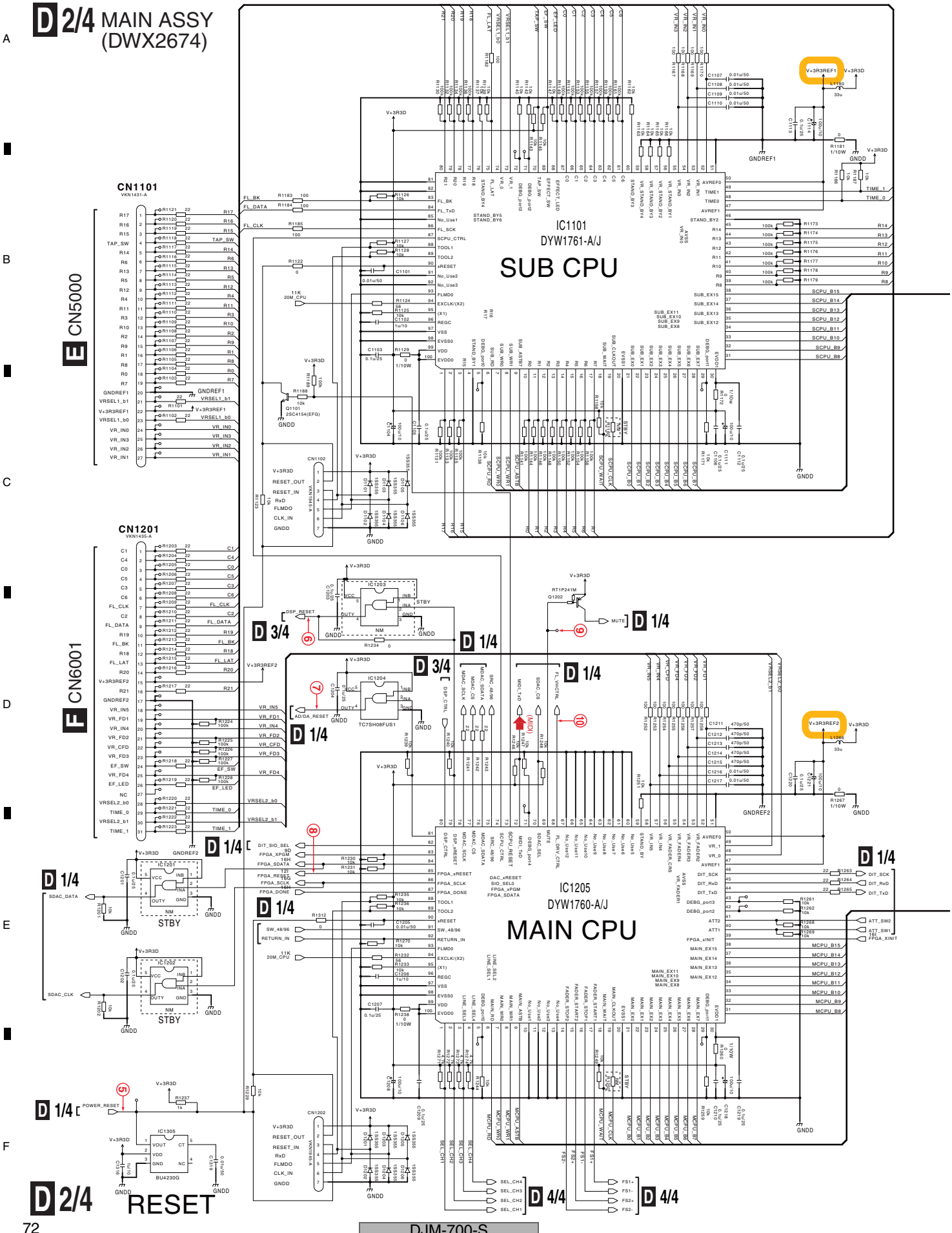
10.9 MAIN ASSY (1/4)

D 1/4 MAIN ASSY (DWX2674)

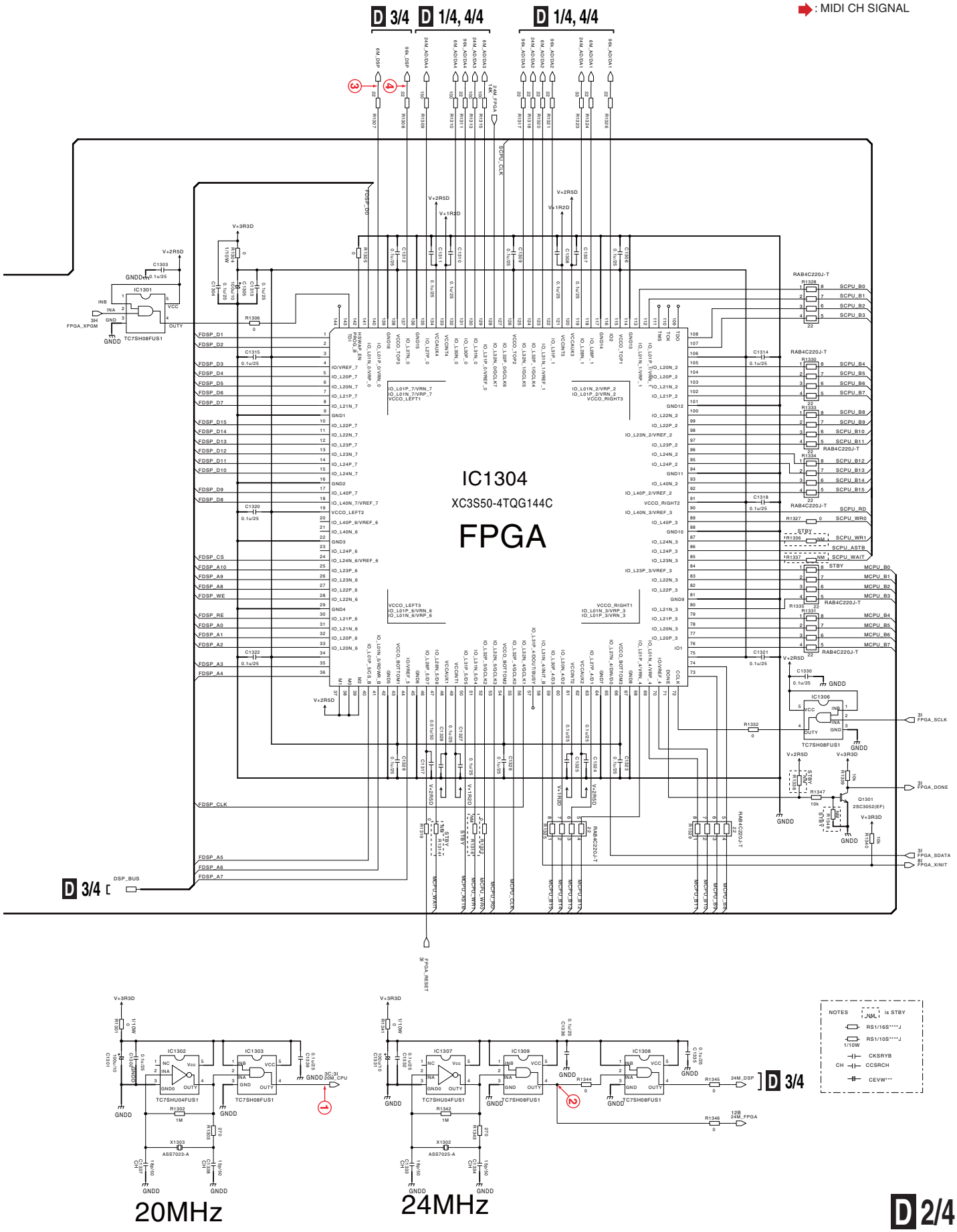



MIDI OUT
SW_48/96 | Low 48KHz | Hi 96KHz
DIGITAL OUT
SRC_48/96 | Low 48KHz | Hi 96KHz
SRC
DIT
RETURN_ADC
SEND_DAC
IC1701 TC7S04FU
IC1703 AD1895AYRS
IC1703 AK4114VQ
IC1610 AK5358AET
IC1611 AK4387ET
CN1701 VKN1413-A
CN1602 AKM1282-A
CN1603 AKM1278-A
CN4003
CN4001
CN4002
AUDIO SIGNAL ROUTE
(MIDI) : MIDI CH SIGNAL
(DI) : DIGITAL CH SIGNAL
(HP) : HP L CH SIGNAL
(RN) : RETURN L CH SIGNAL
(RND) : RETURN DIGITAL CH SIGNAL
(SDD) : SEND DIGITAL CH SIGNAL
(SD) : SEND L CH SIGNAL
(MIC1) : MIC1 SIGNAL
(MIC2) : MIC2 SIGNAL
(MICD) : MIC DIGITAL CH SIGNAL
(HPD) : HP DIGITAL CH SIGNAL
(HP) : HP L CH SIGNAL
(RECD) : REC DIGITAL CH SIGNAL
(REC) : REC L CH SIGNAL
(BOOTHD) : BOOTH DIGITAL CH SIGNAL
(BOOTH) : BOOTH L CH SIGNAL
(MAD) : MASTER DIGITAL CH SIGNAL
(MA) : MASTER L CH SIGNAL
NOTES
D 1/4

10.10 MAIN ASSY (2/4)

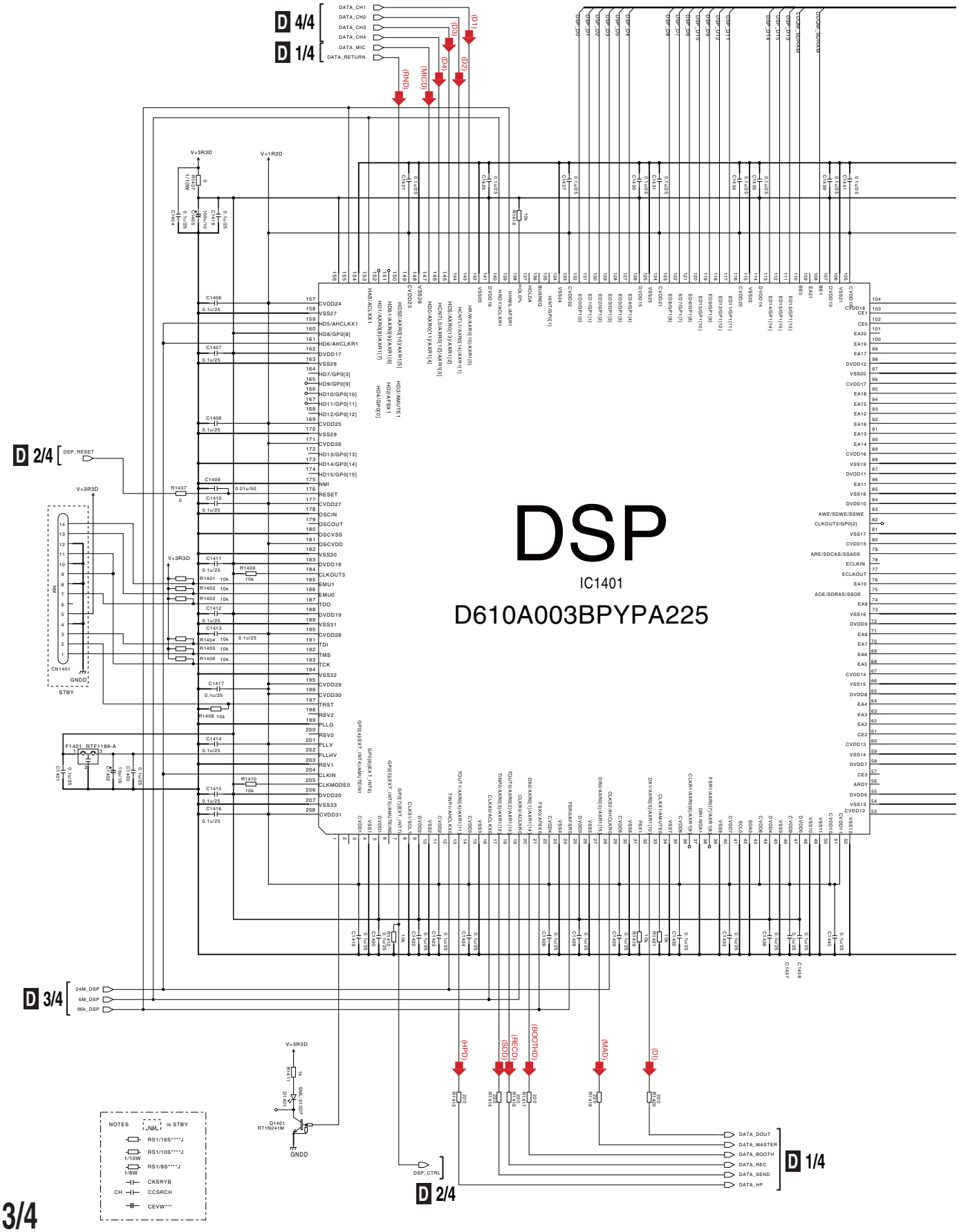


AUDIO SIGNAL ROUTE
: MIDI CH SIGNAL

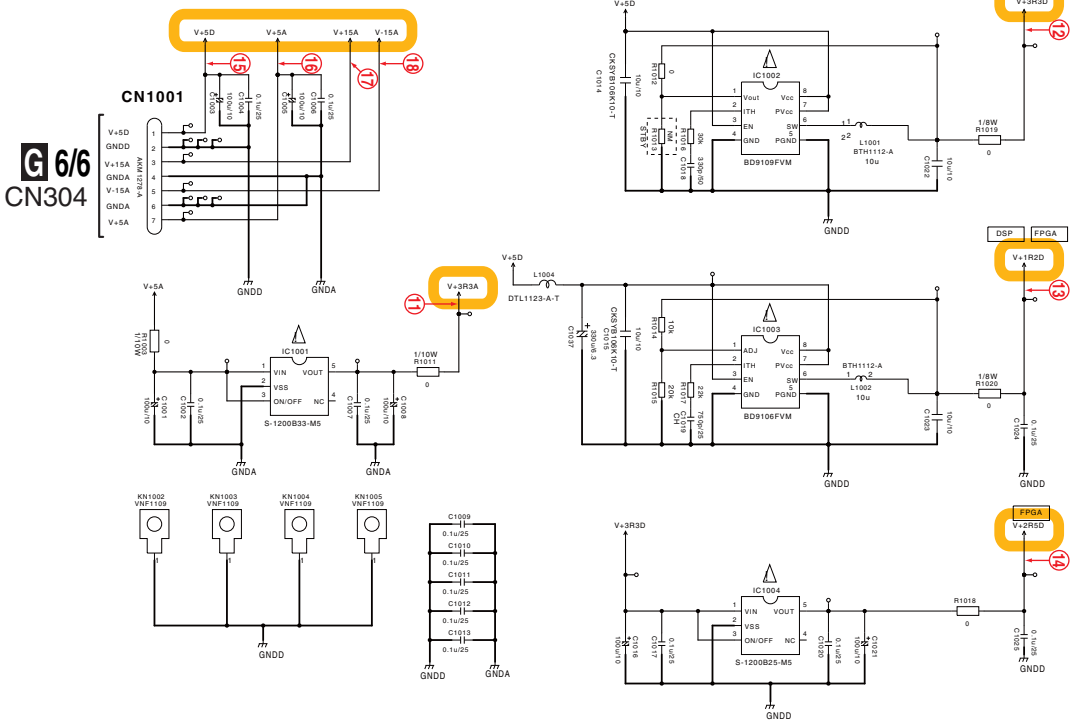


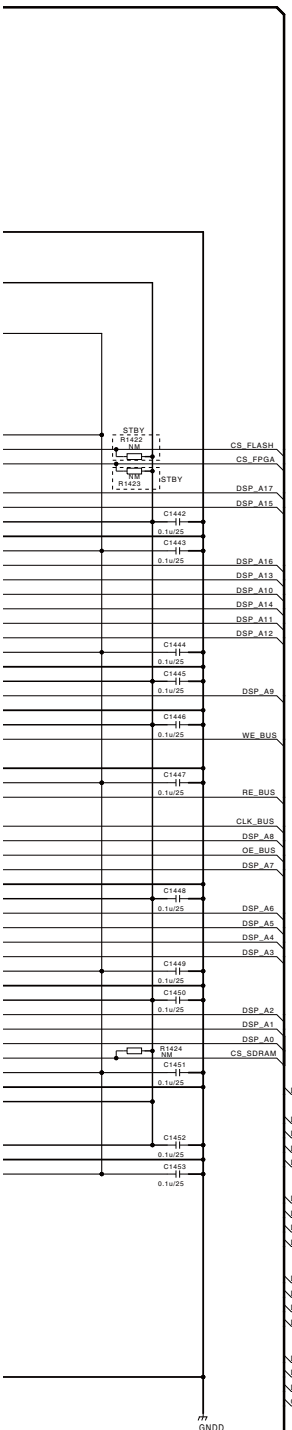
10.11 MAIN ASSY (3/4)

D 3/4 MAIN ASSY (DWX2674)



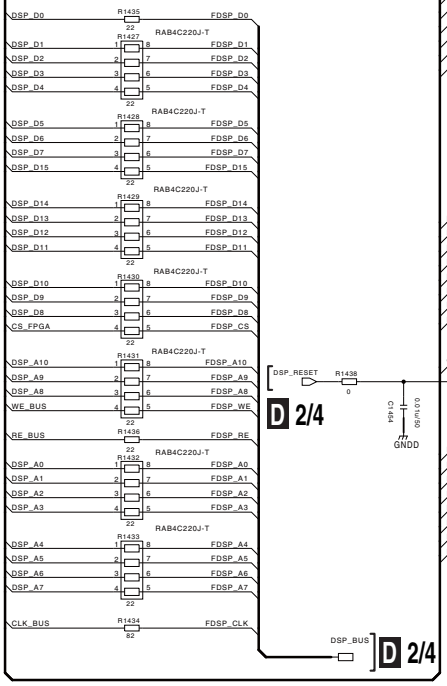
POWER

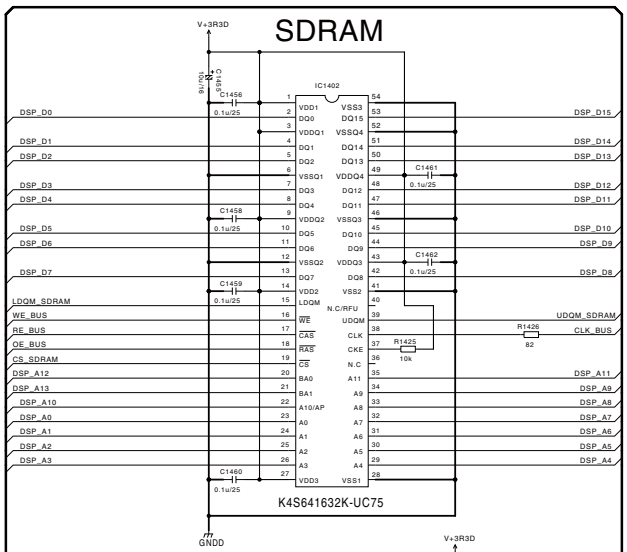


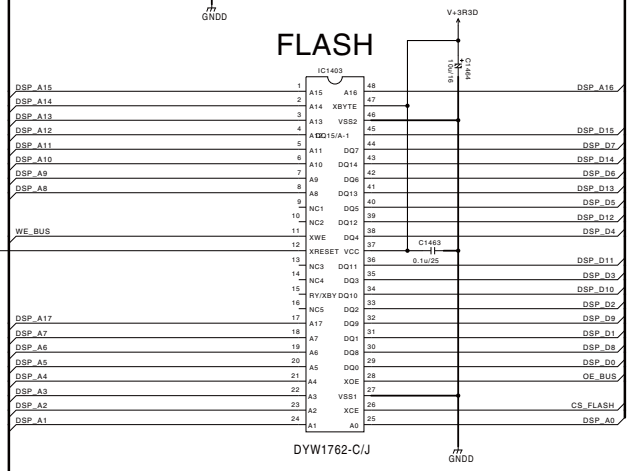


AUDIO SIGNAL ROUTE

(D1) : CH1 DIGITAL SIGNAL
(D2) : CH2 DIGITAL SIGNAL
(D3) : CH3 DIGITAL SIGNAL
(D4) : CH4 DIGITAL SIGNAL
(MICD) : MIC DIGITAL CH SIGNAL
(RND) : RETURN DIGITAL CH SIGNAL
(HPD) : HP DIGITAL CH SIGNAL
(SDD) : SEND DIGITAL CH SIGNAL
(RECD) : REC DIGITAL CH SIGNAL
(BOOTHD) : BOOTH DIGITAL CH SIGNAL
(MAD) : MASTER DIGITAL CH SIGNAL
(DI) : DIGITAL CH SIGNAL



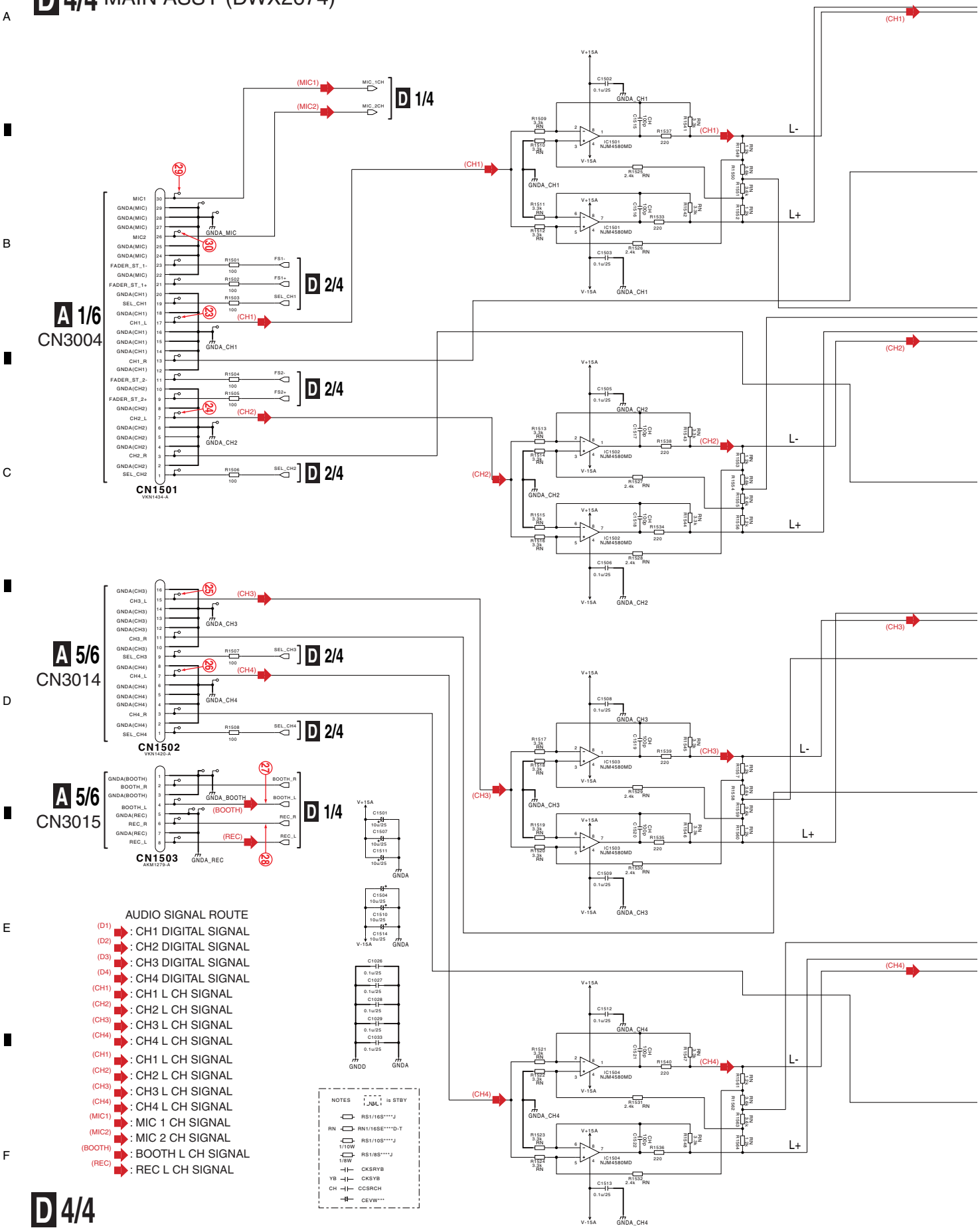




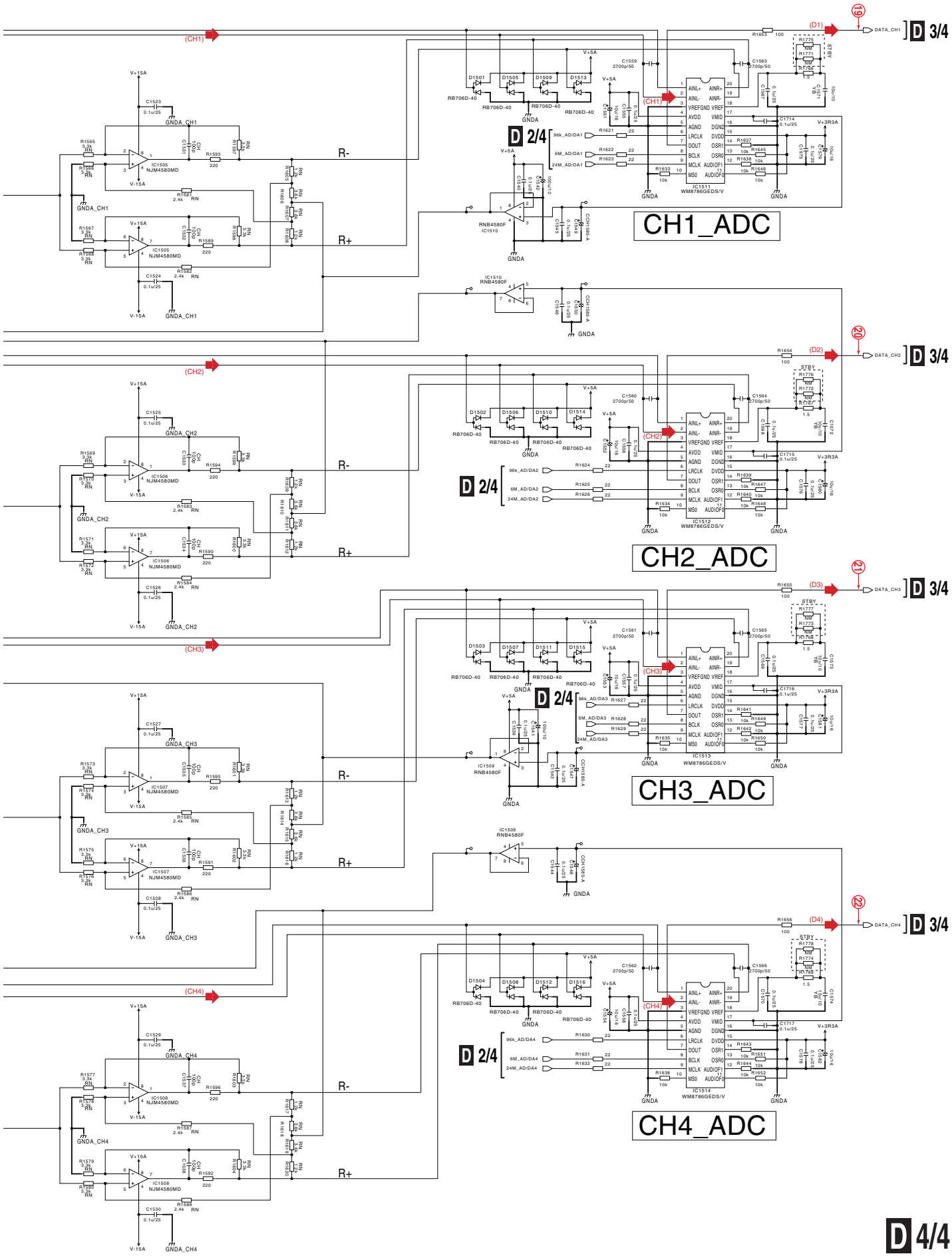
D 3/4

10.12 MAIN ASSY (4/4)

D 4/4 MAIN ASSY (DWX2674)

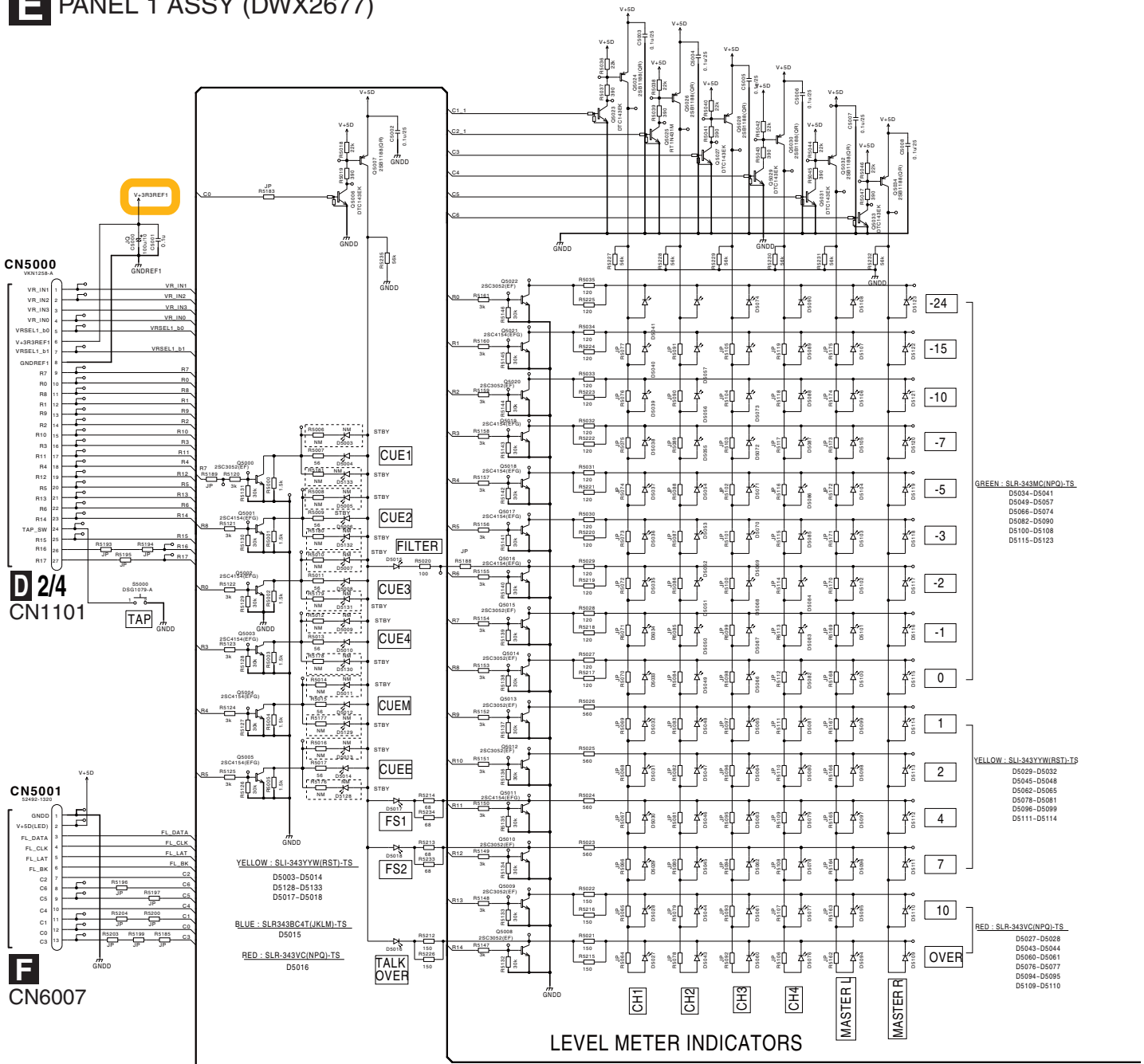


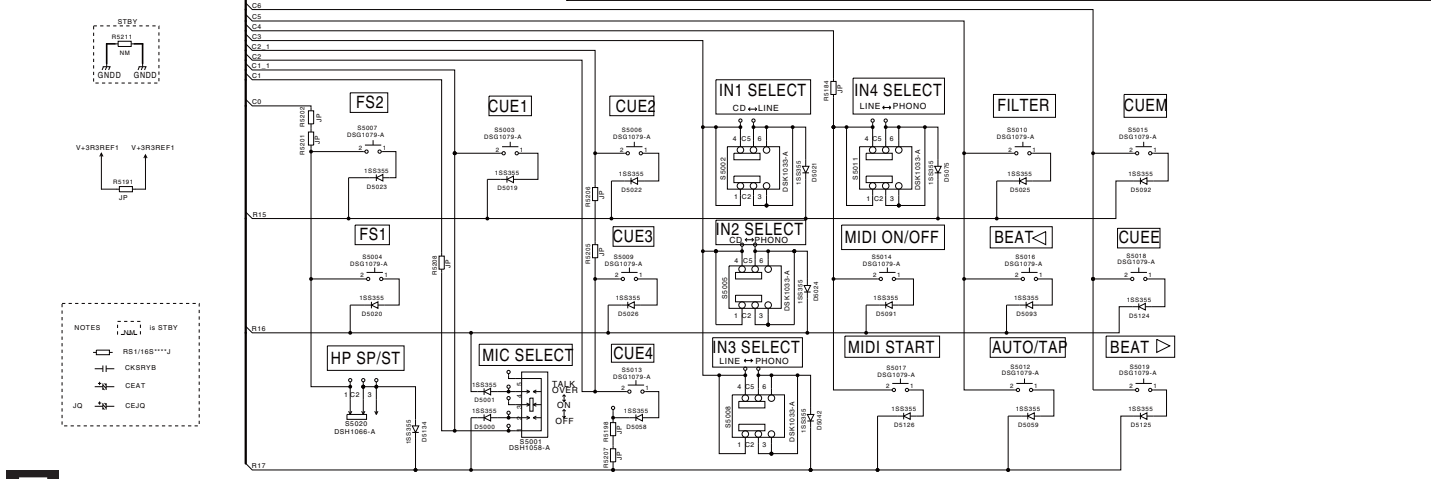
D 4/4

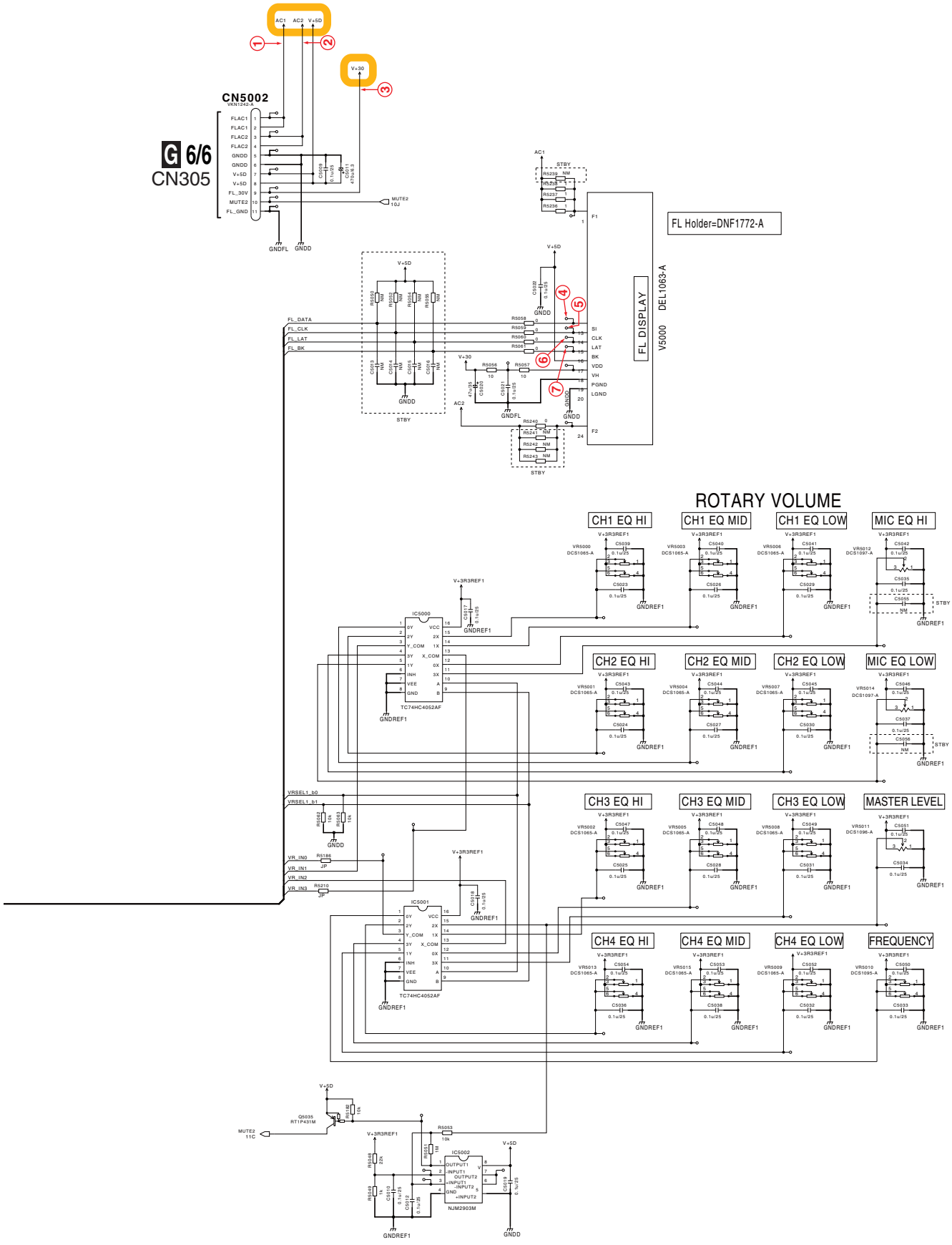

CH1_ADC
CH2_ADC
CH3_ADC
CH4_ADC
D 2/4
D 3/4
D 4/4
IC1505 NJM4580MD
IC1506 NJM4580MD
IC1507 NJM4580MD
IC1508 NJM4580MD
IC1511 WM8786GEDS/V
IC1512 WM8786GEDS/V
IC1513 WM8786GEDS/V
IC1514 WM8786GEDS/V
RNB4580F IC1510
RNB4580F IC1509
RB706D-40
R-
R+
V+15A
V-15A
V+5A
V+3R3A
GNDA
DATA_CH1
DATA_CH2
DATA_CH3
DATA_CH4

