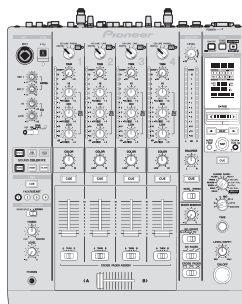


Pioneer

Service Manual



DJM-900NXS

ORDER NO.
RRV4170

DJ MIXER

DJM-900NXS

NOTE: The model name of this product is DJM-900nexus.

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

| Model | Type | Power Requirement | Remarks |
|------------|-------|-------------------------------------|---------|
| DJM-900NXS | SYXJ8 | AC 220 V to 240 V | |
| DJM-900NXS | UXJCB | AC 120 V | |
| DJM-900NXS | LXJ | AC 110 V to 120 V or 220 V to 240 V | |
| DJM-900NXS | KXJ5 | AC 220 V | |
| DJM-900NXS | XJCN5 | AC 220 V to 240 V | |



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

Health & Safety Code Section 25249.6 - Proposition 65

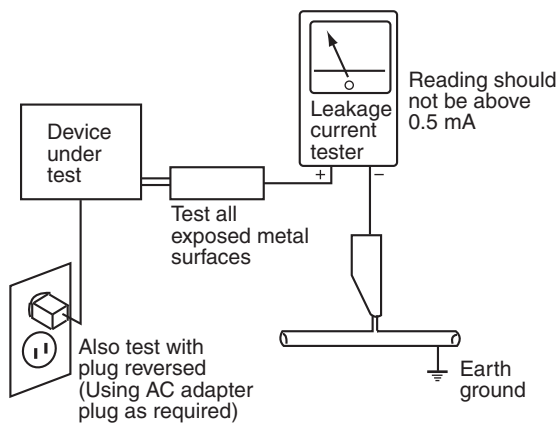
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

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

[Important Check Points for Good Servicing]

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

1. Product safety



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

- ① Use specified parts for repair.

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

- ② Do not perform modifications without proper instructions.

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

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

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

- ④ Make sure the screws are tightly fastened.

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

- ⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

- ⑩ Safe environment should be secured during servicing.

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

2. Adjustments



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

3. Lubricants, Glues, and Replacement parts



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

4. Cleaning



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

5. Shipping mode and Shipping screws



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

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C
D
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F

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.

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

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

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

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

1.2 NOTES ON REPLACING

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

| Assy Name | PCB Assy Part No. | Parts that is Difficult to Replace | | | |
|-----------|-------------------|------------------------------------|----------------------------|-------------------|--------------------------|
| | | Ref No. | Function | Part No. | Remarks |
| MAIN Assy | DWX3190 | IC1406 | 12V → 1.2V DC/DC converter | BD9326EFJ | IC with heat-pad |
| | | IC1407 | 12V → 3.3V DC/DC converter | BD9326EFJ | IC with heat-pad |
| | | IC501 | ETHER UCOM | R5S76700B200BG | BGA |
| | | IC1801 | USB UCOM | ADSP-BF524BBCZ-3A | BGA |
| | | IC2214 | FPGA | XC3S50A-4FTG256C | BGA |
| | | IC701 | DSP | D810K013BZKB400 | BGA |
| | | Q3405 | Transistor | 2SD1760F5 (R) | Transistor with heat-pad |
| | | Q3406 | Transistor | 2SB1184F5 (R) | Transistor with heat-pad |
| | | Q3407 | Transistor | 2SD1760F5 (R) | Transistor with heat-pad |
| | | Q3408 | Transistor | 2SB1184F5 (R) | Transistor with heat-pad |
| CDCB Assy | DWX3191 | IC3601 | CDC SENSOR | AD7147ACPZ500RL7 | IC with heat-pad |

1.3 SERVICE NOTICE

VOLTAGE MONITORING

This unit always monitors for power failure and will shut itself off immediately after an error is detected.

A power failure is indicated with flashing of the LFO FORM LED (Intervals: 250 ms [Lit 125 ms/Unlit 125 ms]).

All the LEDs other than LFO FORM will be unlit, and all the switches and VRs will be disabled.

Repair the unit according to the diagnostic procedures described in "5.4 Information on Power Diagnostics."

CONFIRMATION OF USER-SETTING

This product has user- and club-setting data. Be sure to confirm those data before starting repair, although changing them may not have a large effect. Use the Check Sheet in "8.5," to which you can transcribe the settings, as required.

The settings are stored in Flash ROM (IC502) on the Main Assy.

To display the [USER SETUP] screen, hold [ON/OFF (UTILITY)] pressed for at least 1 sec.

To display the [CLUB SETUP] screen, press [POWER] (ON) while holding [ON/OFF (UTILITY)] pressed.

FLASH ROM ON THE MAIN Assy

Never replace the Flash ROM (IC502) on the MAIN Assy during servicing.

If the FLASH ROM is assumed to be defective, replace the whole MAIN Assy.

This FLASH ROM contains data that can only be written in at the factory.

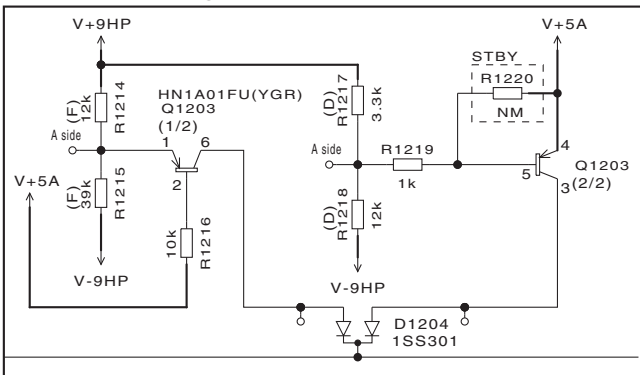
An IEEE 802.3-based MAC address specific to this unit has been written.

1.4 ON MODIFICATION OF THE VOLTAGE-MONITORING CIRCUITS

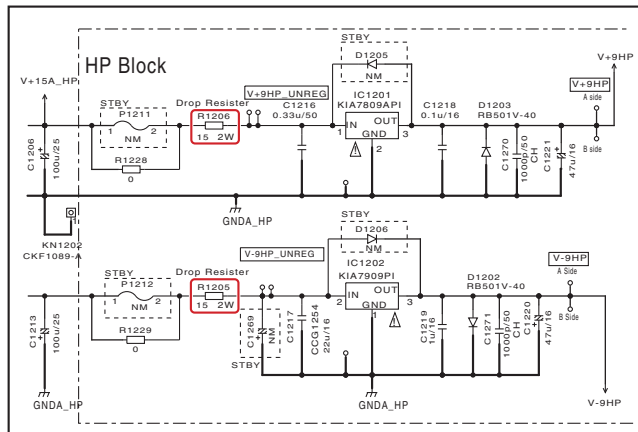
The voltage-monitoring circuits have been modified because of a malfunction found during mass-production of the products. Note that the measures taken for the products may differ by the timing of the production.

- Malfunction: A shutdown may occur when certain headphones are used with this product.
- Cause: Malfunction of the voltage-monitoring circuits
- Modifications: ① Removal of the ±9-V monitoring circuit
② Removal (short-circuiting) of the power-drop resistors (R1205, R1206)

① ±9-V monitoring circuit



② Power-drop resistors (R1205, R1206)

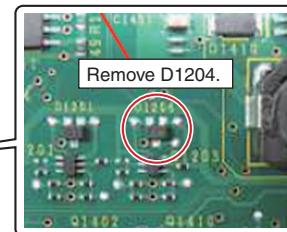
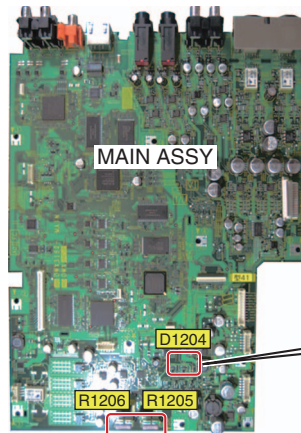
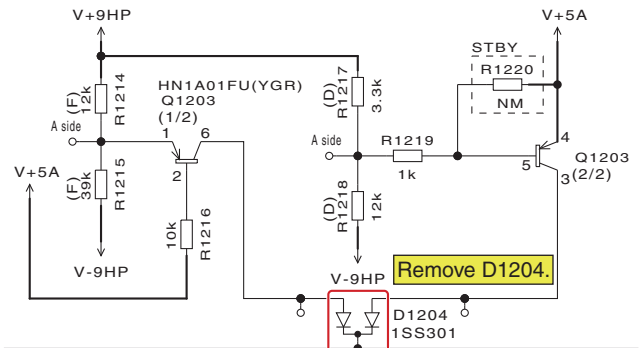


Timing of the production:

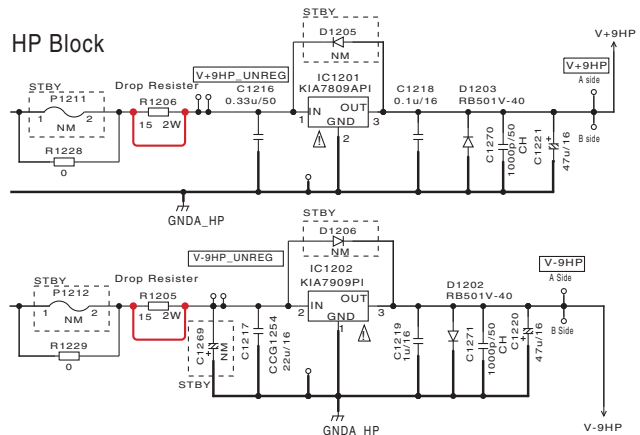
- (1) All units with serial numbers beginning with **KA** or **KB**, and some units with serial numbers beginning with **KC** or **KD**
- (2) Some units with serial numbers beginning with **KC**, **KD**, or **KF** (planned), and all units with serial numbers beginning with **KE**
- (3) Some units with serial numbers beginning with **KF**, and all units with serial numbers beginning with on and after **KG** (planned)

(1) All units with serial numbers beginning with **KA** or **KB**, and some units with serial numbers beginning with **KC** or **KD**

① Removal of the chip diode [D1204].



② Soldering of a lead wire or a piece of wire to R1205 and R1206.

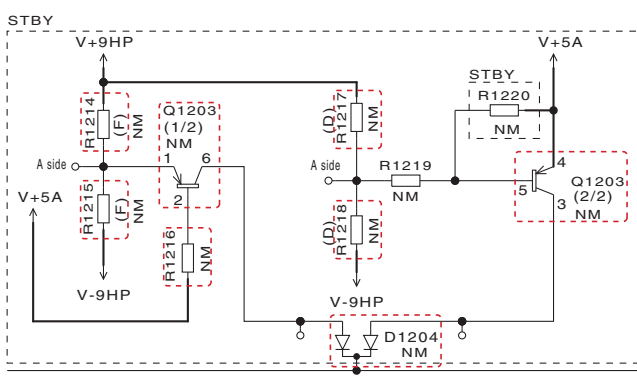


1. Soldering of a lead wire (or a piece of wire) to the resistor

2. Securing the lead wires (pieces of wire) to the resistors with adhesive
Silicone adhesive used: GYA1011

(2) Some units with serial numbers beginning with **KC, **KD**, or **KF** (planned), and all units with serial numbers beginning with **KE****

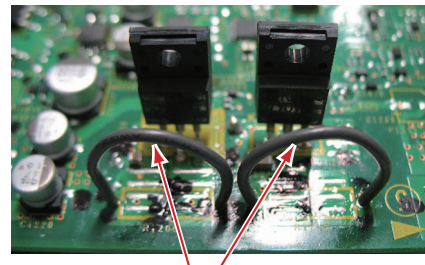
① Not mounting the ±9-V monitoring-circuit block.



The following parts are not mounted:

- D1204
- Q1203
- R1214
- R1215
- R1216
- R1217
- R1218
- R1219

② Mounting pieces of wire [DDC1022] instead of the resistors [R1205, R1206].



DDC1022-A

These parts are described as JP1205 and JP1206 in the circuit diagrams. However, JP1205 and JP1206 are not printed on the board.

(3) Some units with serial numbers beginning with **KF, and all units with serial numbers beginning with on and after **KG** (planned)**

① Not mounting the ±9-V monitoring-circuit block. (This measure is the same as (2).)

② Patterns on the board are to be modified so that R1205 and R1206 are short-circuited.

2. SPECIFICATIONS

2.1 SPECIFICATIONS

General

| | |
|--------------------------------------|---|
| Power requirements..... | AC 220 V to 240 V, 50 Hz/ 60 Hz (SYXJ8, XJCN5) AC 120 V, 60 Hz (UXJCB) AC 110 V to 120 V or 220 V to 240 V, 50 Hz/ 60 Hz (LXJ) AC 220 V, 60 Hz (KXJ5) |
| Power consumption..... | 41 W (SYXJ8, LXJ, KXJ5, XJCN5) 42 W (UXJJCB) |
| Power consumption (standby)..... | 0.4 W |
| Main unit weight..... | 7.1 kg (15.7 lb) |
| Max. dimensions..... | 331 mm (W) × 107.9 mm (H) × 409 mm (D) (13 in. (W) × 4.2 in. (H) × 16.1 in. (D)) |
| Tolerable operating temperature..... | +5 °C to +35 °C (+41 °F to +95 °F) |
| Tolerable operating humidity..... | 5 % to 85 % (no condensation) |

Audio Section

| | |
|---|-------------------------------|
| Sampling rate | 96 kHz |
| A/ D, D/ A converter..... | .24 bits |
| Frequency characteristic | |
| CD/ LINE..... | 20 Hz to 20 kHz |
| S/ N ratio (rated output) | |
| PHONO..... | 88 dB |
| CD/ LINE..... | 105 dB |
| MIC1, MIC2..... | 84 dB |
| Total harmonic distortion (CD/ LINE — MASTER1)..... | 0.005 % |
| Standard input level / Input impedance | |
| PHONO..... | -52 dBu/ 47 kΩ |
| CD/ LINE..... | -12 dBu/ 47 kΩ |
| MIC1..... | -52 dBu/ 8 kΩ |
| MIC2..... | -52 dBu/ 12 kΩ |
| RETURN..... | -12 dBu/ 47 kΩ |
| Standard output level / Load impedance / Output impedance | |
| MASTER1..... | +8 dBu/ 10 kΩ/ 5 Ω or lower |
| MASTER2..... | +2 dBu/ 10 kΩ/ 22 Ω or lower |
| REC OUT..... | -8 dBu/ 10 kΩ/ 22 Ω or lower |
| BOOTH..... | +8 dBu/ 10 kΩ/ 1 kΩ or lower |
| SEND..... | -12 dBu/ 10 kΩ/ 1 kΩ or lower |
| PHONES..... | +8.5 dBu/ 32 Ω/ 1 Ω or lower |
| Rated output level / Load impedance | |
| MASTER1..... | +26 dBu/ 10 kΩ |
| MASTER2..... | +22 dBu/ 10 kΩ |
| Crosstalk (LINE)..... | 82 dB |
| Channel equalizer characteristic | |
| HI..... | -26 dB to +6 dB (13 kHz) |
| MID..... | -26 dB to +6 dB (1 kHz) |
| LOW..... | -26 dB to +6 dB (70 Hz) |
| Microphone equalizer characteristic | |
| HI..... | -12 dB to +12 dB (10 kHz) |
| LOW..... | -12 dB to +12 dB (100 Hz) |

Accessories

- CD-ROM (DXX2619)
- USB cable (DDE1128)
- Power cord (SYXJ8: ADG7062, UXJCB: DDG1108, LXJ: ADG7062, KXJ5: XDG3066, /XJCN5: ADG7105)
- Operating instructions (SYXJ8: DRB1533, UXJCB: DRB1542, LXJ: DRB1543, KXJ5: DRB1545, /XJCN5: DRB1544)

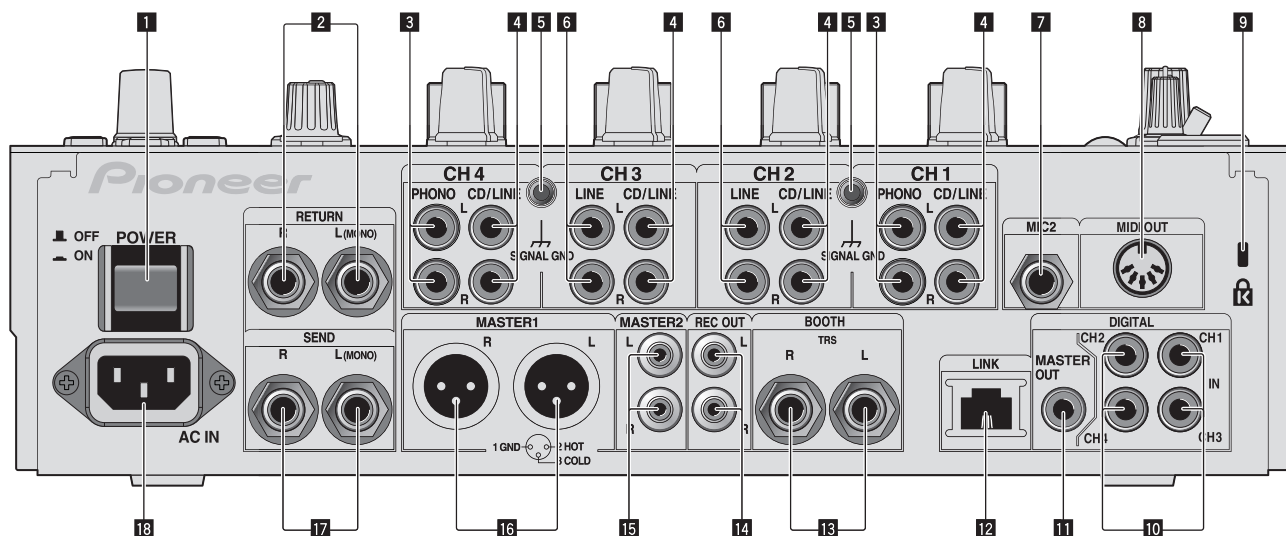
Input / Output terminals

| | |
|--|--------|
| PHONO input terminal | |
| RCA pin jack..... | 2 sets |
| CD/ LINE input terminal | |
| RCA pin jacks..... | 4 sets |
| LINE input terminal | |
| RCA pin jack..... | 2 sets |
| MIC1 input terminal | |
| XLR connector/ phone jack (Ø 6.3 mm)..... | 1 set |
| MIC2 input terminal | |
| Phone jack (Ø 6.3 mm)..... | 1 set |
| RETURN input terminals | |
| Phone jack (Ø 6.3 mm)..... | 1 set |
| DIGITAL IN coaxial input terminal | |
| RCA pin jacks..... | 4 sets |
| MASTER output terminal | |
| XLR connector..... | 1 set |
| RCA pin jack..... | 1 sets |
| BOOTH output terminal | |
| Phone jack (Ø 6.3 mm)..... | 1 set |
| REC OUT output terminal | |
| RCA pin jack..... | 1 sets |
| SEND output terminal | |
| Phone jack (Ø 6.3 mm)..... | 1 set |
| DIGITAL MASTER OUT coaxial output terminal | |
| RCA pin jack..... | 1 sets |
| MIDI OUT terminal | |
| 5P DIN..... | 1 set |
| PHONES output terminal | |
| Stereo phone jack (Ø 6.3 mm)..... | 1 set |
| USB terminal | |
| B type..... | 1 set |
| LINK terminal | |
| LAN terminal (100Base-TX)..... | 1 set |

- The specifications and design of this product are subject to change without notice.

2.2 PANEL FACILITIES

A Rear panel



1 POWER button

Turns this unit's power on and off.

2 RETURN terminals

Connect to the output terminal of an external effector. When the [L (MONO)] channel only is connected, the [L (MONO)] channel input is simultaneously input to the [R] channel.

3 PHONO terminals

Connect to a phono level (MM cartridge) output device. Do not input line level signals.

To connect a device to the [PHONO] terminals, remove the short-circuit pin plug inserted in the terminals.

Insert this short-circuit pin plug into the [PHONO] terminals when nothing is connected to them to cut external noise.

4 CD/LINE terminals

Connect to a DJ player or a line level output component.

5 SIGNAL GND terminal

Connect an analog player's ground wire here. This helps reduce noise when the analog player is connected.

6 LINE terminals

Connect to a cassette deck or a line level output component.

7 MIC2 terminal

Connect a microphone here.

8 MIDI OUT terminal

Connect this to the MIDI IN terminal on an external MIDI sequencer.

9 Kensington security slot

10 DIGITAL IN terminal

Connect these to the digital coaxial output terminals on DJ players, etc. The sound may be momentarily interrupted when the output signal sampling frequency is switched.

11 DIGITAL MASTER OUT terminals

Outputs the master channel audio signals.

12 LINK terminal

Connect these to the LINK terminals on Pioneer DJ players or the LAN ports of computers on which rekordbox is installed (PRO DJ LINK).

To connect multiple devices, use a switching hub (commercially available).

Use a 100Base-TX-compatible switching hub. Some switching hubs may not operate properly.

13 BOOTH terminals

Output terminals for a booth monitor, compatible with balanced or unbalanced output for a TRS connector.

14 REC OUT terminals

This is an output terminal for recording.

15 MASTER2 terminals

Connect to a power amplifier, etc.

16 MASTER1 terminals

Connect to a power amplifier, etc.

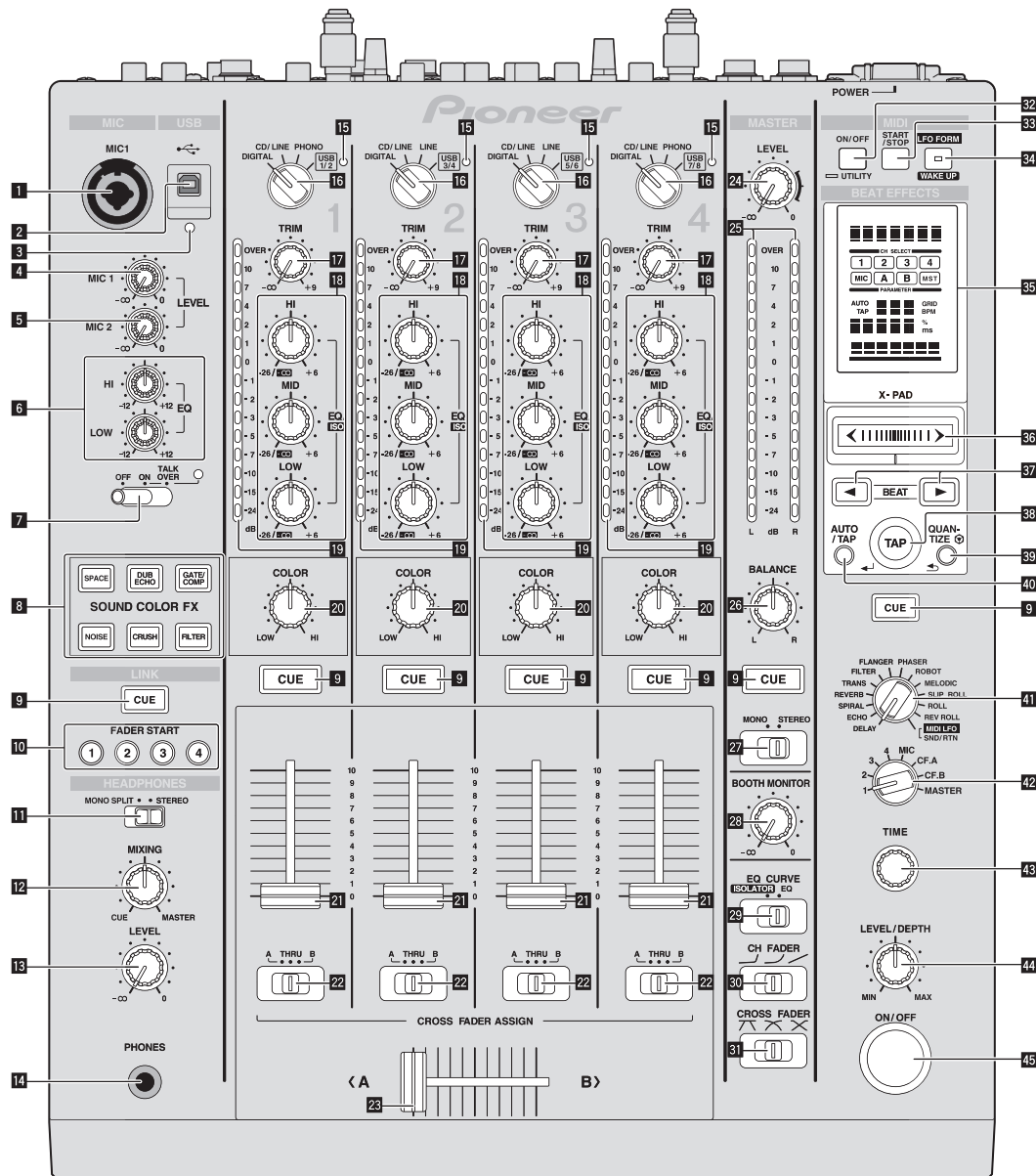
17 SEND terminals

Connect to the input terminal of an external effector. When the [L (MONO)] channel only is connected, a monaural audio signal is output.

18 AC IN

Connect to a power outlet using the included power cord. Wait until all connections between the equipment are completed before connecting the power cord. Be sure to use the included power cord.

Control Panel



1 MIC1 terminal

Connect a microphone here.

2 USB terminal

Connect the computer.

3 USB connection indicator

Lights when signals are being exchanged with the computer.

4 MIC1 LEVEL control

Adjusts the sound level output from the [MIC1] channel.

5 MIC2 LEVEL control

Adjusts the sound level output from the [MIC2] channel.

6 EQ (HI, LOW) controls

These adjust the tone quality of the [MIC1] and [MIC2] channels.

7 OFF, ON, TALK OVER selector switch

Turns the microphone on/off.

8 SOUND COLOR FX buttons

These turn the SOUND COLOR FX effects on/off.

9 CUE buttons

Press the [CUE] button(s) for the channel(s) you want to monitor.

10 FADER START (1, 2, 3, 4) buttons

These turn the fader start function on/off.

11 MONO SPLIT, STEREO selector switch

Switches how the monitor sound output from the headphones is distributed.

12 MIXING controls

These adjust the monitor volume balance of the sound of channels for which the [CUE] button is pressed and the sound of the [MASTER] channel.

13 LEVEL control

Adjusts the sound level output from the headphones.

14 PHONES terminal

Connect headphones here.

15 USB audio input indicator

Lights when sound is being input from the computer to the various channels.

A

- 16 DIGITAL, CD/LINE, PHONO, LINE, USB */* selector switch**
Select the input source of each channel from the components connected to this unit.
- 17 TRIM control**
Adjusts the level of audio signals input in each channel.
- 18 EQ/ISO (HI, MID, LOW) controls**
These adjust the sound quality of the different channels.
- 19 Channel Level Indicator**
Displays the sound level of the different channels before passing through the channel faders.

B

- 20 COLOR controls**
These change the parameters of the SOUND COLOR FX of the different channels.
- 21 Channel Fader**
Adjusts the level of audio signals output in each channel.
- 22 CROSS FADER ASSIGN (A, THRU, B) selector switch**
Set the output destination of each channel to [A] or [B].
- 23 Crossfader**
Outputs audio signals assigned by the crossfader assign switch corresponding to the curve characteristics selected by [CROSS FADER] (Crossfader Curve Selector Switch).

C

- 24 MASTER LEVEL controls**
Adjusts the sound level output from the [MASTER] channel.
- 25 Master Level Indicator**
Displays the sound level output from the [MASTER] channel.
- 26 BALANCE controls**
Adjusts the left/right balance of the sound output from the [MASTER1] terminals, etc.
- 27 MONO, STEREO selector switch**
Switches the sound output from the [MASTER1] terminals, etc., between monaural and stereo.

D

- 28 BOOTH MONITOR controls**
Adjusts the level of audio signals output at the [BOOTH] terminal.
- 29 EQ CURVE (ISOLATOR, EQ) selector switch**
Switches the function of the [EQ/ISO (HI, MID, LOW)] controls.
- 30 CH FADER (↵, ↗, ↘) selector switch**
Switches the channel fader's curve characteristics.
- 31 CROSS FADER (↖, ↗, ✕) selector switch**
This switches the crossfader curve characteristics.

E

- 32 ON/OFF (UTILITY) button**
— **ON/OFF:** Turns the MIDI function on/off.
— **UTILITY:** Displays the [USER SETUP] or [CLUB SETUP] screen.
- 33 START/STOP button**
Sends the MIDI start/MIDI stop signals.
- 34 LFO FORM (WAKE UP) button**
— **LFO FORM:** When [MIDI LFO] is selected at BEAT EFFECT, the MIDI signal's waveform switches each time the button is pressed.
— **WAKE UP:** Cancels the auto standby mode.
- 35 Main unit display**
- 36 X-PAD**
Adjusts the quantitative parameter of the BEAT EFFECT function.
- 37 BEAT ◀, ▶ buttons**
Sets the beat fraction for synchronizing the effect sound.
- 38 TAP (ENTER) button**
— **TAP:** When the BPM measurement mode is set to [TAP], the BPM is input manually by tapping the button with a finger.
— **ENTER:** Used to change this unit's settings.

F

- 39 QUANTIZE button**
• Used to change this unit's settings.
• When the QUANTIZE function is turned on for the BEAT EFFECT function, the effect's starting point is set to the nearest beat.

- 40 AUTO/TAP button**
Switches the BPM measurement mode.
- 41 DELAY, ECHO, SPIRAL, REVERB, TRANS, FILTER, FLANGER, PHASER, ROBOT, MELODIC, SLIP ROLL, ROLL, REV ROLL, SND/RTN (MIDI LFO) selector switch**
Switches the BEAT EFFECT effect type.
- 42 1, 2, 3, 4, MIC, CF.A, CF.B, MASTER selector switch**
Switches the channel to which the BEAT EFFECT is to be applied.
- 43 TIME control**
Adjust the BEAT EFFECT's time parameter.
- 44 LEVEL/DEPTH control**
Adjusts the BEAT EFFECT's quantitative parameter.
- 45 ON/OFF button**
Turns the BEAT EFFECT function on/off.

Do not pull on the channel fader and crossfader knobs with excessive force. The knobs are not designed to be removed. Pulling the knobs strongly may result in damaging the unit.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing / DJM

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

| No. | Procedures | Check points |
|-----|---|--|
| 1 | Check the firmware version in Test mode. | The firmware version must be the latest one. If it is not the latest one, be sure to update it. |
| 2 | Confirm whether the customer complain has been solved. If the customer complain occurs with the specific source, such as Mic, each Input, Fader, Equalizer, and Trim, input that specific source for checking. | The customer complain must not be reappeared. Audio and operations must be normal. |
| 3 | Check the analog audio input (Check the MIC1, MIC2 and RETURN.) (Make the analog connections with CDJ player, analog player and MIC.) | Audio and operations must be normal. |
| 4 | Check the analog audio output (MASTER1, 2, REC, BOOTH and SEND.) (Make the analog connection with CDJ player.) | Audio and operations must be normal. |
| 5 | Check the digital audio input/output (Make the dgital connection with CDJ player.) | Audio for each channel and operations must be normal. |
| 6 | Check DVS. | Make sure that PC applications function properly and that the audio signals and operations of each channel are normal. |
| 7 | Check the headphones output. | There must be no errors, such as noise, in the audio output. |
| 8 | Check playback, using the fader function. (Select the fader function then check operations of each channel with audio signals via the DSP.) | There must be no errors in audio output and operations of each channel. |
| 9 | Check the connection of each interface. | |
| | USB B | The device must be properly recognized by the PC. |
| | LINK | The LAN must be properly connected in Test mode. |
| 10 | Check the buttons and controls. | Make sure that all buttons and controls on the main unit function properly. |
| 11 | Check operations of the X-PAD. | Touch the X-PAD in Test mode and check that it operates properly. |
| 12 | Check the FL displays and LEDs. | Check that all the FL displays and LEDs light in Test mode. |
| 13 | Check the user settings. | They must be returned to those set before repair. |
| 14 | Check the appearance of the product. | No scratches or dirt on its appearance after receiving it for service. |

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

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

3.2 JIGS LIST

Jigs List

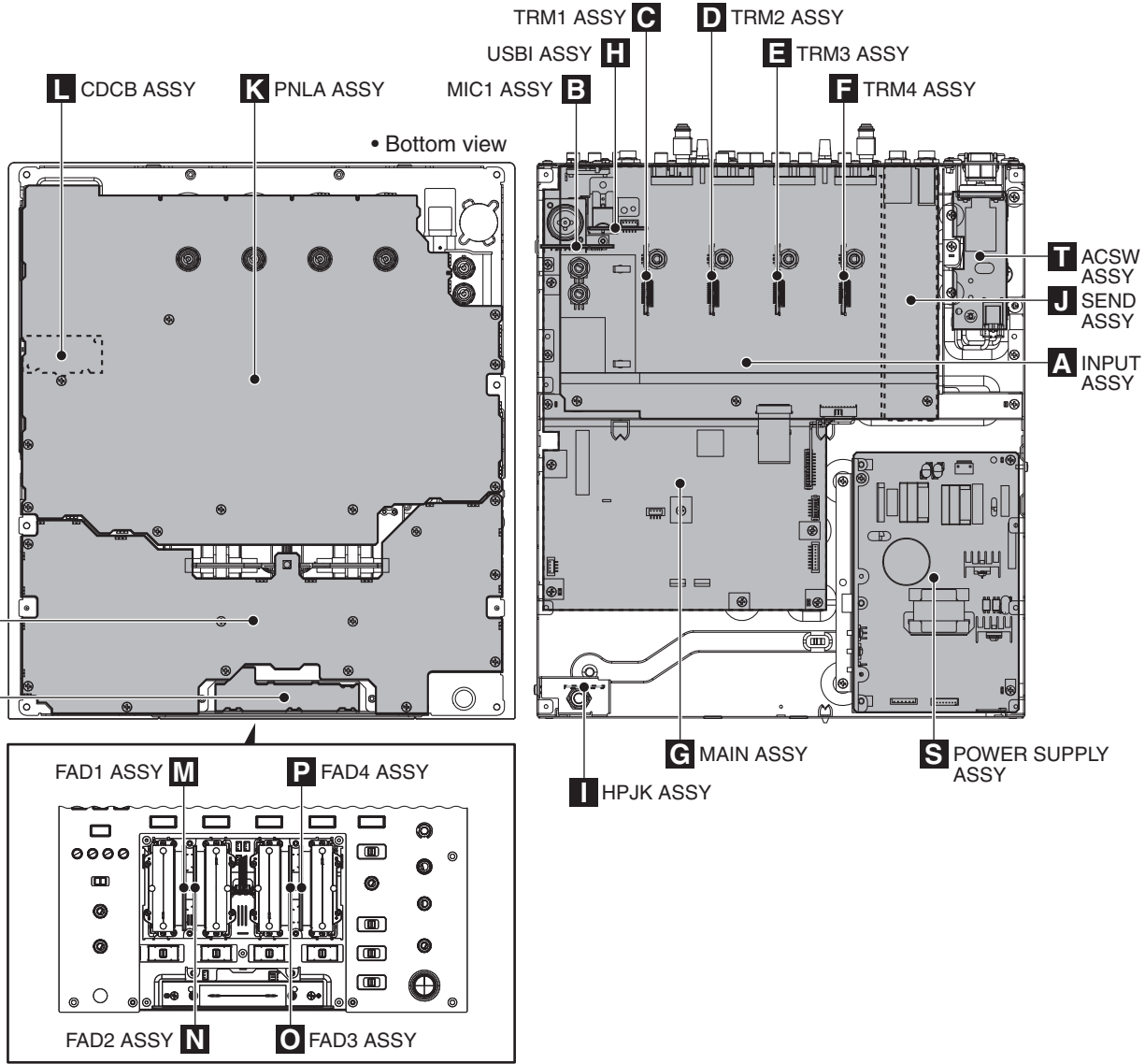
| Jig Name | Part No. | Purpose of use / Remarks |
|-----------|----------|------------------------------|
| USB cable | GGP1193 | for PC connection, accessory |

Lubricants and Glues List



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

3.3 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.

| Mark No. | Description | Part No. | Mark No. | Description | Part No. |
|---------------------------|----------------|----------|----------|----------------------|----------|
| LIST OF ASSEMBLIES | | | | | |
| NSP | 1..MOTHER ASSY | DWM2418 | NSP | 1..SUB ASSY | DWM2420 |
| | 2..MAIN ASSY | DWX3190 | | 2..ACSW ASSY | DWR1490 |
| | 2..CDCB ASSY | DWX3191 | | 2..PNLB ASSY | DWX3197 |
| | 2..USBI ASSY | DWX3192 | | 2..FAD1 ASSY | DWX3198 |
| | | | | 2..FAD2 ASSY | DWX3199 |
| NSP | 1..AUDIO ASSY | DWM2419 | | 2..FAD3 ASSY | DWX3200 |
| | 2..INPUT ASSY | DWX3193 | | 2..FAD4 ASSY | DWX3201 |
| | 2..SEND ASSY | DWX3195 | | 2..FADC ASSY | DWX3202 |
| | 2..TRM1 ASSY | DWX3203 | | 2..MIC1 ASSY | DWX3207 |
| | 2..TRM2 ASSY | DWX3204 | | 2..HPJK ASSY | DWX3208 |
| | 2..TRM3 ASSY | DWX3205 | | | |
| | 2..TRM4 ASSY | DWX3206 | | 1..PNLA ASSY | DWX3196 |
| | | | ⚠ | 1..POWER SUPPLY ASSY | DWR1492 |



5



6



7



8



A



B



C



D



E



F



5



6

DJM-900NXS



7




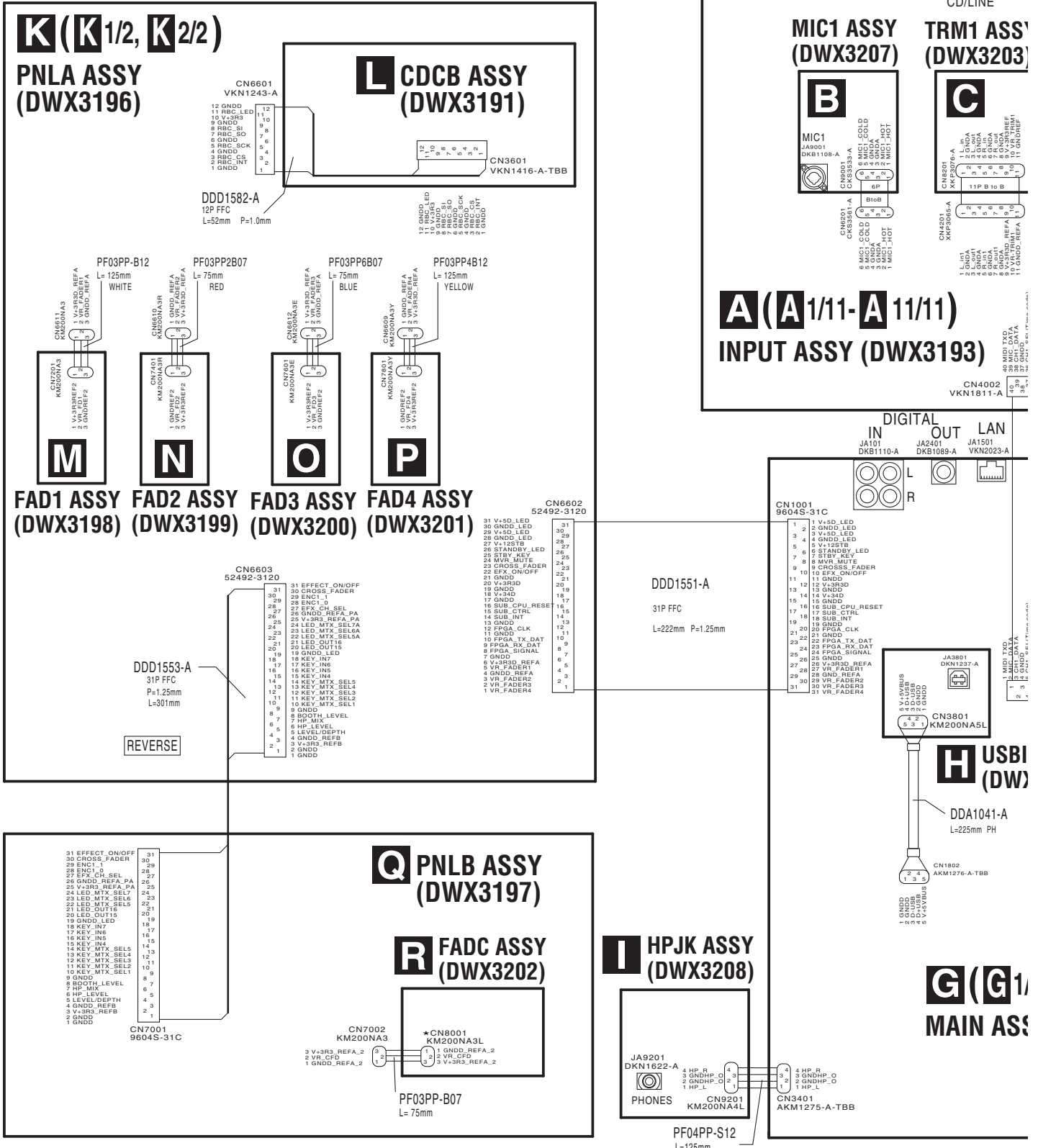
8

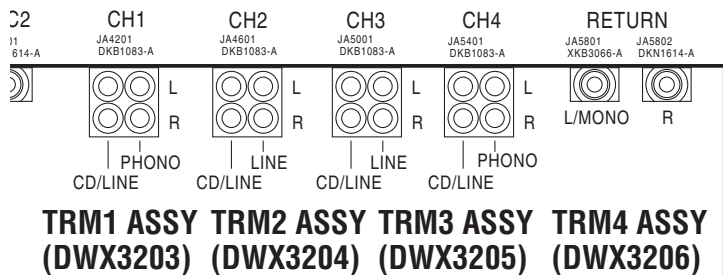


4. BLOCK DIAGRAM

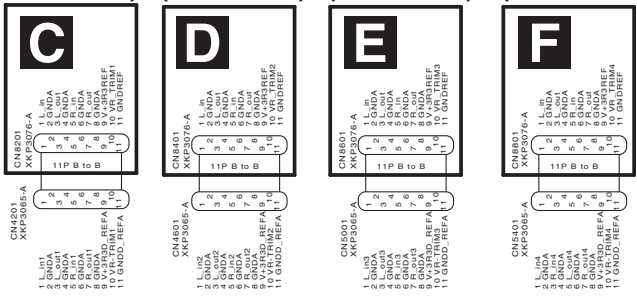
4.1 OVERALL WIRING DIAGRAM

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





TRM1 ASSY (DWX3203) **TRM2 ASSY (DWX3204)** **TRM3 ASSY (DWX3205)** **TRM4 ASSY (DWX3206)**

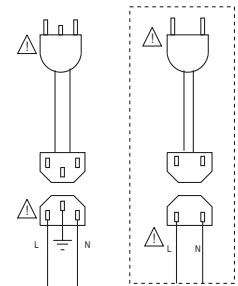


AC POWER CORD
UXJCB: DDG1108-A

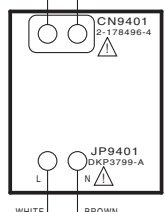
AC POWER CORD
SYXJ8/LOXJ:ADG7062-A
XJCNS:ADG7105-B
KXJ5:XDG3066-B

AC INLET ASSY
UXJCB/JXJ: DKP3927-A

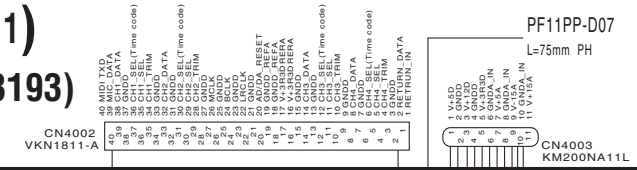
AC INLET ASSY
SYXJ8/LOXJ/XJCNS/KXJ5
:DKP3762-B



T ACSW ASSY (DWR1490)



1/11) IX3193)



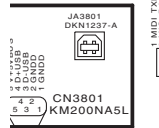
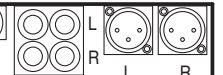
DIGITAL OUT LAN

DDD1550-A
40P FFC L=90mm P=0.5mm

BOOTH MASTER1

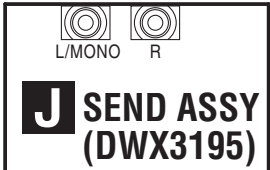
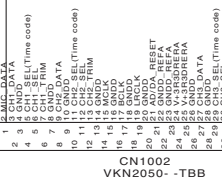
MASTER2 REC

SEND

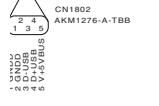
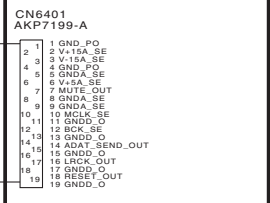


H USBI ASSY (DWX3192)

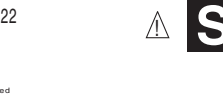
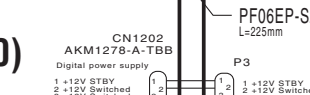
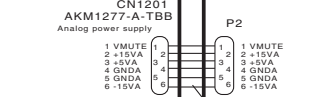
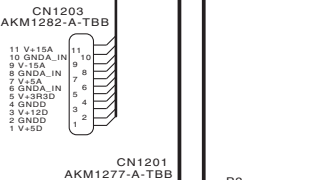
DDA1041-A L=225mm PH



J SEND ASSY (DWX3195)



G (G1/21-G21/21) MAIN ASSY (DWX3190)

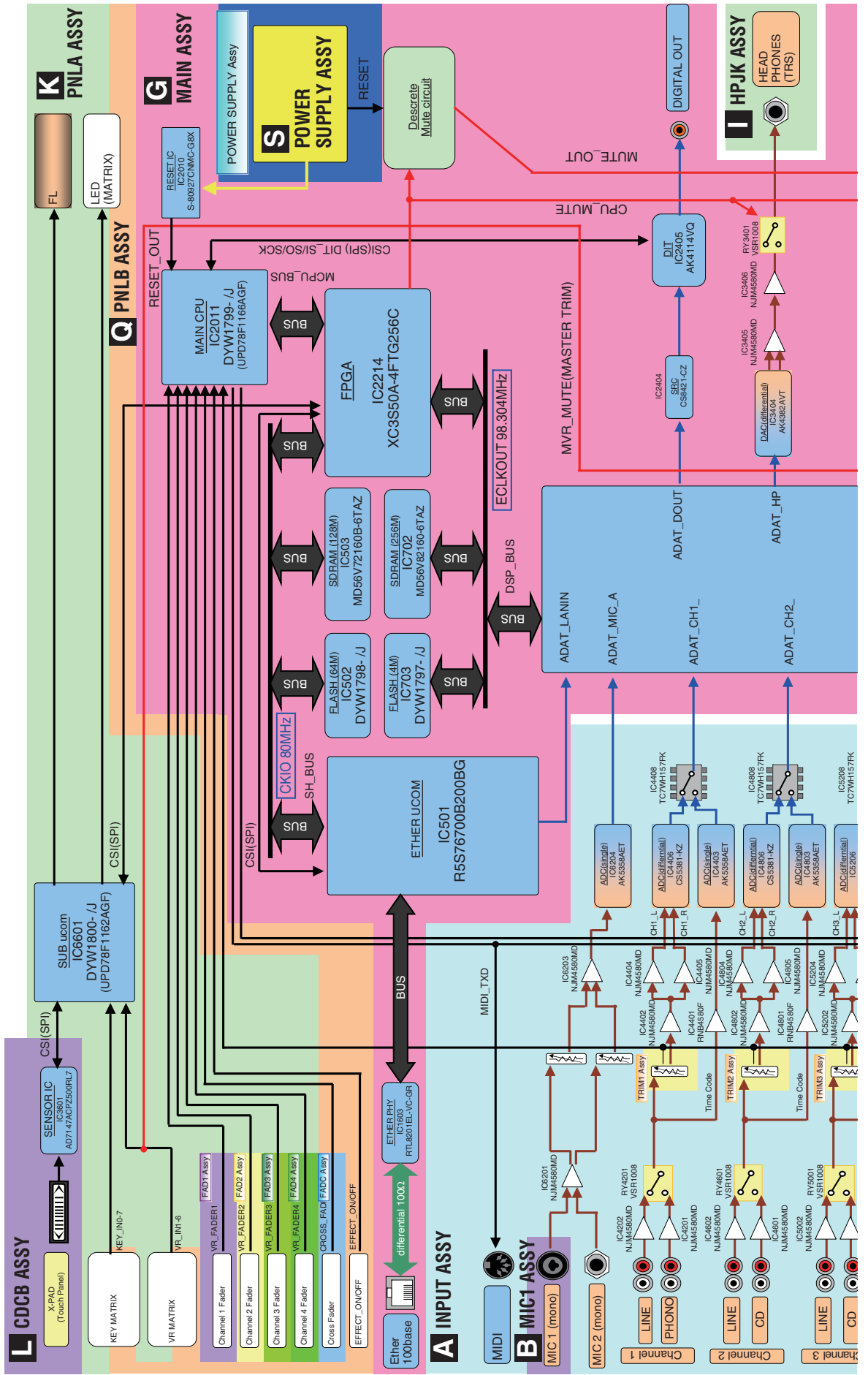
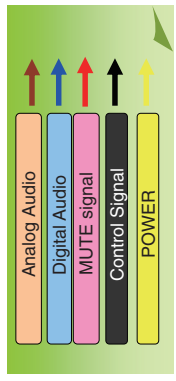


S POWER SUPPLY ASSY (DWR1492)