10.13 PANEL 1 ASSY

E PANEL 1 ASSY (DWX2677)

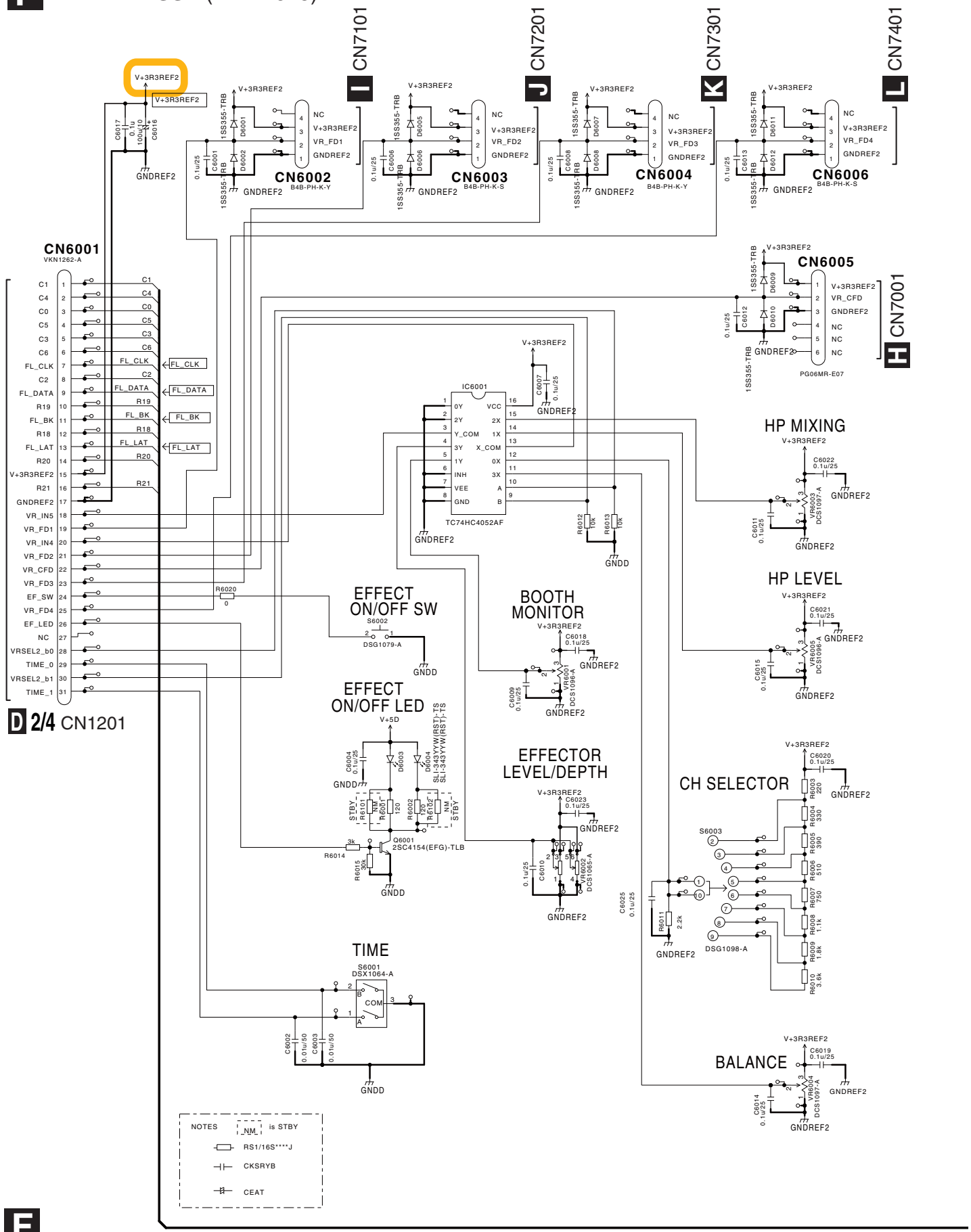


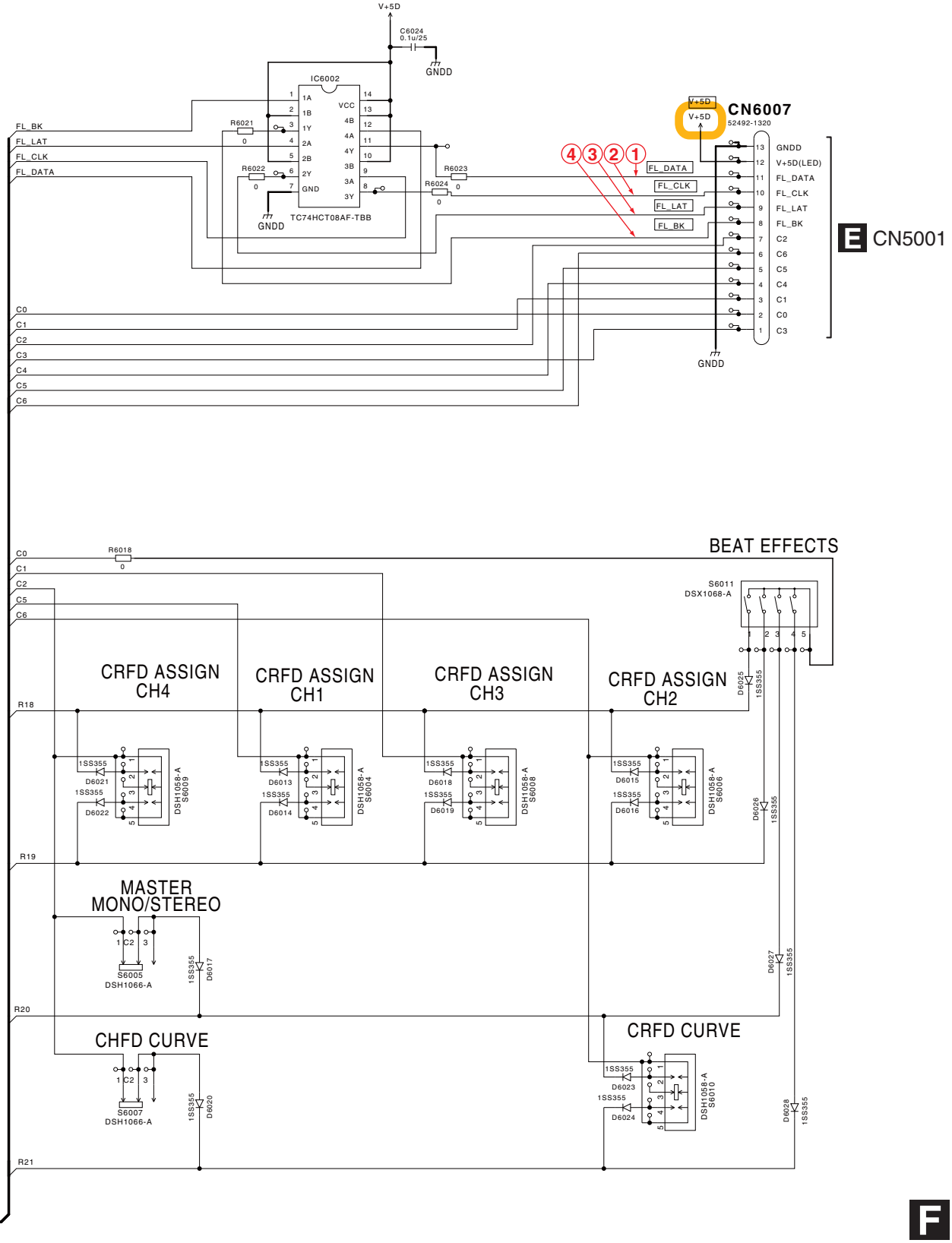



G 6/6
CN305
CN5002
FL Holder=DNF1772-A
FL DISPLAY
V5000 DEL1063-A
ROTARY VOLUME
CH1 EQ HI
CH1 EQ MID
CH1 EQ LOW
MIC EQ HI
CH2 EQ HI
CH2 EQ MID
CH2 EQ LOW
MIC EQ LOW
CH3 EQ HI
CH3 EQ MID
CH3 EQ LOW
MASTER LEVEL
CH4 EQ HI
CH4 EQ MID
CH4 EQ LOW
FREQUENCY
IC5000
IC5001
IC5002
TC74HC4052AF
NJM2903M
FL_DATA
FL_CLK
FL_LAT
FL_BK
VRSEL1_b0
VRSEL1_b1
VR_IN0
VR_IN1
VR_IN2
VR_IN3
MUTE2
GNDD
GNDFL
GNDREF1
V+5D
V+30
V+3R3REF1
STBY

10.14 PANEL 2 ASSY

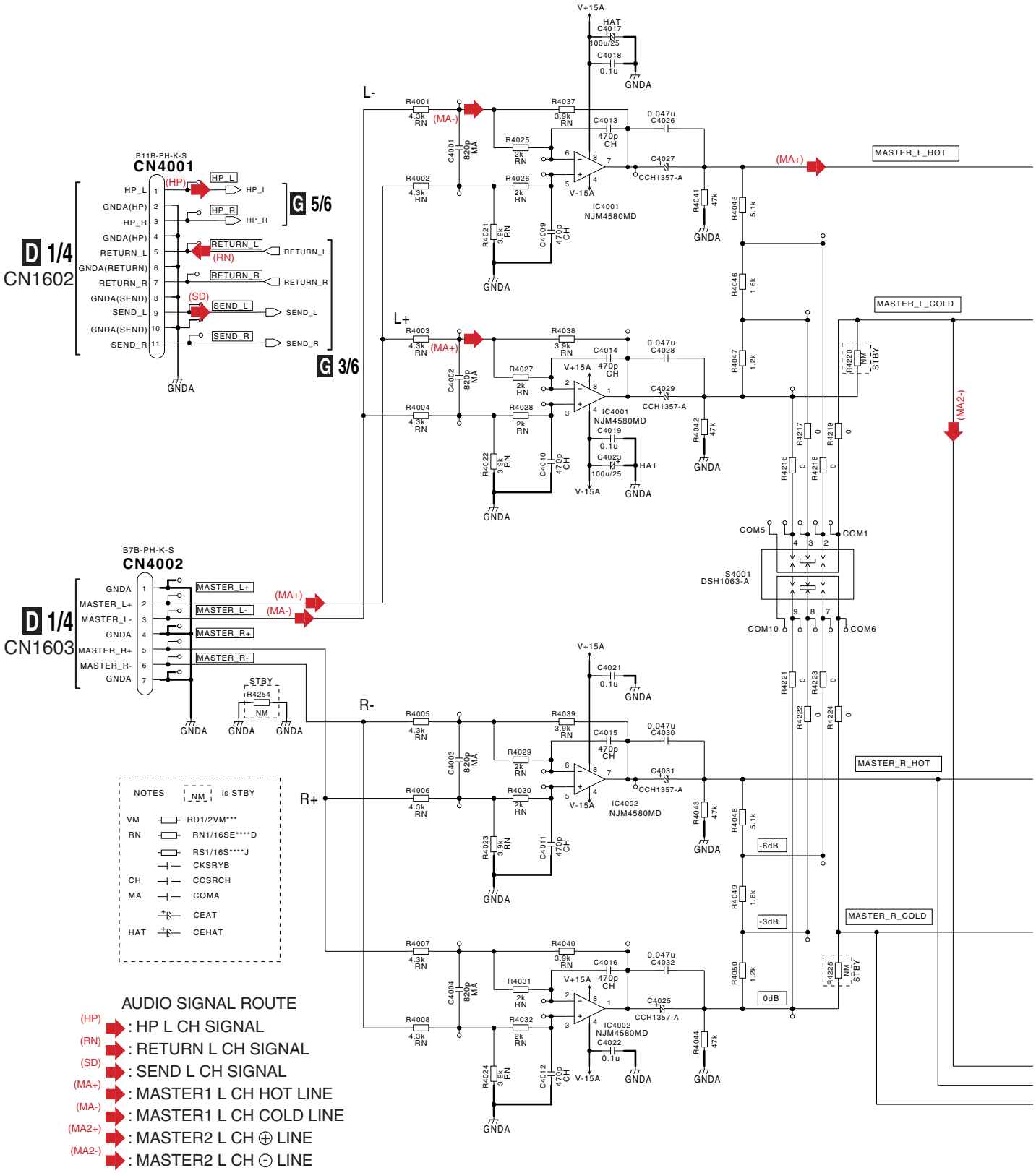
F PANEL 2 ASSY (DWX2678)

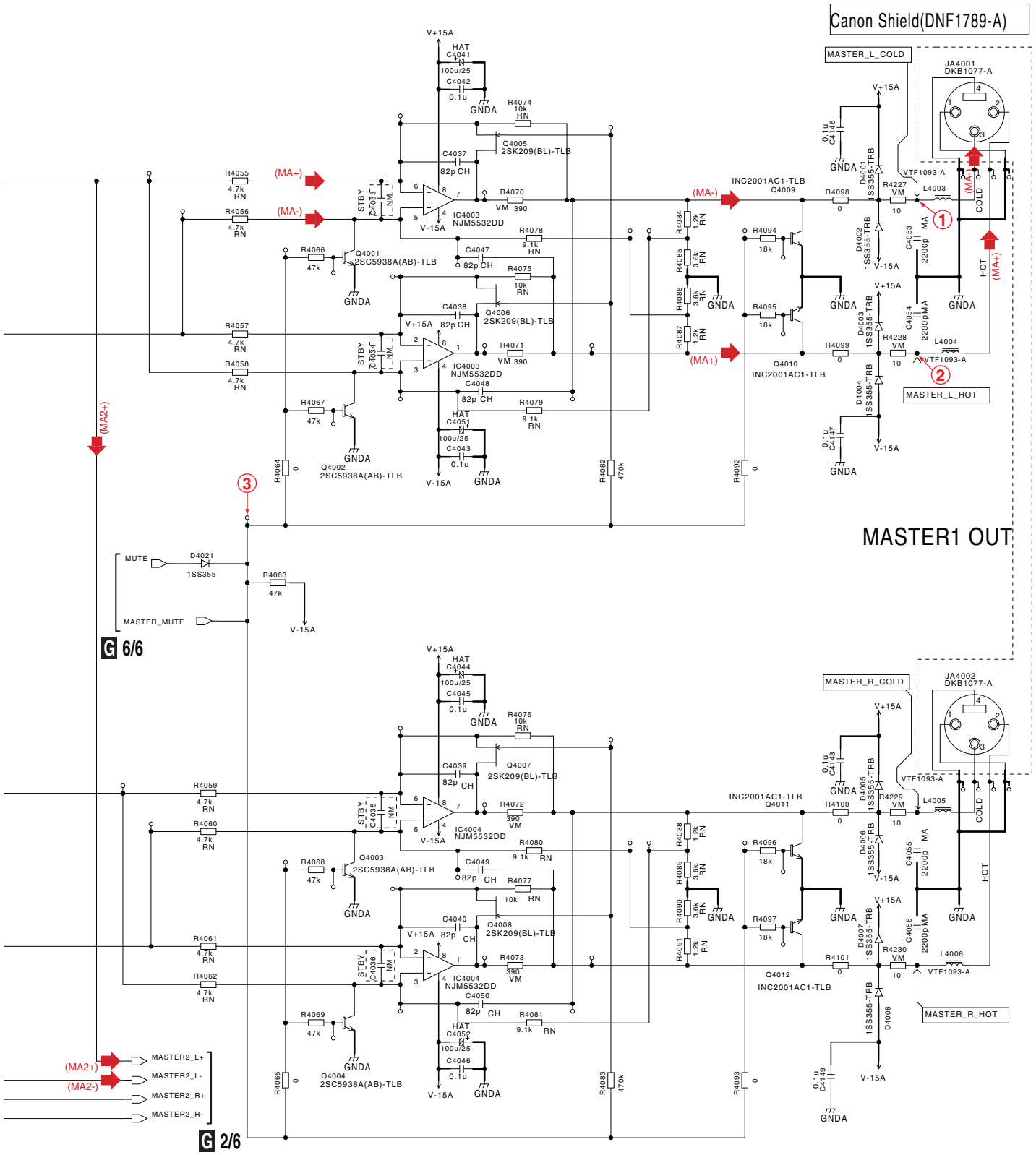



V+5D
C6024
0.1u/25
GNDD
IC6002
TC74HCT08AF-TBB
R6021
R6022
R6023
R6024
FL_BK
FL_LAT
FL_CLK
FL_DATA
CN6007
52492-1320
GNDD
V+5D(LED)
C2
C6
C5
C4
C1
C0
C3
E CN5001
BEAT EFFECTS
S6011
DSX1066-A
CRFD ASSIGN CH4
CRFD ASSIGN CH1
CRFD ASSIGN CH3
CRFD ASSIGN CH2
R18
R19
R20
R21
MASTER MONO/STEREO
S6005
DSH1066-A
CHFD CURVE
S6007
DSH1066-A
CRFD CURVE
S6010
1SS355
DSH1058-A

10.15 OUTPUT ASSY (1/6)

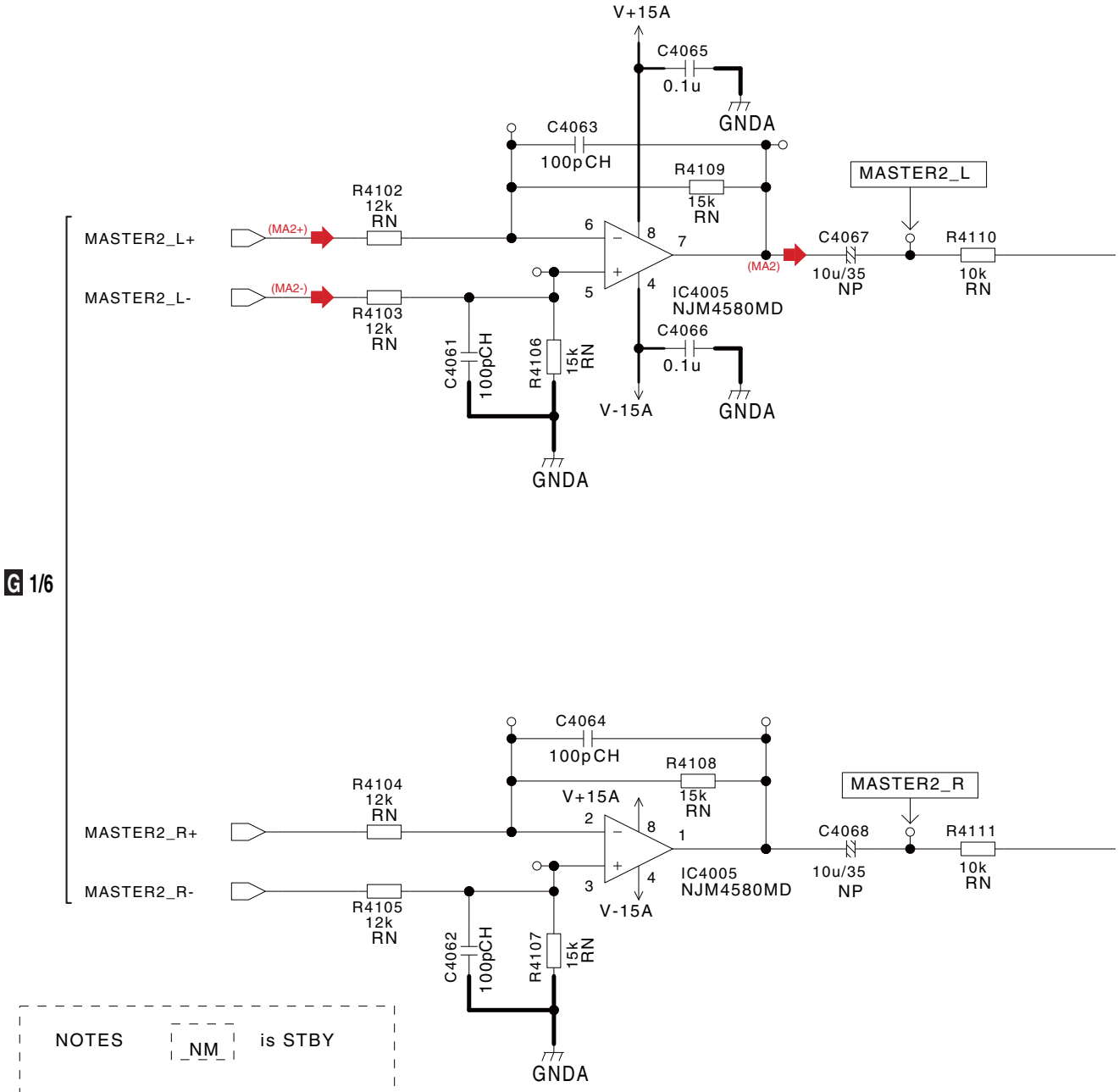
G 1/6 OUTPUT ASSY (DWX2676)




Canon Shield(DNF1789-A)
MASTER1 OUT
MASTER_L_COLD
MASTER_L_HOT
MASTER_R_COLD
MASTER_R_HOT
JA4001 DKB1077-A
JA4002 DKB1077-A
V+15A
V-15A
GNDA
(MA+)
(MA-)
(MA2+)
(MA2-)
MUTE
MASTER_MUTE
MASTER2_L+
MASTER2_L-
MASTER2_R+
MASTER2_R-
G 6/6
G 2/6
G 1/6

10.16 OUTPUT ASSY (2/6)

G 2/6 OUTPUT ASSY (DWX2676)

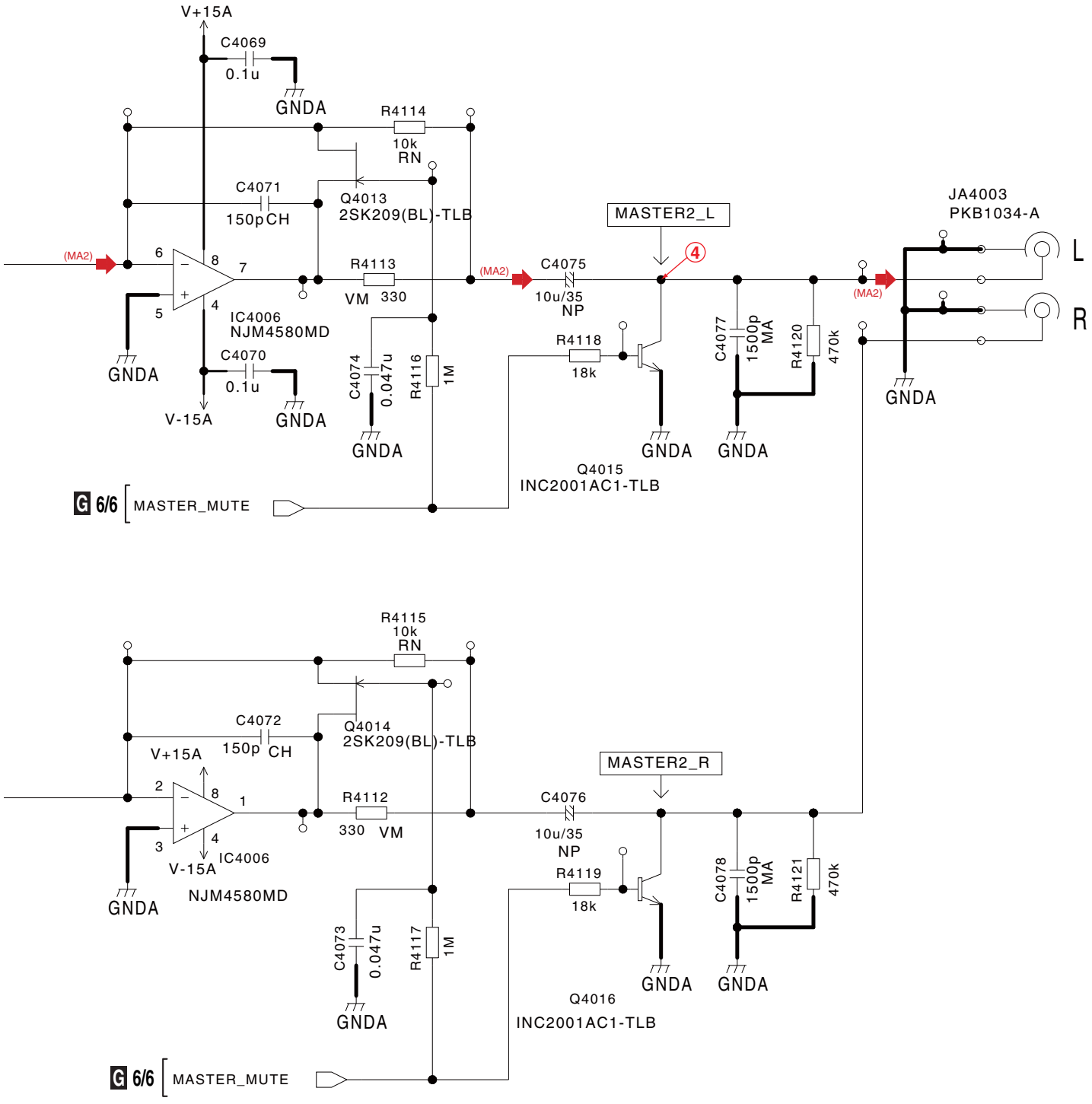


NOTES _NM_ is STBY

VM		RD1/2VM***
RN		RN1/16SE****D
		RS1/16S****J
		CKSRYB
CH		CCSRCH
MA		CQMA
NP		CEANP

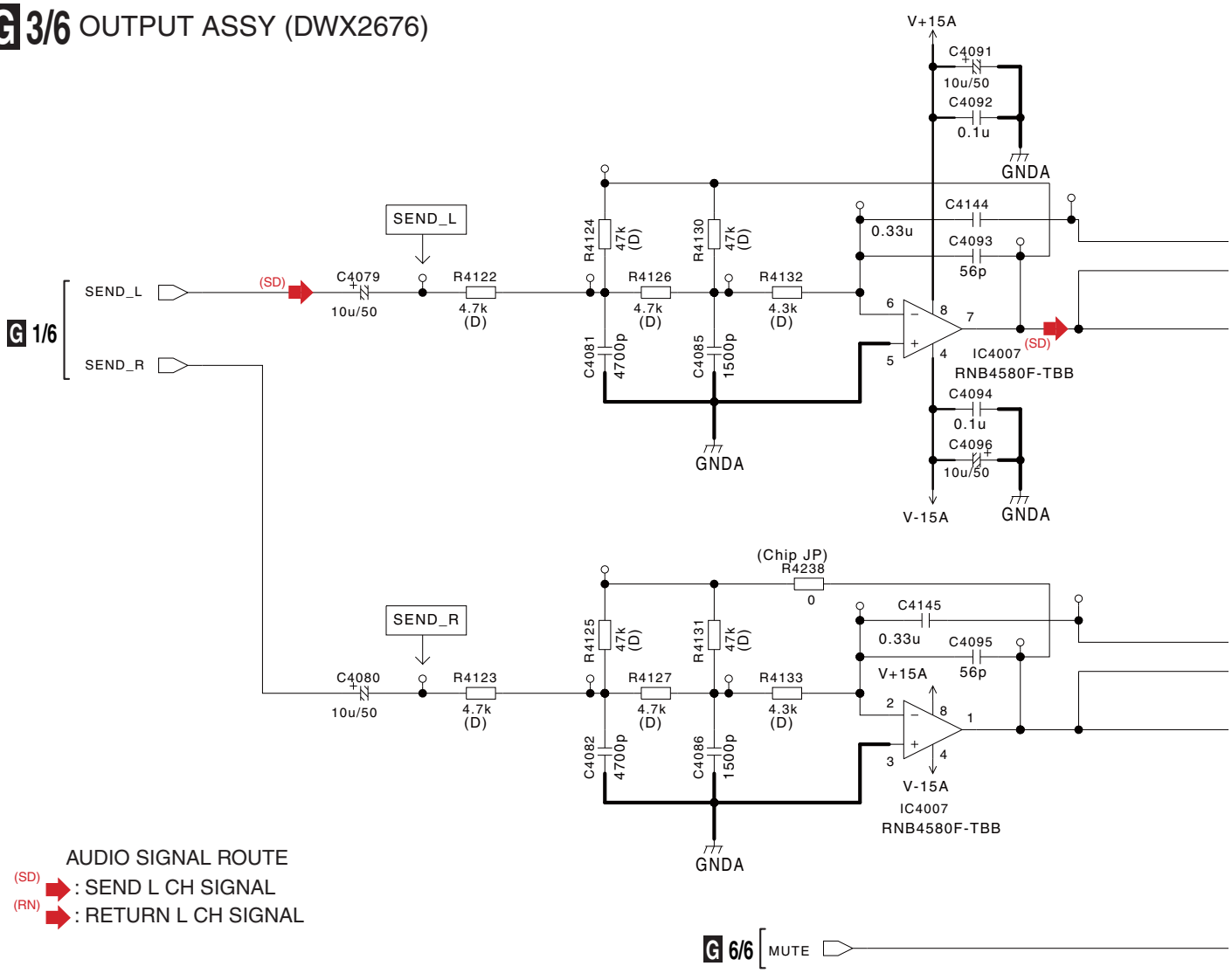
AUDIO SIGNAL ROUTE
(MA2) : MASTER2 L CH SIGNAL

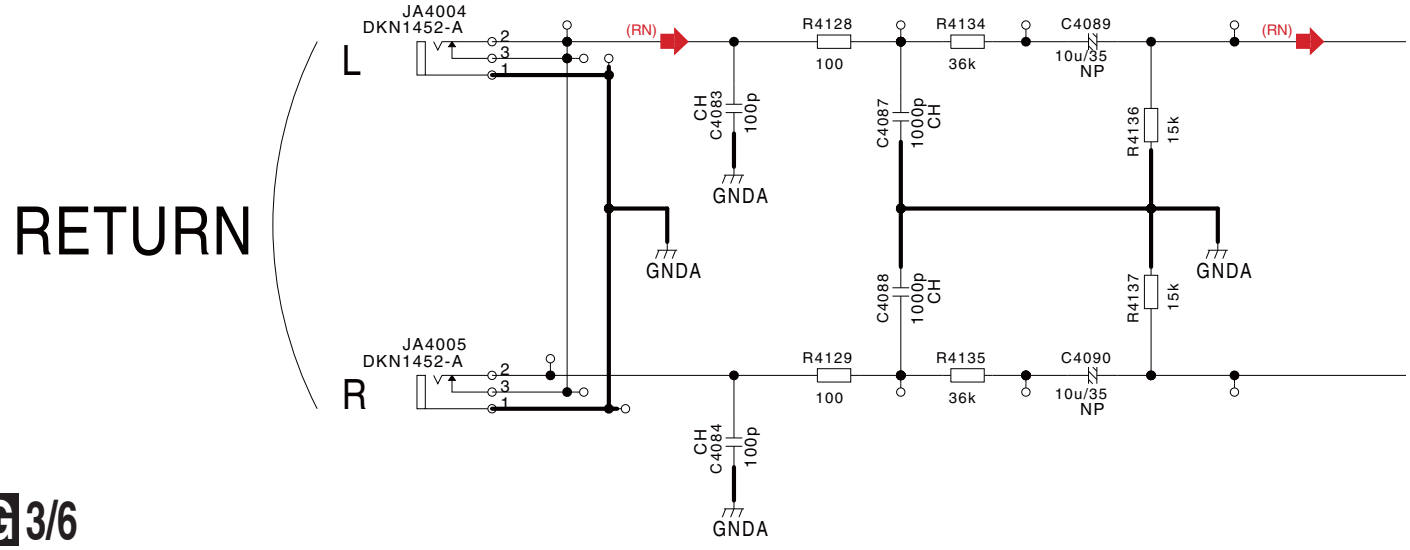
G 2/6

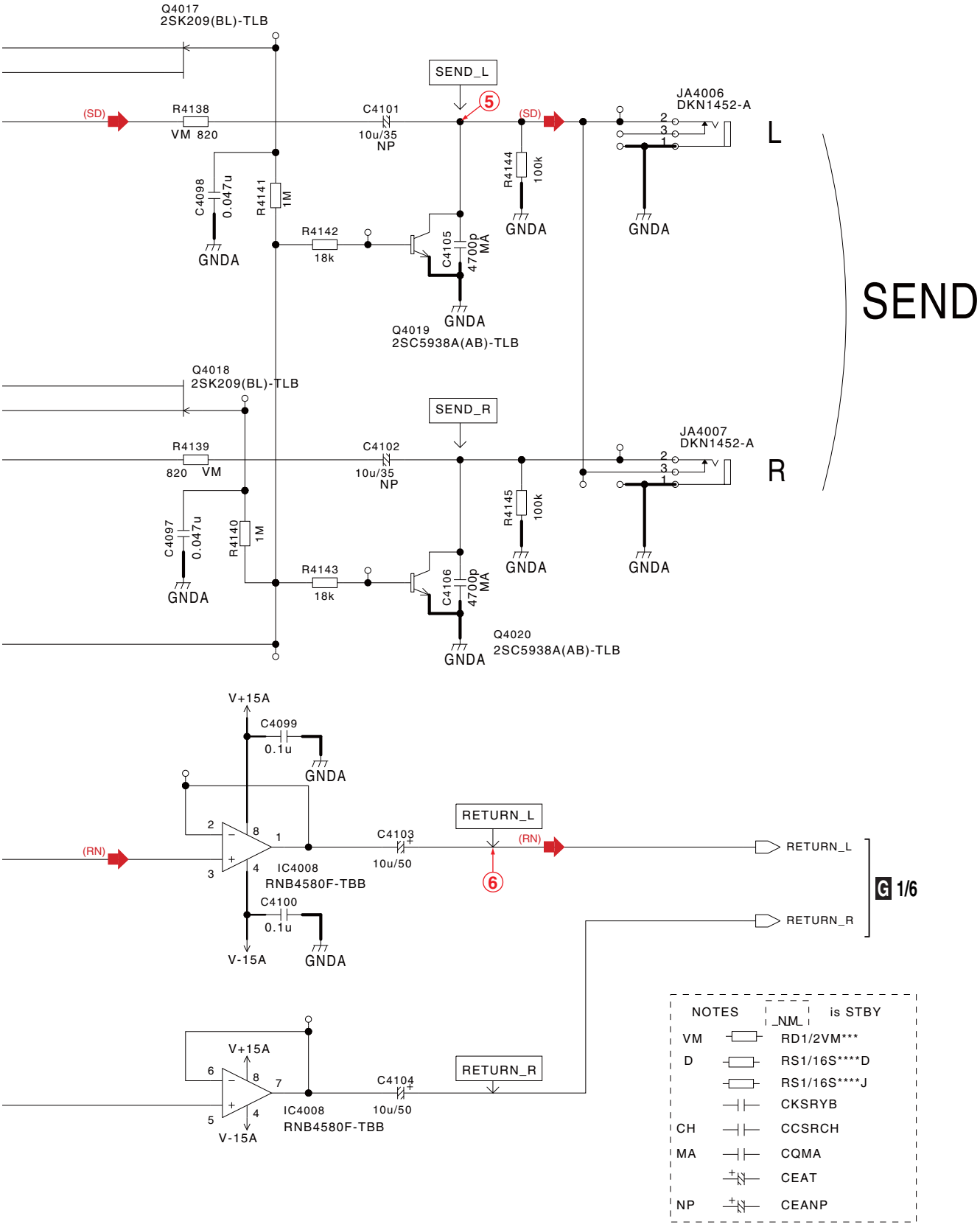

V+15A
C4069
0.1u
GNDA
R4114
10k
RN
C4071
150pCH
Q4013
2SK209(BL)-TLB
(MA2)
R4113
VM 330
IC4006
NJM4580MD
C4070
0.1u
V-15A
C4074
0.047u
R4116
1M
MASTER2_L
C4075
10u/35
NP
R4118
18k
Q4015
INC2001AC1-TLB
C4077
1500p
MA
R4120
470k
JA4003
PKB1034-A
L
R
G 6/6
MASTER_MUTE
R4115
10k
RN
C4072
150p CH
Q4014
2SK209(BL)-TLB
V+15A
R4112
330 VM
IC4006
NJM4580MD
V-15A
MASTER2_R
C4076
10u/35
NP
R4119
18k
Q4016
INC2001AC1-TLB
C4073
0.047u
R4117
1M
C4078
1500p
MA
R4121
470k
G 6/6
MASTER_MUTE

10.17 OUTPUT ASSY (3/6)

G 3/6 OUTPUT ASSY (DWX2676)



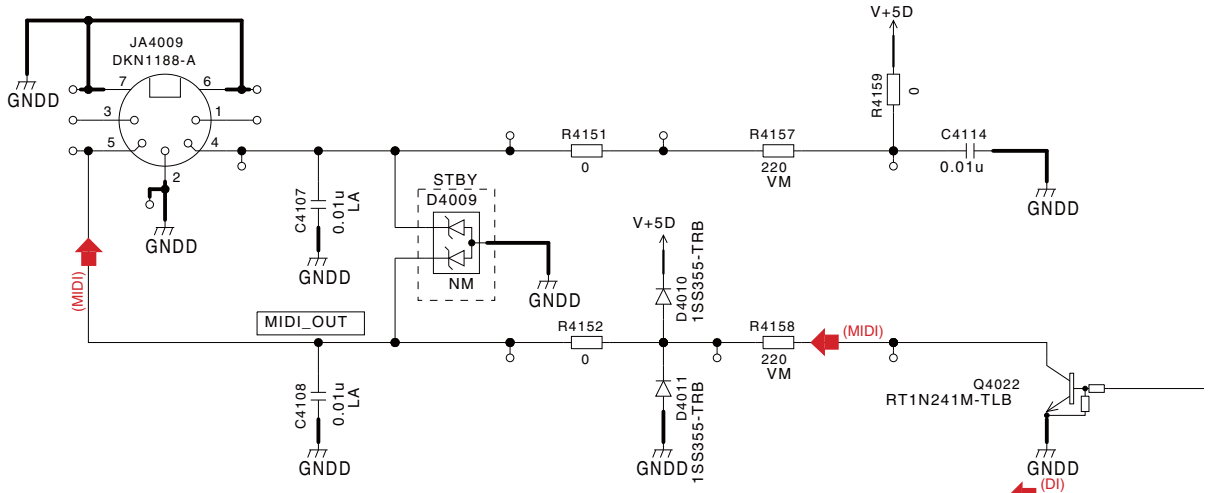


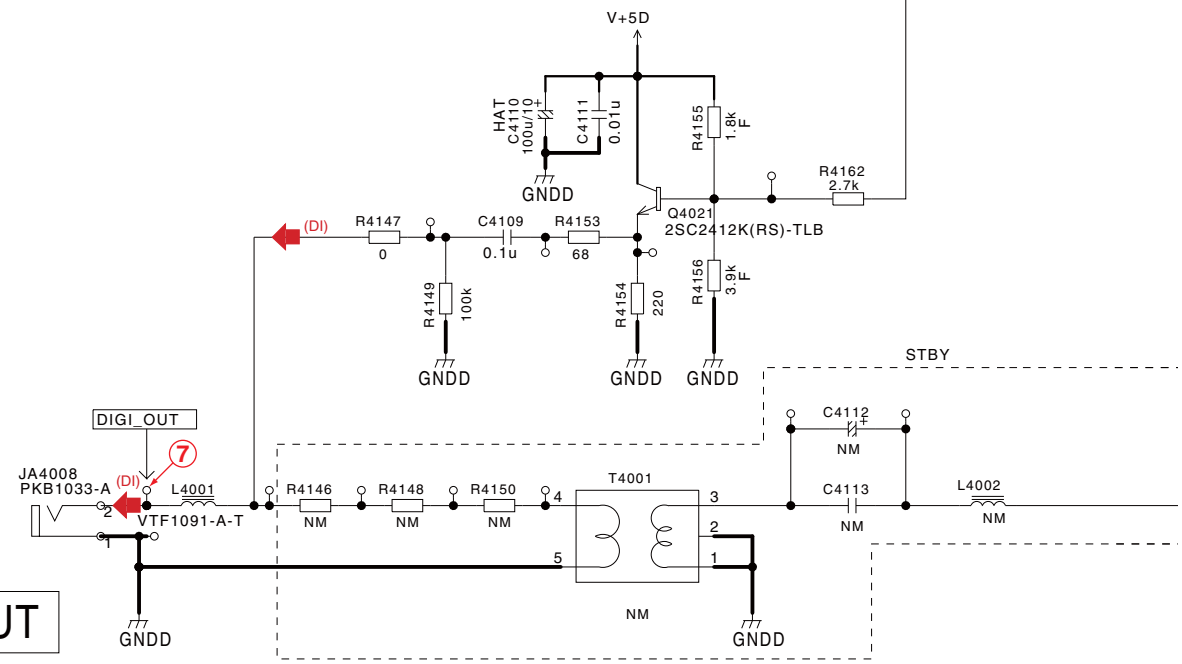

Q4017
2SK209(BL)-TLB
SEND_L
5
(SD)
R4138
VM 820
C4101
10u/35
NP
(SD)
JA4006
DKN1452-A
L
C4098
0.047u
R4141
1M
R4142
18k
C4105
4700p
MA
R4144
100k
GNDA
GNDA
GNDA
GNDA
Q4019
2SC5938A(AB)-TLB
SEND
Q4018
2SK209(BL)-TLB
SEND_R
R4139
820 VM
C4102
10u/35
NP
JA4007
DKN1452-A
R
C4097
0.047u
R4140
1M
R4143
18k
C4106
4700p
MA
R4145
100k
GNDA
GNDA
GNDA
GNDA
Q4020
2SC5938A(AB)-TLB
V+15A
C4099
0.1u
GNDA
RETURN_L
(RN)
C4103
10u/50
RETURN_L
G 1/6
6
IC4008
RNB4580F-TBB
C4100
0.1u
V-15A
GNDA
RETURN_R
V+15A
C4104
10u/50
IC4008
RNB4580F-TBB
V-15A
NOTES
NM
is STBY
VM
RD1/2VM***
D
RS1/16S****D
RS1/16S****J
CKSRYB
CH
CCSRCH
MA
CQMA
CEAT
NP
CEANP

10.18 OUTPUT ASSY (4/6)

G 4/6 OUTPUT ASSY (DWX2676)

MIDI OUT





DIGITAL OUT

NOTES NM is STBY

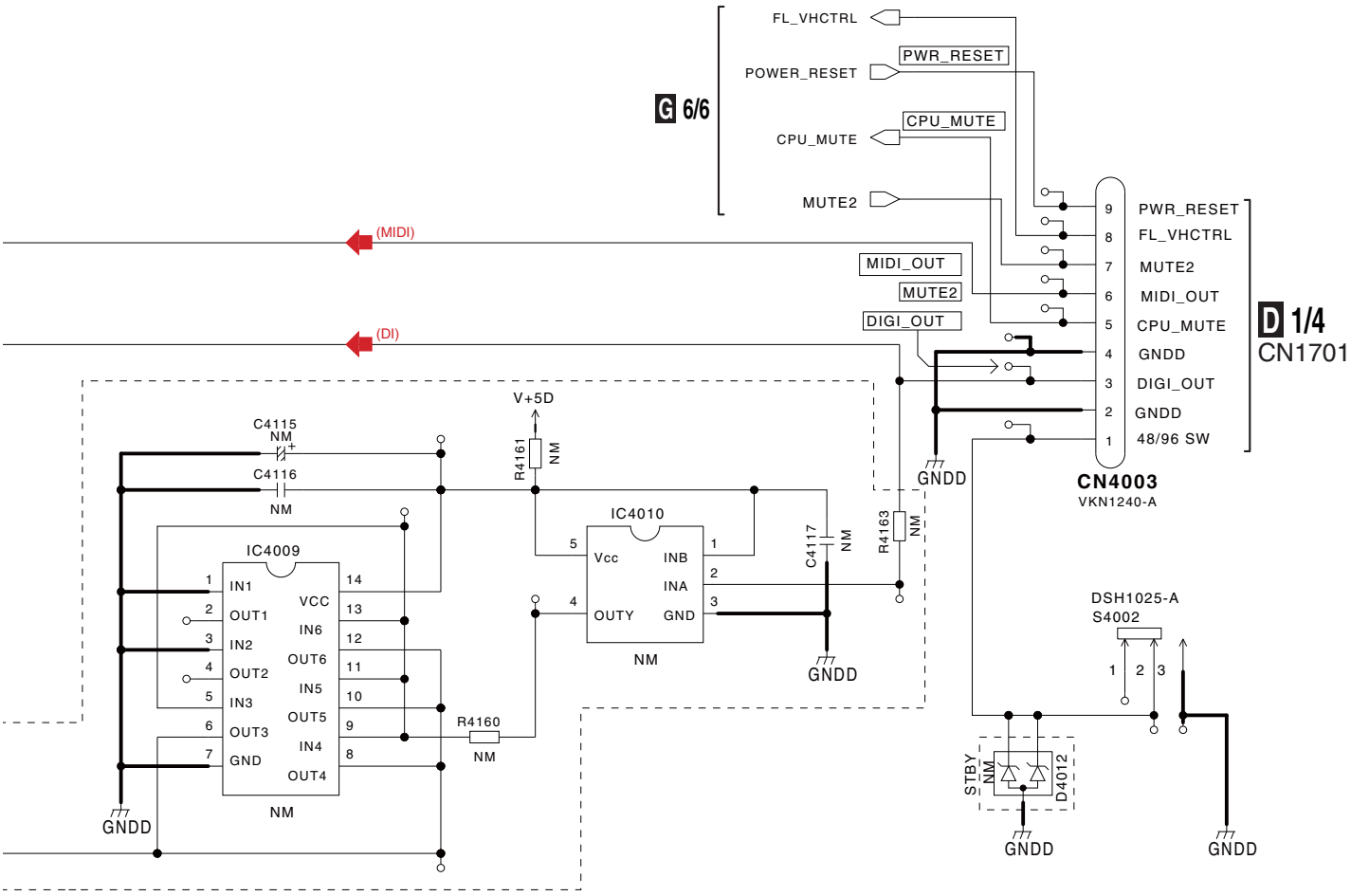
VM		RD1/2VM***
F		RS1/16S****F
		RS1/16S****J
		CKSRYB
CH		CCSRCH
HAT		CEHAT

AUDIO SIGNAL ROUTE

(MIDI) : MIDI CH SIGNAL

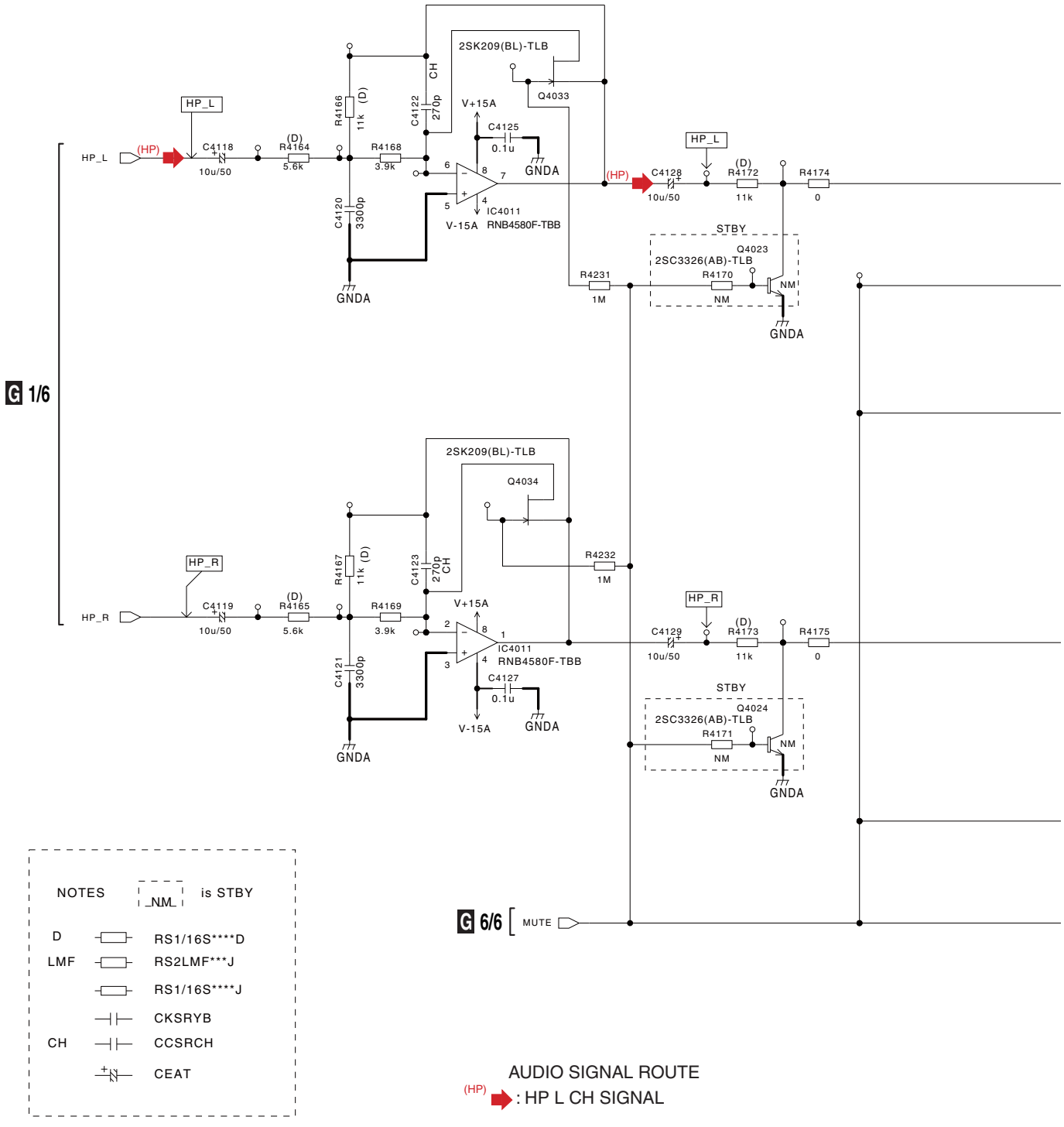
(DI) : DIGITAL CH SIGNAL

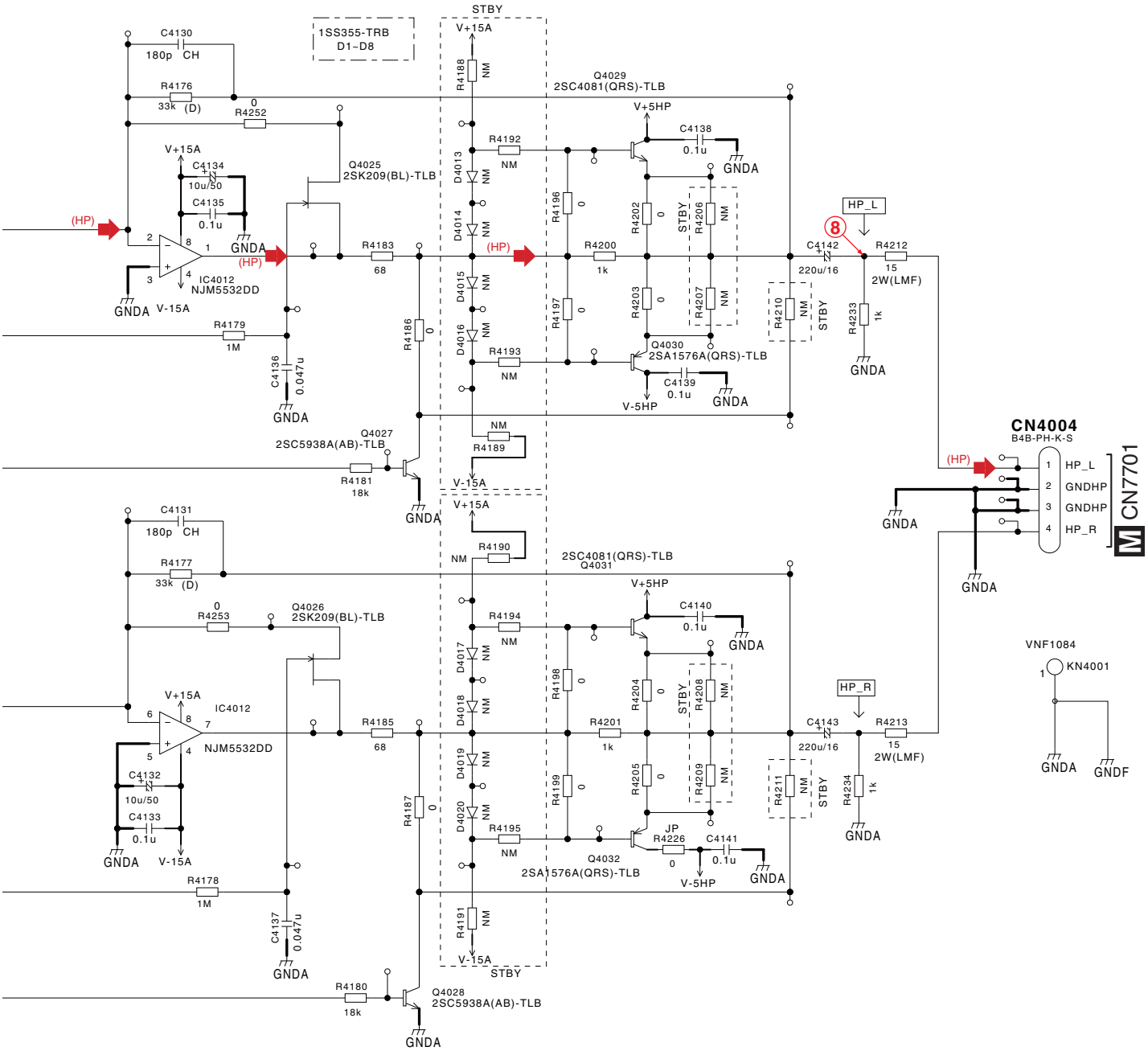
G 4/6


FL_VHCTRL
PWR_RESET
POWER_RESET
CPU_MUTE
CPU_MUTE
MUTE2
G 6/6
(MIDI)
(DI)
MIDI_OUT
MUTE2
DIGI_OUT
9 PWR_RESET
8 FL_VHCTRL
7 MUTE2
6 MIDI_OUT
5 CPU_MUTE
4 GNDD
3 DIGI_OUT
2 GNDD
1 48/96 SW
D 1/4
CN1701
CN4003
VKN1240-A
GNDD
V+5D
C4115
NM
C4116
NM
R4161
NM
IC4009
IC4010
C4117
NM
R4163
NM
R4160
NM
DSH1025-A
S4002
STBY
NM
D4012
GNDD
GNDD
GNDD
GNDD

10.19 OUTPUT ASSY (5/6)

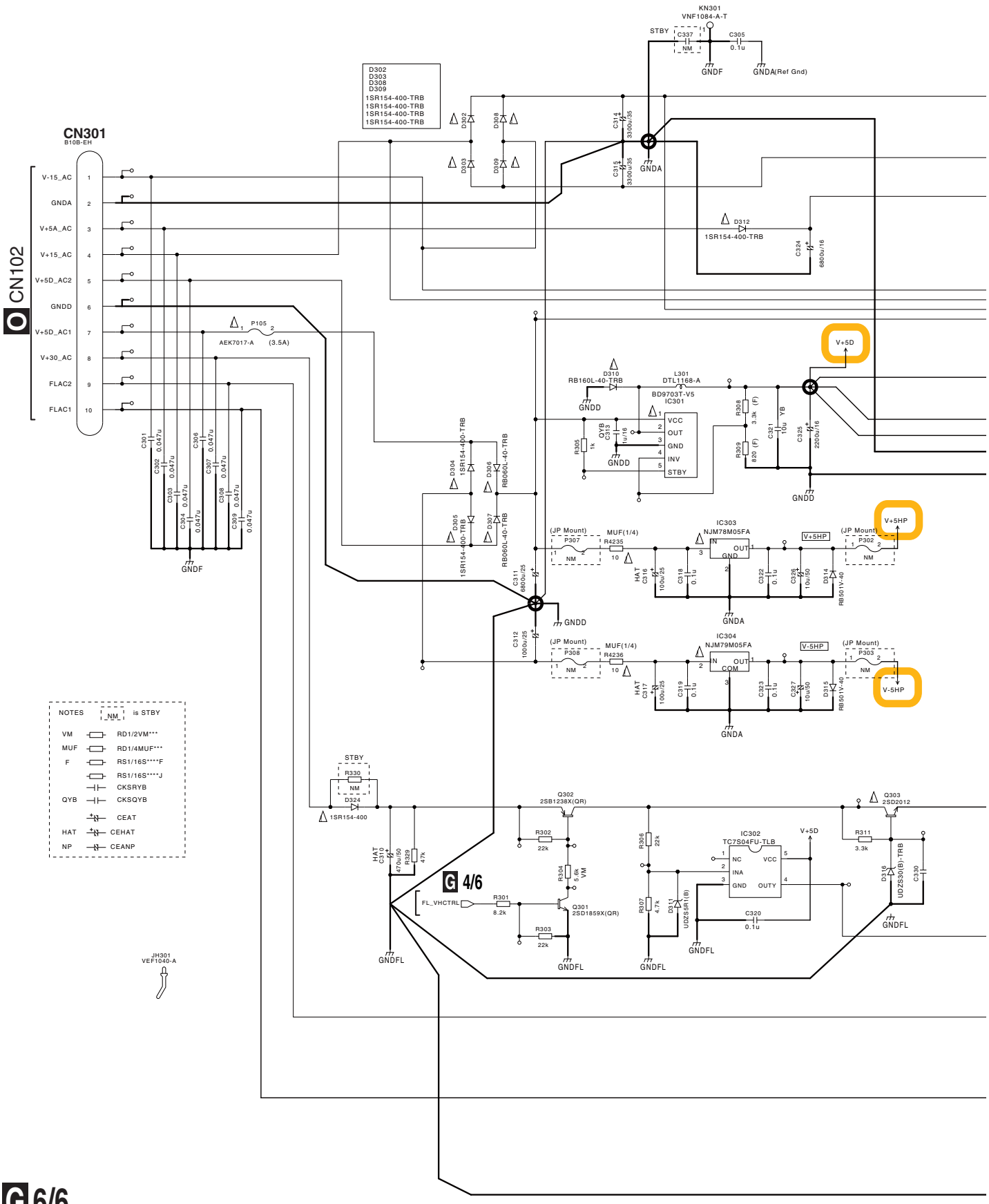
G 5/6 OUTPUT ASSY (DWX2676)

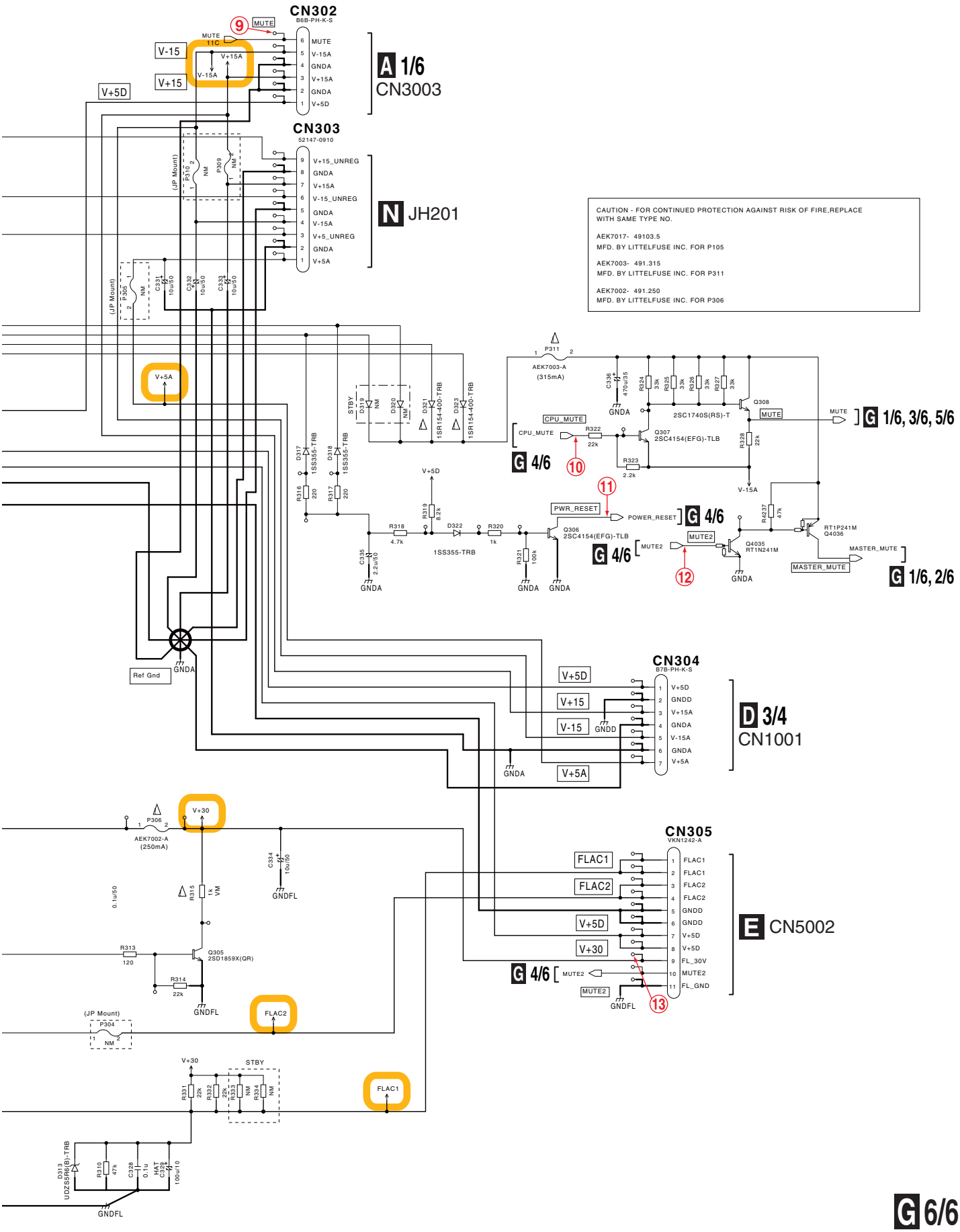



STBY
1SS355-TRB
D1~D8
C4130
180p CH
R4176
33k (D)
0
R4252
V+15A
C4134
10u/50
C4135
0.1u
(HP)
GNDA
IC4012
NJM5532DD
V-15A
R4179
1M
C4136
0.047u
R4183
68
R4186
0
Q4025
2SK209(BL)-TLB
D4013
D4014
D4015
D4016
NM
R4188
R4192
R4193
R4196
R4197
R4200
1k
R4202
R4203
R4206
R4207
R4210
R4233
1k
V+5HP
C4138
0.1u
Q4029
2SC4081(QRS)-TLB
Q4030
2SA1576A(QRS)-TLB
C4139
0.1u
V-5HP
HP_L
C4142
220u/16
R4212
15
2W(LMF)
R4189
Q4027
2SC5938A(AB)-TLB
R4181
18k
C4131
180p CH
R4177
33k (D)
R4253
Q4026
2SK209(BL)-TLB
R4185
68
R4187
R4190
R4194
R4195
R4198
R4199
R4201
1k
R4204
R4205
R4208
R4209
R4211
R4234
1k
2SC4081(QRS)-TLB
Q4031
C4140
0.1u
HP_R
C4143
220u/16
R4213
15
2W(LMF)
C4132
10u/50
C4133
0.1u
R4178
1M
C4137
0.047u
R4191
R4180
18k
Q4028
2SC5938A(AB)-TLB
JP
R4226
0
C4141
0.1u
Q4032
2SA1576A(QRS)-TLB
CN4004
B4B-PH-K-S
HP_L
GNDHP
GNDHP
HP_R
CN7701
VNF1084
KN4001
GNDF

10.20 OUTPUT ASSY (6/6)

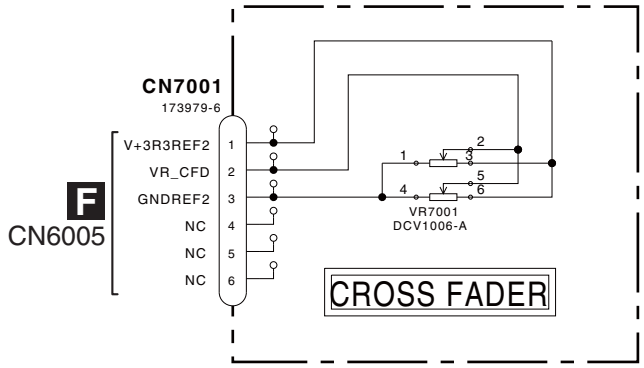
G 6/6 OUTPUT ASSY (DWX2676)



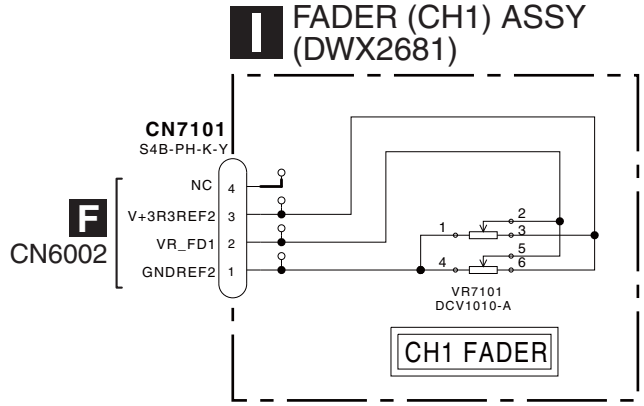

CN302
B6B-PH-K-S
MUTE
V-15
V+15
V+5D
V+15A
V-15A
GNDA
V+5A
A 1/6
CN3003
CN303
52147-0910
(JP Mount)
P310
P309
P305
NM
C331
C332
C333
10u/50
V+15_UNREG
V-15_UNREG
V+5_UNREG
N JH201
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,REPLACE WITH SAME TYPE NO.
AEK7017- 49103.5
MFD. BY LITTELFUSE INC. FOR P105
AEK7003- 491.315
MFD. BY LITTELFUSE INC. FOR P311
AEK7002- 491.250
MFD. BY LITTELFUSE INC. FOR P306
P311
AEK7003-A
(315mA)
STBY
D316
D320
D321
D323
1SR154-400-TRB
D317
D318
1SS355-TRB
R316
R317
220
CPU_MUTE
R322
22k
R323
2.2k
Q307
2SC4154(EFG)-TLB
Q308
2SC1740S(RS)-T
R324
R325
R326
R327
33k
R328
22k
C336
470u/35
G 4/6
10
11
PWR_RESET
POWER_RESET
G 4/6
MUTE2
12
Q4035
RT1N241M
R4237
47k
RT1P241M
Q4036
MASTER_MUTE
G 1/6, 2/6
G 1/6, 3/6, 5/6
R318
4.7k
R319
8.2k
D322
1SS355-TRB
R320
1k
Q306
2SC4154(EFG)-TLB
C335
2.2u/50
R321
100k
Ref Gnd
CN304
B7B-PH-K-S
GNDD
D 3/4
CN1001
CN305
VKN1242-A
FLAC1
FLAC2
E CN5002
P306
AEK7002-A
(250mA)
V+30
C334
10u/50
0.1u/50
R315
1k
VM
GNDFL
R313
120
Q305
2SD1859X(QR)
R314
22k
(JP Mount)
P304
NM
STBY
R331
R332
R333
R334
22k
D313
UDZS5R6(B)-TRB
R310
47k
C328
0.1u
C329
100u/10
G 6/6
93
DJM-700-S

10.21 FADER (CROSS), (CH1), (CH2), (CH3) and (CH4) ASSYS

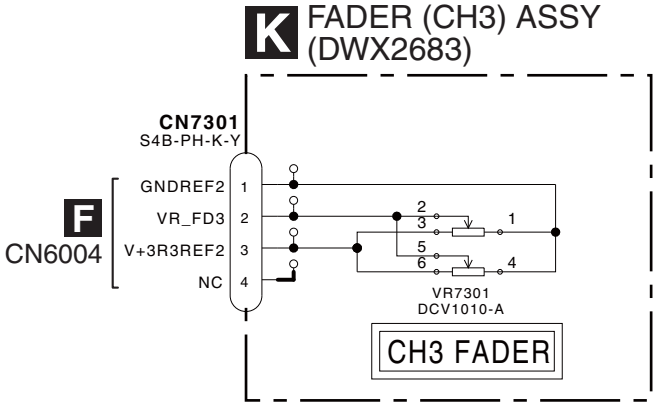
H FADER (CROSS) ASSY (DWX2680)



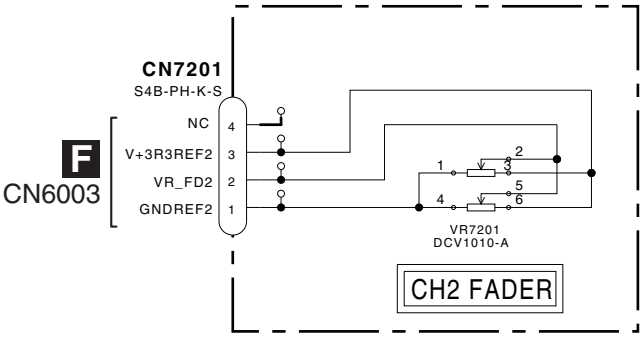
I FADER (CH1) ASSY (DWX2681)



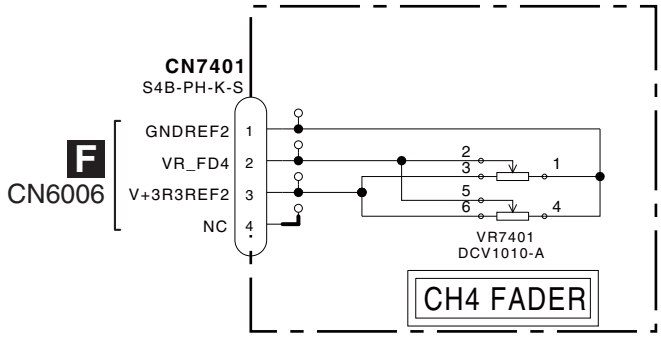
K FADER (CH3) ASSY (DWX2683)



J FADER (CH2) ASSY (DWX2682)



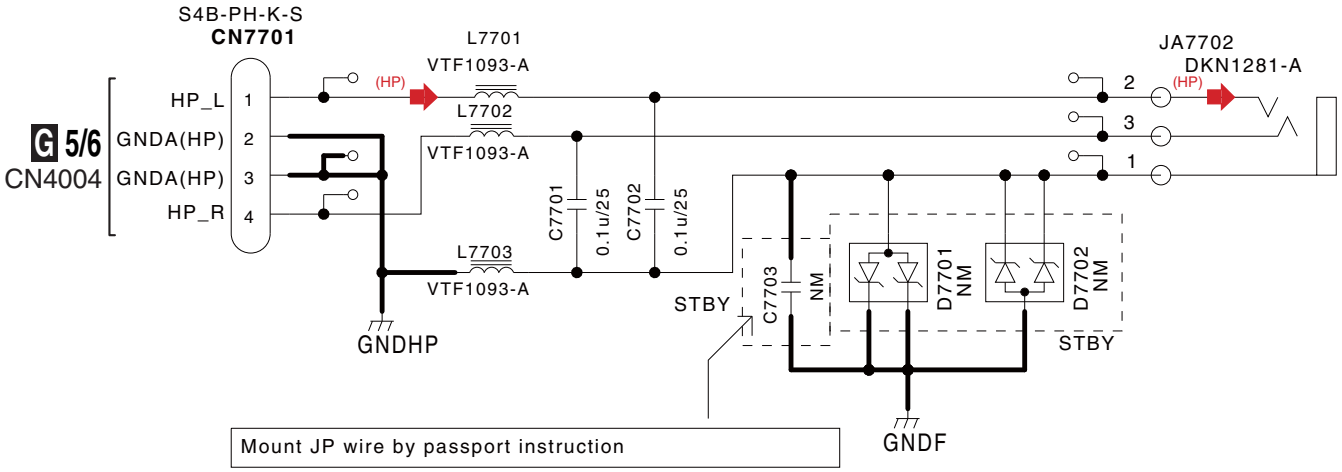
L FADER (CH4) ASSY (DWX2684)

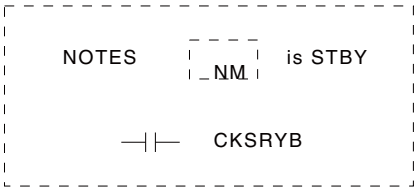


H I J K L

10.22 HP JACK ASSY

M HP JACK ASSY (DWX2690)