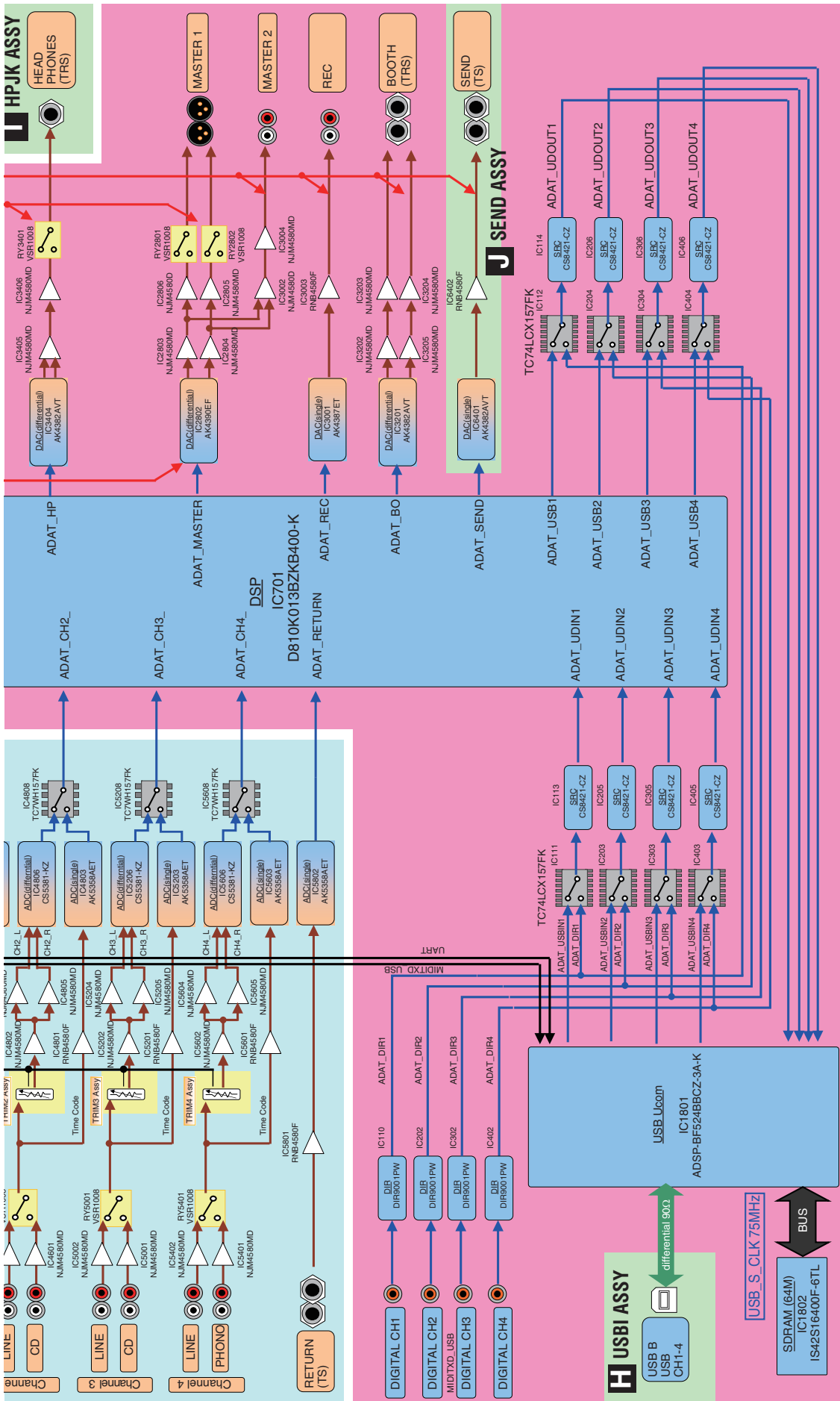


4.2 AUDIO SYSTEM BLOCK DIAGRAM

A
B
C
D
E
F



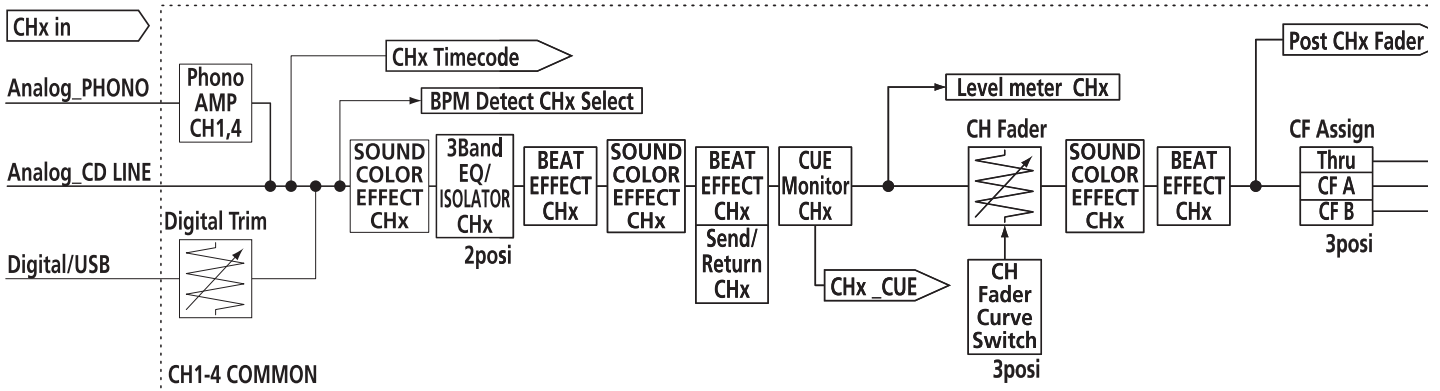
DJM-900NXS



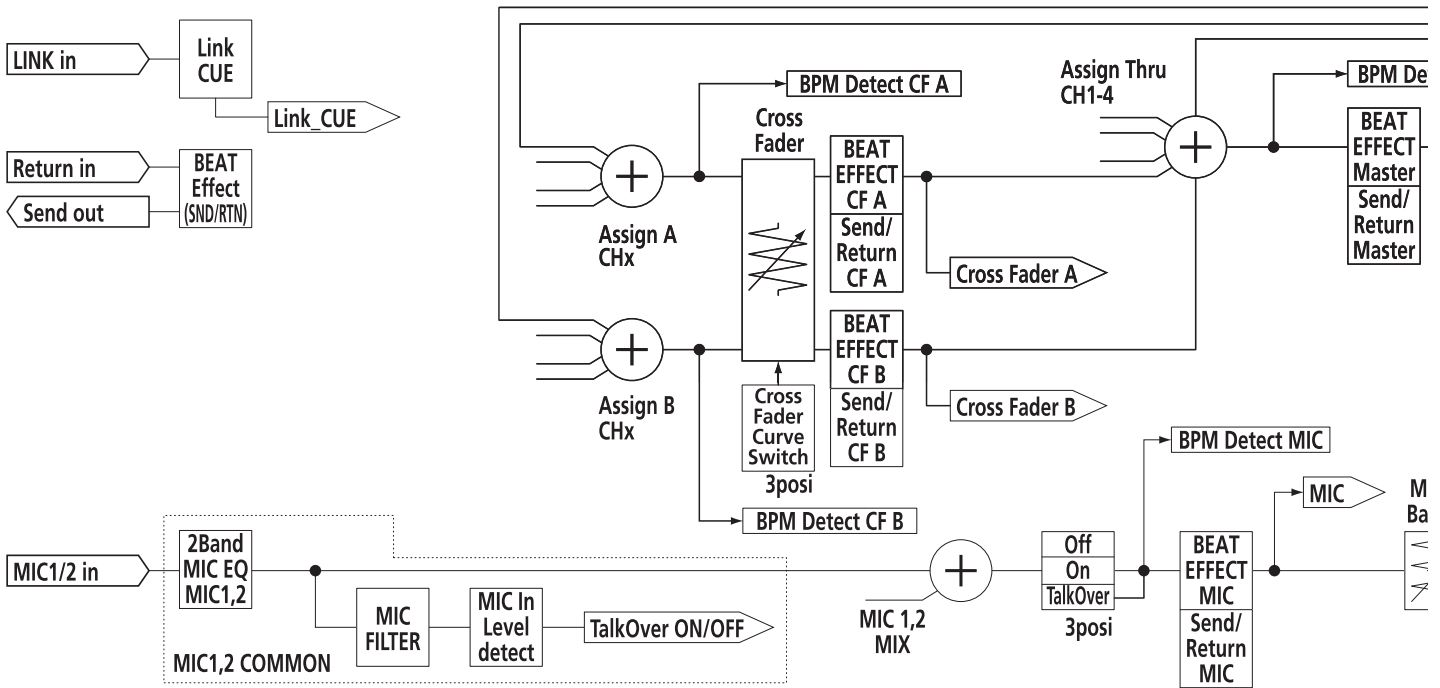
DJM-900NXS

4.3 DSP BLOCK DIAGRAM

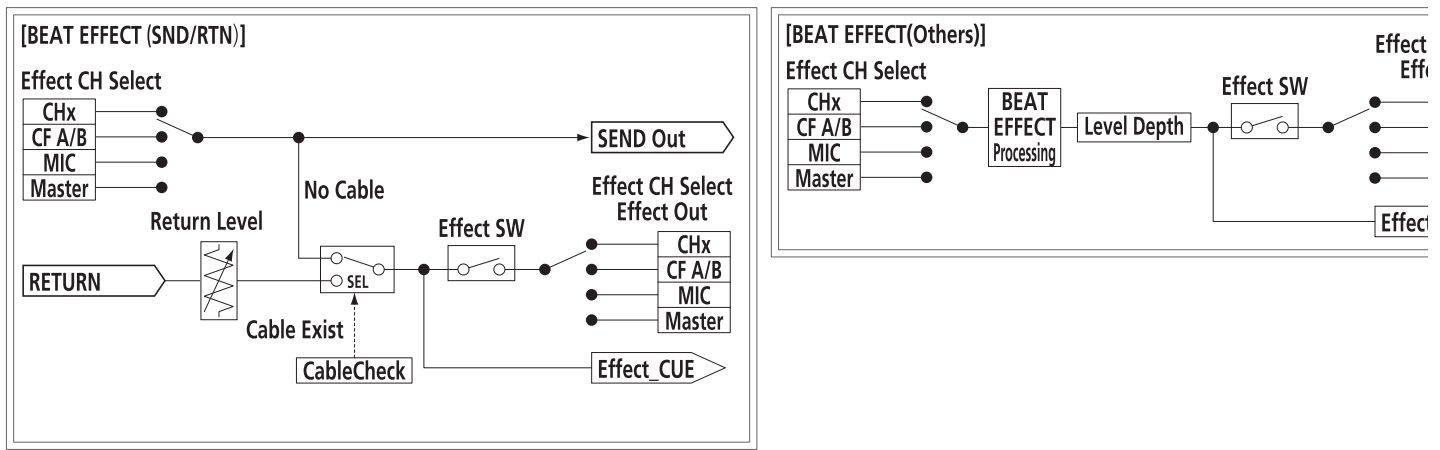
A



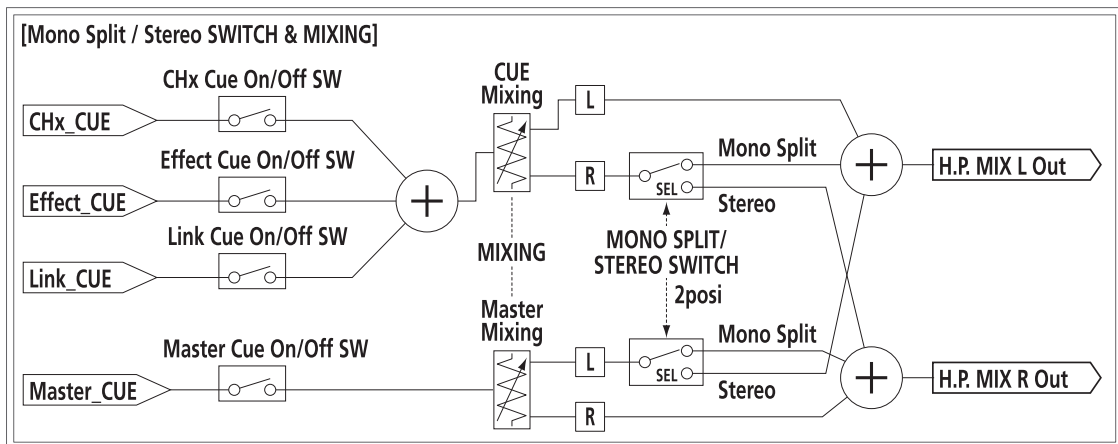
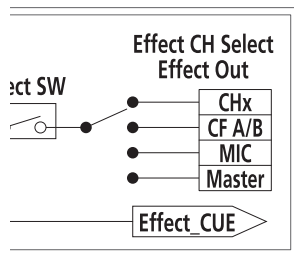
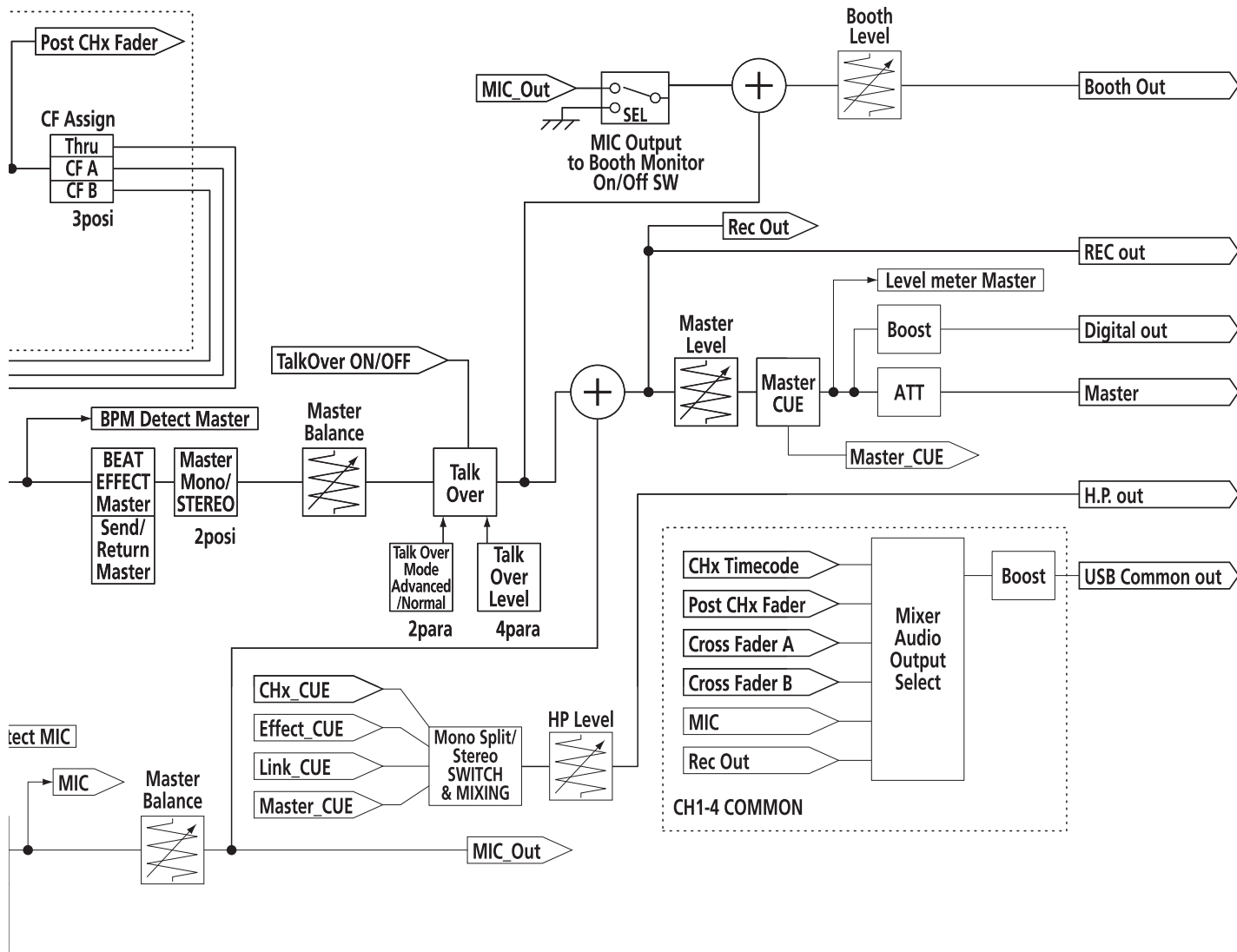
C



D

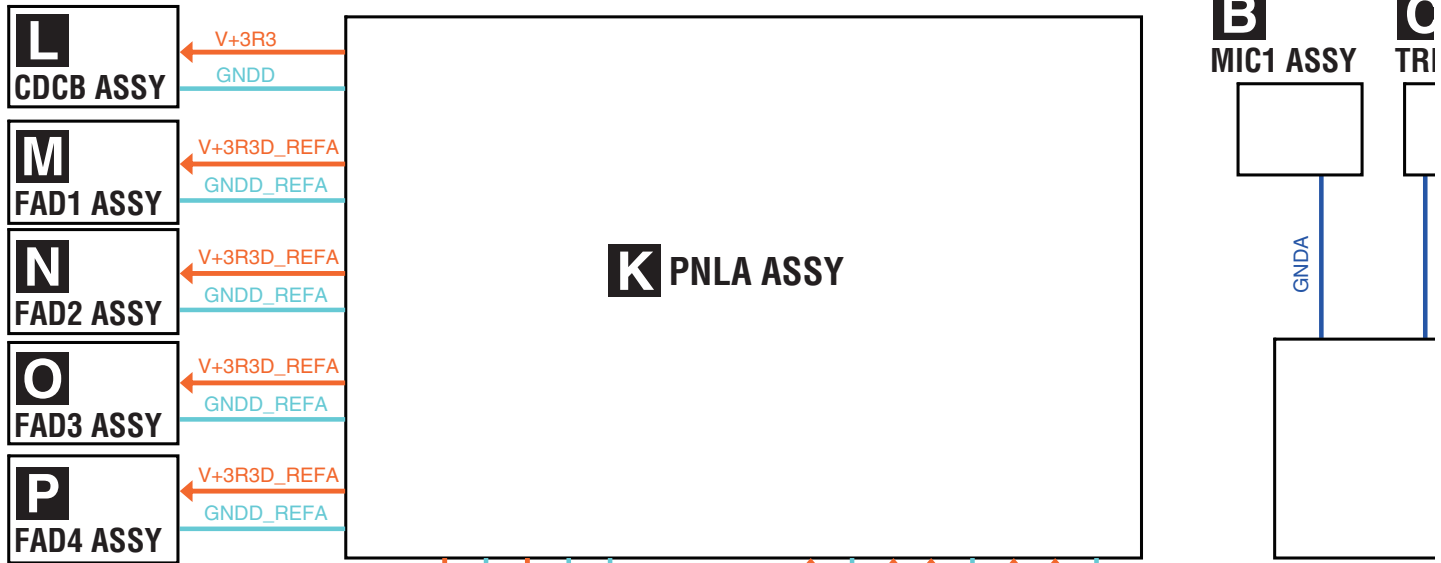


F

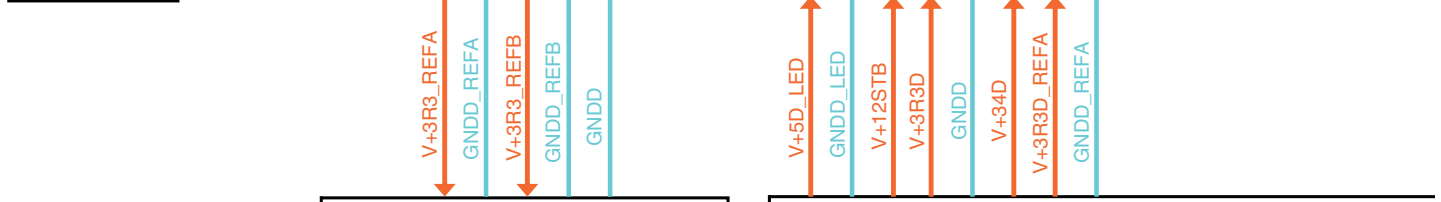


4.4 POWER BLOCK DIAGRAM

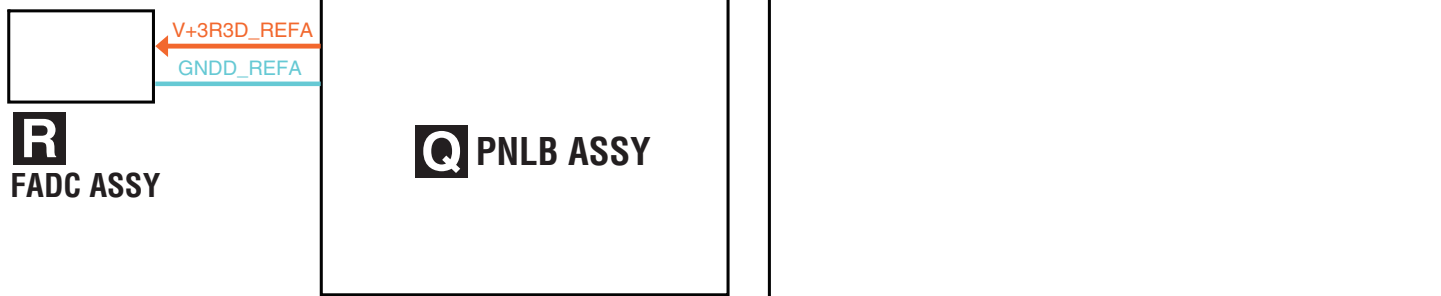
A



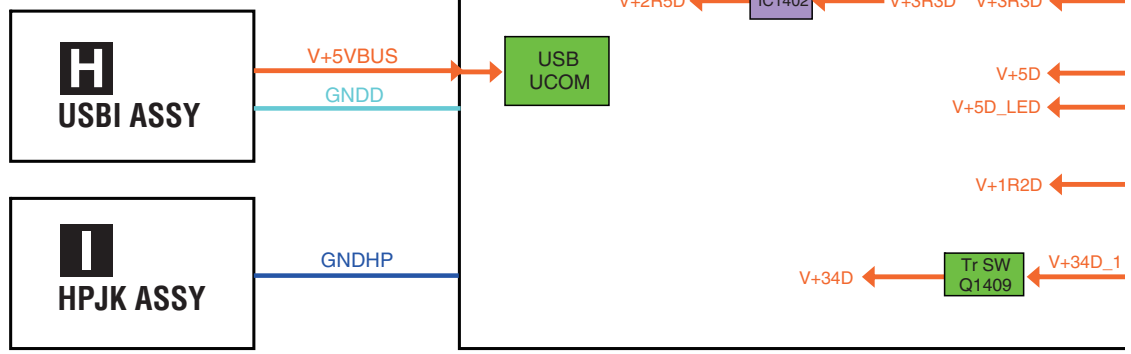
C



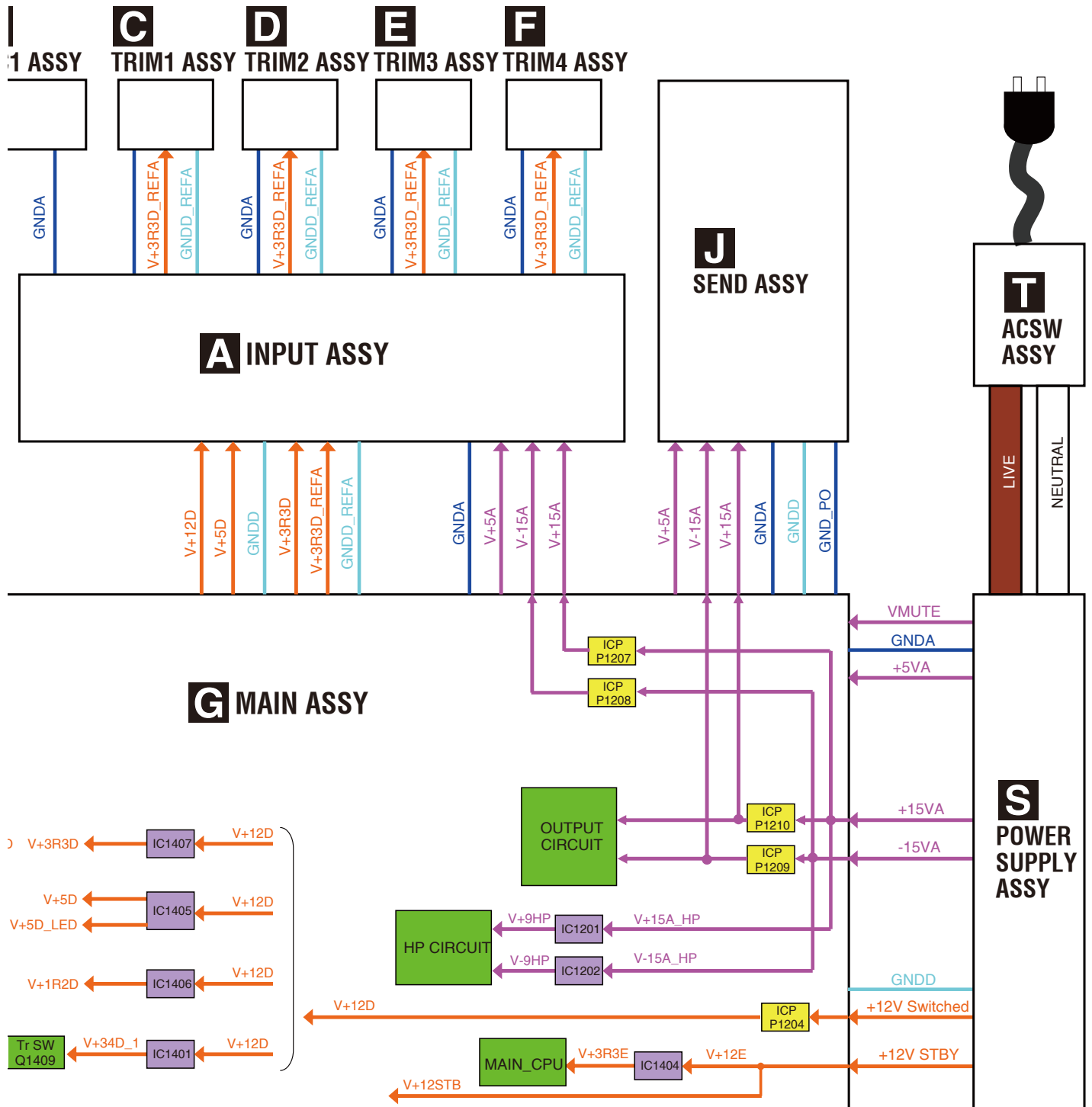
D



E



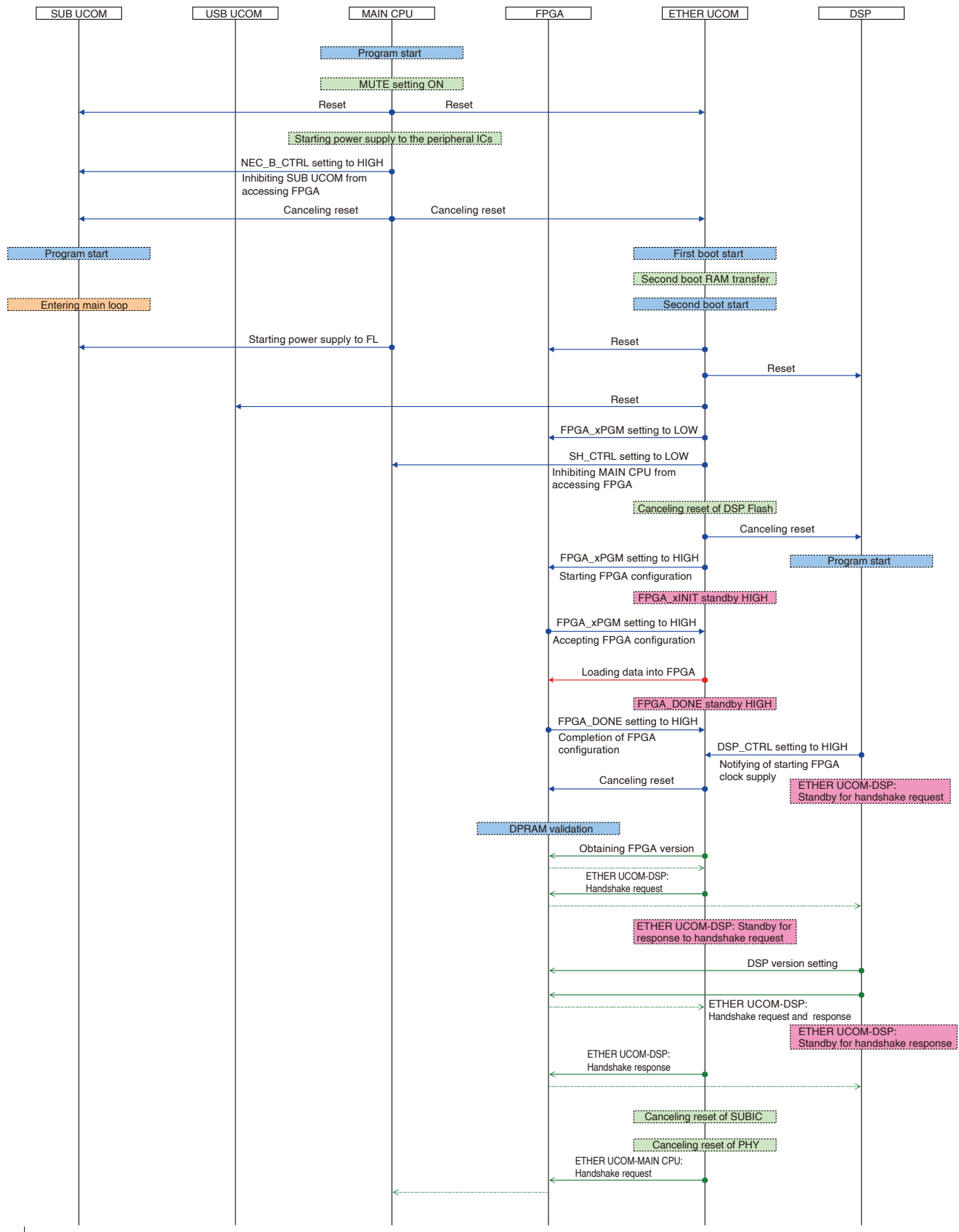
F



5. DIAGNOSIS

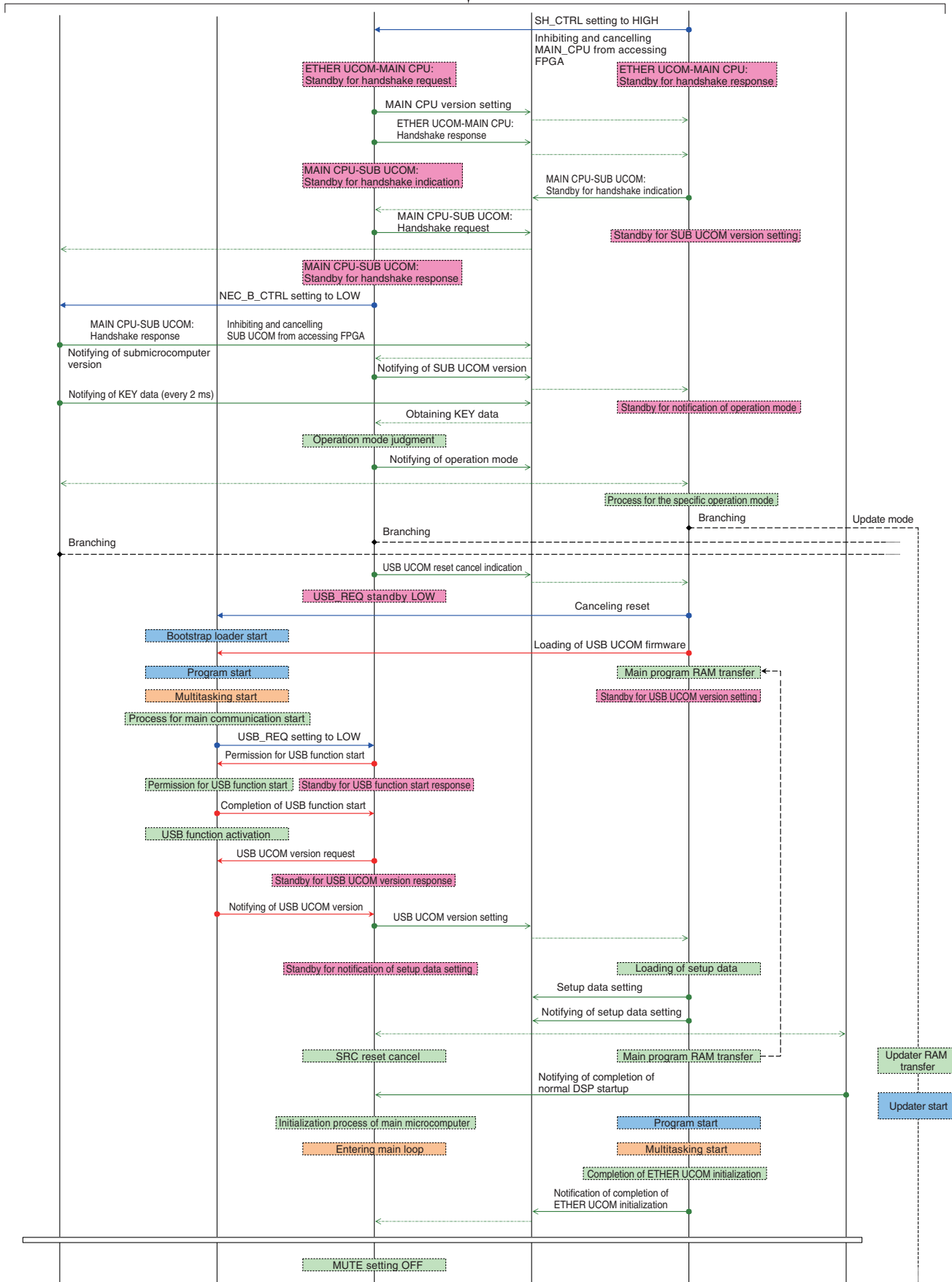
5.1 POWER ON SEQUENCE

Sequece Diagram



(A)

A



A

B

C

D

E

F

5.2 TROUBLESHOOTING

A Contents

[0] Prior Confirmation

[0-1] Checking Internal Cables

[1] Failure in Startup

[1-1] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) button does not flash.

[1-2] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) button flashes once.

[1-3] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes three times.

[1-4] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes five times.

[1-5] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes six times.

[1-6] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes seven times.

[1-7] The unit does not turn on, and the LED flashes endlessly.

[2] AUDIO INPUT

[2-1] No signal is input to the CD/LINE, PHONO connectors.

[2-2] No signal is input to the DIGITAL connector.

[2-3] No signal is input to the MIC1/MIC2 connectors.

[2-4] No signal is input to the RETURN connector.

[3] AUDIO OUTPUT

[3-1] No signal is output from the MASTER1/MASTER2 connectors.

[3-2] No signal is output from the REC connector.

[3-3] No signal is output from the BOOTH connector.

[3-4] No signal is output from the SEND connector.

[3-5] No signal is output from the PHONES connector.

[3-6] No signal is output from the DIGITAL MASTER OUT connector.

[4] DVS

[4-1] No analog timecode signal input to the mixer.

[4-2] No signal is input to and output from the USB 1 to 4 connectors.

[5] FL

[5-1] The FL does not light.

[6] X-PAD

[6-1] Pressing on the JOG dial not be detected.

[6-2] The X-PAD LEDs not light.

[7] LAN

[7-1] No LAN communication.

D *Point to be checked – Assys are classified with prefix.

[1-**] MAIN Assy

[2-**] INPUT Assy

[3-**] SEND Assy

[4-**] PNLA Assy

[5-**] HPJK Assy

[6-**] POER SUPPLY Assy

E [0] Prior Confirmation

[0-1] Checking Internal Cables

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---|-------------------|---|--|--------------------------------|
| 1 | Disconnection, breakage, or loose connection of internal cables | Relevant part | Check that all the cables are securely connected. Check that there is no breakage in the cables. | Securely connect the cables. If a cable is broken, replace it. | 4.1 OVERALL CONNECTION DIAGRAM |

F

[1] Failure in Startup

[1-1] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) button does not flash.

A V+12STBY power failure or MAIN_CPU (IC2011) startup error may be suspected.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|------------------------------|--------------------------------|--|--|---|
| 1 | Power failure | MAIN Assy CN1202-1pin [1-1] | Check for the V+12STBY power. | <ul style="list-style-type: none"> If the V+12STBY power cannot be confirmed, go to [2]. If the V+12STBY power can be confirmed, go to [3]. | 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS |
| 2 | Power failure Wire defect | POWER SUPPLY P3-1pin [5-1] | Check for the V+12STBY power. | <ul style="list-style-type: none"> If the V+12STBY power can be confirmed, the wire DKP3901 may be defective. Replace it. If the V+12STBY power cannot be confirmed, the POWER SUPPLY Assy may be defective. Replace it. | |
| 3 | Power failure | MAIN Assy IC1404-4pin [1-3] | Check for the V+3R3E power. | <ul style="list-style-type: none"> If the V+3R3E power can be confirmed, go to [4]. If the V+3R3E power cannot be confirmed, the 3.3V REGULATOR (IC1404) block may be defective. Check for the status of soldering and replace it. | 10.41 WAVEFORMS MAIN ASSY [1-39] |
| 4 | RESET signal error | MAIN Assy R2023 [1-39] | Check for the CPU_RESET signal. | <ul style="list-style-type: none"> If an output signal can be confirmed, go to [5]. If an output signal cannot be confirmed, the RESET IC (IC2010) block may be defective. Check for the status of soldering and replace it. | |
| 5 | 20 MHz CLK error | MAIN Assy R2019 [1-40] | Check for the 20M_CLK signal. | <ul style="list-style-type: none"> If an output signal cannot be confirmed, the crystal (X2001) block may be defective. Check for the status of soldering and replace it. | 10.41 WAVEFORMS MAIN ASSY [1-40] |
| 6 | MAIN_CPU defective | MAIN Assy | If the symptom persists after the above corrections. | The MAIN CPU (IC2011) may be defective. Replace it. | — |

[1-2] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) button flashes once.

Communication error between the MAIN_CPU (IC2011) and DSP (IC701).

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---|---|---|---|---|
| 1 | DSP (IC701) does not start. Devices • DSP (IC701) • FLASH (IC703) • SDRAM (IC702) | MAIN Assy [POWER] L702 [1-55] L701 [1-56] L703 [1-57] R782 [1-58] [RESET] R671 [1-26] R674 [1-27] [CLK] R896 [1-59] | [POWER] V+3R3D_DSP V+1R2D_DSP V+1R2D_DPLL V+3R3D_DSP_MEM [RESET] DSP_RESET Check that the signal level of DFLASH_RST is High. [CLK] Check if the 24 MHz clock is input to 24.5M_CLK_DSP. | [POWER] If an error is detected, check for the power supply source on the power supply block diagram, and repair it if it has an error. [RESET] If the signal level is not High, check for the signal supply source of the RESET signal, and repair it if it has an error. [CLK] If no signal is input, check for the signal supply source of the CLK signal and repair it if it has an error. | [POWER] 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [RESET] 10.41 WAVEFORMS MAIN ASSY [1-26] [1-27] [CLK] 10.41 WAVEFORMS MAIN ASSY [1-59] |

[1-3] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes three times.

Communication error between MAIN_CPU (IC2011) and ETHER_ICOM (IC501).

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---|---|--|---|--|
| 1 | ETHER_UCOM (IC501) does not start. Devices • ETHER_UCOM (IC501) • FLASH (IC502) • SDRAM (IC503) | MAIN Assy [POWER] L502 [1-23] L501 [1-24] L503 [1-25] R613 [1-22] [RESET] R673 [1-43] [CLK] R2020 [1-41] | [POWER] Check that power at each point is normal. V+1R2D_LAN V+3R3D_LAN V+1R2D_LAN_PLL V+3R3D_LAN_MEM [RESET] Check that the signal level of SUB_SH_RESET is High. [CLK] Check if the 20 MHz clock is input to 20M_CLK_SH. | [POWER] If an error is detected, check for the power supply source on the power supply block diagram, and repair it if it has an error. [RESET] If the signal level is not High, check for the signal supply source of the RESET signal, and repair it if it has an error. [CLK] If no signal is input, check for the signal supply source of the CLK signal and repair it if it has an error. | [POWER] 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [RESET] 10.41 WAVEFORMS MAIN ASSY [1-43] [CLK] 10.41 WAVEFORMS MAIN ASSY [1-41] |
| 2 | FPGA (IC2214) configuration is not completed. Devices • FPGA (IC2214) • FLASH (IC502) | MAIN Assy [POWER] R2239 [1-50] R2268 [1-51] R2280 [1-52] [RESET] R717 [1-30] [CLK] R2304 [1-53] [Communication line] R2335 [1-54] | [POWER] V+3R3D_FPGA V+1R2D_FPGA V+3R3D_FPGA_AUX [RESET] Check that the signal level of SH_FPGA_RST_X is High. [CLK] Check if the 20 MHz clock is input to 24M_CLK_FPGA. [Communication line] Check that the signal level of SH_FPGA_DONE is High. | [POWER] If an error is detected, check for the power supply source on the power supply block diagram, and repair it if it has an error. [RESET] If the signal level is not High, check for the signal supply source of the RESET signal, and repair it if it has an error. [CLK] If no signal is input, check for the signal supply source of the CLK signal and repair it if it has an error. | [POWER] 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [RESET] 10.41 WAVEFORMS MAIN ASSY [1-30] [CLK] 10.41 WAVEFORMS MAIN ASSY [1-53] [Communication line] 10.41 WAVEFORMS MAIN ASSY [1-54] |

A

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---|---|---|---|--|
| 3 | DSP (IC701) does not start. Devices • DSP (IC701) • FLASH (IC703) • SDRAM (IC702) | MAIN Assy [POWER] L702 (1-55) L701 (1-56) L703 (1-57) R782 (1-58) [RESET] R671 (1-26) R674 (1-27) [CLK] R896 (1-59) | [POWER] V+3R3D_DSP V+1R2D_DSP V+1R2D_DPLL V+3R3D_DSP_MEM [RESET] DSP_RESET Check that the signal level of DFLASH_RST is High. [CLK] Check if the 24 MHz clock is input to 24.5M_CLK_DSP. | [POWER] If an error is detected, check for the power supply source on the power supply block diagram, and repair it if it has an error. [RESET] If the signal level is not High, check for the signal supply source of the RESET signal, and repair it if it has an error. [CLK] If no signal is input, check for the signal supply source of the CLK signal and repair it if it has an error. | [POWER] 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [RESET] 10.41 WAVEFORMS MAIN ASSY (1-26) (1-27) [CLK] 10.41 WAVEFORMS MAIN ASSY (1-59) |

B

[1-4] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes five times.

Communication error between MAIN_CPU (IC2011) and SUB_UCOM (IC6601).

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---|--|--|---|---|
| 1 | SUB_UCOM (IC6601) does not start. Devices • SUB_UCOM (IC6601) | PNLB Assy [POWER] R6615 (4-19) [RESET] R6611 (4-17) [CLK] X6601 (4-18) | [POWER] V+3R3D_PA [RESET] Check that the signal level of SUB_CPU_RESET is High. [CLK] Check if the 20 MHz clock is input. As the drive circuit is in an IC, a normal waveform check cannot be performed. Simply check whether or not it oscillates. | [POWER] If an error is detected, check for the power supply source on the power supply block diagram, and repair it if it has an error. [RESET] If the signal level is not High, check for the signal supply source of the RESET signal, and repair it if it has an error. [CLK] If no signal is input, check for the signal supply source of the CLK signal and repair it if it has an error. | [POWER] 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [RESET] 10.41 WAVEFORMS PNLB ASSY (4-17) [CLK] 10.41 WAVEFORMS PNLB ASSY (4-18) |

C

[1-5] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes six times.

Communication error between MAIN_CPU (IC2011) and USB_UCOM (IC1801).

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---|--|--|---|---|
| 1 | USB_UCOM (IC1801) does not start. Devices • USB_UCOM (IC1801) • SDRAM (IC1802) | MAIN Assy [POWER] L1802 (1-31) L1801 (1-32) R1806 (1-33) R1817 (1-34) [RESET] C1831 (1-36) [CLK] R2304 (1-35) | [POWER] V+1R2D_USB V+3R3D_USB V+3R3D_USB_MEM V+2R5D_USB_PLL [RESET] Check that the signal level of USB_RESET is High. [CLK] Check if the 24 MHz clock is input to 24M_CLK_USB. | [POWER] If an error is detected, check for the power supply source on the power supply block diagram, and repair it if it has an error. [RESET] If the signal level is not High, check for the signal supply source of the RESET signal, and repair it if it has an error. [CLK] If no signal is input, check for the signal supply source of the CLK signal and repair it if it has an error. | [POWER] 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [RESET] 10.41 WAVEFORMS MAIN ASSY (1-36) [CLK] 10.41 WAVEFORMS MAIN ASSY (1-35) |

D

[1-6] The unit does not turn on, and the LED of the LFO FORM (WAKE UP) flashes seven times.

Communication error between MAIN_CPU (IC2011) and DIT (IC2405).

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-------------------|--|--|---|---|
| 1 | Power Signal line | MAIN Assy [POWER] R2425 (1-73) [RESET] C2411 (1-69) [CLK] R2409 (1-68) | [POWER] Check for the voltage of the V+3R3D_DIT power. [RESET] Check that the signal level of DIT_RESET is High. [CLK] Check that 24M_CLK is input. | [POWER] If an error is detected, check for the power supply source on the power supply block diagram, and repair it if it has an error. [RESET] If the signal level is not High, check for the signal supply source of the RESET signal, and repair it if it has an error. [CLK] If no signal is input, check for the signal supply source of the CLK signal and repair it if it has an error. | [POWER] 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [RESET] 10.41 WAVEFORMS MAIN ASSY (1-69) [CLK] 10.41 WAVEFORMS MAIN ASSY (1-68) |
| 2 | Defective part | MAIN Assy DIT (IC2405) | If the symptom persists after the above corrections. | DIT (IC2405) may be defective. Replace it. | — |

E

[1-7] The unit does not turn on, and the LED flashes endlessly.