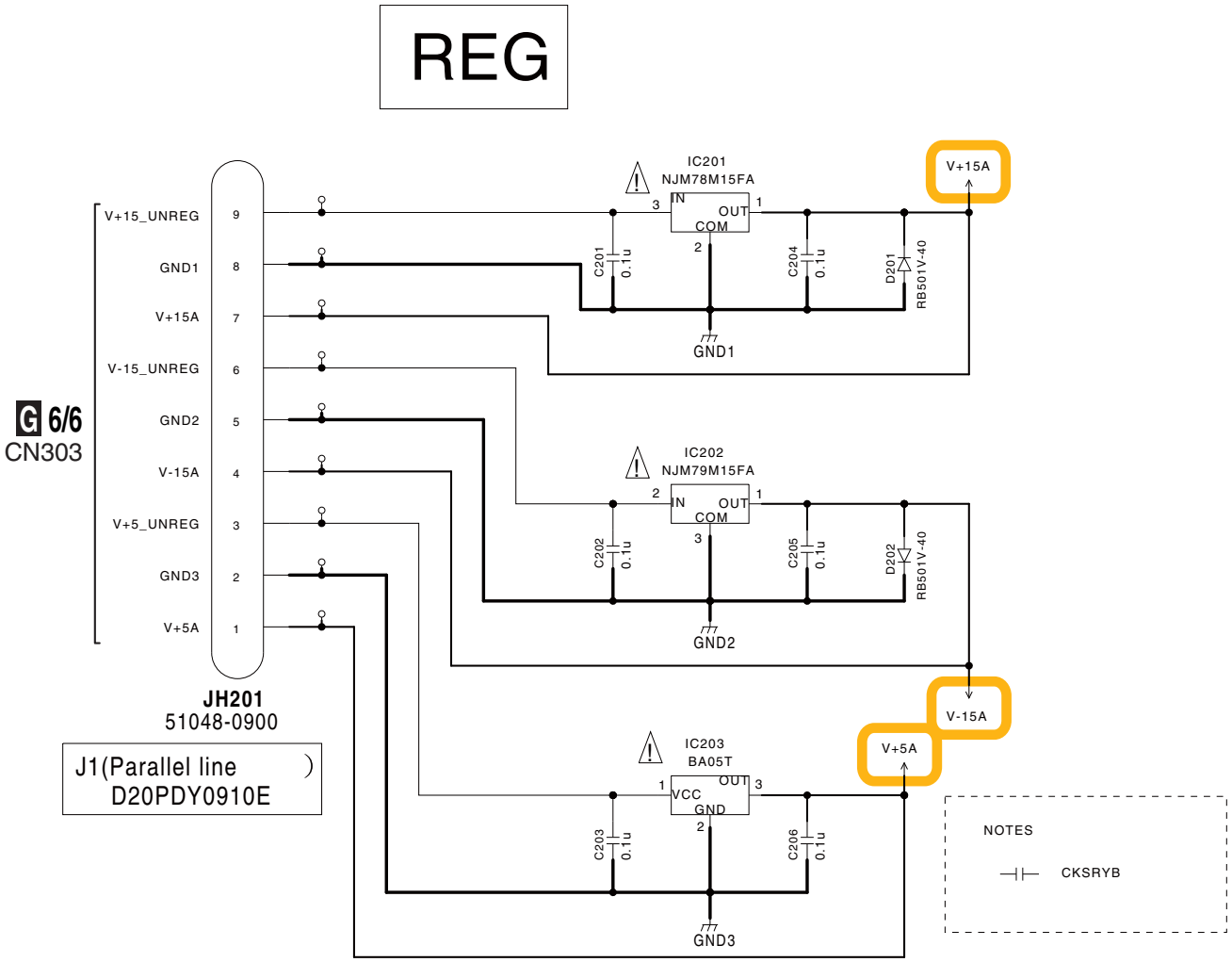


AUDIO SIGNAL ROUTE

(HP) : HP L CH SIGNAL

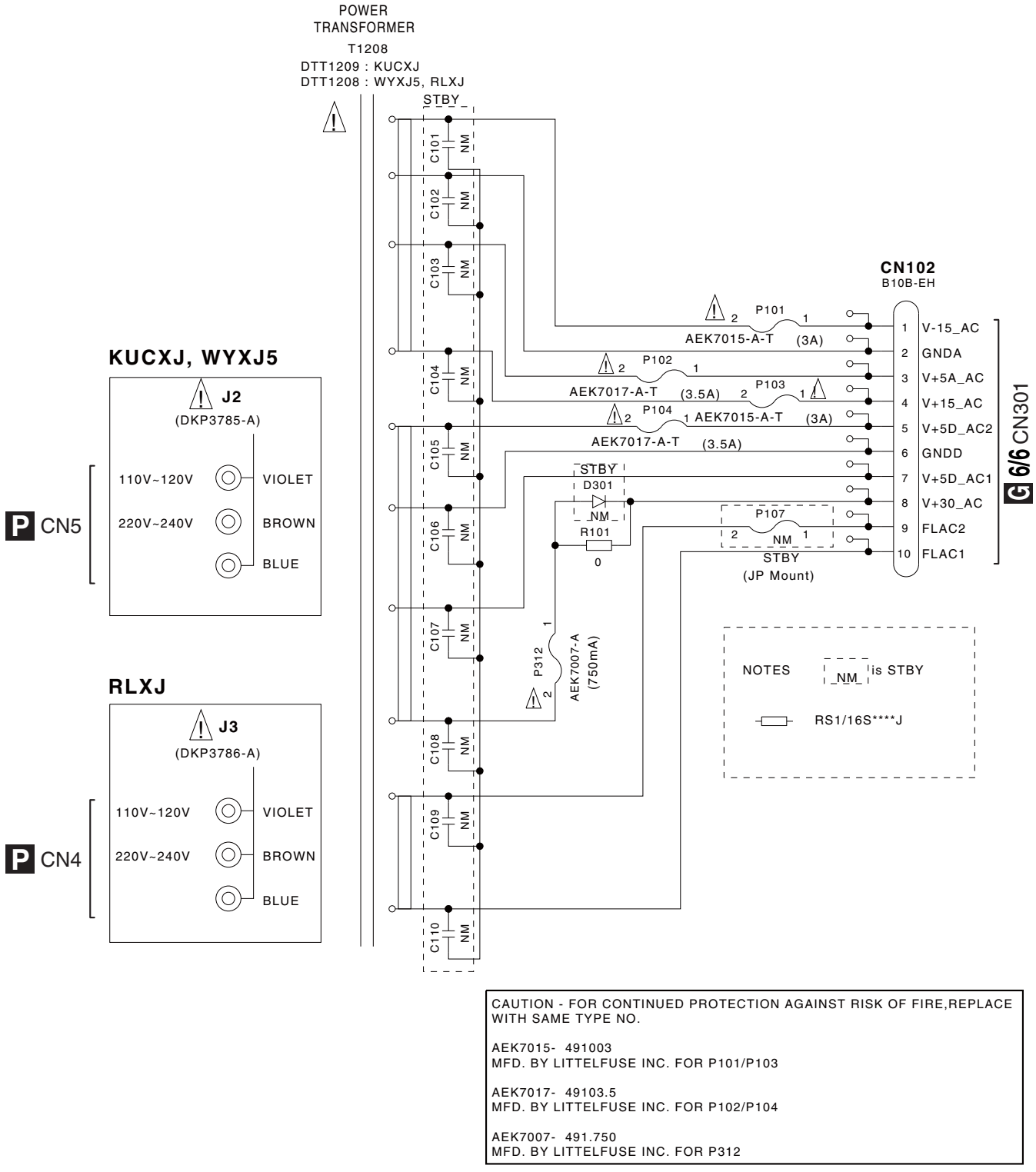
10.23 REG ASSY

N REG ASSY (DWX2689)



10.24 TRANS ASSY

O TRANS ASSY (DWX2688 : KUCXJ, WYXJ5)
(DWX2757 : RLXJ)



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

AEK7015- 491003
MFD. BY LITTELFUSE INC. FOR P101/P103

AEK7017- 49103.5
MFD. BY LITTELFUSE INC. FOR P102/P104

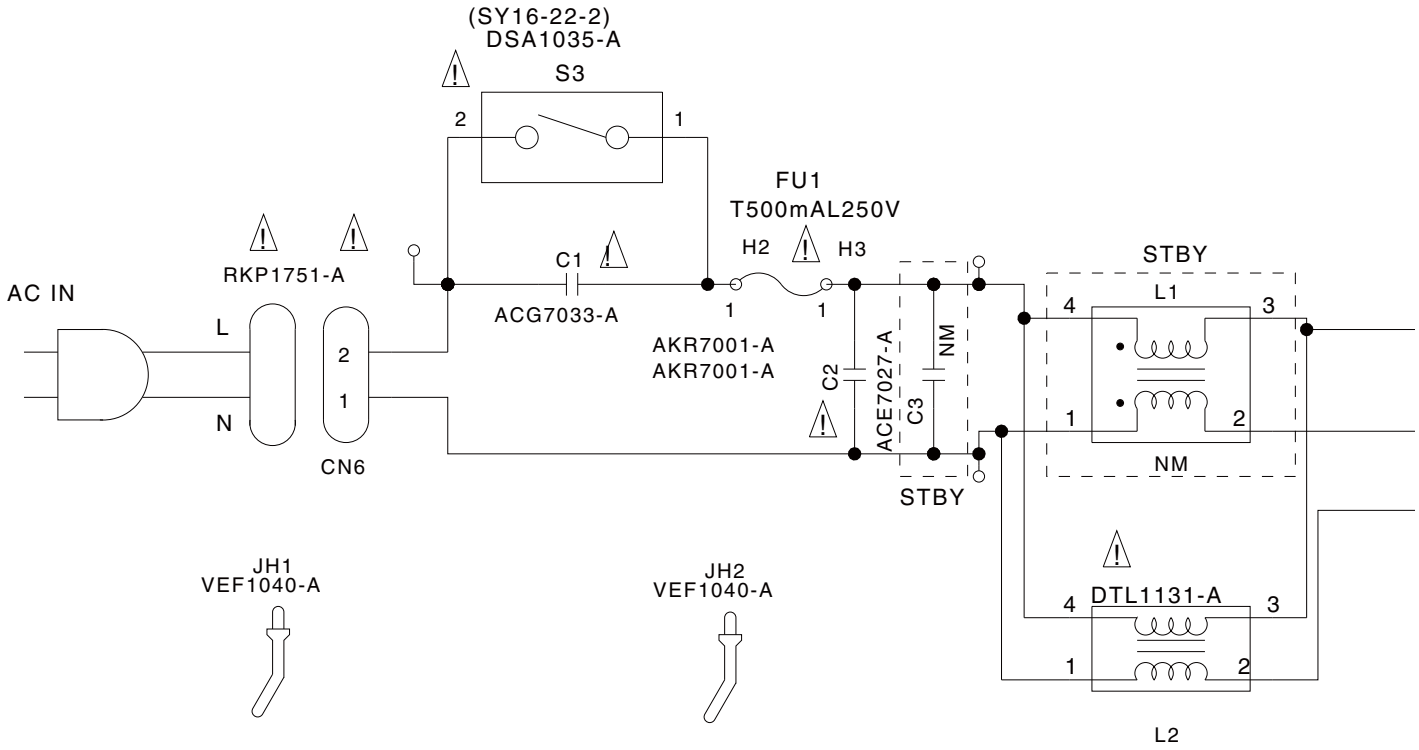
AEK7007- 491.750
MFD. BY LITTELFUSE INC. FOR P312

O

10.25 PRIMARY ASSY

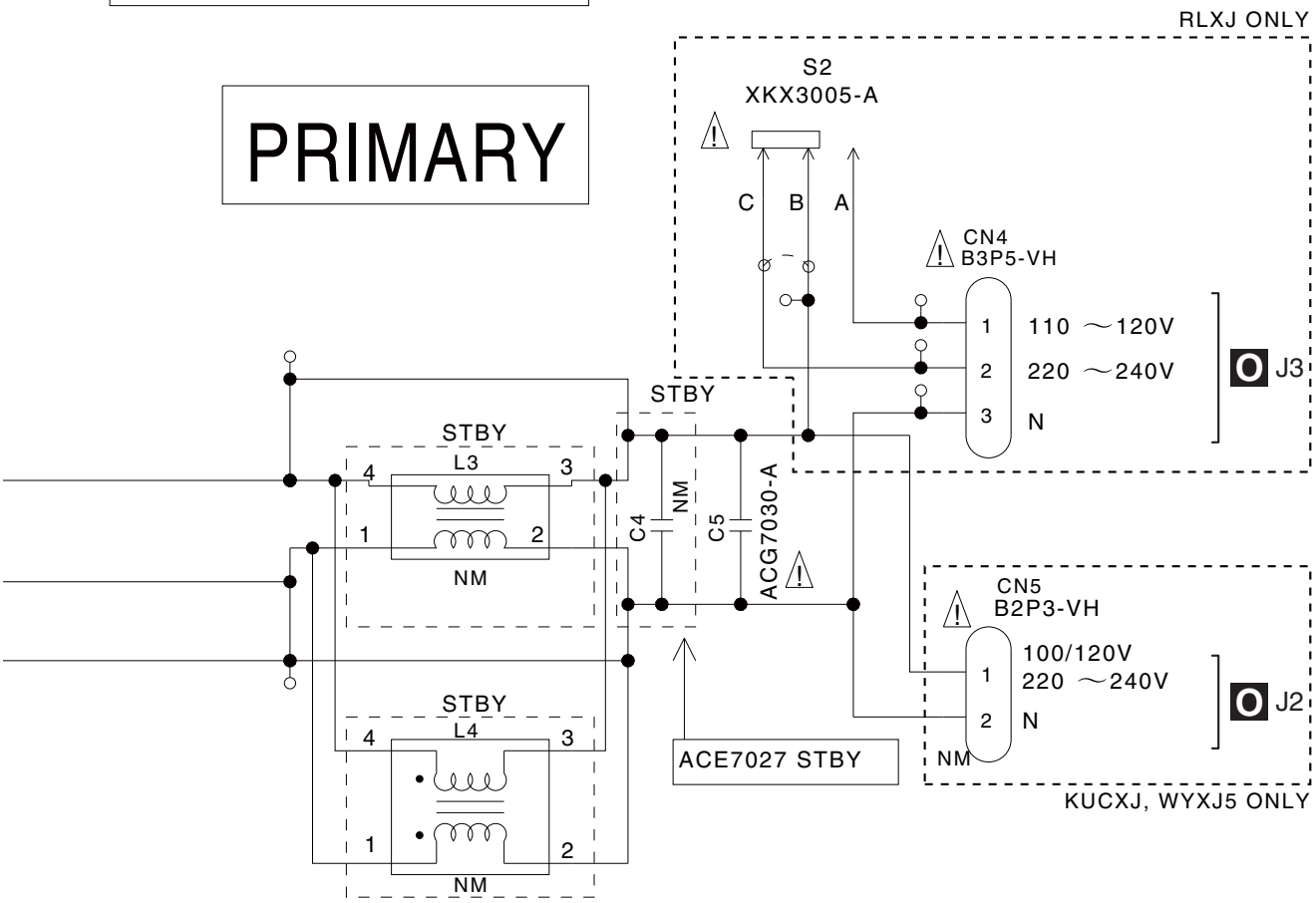
P PRIMARY ASSY (DWX2687 : KUCXJ, WYXJ5)
(DWX2692 : RLXJ)

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,REPLACE ONLY
WITH SAME TYPE NO.218.500 MFD. BY LITTELFUSE FOR FU1.



NOTES NM is STBY

PRIMARY



10.26 VOLTAGES

Measurement Condition

Input connectors	CD/LINE	Nothing
	PHONO	Nothing
	RETURN	Nothing
	MIC1	Nothing
	MIC2	Nothing
Output connectors	MASTER1	Non connction
	MASTER2	Non connction
	REC	Non connction
	BOOTH	Non connction
	SEND	Non connction
	DIGITAL OUT	Non connction
	HP	Non connction
MIC	MIC LEVEL 1	Max
	MIC LEVEL 2	Max
	MIC EQ HI	Center
	MIC EQ LOW	Center
	MIC TKOV.	OFF
FADER ST.		All Ch OFF
FREQUENCY		Center
HP	HP MONO/STEREO	STEREO
	MIXING	Center
	LEVEL	Max
CH	INPUT SELECT	All Fully counter clock wise direction (CDorLINE)
	TRIM	Max
	EQ HI	Center
	EQ MID	Center
	EQ LOW	Center
	CUE	All OFF
	FADER	All Max
	CROSS FADER ASSIGN	All Ch THRU
CRS FADER		Center
MASTER	LEVEL	Max
	BALANCE	Center
	CUE	OFF
	MONO/STEREO	STEREO
BOOTH MONITOR		Max
CH FADER CURVE		FLAT
CRS FADER CURVE		Center
EFFECT	AUTO/TAP	AUTO
	MIDI START/STOP	START
	CUE	OFF
	EFFECT	DERAY
	CHANNEL	MASTER
	TIME	-
	LEVEL/DEPTH	Max
	ON/OFF	OFF (Lighting)
REAR	MASTER ATT.	0dB
	fs	96K

Notes:

- On grounding during diagnosis of the MAIN Assy
  When the flexible cables or other cables that connect between the MAIN Assy and INPUT or OUTPUT Assys are removed, ground for some audio analog signals may be shifted upward from the chassis. In such a case, connect the frame of the phono plug (GND) and the chassis (GND) then perform diagnosis.
- On grounding during diagnosis of the INPUT or OUTPUT Assy
  When the INPUT or OUTPUT Assy is removed, ground for some audio analog signals may be shifted upward from the chassis. In such a case, connect the frame of the phono plug (GND) and the chassis (GND) then perform diagnosis.

■ VOLTAGES

D 1/4 MAIN ASSY

IC1101 (DYW1761-A/J)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	0.27	51	0
2	0	52	1.61
3	0	53	1.61
4	0	54	2.01
5	0 (*)	55	1.62
6	3.16	56	0
7	3.16	57	0
8	3.16	58	0
9	0	59	0
10	0	60	0
11	0	61	0.42
12	0	62	0.42
13	0	63	0.42
14	0	64	0.42
15	0	65	0.42
16	0.3	66	0.42
17	0	67	0.42
18	3.17	68	0.37
19	1.52	69	3.24
20	0	70	3.24
21	0	71	0
22	0.22	72	0
23	0.22	73	1.6
24	0	74	1.6
25	0	75	0
26	0.21	76	0
27	0	77	0.36
28	0.21	78	0
29	0	79	0.36
30	3.16	80	0.37
31	0	81	0
32	0	82	0
33	0.21	83	0.16
34	0.21	84	0.94
35	0	85	0
36	0	86	3.05
37	0	87	3.22
38	0	88	3.23
39	0	89	3.23
40	0	90	3.23
41	0	91	0
42	0	92	0
43	0	93	0
44	0	94	1.54
45	0	95	0.03
46	0	96	2.43
47	3.11	97	0
48	3.16	98	0
49	3.16	99	3.23
50	3.11	100	3.23

D 1/4 MAIN ASSY

IC1205 (DYW1760-A/J)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	0	51	0
2	0	52	0
3	0	53	0
4	0	54	0
5	0 (*)	55	0
6	3.22	56	1.48
7	3.22	57	1.76
8	3.22	58	1.76
9	0	59	0
10	0	60	0
11	0	61	0
12	0	62	0
13	0	63	0
14	0	64	0
15	0	65	0
16	0	66	0
17	0	67	0
18	3.23	68	3.19
19	1.59	69	0
20	0	70	3.21
21	1.02	71	0
22	1.01	72	3.19
23	1.03	73	0
24	1.06	74	3.21
25	1.03	75	0
26	1.06	76	0
27	1.03	77	3.21
28	1.01	78	3.21
29	1.61	79	3.19
30	3.24	80	0
31	1.01	81	3.15
32	1.1	82	3.18
33	0	83	3.16
34	0	84	0
35	0	85	3.17
36	0	86	3.18
37	0	87	0
38	2	88	0
39	3.24	89	0
40	0	90	3.18
41	0	91	0
42	0	92	0
43	3.22	93	0
44	0	94	1.5
45	0.01	95	0
46	3.24	96	2.38
47	3.22	97	0
48	1.57	98	0
49	1.57	99	3.18
50	3.22	100	3.18

- If the level is low (less than 1 V), the microcomputers are operating on the external clock (X'tal). (OK)
- If the level is high (3.3 V), the microcomputers are operating on the internal clock. (NG)

■ Confirmation of microcomputer operation

Although the microcomputers normally operate on the external clock (X'tal), they may operate on the internal clock. In such a case, performance cannot be guaranteed. Whether the microcomputers are operating on the external or internal clock can be detected by checking whether the output from Pin 5 of IC1101 or IC1205 is low or high.

Overview:

The purpose is to check if the 20-MHz clock is input to the microcomputers IC1101 and IC1205 from the X'tal and if they operate properly with that clock.

Description:

For the microcomputers IC1101 and IC1205 of this unit, users can select whether the internal clock from the built-in oscillation circuit or the external clock is to be used after initialization of the unit. After the first startup and reset is canceled, the unit operates on the internal clock from the built-in high-speed oscillation circuit (default setting: 4 MHz) until user setting is made. By so doing, the microcomputers can continue operation with the internal clock if signals from the external clock are not supplied for any reason. The discrepancy in clock frequencies, which is not apparent visually, may be detected with the following phenomena, because the discrepancy in clock frequencies results in a discrepancy in processing speed:

Main microcomputer:
Discrepancy in the MIDI timing clock

Sub-microcomputer:
Discrepancy in frequencies of LED's lighting/flashing
Discrepancy in frequencies of FL's flashing

How to judge:

The microcomputers IC1101 and IC1205 can detect whether the clock on which they are operating is internal or external, by referring to the value of an internal register. After initialization is completed, they refer to that value and judge whether or not they are operating on the external clock then output the result (low or high) from the specified terminal.

Terminal from which the result is output: Pin 5 (IC1101 and IC1205)

Status of terminal (voltage)	Result	Remarks
Low	OK	The microcomputers are operating on the 20-MHz external clock (X'tal).
High	NG	The microcomputers are operating on the internal clock.

Note:

Only whether the operating clock is external or internal can be judged by the microcomputers. They cannot judge whether the frequency of the external clock is 20 MHz or not. If a clock whose frequency is not 20 MHz is supplied, the microcomputers operate on that clock.

E PANEL 1 ASSY

IC5002 (NJM2903M)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	4.91	5	0
2	0.14	6	0
3	3.23	7	0
4	0	8	4.93

F PANEL 2 ASSY

IC6002 (TC74HCT08AF-TBB)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	0.77	8	1
2	0.04	9	0.11
3	0.002	10	1.34
4	0	11	0.2
5	1.5	12	0
6	0	13	0.91
7	0.58	14	0.91

N REG ASSY

IC201 (NJM78M15FA)

Pin No	Voltage(V)
1	14.79
2	-0.05
3	23.01

N REG ASSY

IC202 (NJM79M15FA)

Pin No	Voltage(V)
1	-0.04
2	-23.21
3	-15.36

N REG ASSY

IC203 (BA05T)

Pin No	Voltage(V)
1	9.46
2	0.002
3	5.017

G 6/6 OUTPUT ASSY

IC301 (BD9703T-V5)

Pin No	Voltage(V)
1	12.58
2	4.995
3	-0.057
4	0.941
5	11.52

G 6/6 OUTPUT ASSY

IC303 (NJM78M05FA)

Pin No	Voltage(V)
1	5
2	0
3	12.53

G 6/6 OUTPUT ASSY

IC304 (NJM79M05FA)

Pin No	Voltage(V)
1	-5
2	-13.16
3	0

D 1/4 MAIN ASSY

IC1304 (XC3S50-4TQG144C)

Pin no	Voltage(V)	Pin no	Voltage(V)	Pin no	Voltage(V)
1	3.01	60	0	119	2.06
2	3.01	61	1.12	120	2.42
3	3.18	62	2.45	121	1.11
4	3.01	63	0	122	1.56
5	3.01	64	0	123	1.62
6	3.01	65	0	124	2.01
7	2.99	66	3.2	125	1.56
8	3.02	67	0	126	3.19
9	0	68	0	127	0
10	2.94	69	0	128	1.43
11	2.91	70	0	129	1.61
12	3.03	71	2.43	130	2
13	3.12	72	2.45	131	1.56
14	3.01	73	1.02	132	1.62
15	3	74	1	133	1.12
16	0	75	3.2	134	2.43
17	2.98	76	1	135	1.98
18	2.99	77	1.02	136	0
19	3.16	78	1.01	137	1.57
20	0	79	0.99	138	3.2
21	0	80	0.99	139	0
22	0	81	0	140	3.13
23	0	82	1.02	141	3.19
24	3.15	83	0.98	142	0
25	0	84	1	143	2.43
26	0	85	0	144	2.43
27	0	86	0		
28	3.14	87	0		
29	0	88	0		
30	3.12	89	3.2		
31	0	90	3.2		
32	3.03	91	3.2		
33	3.02	92	0		
34	3.16	93	0		
35	3.02	94	0		
36	3.02	95	0		
37	2.4	96	0		
38	2.4	97	0		
39	2.4	98	0		
40	3.02	99	0		
41	3.01	100	0		
42	0	101	0		
43	3.17	102	0		
44	3.01	103	0		
45	0	104	0		
46	3.16	105	0		
47	0	106	3.2		
48	2.5	107	0		
49	1.16	108	0		
50	0	109	2.43		
51	0	110	2.49		
52	3.21	111	2.49		
53	3.21	112	0		
54	3.22	113	0		
55	0	114	0		
56	1.6	115	3.18		
57	0	116	1.56		
58	3.22	117	0		
59	1.97	118	1.62		

D 2/4 MAIN ASSY

IC1001 (S-1200B33-M5)

Pin No	Voltage(V)
1	4.98
2	0
3	4.98
4	0
5	3.25

D 2/4 MAIN ASSY

IC1002 (BD9109FVM)

Pin No	Voltage(V)
1	3.12
2	0.76
3	4.77
4	0
5	0
6	3.13
7	4.77
8	4.77

D 2/4 MAIN ASSY

IC1003 (BD9106FVM)

Pin No	Voltage(V)
1	0.46
2	0.55
3	4.49
4	0
5	0
6	0.85
7	4.46
8	4.45

D 2/4 MAIN ASSY

IC1004 (S-1200B25-M5)

Pin No	Voltage(V)
1	3.24
2	0
3	3.24
4	0
5	2.49

D 2/4 MAIN ASSY

IC1402 (K4S641632K-UC75)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	3.22	28	0
2	3.04	29	2.87
3	3.21	30	2.87
4	3.04	31	2.87
5	3.05	32	2.86
6	0	33	0
7	0	34	0
8	3.22	35	0
9	3.22	36	0
10	3.04	37	2.98
11	3.03	38	1.33
12	0	39	2.91
13	3.07	40	0
14	3.21	41	0
15	3.15	42	2.83
16	3.2	43	2.96
17	3.18	44	2.86
18	3.19	45	2.87
19	3.19	46	0
20	0.1 - 3.2	47	2.7
21	2.98	48	2.89
22	0	49	2.96
23	0	50	2.89
24	3.08	51	2.69
25	3.07	52	0
26	3.07	53	2.69
27	3.22	54	0

D 2/4 MAIN ASSY

IC1403 (DYW1762-C/J)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	0	25	0
2	0	26	3.21
3	2.98	27	0
4	0 - 3.04	28	3.19
5	0	29	3
6	0	30	3.08
7	0	31	3.17
8	0	32	3.18
9	0	33	3.17
10	0	34	3.18
11	3.2	35	3.18
12	3.18	36	3.17
13	0	37	3.21
14	0	38	3.17
15	0	39	3.17
16	0	40	3.18
17	0	41	3.17
18	3.06	42	3.17
19	3.06	43	3.18
20	3.07	44	3.19
21	3.07	45	2.94
22	3.07	46	0
23	3.07	47	3.21
24	3.08	48	0

D 2/4 MAIN ASSY

IC1401 (D61OAOO3BPYPA225)

Pin No	Voltage(V)	Pin No	Voltage(V)	Pin No	Voltage(V)	Pin No	Voltage(V)
1	0.07-3.24	60	1	119	3.12	178	0
2	3.24	61	3.05	120	3.12	179	0.09
3	1.16	62	1.63	121	2.97	180	0
4	0	63	3.11	122	2.98	181	0.94
5	3.24	64	3.1	123	2.97	182	0
6	3.24	65	3.24	124	0	183	3.06
7	0	66	0	125	0	184	0
8	0	67	1.16	126	3.01	185	0
9	3.24	68	3.1	127	0	186	3.07
10	0	69	3.1	128	2.99	187	0
11	1.16	70	3.1	129	2.99	188	3.07
12	1.6	71	3.09	130	2.99	189	0
13	0	72	3.24	131	2.98	190	0.98
14	1.16	73	0	132	2.98	191	3.06
15	0	74	3.09	133	0.94	192	3.06
16	1.67	75	3.22	134	0	193	3.06
17	2.46 - 2.51	76	0	135	3.24	194	0
18	2.46 - 2.49	77	1.61	136	0	195	0
19	1.68	78	0.16	137	0	196	0.98
20	2.43 - 2.49	79	3.21	138	3.24	197	0
21	1.62	80	1.16	139	1.62	198	3.06
22	1.16	81	0	140	1.67	199	0
23	0	82	0	141	3.24	200	0
24	1.46	83	3.23	142	0	201	0.98
25	3.08	84	3.24	143	0.8	202	3.06
26	0	85	0	144	0	203	0
27	2.31	86	0	145	0	204	1.37
28	1.45	87	3.24	146	0	205	3.06
29	1	88	0	147	1.35	206	3.05
30	0	89	1.16	148	0	207	0
31	0	90	0 - 3.01	149	1.16	208	0.96
32	0.6	91	0	150	1.24 - 1.4		
33	0	92	0	151	3.2		
34	0	93	0	152	3.2		
35	1	94	3.03	153	1.67		
36	0	95	0	154	0		
37	0	96	1.17	155	1.62		
38	0	97	0	156	3.24		
39	0	98	3.24	157	1.16		
40	1	99	0	158	0		
41	0	100	0	159	1.49		
42	0	101	0	160	3.24		
43	1	102	3.23	161	1.49		
44	3.08	103	3.24	162	3.24		
45	0	104	1.16	163	3.23		
46	1	105	1.15	164	3.23		
47	3.08	106	0	165	3.23		
48	0	107	0	166	3.23		
49	0	108	3.21	167	3.23		
50	1	109	0	168	3.23		
51	1	110	3.15	169	1.16		
52	0	111	3.14	170	0		
53	1	112	2.95	171	0		
54	0	113	2.95	172	3.23		
55	3.08	114	3.21	173	0		
56	3.08	115	0	174	3.24		
57	3.08	116	1.13	175	0		
58	3.08	117	2.96	176	3.21		
59	0	118	3.14	177	1.16		

D 3/4 MAIN ASSY

IC1511 (WM8786GEDS/V)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	2.54	11	3.23
2	2.53	12	0
3	0	13	3.23
4	4.97	14	0
5	0	15	3.24
6	1.6	16	0
7	0.76 - 0.8	17	2.52
8	1.66	18	4.05
9	1.89	19	2.53
10	0	20	2.54

D 3/4 MAIN ASSY

IC1512 (WM8786GEDS/V)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	2.54	11	3.29
2	2.53	12	0
3	0	13	3.29
4	4.97	14	0
5	0	15	3.29
6	1.6	16	0
7	0.77	17	2.5
8	1.65	18	3.99
9	1.89	19	2.53
10	0	20	2.54

D 3/4 MAIN ASSY

IC1513 (WM8786GEDS/V)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	2.55	11	3.19
2	2.54	12	0
3	0	13	3.19
4	4.92	14	0
5	0	15	3.19
6	1.55	16	0
7	0.72	17	2.41
8	1.59	18	3.94
9	1.75	19	2.45
10	0	20	2.46

D 3/4 MAIN ASSY

IC1514 (WM8786GEDS/V)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	2.45	11	3.19
2	2.44	12	0
3	0	13	3.19
4	4.92	14	0
5	0	15	3.19
6	1.55	16	0
7	0.74	17	2.43
8	1.59	18	3.94
9	1.74	19	2.44
10	0	20	2.45

D 4/4 MAIN ASSY

IC1604 (AK5358AET)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	2.5	9	1.4
2	2.5	10	1.61
3	0	11	1.79
4	2.5	12	1.65
5	0	13	3.24
6	4.98	14	0
7	3.6	15	0
8	0	16	0

D 4/4 MAIN ASSY

IC1605 (AK4387ET)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	1.9	9	0
2	1.66	10	2.5
3	0	11	2.5
4	1.61	12	2.47
5	3.24	13	0
6	3.23	14	4.98
7	0	15	4.94
8	0	16	0

D 4/4 MAIN ASSY

IC1601 (AK4387ET)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	1.79	9	0
2	1.65	10	2.48
3	2.13	11	2.48
4	1.61	12	2.47
5	3.24	13	0
6	3.23	14	4.98
7	0	15	4.98
8	0	16	0

D 4/4 MAIN ASSY

IC1602 (AK4387ET)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	1.81	9	0
2	1.65	10	2.5
3	2.13	11	2.5
4	1.61	12	2.5
5	3.24	13	0
6	3.23	14	4.98
7	0	15	4.98
8	0	16	0

D 4/4 MAIN ASSY

IC1603 (PCM1738EG-3)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	3.25	15	0
2	0	16	2.43
3	0	17	2.43
4	1.62	18	0
5	2.13	19	2.44
6	1.65	20	2.43
7	1.81	21	2.44
8	0	22	2.84
9	3.25	23	4.98
10	1.72	24	4.98
11	0.07	25	2.43
12	0	26	2.43
13	3.23	27	0
14	3.23	28	4.98

D 4/4 MAIN ASSY

IC1610 (AK5358AET)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	2.4	9	1.1 - 1.31
2	2.4	10	1.54
3	0	11	1.83
4	2.4	12	1.58
5	0	13	3.17
6	4.91	14	0
7	3.52	15	0
8	0	16	0

D 4/4 MAIN ASSY

IC1611 (AK4387ET)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	1.83	9	0
2	1.59	10	2.39
3	2.33	11	2.39
4	1.54	12	2.4
5	3.17	13	0
6	3.16	14	4.91
7	0	15	4.86
8	0	16	0

D 4/4 MAIN ASSY

IC1702 (AD1895AYRS)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	0	15	0
2	1.63	16	0
3	1.12	17	0
4	3.04	18	0
5	1.48	19	0
6	1.42	20	0
7	3.04	21	0
8	0	22	3.06
9	0	23	0.88
10	0	24	1.43
11	0	25	1.44
12	0	26	0
13	3.05	27	3.06
14	0	28	0

D 4/4 MAIN ASSY

IC1703 (AK4114VQ)

Pin No	Voltage(V)	Pin No	Voltage(V)
1	1.48	25	0.28
2	0	26	1.59
3	1.49	27	2.09
4	0	28	0.49
5	1.49	29	1.14
6	0	30	1.8
7	1.49	31	3.21
8	0	32	0
9	0	33	0
10	0	34	3.21
11	3.14	35	3.2
12	0	36	0
13	3.14	37	0
14	0	38	3.21
15	3.14	39	1.15
16	0	40	1.15
17	1.28	41	0
18	0	42	1.56
19	0	43	0
20	0	44	1.56
21	3.13	45	0
22	0	46	1.56
23	1.93	47	0
24	1.5	48	1.56

10.27 WAVEFORMS

Waveform Measurement Conditions

IN or OUT	Measure CH	IN CH	IN LEVEL (Trim Max)	IN FREQUENCY	RL	Other settings	Other settings
IN	CD	CH1	-6dB	1K			
IN	LINE	CH1	-6dB	1K			
IN	PHONO	CH3	-46dB	1K			
IN	MIC 1/2	MIC 1/2	-46dB	1K			
IN	RETURN	RETURN	-6dB	1K		Center the Level/Depth VR	
OUT	MASTER1/2	CH1/CD	-6dB	1K	10KΩ		Center all EQs/FADER at Max
OUT	BOOTH	CH1/CD	-6dB	1K	10KΩ		Center all EQs/FADER at Max
OUT	REC	CH1/CD	-6dB	1K	10KΩ		Center all EQs/FADER at Max
OUT	SEND	CH1/CD	-6dB	1K	10KΩ		Center all EQs/FADER at Max
OUT	HP	CH1/CD	-6dB	1K	32Ω	Center HP LEVEL	Center all EQs/FADER at Max
OUT	DIG OUT	CH1/CD	-6dB	1K	75Ω		Center all EQs/FADER at Max

Switch type settings (fixed)
MASTER ATT • • • • 0dB
fs • • • • • • • • • 96K
MONO/ST • • • • • • • ST
CH FADER CURVE • • • FLAT
CROSS FADER CURVE • • • CENTER
CROSS FADER ASSIGN • • • THRU

* The output waveform is measured at the CH1CD input.

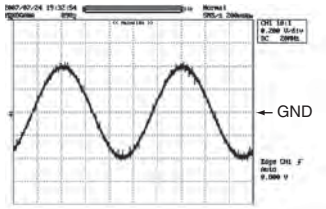
Notes:

- On grounding during diagnosis of the MAIN Assy
  When the flexible cables or other cables that connect between the MAIN Assy and INPUT or OUTPUT Assys are removed, ground for some audio analog signals may be shifted upward from the chassis. In such a case, connect the frame of the phono plug (GND) and the chassis (GND) then perform diagnosis.
- On grounding during diagnosis of the INPUT or OUTPUT Assy
  When the INPUT or OUTPUT Assy is removed, ground for some audio analog signals may be shifted upward from the chassis. In such a case, connect the frame of the phono plug (GND) and the chassis (GND) then perform diagnosis.