The unit is shut down in error by the Power Monitoring Circuit.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---------------|---------------------------------------|--|-----------------------------|--------------------------------|
| 1 | Power failure | See "5.4 VOLTAGE MONITORING CIRCUIT." | Check for power at each point, following "5.4 VOLTAGE MONITORING CIRCUIT." | Repair the defective parts. | 5.4 VOLTAGE MONITORING CIRCUIT |

F

[2] AUDIO INPUT

[2-1] No signal is input to the CD/LINE, PHONO connectors.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|--|--|--|---|
| | Prior Confirmation | DIGITAL, CD/LINE, PHONO, LINE, USB */* selector/TRIM | Confirm on the screen that the selector is set properly. | | Operating instructions |
| 1 | Loose connection /defective parts | INPUT Assy IC4408/IC4808/ IC5208/IC5608 6 pin Representative CH1 [2-32] | [Checking the Audio Timecode select block] Check that the TC_SEL* signal level is Low. | <ul style="list-style-type: none"> If it is low, go to [2]. If it is high, check for loose connection with the MAIN Assy, improper part-mounting status for communication, or improper mounting status of the MAIN CPU. If no problem is still found, the MAIN CPU (IC201) may be defective. Replace it. | 10.41 WAVEFORMS INPUT ASSY [2-32] |
| 2 | Loose connection /defective parts | INPUT Assy IC4406(CH1) IC4806(CH2) IC5206(CH3) IC5606(CH4) 16, 17, 20, 21 pin Representative CH1_R- [2-20] /CH1_R+ [2-21] | [Checking the ADC block] 10.41 WAVEFORMS INPUT ASSY [2-32] Check for an audio signal at the input connector of ADC. | <p>If no audio signal is input to ADC, a problem in an analog circuit at a previous stage may be suspected.</p> <ul style="list-style-type: none"> If no audio signal is input, go to [5]. If an audio signal is input, go to [3]. | 10.41 WAVEFORMS INPUT ASSY [2-20] [2-21] |
| 3 | Loose connection /defective parts | INPUT Assy IC4406(CH1) IC4806(CH2) IC5206(CH3) IC5606(CH4) - 1 pin Representative CH1 [2-22] | Check for the RESET signal of ADC. | <ul style="list-style-type: none"> If the RESET signal level is L, go to [9]. If the RESET signal level is H, go to [4]. | 10.41 WAVEFORMS INPUT ASSY [2-22] |
| 4 | Loose connection /defective parts | INPUT Assy IC4406(CH1) IC4806(CH2) IC5206(CH3) IC5606(CH4) LRCK: 3 pin Representative [2-23] BCLK: 4 pin Representative [2-24] MCLK: 5 pin Representative [2-25] | 10.41 WAVEFORMS INPUT ASSY [2-32] Check for the CLK signal of ADC. | <ul style="list-style-type: none"> If no CLK signal is input, go to [11]. If the CLK signal is input, ADC must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY [2-23] [2-24] [2-25] |
| 5 | Loose connection /defective parts | INPUT Assy IC4402(CH1) IC4802(CH2) IC5202(CH3) IC5602(CH4) Input: 2, 3, 5, 6 pin Representative CH1 [2-18] after TRIM Output: 1, 7 pin Representative CH1 R [2-19] | [Checking an Intermediate Buffer block] Check for the signal input to and output from the Intermediate Buffer block. | <ul style="list-style-type: none"> If a signal is input but not output, this block must be improperly soldered or defective. If no signal is input, go to [6]. | 10.41 WAVEFORMS INPUT ASSY [2-18] [2-19] |
| 6 | Loose connection /defective parts | INPUT Assy CN4201(CH1) CN4601(CH2) CN5001(CH3) CN5401(CH4) 1 pin, 3 pin, 5 pin, 7 pin Representative CH1 R [2-17] [2-18] | [Checking the TRIM] Check for an audio signal at the periphery of TRIM. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of TRIM, check for the mounting status or soldering status of TRIM. If no problem is found, replace the TRIM Assy. If there is no signal before TRIM, go to [7]. | 10.41 WAVEFORMS INPUT ASSY [2-17] [2-18] |
| 7 | Loose connection /defective parts | INPUT Assy IC4201(CH1 PHONO) IC4202(CH1 LINE) IC4601(CH2 CD) IC4602(CH2 LINE) IC5001(CH3 CD) IC5002(CH3 LINE) IC5401(CH4 PHONO) IC5402(CH4 CD) 1 pin, 7 pin Representative CH1 LINE R [2-16] | [Checking the Input Buffer block] Check if an audio signal is output from the operation amplifier. | <ul style="list-style-type: none"> If no signal is output, this block must be improperly soldered or defective. If an audio signal is output, go to [8]. | 10.41 WAVEFORMS INPUT ASSY [2-16] |

A

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|--|---|--|---|
| 8 | Loose connection /defective parts | INPUT Assy/ MAIN Assy LINE_SEL* Representative LINE_SEL1 2-14 | [Checking the RELAY block] Check for the LINE_SEL* signal. If the input selector is set to PHONO, the LINE_SEL* signal level is H. If the input selector is set to CD/LINE, the LINE_SEL* signal level is L. | <ul style="list-style-type: none"> If a LINE_SEL* signal is not output properly, check for loose connection with the MAIN Assy, improper part mounting status for communication, or improper mounting of the MAIN CPU. If there is no problem, the MAIN CPU (IC2011) may be defective. Replace it. If a LINE_SEL* signal is output properly, this block must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY 2-14 |
| 9 | Loose connection /defective parts | INPUT Assy IC4009/IC4010 2 pin, 4 pin Representative RESET_IN 2-9 RESET_IN1 2-8 | [Checking the RESET signal path] Check for the RESET signal. | <ul style="list-style-type: none"> If the signal level at Pin 2 is H and that at Pin 4 is L, IC4009/IC4010 must be soldered improperly or defective. If the signal level at Pin 2 is L, go to [10]. | 10.41 WAVEFORMS INPUT ASSY 2-9 2-8 |
| 10 | Loose connection /defective parts | INPUT Assy IC4005 2 pin, 3 pin AD/DA_RESET 2-7 BCLK 2-12 | [Checking the RESET signal path] Check for the RESET signal. | <ul style="list-style-type: none"> If the signal level at Pin 2 is L, go to [12]. If the signal level at Pin 3 is not normal, check for BCLK in [13]. If the signal level at Pin 2 is H and that at Pin 3 is normal, IC4005 is soldered improperly or defective. | 10.41 WAVEFORMS INPUT ASSY 2-7 2-12 |
| 11 | Loose connection /defective parts | INPUT Assy LRCLK: IC4002/IC4006 BCLK: IC4003/IC4007 MCLK: IC4004/IC4008 2 pin, 4 pin Representative LRCLK_IN_2 2-6 LRCLK 2-13 BCLK_IN_2 2-3 BCLK 2-12 MCLK_IN_2 2-2 MCLK 2-11 | [Checking the CLK signal path] Check for the LRCLK, BCLK, and MCLK signals. | <ul style="list-style-type: none"> If the signal level at Pin 2 is normal and Pin 4 has no signal, IC4002/IC4006/IC4003/IC4007/IC4004 10.41 WAVEFORMS INPUT ASSY 2-18 2-19 /IC4008 must be improperly soldered or defective. If the signal at Pin 2 is not normal, go to [13]. | 10.41 WAVEFORMS INPUT ASSY 2-6 2-13 2-3 2-12 2-2 2-11 |
| 12 | Loose connection /defective parts | MAIN Assy R709 1-28 | [Checking the RESET signal path] Check for the RESET signal. | If no problem is found, ETHER UCOM (IC501) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-28 |
| 13 | Loose connection /defective parts | MAIN Assy LRCLK: IC2206 2,4 pin 1-44 1-49 BCLK: IC2209 2,4 pin 1-45 1-48 MCLK: IC2210 2,4 pin 1-46 1-47 | [Checking the CLK signal path] Check for the LRCLK, BCLK, and MCLK signals. | <ul style="list-style-type: none"> If the signal at Pin 2 is normal and Pin 4 has no signal, IC2206/IC2209/IC2210 must be improperly soldered or defective. If the signal at Pin 2 is not normal, FPGA (IC2214) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-44 1-49 1-45 1-48 1-46 1-47 |

B

C

D

[2-2] No signal is input to the DIGITAL connector.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|---|---|--|
| | Prior Confirmation | DIGITAL, CD/LINE, PHONO, LINE, USB */ selector/TRIM | Confirm on the screen that the selector is set properly. | | |
| 1 | Loose connection /defective parts | MAIN Assy IC101(CH1) IC201(CH2) IC301(CH3) IC401(CH4) -5 pin Representative CH1_SPDIF 1-6 | Check if a signal is input to DIGITAL properly. | If any of the signals is not input, IC101(CH1) /IC201(CH2)/IC301(CH3)/IC401(CH4) may be defective. | 10.41 WAVEFORMS MAIN ASSY 1-6 |
| 2 | Loose connection /defective parts | MAIN Assy IC110(CH1) IC202(CH2) IC302(CH3) IC402(CH4) -21 pin Representative DIR_RESET 1-11 | Check that the RESET signal level of the DIR is High. | <ul style="list-style-type: none"> If it is H, go to [3]. If it is L and IC504 has no problem, ETHER UCOM (IC501) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-11 |
| 3 | Loose connection /defective parts | MAIN Assy IC110(CH1) IC202(CH2) IC302(CH3) IC402(CH4) • LRCKO: 10 pin • BCKO: 11 pin • SCKO: 4 pin • DOUT: 12 pin Representative 1-8 1-9 1-7 1-10 | Check for the LRCKO, BCKO, SCKO, DOUT signal output from DIR. | <ul style="list-style-type: none"> If a signal is output, go to [4]. If any of the signals is not output, IC110(CH1) /IC202(CH2)/IC302(CH3)/IC402(CH4) may be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-8 1-9 1-7 1-10 |

E

F

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|--|--|---|---|
| 4 | Loose connection /defective parts | MAIN Assy IC111(CH1) IC203(CH2) IC303(CH3) IC403(CH4) -9 pin Representative ADATIN_SRC1 1-16 | Check for the digital audio signal at DIGI/USB SW. | <ul style="list-style-type: none"> If there is a signal, go to [6]. If there is no signal, go to [5]. | 10.41 WAVEFORMS MAIN ASSY 1-16 |
| 5 | Loose connection /defective parts | MAIN Assy IC111(CH1) IC203(CH2) IC303(CH3) IC403(CH4) -9 pin Representative DIGI_SEL1 1-12 | Check that the DIGI_SEL* signal level is Low. IC111(CH1)/IC203(CH2)/IC303(CH3)/ IC403(CH4) 1 pin | <ul style="list-style-type: none"> If it is L, but no signal is output, IC111(CH1) /IC203(CH2)/IC303(CH3)/IC403(CH4) must be improperly soldered or defective. If it is not L, MAIN CUP: IC2011 must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-12 |
| 6 | Loose connection /defective parts | MAIN Assy UDIN1 UDIN2 UDIN3 UDIN4 Test land Representative 1-17 | Check for the output signal at SRC. | <ul style="list-style-type: none"> If a signal is outout, DSP (IC701) must be improperly soldered or defective. If a signal I not output, go to [7]. | 10.41 WAVEFORMS MAIN ASSY 1-17 |
| 7 | Loose connection /defective parts | MAIN Assy IC113(CH1) IC205(CH2) IC305(CH3) IC405(CH4) 5 pin Representative 1-13 | Check that the CH*SRC_RESET signal level is High. | <ul style="list-style-type: none"> If it is L, Ether UCOM (IC501) must be improperly soldered or defective. If it is H, go to [8]. | 10.41 WAVEFORMS MAIN ASSY 1-13 |
| 8 | Loose connection /defective parts | MAIN Assy IC113(CH1) IC205(CH2) IC305(CH3) IC405(CH4) -7, 8 pin Representative 1-14 1-15 | Check for the CLK signal (ILRCK, ISCLK) at SRC. | <ul style="list-style-type: none"> If there is no CLK signal, IC111(CH1)/IC203(CH2)/IC303(CH3)/IC403(CH4) must be improperly soldered or defective. If there is a CLK signal, IC113(CH1)/IC205(CH2)/IC305(CH3)/IC405(CH4) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-14 1-15 |

[2-3] No signal is input to the MIC1/MIC2 connectors.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|--|---|
| | Prior Confirmation | OFF, ON, TALK OVER switch | Confirm on the screen that the selector is set properly. | | |
| 1 | Loose connection /defective parts | INPUT Assy IC6204 MIC1: 2 pin 2-41 MIC2: 1 pin 2-44 | Check for an audio signal at the input connector of the ADC. | <p>If no audio signal is input to the ADC, a problem in an analog circuit at a previous stage may be suspected.</p> <ul style="list-style-type: none"> If no signal is input, go to [2]. If a signal is input, go to [3]. | 10.41 WAVEFORMS INPUT ASSY 2-41 2-44 |
| 2 | Loose connection /defective parts | INPUT Assy VR6202 2-39 2-40 VR6201 2-42 2-43 | Check for an audio signal at the periphery of the TRIM. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of the TRIM, VR6202/VR6201 must be improperly soldered or defective. If there is no signal before the TRIM, the MIC1 /MIC2 AMP block must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY 2-39 2-40 2-42 2-43 |
| 3 | Loose connection /defective parts | INPUT Assy IC6204 13 pin 2-45 | Check for the RESET signal of the ADC. | <ul style="list-style-type: none"> If the signal level is L, go to [5]. If the signal level is H, go to [4]. | 10.41 WAVEFORMS INPUT ASSY 2-45 |
| 4 | Loose connection /defective parts | INPUT Assy LRCK: IC6204 10pi 2-48 BCLK: IC6204 12 pin 2-46 MCLK: IC6204 11 pin 2-47 | Check for the CLK signal of the ADC. • LRCK • BCLK • MCLK | <ul style="list-style-type: none"> If there is no CLK signal, go to [7]. If there is a CLK signal but no signal is output from the ADC, the ADC must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY 2-48 2-46 2-47 |
| 5 | Loose connection /defective parts | INPUT Assy IC4010 2 pin 2-9 4 pin 2-10 | Check for the RESET signal. | <ul style="list-style-type: none"> If the signal level at Pin 2 is H and that at Pin 4 is L, IC4010 must be improperly soldered or defective. If the signal level at Pin 2 is L, go to [6]. | 10.41 WAVEFORMS INPUT ASSY 2-9 2-10 |
| 6 | Loose connection /defective parts | INPUT Assy IC4005 2 pin, 3 pin 2-7 2-12 | Check for the RESET signal. | <ul style="list-style-type: none"> If the signal level at Pin 2 is L, go to [8]. If the signal level at Pin 3 is not normal, check for BCLK in [7]. If a signal at Pin 2 is H and that at Pin 3 is normal, IC4005 must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY 2-7 2-12 |

A

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|---|--|
| 7 | Loose connection /defective parts | INPUT Assy • LRCK: IC4006 2 pin [2-11], 4 pin [2-2] • BCLK: IC4007 2 pin [2-12], 4 pin [2-4] • MCLK: IC4008 2 pin [2-13], 4 pin [2-6] | Check for the LRCLK, BCLK, and MCLK signals. | <ul style="list-style-type: none"> If the signal at Pin 2 is normal and Pin 4 has no signal, IC4006/IC4007/IC4008 must be improperly soldered or defective. If the signal at Pin 2 is not normal, go to [9]. | 10.41 WAVEFORMS INPUT ASSY [2-11] [2-2] [2-12] [2-4] [2-13] [2-6] |
| 8 | Loose connection /defective parts | MAIN Assy R709 [1-28] | [Checking the RESET signal path] Check for the RESET signal. | <ul style="list-style-type: none"> If no problem with the signal is found, check for the cable connection with the MAIN Assy and the parts mounted along the communication line. If no problem is found, ETHER UCOM (IC501) may be improperly soldered. | 10.41 WAVEFORMS MAIN ASSY [1-28] |
| 9 | Loose connection /defective parts | MAIN Assy LRCLK: IC2206 2, 4 pin [1-44] [1-49] BCLK: IC2209 2, 4 pin [1-45] [1-48] MCLK: IC2210 2, 4 pin [1-46] [1-47] | [Checking the CLK signal path] Check for the LRCLK, BCLK, and MCLK signals. | <ul style="list-style-type: none"> If the signal at Pin 2 is normal and Pin 4 has no signal, IC2206/IC2209/IC2210 must be improperly soldered or defective. If a signal at Pin 2 is not normal, FPGA (IC2214) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY [1-44] [1-49] [1-45] [1-48] [1-46] [1-47] |

B

[2-4] No signal is input to the RETURN connector.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|---|--|
| | Prior Confirmation | DELAY, ECHO, SPIRAL, REVERB, TRANS, FILTER, FLANGER, PHASER, ROBOT, MELODIC, SLIP ROLL, ROLL, REV ROLL, SND/RTN (MIDI LFO) SW /EFFECT ON/OFF button | <ul style="list-style-type: none"> Check that the type for BEAT EFFECT is set to SND/RTN. Check that the BEAT EFFECT is set to ON. | | |
| 1 | Loose connection /defective parts | INPUT Assy CN4002 1 pin [2-15] | Check that the RETURN IN signal level is H. | <ul style="list-style-type: none"> If it is L, JA5801 must be improperly soldered or defective. If it is H, go to [2]. | 10.41 WAVEFORMS INPUT ASSY [2-15] |
| 2 | Loose connection /defective parts | INPUT Assy IC5802 1 pin [2-34], 2 pin [2-33] | Check for an audio signal at the input connector of the ADC. | <ul style="list-style-type: none"> If no audio signal is input to the ADC, a problem in an analog circuit at a previous stage may be suspected. If no signal is input, the Input Buffer block must be improperly soldered or defective. If a signal is input, go to [3]. | 10.41 WAVEFORMS INPUT ASSY [2-34] [2-33] |
| 3 | Loose connection /defective parts | INPUT Assy IC5802 13 pin [2-35] | Check for the RESET signal of the ADC. | <ul style="list-style-type: none"> If the signal level is L, go to [5]. If the signal level is H, go to [4]. | 10.41 WAVEFORMS INPUT ASSY [2-35] |
| 4 | Loose connection /defective parts | INPUT Assy • LRCK: IC5802 10 pin [2-38] • BCLK: IC5802 12 pin [2-36] • MCLK: IC5802 11 pin [2-37] | Check for the CLK signal of the ADC. LRCK, BCLK, MCLK | <ul style="list-style-type: none"> If there is no signal, go to [7]. If there is a CLK signal but no signal is output from the ADC, the ADC must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY [2-38] [2-36] [2-37] |
| 5 | Loose connection /defective parts | INPUT Assy IC4009 2 pin [2-9], 4 pin [2-8] RESET_IN1 | Check for Pins 2 and 4 of IC4009. | <ul style="list-style-type: none"> If a signal at Pin 2 is H and that at Pin 4 is L, IC4009 must be improperly soldered or defective. If the signal level at Pin 2 is L, go to [6]. | 10.41 WAVEFORMS INPUT ASSY [2-9] [2-8] |
| 6 | Loose connection /defective parts | INPUT Assy IC4005 2 pin, 3 pin [2-7] [2-12] | Check for Pins 2 and 3 of IC4005. | <ul style="list-style-type: none"> If the signal level at Pin 2 is L, go to [8]. If a signal at Pin 3 is not normal, check for BCLK in [7]. If the signal level at Pin 2 is H and that at Pin 3 is normal, IC4005 must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY [2-7] [2-12] |
| 7 | Loose connection /defective parts | INPUT Assy • LRCK: IC4002 2 pin [2-11], 4 pin [2-1] • BCLK: IC4003 2 pin [2-12], 4 pin [2-3] • MCLK: IC4004 2 pin [2-13], 4 pin [2-5] | Check for the LRCLK, BCLK, and MCLK signals. | <ul style="list-style-type: none"> If a signal at Pin 2 is normal and Pin 4 has no signal, IC4002/IC4003/IC4004 must be improperly soldered or defective. If a signal at Pin 2 is not normal, go to [9]. | 10.41 WAVEFORMS INPUT ASSY [2-11] [2-1] [2-12] [2-3] [2-13] [2-5] |
| 8 | Loose connection /defective parts | MAIN Assy R709 [1-28] | [Checking the RESET signal path] Check for the RESET signal. | <ul style="list-style-type: none"> If no problem with the signal is found, check for the cable connection with the MAIN Assy and the parts mounted along the communication line. If no problem is found, ETHER UCOM (IC501) may be improperly soldered. | 10.41 WAVEFORMS MAIN ASSY [1-28] |

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| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|---|---|
| 9 | Loose connection /defective parts | MAIN Assy LRCLK: IC2206 2,4 pin (1-44) (1-49) BCLK: IC2209 2,4 pin (1-45) (1-48) MCLK: IC2210 2,4 pin (1-46) (1-47) | [Checking the CLK signal path] Check for the LRCLK, BCLK, and MCLK signals. | <ul style="list-style-type: none"> If the signal at Pin 2 is normal and Pin 4 has no signal, IC2206/IC2209/IC2210 must be improperly soldered or defective. If a signal at Pin 2 is not normal, FPGA (IC2214) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY (1-44) (1-49) (1-45) (1-48) (1-46) (1-47) |

[3] AUDIO OUTPUT

[3-1] No signal is output from the MASTER1/MASTER2 connectors.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|--|--|--|--|
| 1 | Prior Confirmation | MASTER1 / MASTER2 | Identify the connector(s) that do(es) not output signals. | <ul style="list-style-type: none"> If neither MASTER 1 nor 2 connector outputs, go to [2]. If only the MASTER 1 connector does not output, go to [11]. If only the MASTER2 connector does not output, go to [13]. | |
| 2 | Loose connection /defective parts | MAIN Assy IC2802-10,11,20, 21 pin (1-92) (1-93) (1-90) (1-91) IC2803 1,7 pin (1-94) (1-95) /IC2804-1,7 pin (1-96) (1-97) | [Checking the Shaping Noise Filter] Check for the DAC differential audio signal output. | <ul style="list-style-type: none"> If a signal is output from the DAC output (Pins 10, 11, 20, and 21 of IC2802) but no signal is output from Pins 1 and 7 of IC2803/IC2804, the Shaping Noise Filter block must be improperly soldered or defective. If no signal is output from the DAC output (Pins 10, 11, 20, and 21 of IC2802), go to [3]. | 10.41 WAVEFORMS MAIN ASSY (1-92) (1-93) (1-90) (1-91) (1-94) (1-95) (1-96) (1-97) |
| 3 | Loose connection /defective parts | MAIN Assy IC2802-29 pin (1-89) | Check that a signal is output from the ADAT_MASTER_OUT. | <ul style="list-style-type: none"> If no signal is output, the DSP(IC701) must be improperly soldered or defective. If a signal is output, go to [4]. | 10.41 WAVEFORMS MAIN ASSY (1-89) |
| 4 | Loose connection /defective parts | MAIN Assy IC2802-1 pin (1-84) | Check that the MVR_MUTE_OUT signal level is Low. | <ul style="list-style-type: none"> If it is H, failure of the PNL A may be suspected. Check for the MASTER LEVEL operation in test mode. If it is L, go to [5]. | 10.41 WAVEFORMS MAIN ASSY (1-84) |
| 5 | Loose connection /defective parts | MAIN Assy IC2802-27 pin (1-85) | Check that the RESET_OUT signal level is High. | <ul style="list-style-type: none"> If it is H, go to [8]. If it is L, go to [6]. | 10.41 WAVEFORMS MAIN ASSY (1-85) |
| 6 | Loose connection /defective parts | MAIN Assy IC2601-2,4 pin (1-78) (1-82) | Check for the RESET_OUT signal. | <ul style="list-style-type: none"> If a signal level at Pin 2 is H and that at Pin 4 is L, IC2601 must be improperly soldered or defective. If the signal level at Pin 2 is L, go to [7]. | 10.41 WAVEFORMS MAIN ASSY (1-78) (1-82) |
| 7 | Loose connection /defective parts | MAIN Assy R709 (1-28) | Check for the mounting status of the RESET signal line R709. | <ul style="list-style-type: none"> If no problem is found, ETHER UCOM (IC501) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY (1-28) |
| 8 | Loose connection /defective parts | MAIN Assy IC2802 LRCLK 30 pin BCLK 28 pin MCLK 24 pin (1-88) (1-87) (1-86) | Check for the CLK signal of IC2802. LRCK, BCLK, MCLK | <ul style="list-style-type: none"> If [3], [4], [5], and [8] are normal but a signal is not output from the DAC (Pins 10, 11, 20, and 21 of IC2802), IC2802 must be improperly soldered or defective. If no CLK signal is found, go to [9]. | 10.41 WAVEFORMS MAIN ASSY (1-88) (1-87) (1-86) |
| 9 | Loose connection /defective parts | MAIN Assy LRCK: IC2604 2,4 pin (1-77) (1-81) BCLK: IC2603 2,4 pin (1-76) (1-80) MCLK: IC2602 2,4 pin (1-75) (1-79) | Check for Pins 2 and 4 of LRCK: IC2604 BCLK: IC2603 MCLK: IC2602 | <ul style="list-style-type: none"> If the signal at Pin 2 is normal and Pin 4 has no signal, IC2604/IC2603/IC2602 must be improperly soldered or defective. If a signal at Pin 2 is not normal, go to [10]. | 10.41 WAVEFORMS MAIN ASSY (1-77) (1-81) (1-76) (1-80) (1-75) (1-79) |
| 10 | Loose connection /defective parts | MAIN Assy LRCK: IC2205 2,4 pin (1-49) (1-44) BCLK: IC2207 2,4 pin (1-48) (1-45) MCLK: IC2208 2,4 pin (1-47) (1-46) | Check for Pins 2 and 4 of LRCK: IC2205 BCLK: IC2207 MCLK: IC2208 | <ul style="list-style-type: none"> If the signal at Pin 2 is normal and Pin 4 has no signal, IC2205/IC2207/IC2208 must be improperly soldered or defective. If a signal at Pin 2 is not normal, FPGA (IC2214) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY (1-49) (1-44) (1-48) (1-45) (1-47) (1-46) |
| 11 | Loose connection /defective parts | MAIN Assy IC2806-1,7 pin (1-98) (1-99) IC2805-1,7 pin (1-100) (1-101) | Check for the Balanced Output AMP. | <ul style="list-style-type: none"> If no signal is output, IC2806/IC2805 must be improperly soldered or defective. If a signal is output, go to [12]. | 10.41 WAVEFORMS MAIN ASSY (1-98) (1-99) (1-100) (1-101) |
| 12 | Loose connection /defective parts | MAIN Assy MUTE_M1 (1-102) | Check that the MUTE_M1 (test land) signal level is Low. | <ul style="list-style-type: none"> If it is H, Q2836/Q2837 must be improperly soldered or defective. If a CPU_MUTE_OUT signal is not output properly, go to [13]. If it is L, RY2801/RY2802 must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY (1-102) |

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| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|-----------------------------------|--|---|---|
| 13 | Loose connection /defective parts | MAIN Assy IC2011 86 pin (1-38) | Check that the signal level at Pin 86 of CPU_MUTE: MAIN_CPU (IC2011) is Low. | <ul style="list-style-type: none"> If it is H, IC2011 must be improperly soldered or defective. If it is L, Q2001/R2014/R2608 must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY (1-38) |
| 14 | Loose connection /defective parts | MAIN Assy MUTE_O (1-83) | [No audio output from the MASTER2] Check that the MUTE_OUT signal level is Low. | <ul style="list-style-type: none"> If it is L, Q3007/Q3008 must be improperly soldered or defective. If it is H, Q2601/Q2602/Q2603 must be improperly soldered or defective. If the CPU_MUTE signal is not supplied properly, go to [13]. | 10.41 WAVEFORMS MAIN ASSY (1-83) |
| 15 | Loose connection /defective parts | MAIN Assy (1-108) (1-109) | [No audio output from the MASTER2] Check the signal at the MASTER2_L/ MASTER2_R (test land). | <ul style="list-style-type: none"> If no signal is found, the Bal -> Unbal AMP block must be improperly soldered or defective. If there is a signal but no final output signal, the Output AMP block must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY (1-108) (1-109) |

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[3-2] No signal is output from the REC connector.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|---|--|
| 1 | Loose connection /defective parts | MAIN Assy MUTE_O (1-83) | Check that the MUTE_OUT signal level is Low. | <ul style="list-style-type: none"> If it is L, Q3005/Q3006 must be improperly soldered or defective. If it is H, Q2601/Q2602/Q2603 must be improperly soldered or defective. If the CPU_MUTE signal level is not L, go to [13] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY (1-83) |
| 2 | Loose connection /defective parts | MAIN Assy AOUTL_REC AOUTR_REC REC_L REC_R (1-110) (1-111) (1-112) (1-113) | Check the audio signals input to and output from IC3003. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of IC3003, IC3003 or peripheral parts must be improperly soldered or defective. If no signal is input to IC3003, go to [3]. | 10.41 WAVEFORMS MAIN ASSY (1-110) (1-111) (1-112) (1-113) |
| 3 | Loose connection /defective parts | MAIN Assy IC3001 3 pin (1-105) | Check that a signal is supplied to the ADAT_REC_OUT. | <ul style="list-style-type: none"> If no signal is found, DSP(IC701) must be improperly soldered or defective. If a signal is found, go to [4]. | 10.41 WAVEFORMS MAIN ASSY (1-105) |
| 4 | Loose connection /defective parts | MAIN Assy IC3001 5 pin (1-107) | Check that the RESET_OUT signal level is High. | <ul style="list-style-type: none"> If it is H, go to [5]. If it is L, go to [6] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY (1-107) |
| 5 | Loose connection /defective parts | MAIN Assy IC3001 LRCK: 4 pin BCLK: 2 pin MCLK: 1 pin (1-106) (1-104) (1-103) | Check for the CLK signal of the IC3001. | <ul style="list-style-type: none"> If [3], [4], and [5] are normal but a signal is not output from the DAC (Pins 10 and 11 of IC3001), IC3001 must be improperly soldered or defective. If a CLK signal is not found, go to [9] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY (1-106) (1-104) (1-103) |

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[3-3] No signal is output from the BOOTH connector.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|---|--|--|
| 1 | Loose connection /defective parts | MAIN Assy MUTE_O (1-83) | Check that the MUTE_OUT signal level is Low. | <ul style="list-style-type: none"> If it is L, Q3205/Q3206/Q3207/Q3208 must be improperly soldered or defective. If it is H, Q2601/Q2602/Q2603 must be improperly soldered or defective. If the CPU_MUTE signal level is not L, go to [13] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY (1-83) |
| 2 | Loose connection /defective parts | MAIN Assy IC3203 (1-123) (1-124) (1-127) (1-128) IC3204 (1-125) (1-126) (1-129) (1-130) | Check the audio signals input to and output from IC3203/IC3204. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of IC3203/IC3204, IC3203/IC3204 or peripheral parts must be improperly soldered or defective. If no signal is input to IC3203/IC3204, go to [3]. | 10.41 WAVEFORMS MAIN ASSY (1-123) (1-124) (1-127) (1-128) (1-125) (1-126) (1-129) (1-130) |

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| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|---|---|--|
| 3 | Loose connection /defective parts | MAIN Assy IC3202 1-119 1-120 1-123 1-124 IC3205 1-121 1-122 1-125 1-126 | Check the audio signals input to and output from IC3202/IC3205. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of IC3202/IC3205, IC3202/IC3205 or peripheral parts must be improperly soldered or defective. If no signal is input to IC3202/IC3205, go to [4]. | 10.41 WAVEFORMS MAIN ASSY 1-119 1-120 1-123 1-124 1-121 1-122 1-125 1-126 |
| 4 | Loose connection /defective parts | MAIN Assy IC3201-3 pin 1-116 | Check that a signal is supplied to the ADAT_BOOTH_OUT. | <ul style="list-style-type: none"> If no signal is found, DSP(IC701) must be improperly soldered or defective. If a signal is found, go to [5]. | 10.41 WAVEFORMS MAIN ASSY 1-116 |
| 5 | Loose connection /defective parts | MAIN Assy IC3201-5 pin 1-118 | Check that the RESET_OUT signal level is High. | <ul style="list-style-type: none"> If a signal level is High, go to [6] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY 1-118 |
| 6 | Loose connection /defective parts | MAIN Assy IC3201 LRCK: 4 pin 1-117 BCLK: 2 pin 1-115 MCLK: 1 pin 1-114 | Check for the CLK signal of the IC3001. LRCK, BCLK, MCLK | <ul style="list-style-type: none"> If a CLK signal is not found, go to [9] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY 1-117 1-115 1-114 |

[3-4] No signal is output from the SEND connector.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|--|--|--|--|
| 1 | Loose connection /defective parts | MAIN Assy CN1003/ SEND Assy CN6401 | Check the connection status of CN1003/ CN6401. | | |
| 2 | Loose connection /defective parts | MAIN Assy / SEND Assy MUTE_OUT MUTE_O 1-83 | Check that the MUTE_OUT signal level is Low. | <ul style="list-style-type: none"> If it is L, Q6403/Q6404 must be improperly soldered or defective. If it is H, Q2601/Q2602/Q2603 must be improperly soldered or defective. If the CPU_MUTE signal level is not L, go to [13] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY 1-83 |
| 3 | Loose connection /defective parts | SEND Assy IC6402 3-6 3-7 3-8 3-9 | Check the audio signals input to and output from IC6402. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of IC6402, IC6402 or peripheral parts must be improperly soldered or defective. If no signal is input to IC6402, go to [4]. | 10.41 WAVEFORMS SEND ASSY 3-6 3-7 3-8 3-9 |
| 4 | Loose connection /defective parts | SEND Assy IC6401-3 pin 3-4 | Check that a signal is supplied to the ADAT_SEND_OUT. | <ul style="list-style-type: none"> If no signal is found, DSP(IC701) must be improperly soldered or defective. If a signal is found, go to [5]. | 10.41 WAVEFORMS SEND ASSY 3-4 |
| 5 | Loose connection /defective parts | SEND Assy IC6401 5 pin | Check that the RESET_OUT signal level is High. | <ul style="list-style-type: none"> If it is H, go to [6]. If it is L, check for R709. If no problem is found, ETHER UCOM (IC501) must be improperly soldered or defective. | |
| 6 | Loose connection /defective parts | SEND Assy LRCK: 4 pin 3-3 BCLK: 2 pin 3-2 MCLK: 1 pin 3-1 | Check for the CLK signal of the IC6401. | <ul style="list-style-type: none"> If a CLK signal is not found, go to [9] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS SEND ASSY 3-3 3-2 3-1 |

[3-5] No signal is output from the PHONES connector.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|---|--|---|
| 1 | Loose connection /defective parts | MAIN Assy / HPJK Assy | Check for the connection between the MAIN Assy and HPJK Assy. | Correct any power connections. | |
| 2 | Loose connection /defective parts | HPJK Assy CN9201-1 pin, 4 pin 5-1 5-2 | Check for the signals at Pins 1 and 4 of CN9201. | <ul style="list-style-type: none"> If a signal is found, the HPJK ASSY or wires are defective. Replace them. If no signal is found, go to [3]. | 10.41 WAVEFORMS HPJK ASSY 5-1 5-2 |
| 3 | Loose connection /defective parts | MAIN Assy RY3401-3 pin, 8 pin 1-144 1-145 | Check for the signals at Pins 3 and 8 of RY3401. | <ul style="list-style-type: none"> If a signal is found, go to [3]. If no signal is found, go to [5]. | 10.41 WAVEFORMS MAIN ASSY 1-144 1-145 |
| 4 | Loose connection /defective parts | MAIN Assy CPU_MUTE 1-38 | Check that the CPU_MUTE signal level is High. | <ul style="list-style-type: none"> If it is H, Q3409 must be improperly soldered or defective. If the CPU_MUTE signal is not supplied properly, go to [13] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. If no problem is found, RY3401 must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-38 |

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| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|--|--|
| 5 | Loose connection /defective parts | MAIN Assy IC3406 HP_L1/HP_L2 1-140 1-142 HP_R1/HP_R2 1-141 1-143 | Check the audio signals input to and output from IC3406. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of IC3406, IC3406 or peripheral parts must be improperly soldered or defective. If no signal is input to IC3406, go to [6]. | 10.41 WAVEFORMS MAIN ASSY 1-140 1-142 1-141 1-143 |
| 6 | Loose connection /defective parts | MAIN Assy IC3405 HP_L+/L-/L1 1-136 1-137 1-140 HP_R+/R-/R1 1-139 1-138 1-141 | Check the audio signals input to and output from IC3405. | <ul style="list-style-type: none"> If a signal is interrupted at the periphery of IC3405, IC3405 or peripheral parts must be improperly soldered or defective. If no signal is input to IC3405, go to [7]. | 10.41 WAVEFORMS MAIN ASSY 1-136 1-137 1-140 1-139 1-138 1-141 |
| 7 | Loose connection /defective parts | MAIN Assy IC3404-3 pin 1-131 | Check that a signal is supplied to the ADAT_HP. | <ul style="list-style-type: none"> If no signal is found, DSP(IC701) must be improperly soldered or defective. If a signal is found, go to [8]. | 10.41 WAVEFORMS MAIN ASSY 1-131 |
| 8 | Loose connection /defective parts | MAIN Assy IC3404-5 pin 1-132 | Check that the DIR_ADC_DAC_RESET signal level is High. | <ul style="list-style-type: none"> If it is H, go to [9]. If it is L, check for R709. If no problem is found, ETHER UCOM (IC501) must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-132 |
| 9 | Loose connection /defective parts | MAIN Assy LRCK: IC3201-4 pin 1-135 BCLK: IC3201-2 pin 1-134 MCLK: IC3201-1 pin 1-133 | Check for the CLK signal of the IC3404. | <ul style="list-style-type: none"> If a CLK signal is not found, go to [9] of [3-1] No signal is output from the MASTER1/MASTER2 connectors. | 10.41 WAVEFORMS MAIN ASSY 1-135 1-134 1-133 |

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C

[3-6] No signal is output from the DIGITAL MASTER OUT connector.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|---|---|--|
| 1 | Loose connection /defective parts | MAIN Assy IC2405-16 pin 1-74 | Check for the signal at Pin 16 of DIT (IC2405). | <ul style="list-style-type: none"> If a signal is output, parts between IC2405 and JA2401 must be improperly soldered or defective. If no signal is output, go to [2]. | 10.41 WAVEFORMS MAIN ASSY 1-74 |
| 2 | Loose connection /defective parts | MAIN Assy DIT_RESET: 31 pin 1-69 LRCK_DOUT: 24 pin 1-71 BCLK_DOUT: 26 pin 1-72 DAUX: 28 pin XTI: 30 pin DIT_TXD: 33 pin 1-65 DIT_SCK: 34 pin 1-66 DITD_CS: 35 pin 1-67 | <p>Check for input signal at each points of IC2405.</p> <ul style="list-style-type: none"> A signal level at Pin 31 of the DIT_RESET must be High. LRCK_DOUT: 24 pin BCLK_DOUT: 26 pin DAUX: 28 pin XTI: 30 pin DIT_TXD: 33 pin DIT_SCK: 34 pin DITD_CS: 35 pin | <ul style="list-style-type: none"> If Pin 31 of DIT_RESET is not High, check for R710. If no problem is found, Ether UCOM (IC501) must be improperly soldered or defective. If the signals at Pin 24 of LRCK, Pin 26 of BCLK, and Pin 28 of DAUX are not normal, go to [3]. If the signal at Pin 30 of XTI is not normal and no problem is found on IC2403, FPGA (IC2214) must be improperly soldered or defective. If signals at Pin 33 of the DIT_TXD, Pin 34 of the DIT_SCK, and Pin 35 of the DITD_CS are not normal, MAIN UCOM (IC2011) must be improperly soldered or defective. If both are normal and no signal is detected at Pin 16 of IC2405, IC2405 must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-69 1-71 1-72 1-70 1-68 1-65 1-66 1-67 |
| 3 | Loose connection /defective parts | MAIN Assy DOUT_SRC_RESET: 5 pin 1-63 SRC_LRCK: 7 pin 1-61 SRC_BCLK: 8 pin 1-62 ADAT_DOUT: 9 pin 1-60 MS_SEL: 15 pin 1-64 | <p>Check for input signal at each points of DOUT SRC (IC2404).</p> <ul style="list-style-type: none"> A signal level at Pin 5 of the DOUT_SRC_RESET must be High. SRC_LRCK: 7 pin SRC_BCLK: 8 pin ADAT_DOUT: 9 pin MS_SEL: 15 pin | <ul style="list-style-type: none"> If Pin 5 of DOUT_SRC_RESET is not High, check for R708. If no problem is found, Ether UCOM (IC501) must be improperly soldered or defective. If the signals at Pin 7 of the LRCK and Pin 8 of the SCLK are not normal but no problem is found on IC2401/IC2402, FPGA (IC2214) must be improperly soldered or defective. If no signal is found at Pin 9 of the ADAT_DOUT, DSP (IC701) must be improperly soldered or defective. If the signal at Pin 15 of the MS_SEL is not normal and Q2403/Q2402/Q2401 do not function properly, they must be improperly soldered or defective. If the DOUT_MS_SEL signal is not supplied properly, check for R711. If no problem is found, Ether UCOM (IC501) must be improperly soldered or defective. If both are normal and no signal is output from IC2404, IC2404 must be improperly soldered or defective. | 10.41 WAVEFORMS MAIN ASSY 1-63 1-61 1-62 1-60 1-64 |

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F

[4] DVS

[4-1] No analog timecode signal input to the mixer

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|---|--|
| 0 | Prior Confirmation | DIGITAL, CD/LINE, PHONO, LINE, USB */* selector/PC settings | <ul style="list-style-type: none"> Check that the selector is set to USB*/*. Check that the DJM-900 nexus utility of the connected PC is set properly. Check that the timecode (control) CD is connected to the CD connector and the timecode (control) record is connected to the PHONO connector. | | Operating instructions |
| 1 | Loose connection /defective parts | MAIN Assy V+5VBUS (1-37) / USB1 Assy | <ul style="list-style-type: none"> Check for the connections of CN1802/CN3801. Check that the voltage at Pin 5 (V+5VBUS) of CN1802 is about 5 V (4.75 to 5.25) using a PC connected. | <ul style="list-style-type: none"> Correct any poor connections. If the voltage at Pin 5 (V+5VBUS) of CN1802 is not about 5 V (4.75 to 5.25), replace the USB1 Assy. | |
| 2 | Loose connection /defective parts | INPUT Assy TC_SEL* (2-32) / MAIN Assy | [Checking the Audio Timecode select block] Check that the TC_SEL* signal level (Pin 6 of IC4408/IC4808/IC5208/IC5608) is H. | <ul style="list-style-type: none"> If it is not H, MAIN CUP (IC2011) must be improperly soldered or defective. If it is H, go to [3]. | 10.41 WAVEFORMS INPUT ASSY (2-32) |
| 3 | Loose connection /defective parts | INPUT Assy CH*_ADAT_TIME (2-27) | Check that a signal is input at Pin 2 of IC4408/IC4808/IC5208/IC5608. | <ul style="list-style-type: none"> If no signal is input, go to [4]. If a signal is input, IC4408/IC4808/IC5208/IC5608 must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY (2-27) |
| 4 | Loose connection /defective parts | INPUT Assy Representative CH1_TIME_R (2-26) | [Checking a Timecode ADC block] Check that a signal is input to the input connector of the Timecode ADC. IC4403(CH1)/IC4803(CH2)/IC5203(CH3)/IC5603(CH4) 1 pin, 2 pin | <ul style="list-style-type: none"> If no audio signal is input to the ADC, a problem in an analog circuit at a previous stage may be suspected. If no signal is input, go to [4]. If a signal is input, go to [5]. | 10.41 WAVEFORMS INPUT ASSY (2-26) |
| 5 | Loose connection /defective parts | INPUT Assy Before TRIM/ CH*_TIME_L/CH*_TIME_R (2-26) | [Checking an Timecode Buffer block] Check for a signal at the periphery of the Timecode Buffer. IC4401(CH1)/IC4801(CH2)/IC5201(CH3)/IC5601(CH4) | If a signal is interrupted at the periphery of the Timecode Buffer, this block must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY (2-26) |
| 6 | Loose connection /defective parts | INPUT Assy Representative CH1_RESET :13 pin (2-28) LRCK: 10 pin (2-31) MCLK: 11 pin (2-30) BCLK: 12 pin (2-29) | <p>[Checking a Timecode ADC block] Check for signals at IC4403(CH1)/IC4803(CH2)/IC5203(CH3)/IC5603(CH4).</p> <p>A signal level at Pin 13 of the RESET_IN* should be H.</p> <ul style="list-style-type: none"> LRCK: 10 pin MCLK: 11 pin BCLK: 12 pin | <p>If a signal level at Pin 13 of the RESET_IN* is not H, go to [9] of [2-1] No signal is input to the CD/LINE, PHONO connectors.</p> <ul style="list-style-type: none"> LRCK: 10 pin MCLK: 11 pin BCLK: 12 pin <p>If no signal is input, go to [11] of [2-1] No signal is input to CD/LINE, PHONO connectors.</p> <ul style="list-style-type: none"> If both are normal and there is no signal at Pin 9, IC4403(CH1)/IC4803(CH2)/IC5203(CH3)/IC5603(CH4) must be improperly soldered or defective. | 10.41 WAVEFORMS INPUT ASSY (2-28) (2-31) (2-30) (2-29) |

[4-2] No signal is input to and output from the USB 1 to 4 connectors.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|-----------------------------------|---|--|--|------------------------|
| 0 | Prior Confirmation | DIGITAL, CD/LINE, PHONO, LINE, USB */* selector/PC settings | <ul style="list-style-type: none"> Check that the selector is set to USB*/*. Check that the DJM-900 nexus utility of the connected PC is set properly. | | Operating instructions |
| 1 | Loose connection /defective parts | MAIN Assy / V+5VBUS (1-37) USB1 Assy | <ul style="list-style-type: none"> Check for the connections of CN1802/CN3801. Check that the voltage at Pin 5 (V+5VBUS) of CN1802 is about 5 V (4.75 to 5.25) using a PC connected. | <ul style="list-style-type: none"> Correct any poor connections. If the voltage at Pin 5 (V+5VBUS) of CN1802 is not about 5 V (4.75 to 5.25), replace the USB1 Assy. | |

A [5] Indicator (FL/LED) not lit

SUB UCOM (IC6601) controls the FL/LED.

MAIN_CPU controls only LFO FORM (WAKE UP) button LED and EFFECT ON/OFF button LED.

[5-1] The FL does not light.

Driver power to the FL is supplied within the MAIN Assy.

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|----------------------------------|---|---|--|---|
| 1 | Power failure | PNLA Assy V6601 24 pin (4-12) 1 pin (4-10) 25 pin (4-9) MAIN Assy IC1407 V+3R3D Block (1-2) IC1405 V+5D Block (1-5) IC1401 V+34D Block (1-4) | Check for the voltage of the FL (V+3R3D_PA/V+5D_LED_PA/V+34D_PA). | If no loose connection is detected with the FL of the PNLA Assy but power voltage is not detected, check the mounting status of the DC-DC converter IC and peripheral parts for each voltage point of the MAIN Assy. If an error is detected, repair the defective parts. | 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS |
| 2 | Filament voltage error of the FL | PNLA Assy Voltage between pins 1 to 32 of V6601 (4-11) | Check that the FL filament voltage is $2.3\text{ V} \pm 20\%$. | If the voltage is outside the normal range, a bias circuit error of the FL may be suspected. Check the mounting status of Q6601, Q6602, and peripheral parts. If there is no problem, Q6601 or Q6602 may be defective. Replace them. | — |
| 3 | Signal errors | PNLA Assy V6601 22 pin (4-14) 21 pin (4-13) 23 pin (4-15) 24 pin (4-16) | Check for the output signal of the FL communication line and the cable connection status in the PNLA Assy. • FL_SCK • FL_TXD • FL_LAT • FL_BK | If no signal is output, check for the mounting status of SUB UCOM (IC6601). If there is no problem, the port may be defective. Replace it. If soldering is improper, resolder it. | 10.41 WAVEFORMS PNLA ASSY (4-14) (4-13) (4-15) (4-16) |
| 4 | Defective FL | PNLA Assy | If the symptom persists after the above corrections. | FL may be defective. Replace it. | — |

B [6] X-PAD

SUB UCOM (IC6601) controls the X-PAD.

[6-1] Pressing on the JOG dial not be detected

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|---------------------------|--|---|---|---|
| 1 | Loose connection | PNLA Assy CDCB Assy | Check for loose connection on the signal line from the power source and SUB UCOM (IC6601) to the touch sensor IC (IC3601). | If any connection on the power or signal line is improper, correct it. | |
| 2 | Signal errors | PNLA Assy CN6601 10 pin (4-2) 5 pin (4-5) 8 pin (4-3) 7 pin (4-4) 3 pin (4-6) 2 pin (4-7) | Check for input and output signals of the communication line of the touch sensor IC in the PNLA Assy when power is supplied and the unit is turned on. • V+3R3 (power) • RBC_SCK • RBC_SI • RBC_SO • RBC_CS • RBC_INT | If there is no signal when the unit is turned on, check the mounting status of SUB UCOM (IC6601). If there is no problem, the port may be defective. Replace it. | 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS 10.41 WAVEFORMS PNLA ASSY (4-5) (4-3) (4-4) (4-6) (4-7) |
| 3 | Touch sensor IC defective | PNLA Assy (the same points checked in No.2) | Check that the input and output signals of the touch sensor IC communication line in the PNLA Assy with the X-PAD touched in normal operation. (the same points checked in No.2) | If there are no input or output signals, the touch sensor IC (IC3601) may be defective. As this part cannot be replaced, replace the Assy. | — |

[6-2] The X-PAD LEDs not light

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|------------------|---|--|--|---|
| 1 | Loose connection | PNLA Assy CN6602 27 pin (4-8) /MAIN Assy | Check for drive voltage of V+12_STB of the LED. | If any connection on the power line is improper, correct it. | 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS |
| 2 | Signal errors | PNLA Assy IC6601 79 pin (4-21) 80 pin (4-20) | Check if the LED drive signal is output from SUB uCOM (IC6601 Pins 79 and 80). | If the touch sensor functions normally but no signal is output, check the mounting status of the periphery of Q6651 to Q6654. If there is no problem, SUB UCOM (IC6601) port may be defective. Replace it. | 10.41 WAVEFORMS PNLA ASSY (4-21) (4-20) |
| 3 | Defective LED | PNLA Assy CN6601 11↔12 pin (4-1) | Check for the voltage (2.7–4.2 V) at both electrodes of the LED. | If no voltage is detected, the LED may be defective. Replace it. | |

[7] LAN

[7-1] No LAN communication

| No. | Cause | Diagnostics Point | Item to be Checked | Corrective Action | Reference |
|-----|--|---|--|--|--|
| 1 | — | — | Perform the Mode 12:Device Test in Test mode, and check if normal status is displayed for LAN, MACAd, IPAdd, and Subn. | <ul style="list-style-type: none"> If all show normal status, go to [2]. If LAN is NG, go to [3]. <p>If MACAd, IPAdd, and Subn are abnormal, data stored in the Flash (IC502) for the ETHER UCOM may be damaged. Replace the entire MAIN Assy. Note: The Flash (IC502) DYW1798 for the ETHER UCOM is not a service part for MAC address administration. Replace it with the MAIN Assy.</p> | 6.1 TEST MODE |
| 2 | Error between the LAN connectors (JA1601) and ETHER-PHY (IC1603) | MAIN Assy [1-18] | Check that the status of TRANS (T1601), Filters (F1601, F1602), etc. | Repair the defective parts. | — |
| 3 | <ul style="list-style-type: none"> Part defective Signal error | MAIN Assy [POWER] L1601 [1-20] [CLK] R1629 [1-21] [Communication line] [1-19] Representative R1631 | Error between ETHER-PHY (IC1603) and ETHER Ucom (IC501) may be suspected. [POWER] <ul style="list-style-type: none"> Power V+3R3D [CLK] <ul style="list-style-type: none"> 25M CLK * (25M_CLK_PHY) [Communication line] <ul style="list-style-type: none"> Check for the MII BUS line. | Repair the defective parts. | 4.3 POWER BLOCK DIAGRAM 5.3 INFORMATION ON POWER DIAGNOSTICS [CLK] 10.41 WAVEFORMS MAIN ASSY [1-21] [Communication line] 10.41 WAVEFORMS MAIN ASSY [1-19] |
| 4 | Part defective | MAIN Assy | If the symptom persists after the above corrections. | ETHER-PHY (IC1603) may be defective. Replace it. | — |

5.3 INFORMATION ON POWER DIAGNOSTICS

G MAIN ASSY

| Observing Point | Name | Remarks | Normal Voltage Level | Possible defective point when a voltage error is generated | Standby State (Power SW ON) |
|-----------------|-------------------------|---------------------------|----------------------|--|-----------------------------|
| 1 | VMUTE | | 14.3-19.9 | MUTE CIRCUIT(Q2603etc) | OFF |
| 2 | V+18VMUTE (V+18VMUTE_*) | | 14.3-19.9 | MUTE CIRCUIT(Q2603etc) | OFF |
| 3 | V+15A (V+15A_*) | | 14.2-15.8 | OUTPUT CIRCUIT(MAIN ASSY), INPUT CIRCUIT(INPUT ASSY) | OFF |
| 4 | V-15A (V-15A_*) | | -15.8 - -14.3 | OUTPUT CIRCUIT(MAIN ASSY), INPUT CIRCUIT(INPUT ASSY) | OFF |
| 5 | V+5A (V+5A_*) | | 4.7-5.3 | OUTPUT CIRCUIT(MAIN ASSY), INPUT CIRCUIT(INPUT ASSY) | OFF |
| 6 | +12V Switched | Before the ICP | 11.3-12.7 | ALL DIGITAL CIRCUIT | OFF |
| 7 | V+12D (V+12D_*) | After the ICP | 11.3-12.7 | ALL DIGITAL CIRCUIT | OFF |
| 8 | V+12STBY (V+12E) | | 11.3-12.7 | MAIN_CPU(IC2011), RESET IC(IC2010) | ON |
| 9 | V+9HP | | 8.55-9.45 | HP CIRCUIT | OFF |
| 10 | V-9HP | | -9.4 - -8.6 | HP CIRCUIT | OFF |
| 11 | V+3R3E (V+3R3E_*) | | 3.15-3.45 | MAIN_CPU(IC2011), RESET IC(IC2010) | ON |
| 12 | V+5D (V+5D_*) | | 4.8-5.3 | FL.,LED,MIDI,DIGITAL OUT | OFF |
| 13 | V+3R3D (V+3R3D_*) | | 3.15-3.45 | ALL DIGITAL CIRCUIT | OFF |
| 14 | V+1R2D (V+1R2D_*) | | 1.1-1.27 | FPGA(IC2214),DSP(IC701),Ether UCOM(IC501),USB UCOM(IC1801) | OFF |
| 15 | V+2R5D (V+2R5D_*) | | 2.37-2.62 | SRC,USB UCOM(IC1801) | OFF |
| 16 | V+34D_1 | Before the TrSW | 31-36 | FL. | OFF |
| 17 | V+34D | After the TrSW | 31-36 | FL. | OFF |
| 18 | V+5VBUS | Power of the connected PC | 4.75-5.25 | USB communication failure | ON |

A INPUT ASSY

| | | | | | |
|----|--------|---------------|---------------|---|-----|
| 19 | V+15A | After the ICP | 14.2-15.8 | INPUT CIRCUIT | OFF |
| 20 | V-15A | After the ICP | -15.8 - -14.3 | INPUT CIRCUIT | OFF |
| 21 | V+5A | | 4.7-5.3 | INPUT CIRCUIT | OFF |
| 22 | V+12D | After the ICP | 11.3-12.7 | INPUT CIRCUIT RELAY(RY4201, 4601,5001,5401) | OFF |
| 23 | V+5D | | 4.8-5.3 | MIDI OUT | OFF |
| 24 | V+3R3D | | 3.15-3.45 | DIGITAL CIRCUIT | OFF |

J SEND ASSY

| | | | | | |
|----|----------|---------------|---------------|---------------------|-----|
| 25 | V+15A_SE | After the ICP | 14.2-15.8 | SEND OUTPUT CIRCUIT | OFF |
| 26 | V-15A_SE | After the ICP | -15.8 - -14.3 | SEND OUTPUT CIRCUIT | OFF |
| 27 | V+5A_SE | | 4.7-5.3 | SEND_DAC(IC6401) | OFF |

K PNLA ASSY

| | | | | | |
|----|-------------|--|-----------|-------------------------|-----|
| 28 | V+5D_LED | | 4.8-5.3 | FL.,LED, | OFF |
| 29 | V+12STB | | 11.3-12.7 | LED(X-PAD,LFO FORM) | ON |
| 30 | V+3R3D | | 3.15-3.45 | FL.,SUB UCOM(IC6601) | OFF |
| 31 | V+34D | | 31-36 | FL. | OFF |
| 32 | V+3R3D_REFA | | 3.15-3.45 | CH1-4 FADER,CROSS FADER | OFF |

Q PNLB ASSY

| | | | | | |
|----|-------------|--|-----------|-------------|-----|
| 33 | V+3R3D_REFA | | 3.15-3.45 | CROSS FADER | OFF |
|----|-------------|--|-----------|-------------|-----|

L CDCB ASSY

| | | | | | |
|----|-------|--|-----------|--------------------|-----|
| 34 | V+3R3 | | 3.15-3.45 | CDC SENSOR(IC3601) | OFF |
|----|-------|--|-----------|--------------------|-----|

ex)V+5A_*.....V+5A_BO,V+5A_HP,V+5A_M1 etc....

5.4 VOLTAGE MONITORING CIRCUIT

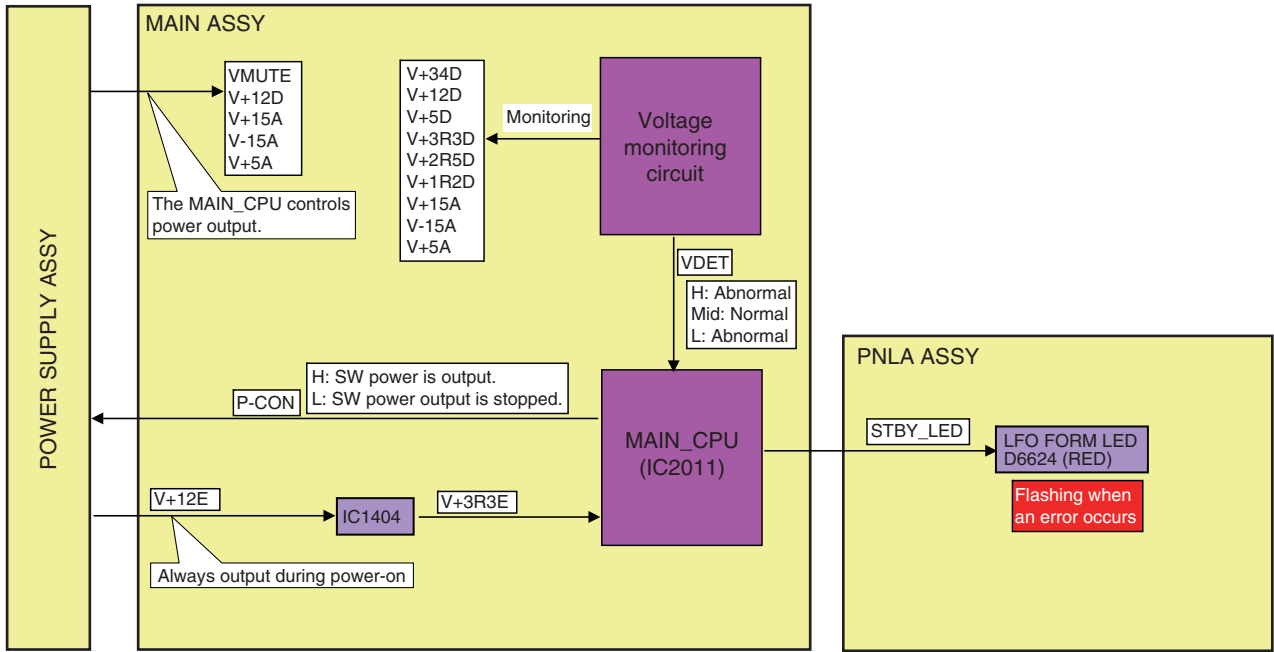
Voltage-Monitoring Circuit

This unit monitors the voltages of the main power-supply ICs, using the VDET signal.

The VDET signal level is middle (+1.08 V to +1.32 V) during normal operations. When the level becomes outside the middle level, as shown in the table below, an error is informed to the MAIN CPU (IC2011).

Product behavior when an error is generated

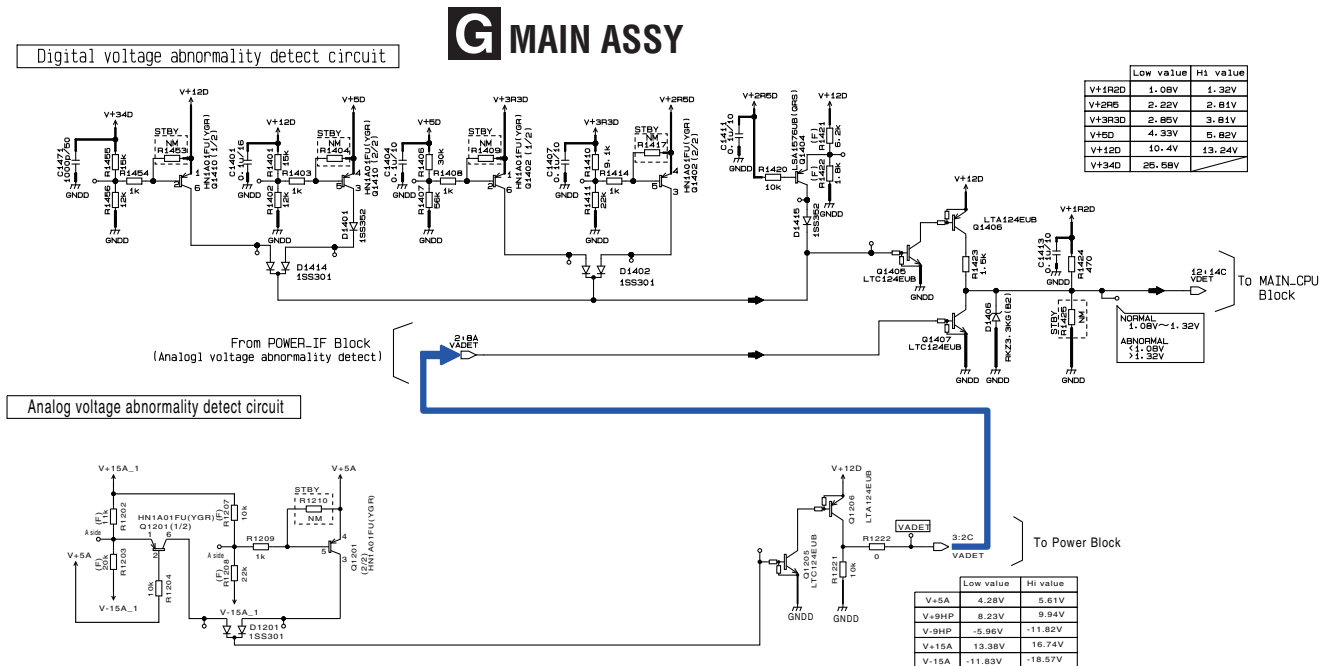
Upon reception of the VDET signal that informs of power failure, the MAIN CPU sets the P-CON signal to Low and stops the switching-system output from SW power.



The MAIN CPU also informs of power failure with flashing of the LFO FORM button, by sending the STBY_LED signal:
Flashing intervals: 250 ms (lit for 125 ms/unlit for 125 ms)

As the switching-system output is stopped, the indications other than the LFO FORM button are unlit and all the switches and VRs are disabled.

Schematic diagram of the voltage monitoring section



A

Table 1: List of voltage values for power monitoring and statuses of the voltage comparator transistors

| State | Power | Voltage | Statuses of voltage comparator transistors | | | | | | | | | | | | | | VDET Voltage | |
|----------------------------|---------|-----------|--|-------------|-------------|-------------|-------|-------|-------|-------------|-------------|-------------|-------------|-------|-------|-------|--------------|---------|
| | | | Q1410 (1/2) | Q1410 (2/2) | Q1402 (1/2) | Q1402 (2/2) | Q1404 | Q1405 | Q1406 | Q1201 (1/2) | Q1201 (2/2) | Q1203 (1/2) | Q1203 (2/2) | Q1205 | Q1206 | Q1407 | | |
| In normal operation | | | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Mid |
| When an error is generated | V+34D | < 25.58V | ON | OFF | OFF | OFF | OFF | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | V+12D | < 10.4V | OFF | ON | OFF | OFF | OFF | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | | > 13.24V | OFF | OFF | OFF | OFF | ON | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | V+5D | < 4.33V | OFF | OFF | ON | OFF | OFF | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | | > 5.82V | OFF | ON | OFF | OFF | OFF | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | V+3R3D | < 2.85V | OFF | OFF | OFF | ON | OFF | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | | > 3.81V | OFF | OFF | ON | OFF | OFF | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | V+2R5D | < 2.22V | OFF | OFF | OFF | OFF | ON | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | | > 2.81V | OFF | OFF | OFF | ON | OFF | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Hi |
| | V+1R2D | < 1.08V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | < 1.08V |
| | | > 1.32V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | > 1.32V |
| | V+15A | < 13.38V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | ON | ON | ON | Low |
| | | > 16.74V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | ON | ON | ON | Low |
| | V-15A | < -18.57V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | ON | ON | ON | Low |
| | | > -11.83V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | ON | ON | ON | Low |
| | V+5A | < 4.28V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | ON | ON | ON | Low |
| | > 5.61V | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | ON | ON | ON | Low | |

B

C

D

E

F

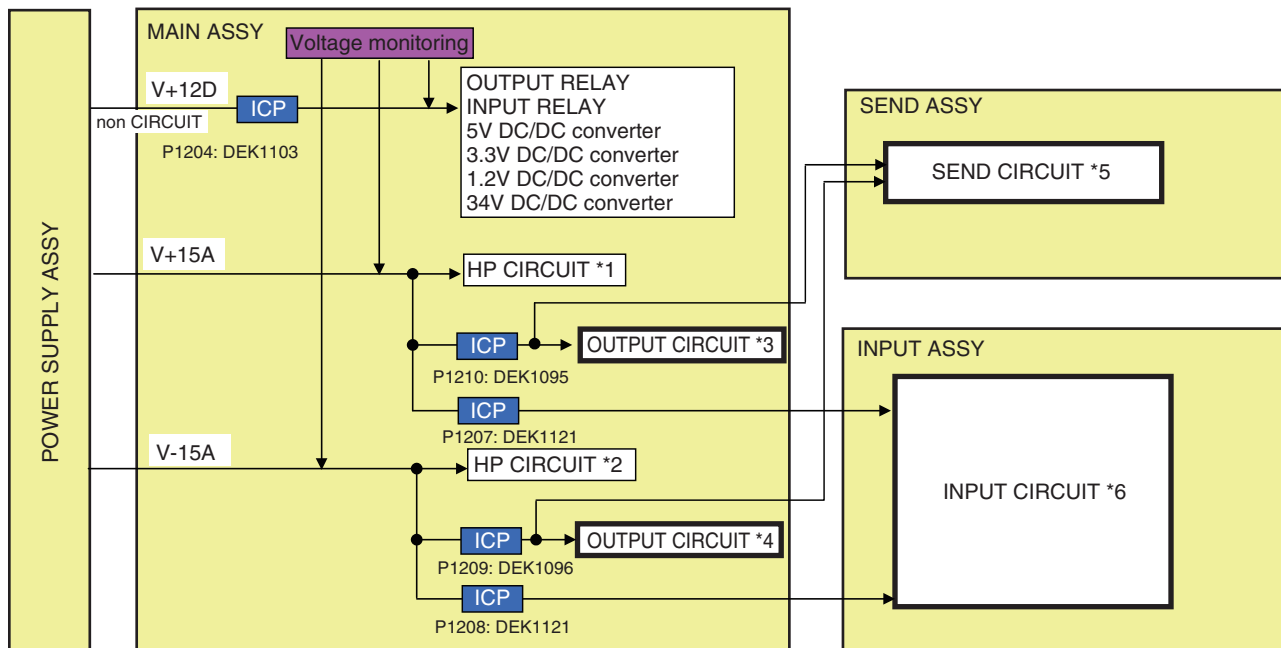
5.5 ABOUT THE PROTECTOR

This unit monitors the voltages of the main power-supply ICs, using the voltage-monitoring circuit. As the ICPs (IC protectors) are also used, some circuits cannot be monitored by the voltage-monitoring circuit when any wire for an ICP is broken.

(Circuits with thick frames in the figure below)

When any of the circuit blocks indicated in thick frames (located after the ICPs) in the figure below is in failure, also check for a broken wire for the ICP.

Locations of the ICPs



Names of the Power-Supply ICs

| V+15A | Before the ICP *1 | After the ICP (P1210) | | After the ICP (P1207) | |
|------------|-------------------|-----------------------|----------|-----------------------|----------|
| | MAIN | MAIN | SEND | MAIN | INPUT |
| V+15A_1 | V+15A_O | V+15A_O | V+15A_SE | V+15A_IN | V+15A_IN |
| V+15A_HP | V+15A_HP | V+15A_SE | | | |
| V+15A_HP_1 | V+15A_HP_1 | V+15A_SE_1 | | | |
| | | V+15A_BO | | | |
| | | V+15A_M2 | | | |
| | | V+5A_REC | | | |
| | | V+15A_M1 | | | |
| | | V+15A_M1_ICP | | | |
| V-15A | Before the ICP *2 | After the ICP (P1209) | | After the ICP (P1208) | |
| | MAIN | MAIN | SEND | MAIN | INPUT |
| V-15A_1 | V-15A_O | V-15A_O | V-15A_SE | V-15A_IN | V-15A_IN |
| V-15A_HP | V-15A_HP | V-15A_SE | | | |
| V-15A_HP_1 | V-15A_HP_1 | V-15A_SE_1 | | | |
| | | V-15A_BO | | | |
| | | V-15A_M2 | | | |
| | | V-5A_REC | | | |
| | | V-15A_M1 | | | |
| | | V-15A_M1_ICP | | | |

Diagnostic procedures when the wire for an ICP is broken

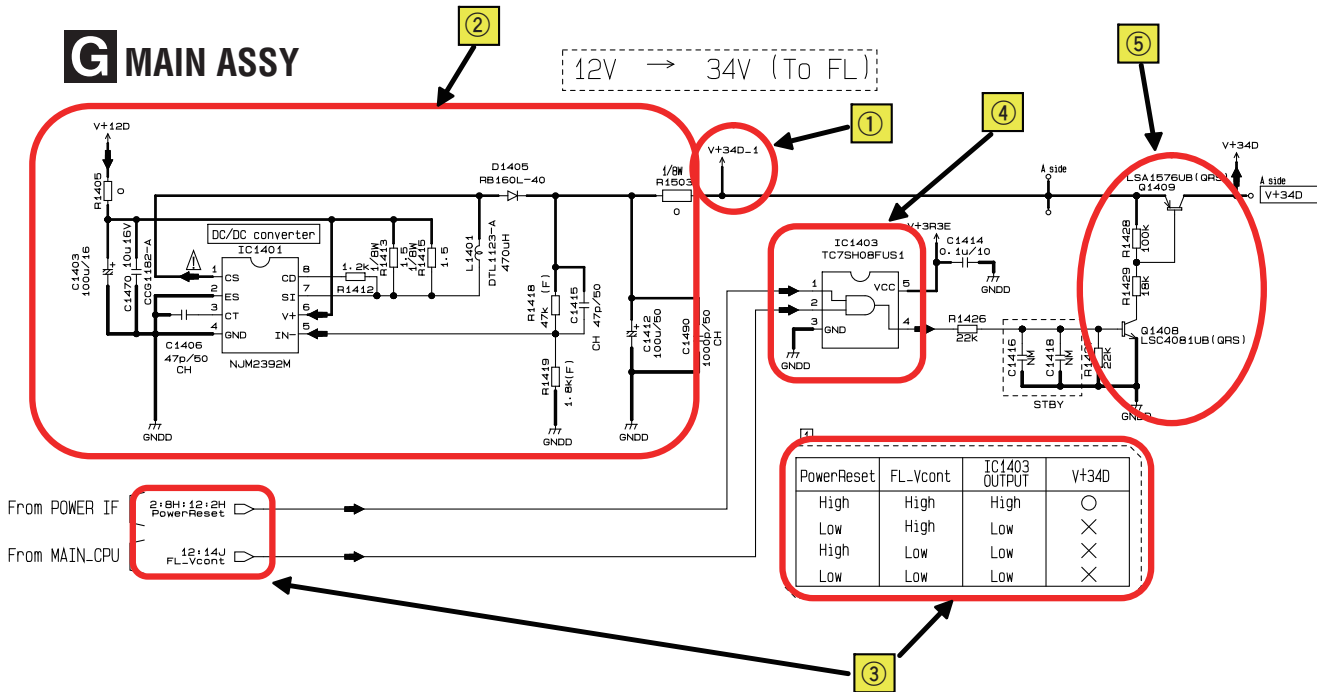
1. Unplug the AC power cord.
2. Check for any error, such as short-circuiting or defective parts, in the circuits subsequent to the ICP.
3. Repair the defective part.
4. Replace the ICP.

5.6 DIAGNOSIS OF V+34D

The driver power output for the FL (V+34D) is controlled with a transistor switch.

Diagnostic procedures when only V+34D is not output

- ① Check V+34D_1 at the prior stage of the transistor (Q1409).
- ② If no signal is detected at V+34D_1, the mounting status of the peripheral parts of the 34V DC/DC converter (IC1401) may be improper or IC1401 itself may be defective.
- ③ If a signal is detected at V+34D_1, check the input signals to IC1403.
If PowerReset is L, check the connection up to SW power (DWR1492).
If FL_Vcont is L, the mounting status of the MAIN_CPU (IC2011) may be improper or IC2011 itself may be defective.
- ④ If both PowerReset and FL_Vcont are H:
If the output signal from IC1403 is L, the mounting status of IC1403 may be improper or IC1403 itself may be defective.
- ⑤ If the output signal from IC1403 is H, the mounting status of the peripheral parts of Q1408 or Q1409 may be improper or Q1408/Q1409 may be defective.



5.7 ERROR INDICATIONS

■ Indications of Errors during Startup

If an error is detected during a boot sequence, it will be indicated by flashing of the LFO FORM (WAKE UP) LED.

| Error (in the order of detection) | Detecting Microcomputer | Indication | Cause | Diagnostic procedure |
|-----------------------------------|-------------------------|---|---|--|
| MAIN_CPU (IC2011) | MAIN_CPU (IC2011) | The unit will be forcefully started in Update mode. LFO FORM (WAKE UP) LED: Not flashing | Error of the ROM inside the MAIN_CPU (Depending on the degree of damage to the ROM, the unit may be in a state of power-off.) | Troubleshooting: "LFO FORM (WAKE UP) LED not flashing" in [1-1] No power, [1] Failure in Startup |
| DSP (IC701) | MAIN_CPU (IC2011) | Repeated once flashing of the LFO FORM (WAKE UP) LED (lit and unlit for 250 ms each 1 time then unlit for 1 s) | Error during the 1st command communication between the MAIN_CPU and DSP (via FPGA) | Troubleshooting: "LFO FORM (WAKE UP) LED flashing once" in [1-2] No power, [1] Failure in Startup |
| ETHER UCOM (IC501) | MAIN_CPU (IC2011) | Repeated 3-time flashing of the LFO FORM (WAKE UP) LED (lit and unlit for 250 ms each 3 times then unlit for 1 s) | Error during the 1st command communication between the MAIN_CPU and ETHER UCOM (via FPGA) | Troubleshooting: "LFO FORM (WAKE UP) LED flashing 3 times" in [1-3] No power, [1] Failure in Startup |
| SUB UCOM (IC6601) | MAIN_CPU (IC2011) | Repeated 5-time flashing of the LFO FORM (WAKE UP) LED (lit and unlit for 250 ms each 5 times then unlit for 1 s) | Error during the 1st command communication between the MAIN_CPU and SUB_UCOM (via FPGA) | Troubleshooting: "LFO FORM (WAKE UP) LED flashing 5 times" in [1-4] No power, [1] Failure in Startup |
| USB UCOM (IC1801) | MAIN_CPU (IC2011) | Repeated 6-time flashing of the LFO FORM (WAKE UP) LED (lit and unlit for 250 ms each 6 times then unlit for 1 s) | Serial communication error between the MAIN_CPU and USB UCOM | Troubleshooting: "LFO FORM (WAKE UP) LED flashing 6 times" in [1-5] No power, [1] Failure in Startup |
| DOUT DIT (IC2405) | MAIN_CPU (IC2011) | Repeated 7-time flashing of the LFO FORM (WAKE UP) LED (lit and unlit for 250 ms each 7 times then unlit for 1 s) | Serial communication error between the MAIN_CPU and DOUT DIT | Troubleshooting: "LFO FORM (WAKE UP) LED flashing 7 times" in [1-6] No power, [1] Failure in Startup |

■ Indications of Errors during Power Failure

The LFO FORM LED infinite flashes (Intervals: 250 ms [Lit 125 ms/Unlit 125 ms]).

■ Indications of Errors during Updating

| Effect Indication | Parameter Indication | Microcomputer in failure | Correspondence |
|-------------------|----------------------|--|---|
| ERROR | E001 | MAIN CPU UPDATE error | Please update it again. |
| ERROR | E002 | SUB UCOM UPDATE error | Please update it again. |
| ERROR | E003 | DSP data UPDATE error | Please update it again. |
| ERROR | E004 | DSP program UPDATE error | Please update it again. |
| ERROR | E005 | USB UCOM UPDATE error | Please update it again. |
| ERROR | E006 | ETHER UCOM UPDATE error | Please update it again. |
| ERROR | E007 | FPGA UPDATE error | Please update it again. |
| ERROR | E008 | Update file error | Download the update file again then perform updating. |
| ERROR | EE00 | LINK cutting error | Please update it again. |
| ERROR | EEXX | LINK error XX : Error generation task ID | Please update it again. |

5.8 CONNECTION CHECK WITH EACH INTERFACE

■ USB

[1. USB B connector]

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

Note: The driver software must be installed beforehand.

■ For checking, use the USB connection indicator of the unit.

Lit: The indicator lights when the driver is recognized after connection with the PC is established.

Flashing: If the driver cannot be recognized after PC connection, the LED flashes (Intervals: 500 ms [lit: 250 ms/unlit: 250 ms)

Unlit: When communication between the PC and the unit is interrupted, the LED goes dark.

■ Use Device Manager for checking.

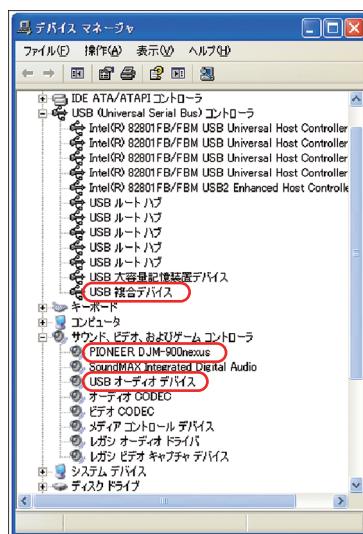
If the PC and this unit are properly connected, the components of this unit are added in Device Manager (under Hardware) as devices.

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

In a case of Windows XP:

Start, Control Panel, System, Hardware, then Device Manager
Devices to be added:

- Universal Serial Bus controllers
 - USB Composite Device
- Under "Sound, video and game controllers"
 - PIONEER DJM-900nexus
 - USB Audio Device



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

■ LAN

[2. LINK]

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

*Use a Category 5 cable or a cable with higher specifications for connection.

Either a straight or cross LAN cable can be used when the unit is directly connected with the PC, but when the unit is connected with the PC via a hub, be sure to use a straight cable.

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

- ① Start the unit in Test mode.
- ② Open "DEVICE" in "MODE 12: DEVICE TEST"
- ③ The IP Address and Subnet Mask are indicated.
- ④ Check if the LAN is properly connected.

When the LAN is properly connected:

IP Address: xxx . xxx . xxx . xxx

Subnet Mask: yyy . yyy . yyy . yyy

The above x's and y's mean any numeric digits 0–9.

Four blocks of numerical string delimited by dots

When the LAN is not properly connected:

IP Address: EE . EE . EE . EE

Subnet Mask: EE . EE . EE . EE

All four blocks are filled with "EE."

6. SERVICE MODE

6.1 TEST MODE

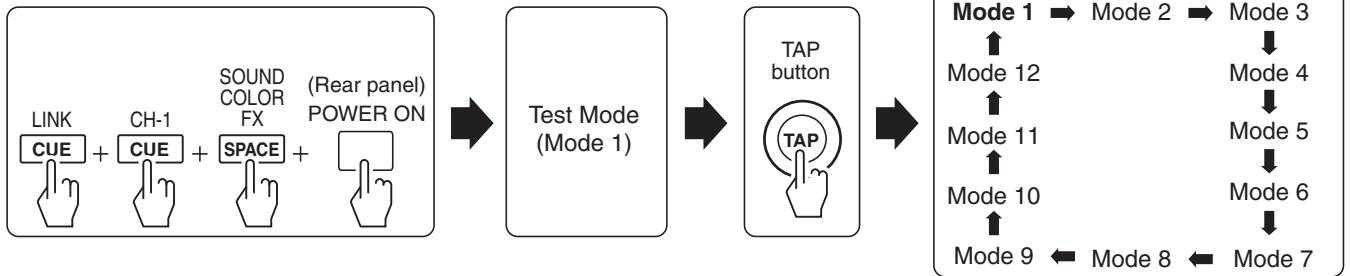
1. Description of Test Modes

The Following 12 test modes are provided for this unit:

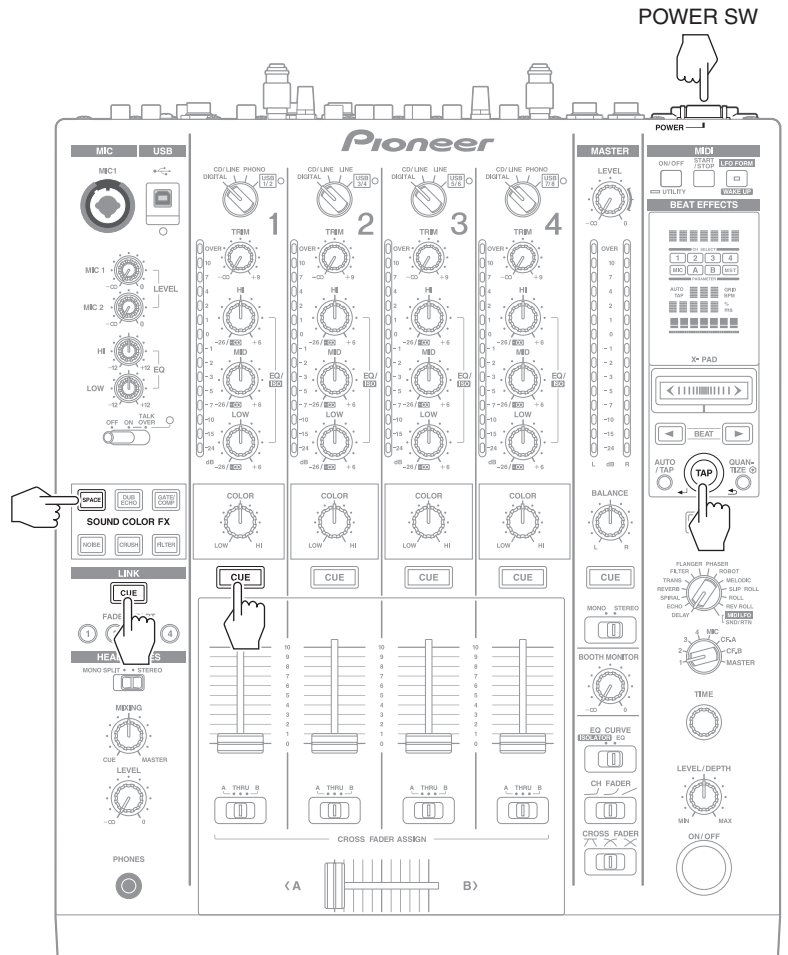
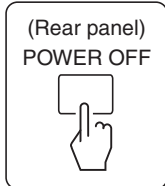
- ① Mode 1 : Confirmation of software version. "Version"
- ② Mode 2 : All LEDs & FL display "OFF" mode. "ALL CLR"
- ③ Mode 3 : ALL LEDs & FL display "ON" mode. "ALL SET"
- ④ Mode 4 : KEY operating test. "KEY TEST"
- ⑤ Mode 5 : SELECT SW Operating test. "SW TEST"
- ⑥ Mode 6 : Rotary VRs value test. "VOLTEST"
- ⑦ Mode 7 : Fader test. "FDRTEST"
- ⑧ Mode 8 : Channel Level Indicator LED test. "LEDTEST"
- ⑨ Mode 9 : X-PAD value test. "RBNTTEST"
- ⑩ Mode 10 : AD values of the rotary VRs test. "VOL AD"
- ⑪ Mode 11 : AD values of the fader test. "FDR AD"
- ⑫ Mode 12 : Device test. "DEVICE"

2. Test Mode

Test Mode : ON



Test Mode : CANCEL

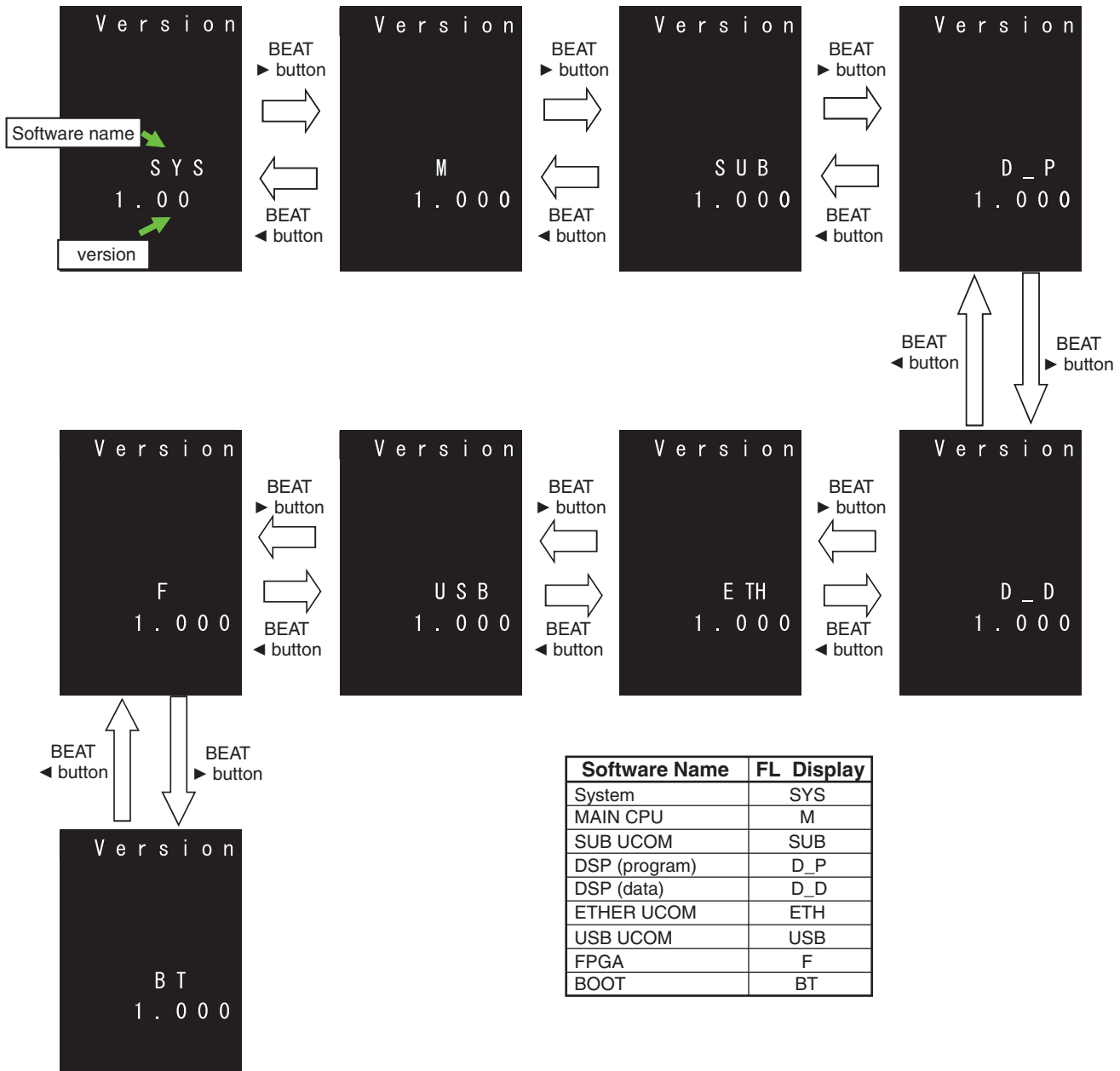


A 3. Test mode Contents

① Mode 1 : Confirmation of software version

- Mode for confirmation of the versions of the system, MAIN CPU, SUB UCOM, DSP (program), DSP (data), ETHER UCOM, USB UCOM, FPGA and BOOT.
When this mode is entered, "Version" is displayed at the top of the FL display and the TAP key lights.
- Mode 1 consists of 9 pages for indicating the versions of the system, MAIN CPU, SUB UCOM, DSP (program), DSP (data), ETHER UCOM, USB UCOM, FPGA and BOOT.
The pages can be changed by pressing the BEAT ◀, ▶ button.
When Mode 1 is entered, the System Version Display mode is automatically entered.

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② Mode 2 : All LEDs & FL display “OFF” mode

- Mode for extinguishing all the LEDs and FL segments.
Only after this mode is entered, “ALL CLR” is displayed for 1 second at the top of the FL display.
Note: The seven CUE button LEDs light dimly.

③ Mode 3 : All LEDs & FL display “ON” mode

- Mode for lighting all the LEDs and FL segments.
Only after this mode is entered, “ALL SET” is displayed for 1 second at the top of the FL display.

④ Mode 4 : Key operating test

- Mode for indicating a pressed key with lighting of an LED and indication on the FL display.
When this mode is entered, “KEYTEST” is displayed at the top of the FL display and the TAP key lights.
- The name of a pressed key is indicated on the FL display.

| Operating Keys | Lighting LED | FL Display | Remark |
|---------------------------------|-------------------------------------|------------|--------|
| FADER START 1 button | FADER START 1 button LED | FSCH1 | |
| FADER START 2 button | FADER START 2 button LED | FSCH2 | |
| FADER START 3 button | FADER START 3 button LED | FSCH3 | |
| FADER START 4 button | FADER START 3 button LED | FSCH4 | |
| CH1 CUE button | CH1 CUE button LED | CUE_1 | |
| CH2 CUE button | CH2 CUE button LED | CUE_2 | |
| CH3 CUE button | CH3 CUE button LED | CUE_3 | |
| CH4 CUE button | CH4 CUE button LED | CUE_4 | |
| LINK CUE button | LINK CUE button LED | CUE_L | |
| MASTER CUE button | MASTER CUE button LED | CUE_M | |
| EFFECT CUE button | EFFECT CUE button LED | CUE_E | |
| SOUND COLOR FX SPACE button | SOUND COLOR FX SPACE button LED | CFX_1 | |
| SOUND COLOR FX DUB ECHO button | SOUND COLOR FX DUB ECHO button LED | CFX_2 | |
| SOUND COLOR FX GATE/COMP button | SOUND COLOR FX GATE/COMP button LED | CFX_3 | |
| SOUND COLOR FX NOISE button | SOUND COLOR FX NOISE button LED | CFX_4 | |
| SOUND COLOR FX CRUSH button | SOUND COLOR FX CRUSH button LED | CFX_5 | |
| SOUND COLOR FX FILTER button | SOUND COLOR FX FILTER button LED | CFX_6 | |
| LFO FORM (WAKE UP) button | LFO FORM (WAKE UP) button LED | LFO | |
| ON/OFF (UTILITY) button | ON/OFF (UTILITY) button LED | MD_ON | |
| START/STOP button | None | MD_ST | |
| BEAT ◀ button | None | BEAT< | |
| BEAT ▶ button | None | BEAT> | |
| AUTO/TAP button | None | AUTO | |
| QUANTIZE button | QUANTIZE button LED | GRID | |
| ON/OFF button | ON/OFF button LED | EFXon | |

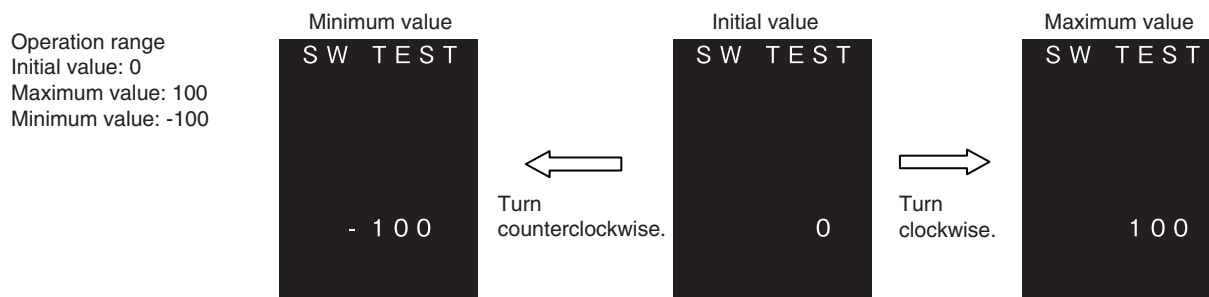
⑤ Mode 5 : SELECT SW Operating test. "SW TEST"

- When this mode is entered, "SW TEST" is displayed at the top of the FL display and the TAP key lights.

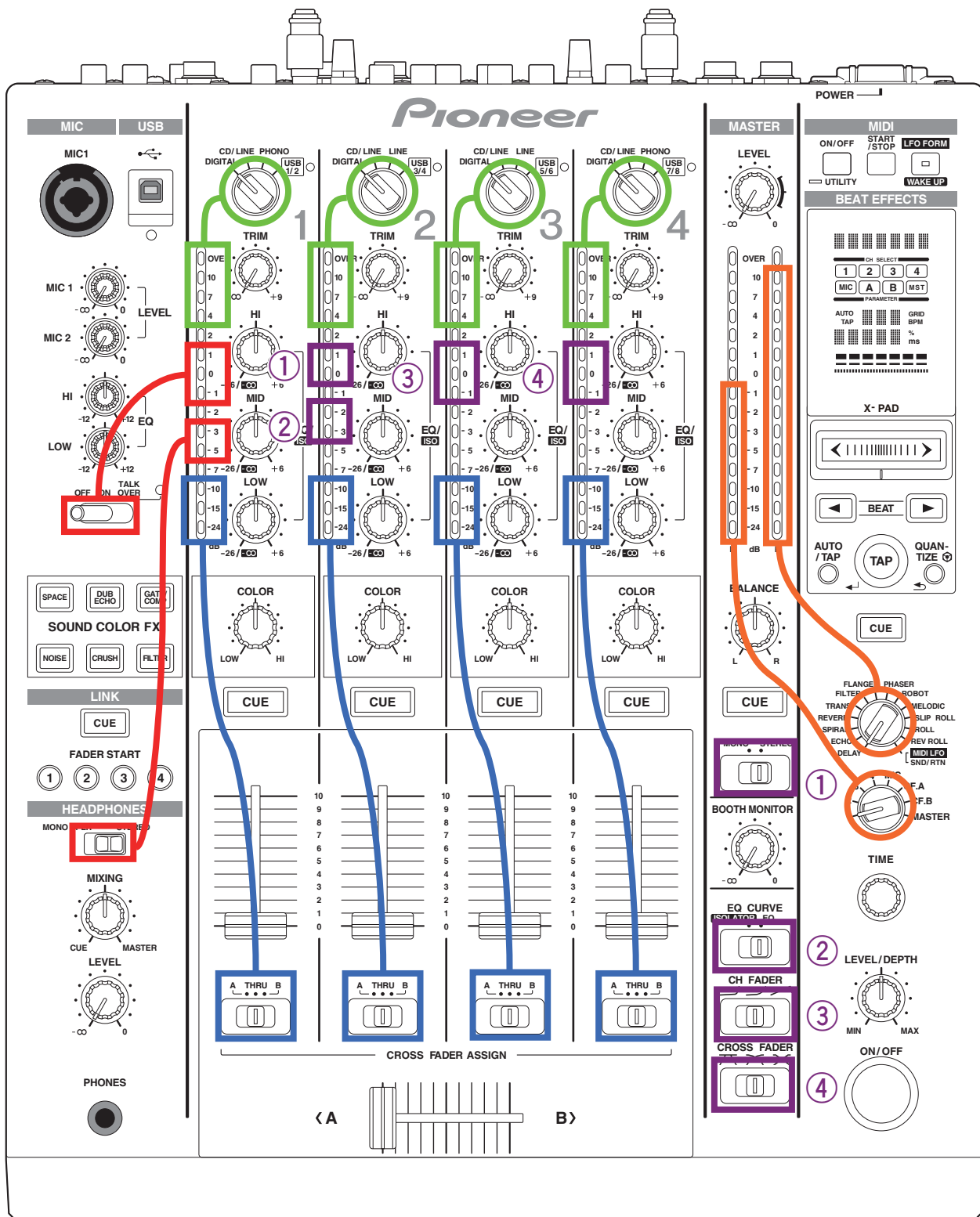
| Operating Switches | Lighting LED | Remark |
|---|--------------|--------|
| DIGITAL, CD/ LINE, PHONO, LINE, USB 1/2 selector switch CH1 | : DIGITAL | 4dB |
| | : CD/LINE | 7dB |
| | : PHONO | 10dB |
| | : USB 1/2 | OVER |
| DIGITAL, CD/ LINE, PHONO, LINE, USB 3/4 selector switch CH2 | : DIGITAL | 4dB |
| | : CD/LINE | 7dB |
| | : LINE | 10dB |
| | : USB 3/4 | OVER |
| DIGITAL, CD/ LINE, PHONO, LINE, USB 5/6 selector switch CH3 | : DIGITAL | 4dB |
| | : CD/LINE | 7dB |
| | : LINE | 10dB |
| | : USB 5/6 | OVER |
| DIGITAL, CD/ LINE, PHONO, LINE, USB 7/8 selector switch CH4 | : DIGITAL | 4dB |
| | : CD/LINE | 7dB |
| | : PHONO | 10dB |
| | : USB 7/8 | OVER |
| CROSS FADER ASSIGN (A, THRU, B) selector switch CH1 | : Assign A | -24dB |
| | : THRU | -15dB |
| | : Assign B | -10dB |
| CROSS FADER ASSIGN (A, THRU, B) selector switch CH2 | : Assign A | -24dB |
| | : THRU | -15dB |
| | : Assign B | -10dB |
| CROSS FADER ASSIGN (A, THRU, B) selector switch CH3 | : Assign A | -24dB |
| | : THRU | -15dB |
| | : Assign B | -10dB |
| CROSS FADER ASSIGN (A, THRU, B) selector switch CH4 | : Assign A | -24dB |
| | : THRU | -15dB |
| | : Assign B | -10dB |
| OFF, ON, TALK OVER selector switch | : OFF | -1dB |
| | : ON | 0dB |
| | : TALK OVER | 1dB |
| MONO SPLIT, STEREO selector switch | : MONO SPLIT | -5dB |
| | : STEREO | -3dB |
| MONO, STEREO selector switch | : MONO | 0dB |
| | : STEREO | 1dB |
| EQ CURVE (ISOLATOR, EQ) selector switch | : ISOLATOR | -3dB |
| | : EQ | -2dB |
| CH FADER (↵, ↶, ↷) selector switch | : Left | -1dB |
| | : MID | 0dB |
| | : Right | 1dB |
| CROSS FADER (↵, ↶, ↷) selector switch | : Left | -1dB |
| | : MID | 0dB |
| | : Right | 1dB |

| Operating Switches | | Lighting LED | | Remark |
|---|----------------------|------------------------------------|-------|--------|
| 1, 2, 3, 4, MIC, CF.A, CF.B, MASTER selector switch | : 1 | Master Level Indicator LED L CH | -24dB | |
| | : 2 | | -15dB | |
| | : 3 | | -10dB | |
| | : 4 | | -7dB | |
| | : MIC | | -5dB | |
| | : CF.A | | -3dB | |
| | : CF.B | | -2dB | |
| | : MASTER | | -1dB | |
| DELAY, ECHO, SPIRAL, REVERB, TRANS, FILTER, FLANGER, PHASER, ROBOT, MELODIC, SLIP ROLL, ROLL, REV ROLL, SND/RTN (MIDI LFO) selector switch | : DELAY | Master Level Indicator LED R CH | -24dB | |
| | : ECHO | | -15dB | |
| | : SPIRAL | | -10dB | |
| | : REVERB | | -7dB | |
| | : TRANS | | -5dB | |
| | : FILTER | | -3dB | |
| | : FLANGER | | -2dB | |
| | : PHASER | | -1dB | |
| | : ROBOT | | 0dB | |
| | : MELODIC | | 1dB | |
| | : SLIP ROLL | | 2dB | |
| | : ROLL | | 4dB | |
| | : REV ROLL | | 7dB | |
| | : SND/RTN (MIDI LFO) | | 10dB | |

This mode is also used to check operation of the TIME control.
The value displayed on the FL display increases/decreases as you turn the TIME control:



Correspondence diagram of Mode 5 : SELECT SW Operating test. "SW TEST"

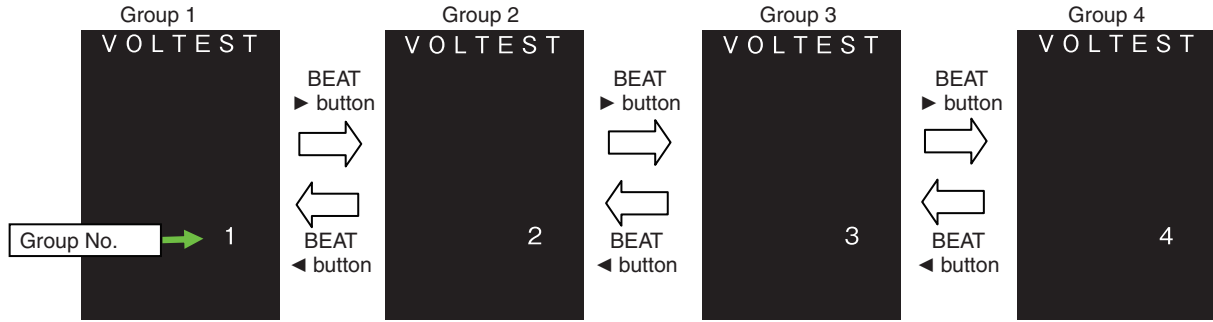


⑥ Mode 6 : Rotary VRs value test. "VOLTEST"

- Mode for confirmation of the AD conversion value for each rotary VR on the operation panel with lighting of a channel level indicator LED or the segments on the FL display
When this mode is entered, "VOLTEST" is displayed at the top of the FL display and the TAP key lights.

- To indicate the AD conversion values for several rotary VRs with a single level meter, the rotary VRs are divided into 4 groups.

The group pages can be changed by pressing the BEAT ◀, ▶ button.