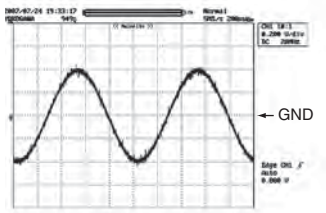
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

A INPUT ASSY

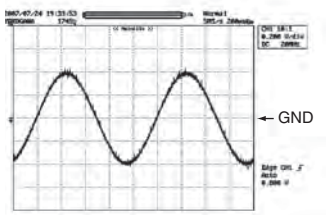
1 VR3001 - pin4 (CH1_L)
V: 0.2 V/div. H: 200 µS/div.



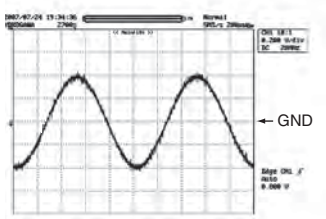
2 VR3002 - pin4 (CH2_L)
V: 0.2 V/div. H: 200 µS/div.



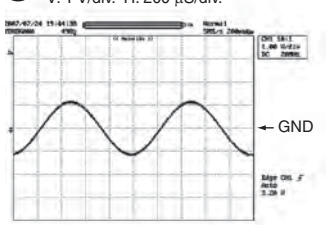
3 VR3003 - pin4 (CH3_L)
V: 0.2 V/div. H: 200 µS/div.



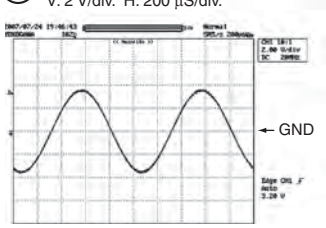
4 VR3004 - pin4 (CH4_L)
V: 0.2 V/div. H: 200 µS/div.



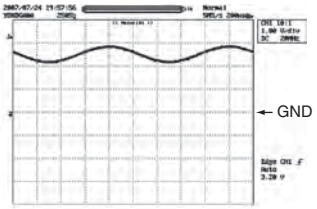
5 JA3010 - pin1 (REC_L)
V: 1 V/div. H: 200 µS/div.



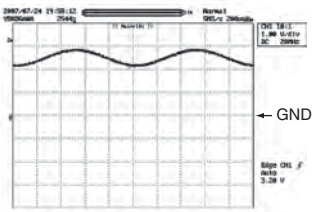
6 JA3010 - pin4 (BOOTH_L)
V: 2 V/div. H: 200 µS/div.



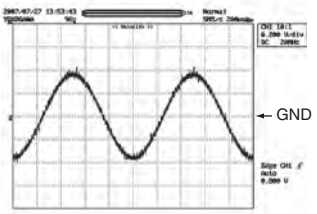
7 C3288 - +Side (MIC1_OUT)
V: 1 V/div. H: 200 µS/div.



8 C3289 - +Side (MIC2_OUT)
V: 1 V/div. H: 200 µS/div.

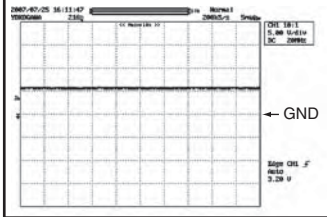


9 IC3013 - pin7 (PHONO3_L)
V: 0.2 V/div. H: 200 µS/div.

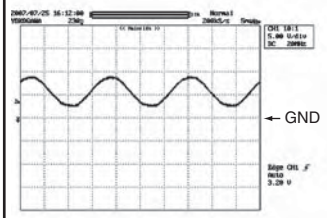


E PANEL 1 ASSY

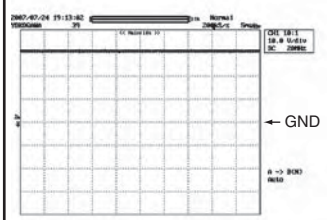
1 CN5002 - pin1,2 (FLAC1)
V: 5 V/div. H: 5 mS/div.



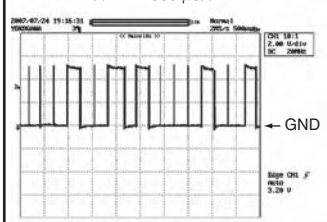
2 CN5002 - pin3,4 (FLAC2)
V: 5 V/div. H: 5 mS/div.



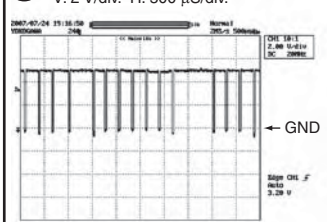
3 IC5002 - pin9 (FL_30V)
V: 10 V/div. H: 5 mS/div.



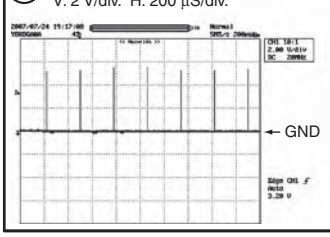
4 V5000 - pin13 (FL_DATA)
V: 2 V/div. H: 500 µS/div.



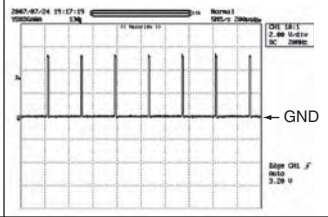
5 V5000 - pin14 (FL_CLK)
V: 2 V/div. H: 500 µS/div.



6 V5000 - pin15 (FL_LAT)
V: 2 V/div. H: 200 µS/div.



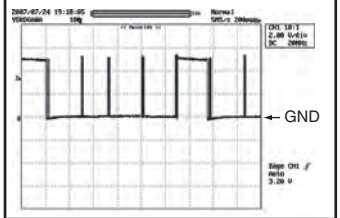
7 V5000 - Pin16 (FL_BK)
V: 2 V/div. H: 200 µS/div.



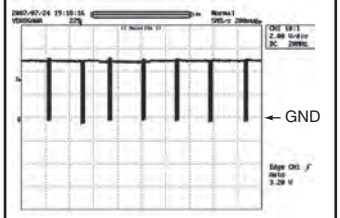
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

F PANEL 2 ASSY

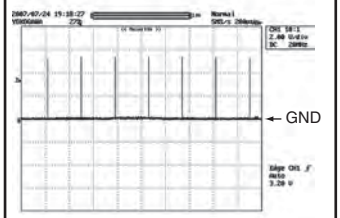
1 CN6007 - pin11 (FL_DATA)
V: 2 V/div. H: 200 µS/div.



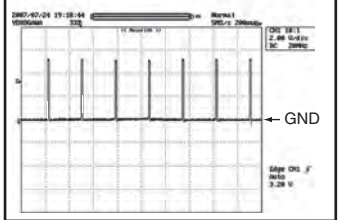
2 CN6007 - pin10 (FL_CLK)
V: 2 V/div. H: 200 µS/div.



3 CN6007 - pin9 (FL_LAT)
V: 2 V/div. H: 200 µS/div.

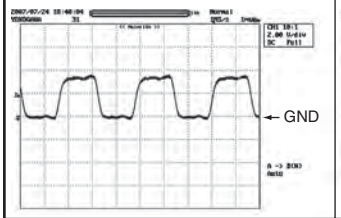


4 CN6007 - pin8 (FL_BK)
V: 2 V/div. H: 200 µS/div.

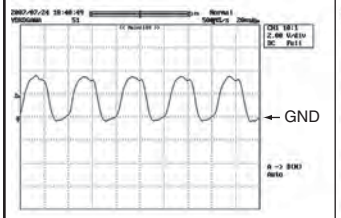


D MAIN ASSY

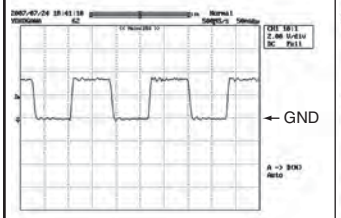
1 IC1303 - pin4 (20M_CPU)
V: 2 V/div. H: 1 mS/div.



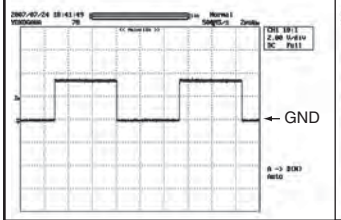
2 IC1309 - pin4 (24M_FPGA)
V: 2 V/div. H: 20 nS/div.



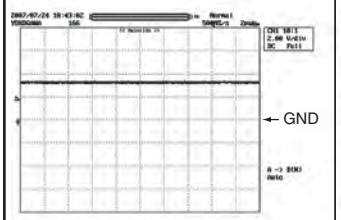
3 IC1304 - pin140 (6M_DSP)
V: 2 V/div. H: 50 nS/div.



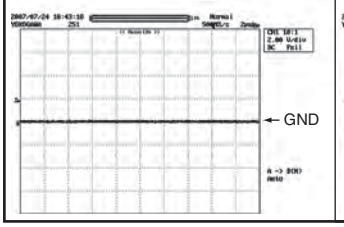
4 IC1304 - pin137 (96K_DSP)
V: 2 V/div. H: 2 µS/div.



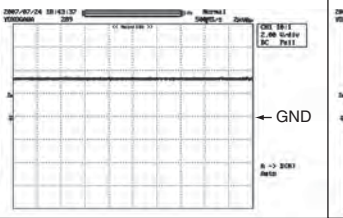
5 IC1305 - pin1 (POWER_RESET)
V: 2 V/div. H: 2 µS/div.



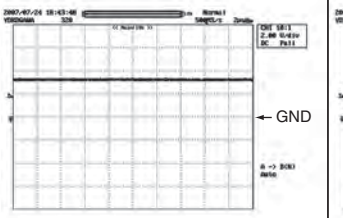
6 IC1203 - pin4 (DSP_RESET)
V: 2 V/div. H: 2 µS/div.



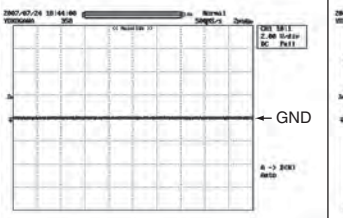
7 IC1204 - pin4 (AD/DA_RESET)
V: 2 V/div. H: 2 µS/div.



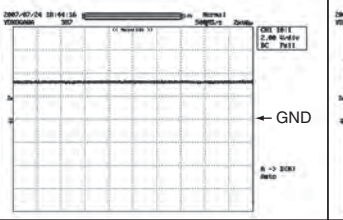
8 IC1205 - pin85 (FPGA_RESET)
V: 2 V/div. H: 2 µS/div.



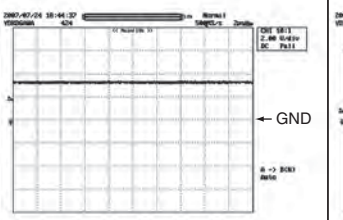
9 IC1205 - pin69 (MUTE)
V: 2 V/div. H: 2 µS/div.



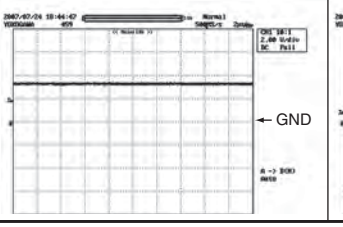
10 IC1205 - pin68 (FL_VHCTRL)
V: 2 V/div. H: 2 µS/div.



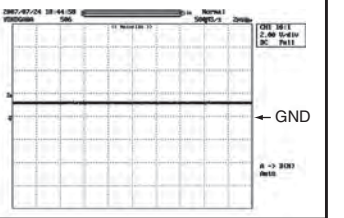
11 R1011 (V+3R3A)
V: 2 V/div. H: 2 µS/div.



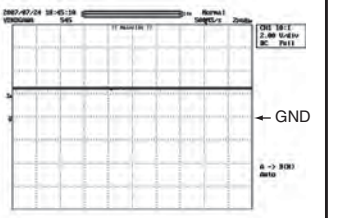
12 R1019 (V+3R3D)
V: 2 V/div. H: 2 µS/div.



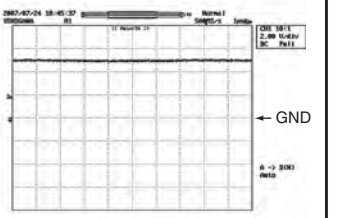
13 R1020 & C1024 (V+1R2D)
V: 2 V/div. H: 2 µS/div.



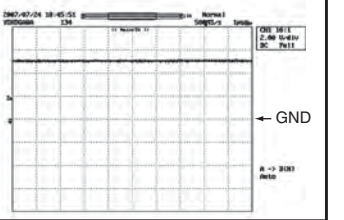
14 R1018 & C1025 (V+2R5D)
V: 2 V/div. H: 2 µS/div.



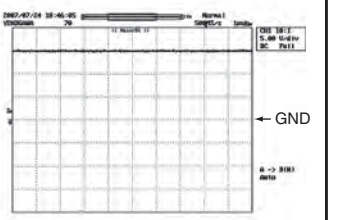
15 CN1001 - pin1 (V+5D)
V: 2 V/div. H: 1 µS/div.



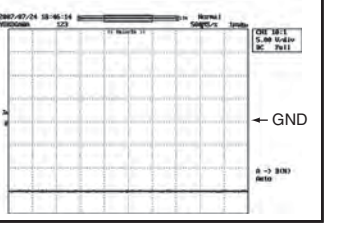
16 CN1001 - pin7 (V+5A)
V: 1 V/div. H: 200 nS/div.



17 CN1001 - pin3 (V+15A)
V: 5 V/div. H: 1 µS/div.



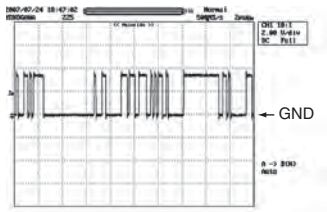
18 CN1001 - pin5 (V-15A)
V: 5 V/div. H: 1 µS/div.



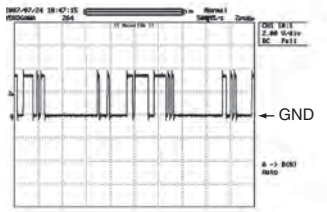
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

D MAIN ASSY

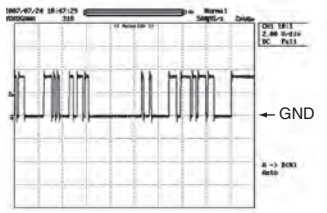
19 **IC1401 - pin143 (DATA_CH1)**
V: 2 V/div. H: 2 μS/div.



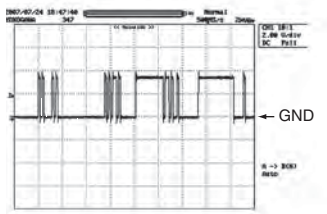
20 **IC1401 - pin144 (DATA_CH2)**
V: 2 V/div. H: 2 μS/div.



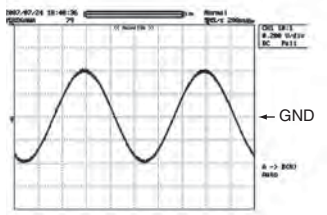
21 **IC1401 - pin145 (DATA_CH3)**
V: 2 V/div. H: 2 μS/div.



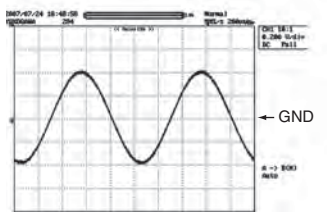
22 **IC1401 - pin146 (DATA_CH4)**
V: 2 V/div. H: 2 μS/div.



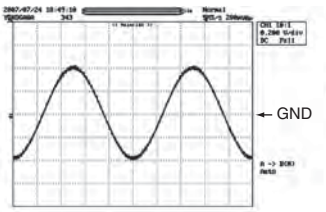
23 **CN1501 - pin17 (CH1_L)**
V: 0.2 V/div. H: 200 μS/div.



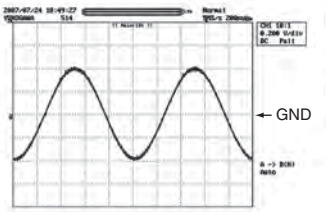
24 **CN1501 - pin7 (CH2_L)**
V: 0.2 V/div. H: 200 μS/div.



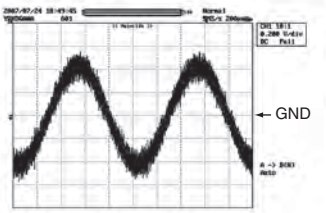
25 **CN1502 - pin15 (CH3_L)**
V: 0.2 V/div. H: 200 μS/div.



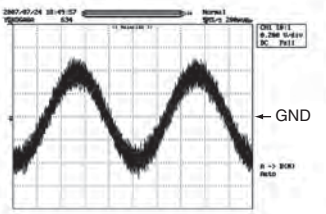
26 **CN1502 - pin7 (CH4_L)**
V: 0.2 V/div. H: 200 μS/div.



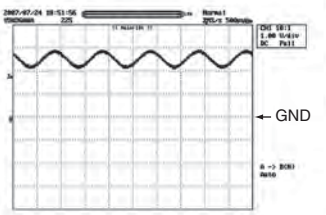
27 **CN1503 - pin4 (BOOTH_L)**
V: 0.2 V/div. H: 200 μS/div.



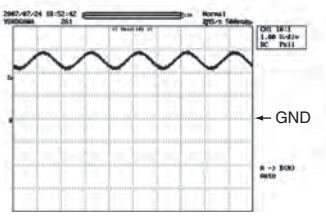
28 **CN1503 - pin6 (REC_R)**
V: 0.2 V/div. H: 200 μS/div.



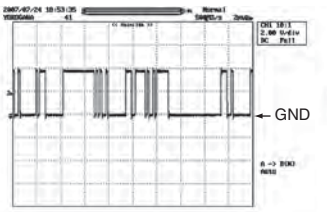
29 **CN1501 - pin30 (MIC1)**
V: 1 V/div. H: 500 μS/div.



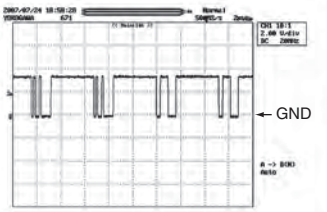
30 **CN1501 - pin26 (MIC2)**
V: 1 V/div. H: 500 μS/div.



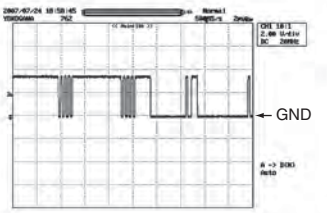
31 **IC1604 - pin9 (DATA_MIC)**
V: 2 V/div. H: 2 μS/div.



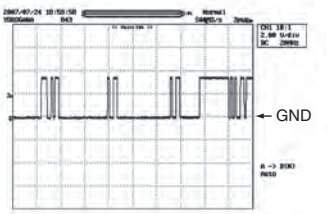
32 **IC1605 - pin3 (DATA_HP)**
V: 2 V/div. H: 2 μS/div.



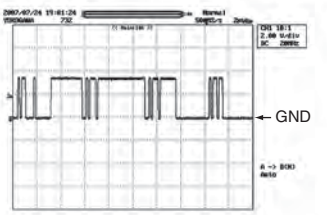
33 **IC1601 - pin3 (DATA_REC)**
V: 2 V/div. H: 2 μS/div.



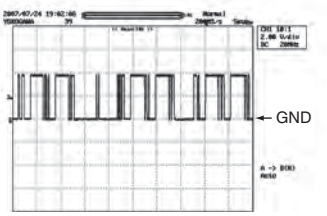
34 **IC1602 - pin3 (DATA_BOOTH)**
V: 2 V/div. H: 2 μS/div.



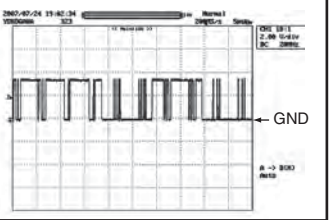
35 **IC1603 - pin5 (DATA_MASTER)**
V: 2 V/div. H: 2 μS/div.



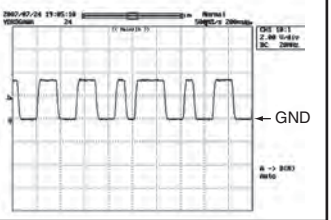
36 **IC1610 - pin9 (DATA_RETURN)**
V: 2 V/div. H: 5 μS/div.



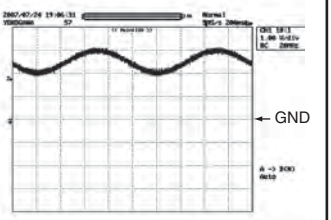
37 **IC1601 - Pin3 (DATA_SEND)**
V: 2 V/div. H: 5 μS/div.



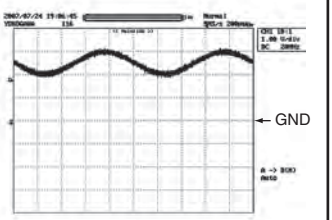
38 **CN1701 - pin7 (D_OUT)**
V: 2 V/div. H: 200 nS/div.



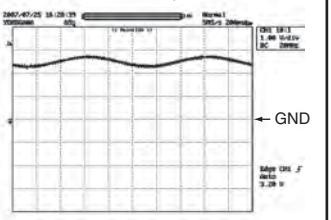
39 **CN1602 - pin1 (HP_L)**
V: 1 V/div. H: 200 μS/div.



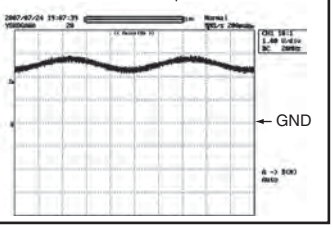
40 **CN1602 - pin3 (HP_R)**
V: 1 V/div. H: 200 μS/div.



41 **CN1602 - pin5 (RETURN_L)**
V: 1 V/div. H: 200 μS/div.



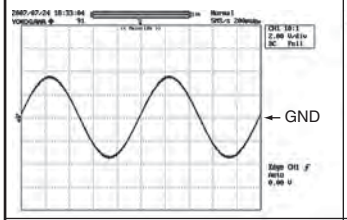
42 **CN1602 - pin9 (SEND_L)**
V: 1 V/div. H: 200 μS/div.



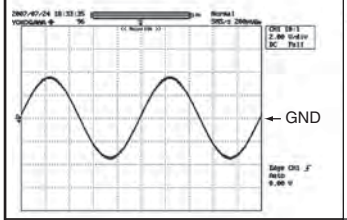
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

G OUTPUT ASSY

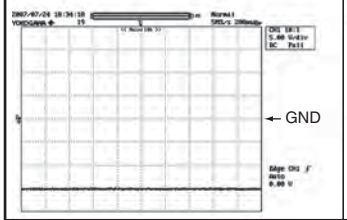
(1) R4227 & C4053 (MASTER_L_COLD)
V: 2 V/div. H: 200 μS/div.



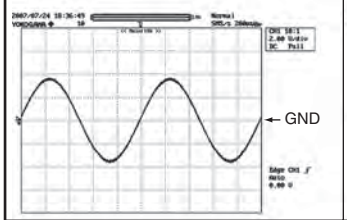
(2) R4228 & C4054 (MASTER_L_HOT)
V: 2 V/div. H: 200 μS/div.



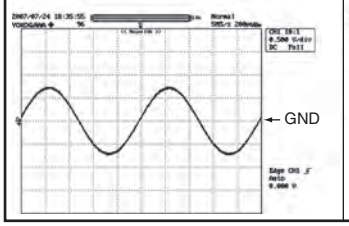
(3) D4021 & R4063 (MUTE)
V: 5 V/div. H: 200 μS/div.



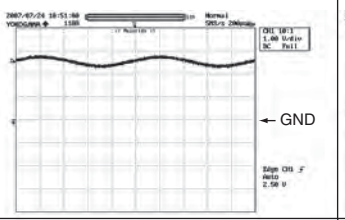
(4) JA4003 - Lch (MASTER2_L)
V: 2 V/div. H: 200 μS/div.



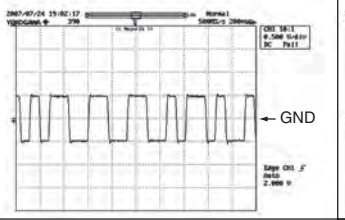
(5) JA4006 - pin2 (SEND_L)
V: 0.5 V/div. H: 200 μS/div.



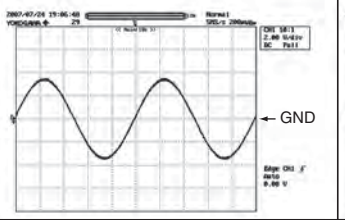
(6) C4103 - +Side (RETURN_L)
V: 1 V/div. H: 200 μS/div.



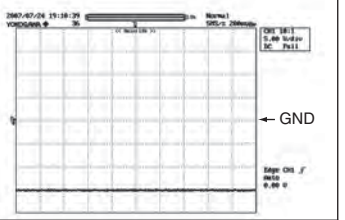
(7) JA4008 - pin2 (DIGI_OUT)
V: 0.5 V/div. H: 200 μS/div.



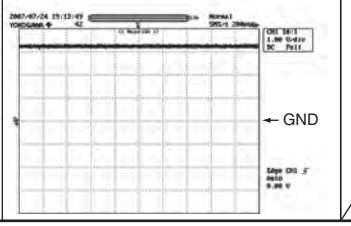
(8) C4142 - -Side (HP_L)
V: 2 V/div. H: 200 μS/div.



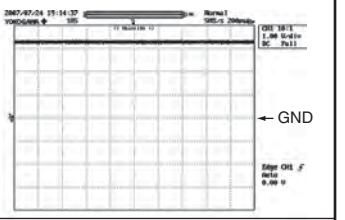
(9) CN302 - pin6 (MUTE)
V: 5 V/div. H: 200 μS/div.



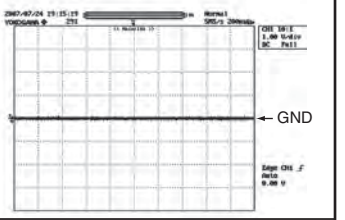
(10) R322 (CPU_MUTE)
V: 1 V/div. H: 200 μS/div.



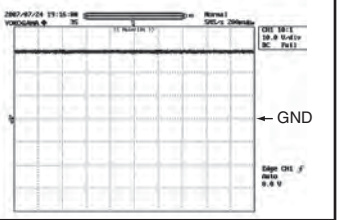
(11) Q306 - COLLECTOR (POWER_RESET)
V: 1 V/div. H: 200 μS/div.



(12) Q4035 - BASE (MUTE2)
V: 1 V/div. H: 200 μS/div.

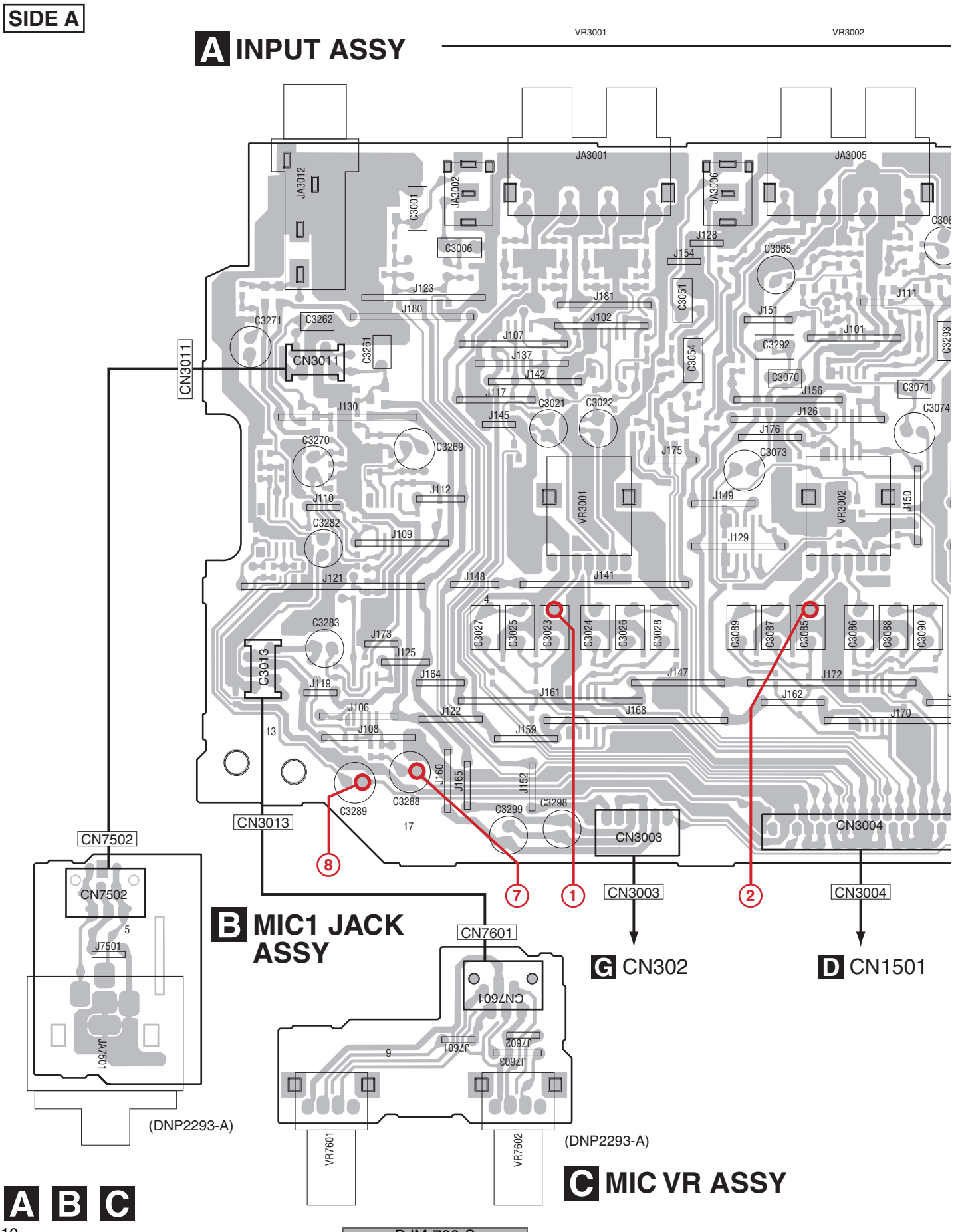


(13) CN305 - pin9 (V+30)
V: 10 V/div. H: 200 μS/div.



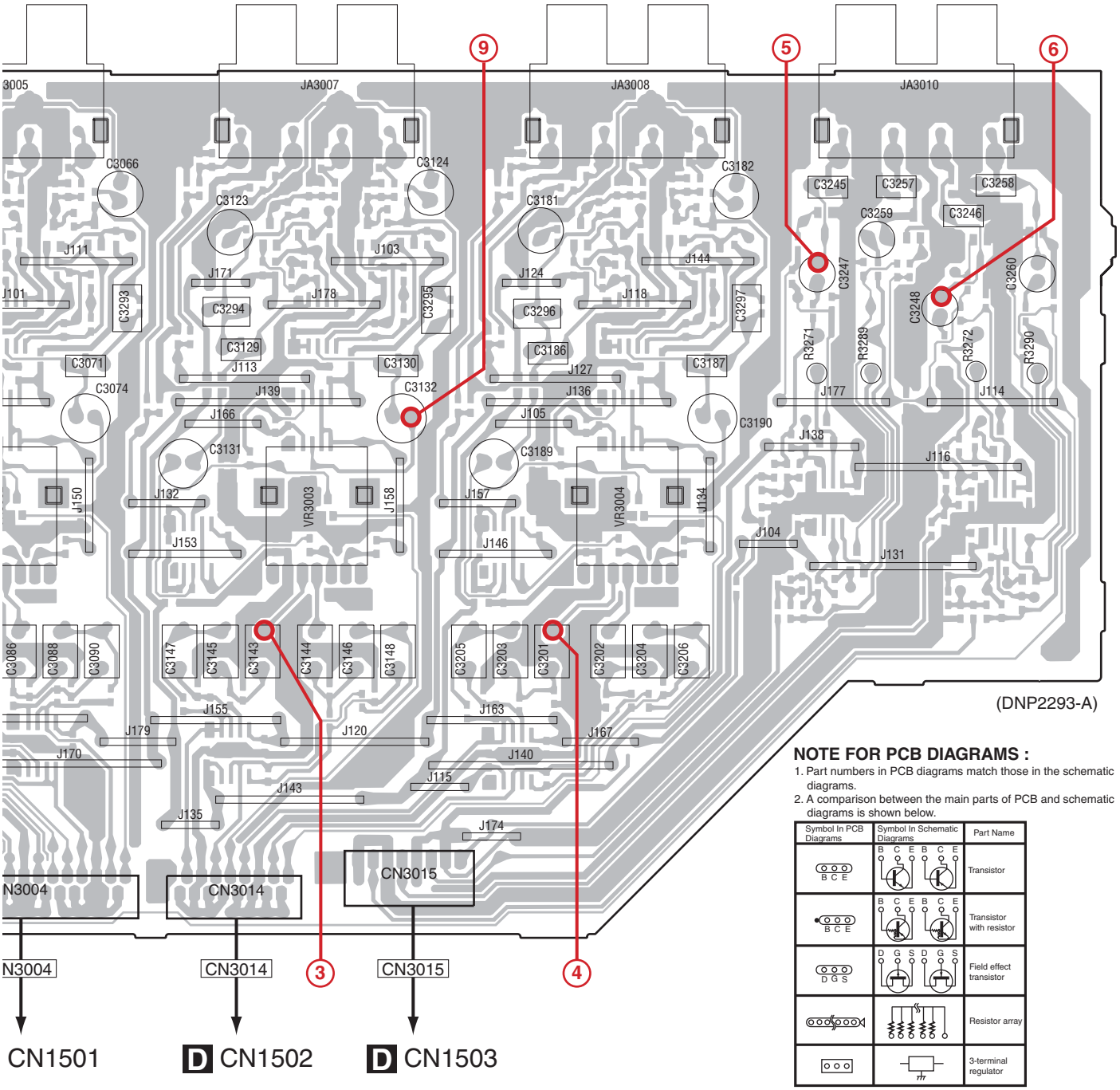
11. PCB CONNECTION DIAGRAM
11.1 INPUT, MIC1 JACK and MIC VR ASSYS

SIDE A



SIDE A

3002 VR3003 VR3004



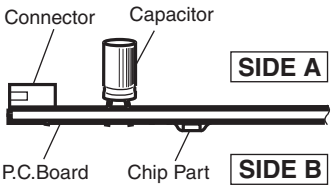
(DNP2293-A)

NOTE FOR PCB DIAGRAMS :

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

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

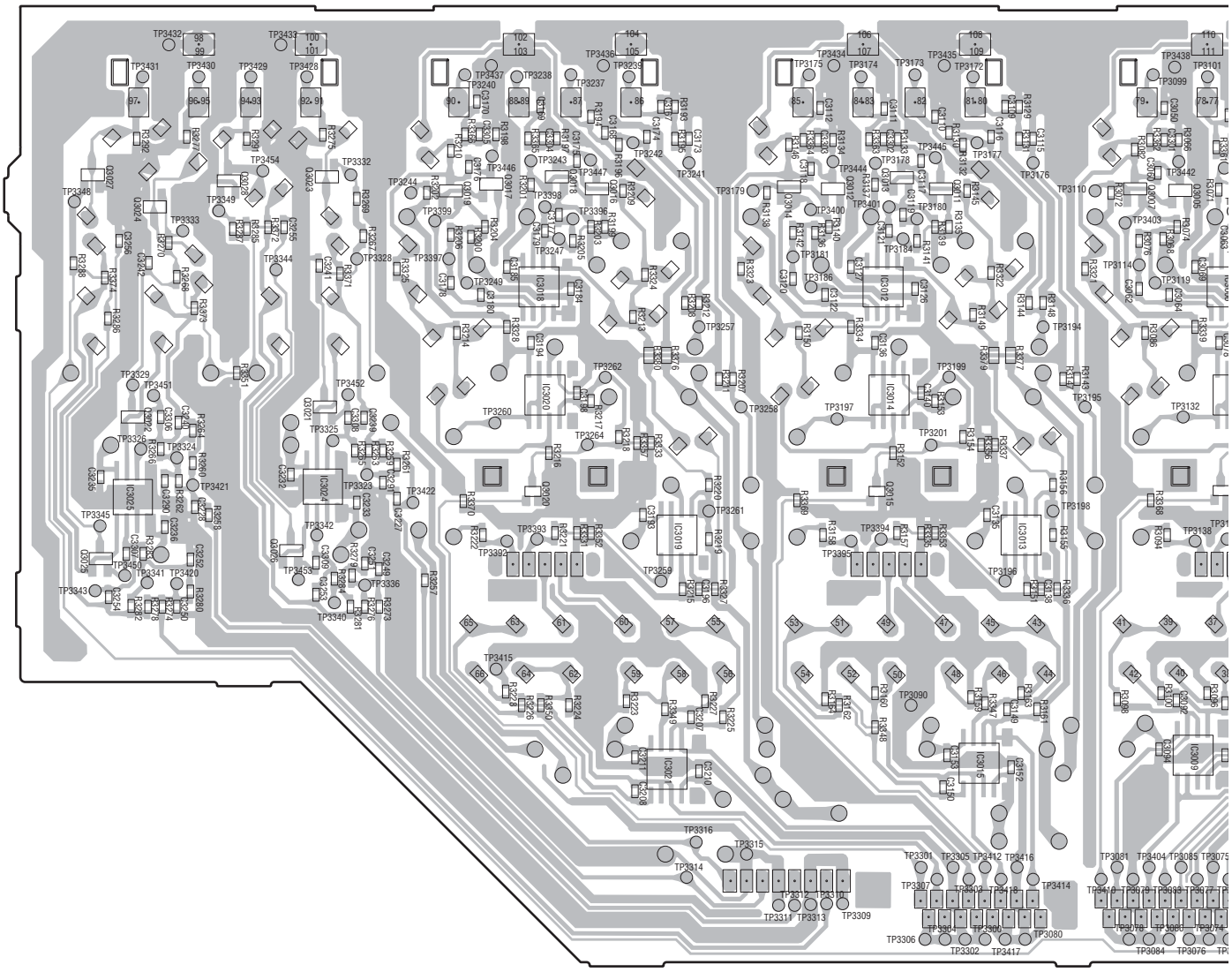
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



NOTE: The encircled numbers denote measuring point.