[Use of this mode during repair]

- For failure judgment of the rotary VRs
- For operation check of a rotary VR after replacement

• Group 1

Rotary VRs whose AD conversion values can be confirmed:

- CH1 TRIM control, CH2 TRIM control, CH3 TRIM control, CH4 TRIM control, EQ HI control, EQ LOW control, CH1 COLOR control

| VR to be tested | Lit LED or FL | Remarks |
|-------------------|---------------------------------|--|
| CH1 TRIM control | CH1 Channel Level Indicator LED | "-∞": Lights off "+9": Full Illuminate |
| CH2 TRIM control | CH2 Channel Level Indicator LED | "-∞": Lights off "+9": Full Illuminate |
| CH3 TRIM control | CH3 Channel Level Indicator LED | "-∞": Lights off "+9": Full Illuminate |
| CH4 TRIM control | CH4 Channel Level Indicator LED | "-∞": Lights off "+9": Full Illuminate |
| EQ HI control | Master Level Indicator L LED | "-12": Lights off "+12": Full Illuminate |
| EQ LOW control | Master Level Indicator R LED | "-12": Lights off "+12": Full Illuminate |
| CH1 COLOR control | At the bottom of the FL display | "LOW": Lights off "HIGH": Full Illuminate |

A

• Group 2

Rotary VRs whose AD conversion values can be confirmed:

- CH1 EQ/ISO HI control, CH2 EQ/ISO HI control, CH3 EQ/ISO HI control, CH4 EQ/ISO HI control, MIXING control, LEVEL control, CH2 COLOR control

| VR to be tested | Lit LED or FL | Remarks |
|-----------------------|---------------------------------|--|
| CH1 EQ/ISO HI control | CH1 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH2 EQ/ISO HI control | CH2 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH3 EQ/ISO HI control | CH3 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH4 EQ/ISO HI control | CH4 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| MIXING control | Master Level Indicator L LED | "CUE": Lights off "MASTER": Full Illuminate |
| LEVEL control | Master Level Indicator R LED | "-∞": Lights off "0": Full Illuminate |
| CH2 COLOR control | At the bottom of the FL display | "LOW": Lights off "HIGH": Full Illuminate |

B

C

• Group 3

Rotary VRs whose AD conversion values can be confirmed:

- CH1 EQ/ISO MID control, CH2 EQ/ISO MID control, CH3 EQ/ISO MID control, CH4 EQ/ISO MID control, MASTER LEVEL control, BALANCE control, CH3 COLOR control

| VR to be tested | Lit LED or FL | Remarks |
|------------------------|---------------------------------|---|
| CH1 EQ/ISO MID control | CH1 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH2 EQ/ISO MID control | CH2 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH3 EQ/ISO MID control | CH3 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH4 EQ/ISO MID control | CH4 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| MASTER LEVEL control | Master Level Indicator L LED | "-∞": Lights off "0": Full Illuminate |
| BALANCE control | Master Level Indicator R LED | "L": Lights off "R": Full Illuminate |
| CH3 COLOR control | At the bottom of the FL display | "LOW": Lights off "HIGH": Full Illuminate |

D

E

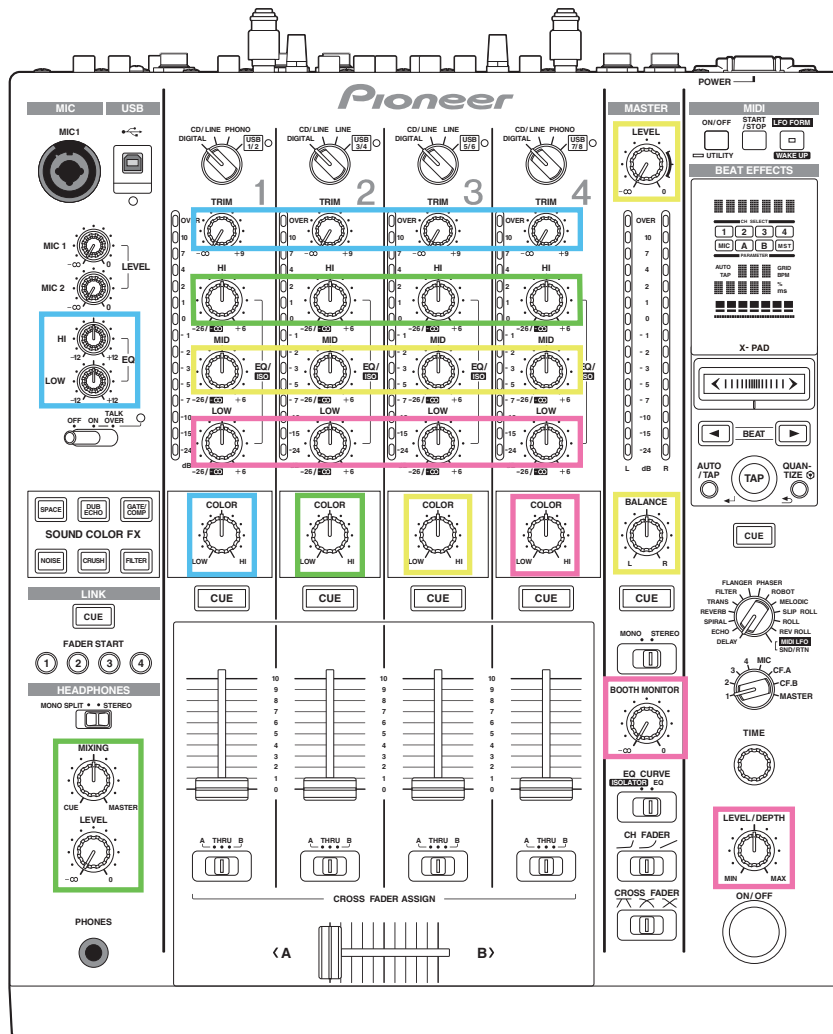
F

• Group 4

Rotary VRs whose AD conversion values can be confirmed:

- CH1 EQ/ISO LOW control, CH2 EQ/ISO LOW control, CH3 EQ/ISO LOW control, CH4 EQ/ISO LOW control, BOOTH MONITOR control, LEVEL/DEPTH control, CH4 COLOR control

| VR to be tested | Lit LED or FL | Remarks |
|------------------------|---------------------------------|---|
| CH1 EQ/ISO LOW control | CH1 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH2 EQ/ISO LOW control | CH2 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH3 EQ/ISO LOW control | CH3 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| CH4 EQ/ISO LOW control | CH4 Channel Level Indicator LED | "-∞/-26": Lights off "+6": Full Illuminate |
| BOOTH MONITOR control | Master Level Indicator L LED | "-∞": Lights off "0": Full Illuminate |
| LEVEL/DEPTH control | Master Level Indicator R LED | "MIN": Lights off "MAX": Full Illuminate |
| CH4 COLOR control | At the bottom of the FL display | "LOW": Lights off "HIGH": Full Illuminate |



- : Group 1
- : Group 2
- : Group 3
- : Group 4

⑦ Mode 7 : Fader test. "FDRTEST"

- Mode for confirmation of the values of CH1–4 Channel FADER and CROSS FADER with the channel level indicator LEDs. When this mode is entered, "FDRTEST" is displayed at the top of the FL display and the TAP key lights.

[Use of this mode during repair]

- For failure judgment of the faders
- For operation check of a fader after replacement

| Fader to be tested | Lit LED | Remarks |
|--------------------|---------------------------------|--|
| CH1 Channel Fader | CH1 Channel Level Indicator LED | "0": Lights off "10": Full Illuminate |
| CH2 Channel Fader | CH2 Channel Level Indicator LED | "0": Lights off "10": Full Illuminate |
| CH3 Channel Fader | CH3 Channel Level Indicator LED | "0": Lights off "10": Full Illuminate |
| CH4 Channel Fader | CH4 Channel Level Indicator LED | "0": Lights off "10": Full Illuminate |
| Cross Fader | Master Level Indicator L LED | "A": Full Illuminate "B": Lights off |

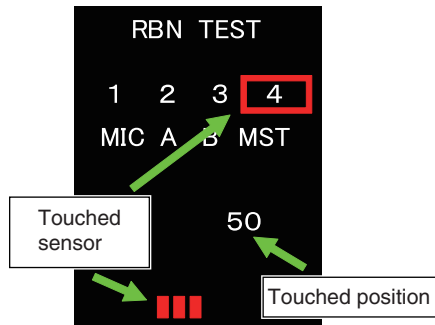
⑧ Mode 8 : Channel Level Indicator LED test. "LEDTEST"

- Mode for confirming lighting of the Channel Level Indicator LEDs
When this mode is entered, "LEDTEST" is displayed at the top of the FL display and the TAP key lights. The LEDs for CH1 CUE button, CH2 CUE button, CH3 CUE button, CH4 CUE button, MASTER CUE button, and EFFECT CUE button light.
- Each time the CUE button is pressed, the channel level indicator LEDs for each channel light one by one from the bottom. At first, all the LEDs are unlit. If the CUE button is pressed after it was pressed 15 times (when the top LED is lit), all the LEDs become unlit again.

| Button to be tested | Lit Meter | Remarks |
|---------------------|---------------------------------|---------|
| CH1 CUE button | CH1 Channel Level Indicator LED | |
| CH2 CUE button | CH2 Channel Level Indicator LED | |
| CH3 CUE button | CH3 Channel Level Indicator LED | |
| CH4 CUE button | CH4 Channel Level Indicator LED | |
| MASTER CUE button | Master Level Indicator L LED | |
| EFFECT CUE button | Master Level Indicator R LED | |

⑨ Mode 9 : X-PAD value test. "RBNTTEST"

- Mode for confirmation of the X-PAD value with a channel level indicator LED and the FL display
When this mode is entered, "RBNTTEST" is displayed at the top of the FL display.
- The data item for a touched position on the X-PAD is expressed with a figure in the range of 0 to 127 and displayed in the middle of the FL display. The LEDs light according to the position touched on the X-PAD.
- The X-PAD consists of 8 sensors.
A touched sensor is indicated on the FL display so that you can judge if it is functioning properly.
The indication method is as shown below.



| Operating Section | Lit LED or FL | Remarks |
|-------------------|---|---|
| X-PAD | CH1 Channel Level Indicator LED | Left: Lights off Right: Full Illuminate |
| X-PAD | FL: BPM section on the FL display | Left: 0 Right: 127 |
| X-PAD Sensor 1 | CH and X-PAD sections on the FL display | CH section: Red frame around 1 X-PAD section: The 1st, 2nd, and 3rd segments light. |
| X-PAD Sensor 2 | CH and X-PAD sections on the FL display | CH section: Red frame around 2 X-PAD section: The 5th, 6th, and 7th segments light. |
| X-PAD Sensor 3 | CH and X-PAD sections on the FL display | CH section: Red frame around 3 X-PAD section: The 9th, 10th, and 11th segments light. |
| X-PAD Sensor 4 | CH and X-PAD sections on the FL display | CH section: Red frame around 4 X-PAD section: The 13th, 14th, and 15th segments light. |
| X-PAD Sensor 5 | CH and X-PAD sections on the FL display | CH section: Red frame around MIC X-PAD section: The 17th, 18th, and 19th segments light. |
| X-PAD Sensor 6 | CH and X-PAD sections on the FL display | CH section: Red frame around A X-PAD section: The 21th, 22th, and 23th segments light. |
| X-PAD Sensor 7 | CH and X-PAD sections on the FL display | CH section: Red frame around B X-PAD section: The 25th, 26th, and 27th segments light. |
| X-PAD Sensor 8 | CH and X-PAD sections on the FL display | CH section: Red frame around MST X-PAD section: The 29th, 30th, and 31th segments light. |

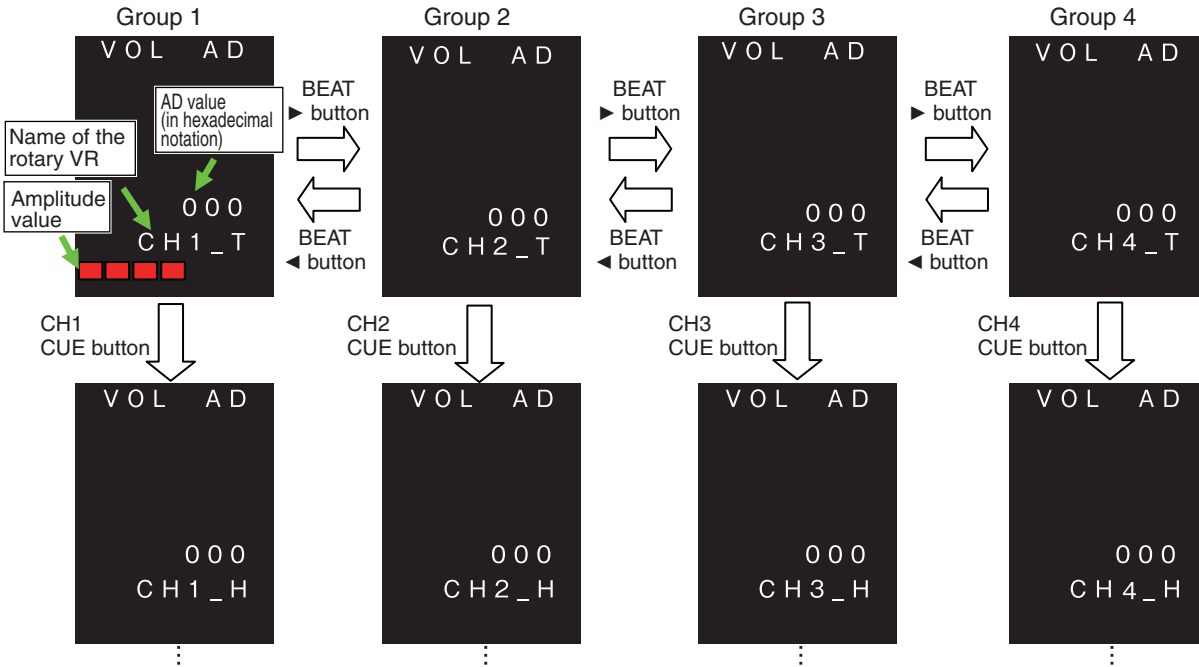
⑩ Mode 10 : AD values of the rotary VRs test. "VOL AD"

- Mode for displaying the AD values of rotary VRs on the FL display for confirmation. When this mode is entered, "VOL AD" is displayed at the top of the FL display. To indicate the AD values for several rotary VRs with a single level meter, the rotary VRs are divided into 4 groups. The group pages can be changed by pressing the BEAT ◀, ▶ button. When the groups are switched, the name of the VR at the top of the group list is displayed at the bottom of the FL display. The rotary VRs in a group can be changed by pressing the CH1-4 CUE button.
- The maximum amplitude value among AD conversion values for a rotary VR being tested can be confirmed on each page of this mode. The value is expressed with the number of segments lit at the bottom of the FL display. The measurement procedure is as indicated below.

Turn the rotary VR you wish to test to a desired position then press the EFFECT CUE key to start measurement. To reset, press the EFFECT CUE key again. During measurement, the maximum amplitude value will be continuously displayed. The EFFECT CUE key is lit during measurement and goes dark when reset. Details on the amplitude value display are shown in the figures below.



An amplitude value in the range of ±1 to ±6 with regard to the VR value at the beginning of measurement is displayed. For a value greater than +7 or less than -7, all the 7 segments are lit.



Note:

If the CUE button is pressed while the last VR on each group list is displayed, the top VR on that group list will then be displayed. When the BEAT ◀, ▶ button is pressed for a layer lower than the 2nd one, the top VR on the list of the next group will be displayed.

[Use of this mode during repair]

- For failure judgment of the rotary VRs
As a guide, amplitude values higher than +4 or lower than -4 may be judged as failure.
The VRs can be set to any position during measurement. Possible symptoms are shown below.
 - The volume changes arbitrarily.
 - Interrupted sound leakage occurs even if the volume is decreased to the minimum at the Master or ZONE.
 - The MIDI signal is output even if the corresponding VR is not operated.
- For operation check of a rotary VR after replacement

• Group 1

Rotary VRs whose AD conversion values can be confirmed:

- CH1 TRIM control, CH1 EQ/ISO HI control, CH1 EQ/ISO MID control, CH1 EQ/ISO LOW control, CH1 COLOR control, EQ HI control, EQ LOW control

| VR to be tested | FL Display Name | Remarks |
|------------------------|-----------------|----------------------------|
| CH1 TRIM control | CH1_T | "-∞": 000 "+9": 3FE |
| CH1 EQ/ISO HI control | CH1_H | "-∞/-26": 000 "+6": 3FE |
| CH1 EQ/ISO MID control | CH1_M | "-∞/-26": 000 "+6": 3FE |
| CH1 EQ/ISO LOW control | CH1_L | "-∞/-26": 000 "+6": 3FE |
| CH1 COLOR control | CH1_C | "LOW": 000 "HIGH": 3FE |
| EQ HI control | MIC_H | "-12": 000 "+12": 3FE |
| EQ LOW control | MIC_L | "-12": 000 "+12": 3FE |

*As an AD value that is displayed on the FL display is the one before a hysteresis removal process, and as it has an amplitude, an error of about ± 2 may be produced.

• Group 2

Rotary VRs whose AD conversion values can be confirmed:

- CH2 TRIM control, CH2 EQ/ISO HI control, CH2 EQ/ISO MID control, CH2 EQ/ISO LOW control, CH2 COLOR control, MIXING control, LEVEL control

| VR to be tested | FL Display Name | Remarks |
|------------------------|-----------------|-----------------------------|
| CH2 TRIM control | CH2_T | "-∞": 000 "+9": 3FE |
| CH2 EQ/ISO HI control | CH2_H | "-∞/-26": 000 "+6": 3FE |
| CH2 EQ/ISO MID control | CH2_M | "-∞/-26": 000 "+6": 3FE |
| CH2 EQ/ISO LOW control | CH2_L | "-∞/-26": 000 "+6": 3FE |
| CH2 COLOR control | CH2_C | "LOW": 000 "HIGH": 3FE |
| MIXING control | HP_MX | "CUE": 000 "MASTER": 3FE |
| LEVEL control | HP_LV | "-∞": 000 "0": 3FE |

*As an AD value that is displayed on the FL display is the one before a hysteresis removal process, and as it has an amplitude, an error of about ± 2 may be produced.

• Group 3

Rotary VRs whose AD conversion values can be confirmed:

- CH3 TRIM control, CH3 EQ/ISO HI control, CH3 EQ/ISO MID control, CH3 EQ/ISO LOW control, CH3 COLOR control, MASTER LEVEL control, BALANCE control

| VR to be tested | FL Display Name | Remarks |
|------------------------|-----------------|----------------------------|
| CH3 TRIM control | CH3_T | "-∞": 000 "+9": 3FE |
| CH3 EQ/ISO HI control | CH3_H | "-∞/-26": 000 "+6": 3FE |
| CH3 EQ/ISO MID control | CH3_M | "-∞/-26": 000 "+6": 3FE |
| CH3 EQ/ISO LOW control | CH3_L | "-∞/-26": 000 "+6": 3FE |
| CH3 COLOR control | CH3_C | "LOW": 000 "HIGH": 3FE |
| MASTER LEVEL control | MSTLv | "-∞": 000 "0": 3FE |
| BALANCE control | MST_B | "L": 000 "R": 3FE |

*As an AD value that is displayed on the FL display is the one before a hysteresis removal process, and as it has an amplitude, an error of about ± 2 may be produced.

• Group 4

Rotary VRs whose AD conversion values can be confirmed:

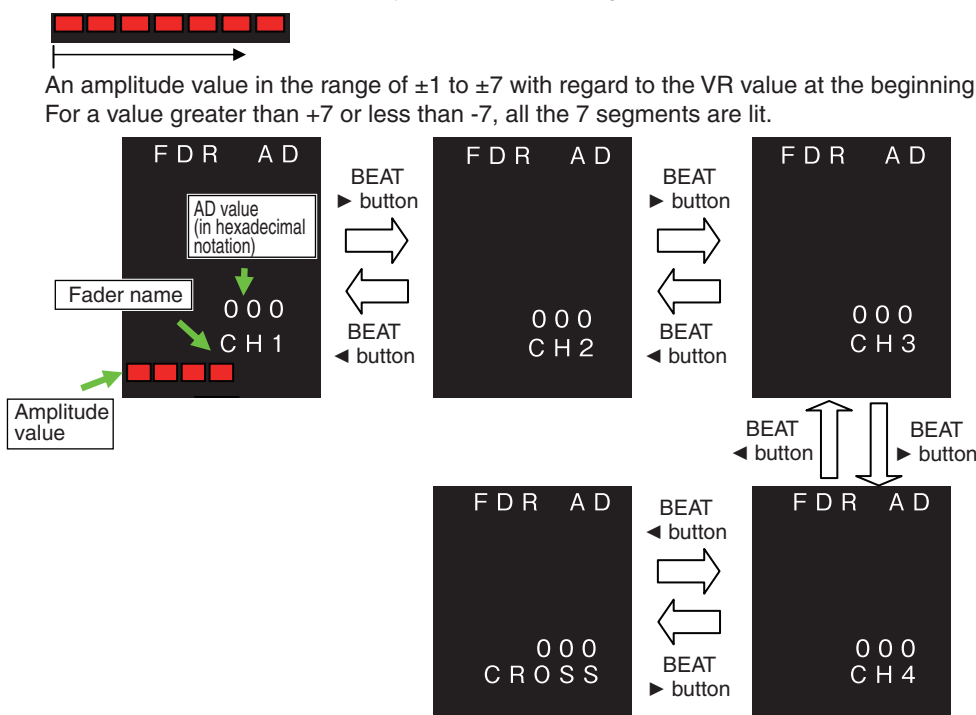
- CH4 TRIM control, CH4 EQ/ISO HI control, CH4 EQ/ISO MID control, CH4 EQ/ISO LOW control, CH4 COLOR control, BOOTH MONITOR control, LEVEL/DEPTH control

| VR to be tested | FL Display Name | Remarks |
|------------------------|-----------------|----------------------------|
| CH4 TRIM control | CH4_T | "-∞": 000 "+9": 3FE |
| CH4 EQ/ISO HI control | CH4_H | "-∞/-26": 000 "+6": 3FE |
| CH4 EQ/ISO MID control | CH4_M | "-∞/-26": 000 "+6": 3FE |
| CH4 EQ/ISO LOW control | CH4_L | "-∞/-26": 000 "+6": 3FE |
| CH4 COLOR control | CH4_C | "LOW": 000 "HIGH": 3FE |
| BOOTH MONITOR control | BOOTH | "-∞": 000 "0": 3FE |
| LEVEL/DEPTH control | LV/DP | "MIN": 000 "MAX": 3FE |

*As an AD value that is displayed on the FL display is the one before a hysteresis removal process, and as it has an amplitude, an error of about ± 2 may be produced.

⑪ Mode 11 : AD values of the fader test. "FDR AD"

- Mode for displaying the AD values of the faders on the FL display for confirmation
When this mode is entered, "FDR AD" is displayed at the top of the FL display and the TAP key lights.
- Mode 11 consists of 5 pages for indicating the values of 5 faders.
The pages can be changed by pressing the BEAT ◀, ▶ button.
When the groups are switched, the name of the VR at the top of the group list is displayed at the bottom of the FL display and its AD value is displayed in the middle.
- The maximum amplitude value among AD conversion values for a fader being tested can be confirmed on each page of this mode. The value is expressed with the number of segments lit at the bottom of the FL display. The measurement procedure is as indicated below.
Set the fader you wish to test to a desired position then press the EFFECT CUE key to start measurement. To reset, press the EFFECT CUE key again. During measurement, the maximum amplitude value will be continuously displayed. The EFFECT CUE key is lit during measurement and goes dark when reset.
Details on the amplitude value display are shown in the figures below.



[Use of this mode during repair]

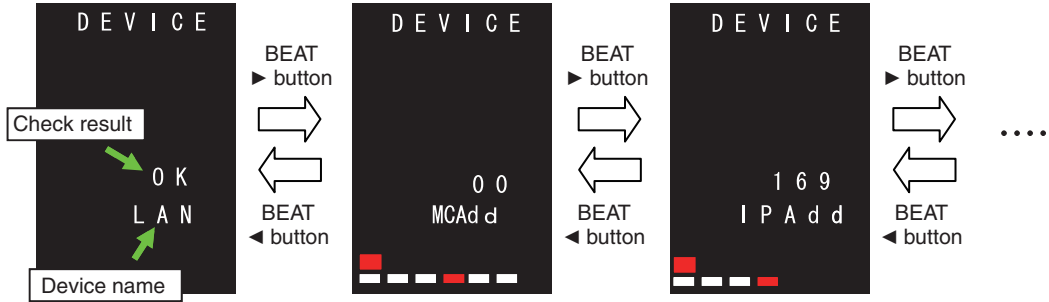
- For failure judgment of the faders
As a guide, amplitude values higher than +4 or lower than -4 may be judged as failure. The VRs can be set to any position during measurement. Possible symptoms are shown below.
 - The volume changes arbitrarily.
 - Interrupted sound leakage occurs even if the volume is decreased to the minimum at the fader.
 - The MIDI signal is output even if the corresponding VR is not operated.
- For operation check of a fader after replacement

Faders that can be confirmed

| Fader to be tested | FL Display Name | Remarks |
|--------------------|-----------------|-----------------------|
| CH1 Channel Fader | CH1 | "0": 000 "10": 3FE |
| CH2 Channel Fader | CH2 | "0": 000 "10": 3FE |
| CH3 Channel Fader | CH3 | "0": 000 "10": 3FE |
| CH4 Channel Fader | CH4 | "0": 000 "10": 3FE |
| Cross Fader | CROSS | "A": 000 "B": 3FE |

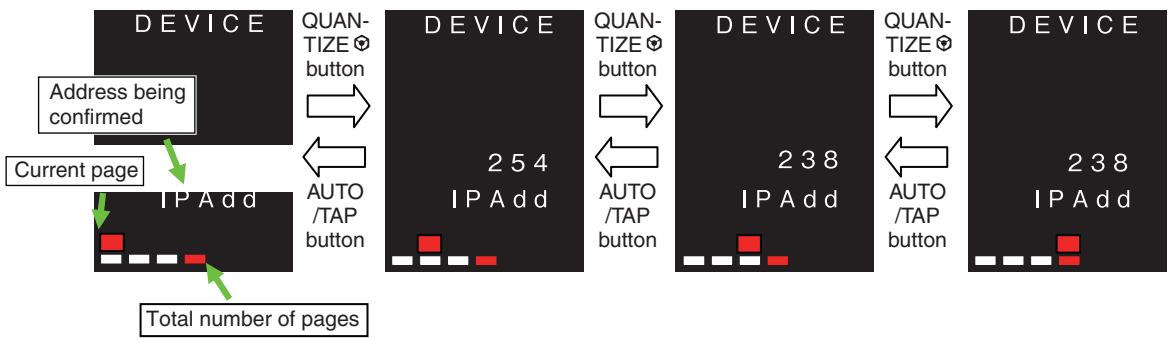
12 Mode 12 : Device test. "DEVICE"

- Mode for displaying the device information for confirmation
When this mode is entered, "DEVICE" is displayed at the top of the FL display and the TAP button lights.
- Mode 12 consists of 4 pages for indicating the statuses of LAN, IP address, MAC address, and subnet mask.
The pages can be changed by pressing the BEAT ◀, ▶ button.
- "OK" is displayed in the middle of the FL display when the device is operating properly, and "NG" is displayed when it is not properly operating.



- You can also check the address data for a device.
The address data that can be confirmed are MAC address, IP address, and IP address, and they are indicated by 3 digits at a time in the middle of the FL display.
If an address cannot be obtained, "EE" is displayed.
The address data pages can be changed with the AUTO/TAP or QUANTIZE button.
On the address data page, the current page No. and the total number of pages are displayed with lit segments at the bottom of the FL display.
Note: With the QUANTIZE button, the pages can be changed cyclically, but with the AUTO/TAP button, the pages change only in one direction (the page will not change if you press the key on Page 1).

Example: When the IP address is "169.254.238.238"

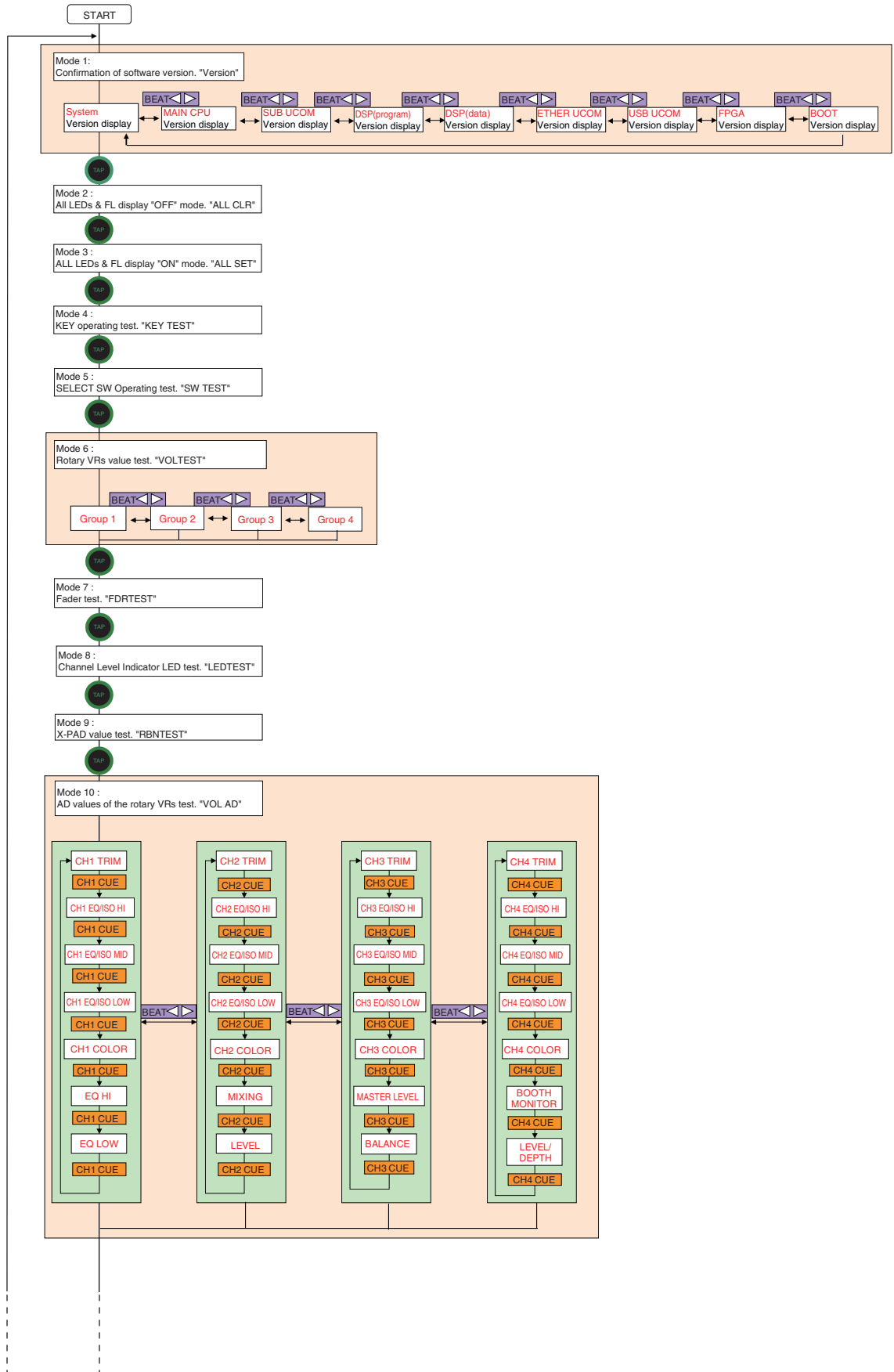


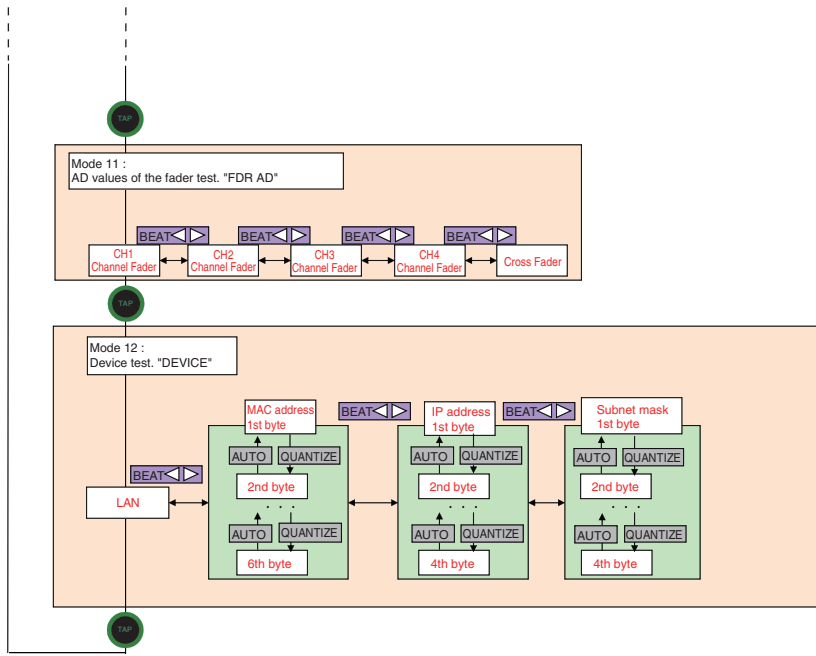
Devices and addresses that can be confirmed

| Device, Address | FL Display Name | Remarks |
|-------------------|-----------------|--|
| LAN | LAN | Properly operating: OK, Not properly operating: NG |
| LAN (MAC Address) | MCAdd | : Address value |
| LAN (IP Address) | IPAd | Properly operating: Address value, Not properly operating: EE *1 |
| LAN (Subnet Mask) | Subn | Properly operating: Address value, Not properly operating: EE *2 |

*1 "EE" is also displayed while the IP address is being obtained. If "EE" is displayed for more than 15 seconds, something is wrong.
*2 "EE" is also displayed before the subnet mask data are obtained.

4. Mode transition flowchart





6.2 ABOUT THE DEVICE

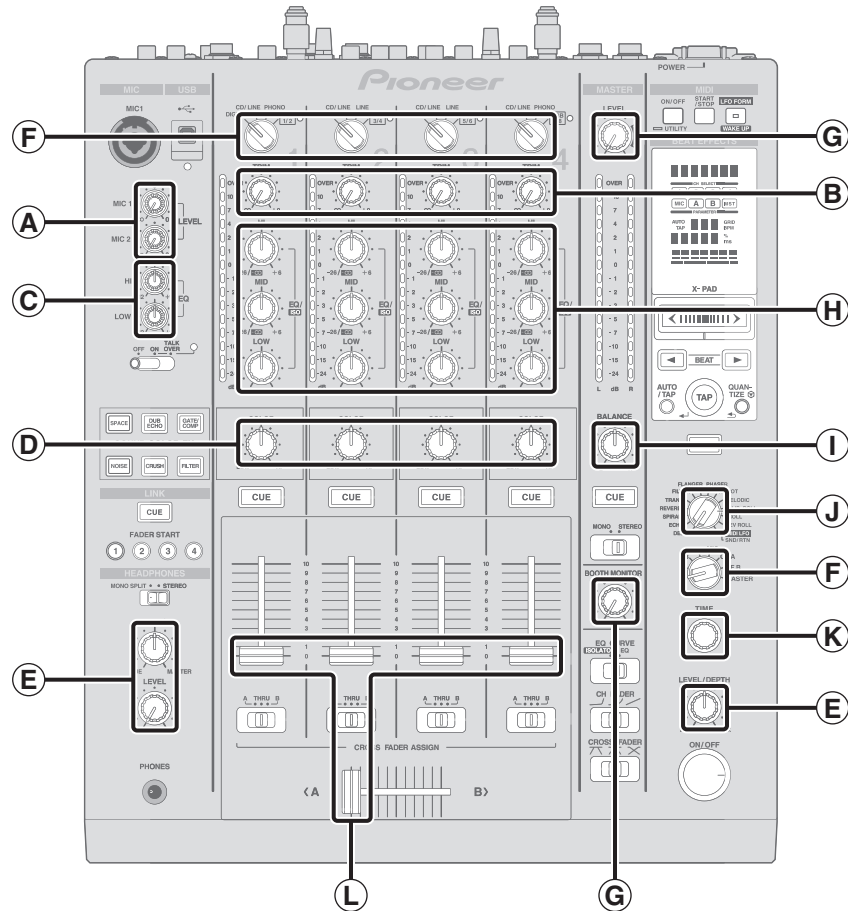
| Device Name | Function | Part No. | Reference No. | Assy |
|--------------|---|-------------------|---------------|-----------|
| MAIN CPU | Main control | DYW1799 | IC2011 | MAIN Assy |
| FPGA | For RAM, Digital input distinction, clock divider | XC3S50A-4FTG256C | IC2214 | MAIN Assy |
| ETHER UCOM | CONTROLLER for Ether net, Main control support | R5S76700B200BG | IC501 | MAIN Assy |
| FLASH (64M) | Memory for Ether UCOM (Firmware in MAC Address) | DYW1798 | IC502 | MAIN Assy |
| SDRAM (128M) | Memory for Ether UCOM (Work) | MD56V72160B-6TAZ | IC503 | MAIN Assy |
| DSP | Audio DSP | D810K013BZKB400 | IC701 | MAIN Assy |
| FLASH (4M) | Memory for DSP (Firmware) | DYW1797 | IC703 | MAIN Assy |
| SDRAM (256M) | Memory for DSP (Work) | MD56V82160-6TAZ | IC702 | MAIN Assy |
| USB UCOM | CONTROLLER for USB | ADSP-BF524BBCZ-3A | IC1801 | MAIN Assy |
| SDRAM (64M) | Memory for USB UCOM (Work) | IS42S16400F-6TL | IC1802 | MAIN Assy |
| ETHER PHY | PHY for Ether net LINK | RTL8201EL-VC-GR | IC1603 | MAIN Assy |
| SUB UCOM | LED, FL, KEY, VR control | DYW1800 | IC6601 | PNLA Assy |
| CDC SENSOR | Contact position detection of a X-PAD | AD7147ACPZ500RL7 | IC3601 | CDCB Assy |

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

7. DISASSEMBLY

Note: 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



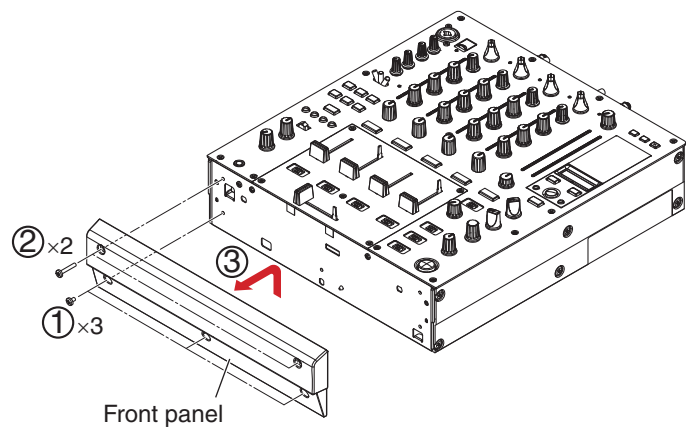
- A** Rotary SW Knob S (B) (DAA1178) ×2
 - B** Rotary SW Knob S (C) (DAA1204) ×4
 - C** Rotary SW Knob S (A) (DAA1177) ×2
 - D** Rotary SW Knob (HM) (DAA1256) ×4
 - E** Rotary Knob (BN) (DAA1220) ×3
 - F** FX Sel Knob (DAA1213) ×5
 - G** Rotary SW Knob (MA) (DAA1198) ×2
 - H** Rotary SW Knob (B) (DAA1176) ×12
 - L** Slider Knob 1 (DAC2684) ×5 + Slider Knob 2 (DAC2685) ×5 + Slider Knob Stopper (DNK5888) ×5
 - I** Rotary Knob Low (BN) (DAA1265) ×1
 - J** Select Knob (DAA1205) ×1
 - K** Rotary SW Knob (C) (DAA1180) ×1
-

A Disassembly

[1] Exterior Section

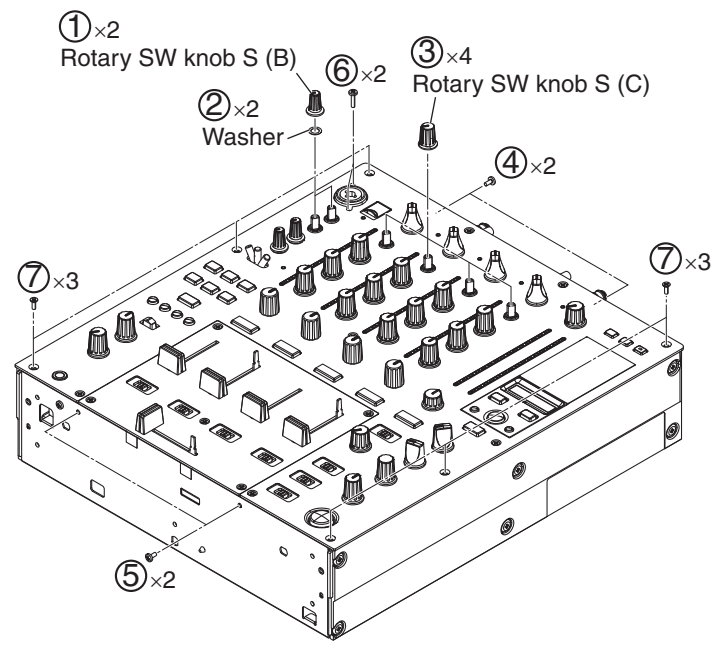
[1-1] Exterior section

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

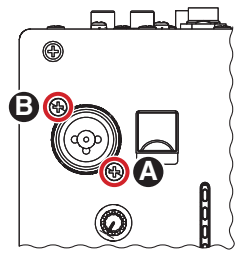


[1-2] Control panel section

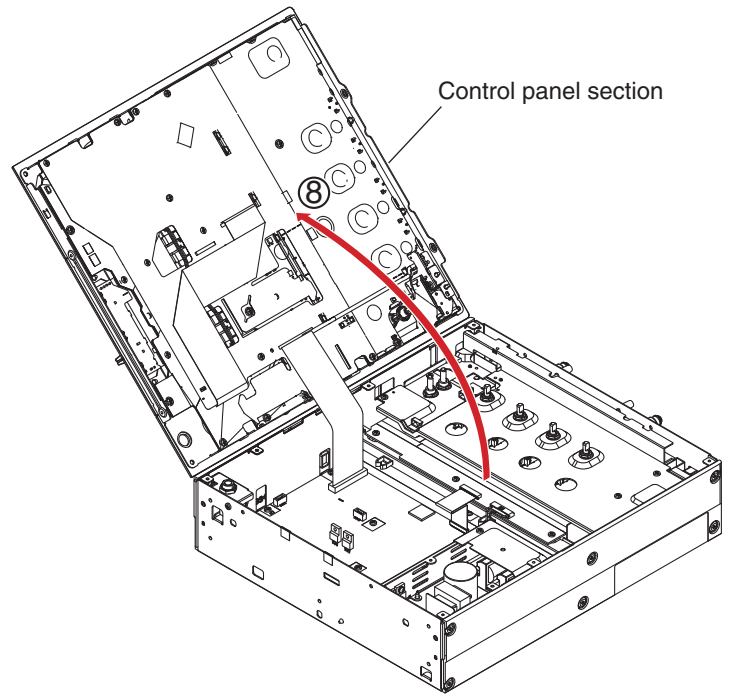
- (1) Remove the two rotary SW knobs S (B).
- (2) Remove the two washers.
- (3) Remove the four rotary SW knob S (C).
- (4) Remove the two screws. (BBZ30P060FTB)
- (5) Remove the two screws. (BBZ30P060FTC)
- (6) Remove the two screws. (BPZ30P120FTB)
- (7) Remove the six screws. (CCZ30P080FTB)



Screw tightening order

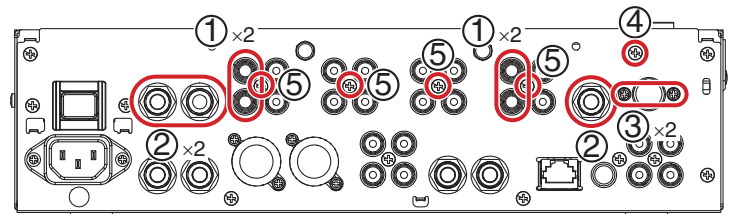


(8) Remove the control panel section.



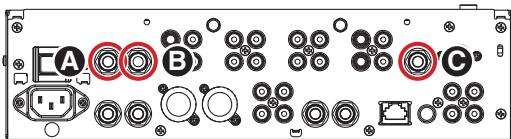
[2] INPUT Assy

- (1) Disconnect the four short pin plugs.
- (2) Remove the three washers and three nuts.
- (3) Remove the two screws. (PMH30P100FTB)
- (4) Remove the one screw. (BBZ30P060FTB)
- (5) Remove the four screws. (BPZ30P080FTB)



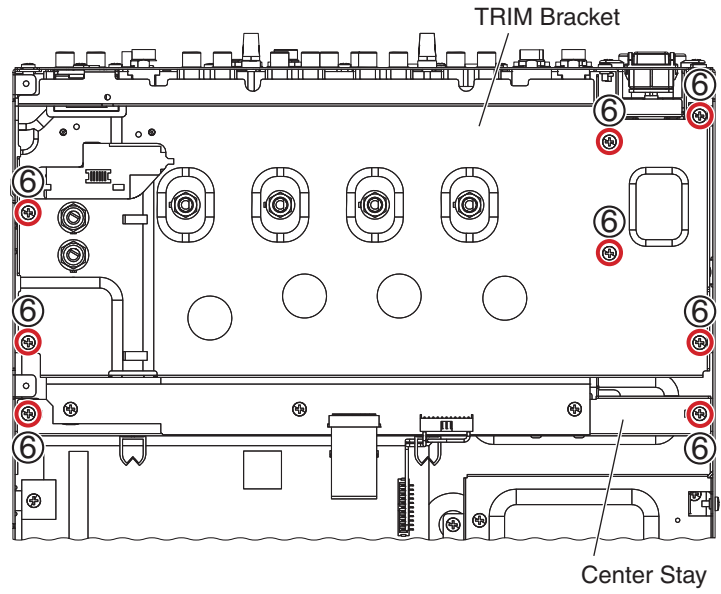
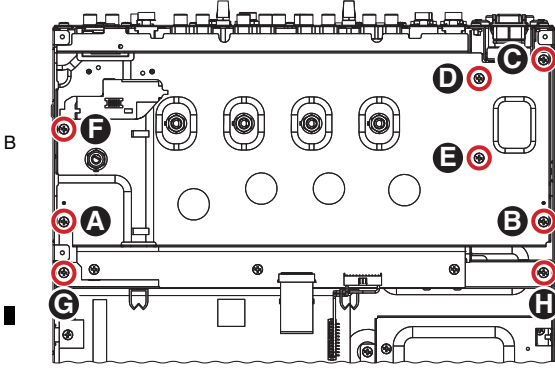
• Rear view

Nut tightening order

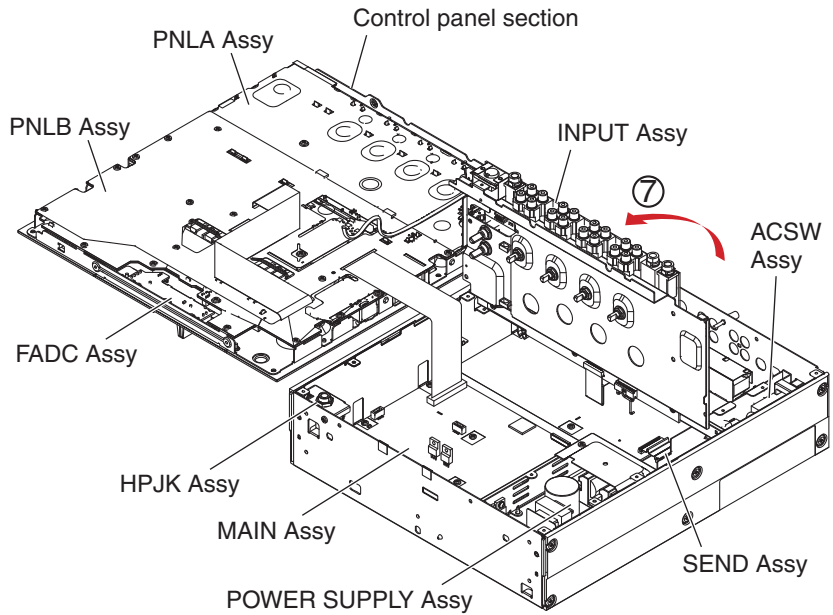


A
 (6) Remove the eight screws. (BBZ30P060FTC)

Screw tightening order

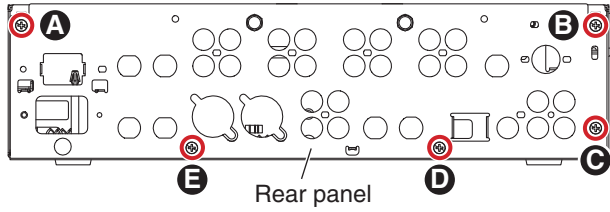


C
 (7) Lift up the INPUT Assy to a front direction.

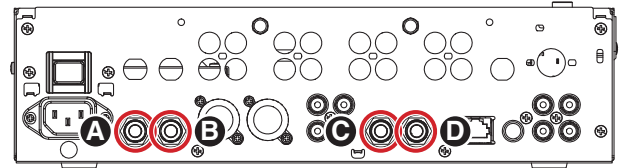


Reference information

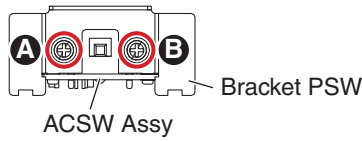
Screw tightening order (Rear panel)



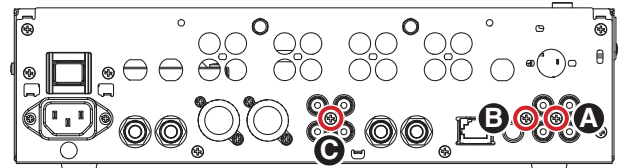
Nut tightening order (MAIN, SEND Assy)



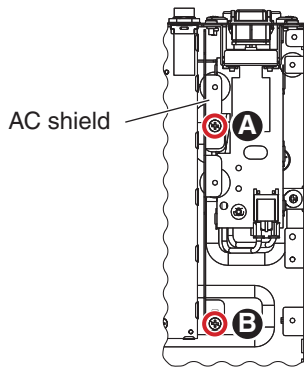
Screw tightening order (Bracket PSW)



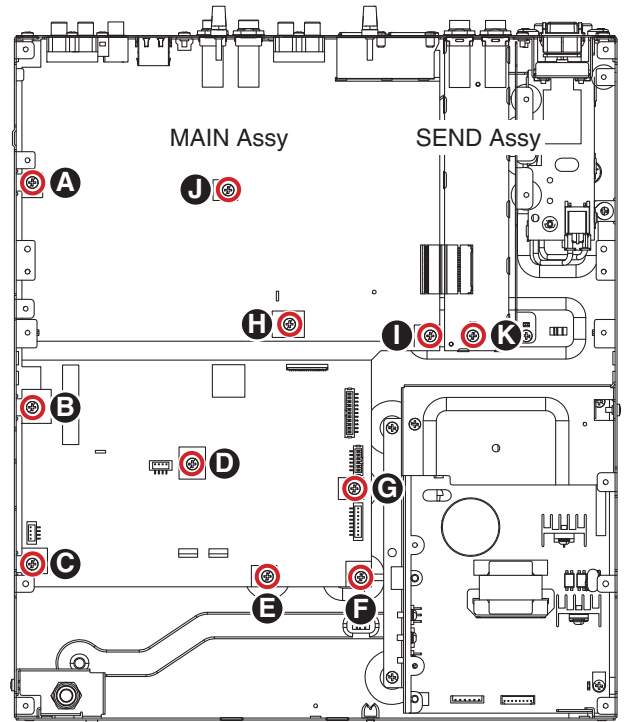
Screw tightening order (MAIN Assy)



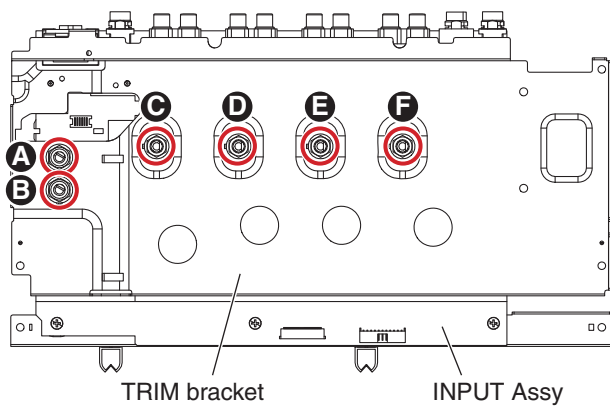
Screw tightening order (AC shield)



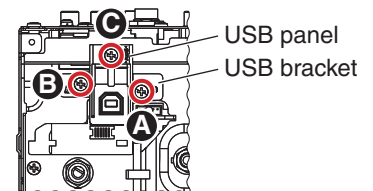
Screw tightening order (MAIN, SEND Assy)



Nut tightening order (INPUT Assy)



Screw tightening order (USB bracket)

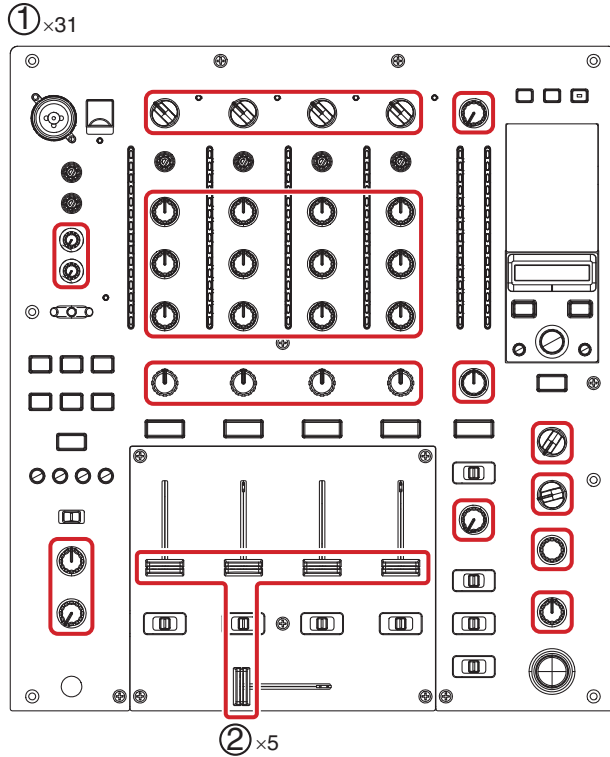
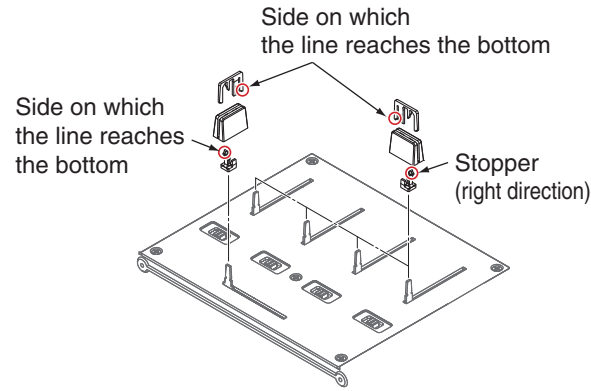


A [3] Panel Section

[3-1] Control panel and Fader panel

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

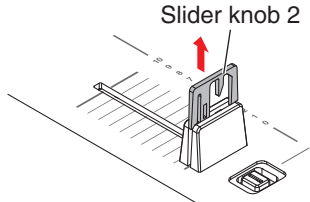
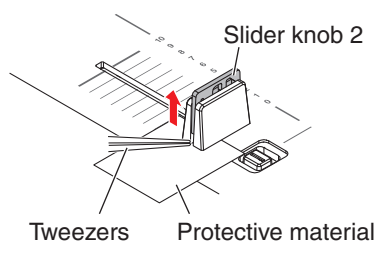
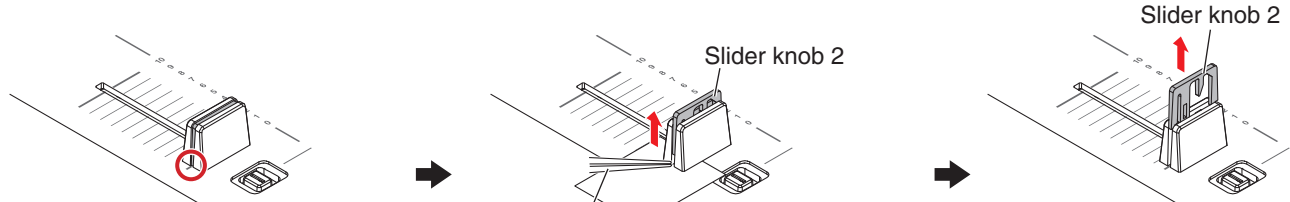
The reference of the direction



• Disassembly of the slider knob

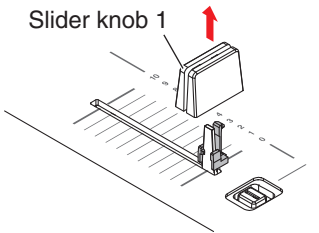
The new slider knob adopted by this product is designed so that it is not pulled out easily. Therefore, the method for removing the slider knob is different from the conventional method; it can only be pulled out after slider knob 2 is removed.