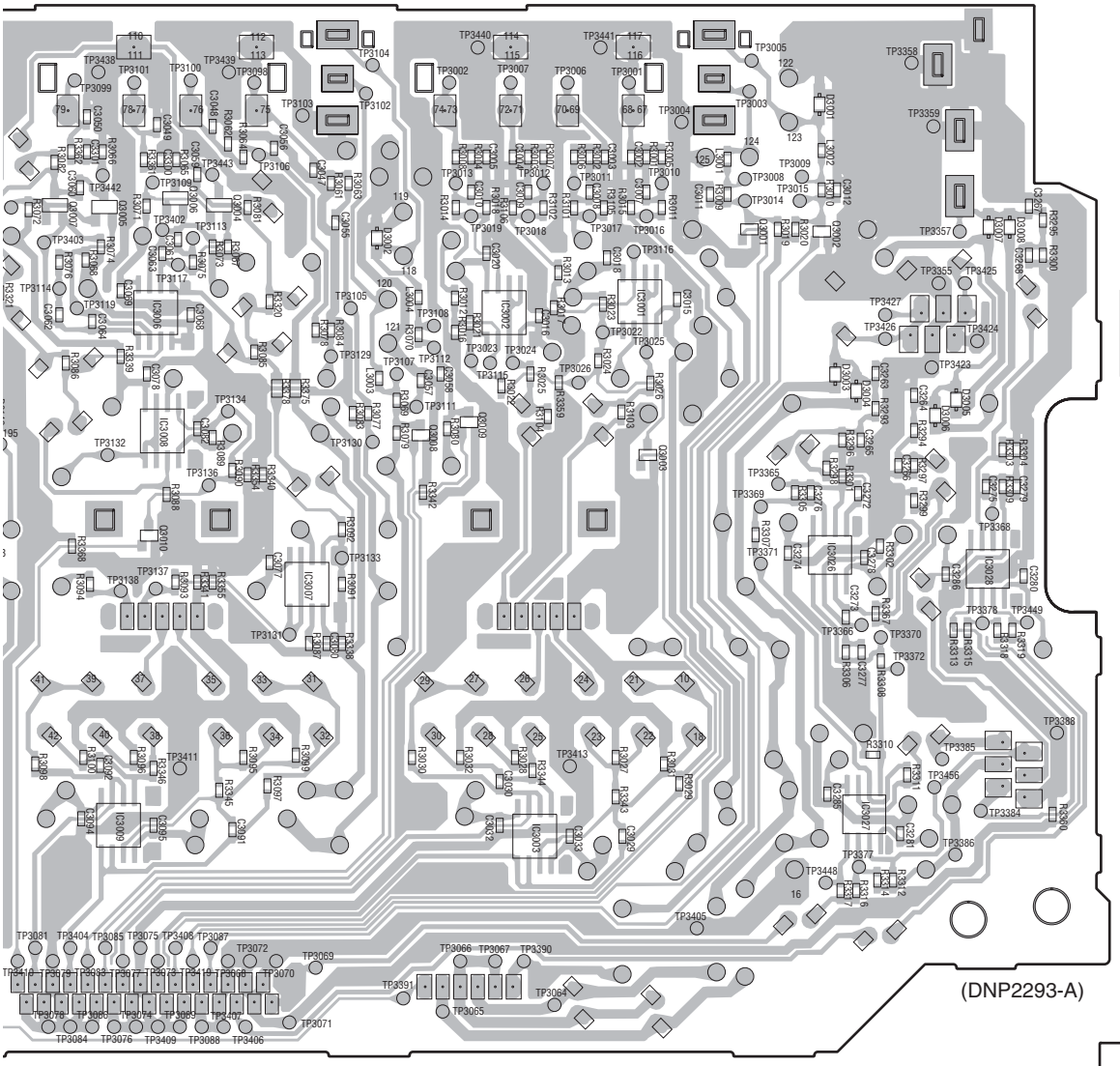
SIDE B

A INPUT ASSY



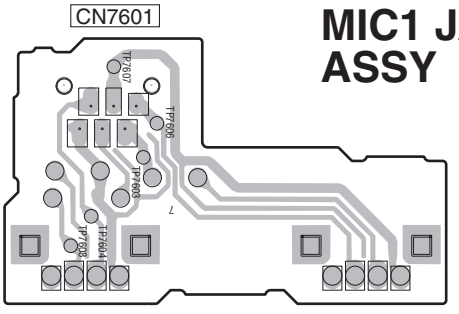
SIDE B

Q3007 Q3005 Q3006 Q3004
IC3006
IC3008
Q3010
IC3009
IC3007
Q3008 Q3009
IC3002
IC3003
IC3001
Q3003
Q3001
Q3002
IC3026
IC3027
IC3028

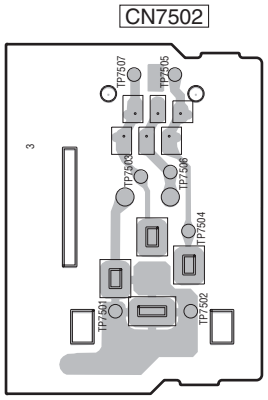


(DNP2293-A)

B MIC1 JACK ASSY



(DNP2293-A)



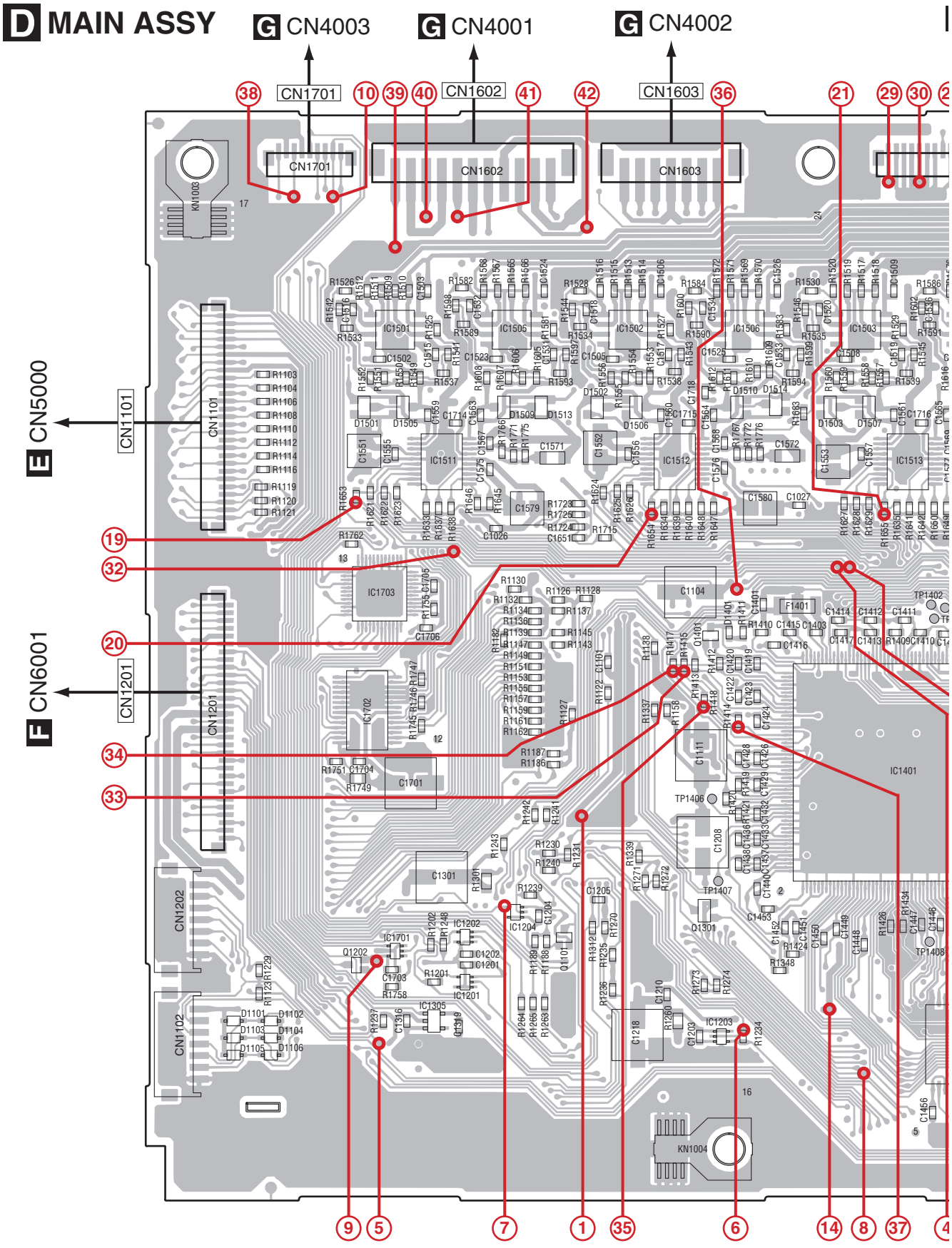
(DNP2293-A)

C MIC VR ASSY

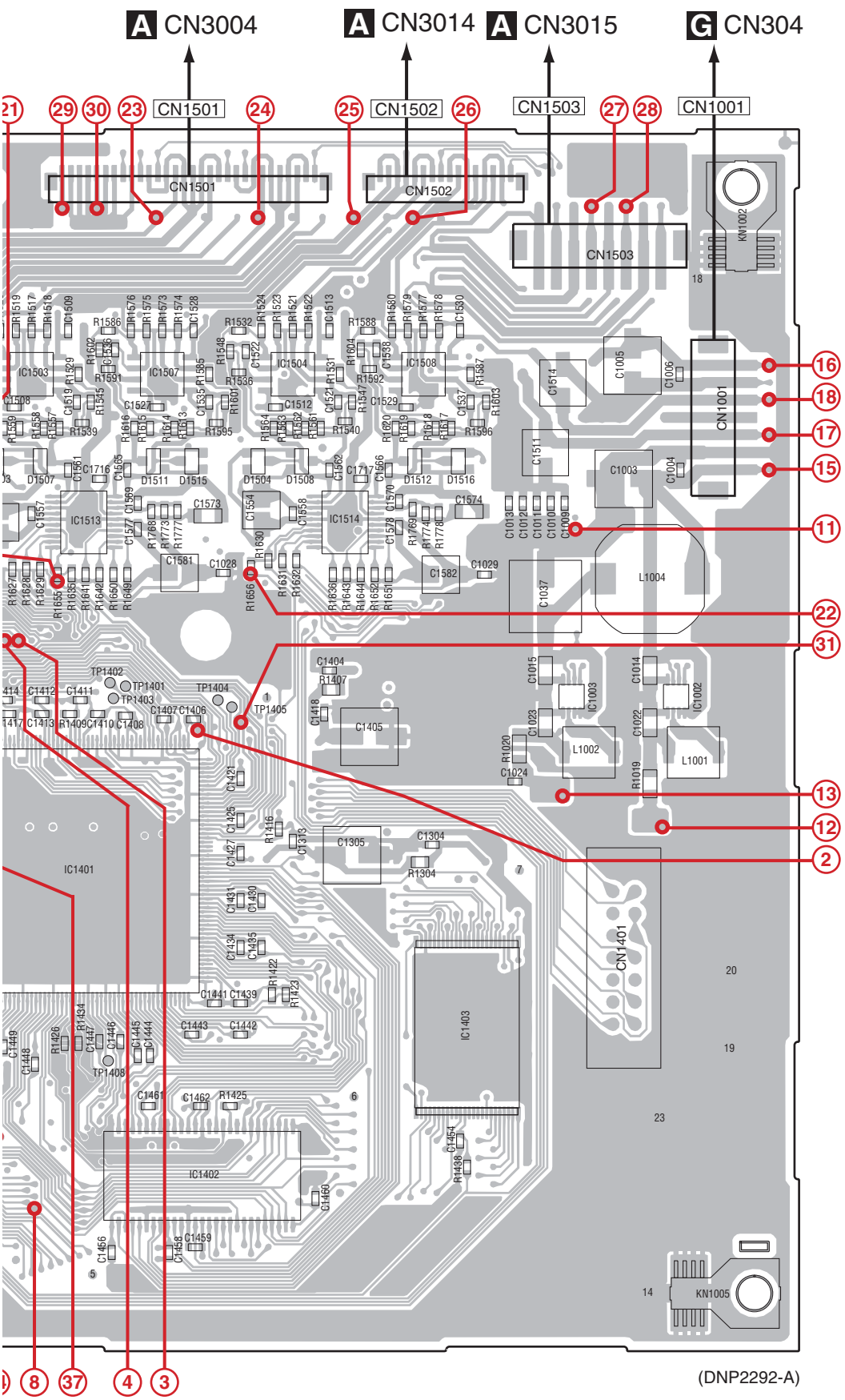
A B C

11.2 MAIN ASSY

SIDE A



SIDE A



IC1501 IC1502 IC1503 IC1508
IC1505 IC1506 IC1507
IC1504

IC1511 IC1512 IC1513
IC1514

IC1703
IC1003 IC1002
Q1401

IC1702

IC1401

IC1403
Q1301
IC1204
IC1202
IC1701 Q1101
Q1202
IC1201

IC1305
IC1203
IC1402

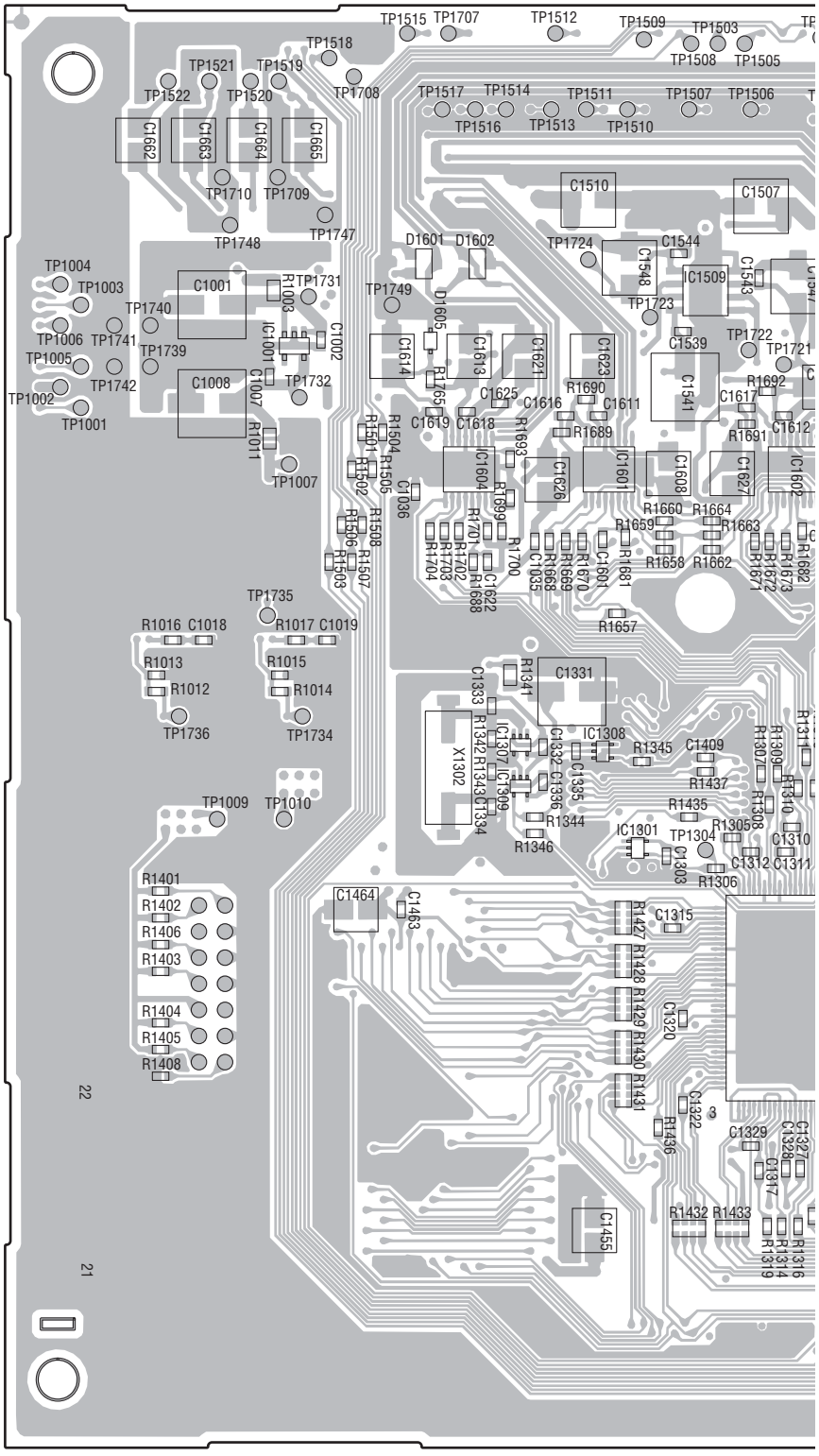
(DNP2292-A)

NOTE: The encircled numbers denote measuring point.

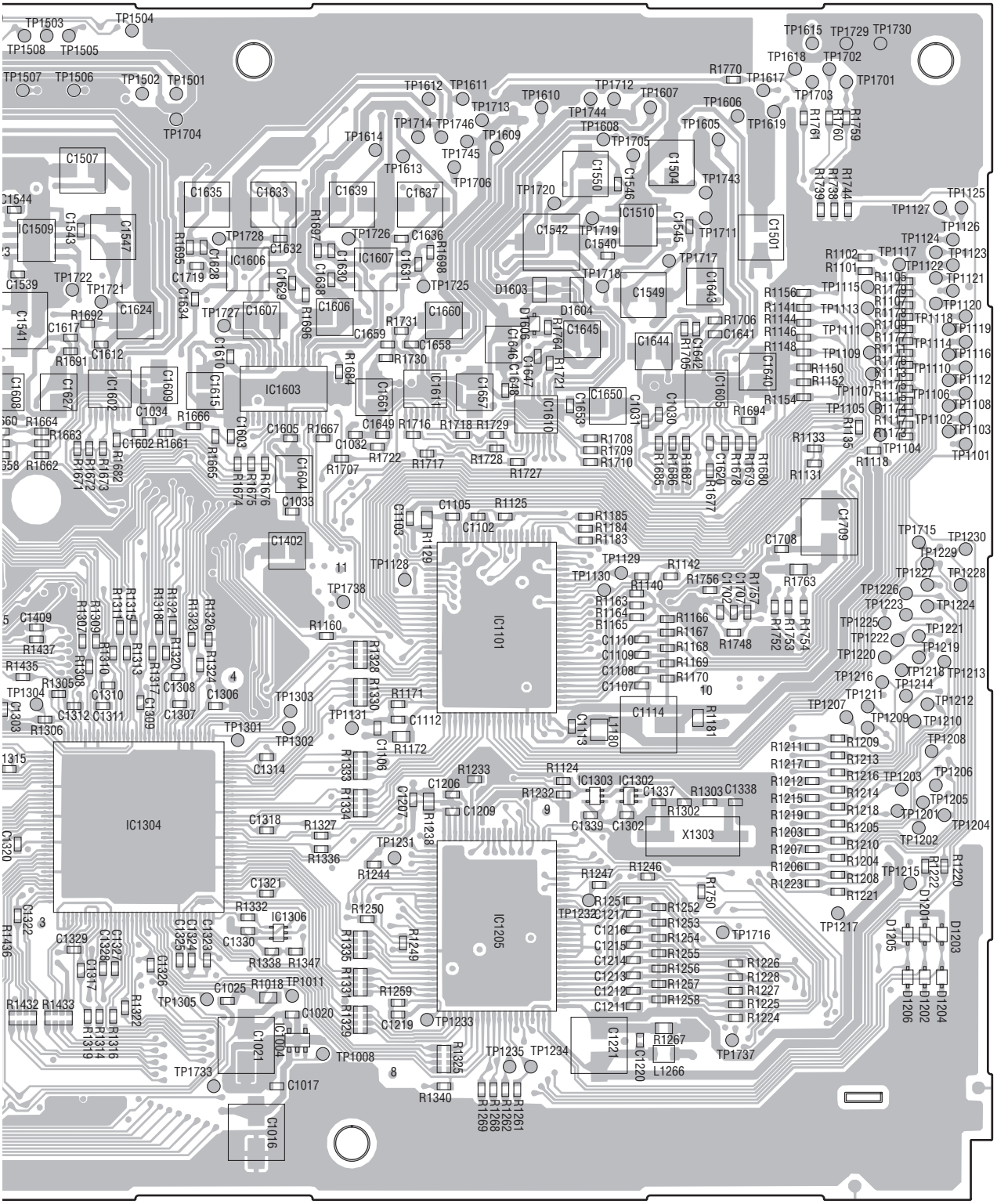
D

SIDE B

D MAIN ASSY



SIDE B

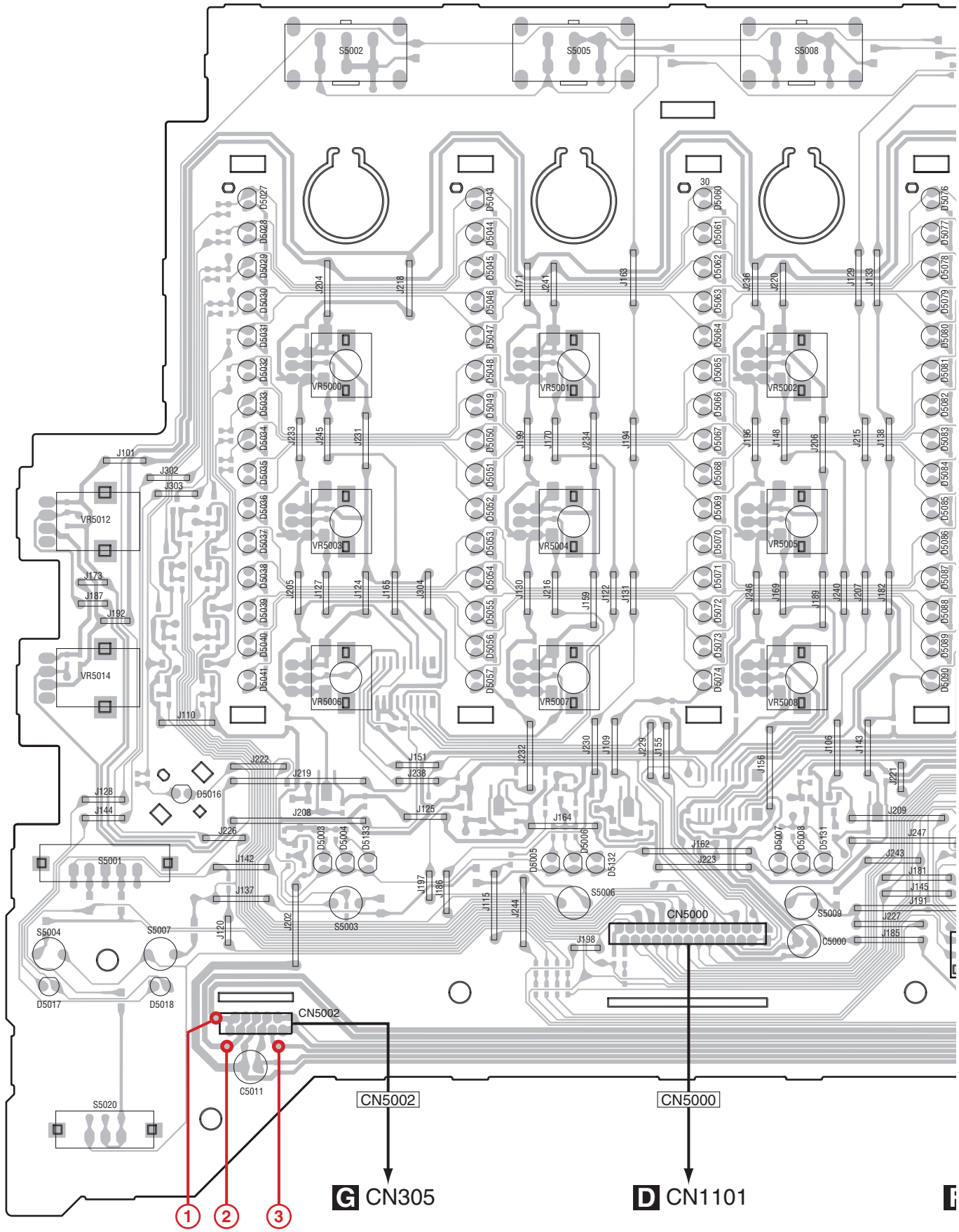


(DNP2292-A)

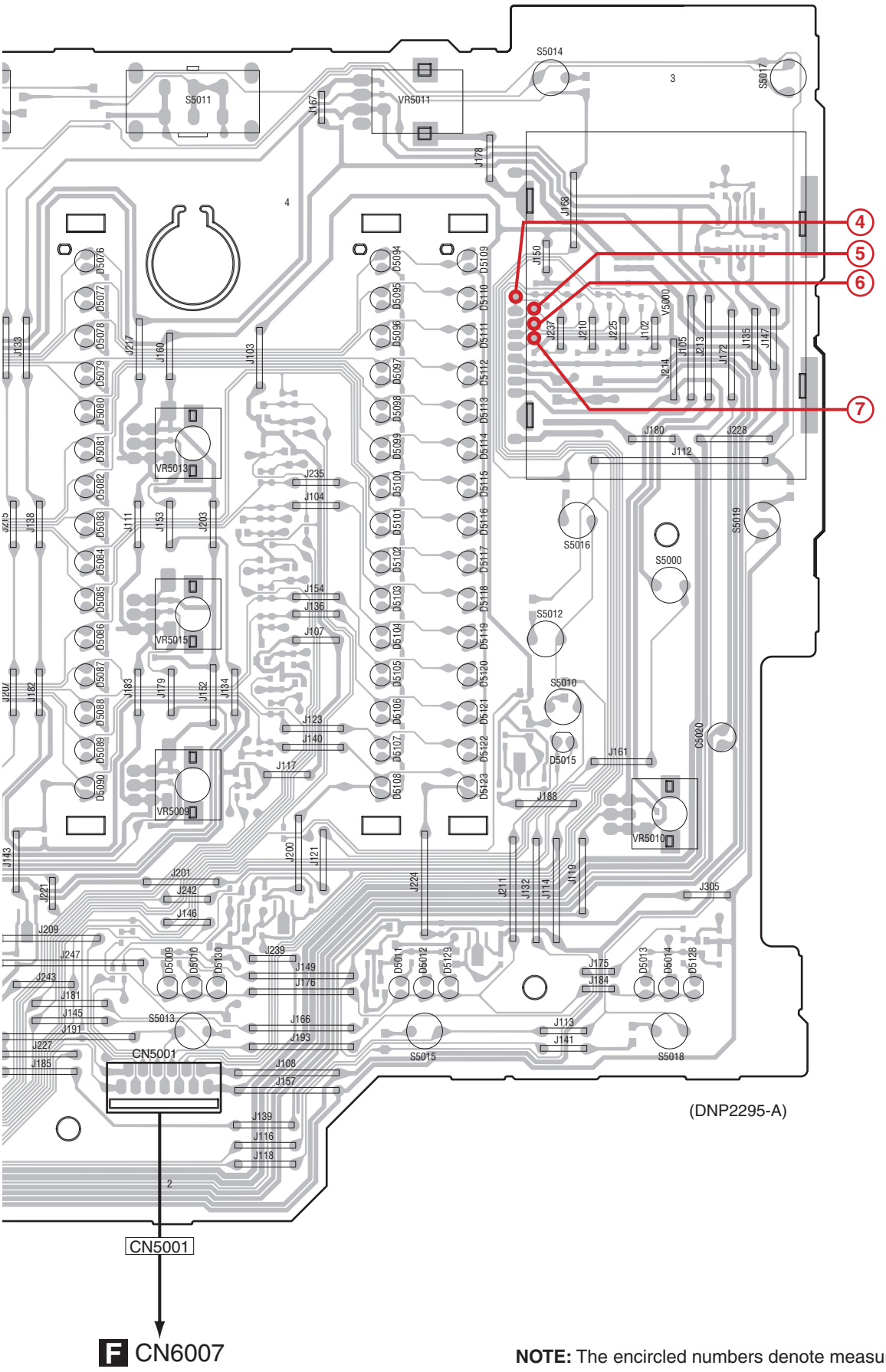
11.3 PANEL 1 ASSY

SIDE A

E PANEL 1 ASSY



SIDE A



VR5011

VR5000 - VR5002 VR5013

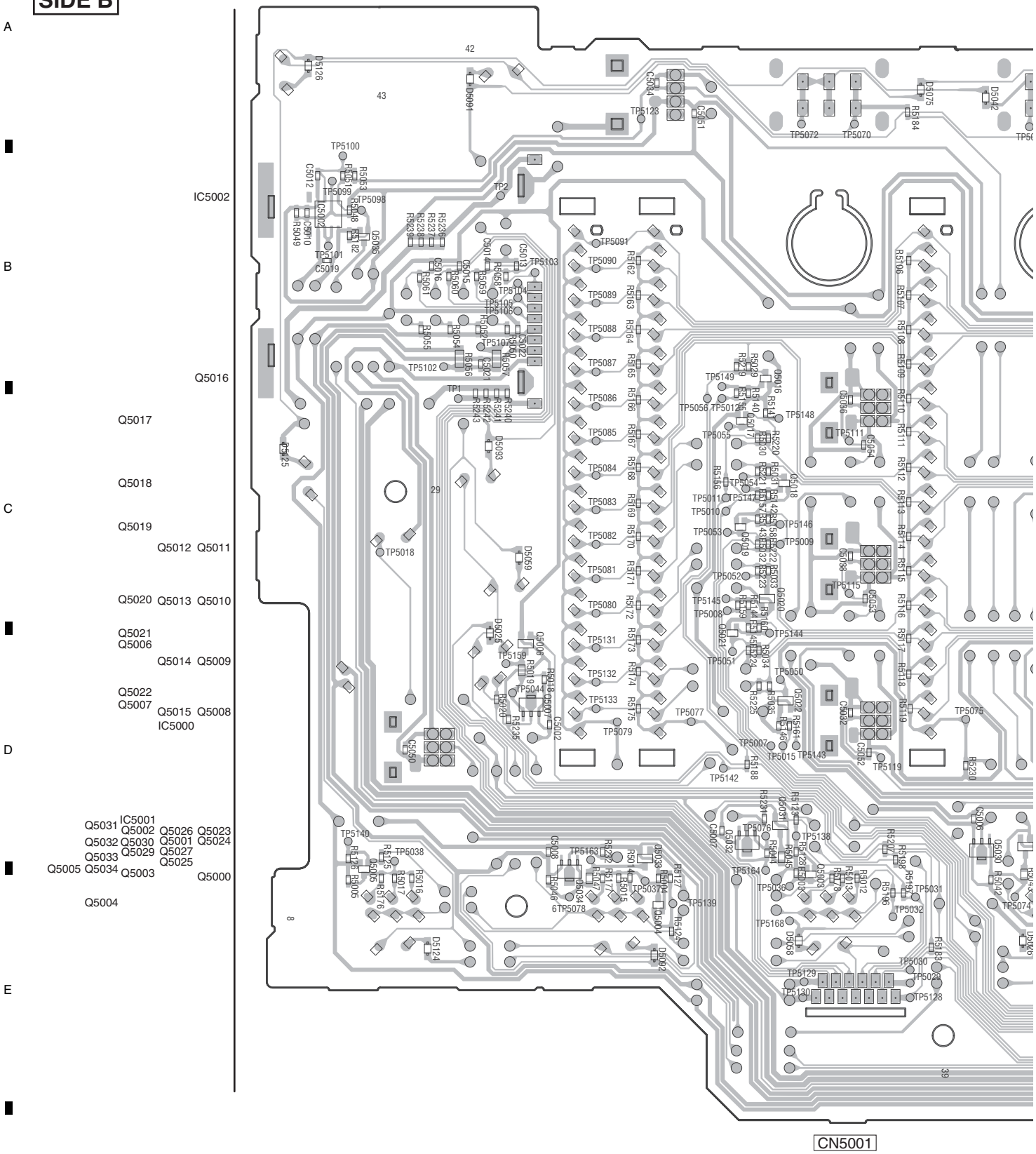
VR5012 VR5003 - VR5005 VR5015

VR5014 VR5006 - VR5009

VR5010

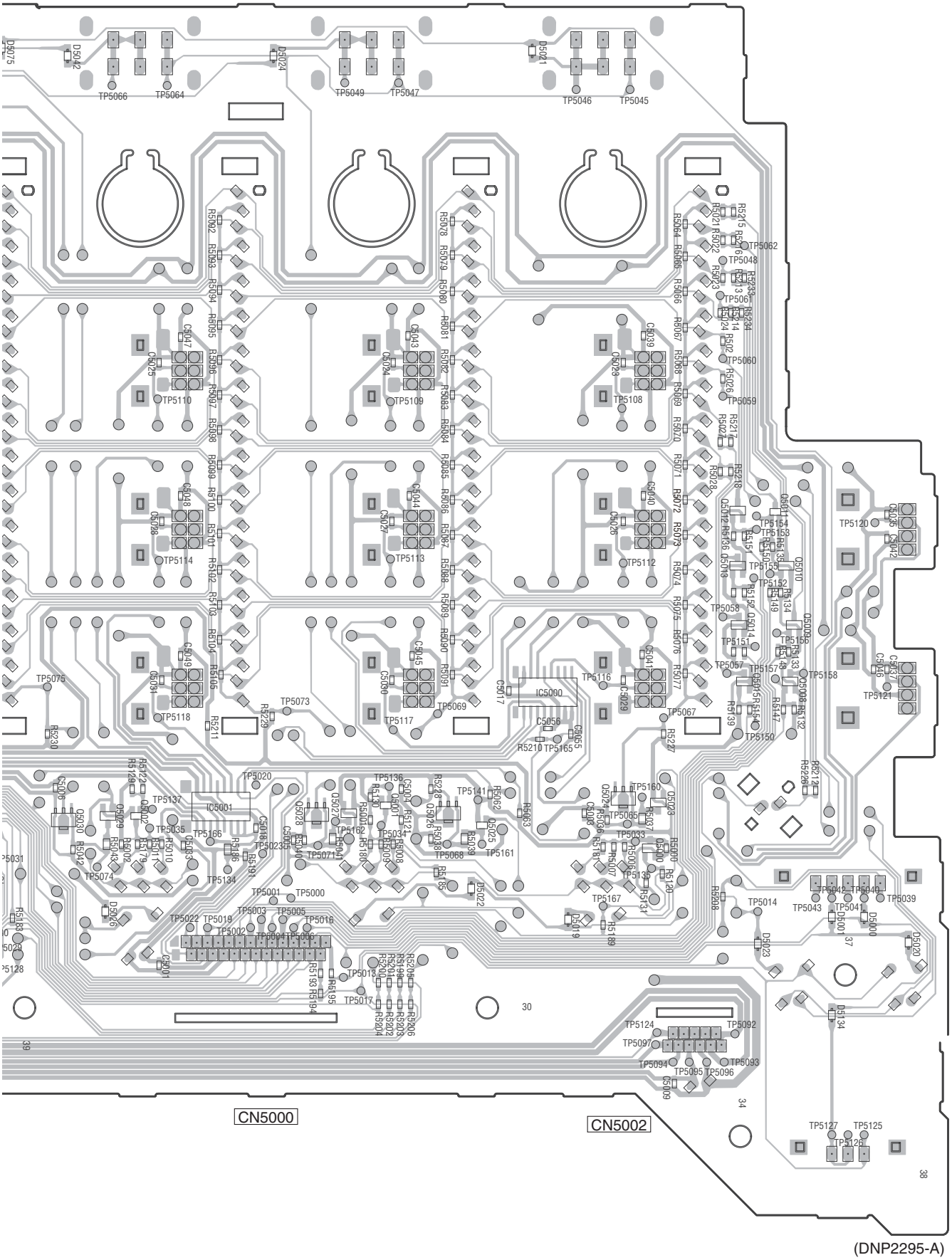
NOTE: The encircled numbers denote measuring point.

SIDE B


IC5002
Q5016
Q5017
Q5018
Q5019
Q5012 Q5011
Q5020 Q5013 Q5010
Q5021
Q5006
Q5014 Q5009
Q5022
Q5007
Q5015 Q5008
IC5000
Q5031 IC5001
Q5002 Q5026 Q5023
Q5032 Q5030 Q5001 Q5024
Q5033 Q5029 Q5027
Q5025
Q5005 Q5034 Q5003
Q5000
Q5004
CN5001

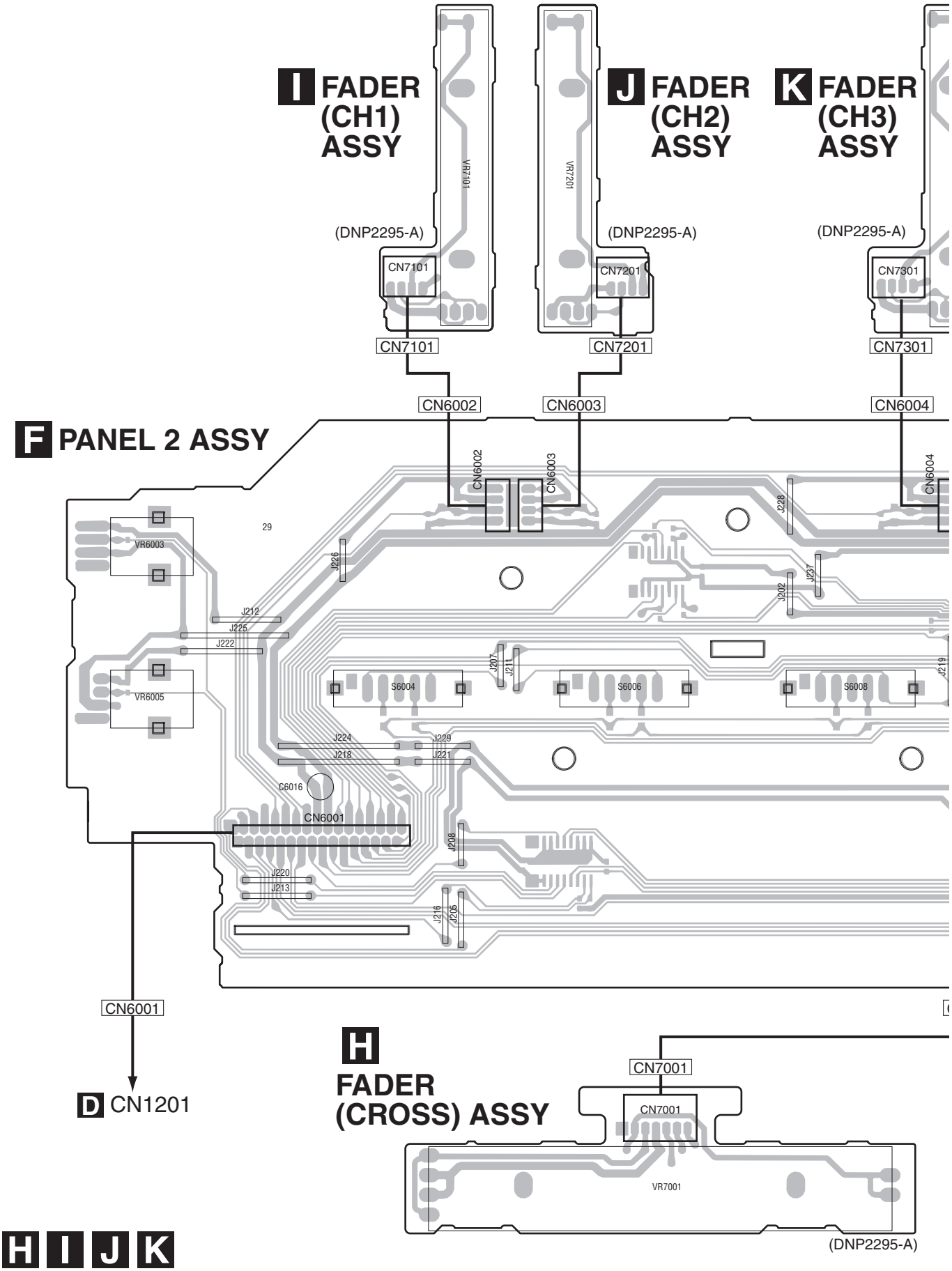
E PANEL 1 ASSY

SIDE B

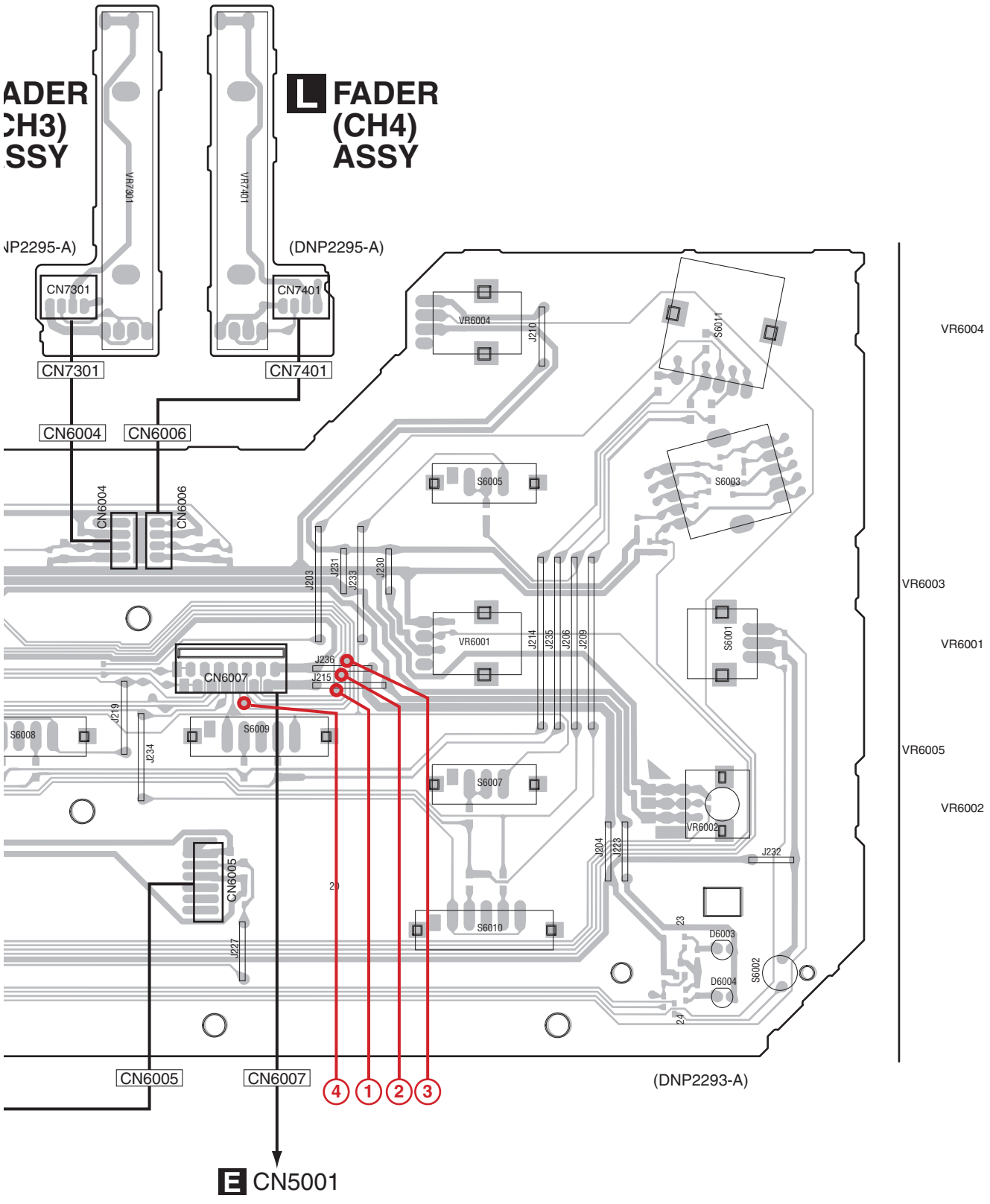


11.4 PANEL 2, FADER (CROSS), (CH1), (CH2), (CH3) and (CH4) ASSYS

SIDE A



SIDE A



NOTE: The encircled numbers denote measuring point.

SIDE B

L FADER (CH4) ASSY

(DNP2295-A)

CN7401

K FADER (CH3) ASSY

(DNP2295-A)

CN7301

F PANEL 2 ASSY

CN6006 CN6004

CN6007

CN6005

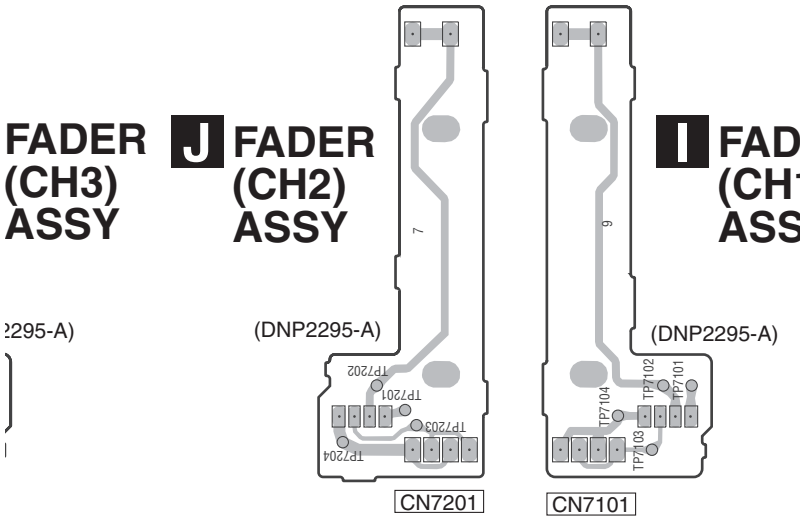
SIDE B

A

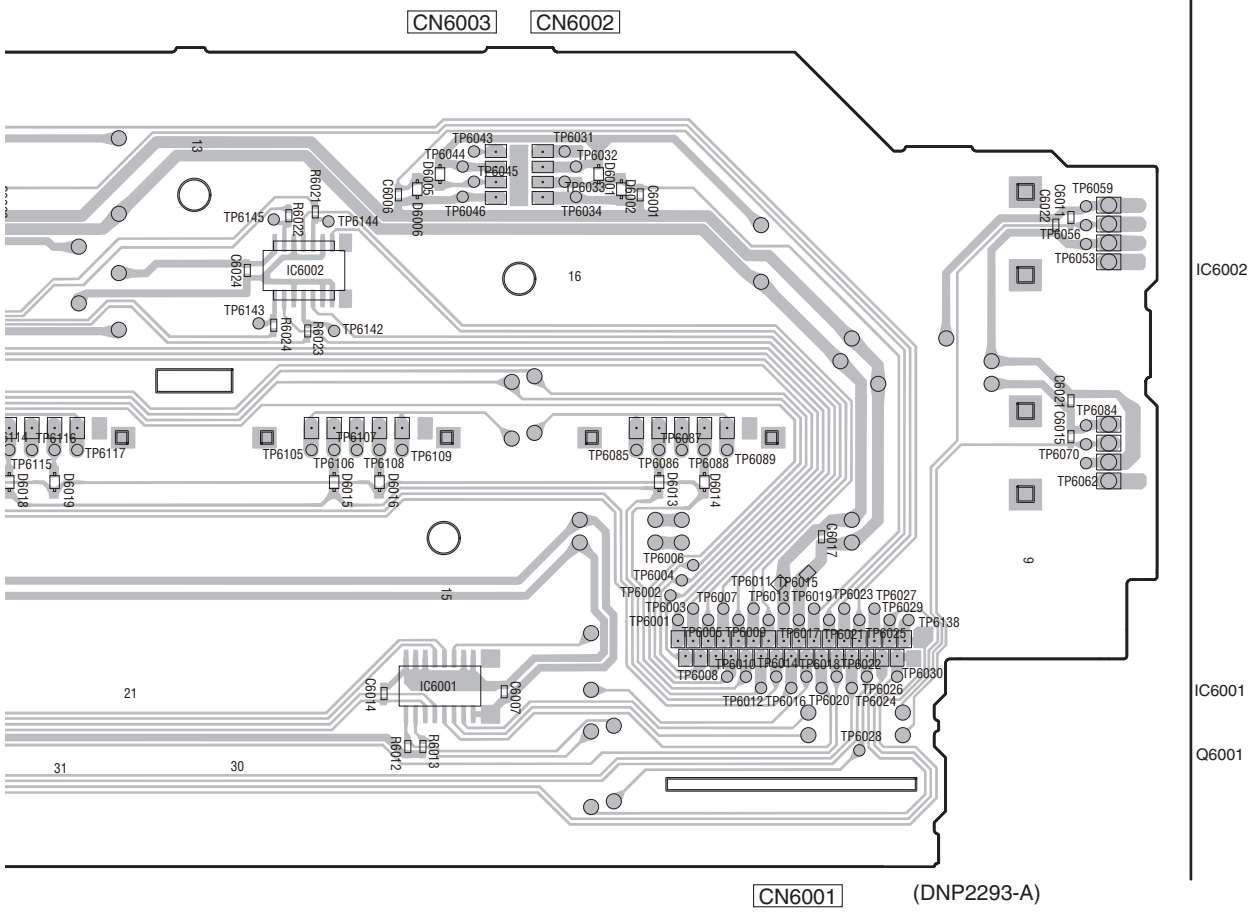
FADER (CH3) ASSY

J FADER (CH2) ASSY

I FADER (CH1) ASSY



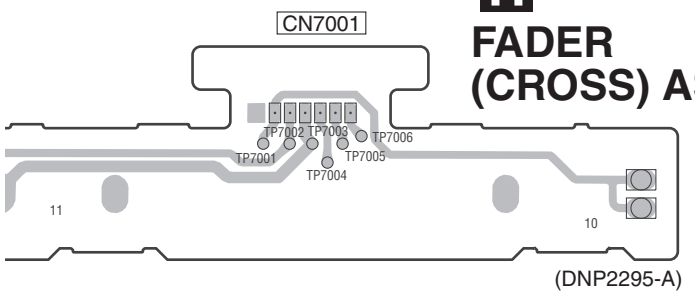
B



C

D

H FADER (CROSS) ASSY

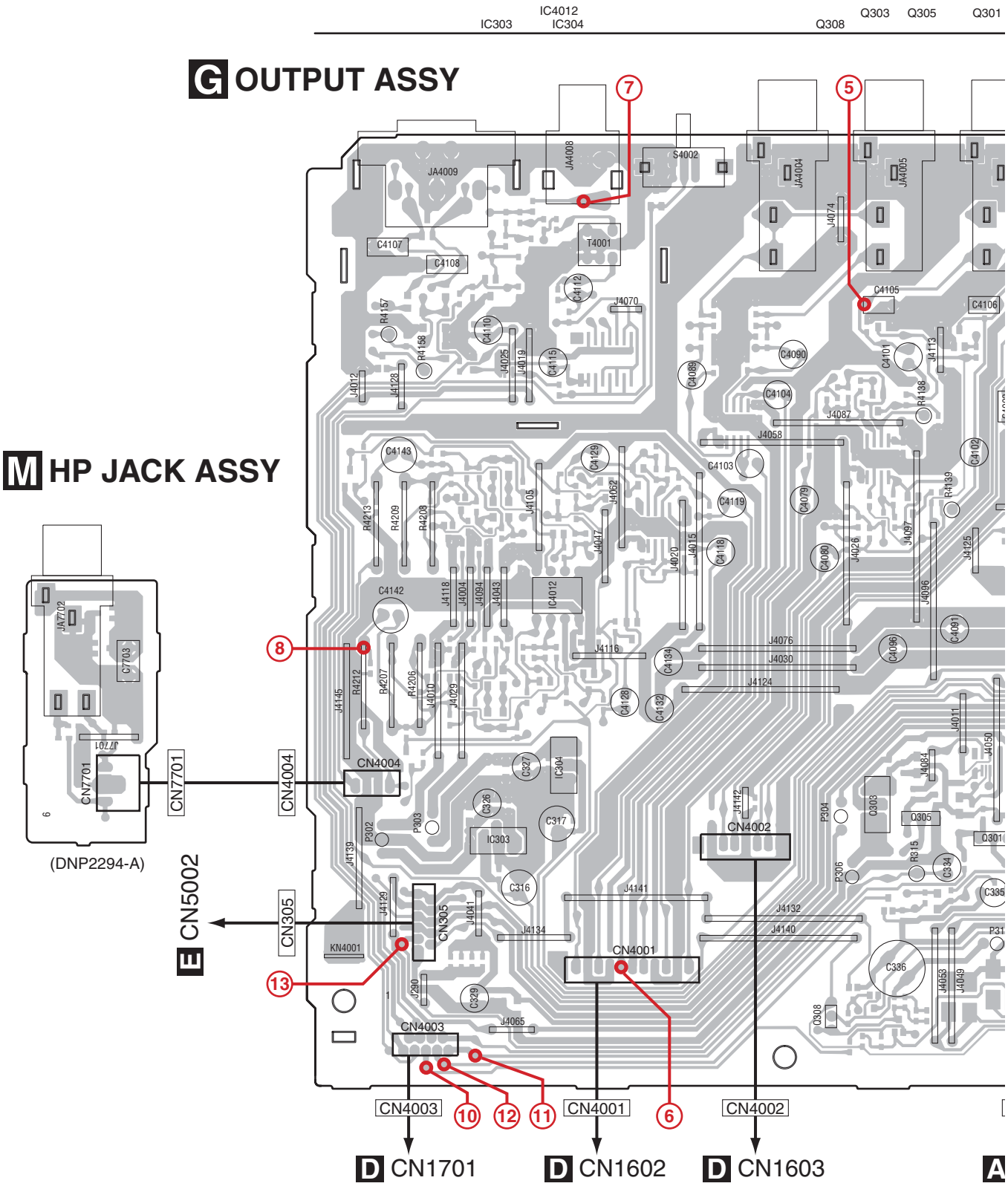


E

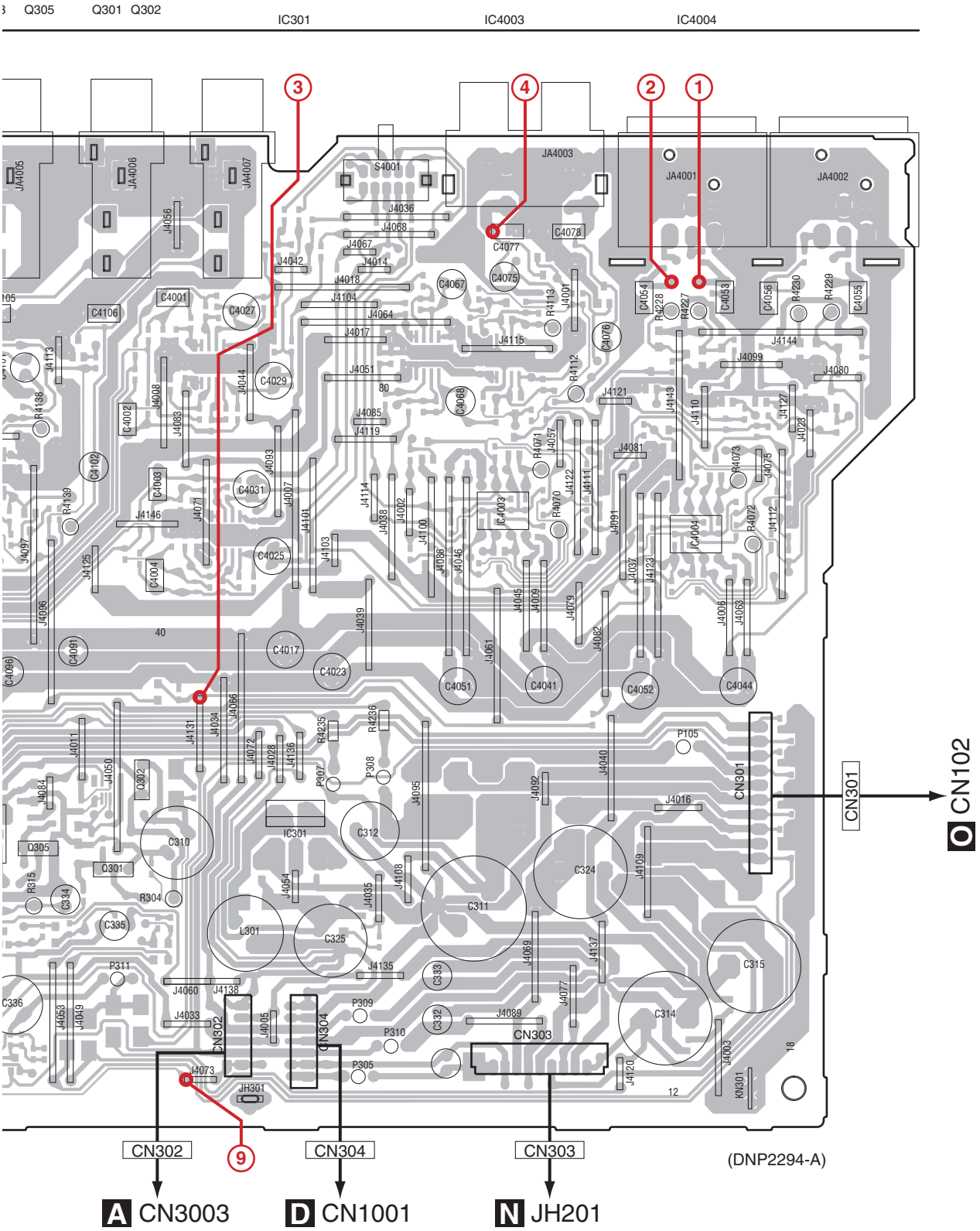
F

11.5 OUTPUT and HP JACK ASSYS

SIDE A



SIDE A



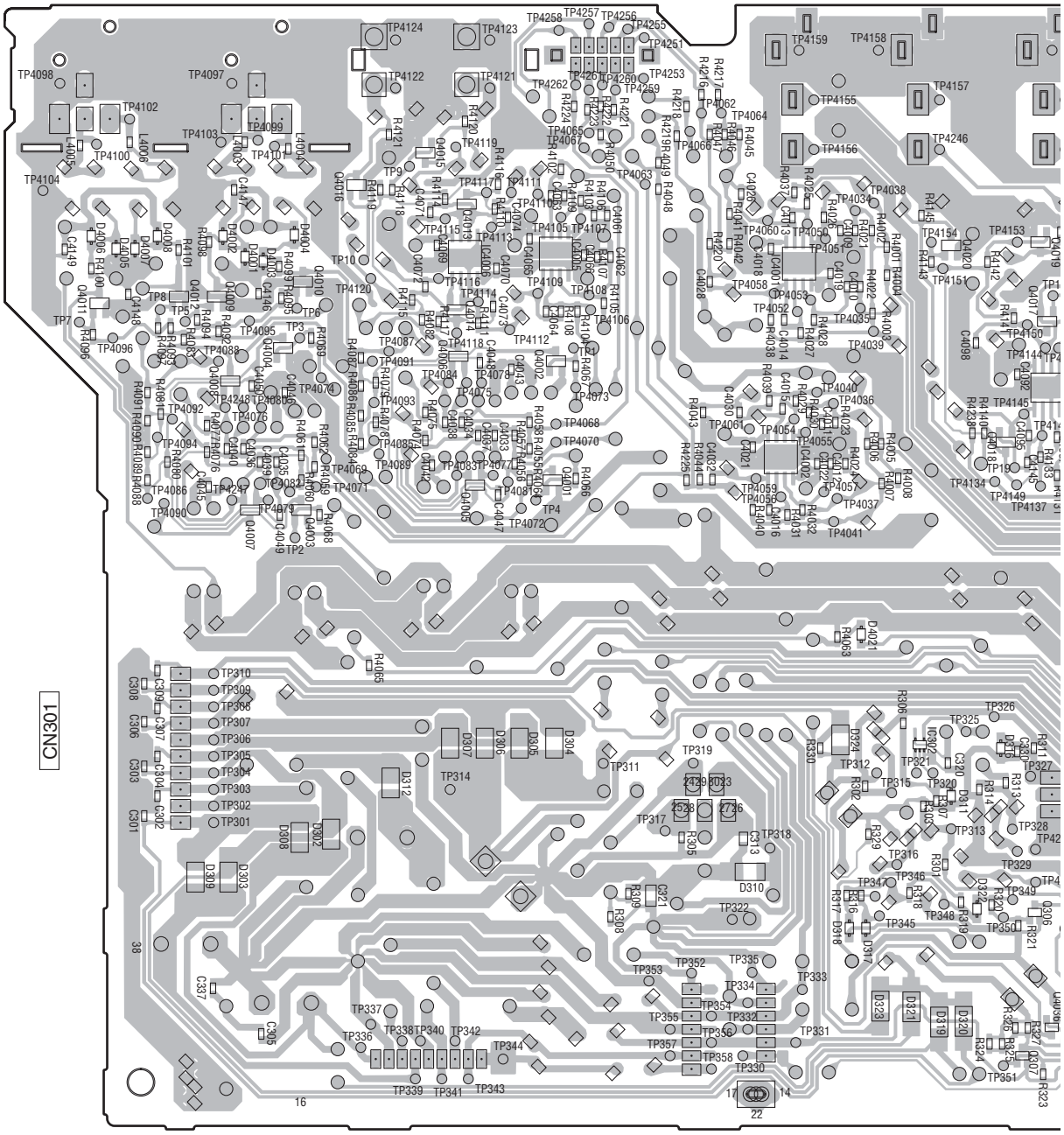
NOTE: The encircled numbers denote measuring point.

SIDE B

A

Q4011 Q4012 Q4009 Q4016 Q4016 Q4015 IC4006 IC4001 Q4020 Q4019
Q4014 Q4017
Q4008 Q4004 Q4118 Q4002 IC4002 Q4018 IC4007
Q4007 Q4003 Q4005 Q4001 IC302 Q307 Q403

G OUTPUT ASSY



B C D E F

SIDE B

A

B

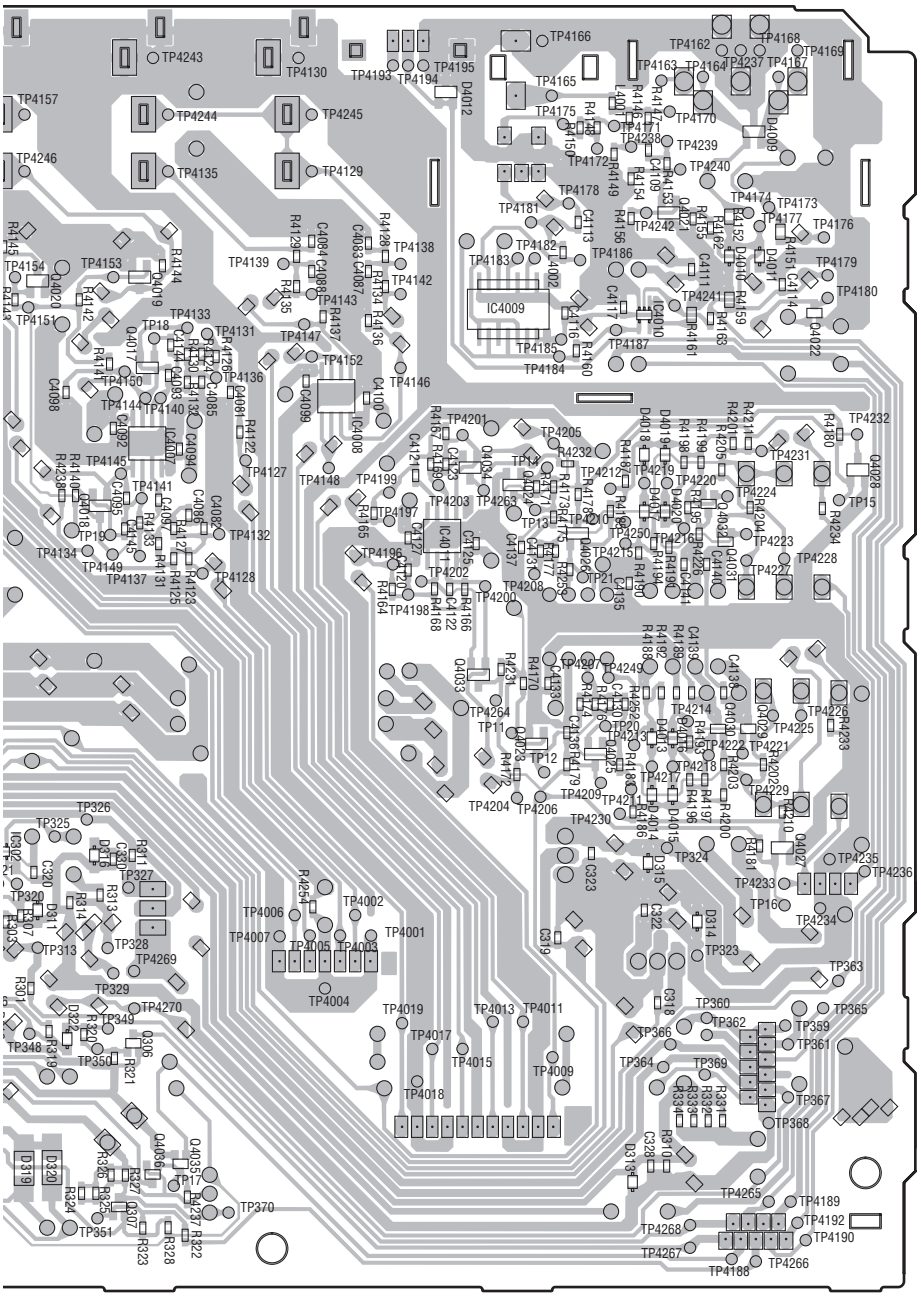
C

D

E

F

IC4009 Q4021
Q4034 Q4024 IC4010 Q4022 Q4028
Q4020 Q4019 Q4026 Q4032
Q4017 IC4008 IC4011 Q4033 Q4031
Q4018 IC4007 Q4023 Q4025 Q4030 Q4029
02 Q307 Q4036 Q4035 Q4027

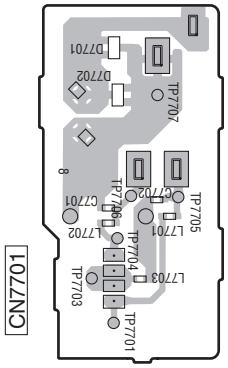


CN4002 CN4001 CN4003 (DNP2294-A)

CN4004

CN305

M HP JACK ASSY



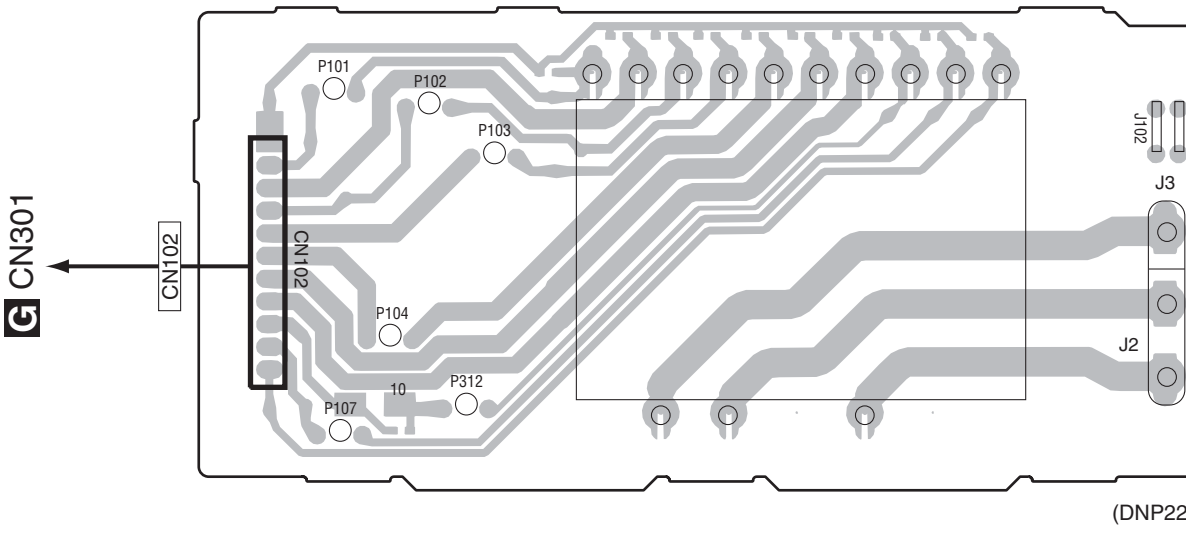
CN7701

(DNP2294-A)

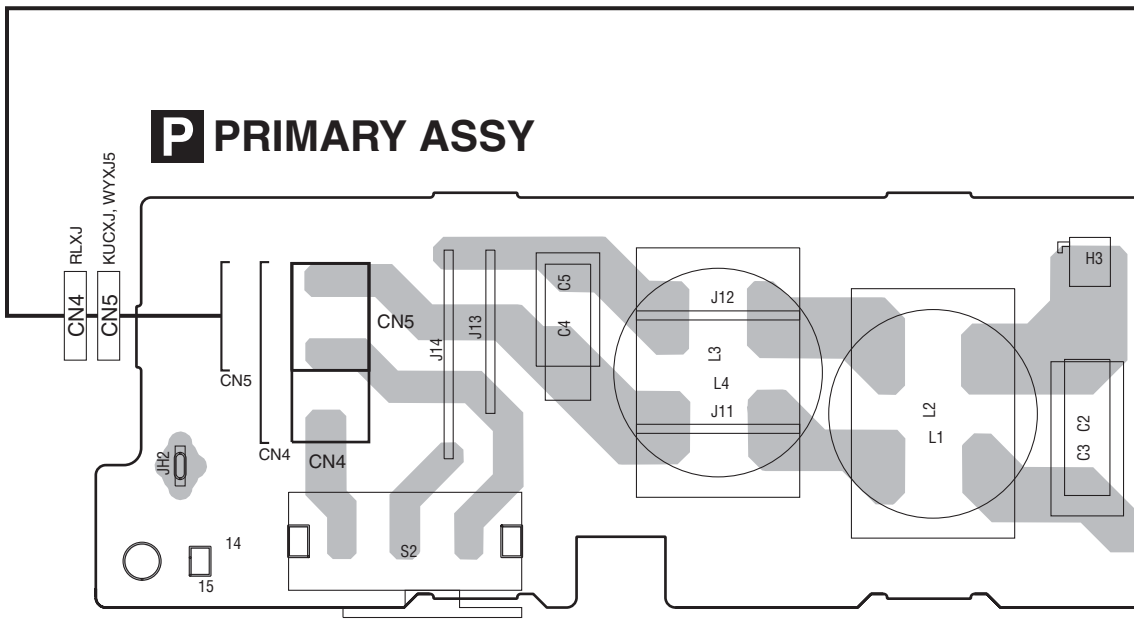
11.6 REG, TRANS and PRIMARY ASSYS

SIDE A

O TRANS ASSY

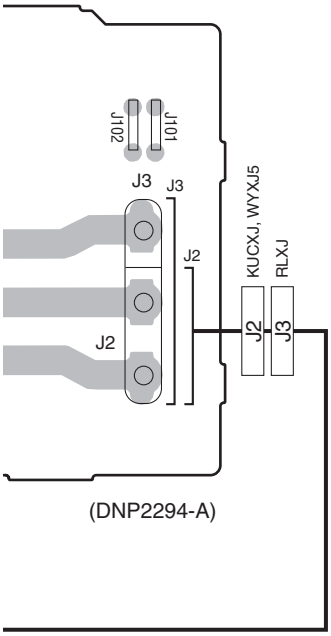


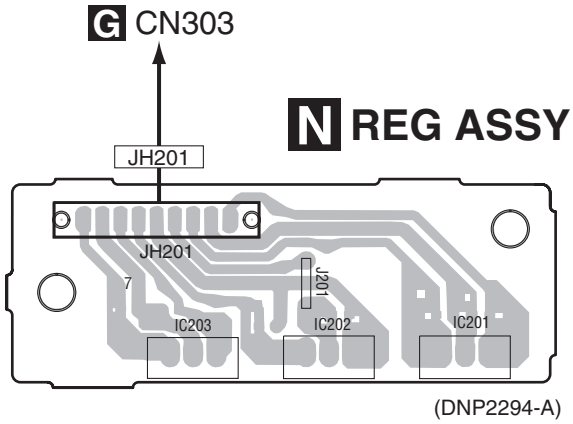
P PRIMARY ASSY

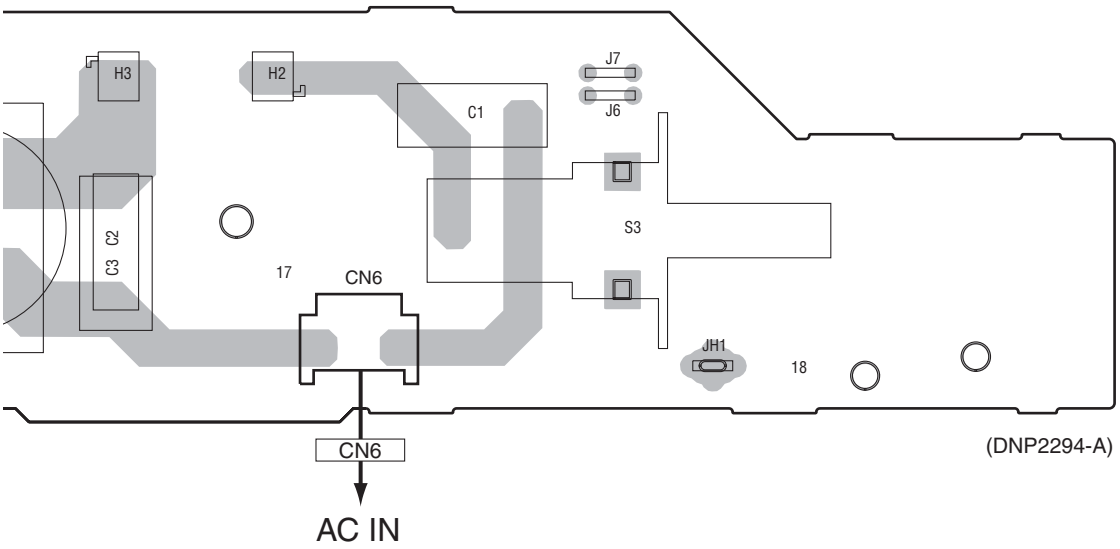


O P

SIDE A


J102
J101
J3
J3
J2
J2
KUCXJ, WYXJ5
RLXJ
J2
J3
(DNP2294-A)