- ① Find the side on which the line reaches the bottom.
- ② Insert a pair of tweezers etc. beneath the line then push the slider knob 2 upward. To protect the panel from being scratched, use protective material.
- ③ Remove the slider knob 2.

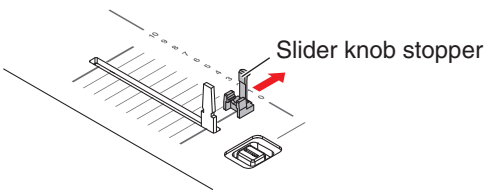


*: During reassembly, fully push down Slider knob 2 until it is dented into Slider knob 1.

- ④ Remove the slider knob 1.



- ⑤ Remove the slider knob stopper.

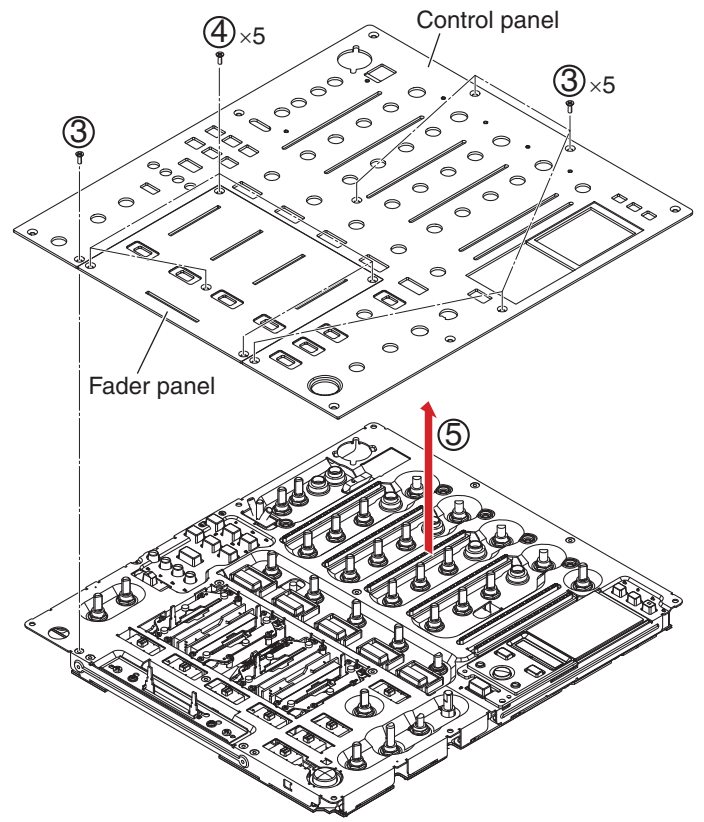
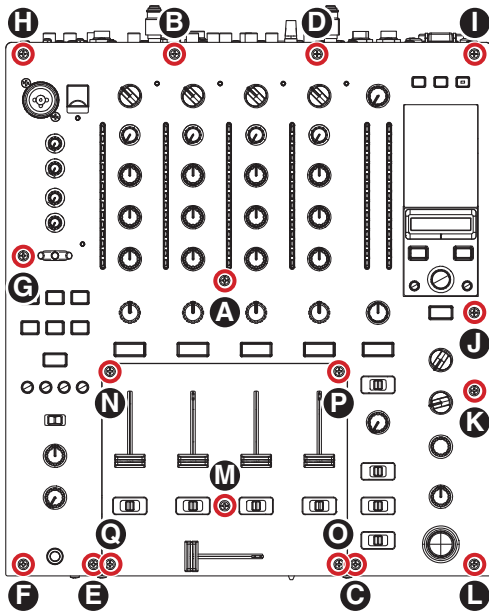


- (3) Remove the 6 screws. (CCZ30P080FTB)
- (4) Remove the 5 screws. (CCZ30P080FTB)
- (5) Remove the Control panel and Fader panel.

Note:

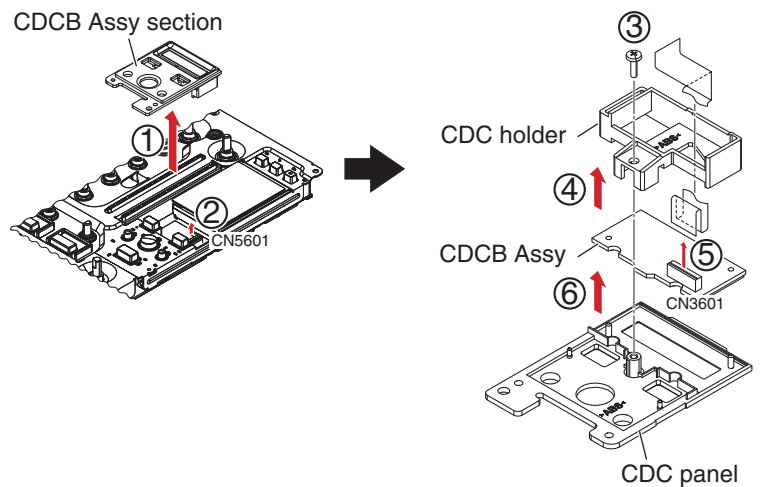
When you remove only Fader panel, it is a process of step (2), (4).

Screw tightening order
(for MAIN unit)



[3-2] CDCB Assy

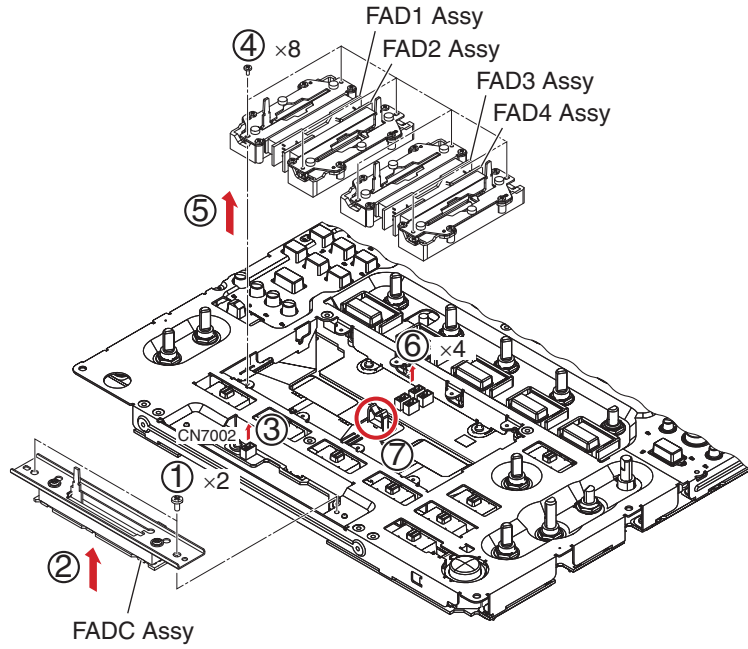
- (1) Remove the CDCB Assy section.
- (2) Disconnect the one flexible cable. (CN5601)
- (3) Remove the one screw. (BPZ26P080FTC)
- (4) Remove the CDC holder.
- (5) Disconnect the one flexible cable. (CN3601)
- (6) Remove the CDCB Assy.



• Bottom view

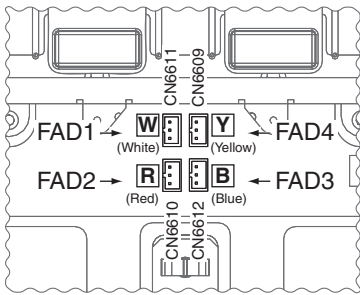
A [3-3] Fader section

- (1) Remove the two screws. (BBZ30P060FTC)
- (2) Remove the FADC Assy.
- (3) Disconnect the one connector. (CN7002)
- (4) Remove the eight screws. (BSZ20P040FTB)
- (5) Remove the FAD1 to FAD4 Assemblies.
- (6) Disconnect the four connectors. (CN6609 to 6612)
- (7) Release the jumper wire from clamber.



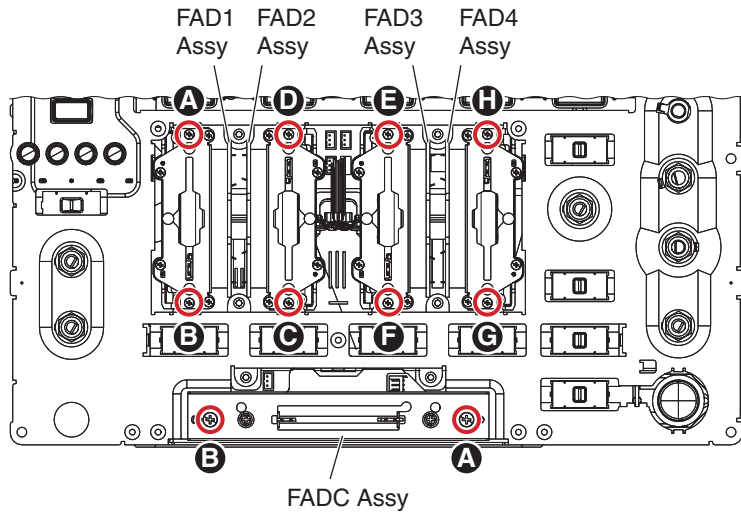
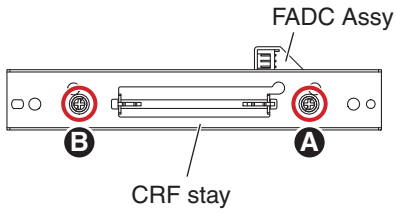
B • Connectors color

Match the color of a connected connector.



C

Screw tightening order



D

E

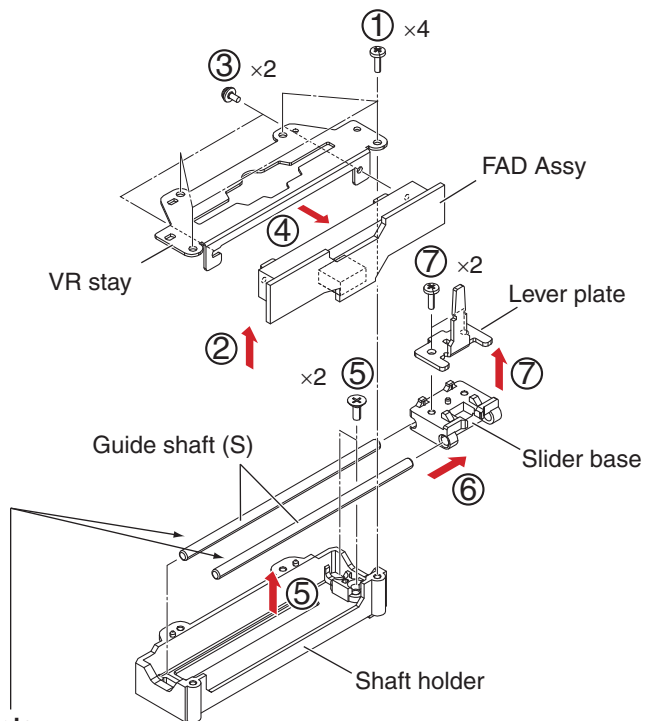
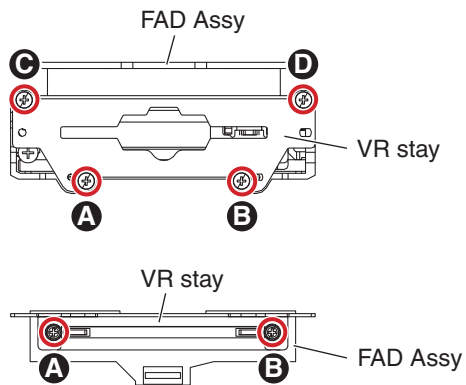
F



• FAD1 to FAD4 Assemblies

- (1) Remove the four screws. (BPZ20P060FTC)
- (2) Remove the FAD Assy with VR stay.
- (3) Remove the two screws. (PMH20P040FTC)
- (4) Remove the FAD Assy.
- (5) Remove the two screws and remove the guide shaft (S) and slider base section. (CPZ26P080FTC)
- (6) Remove the slider section from guide shaft (S).
- (7) Remove the two screws and remove the lever plate. (BPZ20P060FTC)

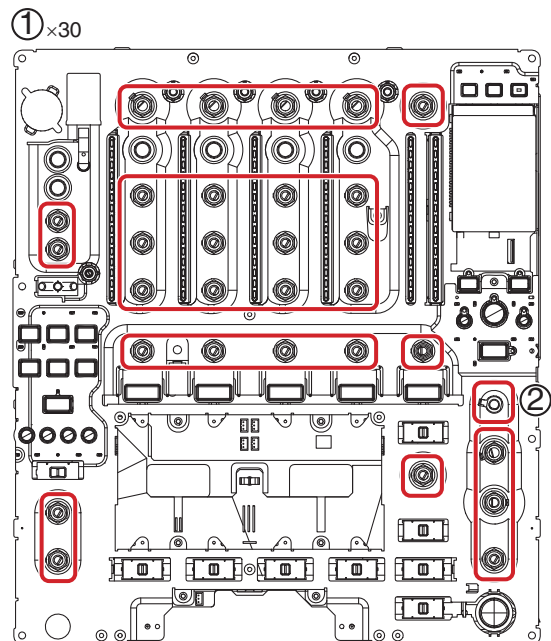
Screw tightening order



Note:
The grease application position when you assemble guide shaft(S) refer to "9.4 CONTROL PANEL SECTION (1/2)."

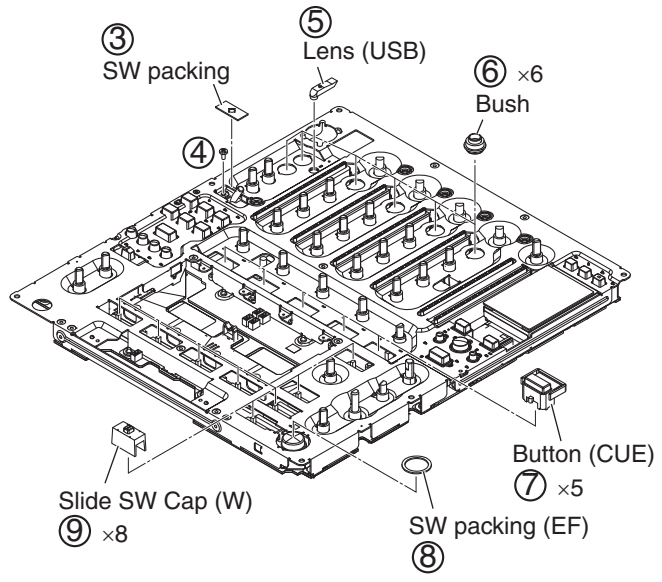
[3-4] PNLA and PNLB Assy

- (1) Remove the 30 flange nuts M9.
- (2) Remove the one nut.



A

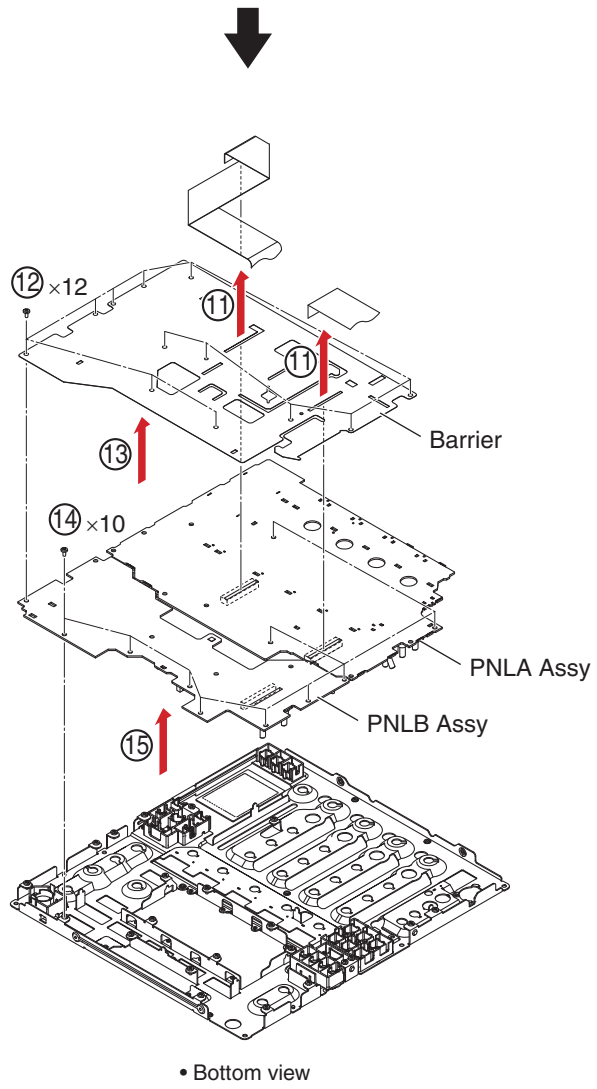
- (3) Remove the SW packing.
- (4) Remove the one screw. (AMZ26P040FTC)
- (5) Remove the lens (USB).
- (6) Remove the six bushes.
- (7) Remove the five buttons (CUE).
- (8) Remove the SW packing (EF).
- (9) Remove the eight slide SW caps (W).



B

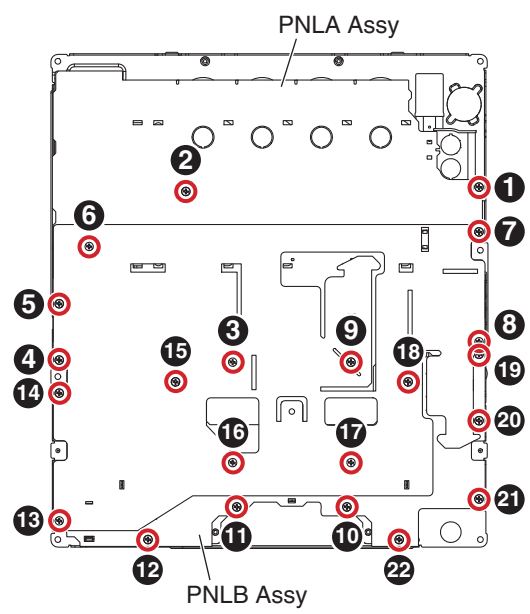
C

- (10) Reverse the control panel section.
- (11) Disconnect the two flexible cables.
- (12) Remove the 12 screws. (BBZ30P060FTC)
- (13) Remove the barrier.
- (14) Remove the 10 screws. (BBZ30P060FTC)
- (15) Remove the PNLA and PNLB assemblies.



D

Screw tightening order



E

F

• Bottom view

8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

It is recommended that you take note of the setting data before starting repair.

Use "8.5 Sheet for Confirmation of the User settings" for taking notes.

After repairing, be sure to check the version of the firmware (see "Mode 1: For confirmation of the version" in "TEST MODE"), and if it is not the latest one, update to the latest version.

Perform the each item when the following parts are replaced.

- MAIN Assy
(MAIN CPU: IC2011, FLASH MEMORY IC: IC703)
- PNLA Assy
(SUB UCOM: IC6601)



- Confirmation of the version of the firmware
- Updating to the latest version of the firmware

8.2 UPDATING OF THE FIRMWARE

[1] Downloading and Confirmation of the Updater Files

1. Download the zipped updater file for the latest firmware from Niis.
2. Unzip the downloaded file.

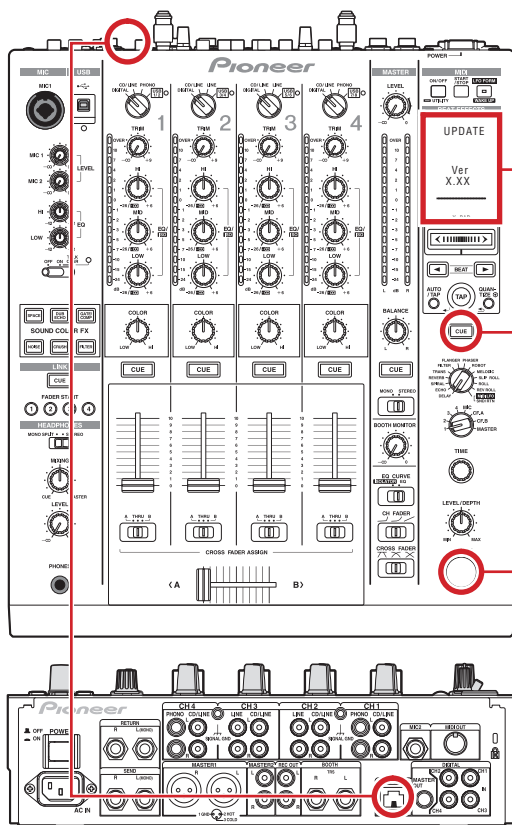
Unzipping the ZIP file generates the "DJM-900nexus_vxxx" folder.

Confirm that the following files are contained in the folder:

- ① DJM-900nexus_vxxx.exe
- ② DJM-900nexus_vxxx.upd
- ③ Update manual.pdf

- The above xxx denotes the version of new firmware.
- The extension (.exe or .upd) may not be displayed, depending on the setting of the computer.

[2] Preparation for Updating on the Main Unit



<STEP1>
Press [CUE (BEAT EFFECT)] and [ON/OFF (BEAT EFFECT)] with power button.
Move to update mode.

<STEP2>
Check the current version of your firmware by "current version" on VFD. (No need to update it if current version shows as x.x.x. It is the latest firmware.)

<STEP3>
Connect your computer with this unit by LAN cable.

Connect LAN cable to the LINK terminal on rear on this unit.

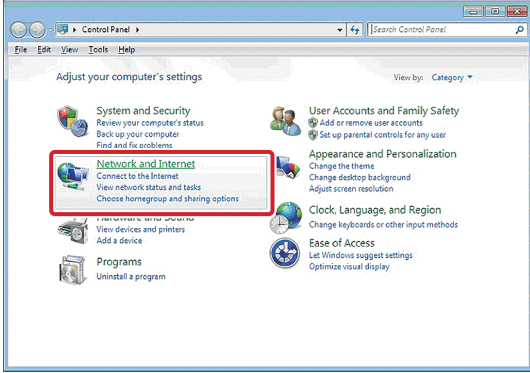
A [3] Network Setting on the PC

The network setting on the PC to be used for firmware updating must be set to DHCP or Auto IP.

For Microsoft Windows (Ex: Windows 7)

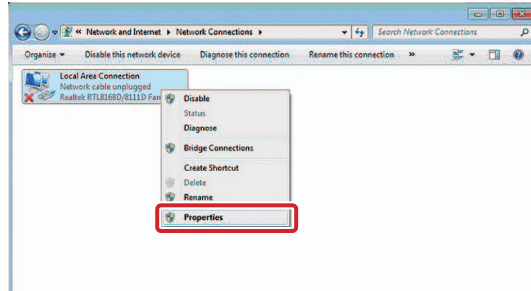
<STEP 1>

Open "Control Panel" -> "Network and Internet" -> Network Connections.



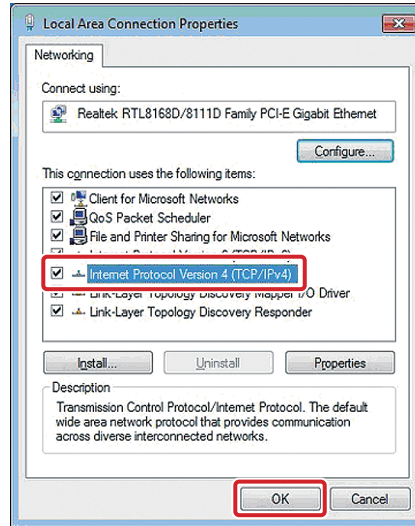
<STEP 4>

Open "Properties" of network device this unit connected. (Right click on icon -> Property)



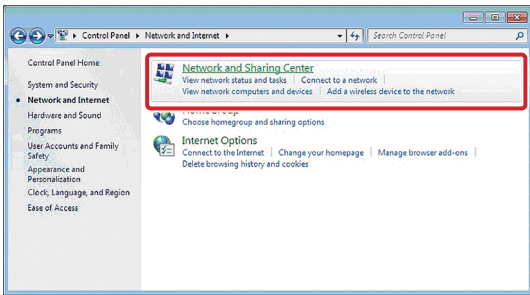
<STEP 5>

Select "Internet Protocol (TCP/IP) and click on "Properties." (For Windows XP, check the checkbox "Notify me when this connection has limited or no connectivity.")



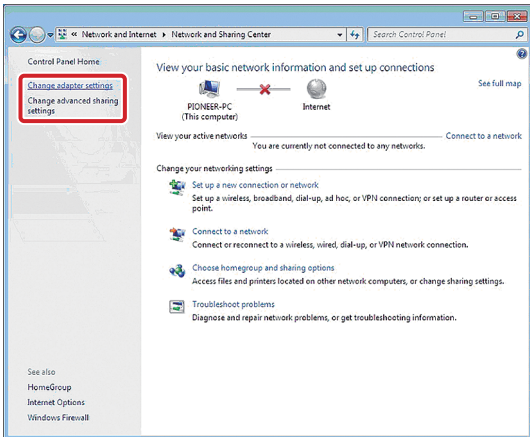
<STEP 2>

Open "Network and Sharing Center." (For Windows XP, go to <STEP 4>.)



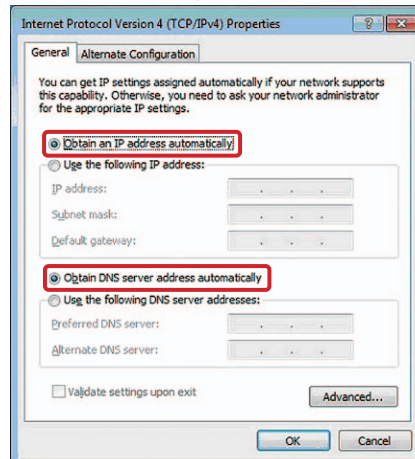
<STEP 3>

Open "Change adapter setting".



<STEP 6>

Select "Obtain an IP address automatically", "Obtain DNS server address automatically".



B

C

D

E

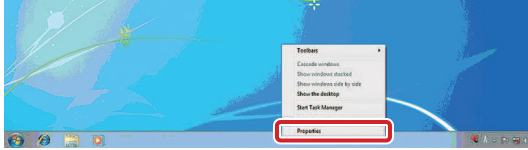
F

<STEP 7>

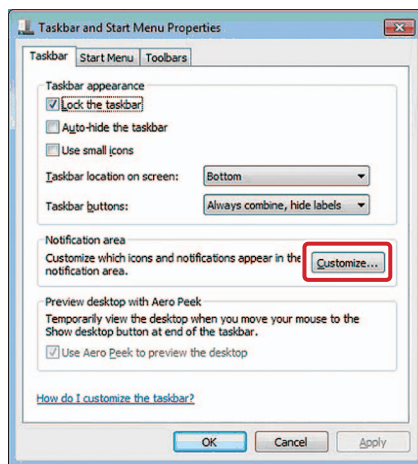
Close "Network Connections" by clicking on "OK."
(For Windows XP, this completes the network setting.)

<STEP 8>

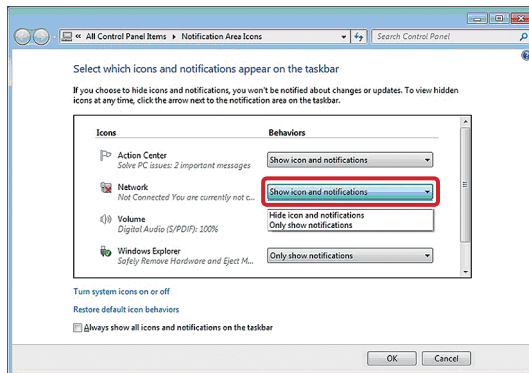
Right click on task bar -> Select "Properties".

**<STEP 9>**

Select "Notification area" then "Customize."
(For Windows Vista, check the "Network" checkbox.)

**<STEP 10>**

Select "Show icon and notifications" on network.

**<STEP 11>**

Close "Properties" by "OK".

For Mac OS X

Select "System Environment Settings," "Network,"
"Ethernet," then "Using DHCP"

A [4] Confirmation of Network Connection between the PC and this Unit

For Microsoft Windows

Check the connection status of the PC and this unit, with the icon on the task bar (on the right bottom of the PC screen).

| Icon / Message | | Status of connection | |
|----------------|---|----------------------|--|
| 7 | Vista | XP | |
| | Not Connected You are currently not connected to any networks. | | LAN cable is unconnected. Check the cable is connected. |
| | Currently connected to: Identifying... Access: Limited Connectivity | | Checking the status of connection. Wait a minute. |
| | Currently connected to: Unidentified network Access: Limited Connectivity | | DJM-900NXS is connected. Start update tool. |

C

For Mac OS X

Check the connection status of the PC and this unit, by selecting "System Environment Settings," "Network," then "Ethernet."

| | | |
|--|--|--|
| | | |
| LAN cable is unconnected. Check the cable is connected. | Checking the status of connection. Wait a minute. | DJM-900NXS is connected. Start update tool. |

D

E

F

[5] Executing Updating

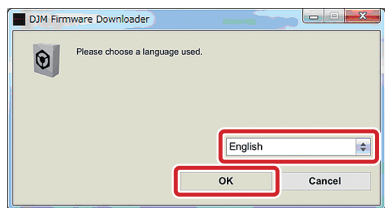
- * Close all of applications before updating.
- * If you were setting firewall by security software, it would not be able to transfer the data to mixer. Please read the operation manual of the security software or cancel the firewall.

<STEP 1>

Double click "DJM900nexus_vxxx.exe".
Start update tool.

<STEP 2>

Select language.



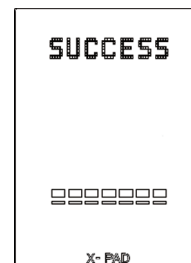
<STEP 3>

- Start updating by pressing "Start".
- * NEVER remove power/LAN cable on updating.
 - * If the waiting picture remains more than 30 seconds, the network connection might not work. Press Cancel button and update again after connecting it.



<STEP 4>

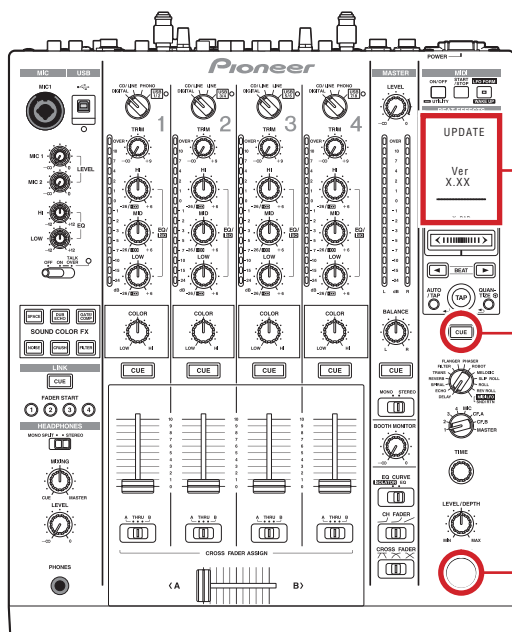
Confirm the updating completed.
Updating completed when "SUCCESS" message shows.



<STEP 5>

- Restart this unit.
- * Please adjust network setting as original if you adjusted it in 3-1.

[6] Confirmation of the Firmware Version



<STEP1>
Press [CUE (BEAT EFFECT)] and [ON/OFF (BEAT EFFECT)] with power button.
Move to update mode.

<STEP2>
Check it is the latest version.
Update was completed if it shows "x.xx".

■ Error Message and Details (for Windows)

| Title | Message | Detail |
|---------------------|--------------------------------------|--|
| Formatting Error | Cannot find the EXE file_I1 | Cannot find the EXE file. Restart the application. |
| | Cannot find the UpdateFile_I4 | Cannot find the update file or update file is not correct. Download the file and update again. |
| | Cannot connect to the MIXER_I5 | Failed connection with mixer. Check the status of network and restart the application. |
| | Cannot find the Network Interface_I6 | Cannot find the network setting to connect with mixer. Check the status of network and restart the application. |
| | Cannot find the Network Interface_I9 | Cannot find network interface to connect with mixer. Check the status of network and restart the application. |
| Connection Error | Cannot connect the MIXER_C1 | Could not connect with mixer. Check the status of network and restart the application. |
| | Cannot connect the MIXER_C2 | Could not connect with mixer. Check the status of network and restart the application. |
| | Cannot send the update data_C4 | Failed data transfer to mixer. Stand up mixer again by update mode and restart the application. |
| Data Transfer Error | Cannot find the UpdateFile_S1 | Cannot find the update file. Download the file and update again. |
| | Cannot find the UpdateFile_S2 | Failed data transfer to mixer. The file might have a problem. Stand up mixer again by update mode and restart the application. |
| | Cannot find the UpdateFile_S3 | Failed data transfer to mixer. Stand up mixer again by update mode and restart the application. |

■ Error Message and Details (for Mac)

| Title | Message | Detail |
|---------------------|--------------------------------------|--|
| Formatting Error | Cannot find the EXE file_I2 | Cannot find the EXE file. Restart the application. |
| | Cannot find the EXE file_I3 | Cannot find the EXE file. Restart the application. |
| | Cannot find the UpdateFile_I4 | Cannot find the update file or update file is not correct. Download the file and update again. |
| | Cannot get the Host name_I7 | Cannot get the host name. Check the status of network and restart the application. |
| | Cannot get the IP Address_I8 | Cannot get IP address. Check the status of network and restart application. |
| | Cannot find the Network Interface_I9 | Cannot find network I/F to connect with mixer. Check the status of network and restart the application. |
| Connection Error | Cannot connect the MIXER_C1 | Could not connect with mixer. Check the status of network and restart the application. |
| | Cannot connect the MIXER_C2 | Could not connect with mixer. Check the status of network and restart the application. |
| | Cannot connect the MIXER_C3 | Could not connect with mixer. Check the status of network and restart the application. |
| | Cannot send the update data_C4 | Failed data transfer to mixer. Stand up mixer again by update mode and restart the application. |
| Data Transfer Error | Cannot find the UpdateFile_S1 | Cannot find the update file. Download the file and update again. |
| | Cannot find the UpdateFile_S2 | Failed data transfer to mixer. The file might have a problem. Stand up mixer again by update mode and restart the application. |
| | Cannot find the UpdateFile_S3 | Failed data transfer to mixer. Stand up mixer again by update mode and restart the application. |

8.3 HOW TO CONFIRM THE DVS

Necessary Items

- PC with the USB driver and TRAKTOR (demo version or TRAKTOR DDJ-T1 EDITION possible) installed
Can download the Traktor demo version from the following URL.
<http://www.native-instruments.com/#/en/products/dj/traktor-pro-2/?page=1975>
- Media (CD, etc.) for checking operations, CDJ player

Check Procedures

1. Connect this unit and a PC, using the USB cable.
 2. Connect the audio output of CDJ Player to the CD/LINE of CH1 of this unit.
 3. Set the DIGITAL, CD/LINE, PHONO, LINE, and USB */* selectors to USB1/2.
 4. For details on settings to be made on the PC, see “Settings for the Driver” and “Settings on TRAKTOR” below.
 5. Play back the CDJ Player, and check the following items:
 - The level meters of Input Routing and Master Out on the TRAKTOR move in sync with audio output signals (see the photos below).
 - The USB audio input indicator of CH1 turn on.
 - The Master Out is output normally.
- *Repeat the above steps for channels 2 to 4, to check the DVS paths.

[TRAKTOR Input Routing level meter]



[USB audio input indicator]



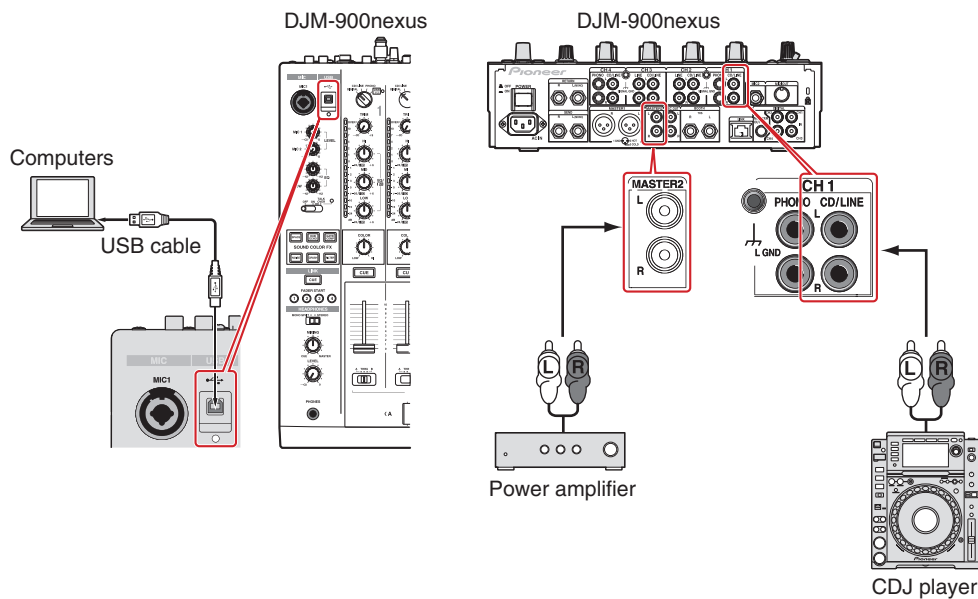
[TRAKTOR Master Out level meter]



Note:

The Master Out signal will not be output if the MAIN volume control (indicated with a red frame) is set to the minimum volume position. If the MAIN volume indicators are not displayed on the screen, set the TRAKTOR screen to Full screen.

[Connection Diagram (When the CDJ Player is Connected to CH1)]



A Settings for the Driver

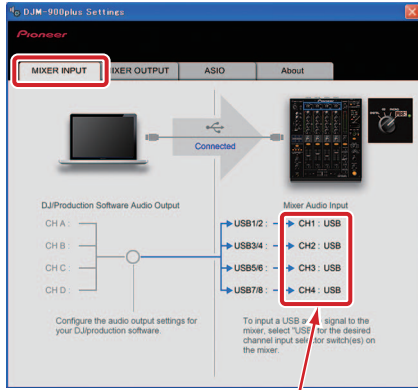
Start up the "DJM-900nexus Settings Utility".

(Reference)

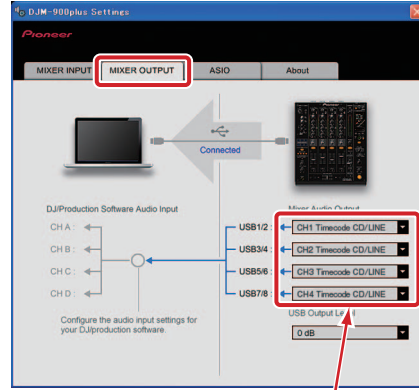
For Windows

Click [Start] menu → [All Programs] → [Pioneer] → [DJM-900nexus] → [DJM-900nexus Settings Utility].

MIXER INPUT



MIXER OUTPUT



B

When the DIGITAL, CD/LINE, PHONO, LINE, and USB */* selectors of the mixer are set to USB*/*, "USB" must be displayed on the PC screen.

Set the Timecode CD/LINE.

C

Settings on TRAKTOR

① After starting TRAKTOR, select the deck layout, as shown below.

View > Layouts, or Layout selector

If a 4-deck screen option is not available, see Note 1.

D



E

F



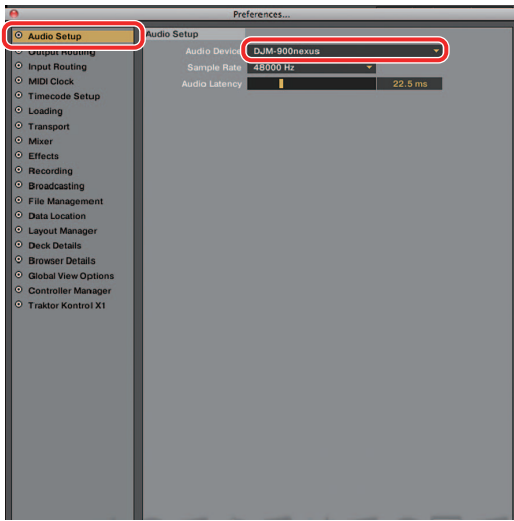
② Click on the ▼ symbol beneath A to D then select “Audio Through” from the pulldown menu.



③ Select Traktor then Preferences, or click on the Preferences button.



A ④ In Audio Setup, select DJM-900nexus.



With the above settings, CH 1 of the mixer is assigned to Deck A, CH 2 to Deck B, CH 3 to Deck C, and CH 4 to Deck D.

⑦ Close the Preferences window, by clicking on the Close (x) button.

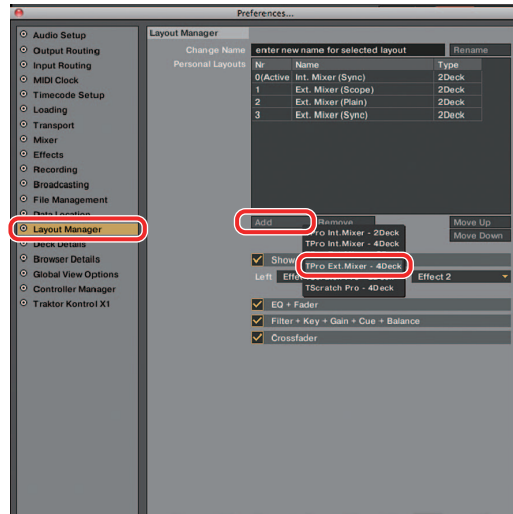
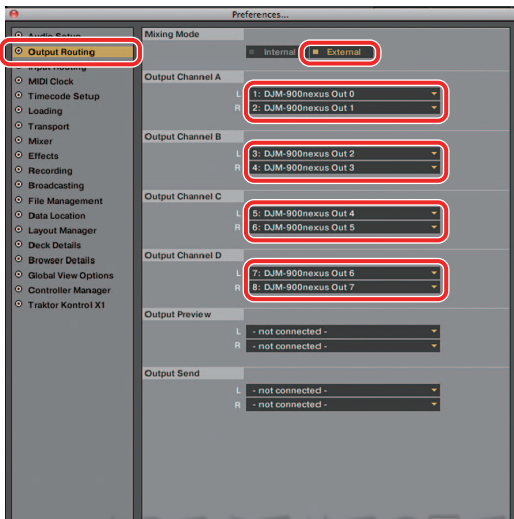
B

Note 1:
How to add a 4-deck screen option

If a 4-deck screen option is not available on the Layouts menu, proceed as follows:

Traktor > Preferences
In Layout Manager, click on "Add" then select "Tpro Ext.Mixer - 4Deck."

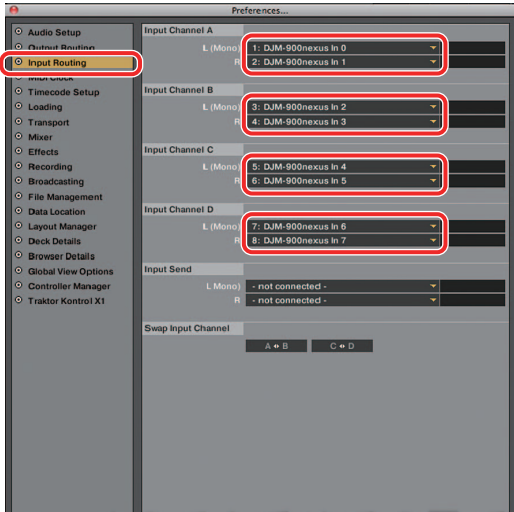
⑤ In Output Routing, set Mixing Mode to External, and Output Channel A-D, as shown in the figure below.



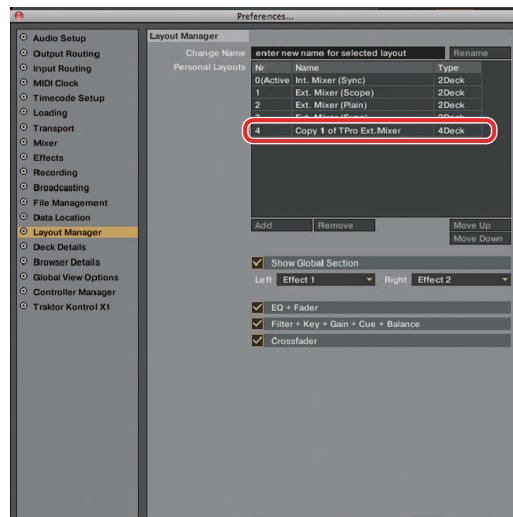
C

D

⑥ In Input Routing, set Input Channel A-D, as shown in the figure below.



After confirming that 4Deck is added to Layout, close the Preferences window, by clicking on the Close (x) button.



E

F

8.4 USER SETTABLE ITEMS

| | Setting Item | FL Display | Setting Area | Initial Value (Factory settings) | Part No. | Part Name | Ref No. | Assy | Content to be Stored |
|------------|-----------------------------|------------|------------------------|----------------------------------|----------|-----------|---------|------|----------------------|
| USER SETUP | Fader Start | F.S. | ON/OFF | OFF | DYW1798 | Flash ROM | IC502 | MAIN | UTILITY setting |
| | MIDI CH | MIDI CH | 1 to 16 | 1 | | | | | |
| | MIDI Button Type | MIDI BT | Toggle/Trigger | Toggle | | | | | |
| | TALK OVER MODE | TLK MOD | ADVANCED / NORMAL | ADVANCED | | | | | |
| | TALK OVER LEVEL | TLK LVL | -24dB/-18dB/-12dB/-6dB | -18dB | | | | | |
| CLUB SETUP | Digital Master Out Level | DOUT LV | -19dB/-15dB/-10dB/-5dB | -19dB | | | | | |
| | Digital Out Sampling Rate | DOUT FS | 48kHz/96kHz | 96kHz | | | | | |
| | MASTER ATT. | MST ATT | -6dB/-3dB/0dB | 0dB | | | | | |
| | Auto Standby | AUTOSTB | ON/OFF | ON | | | | | |
| | Mic Output To Booth Monitor | MIC BTH | ON/OFF | ON | | | | | |
| | PC Utility | PC UTLY | ON/OFF | ON | | | | | |
| | Factory Reset | INITIAL | YES/NO | NO | | | | | |

8.5 SHEET FOR CONFIRMATION OF THE USER SETTING

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

USER SETUP

Fader Start

| | |
|-----|----|
| OFF | ON |
| | |

MIDI CH

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

MIDI Button Type

| | |
|-----|-----|
| TGL | TRG |
| | |

TALK OVER MODE

| | |
|-----|-----|
| NOR | ADV |
| | |

TALK OVER LEVEL

| | | | |
|-------|-------|-------|------|
| -24dB | -18dB | -12dB | -6dB |
| | | | |

CLUB SETUP

Digital Master Out Level

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

Digital Out Sampling Rate

| | |
|-------|-------|
| 48kHz | 96kHz |
| | |

MASTER ATT.

| | | |
|------|------|-----|
| -6dB | -3dB | 0dB |
| | | |

Auto Standby

| | |
|-----|----|
| OFF | ON |
| | |

Mic Output To Booth Monitor

| | |
|-----|----|
| OFF | ON |
| | |

PC Utility

| | |
|-----|----|
| OFF | ON |
| | |

Factory Reset

NEVER perform FACTORY RESET before taking note of setting data.