G CN303
N REG ASSY
JH201
JH201
7
J201
IC203
IC202
IC201
(DNP2294-A)


H3
H2
C1
J7
J6
C2
C3
S3
17
CN6
JH1
18
CN6
AC IN
(DNP2294-A)

SIDE B

A

B

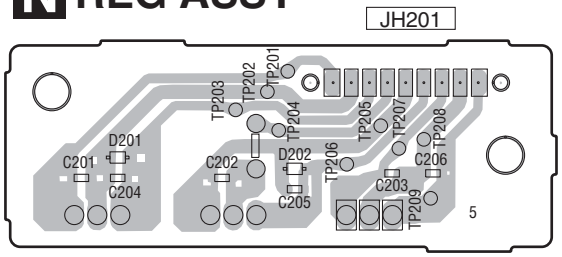
C

D

E

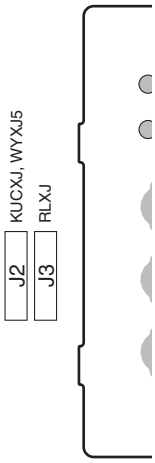
F

N REG ASSY

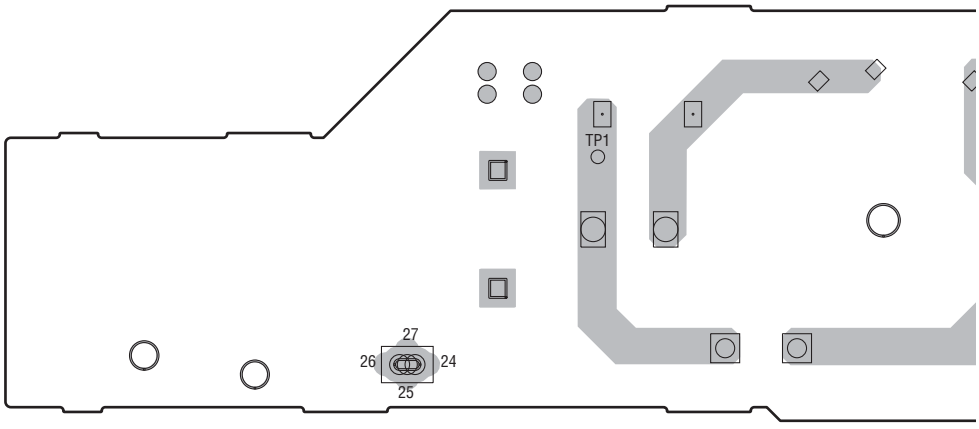


(DNP2294-A)

O



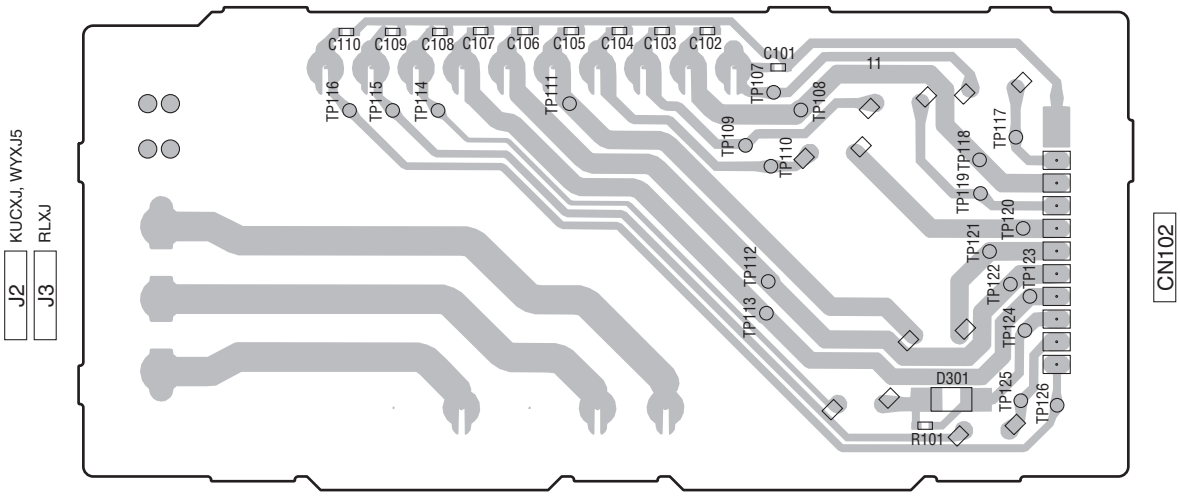
P PRIMARY ASSY



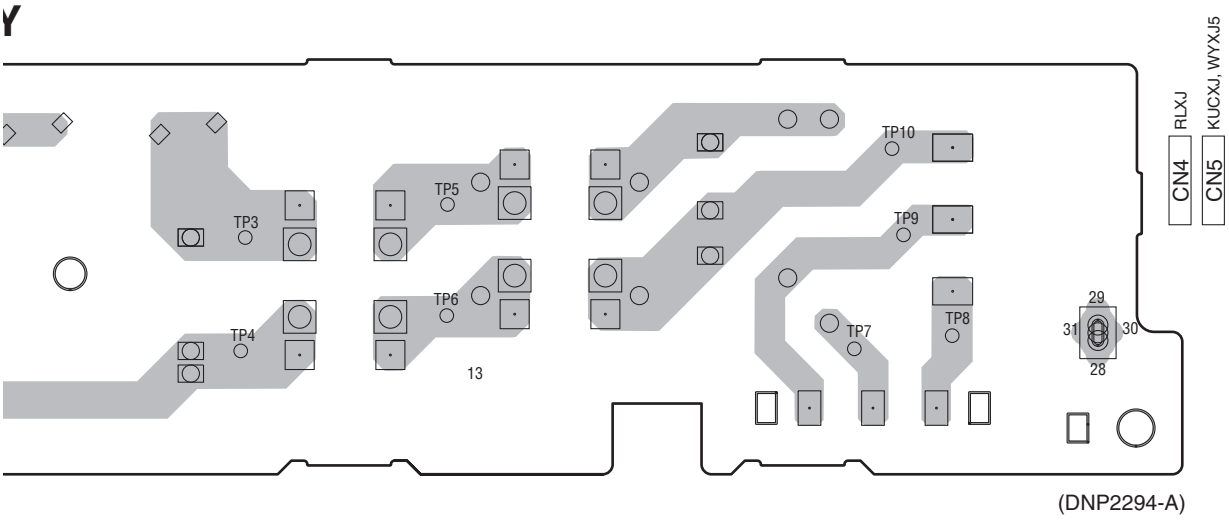
N O P

SIDE B

O TRANS ASSY



(DNP2294-A)



(DNP2294-A)

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

560 Ω → 56 x 10^1 → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 x 10^3 → 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).

5.62k Ω → 562 x 10^1 → 5621 ..... RN1/4PC 5 6 2 1 F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	DJM-700-S /KUCXJ	DJM-700-S /WYXJ5	DJM-700-S /RLXJ	DJM-700-K /KUCXJ	DJM-700-K /WYXJ5	DJM-700-K /RLXJ
	1..MAIN ASSY	DWX2674	DWX2674	DWX2674	DWX2674	DWX2674	DWX2674
NSP	1..INPL ASSY	DWM2309	DWM2309	DWM2309	DWM2309	DWM2309	DWM2309
	2..INPUT ASSY	DWX2675	DWX2675	DWX2675	DWX2675	DWX2675	DWX2675
	2..PANEL 2 ASSY	DWX2678	DWX2678	DWX2678	DWX2678	DWX2678	DWX2678
	2..MIC1 JACK ASSY	DWX2685	DWX2685	DWX2685	DWX2685	DWX2685	DWX2685
	2..MIC VR ASSY	DWX2686	DWX2686	DWX2686	DWX2686	DWX2686	DWX2686
NSP	1..OUPW ASSY	DWM2310	DWM2310	DWM2315	DWM2310	DWM2310	DWM2315
	2..OUTPUT ASSY	DWX2676	DWX2676	DWX2676	DWX2676	DWX2676	DWX2676
⚠	2..PRIMARY ASSY	DWX2687	DWX2687	DWX2692	DWX2687	DWX2687	DWX2692
	2..TRANS ASSY	DWX2688	DWX2688	DWX2757	DWX2688	DWX2688	DWX2757
	2..REG ASSY	DWX2689	DWX2689	DWX2689	DWX2689	DWX2689	DWX2689
	2..HP JACK ASSY	DWX2690	DWX2690	DWX2690	DWX2690	DWX2690	DWX2690
NSP	1..PANL ASSY	DWM2311	DWM2311	DWM2311	DWM2311	DWM2311	DWM2311
	2..PANEL 1 ASSY	DWX2677	DWX2677	DWX2677	DWX2677	DWX2677	DWX2677
	2..FADER (CROSS) ASSY	DWX2680	DWX2680	DWX2680	DWX2680	DWX2680	DWX2680
	2..FADER (CH1) ASSY	DWX2681	DWX2681	DWX2681	DWX2681	DWX2681	DWX2681
	2..FADER (CH2) ASSY	DWX2682	DWX2682	DWX2682	DWX2682	DWX2682	DWX2682
	2..FADER (CH3) ASSY	DWX2683	DWX2683	DWX2683	DWX2683	DWX2683	DWX2683
	2..FADER (CH4) ASSY	DWX2684	DWX2684	DWX2684	DWX2684	DWX2684	DWX2684

■ CONTRAST OF PCB ASSEMBLIES

O TRANS ASSY

DWX2688 and DWX2757 are constructed the same except for the following :

Mark	Symbol and Description	DWX2688	DWX2757
⚠	J2 Connector Assy	DKP3785	Not used
⚠	J3 Connector Assy	Not used	DKP3786

P PRIMARY ASSY

DWX2687 and DWX2692 are constructed the same except for the following :

Mark	Symbol and Description	DWX2687	DWX2692
⚠	S2 Voltage Selector	Not used	XKX3005
	CN4 3P VH Connector	Not used	B3P5-VH
	CN5 2P VH Connector	B2P3-VH	Not used

■ PCB PARTS LIST FOR DJM-700-S/KUCXJ UNLESS OTHER WISE NOTED

A INPUT ASSY

SEMICONDUCTORS

Mark No.	Description	Part No.
IC3001,3002,3007,3008		NJM2121MD
IC3003,3006,3009,3012		NJM4580MD
IC3013,3014,3019,3020		NJM2121MD
IC3015,3018,3021		NJM4580MD
IC3024-3028		RNB4580F
Q3001-3003,3008-3010		RT1N241M
Q3004-3007,3011-3014		2SK209
Q3015,3020		RT1N241M
Q3016-3019,3021,3022		2SK209
Q3023,3024,3027,3028		2SC5938A
Q3025,3026		2SK209
D3001,3002		UDZS5R6(B)
D3003-3008		1SS355

MISCELLANEOUS

Mark No.	Description	Part No.
L3001-3004	FERRITE CORE	VTF1093
JA3001,3005,3007,3008	JACK	DKB1083
JA3002,3006	JACK	RKN1004
JA3010	JACK	DKB1083
JA3012	HP JACK	DKN1452
VR3001-3004	POTENTIOMETER	DCS1098
CN3003	CONNECTOR	S6B-PH
CN3004	30P CONNECTOR	VKN1290
CN3011,3013	CONNECTOR	CKS2643
CN3014	16P CONNECTOR	VKN1276

RESISTORS

Mark No.	Description	Part No.
R3005-3008,3063,3064		RN1/16SE1001D
R3011-3014,3077,3078		RN1/16SE1102D
R3015-3018,3083,3084		RN1/16SE1502D
R3027,3028,3095,3096		RN1/16SE3002D
R3029,3030,3097,3098		RN1/16SE2002D
R3031,3032,3099,3100		RN1/16SE1303D
R3067,3068,3073,3074		RN1/16SE1501D
R3071,3072,3137,3138		RN1/16SE2401D
R3081,3082,3145,3146		RN1/16SE1800D
R3085,3086,3149,3150		RN1/16SE1002D
R3131,3132,3195		RN1/16SE1001D
R3135,3136,3139,3140		RN1/16SE1501D
R3143,3144,3207,3208		RN1/16SE1102D
R3147,3148,3211,3212		RN1/16SE1502D
R3159,3160,3223,3224		RN1/16SE3002D
R3161,3162,3225,3226		RN1/16SE2002D
R3163,3164,3227,3228		RN1/16SE1303D
R3199,3200,3203,3204		RN1/16SE1501D
R3201,3202		RN1/16SE2401D
R3209,3210		RN1/16SE1800D
R3213,3214		RN1/16SE1002D
R3257,3258,3262,3273		RS1/16S5101D
R3259,3263,3276,3281		RS1/16S4702D
R3260,3264,3278,3282		RS1/16S1303D
R3261,3266,3279,3283		RS1/16S4701D
R3265,3284		RS1/16S4301D
R3271,3272,3289,3290		RD1/2VM331J
R3274,3280		RS1/16S5101D
R3293,3295		RS1/16S2201D
R3294		RN1/16SE2201D
R3298,3299,3303		RS1/16S3302D
R3301,3302,3304		RN1/16SE2000D
R3305,3306,3309		RS1/16S1002D
R3307,3308,3310,3311		RS1/16S3301D
R3317,3319		RN1/16SE2200D
R3375-3380		RS1/10S0R0J
Other Resistors		RS1/16S###J

CAPACITORS

Mark No.	Description	Part No.
C3001,3006,3051,3054		CFTLA103J50
C3002-3005,3007-3010		CCSRCH101J50
C3015,3016,3018,3020		CKSRYB104K25
C3023-3028,3085-3090		CFTNA334J50
C3032,3033,3068,3069		CKSRYB104K25
C3047,3048,3055,3056		CCSRCH101J50
C3049,3050,3111,3112		CCSRCH221J50
C3059,3060,3117,3118		CCSRCH471J50
C3061,3062,3119,3120		CKSRYB223K25
C3063,3064,3121,3122		CCSRCH331J50
C3065,3066,3123,3124		CEHAT221M10
C3070,3071,3129,3130		CQMA752J50
C3073,3074,3131,3132		CEAL100M50
C3077,3078,3080,3082		CKSRYB104K25
C3094,3095,3126,3127		CKSRYB104K25
C3109,3110,3115,3116		CCSRCH101J50
C3135,3136,3138,3140		CKSRYB104K25
C3143-3148,3201-3206		CFTNA334J50
C3152,3153,3184,3185		CKSRYB104K25
C3167,3168,3173,3174		CCSRCH101J50
C3169,3170		CCSRCH221J50
C3175,3176		CCSRCH471J50
C3177,3178		CKSRYB223K25
C3179,3180,3272,3273		CCSRCH331J50
C3181,3182		CEHAT221M10
C3186,3187		CQMA752J50
C3189,3190,3269-3271		CEAL100M50
C3193,3194,3196,3198		CKSRYB104K25
C3210,3211,3232,3233		CKSRYB104K25
C3227,3249		CKSRYB472K50
C3228,3250		CKSRYB562K50
C3235,3236,3274,3278		CKSRYB104K25
C3239,3253		CCSRCH560J50
C3240,3254		CCSRCH270J50
C3241,3242,3255,3256		CKSRYB473K25
C3245,3246,3257,3258		CQMA472J50
C3247,3248,3259,3260		CEANP100M35
C3251,3291		CKSRYB152K50
C3252,3290		CKSRYB182K50
C3261,3262		CQMA103J50
C3263,3264,3267,3276		CCSRCH102J50
C3265,3266,3268		CCSRCH4R0C50
C3275		CCSRCH331J50
C3277,3279		CCSRCH102J50
C3280,3281,3285,3286		CKSRYB104K25
C3282,3283		CEALNP220M16
C3288,3289		CEAL100M50
C3298,3299		CEHAT101M25
C3300-3305		CCSRCH181J50
C3306-3309		CKSRYB334K10

Mark	No.	Description	Part No.
B		**MIC1 JACK ASSY**	
		MISCELLANEOUS	
A	JA7501	CONNECTOR	DKN1136
	CN7502	PLUG	CKS3153
C		**MIC VR ASSY**	
		MISCELLANEOUS	
	VR7601,7602	POTENTIOMETER	DCS1099
	CN7601	PLUG	CKS3153
B			
D		**MAIN ASSY**	
		SEMICONDUCTORS	
	⚠ IC1001		S-1200B33-M5
	⚠ IC1002		BD9109FVM
	⚠ IC1003		BD9106FVM
	⚠ IC1004		S-1200B25-M5
	IC1101		DYW1761
	IC1204,1301,1303,1306		TC7SH08FUS1
	IC1205		DYW1760
	IC1302,1307		TC7SHU04FUS1
C	IC1304		XC3S50-4TQG144C
	IC1305		BU4230G
	IC1308,1309		TC7SH08FUS1
	IC1401		D610A003BPYPA225
	IC1402		K4S641632K-UC75
	IC1501-1508		NJM4580MD
	IC1509,1510		RNB4580F
	IC1511-1514		WM8786GEDS/V
	IC1601,1602,1605,1611		AK4387ET
	IC1603		PCM1738EG-3
	IC1604,1610		AK5358AET
D	IC1606,1607		NJM5532MD
	IC1701		TC7S04FU
	IC1702		AD1895AYRS
	IC1703		AK4114VQ
	Q1101		2SC4154
	Q1202		RT1P241M
	Q1301		2SC3052
	Q1401		RT1N241M
	D1101-1106,1201-1206		1SS355
	D1401		SML-310DT
	D1501-1516,1601-1604		RB706D-40
E			
	D1605,1606		UDZS3R3(B)
		MISCELLANEOUS	
	L1001,1002	INDUCTOR	BTH1112
	L1004	INDUCTOR (470 uH)	DTL1123
	L1180,1266	CHIP COIL	LCTAW330J2520
	F1401	COIL	RTF1189
	KN1002-1005	EARTH METAL FITTING	VNF1109
	X1302	CRYSTAL RESONATOR (24 MHz)	ASS7025
	X1303	CRYSTAL RESONATOR (20 MHz)	ASS7023
	CN1001,1603	CONNECTOR	AKM1278
F	CN1101	27P CONNECTOR	VKN1431
	CN1102,1202	CONNECTOR	VKN1945
	CN1201	31P CONNECTOR	VKN1435
	CN1501	30P CONNECTOR	VKN1434
	CN1502	16P CONNECTOR	VKN1420
	CN1503	CONNECTOR	AKM1279
	CN1602	CONNECTOR	AKM1282
	CN1701	9P CONNECTOR	VKN1413
		RESISTORS	
	R1003,1011,1018,1129		RS1/10S0R0J
	R1014		RS1/16S1002D
	R1015		RS1/16S2002D
	R1019,1020		RS1/8S0R0J
	R1172,1181,1238,1260		RS1/10S0R0J
	R1267,1301,1304,1341		RS1/10S0R0J
	R1325,1328-1331		RAB4C220J
	R1333-1335,1427-1433		RAB4C220J
	R1407,1749,1763		RS1/10S0R0J
	R1509-1524,1541-1548		RN1/16SE3301D
	R1525-1532,1581-1588		RN1/16SE2401D
	R1549,1552,1553,1556		RN1/16SE1201D
	R1550,1551,1554,1555		RN1/16SE3601D
	R1557,1560,1561,1564		RN1/16SE1201D
	R1558,1559,1562,1563		RN1/16SE3601D
	R1565-1580,1597-1604		RN1/16SE3301D
	R1605,1608,1609,1612		RN1/16SE1201D
	R1606,1607,1610,1611		RN1/16SE3601D
	R1613,1616,1617,1620		RN1/16SE1201D
	R1614,1615,1618,1619		RN1/16SE3601D
	R1683		RN1/16SE1602D
	R1695-1698		RN1/16SE1201D
	R1755		RN1/16SE1802D
	Other Resistors		RS1/16S###J
		CAPACITORS	
	C1001,1003,1005,1008		CEVW101M10
	C1002,1004,1006,1007		CKSRYB104K25
	C1009-1013,1017,1020		CKSRYB104K25
	C1014,1015,1022,1023		CKSYB106K10
	C1016,1021,1104,1111		CEVW101M10
	C1018		CKSRYB331K50
	C1019		CCSRCH751J25
	C1024-1036,1103,1105		CKSRYB104K25
	C1037		CEVW331M6R3
	C1101,1107-1110,1205		CKSRYB103K50
	C1102,1206,1316		CKSRYF105Z10
	C1106,1112,1113		CKSRYB104K25
	C1114,1208,1218,1221		CEVW101M10
	C1201-1204,1207,1209		CKSRYB104K25
	C1210,1219,1220		CKSRYB104K25
	C1211-1215		CKSRYB471K50
	C1216,1217,1317,1319		CKSRYB103K50
	C1301,1305,1331,1405		CEVW101M10
	C1302-1304,1306-1315		CKSRYB104K25
	C1318,1320-1330,1332		CKSRYB104K25
	C1333,1337		CCSRCH180J50
	C1334,1338		CCSRCH150J50
	C1335,1336,1339,1401		CKSRYB104K25
	C1402,1455,1464		CEVW100M16
	C1403,1404,1406-1408		CKSRYB104K25

Mark No.	Description	Part No.
C1409,1454,1601,1602		CKSRYB103K50
C1410-1453,1456		CKSRYB104K25
C1458-1463,1502,1503		CKSRYB104K25
C1501,1504,1507,1510		CEVW100M25
C1505,1506,1508,1509		CKSRYB104K25
C1511,1514,1633,1635		CEVW100M25
C1512,1513,1523-1530		CKSRYB104K25
C1515-1522,1531-1538		CCSRCH101J50
C1539,1540,1543-1546		CKSRYB104K25
C1541,1542,1701,1709		CEVW101M10
C1547-1550		CCH1585
C1551-1554,1579-1582		CEVW100M16
C1555-1558,1567-1570		CKSRYB104K25
C1559-1566		CKSRYB272K50
C1571-1574		CKSYB106K10
C1575-1578,1605		CKSRYB104K25
C1604,1606-1609		CEVW100M16
C1610-1612,1616-1619		CKSRYB104K25
C1613-1615,1621,1623		CEVW100M16
C1620,1622,1649,1651		CKSRYB103K50
C1624,1640,1643,1645		CEVW100M16
C1625,1632,1634,1636		CKSRYB104K25
C1628-1631		CCSRCH222J50
C1637,1639		CEVW100M25
C1638,1641,1642,1647		CKSRYB104K25
C1646,1650,1657,1660		CEVW100M16
C1648,1653,1658,1659		CKSRYB104K25
C1662-1665		CEVW100M16
C1702,1705,1707		CKSRYB103K50
C1703,1704,1706,1708		CKSRYB104K25
C1714-1717		CKSRYB104K25
SEMICONDUCTORS		
IC1403		DYW1762

E PANEL 1 ASSY

Mark No.	Description	Part No.
SEMICONDUCTORS		
IC5000,5001		TC74HC4052AF
IC5002		NJM2903M
Q5000,5008-5010		2SC3052
Q5001-5005,5011		2SC4154
Q5006,5023,5027,5029		DTC143EK
Q5007,5024,5026,5028		2SB1188
Q5012-5015,5020,5022		2SC3052
Q5016-5019,5021		2SC4154
Q5025		RT1N431M
Q5030,5032,5034		2SB1188
Q5031,5033		DTC143EK
Q5035		RT1P431M
D5000,5001,5019-5026		1SS355
D5004,5006,5008,5010		SLI-343YYW(RST)
D5012,5014,5017,5018		SLI-343YYW(RST)
D5015		SLR343BC4T(JKLM)
D5016,5027,5028,5043		SLR-343VC(NPQ)
D5029-5032,5045-5048		SLI-343YYW(RST)
D5033-5041,5049-5057		SLR-343MC(NPQ)
D5042,5058,5059,5075		1SS355
D5044,5060,5061,5076		SLR-343VC(NPQ)
D5062-5065,5078-5081		SLI-343YYW(RST)
D5066-5074,5082-5090		SLR-343MC(NPQ)
D5077,5094,5095,5109		SLR-343VC(NPQ)
D5091-5093,5124-5126		1SS355
D5096-5099,5111-5114		SLI-343YYW(RST)
D5100-5108,5115-5123		SLR-343MC(NPQ)
D5110		SLR-343VC(NPQ)
D5134		1SS355
MISCELLANEOUS		
V5000 FL INDICATOR TUBE		DEL1063
VR5000-5009,5013 POTENTIOMETER		DCS1065
VR5010 POTENTIOMETER		DCS1095
VR5011 POTENTIOMETER		DCS1096
VR5012,5014 POTENTIOMETER		DCS1097
VR5015 POTENTIOMETER		DCS1065
S5000,5003,5004,5006 TACT SWITCH		DSG1079
S5001 SLIDE SWITCH		DSH1058
S5002,5005,5008 LEVER SWITCH		DSK1033
S5007,5009,5010 TACT SWITCH		DSG1079
S5011 LEVER SWITCH		DSK1033
S5012-5019 TACT SWITCH		DSG1079
S5020 SLIDE SWITCH		DSH1066
CN5000 27P CONNECTOR		VKN1258
CN5001 CONNECTOR 13P		52492-1320
CN5002 11P CONNECTOR		VKN1242
0 FL HOLDER		DNF1772
RESISTORS		
R5019,5037,5039,5041		RS1/10S391J
R5043,5045,5047		RS1/10S391J
R5056,5057		RS1/8S100J
R5186		RS1/10S0R0J
Other Resistors		RS1/16S###J
CAPACITORS		
C5000		CEJQ101M10
C5001-5010,5012		CKSRYB104K25
C5011		CEAT471M6R3
C5017-5019,5021-5054		CKSRYB104K25
C5020		CEAT470M35

F PANEL 2 ASSY

Mark No.	Description	Part No.
SEMICONDUCTORS		
IC6001		TC74HC4052AF
IC6002		TC74HCT08AF
Q6001		2SC4154
D6001,6002,6005-6028		1SS355
D6003,6004		SLI-343YYW(RST)
MISCELLANEOUS		
VR6001,6005 POTENTIOMETER		DCS1096
VR6002 POTENTIONETER		DCS1065
VR6003,6004 POTENTIOMETER		DCS1097
S6001 12MM GS ENCODER		DSX1064
S6002 TACT SWITCH		DSG1079
S6003 ROTARY SWITCH		DSG1098
S6004,6006 SLIDE SWITCH		DSH1058
S6005,6007 SLIDE SWITCH		DSH1066
S6008-6010 SLIDE SWITCH		DSH1058
S6011 ROTARY ENCODER		DSX1068

Mark	No.	Description	Part No.
	CN6001	31P CONNECTOR	VKN1262
	CN6002,6004	CONNECTOR	B4B-PH-K-Y
	CN6003,6006	CONNECTOR	B4B-PH
	CN6005	WIRE ASSEMBLY	PG06MR-E07
	CN6007	CONNECTOR 13P	52492-1320
	RESISTORS		
	All Resistors		RS1/16S###J
	CAPACITORS		
	C6001,6004,6006-6015		CKSRYB104K25
	C6002,6003		CKSRYB103K50
	C6016		CEAT101M10
	C6017-6025		CKSRYB104K25

G OUTPUT ASSY

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
⚠	IC301		BD9703T-V5
	IC302		TC7S04FU
⚠	IC303		NJM78M05FA
⚠	IC304		NJM79M05FA
	IC4001,4002,4005,4006		NJM4580MD
	IC4003,4004,4012		NJM5532DD
	IC4007,4008,4011		RNB4580F
	Q301,305		2SD1859X
	Q302		2SB1238X
⚠	Q303		2SD2012
	Q306,307		2SC4154
	Q308		2SC1740S
	Q4001-4004,4019,4020		2SC5938A
	Q4005-4008,4013,4014		2SK209
	Q4009-4012,4015,4016		INC2001AC1
	Q4017,4018,4025,4026		2SK209
	Q4021		2SC2412K
	Q4022,4035		RT1N241M
	Q4027,4028		2SC5938A
	Q4029,4031		2SC4081
	Q4030,4032		2SA1576A
	Q4033,4034		2SK209
	Q4036		RT1P241M
⚠	D302-305,308,309		1SR154-400
⚠	D306,307		RB060L-40
⚠	D310		RB160L-40
	D311		UDZS5R1(B)
⚠	D312,321,323,324		1SR154-400
	D313		UDZS5R6(B)
	D314,315		RB501V-40
	D316		UDZS30(B)
	D317,318,322		1SS355
	D4001-4008,4010,4011		1SS355
	D4021		1SS355
	MISCELLANEOUS		
	L301	RADIAL LEAD INDUCTOR	DTL1168
	L4001	FERRITE CORE	VTF1091
	L4003-4006	FERRITE CORE	VTF1093
	JA4001,4002	CANON CONNECTOR	DKB1077
	JA4003	JACK	PKB1034
	JA4004-4007	HP JACK	DKN1452
	JA4008	JACK BOARD	PKB1033
	JA4009	CONNECTOR	DKN1188
	KN301,4001	WRAPPING TERMINAL	VNF1084
	S4001	SLIDE SWITCH	DSH1063
	S4002	SLIDE SWITCH	DSH1025
	CN301	10P TOP POST	B10B-EH
	CN302	CONNECTOR	B6B-PH
	CN303	9P JUMPER CONNECTOR	52147-0910
	CN304,4002	CONNECTOR POST	B7B-PH
	CN305	11P CONNECTOR	VKN1242
	CN4001	CONNECTOR	B11B-PH
	CN4003	9P CONNECTOR	VKN1240
	CN4004	CONNECTOR	B4B-PH
	0	SHIELD CASE (MIDI)	DNH2736
	0	CANON SHIELD	DNF1789
	JH301	PCB BINDER	VEF1040
⚠	P105	PROTECTOR (3.5 A)	AEK7017
⚠	P306	PROTECTOR (250 mA)	AEK7002
⚠	P311	PROTECTOR (315 mA)	AEK7003
	RESISTORS		
	R304		RD1/2VM562J
	R308		RS1/16S3301F
	R309		RS1/16S8200F
⚠	R315		RD1/2VM102J
	R4001-4008		RN1/16SE4301D
	R4021-4024,4037-4040		RN1/16SE3901D
	R4025-4032		RN1/16SE2001D
	R4055-4062		RN1/16SE4701D
	R4070-4073		RD1/2VM391J
	R4074-4077,4110,4111		RN1/16SE1002D
	R4078-4081		RN1/16SE9101D
	R4084,4087,4088,4091		RN1/16SE1201D
	R4085,4086,4089,4090		RN1/16SE3601D
	R4102-4105		RN1/16SE1202D
	R4106-4109		RN1/16SE1502D
	R4112,4113		RD1/2VM331J
	R4114,4115		RN1/16SE1002D
	R4122,4123,4126,4127		RS1/16S4701D
	R4124,4125,4130,4131		RS1/16S4702D
	R4132,4133		RS1/16S4301D
	R4134,4135		RN1/16SE3602D
	R4138,4139		RD1/2VM821J
	R4151,4152,4159		RS1/10S0R0J
	R4155		RS1/16S1801F
	R4156		RS1/16S3901F
	R4157,4158		RD1/2VM221J
	R4164,4165		RS1/16S5601D
	R4166,4167,4172,4173		RS1/16S1102D
	R4176,4177		RS1/16S3302D
	R4212,4213		RS2LMF150J
	R4227-4230		RD1/2VM100J
⚠	R4235,4236		RD1/4MUF100J
	Other Resistors		RS1/16S###J

Mark	No.	Description	Part No.
CAPACITORS			
	C301,303,307		CKSRYB473K50
	C302,304,306,308		CKSRYB473K25
	C305,318-320,322		CKSRYB104K25
	C309,4026,4028,4030		CKSRYB473K25
	C310		CEHAT471M50
	C311		CEAT682M25
	C312		CEAT102M25
	C313		CKSQYB105K16
	C314,315		CEAT332M35
	C316,317,4017,4023		CEHAT101M25
	C321		CKSYB106K10
	C323,328,4018,4019		CKSRYB104K25
	C324		CEAT682M16
	C325		CEAT222M16
	C326,327,331-334		CEAT100M50
	C329,4110		CEHAT101M10
	C330		CKSRYB104K50
	C335		CEANP2R2M50
	C336		CEAT471M35
	C4001-4004		CQMA821J50
	C4009-4016		CCSRCH471J50
	C4021,4022,4042,4043		CKSRYB104K25
	C4025,4027,4029,4031		CCH1357
	C4032,4073,4074,4097		CKSRYB473K25
	C4037-4040,4047-4050		CCSRCH820J50
	C4041,4044,4051,4052		CEHAT101M25
	C4045,4046,4065,4066		CKSRYB104K25
	C4053-4056		CQMA222J50
	C4061-4064,4083,4084		CCSRCH101J50
	C4067,4068,4075,4076		CEANP100M35
	C4069,4070,4092,4094		CKSRYB104K25
	C4071,4072		CCSRCH151J50
	C4077,4078		CQMA152J50
	C4079,4080,4091,4096		CEAT100M50
	C4081,4082		CKSRYB472K50
	C4085,4086		CKSRYB152K50
	C4087,4088		CCSRCH102J50
	C4089,4090,4101,4102		CEANP100M35
	C4093,4095		CCSRCH560J50
	C4098,4136,4137		CKSRYB473K25
	C4099,4100,4109,4125		CKSRYB104K25
	C4103,4104,4118,4119		CEAT100M50
	C4105,4106		CQMA472J50
	C4107,4108		CFTLA103J50
	C4111,4114		CKSRYB103K50
	C4120,4121		CKSRYB332K50
	C4122,4123		CCSRCH271J50
	C4127,4133,4135		CKSRYB104K25
	C4128,4129,4132,4134		CEAT100M50
	C4130,4131		CCSRCH181J50
	C4138-4141,4146-4149		CKSRYB104K25
	C4142,4143		CEAT221M16
	C4144,4145		CKSRYB334K10

Mark	No.	Description	Part No.
H	**FADER (CROSS) ASSY**		
MISCELLANEOUS			
	VR7001	VARIABLE RESISTOR	DCV1006
	CN7001	CONNECTOR(MT)	173979-6
I	**FADER (CH1) ASSY**		
MISCELLANEOUS			
	VR7101	VARIABLE RESISTOR	DCV1010
J	**FADER (CH2) ASSY**		
MISCELLANEOUS			
	VR7201	VARIABLE RESISTOR	DCV1010
	CN7201	CONNECTOR	S4B-PH
K	**FADER (CH3) ASSY**		
MISCELLANEOUS			
	VR7301	VARIABLE RESISTOR	DCV1010
L	**FADER (CH4) ASSY**		
MISCELLANEOUS			
	VR7401	VARIABLE RESISTOR	DCV1010
	CN7401	CONNECTOR	S4B-PH
M	**HP JACK ASSY**		
MISCELLANEOUS			
	L7701-7703	FERRITE CORE	VTF1093
	JA7702	HEADPHONE JACK	DKN1281
	CN7701	CONNECTOR	S4B-PH
CAPACITORS			
	C7701,7702		CKSRYB104K25
N	**REG ASSY**		
SEMICONDUCTORS			
	⚠ IC201		NJM78M15FA
	⚠ IC202		NJM79M15FA
	⚠ IC203		BA05T
	D201,202		RB501V-40
MISCELLANEOUS			
	J1	JUMPER WIRE	D20PDY0910E
	JH201	9P CABLE HOLDER	51048-0900
CAPACITORS			
	C201,202		CKSRYB104K50
	C203-206		CKSRYB104K25

Mark	No.	Description	Part No.

O TRANS ASSY

MISCELLANEOUS

⚠	J2	CONNECTOR ASSY	DKP3785
	CN102	10P TOP POST	B10B-EH

RESISTORS

	All Resistors		RS1/16S###J

MISCELLANEOUS

⚠	P101,103	PROTECTOR (3 A)	AEK7015
⚠	P102,104	PROTECTOR (3.5 A)	AEK7017
⚠	P312	PROTECTOR (750 mA)	AEK7007

P PRIMARY ASSY

MISCELLANEOUS

⚠	L2	FILTER	DTL1131
	H2,3	FUSE CLIP	AKR7001
⚠	S3	SWITCH	DSA1035
⚠	CN5	CONNECTOR	B2P3-VH
⚠	CN6	AC CORD SOCKET	RKP1751
	JH1,2	PCB BINDER	VEF1040

CAPACITORS

⚠	C1		ACG7033
⚠	C2		ACE7027
⚠	C5		ACG7030