5



6



7



8



A



B



C



D



E



F



5



6

DJM-900NXS



7



8



1 2 3 4

9. EXPLODED VIEWS AND PARTS LIST

NOTES:

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

9.1 PACKING SECTION

SYXJ8 only

KXJ5 only

4 or 5 or 6 or 7 or 8

15

88

DJM-900NXS

1 2 3 4

(1) PACKING SECTION PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> |
|-----------------|--------------------------|------------------------|
| ⚠ | 1 Power Cord | See Contrast table (2) |
| | 2 USB Cable | DDE1128 |
| | 3 CD-ROM | DXX2619 |
| | 4 Operating Instructions | See Contrast table (2) |
| | 5 Operating Instructions | See Contrast table (2) |
| | 6 Operating Instructions | See Contrast table (2) |
| | 7 Operating Instructions | See Contrast table (2) |
| | 8 Operating Instructions | See Contrast table (2) |
| NSP | 9 Warranty Card (WY) | See Contrast table (2) |
| NSP | 10 Flier | See Contrast table (2) |
| NSP | 11 Recycle Label (M) | See Contrast table (2) |
| NSP | 12 Polyethylene Bag | AHG7117 |
| | 13 Pad A | DHA1854 |
| | 14 Pad B | DHA1855 |
| | 15 Packing Case | See Contrast table (2) |
| | 16 Packing Sheet | RHC1023 |

(2) CONTRAST TABLE

DJM-900NXS/SYXJ8, UXJCB, LXJ, KXJ5 and XJCN5 are constructed the same except for the following:

| Mark | No. | Symbol and Description | DJM-900NXS /SYXJ8 | DJM-900NXS /UXJCB | DJM-900NXS /LXJ | DJM-900NXS /KXJ5 | DJM-900NXS /XJCN5 |
|------|-----|--|----------------------|----------------------|--------------------|---------------------|----------------------|
| ⚠ | 1 | Power Cord | ADG7062 | DDG1108 | ADG7062 | XDG3066 | ADG7105 |
| | 4 | Operating Instructions (En, Fr, De, It, Ni, Es, Ru) | DRB1533 | Not used | Not used | Not used | Not used |
| | 5 | Operating Instructions (En) | Not used | DRB1542 | Not used | Not used | Not used |
| | 6 | Operating Instructions (En, Es, Zhtw) | Not used | Not used | DRB1543 | Not used | Not used |
| | 7 | Operating Instructions (Ko) | Not used | Not used | Not used | DRB1545 | Not used |
| | 8 | Operating Instructions (En, Zhcn) | Not used | Not used | Not used | Not used | DRB1544 |
| NSP | 9 | Warranty Card (WY) | ARY7107 | Not used | Not used | Not used | Not used |
| NSP | 10 | Flier | DRH1108 | DRH1109 | DRH1109 | DRH1107 | DRH1107 |
| NSP | 11 | Recycle Label (M) | Not used | Not used | Not used | DRW2307 | Not used |
| | 15 | Packing Case | DHG2937 | DHG2977 | DHG2978 | DHG2981 | DHG2980 |

9.2 EXTERIOR SECTION

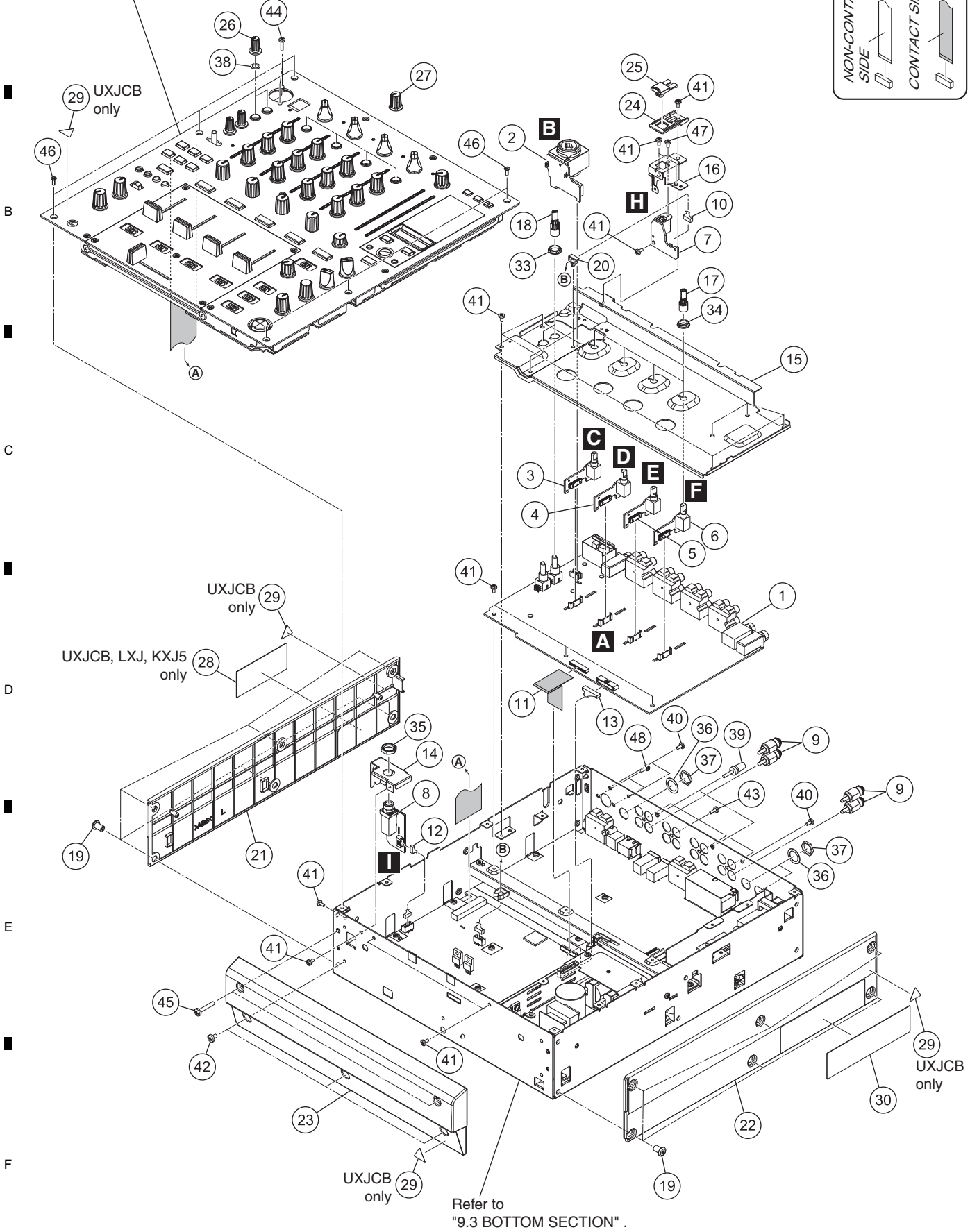
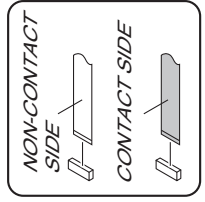
1

2

3

4

A Refer to "9.4 CONTROL PANEL SECTION (1/2)".



1

2

3

4

(1) EXTERIOR SECTION PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> | <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> |
|-----------------|--------------------|-----------------|-----------------|----------------------|------------------------|
| 1 | INPUT Assy | DWX3193 | 26 | Rotary SW Knob S (B) | DAA1178 |
| 2 | MIC1 Assy | DWX3207 | 27 | Rotary SW Knob S (C) | DAA1204 |
| 3 | TRM1 Assy | DWX3203 | NSP | 28 Caution Label | See Contrast table (2) |
| 4 | TRM2 Assy | DWX3204 | NSP | 29 Label | See Contrast table (2) |
| 5 | TRM3 Assy | DWX3205 | NSP | 30 Name Label | See Contrast table (2) |
| 6 | TRM4 Assy | DWX3206 | 31 | ••••• | |
| 7 | USB1 Assy | DWX3192 | 32 | ••••• | |
| 8 | HPJK Assy | DWX3208 | 33 | Flange Nut M9 | DBN1008 |
| 9 | Short Pin Plug | AKM7008 | 34 | Flange Nut M7 | DBN1011 |
| 10 | USB Cable (5P) | DDA1041 | 35 | Nut M12 | DBN1018 |
| 11 | 40P FFC | DDD1550 | 36 | Washer | DEC2920 |
| 12 | Connector Assy | PF04PP-S12 | 37 | Nut | NKX2FTC |
| 13 | Connector Assy | PF11PP-D07 | 38 | Washer | WA62D095D025 |
| 14 | HP Stay | DNF1820 | 39 | Terminal Screw | AKE-031 |
| 15 | TRIM Bracket | DNF1864 | 40 | Screw | BBZ30P060FTB |
| 16 | USB Bracket | DNF1868 | 41 | Screw | BBZ30P060FTC |
| 17 | Extension Shaft A | DNK5365 | 42 | Screw | BCZ40P060FTB |
| 18 | Extension Shaft B | DNK5366 | 43 | Screw | BPZ30P080FTB |
| 19 | Rivet (Plastic) | AEC1877 | 44 | Screw | BPZ30P120FTB |
| 20 | Locking Mini Clamp | DEC2439 | 45 | Screw | BSZ40P220FTB |
| 21 | Side Panel L | DNK5363 | 46 | Screw | CCZ30P080FTB |
| 22 | Side Panel R | DNK5364 | 47 | Screw (M3x5) | DBA1340 |
| 23 | Front Panel | DNK5845 | 48 | Screw | PMH30P100FTB |
| 24 | USB Panel | DNK5847 | | | |
| 25 | USB Cover B | DNK5868 | | | |

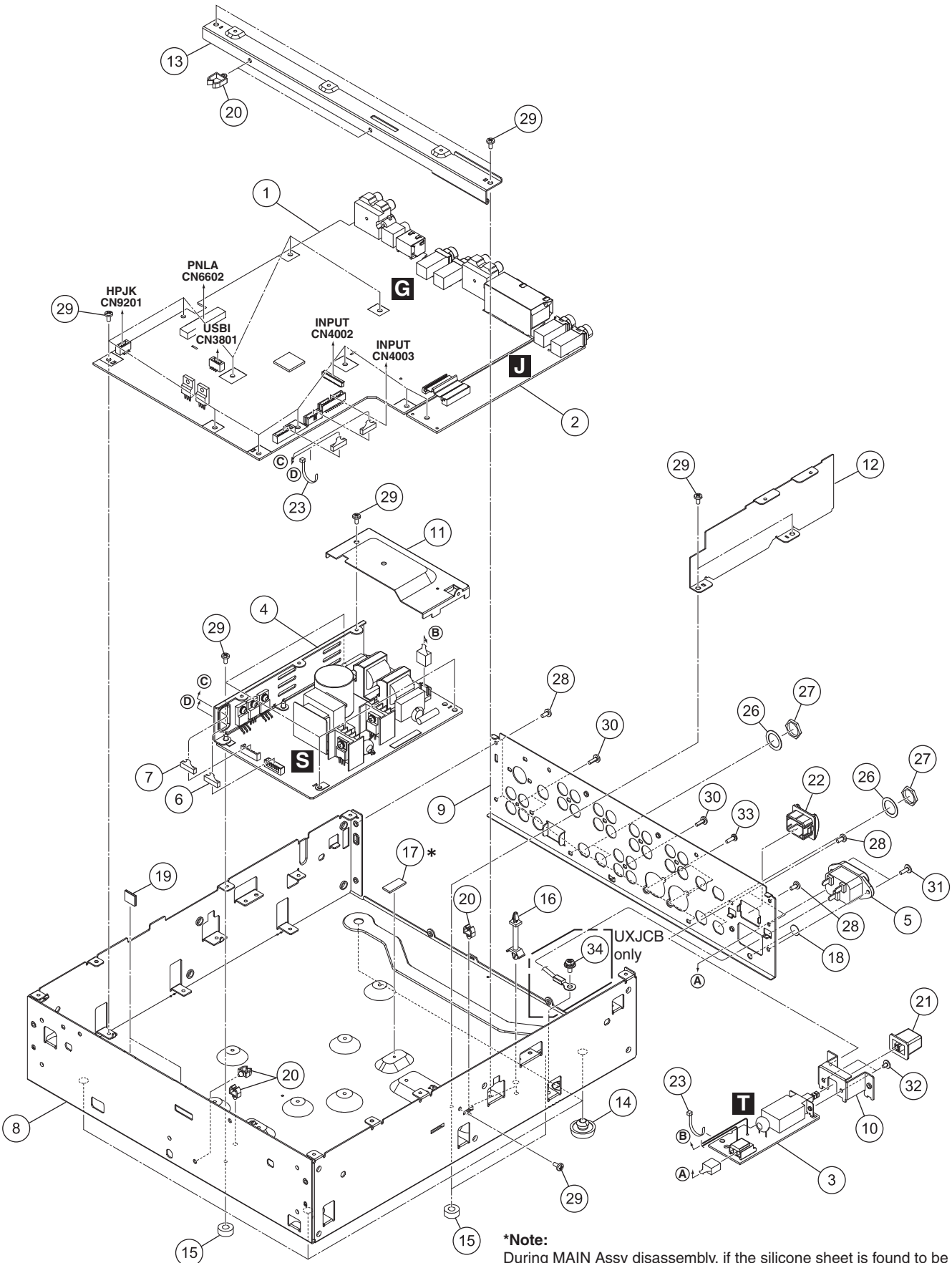
(2) CONTRAST TABLE

DJM-900NXS/SYXJ8, UXJCB, LXJ, KXJ5 and XJCN5 are constructed the same except for the following:

| <u>Mark</u> | <u>No.</u> | <u>Symbol and Description</u> | <u>DJM-900NXS /SYXJ8</u> | <u>DJM-900NXS /UXJCB</u> | <u>DJM-900NXS /LXJ</u> | <u>DJM-900NXS /KXJ5</u> | <u>DJM-900NXS /XJCN5</u> |
|-------------|------------|-------------------------------|--------------------------|--------------------------|------------------------|-------------------------|--------------------------|
| NSP | 28 | Caution Label | Not used | DRW2429 | DRW2430 | DRW2432 | Not used |
| NSP | 29 | Label | Not used | DRW1975 | Not used | Not used | Not used |
| NSP | 30 | Name Label | DRW2463 | DRW2472 | DRW2473 | DRW2476 | DRW2475 |

9.3 BOTTOM SECTION

A
B
C
D
E
F



***Note:**
During MAIN Assy disassembly, if the silicone sheet is found to be deformed, replace it with a new one.

BOTTOM SECTION PARTS LIST

| Mark No. | Description | Part No. |
|-----------------|------------------------|------------------------|
| | 1 MAIN Assy | DWX3190 |
| | 2 SEND Assy | DWX3195 |
| | 3 ACSW Assy | DWR1490 |
| ⚠ | 4 POWER SUPPLY Assy | DWR1492 |
| ⚠ | 5 AC Inlet Assy | See Contrast table (2) |
| | 6 Connector Assy | DKP3901 |
| | 7 Connector Assy | PF06EP-S22 |
| NSP | 8 Chassis | DNA1410 |
| | 9 Rear Panel | See Contrast table (2) |
| | 10 Bracket PSW | DNF1759 |
| | 11 Power Shield | DNF1815 |
| | 12 AC Shield | DNF1816 |
| | 13 Center Stay | DNF1867 |
| | 14 Foot (Rubber) | REC-434 |
| NSP | 15 Spacer | AEB7092 |
| | 16 PCB Support | AEC7513 |
| NSP | 17 Silicon Rubber D5 L | DEB1456 |
| | 18 Blind Label | DEC2928 |
| | 19 Tape | DEC3053 |
| | 20 Holder | VEC1355 |
| | 21 Power Knob | DAC2306 |
| | 22 Power Knob Guard | DNK4534 |
| | 23 Binder | ZCA-SKB90BK |
| | 24 ••••• | |
| | 25 ••••• | |
| | 26 Washer | DEC2920 |
| | 27 Nut | NKX2FTC |
| | 28 Screw | BBZ30P060FTB |
| | 29 Screw | BBZ30P060FTC |
| | 30 Screw | BPZ30P080FTB |
| | 31 Screw | IBZ30P080FTB |
| | 32 Screw | IMZ30P040FTC |
| | 33 Screw | PPZ30P080FTB |
| | 34 Screw | See Contrast table (2) |

(2) CONTRAST TABLE

DJM-900NXS/SYXJ8, UXJCB, LXJ, KXJ5 and XJCN5 are constructed the same except for the following:

| Mark | No. | Symbol and Description | DJM-900NXS /SYXJ8 | DJM-900NXS /UXJCB | DJM-900NXS /LXJ | DJM-900NXS /KXJ5 | DJM-900NXS /XJCN5 |
|-------------|------------|-------------------------------|------------------------------|------------------------------|----------------------------|-----------------------------|------------------------------|
| ⚠ | 5 | AC Inlet Assy (2P) | DKP3762 | Not used | DKP3762 | DKP3762 | DKP3762 |
| ⚠ | 5 | AC Inlet Assy (3P) | Not used | DKP3927 | Not used | Not used | Not used |
| | 9 | Rear Panel | DNC2020 | DNC2037 | DNC2038 | DNC2041 | DNC2040 |
| | 34 | Screw | Not used | PMH40P080FTC | Not used | Not used | Not used |

9.4 CONTROL PANEL SECTION (1/2)

1

2

3

4

A

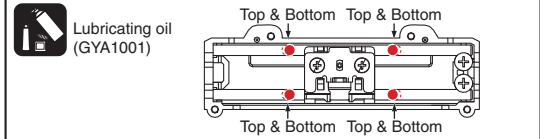
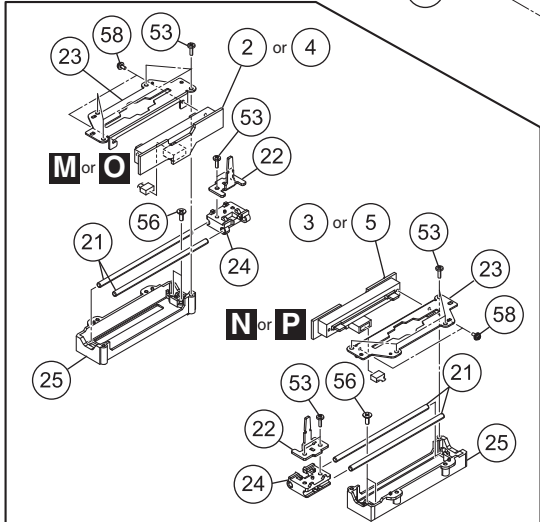
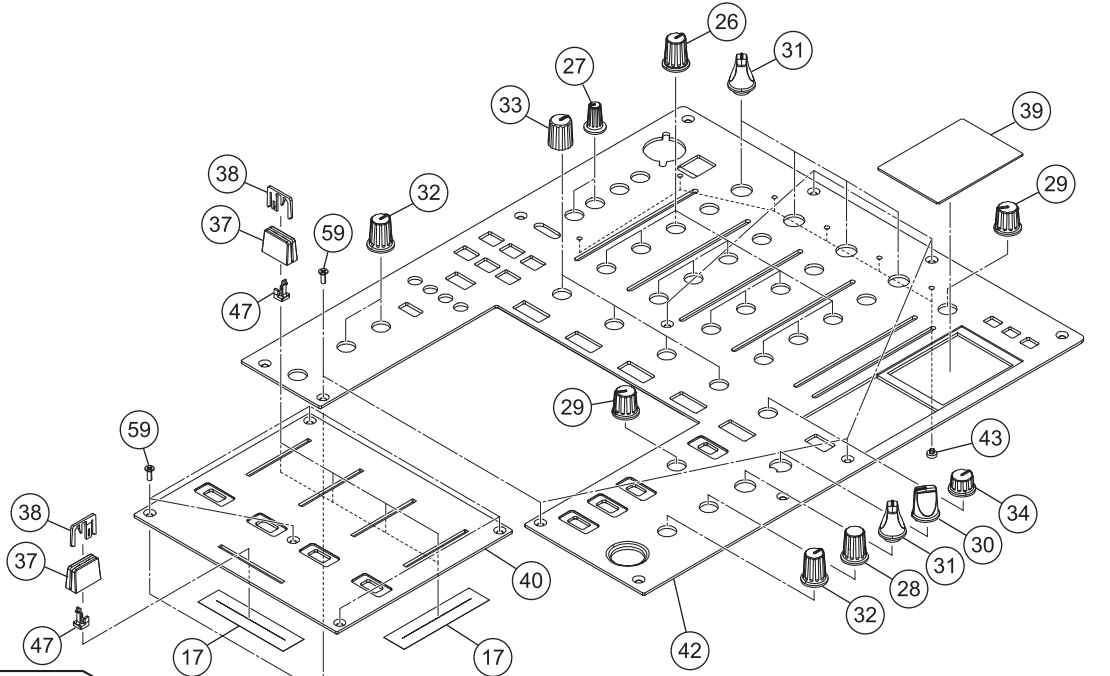
B

C

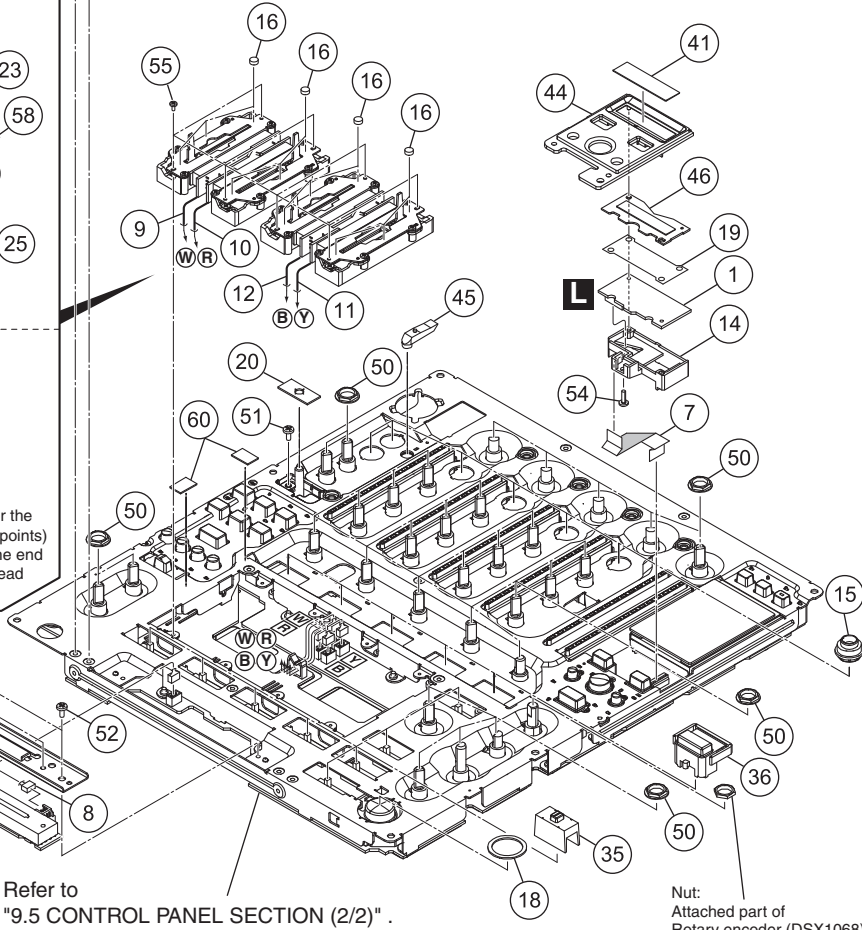
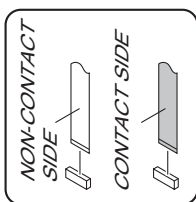
D

E

F



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



Refer to "9.5 CONTROL PANEL SECTION (2/2)".

Nut:
Attached part of Rotary encoder (DSX1068)

1

2

3

4

CONTROL PANEL SECTION (1/2) PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> | <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> | |
|-----------------|----------------------|-----------------|-----------------|---------------------|-----------------|---|
| 1 | CDCB Assy | DWX3191 | 46 | Lens (CDC) | DNK5871 | |
| 2 | FAD1 Assy | DWX3198 | 47 | Slider Knob Stopper | DNK5888 | A |
| 3 | FAD2 Assy | DWX3199 | 48 | ••••• | | |
| 4 | FAD3 Assy | DWX3200 | 49 | ••••• | | |
| 5 | FAD4 Assy | DWX3201 | 50 | Flange Nut M9 | DBN1008 | |
| 6 | FADC Assy | DWX3202 | 51 | Screw | AMZ26P040FTC | |
| 7 | FFC | DDD1582 | 52 | Screw | BBZ30P060FTC | |
| 8 | Connector Assy | PF03PP-B07 | 53 | Screw | BPZ20P060FTC | |
| 9 | Connector Assy | PF03PP-B12 | 54 | Screw | BPZ26P080FTC | |
| 10 | Connector Assy | PF03PP2B07 | 55 | Screw | BSZ20P040FTB | |
| 11 | Connector Assy | PF03PP4B12 | 56 | Screw | CPZ26P080FTC | B |
| 12 | Connector Assy | PF03PP6B07 | 57 | Screw | IMZ30P040FTC | |
| 13 | CRF Stay | DNF1870 | 58 | Screw | PMH20P040FTC | |
| 14 | CDC Holder | DNK5842 | 59 | Screw | CCZ30P080FTB | |
| 15 | Bush | DNK5974 | 60 | Spacer TFTB | DEC3300 | |
| 16 | SW Cushion HH48/2 | DEC2538 | | | | |
| 17 | Fader Packing | DEC2903 | | | | |
| 18 | SW Packing (EF) | DEC2929 | | | | |
| 19 | CDC Tape | DEC3324 | | | | |
| 20 | SW Packing | DED1177 | | | | C |
| NSP 21 | Guide Shaft (S) | DLA1918 | | | | |
| 22 | Lever Plate | DNH2954 | | | | |
| 23 | VR Stay | DNH2955 | | | | |
| 24 | Slider Base | DNK5851 | | | | |
| 25 | Shaft Holder | DNK5852 | | | | |
| 26 | Rotary SW Knob (B) | DAA1176 | | | | |
| 27 | Rotary SW Knob S (A) | DAA1177 | | | | |
| 28 | Rotary SW Knob (C) | DAA1180 | | | | |
| 29 | Rotary SW Knob (MA) | DAA1198 | | | | D |
| 30 | Select Knob | DAA1205 | | | | |
| 31 | FX Sel Knob | DAA1213 | | | | |
| 32 | Rotary Knob (BN) | DAA1220 | | | | |
| 33 | Rotary SW Knob (HM) | DAA1256 | | | | |
| 34 | Rotary Knob Low (BN) | DAA1265 | | | | |
| 35 | Slide SW Cap (W) | DAC2401 | | | | |
| 36 | Button (CUE) | DAC2503 | | | | |
| 37 | Slider Knob 1 | DAC2684 | | | | |
| 38 | Slider Knob 2 | DAC2685 | | | | E |
| 39 | FL Panel | DAH2829 | | | | |
| 40 | Fader Panel | DAH2830 | | | | |
| 41 | CDC Sheet | DEC3325 | | | | |
| 42 | Control Panel | DNB1186 | | | | |
| 43 | Lens | DNK4532 | | | | |
| 44 | CDC Panel | DNK5846 | | | | |
| 45 | Lens (USB) | DNK5848 | | | | F |

9.5 CONTROL PANEL SECTION (2/2)

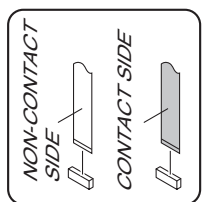
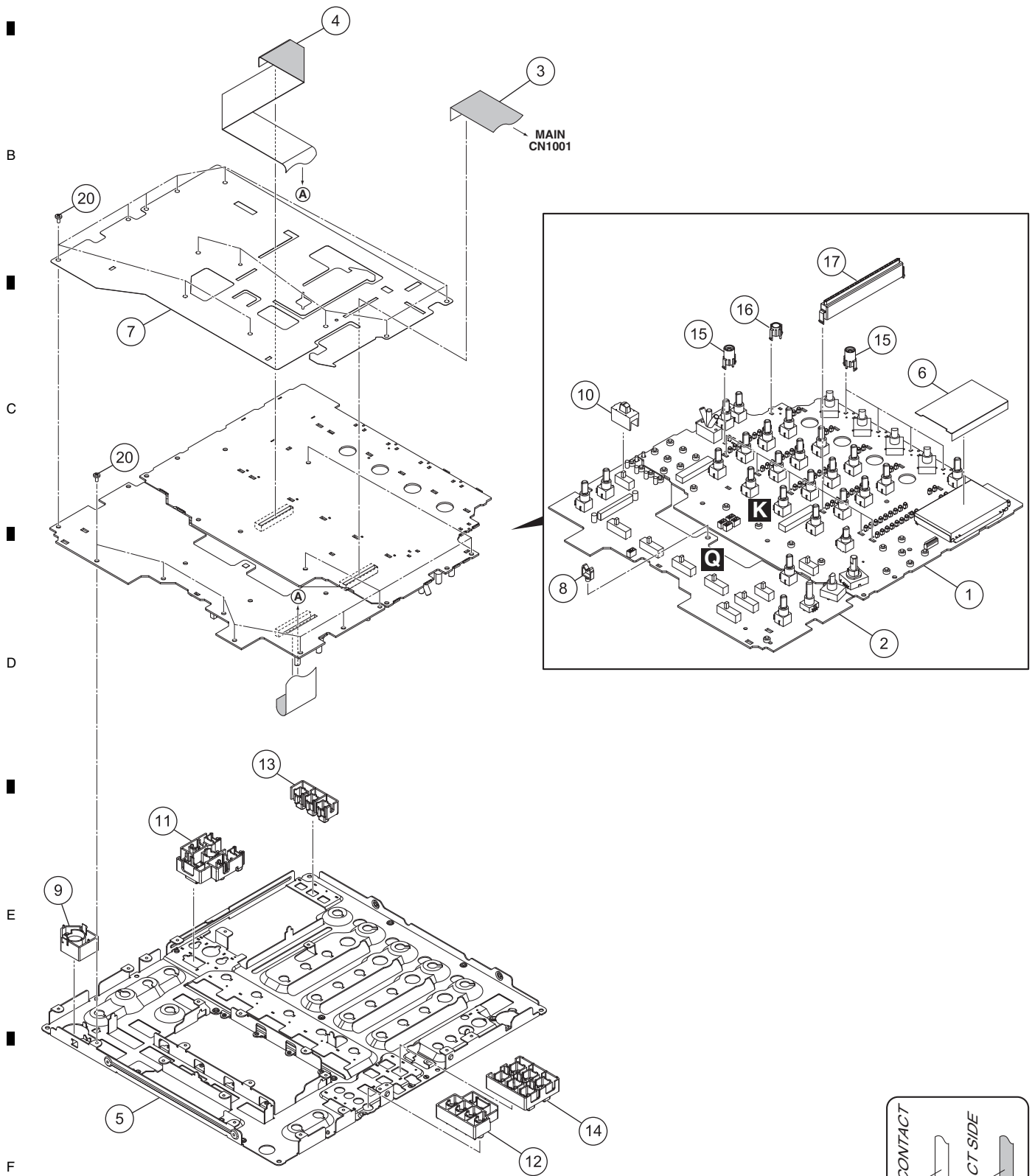
1

2

3

4

A • Bottom view



1

2

3

4

CONTROL PANEL SECTION (2/2) PARTS LIST

| Mark No. | Description | Part No. | |
|-----------------|--------------------|-----------------|---|
| 1 | PNLA Assy | DWX3196 | |
| 2 | PNLB Assy | DWX3197 | A |
| 3 | 31P FFC | DDD1551 | |
| 4 | 31P FFC | DDD1553 | |
| 5 | Panel Stay | DND1265 | |
| 6 | Barrier FL | DEC3351 | |
| 7 | Barrier | DEC3382 | |
| 8 | Wire Saddle | XEC3100 | |
| 9 | Effect Knob | DAC2304 | |
| 10 | Slide SW Cap | DAC2400 | |
| 11 | Button (TAP) | DAC2653 | B |
| 12 | Button (LINK) | DAC2654 | |
| 13 | Button (MIDI) | DAC2655 | |
| 14 | Button (CFX) | DAC2656 | |
| 15 | Lens Holder | DNK4533 | |
| 16 | Lens Holder (S) | DNK5849 | |
| 17 | Label Meter Assy | DXB1882 | |
| 18 | | | |
| 19 | | | |
| 20 | Screw | BBZ30P060FTC | C |

10. SCHEMATIC DIAGRAM

10.1 INPUT ASSY (1/11)

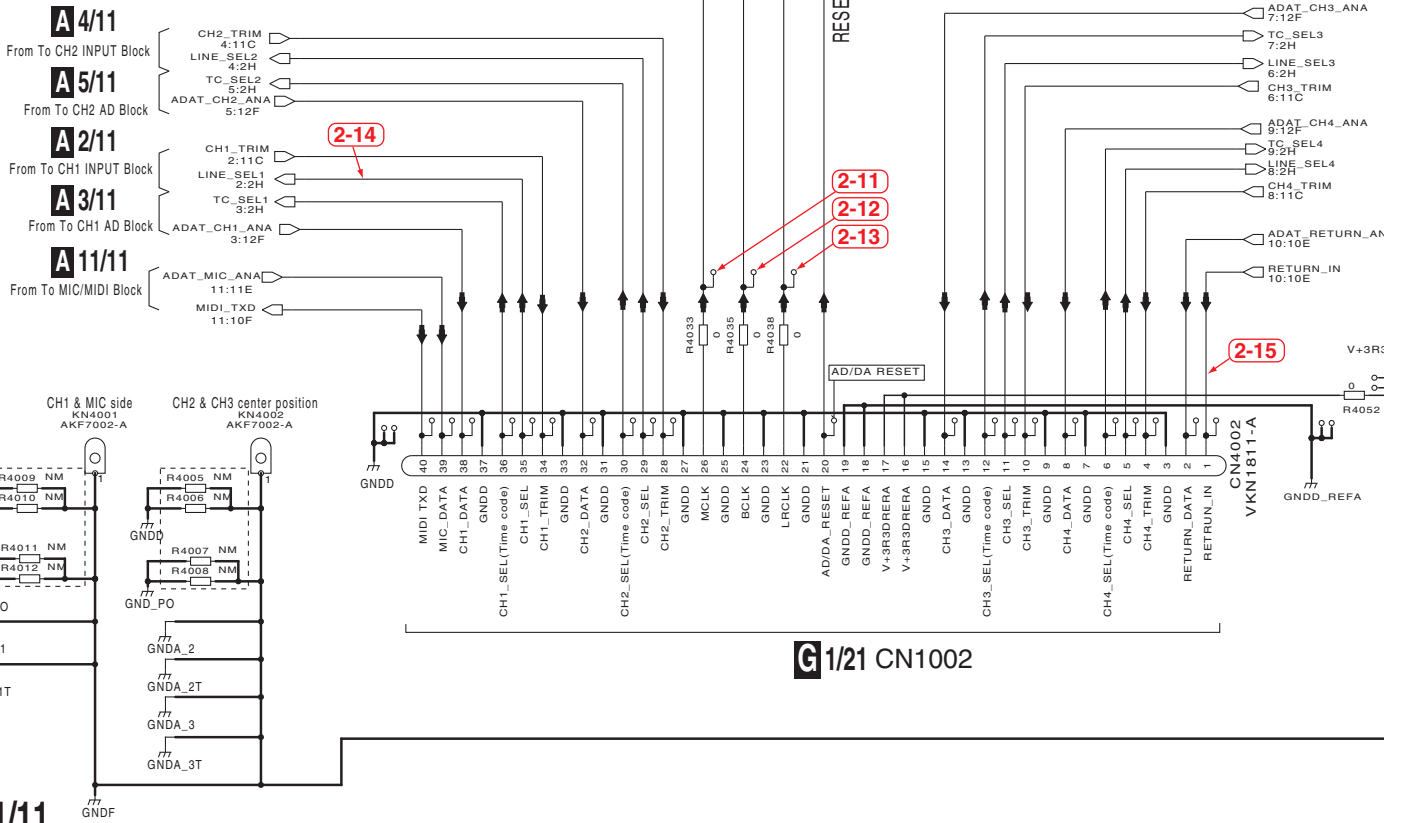
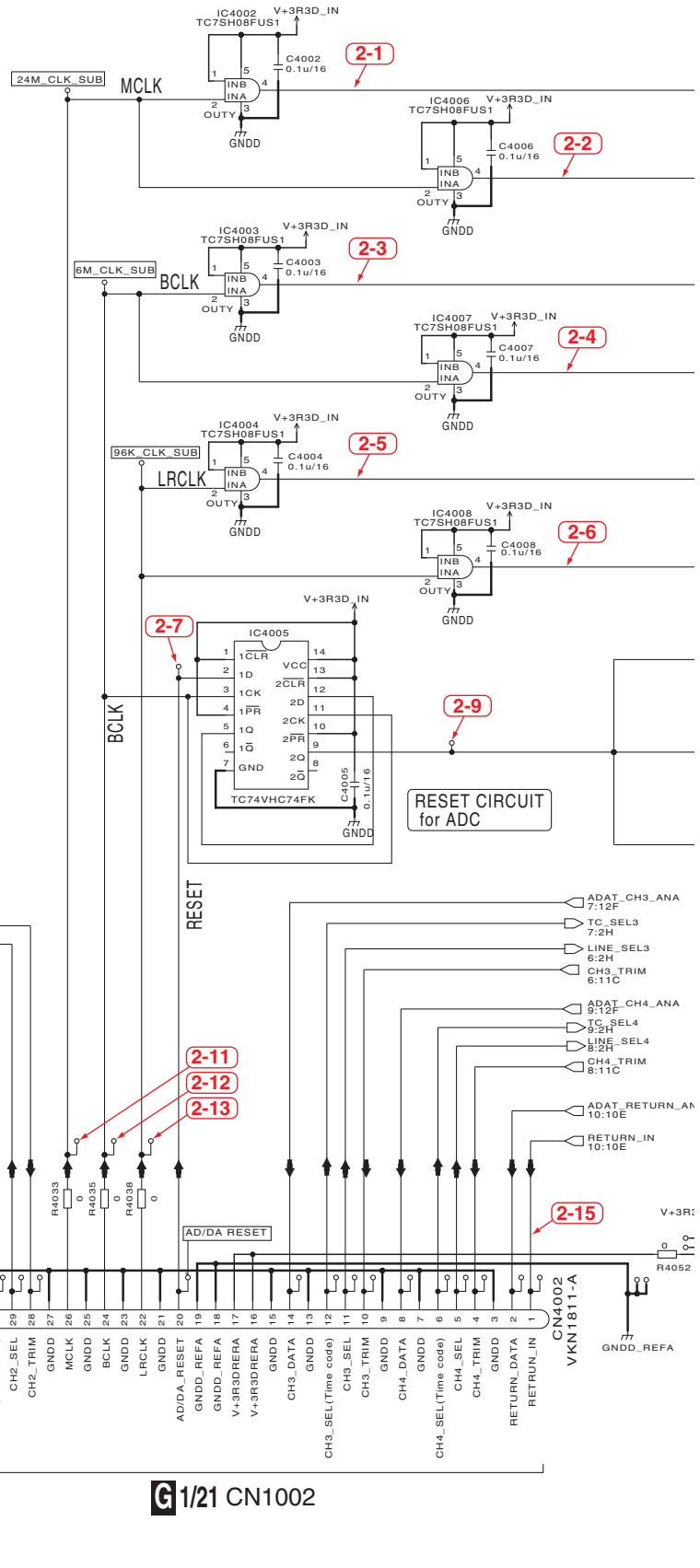
A1/11 INPUT ASSY (DWX3193)

BOARD IF

NOTES NM¹ is STBY

- RS1/10SR***J
- RS1/16SS***J
- RS1/4SA***J
- D □ RS1/10SE***D
- RN □ RN1/16SE***D
- || CKSRYB
- || CKSSYB
- || CKSYB
- HXS || CFHXSQ
- CH || CCSRCH
- || CCSSCH
- LA || CFTLA
- JO || CEJQ
- NP || CEANP
- || CEAT
- HAT || CEHAT
- ZL || CEHAZL

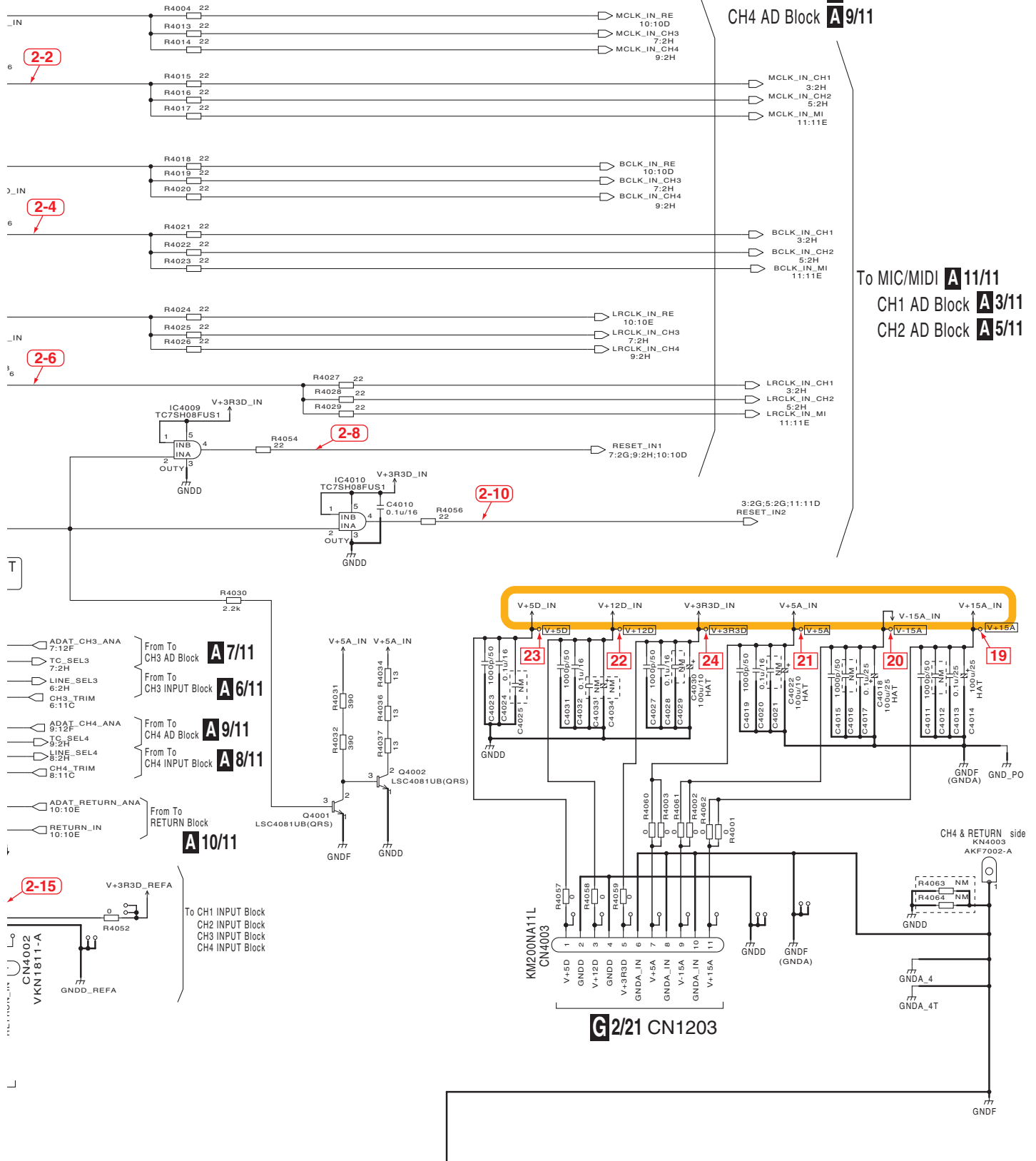
- : Voltage measuring point
- : Waveform measuring point



A1/11

To RETURN AD Block **A 10/11**
 CH3 AD Block **A 7/11**
 CH4 AD Block **A 9/11**

To MIC/MIDI **A 11/11**
 CH1 AD Block **A 3/11**
 CH2 AD Block **A 5/11**

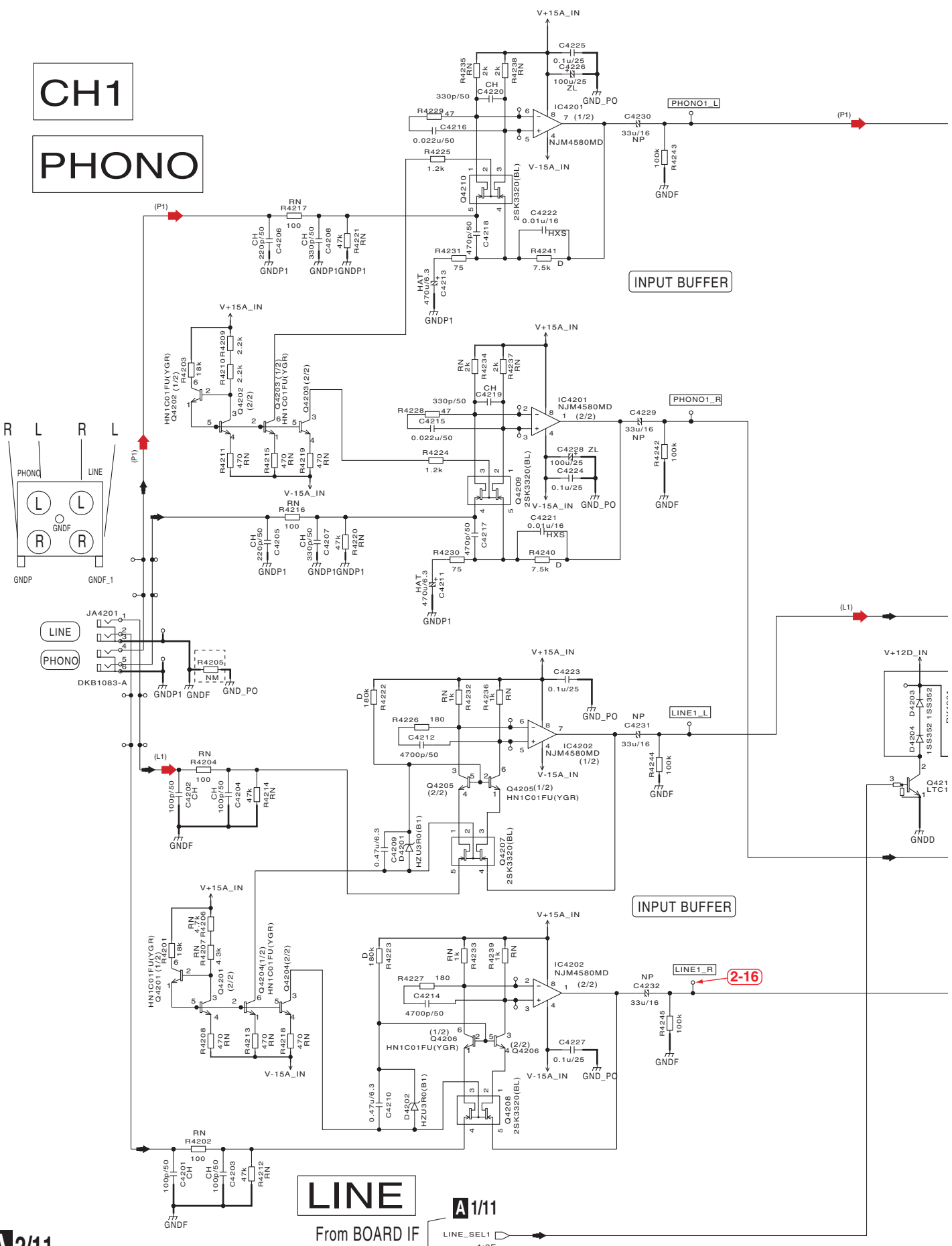


10.2 INPUT ASSY (2/11)

1 2 3 4

A
B
C
D
E
F

CH1
PHONO



LINE

From BOARD IF



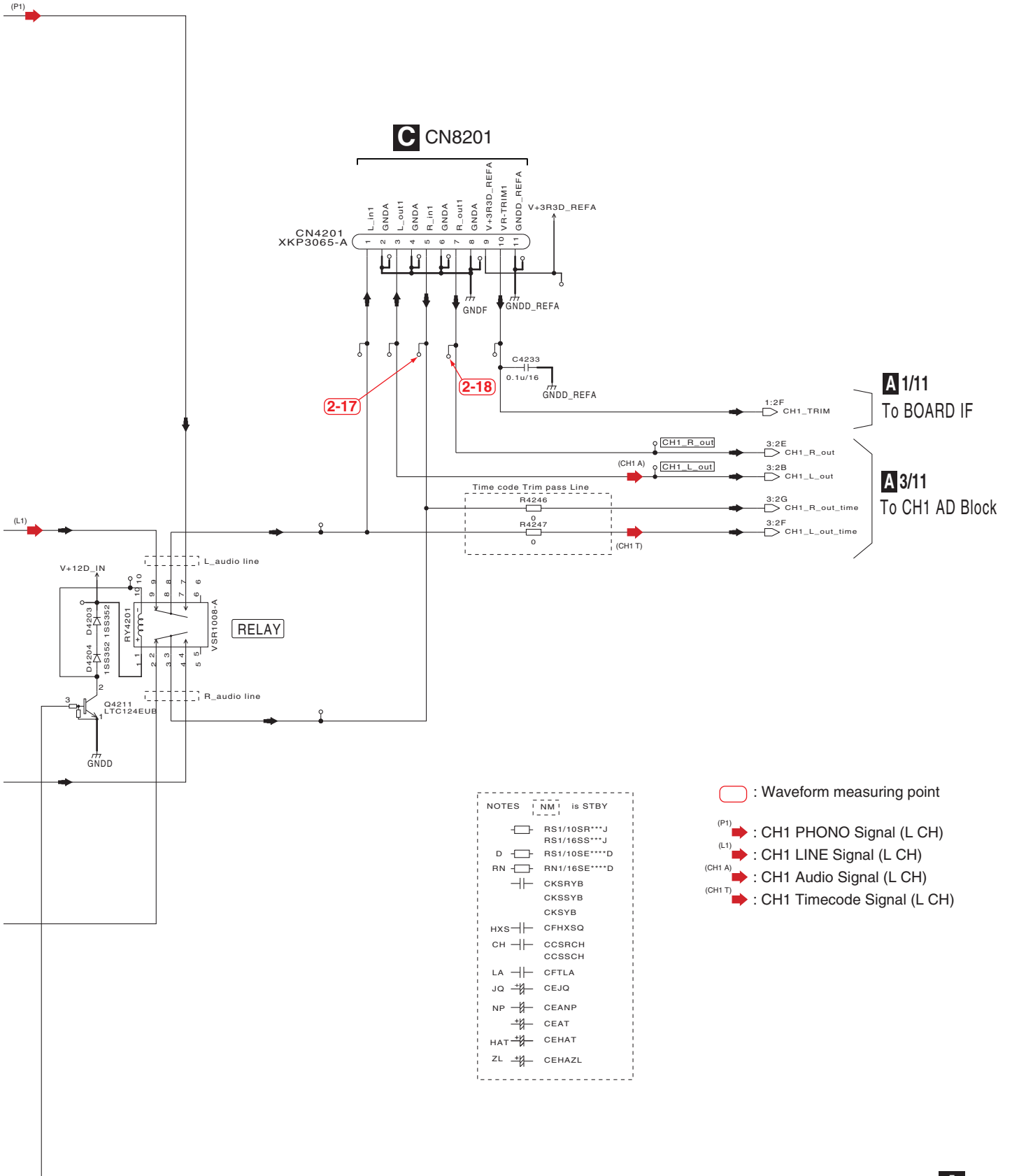
A2/11

100

DJM-900XS

1 2 3 4

A2/11 INPUT ASSY (DWX3193)



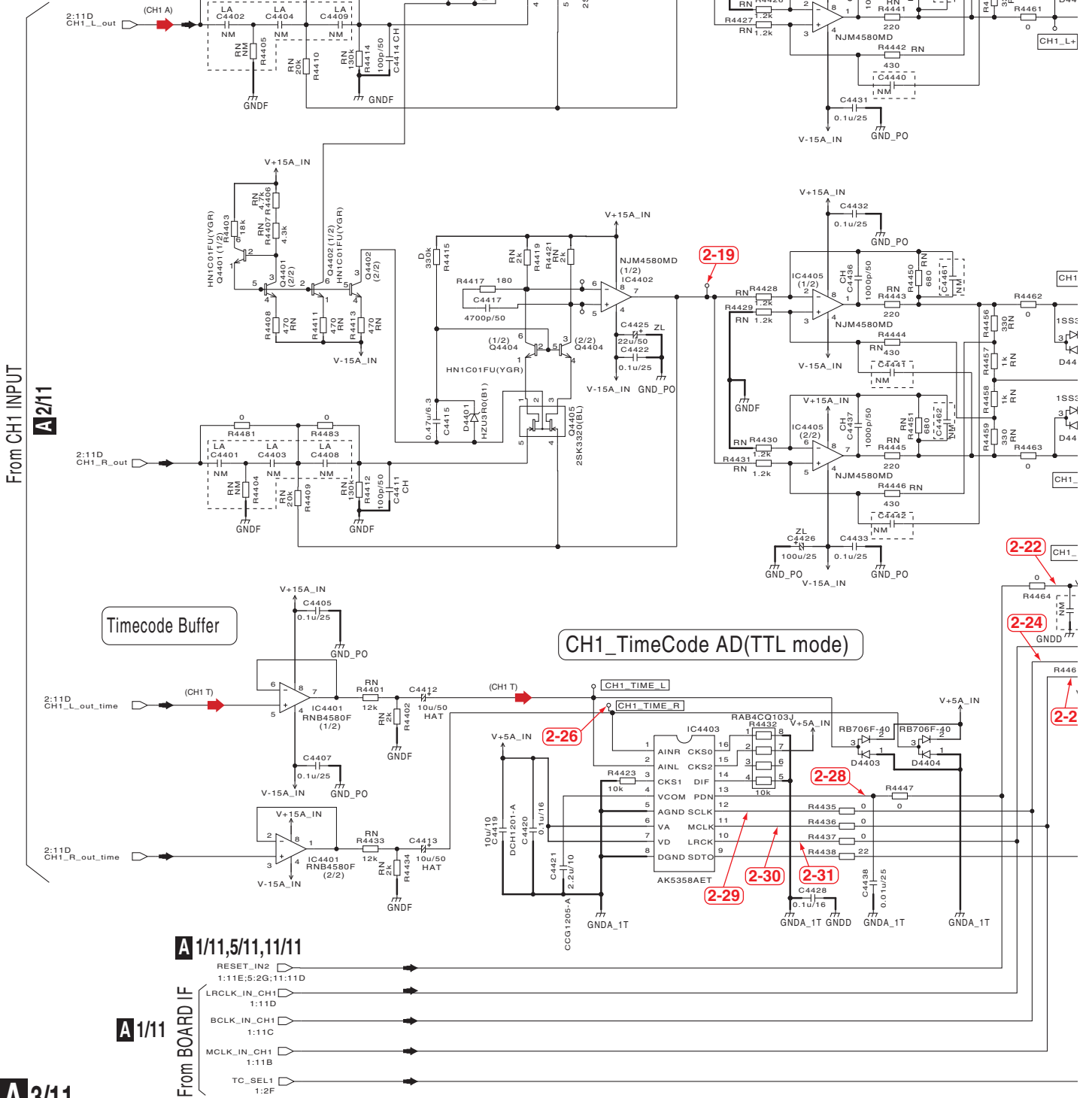
10.3 INPUT ASSY (3/11)

A
B
C
D
E
F

INPUT CH1 AD
PHONO / CD

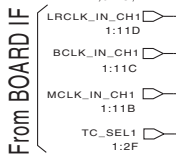
Intermediate Buffer

Balanced Drive



A1/11,5/11,11/11

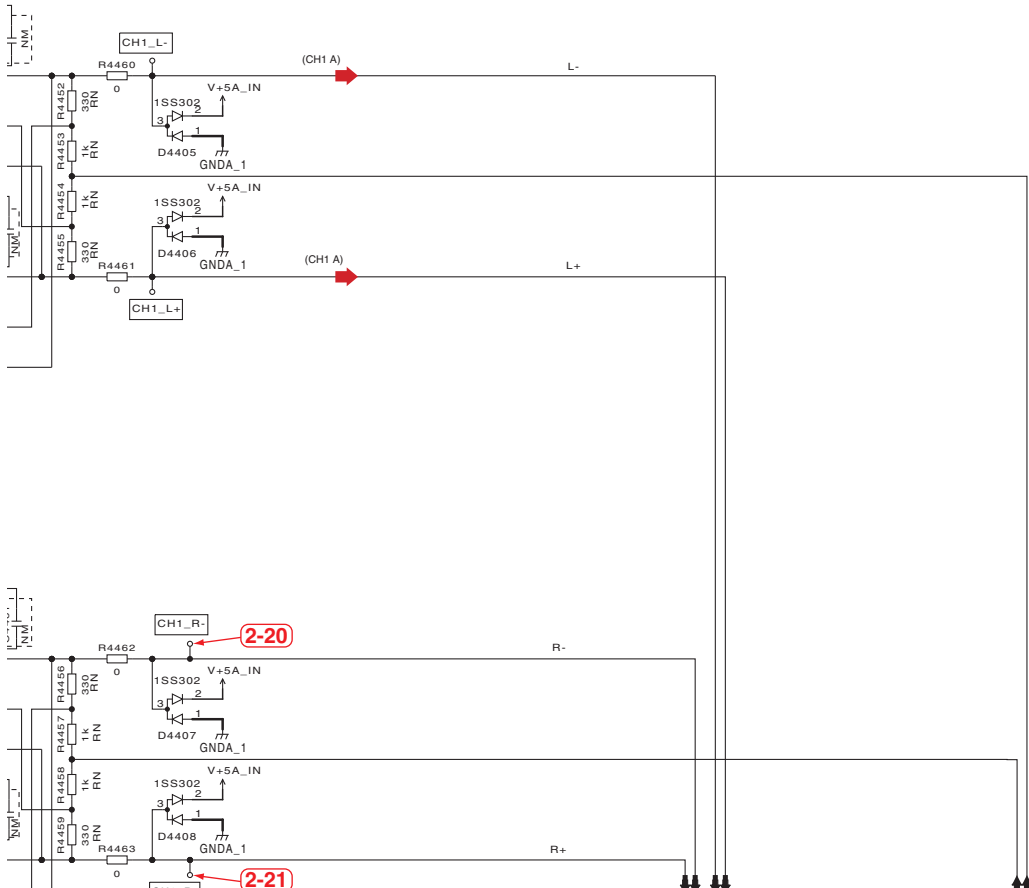
A1/11



A3/11

A3/11 INPUT ASSY (DWX3193)

Balanced Direct ADC Driver

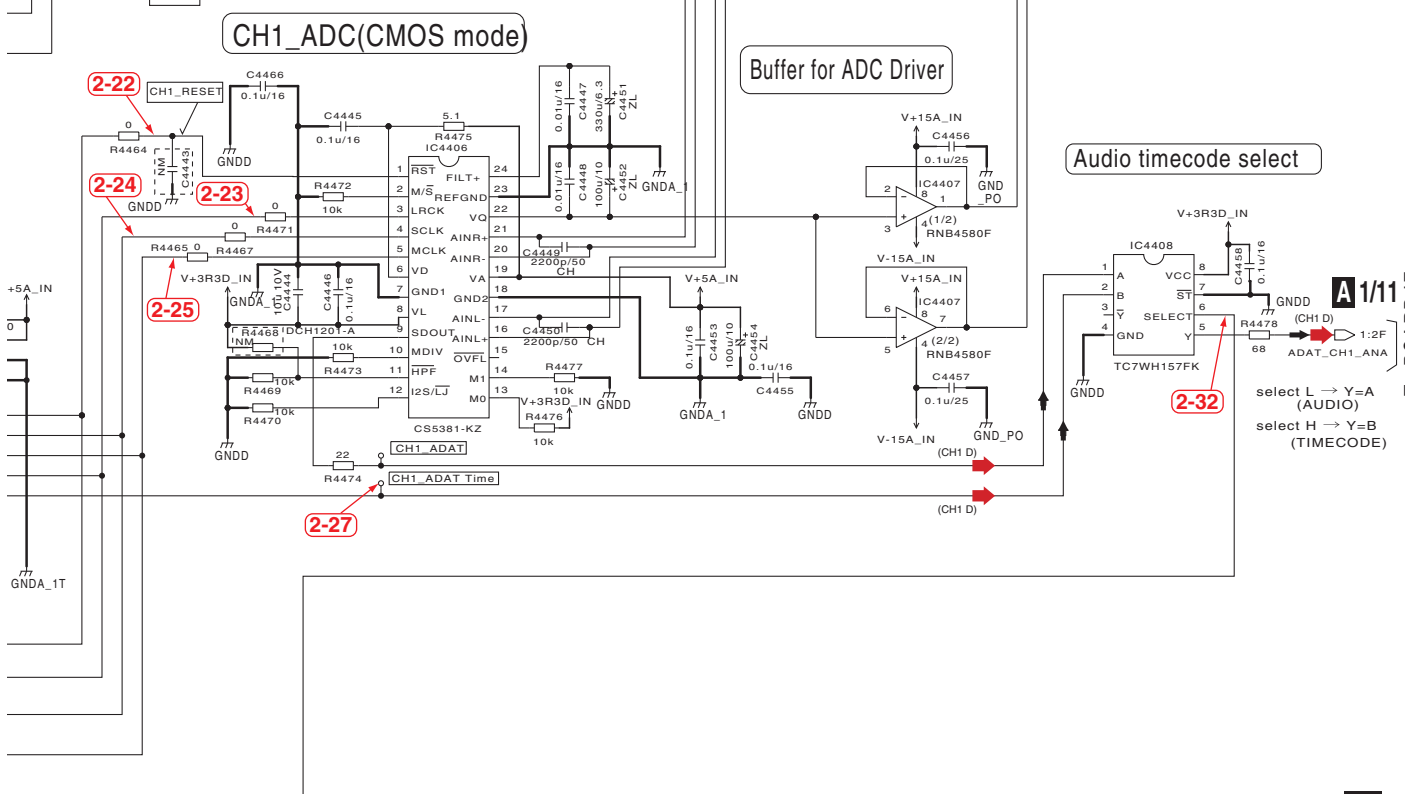


NOTES

| | |
|--|---------------|
| | RS1/10SR***J |
| | RS1/16SS***J |
| | RS1/10SE****D |
| | RN1/16SE****D |
| | CKSRYB |
| | CKSSYB |
| | CKSYB |
| | HXS |
| | CFHXSQ |
| | CH |
| | CCSRCH |
| | CCSSCH |
| | LA |
| | CFTLA |
| | JO |
| | CEJQ |
| | NP |
| | CEANP |
| | CEAT |
| | HAT |
| | CEHAT |
| | ZL |
| | CEHAZL |

: Waveform measuring point

- (CH1 A) : CH1 Audio Signal (L CH)
- (CH1 T) : CH1 Timecode Signal (L CH)
- (CH1 D) : CH1 DIGITAL Signal



A1/11

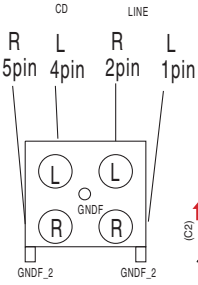
select L → Y=A (AUDIO)
 select H → Y=B (TIMECODE)

To BOARD IF

10.4 INPUT ASSY (4/11)

CH2

CD



LINE

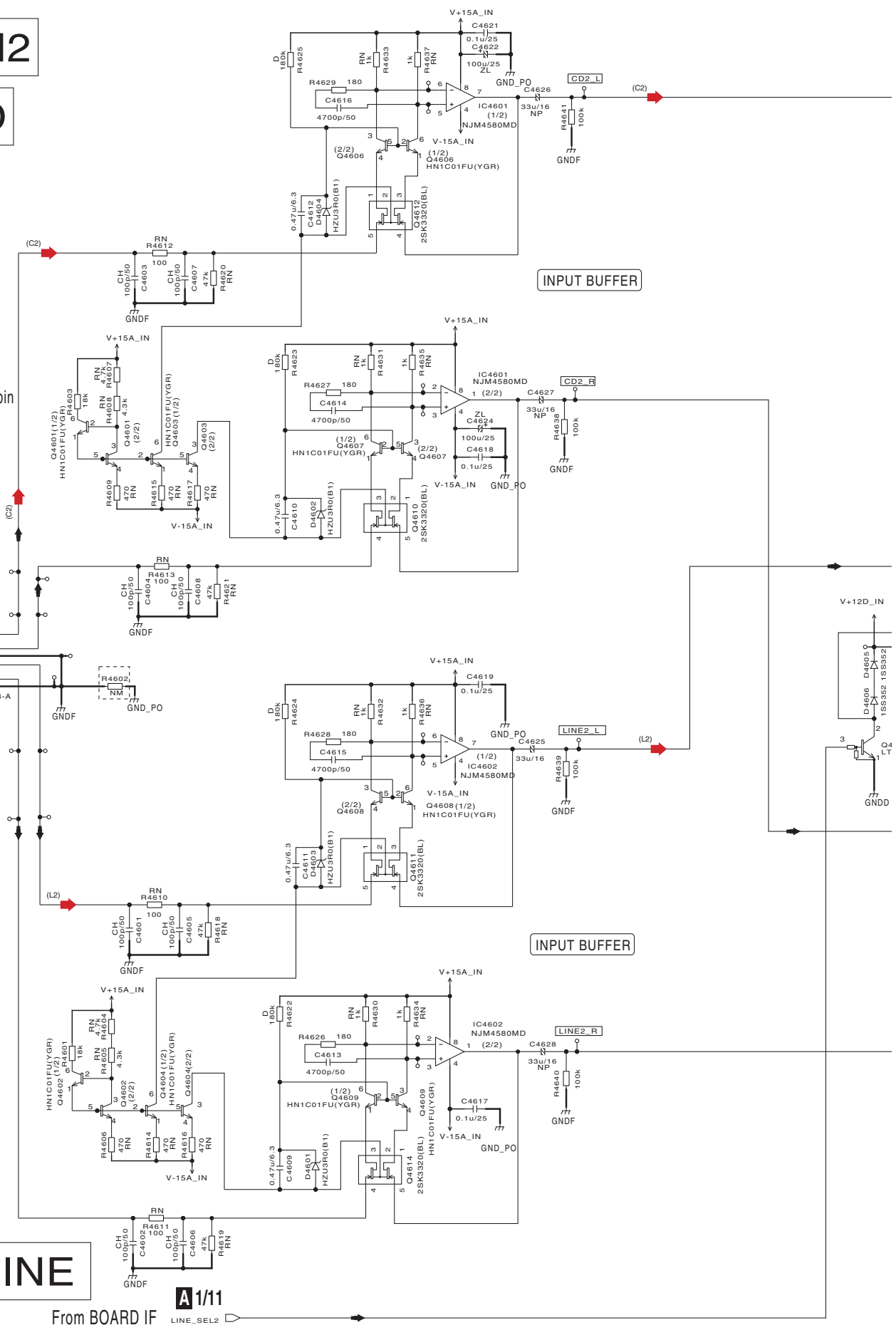
A4/11

From BOARD IF

A1/11

LINE_SEL2 1:2E

DJM-900XS



INPUT BUFFER

INPUT BUFFER

A4/11 INPUT ASSY (DWX3193)

A

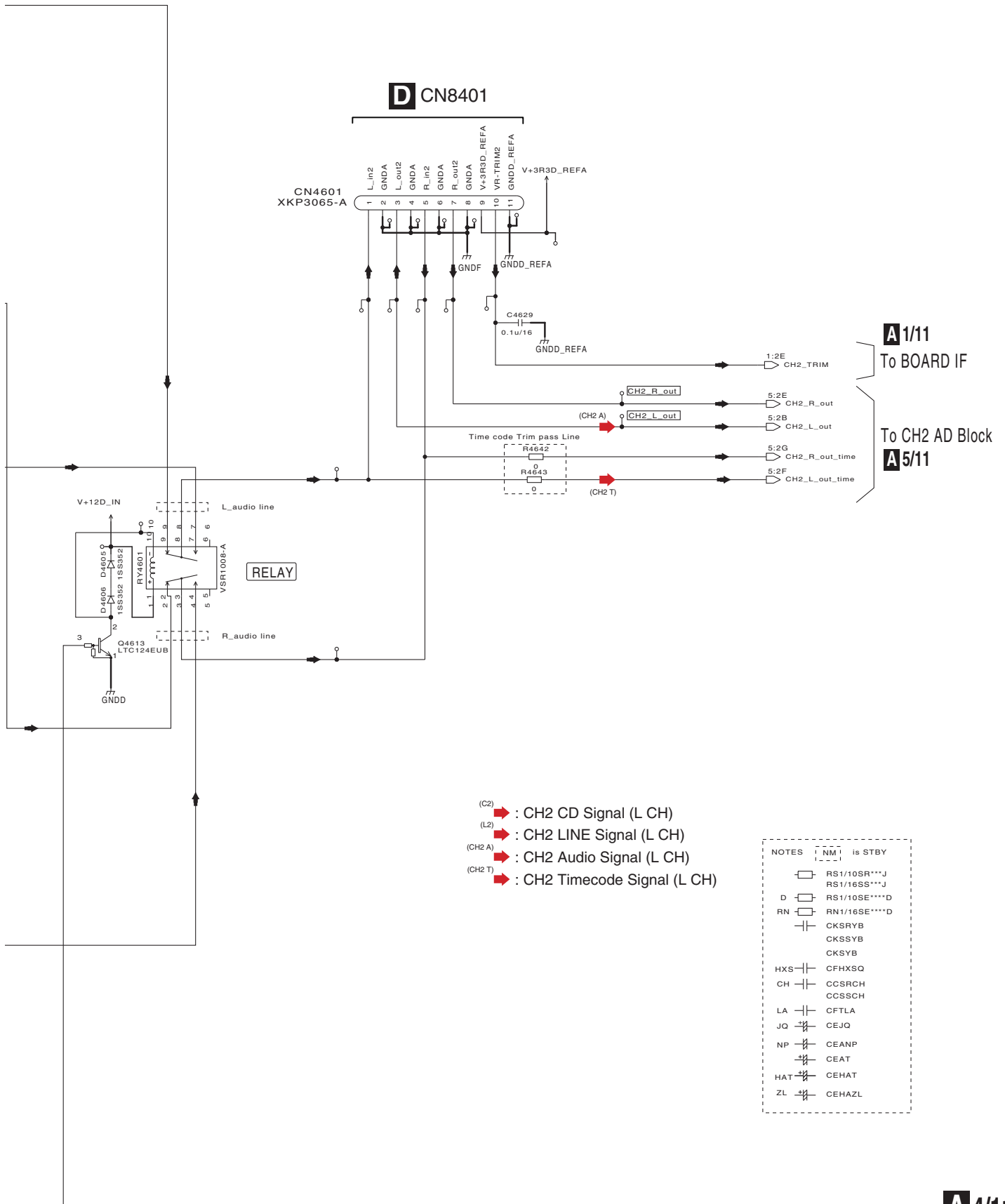
B

C

D

E

F

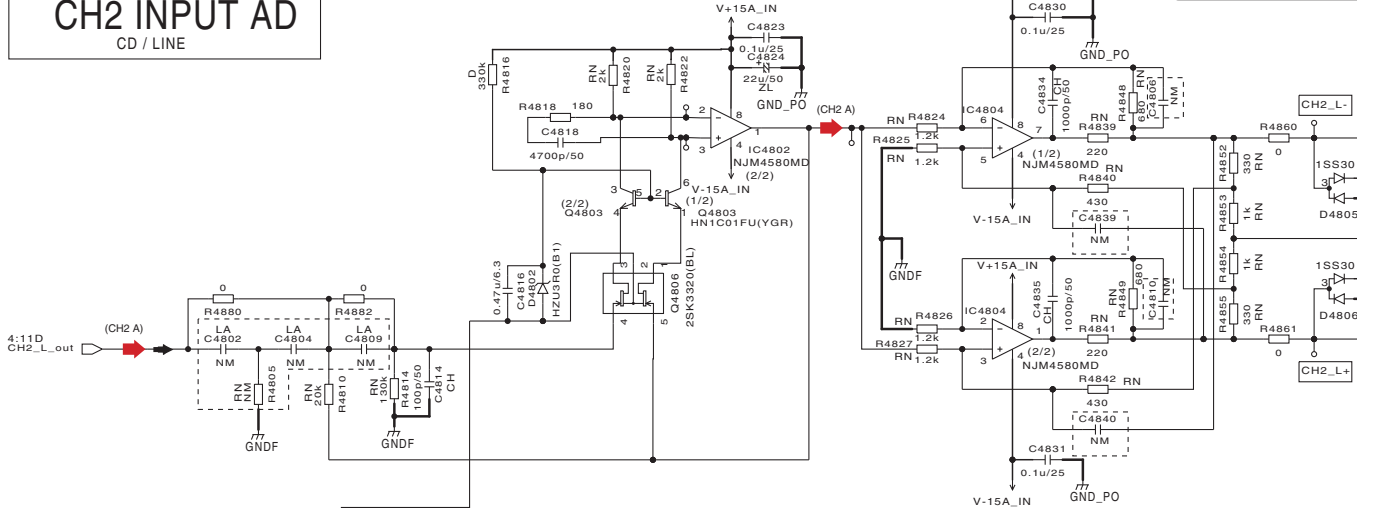


10.5 INPUT ASSY (5/11)

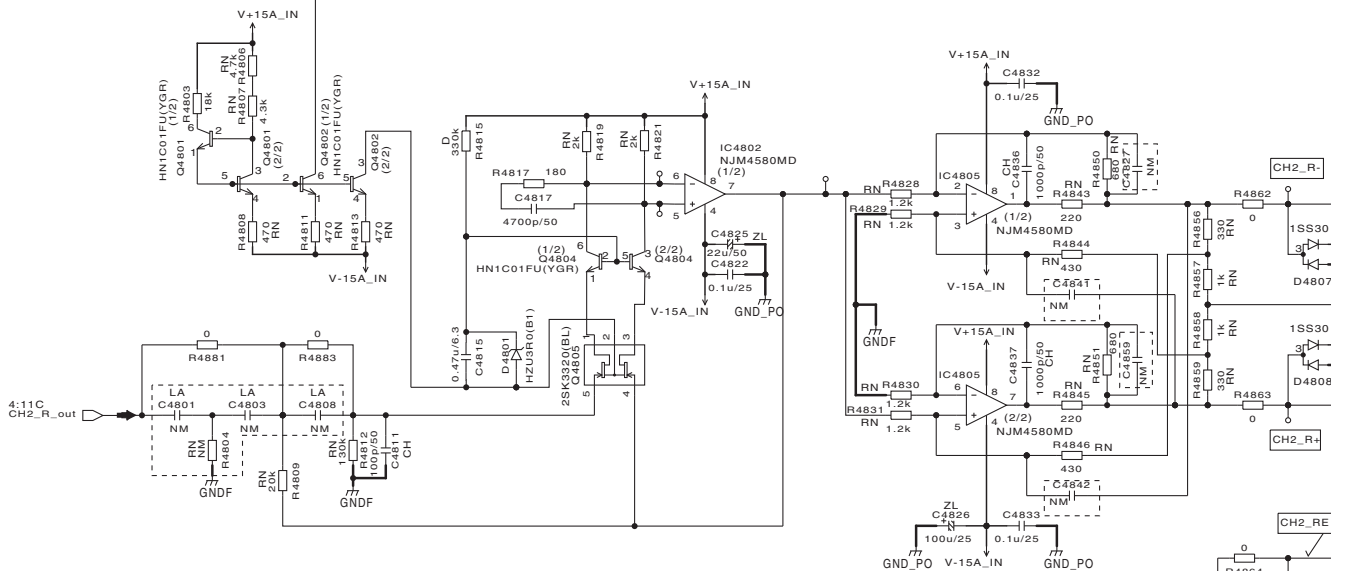
CH2 INPUT AD CD / LINE

Intermediate Buffer

Balanced Direct AD

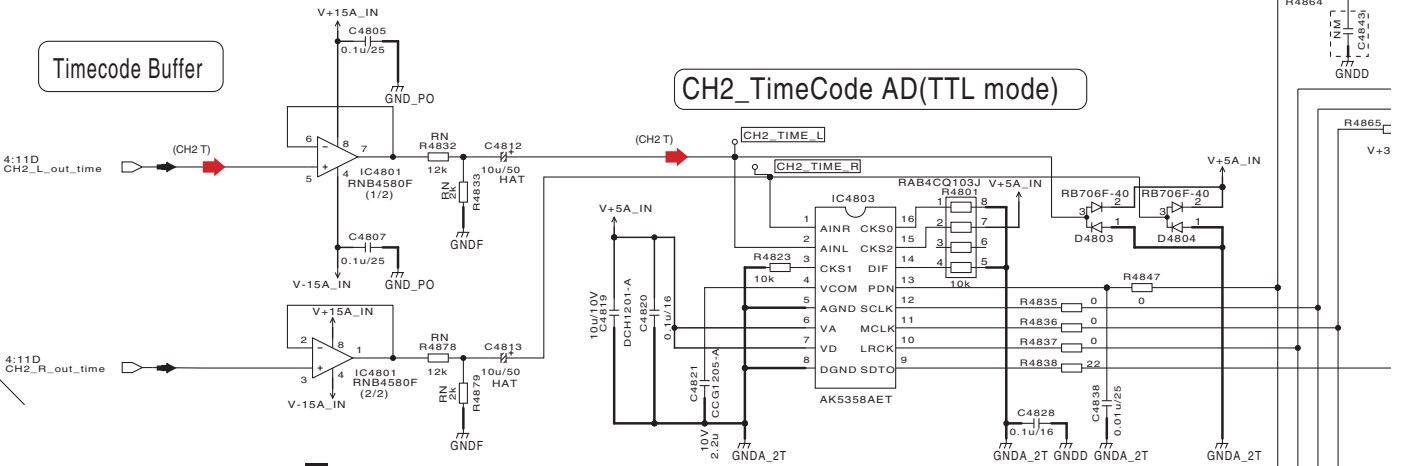


From CH2 INPUT
A 4/11



Timecode Buffer

CH2_TimeCode AD(TTL mode)



A 1/11,3/11,11/11

A 1/11

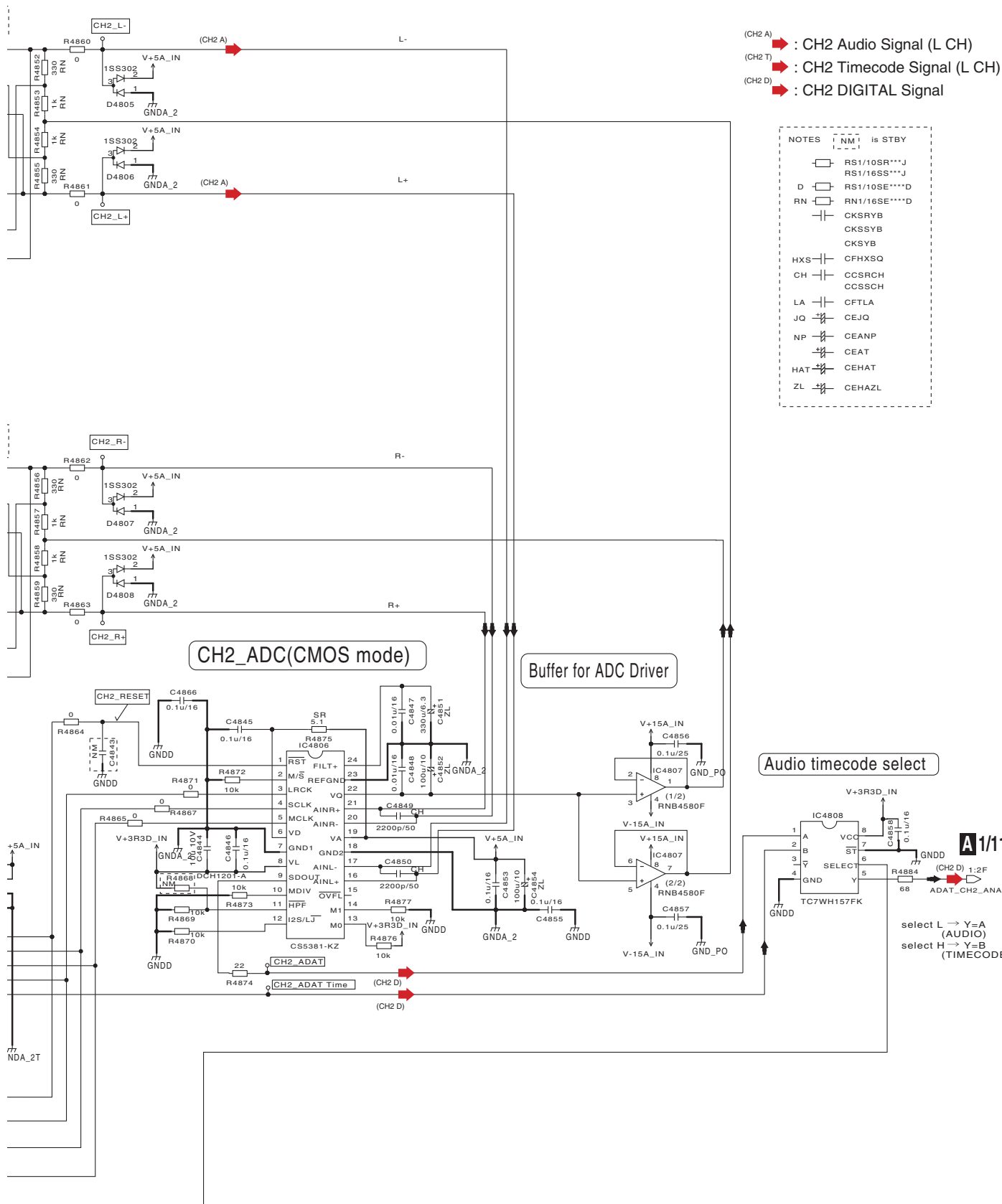
From BOARD IF

- RESET_IN2 1:11E:3:2G:11:11D
- LRCLK_IN_CH2 1:11D
- BCLK_IN_CH2 1:11C
- MCLK_IN_CH2 1:11B
- TC_SEL2 1:2F

A 5/11

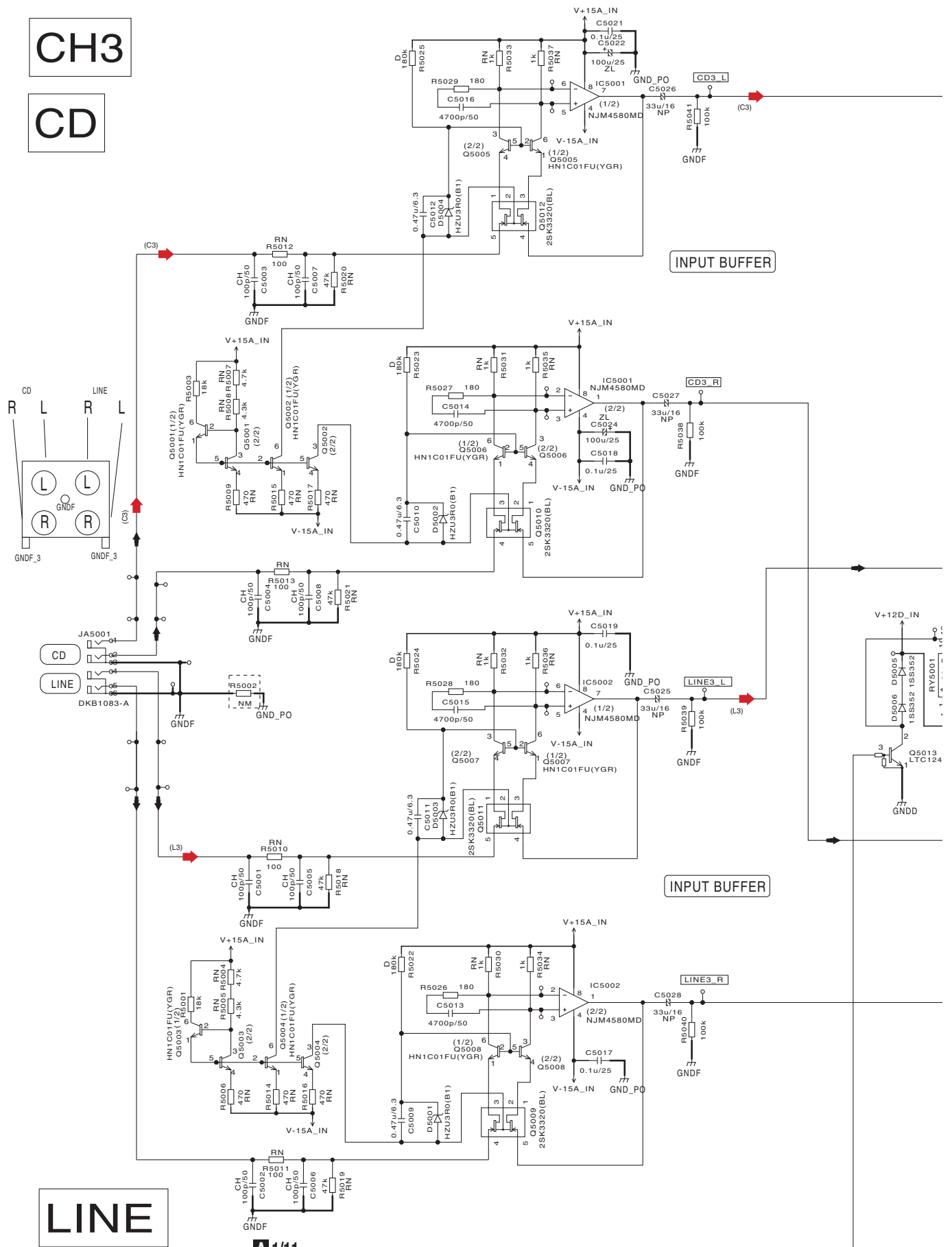
Balanced Direct ADC Driver

A5/11 INPUT ASSY (DWX3193)



10.6 INPUT ASSY (6/11)

CH3
CD



LINE

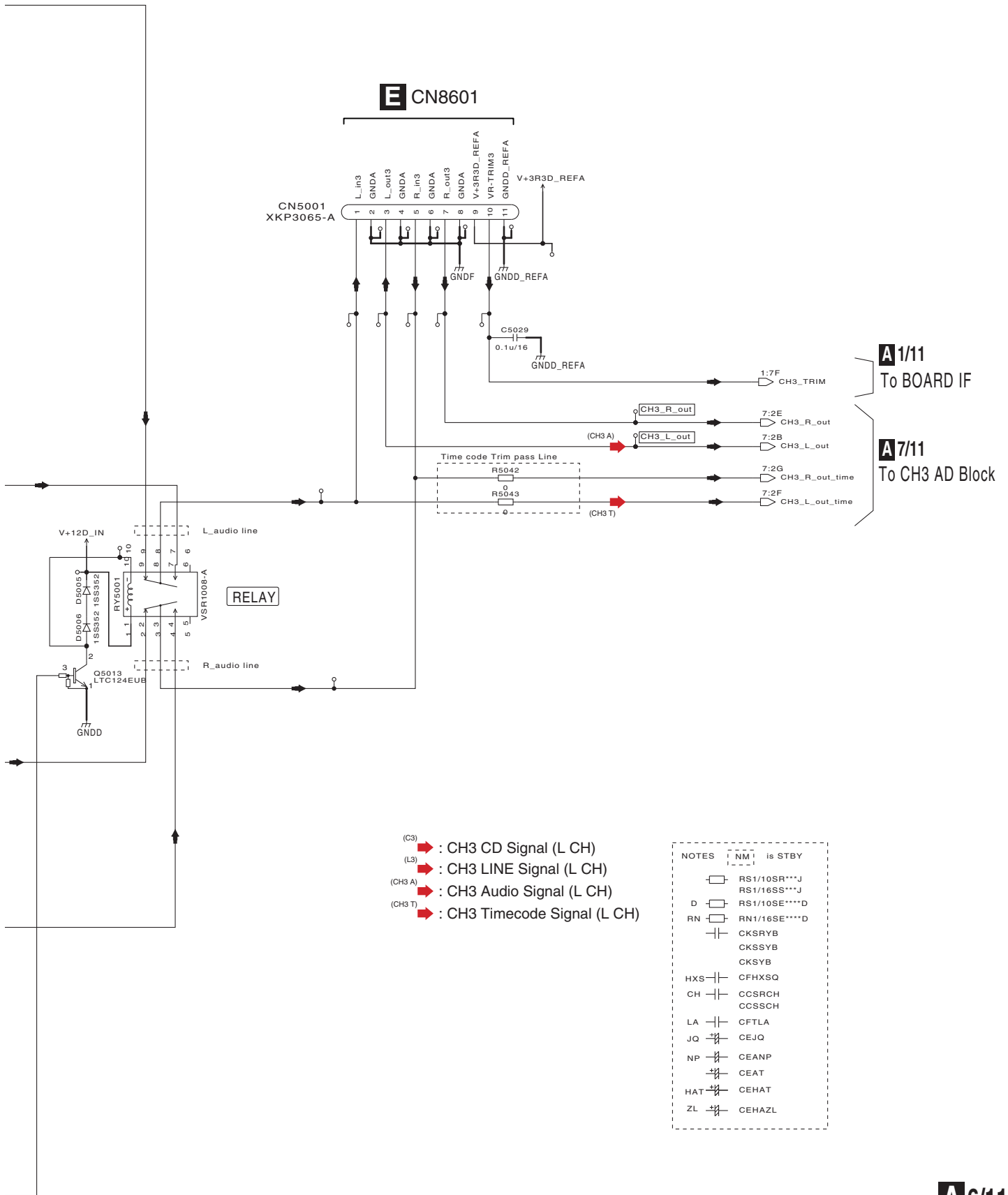
From BOARD IF A1/11 LINE_SEL3 1:7E

A6/11
108

DJM-900XS

A6/11 INPUT ASSY (DWX3193)

A
B
C
D
E
F



- (C3) : CH3 CD Signal (L CH)
- (L3) : CH3 LINE Signal (L CH)
- (CH3 A) : CH3 Audio Signal (L CH)
- (CH3 T) : CH3 Timecode Signal (L CH)

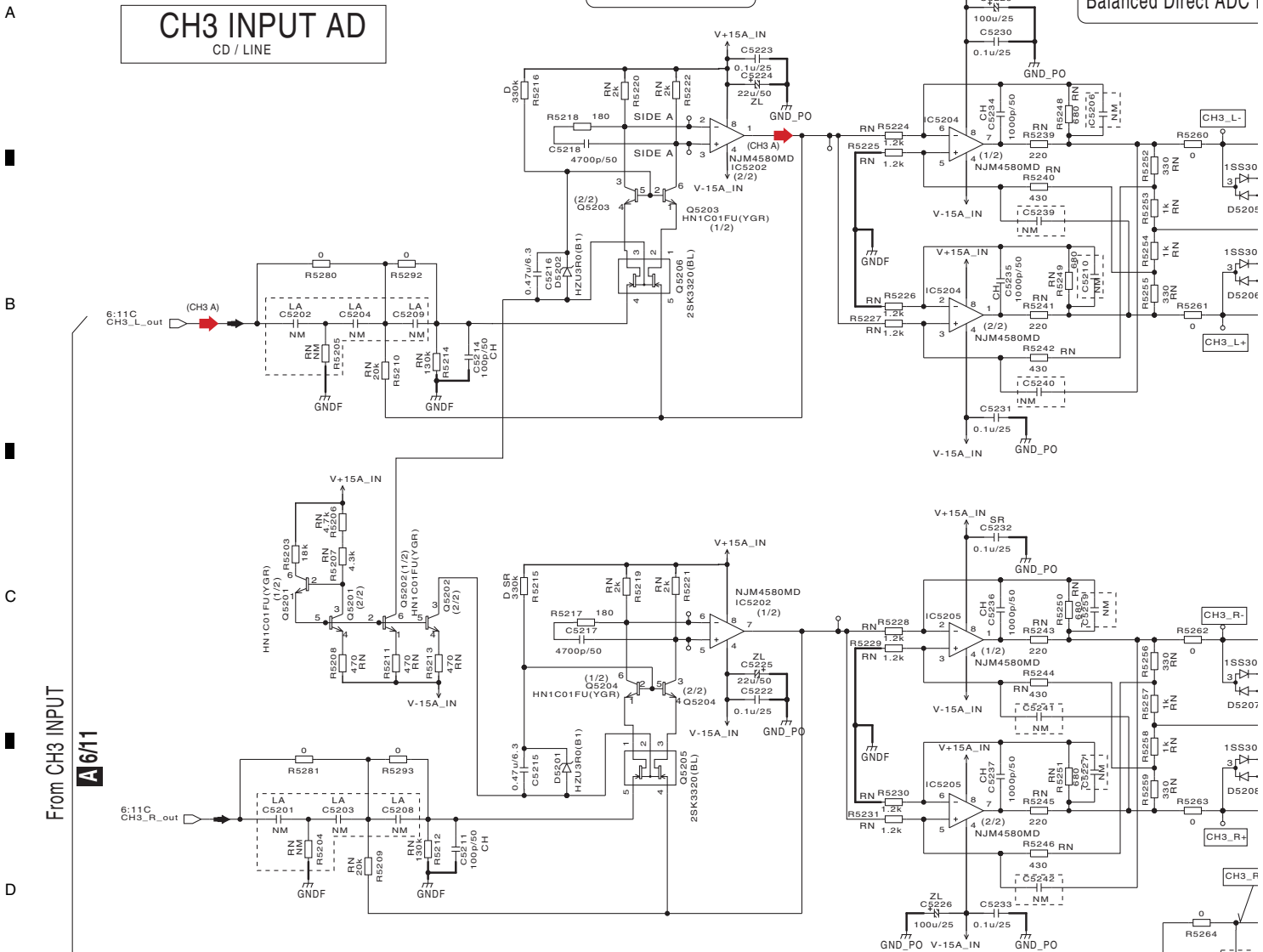
| NOTES | Symbol | Description |
|-------|--------|------------------------------|
| | | RS1/10SR***J RS1/16SS***J |
| D | | RS1/10SE****D |
| RN | | RN1/16SE****D |
| | | CKSRYB CKSSYB CKSYB |
| HXS | | CFHXSQ |
| CH | | CCSRCH CCSSCH |
| LA | | CFTLA |
| JQ | | CEJQ |
| NP | | CEANP |
| | | CEAT |
| HAT | | CEHAT |
| ZL | | CEHAZL |

10.7 INPUT ASSY (7/11)

CH3 INPUT AD CD / LINE

Intermediate Buffer

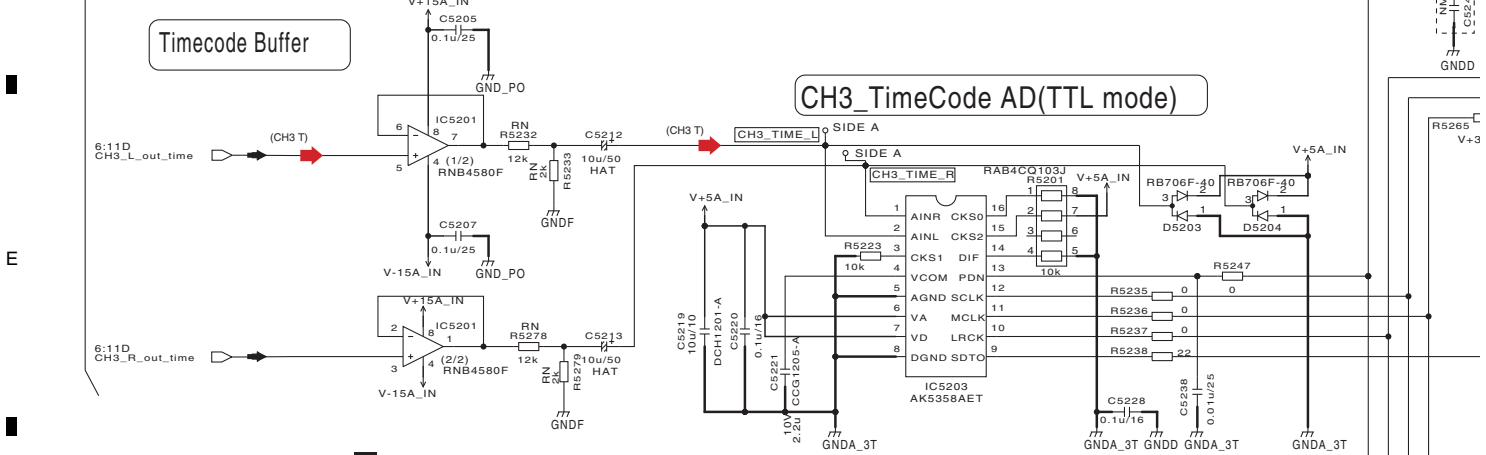
Balanced Direct ADC I



From CH3 INPUT
A 6/11

Timecode Buffer

CH3_TimeCode AD(TTL mode)



A 1/11,9/11,11/11

A 1/11

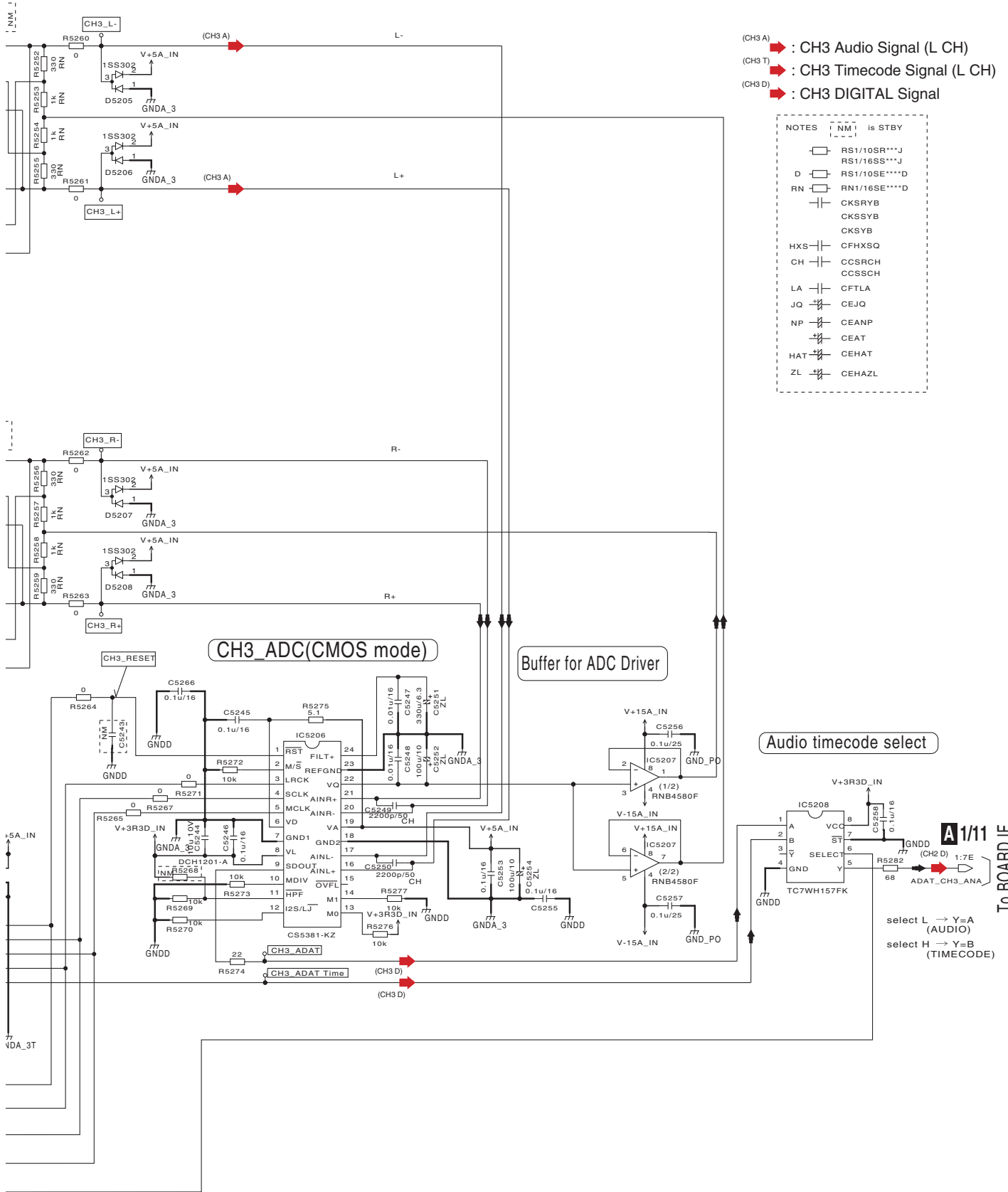
From BOARD IF

- RESET_IN1 1:10D;9:2H;10:10D
- LRCLK_IN_CH3 1:10D
- BCLK_IN_CH3 1:10C
- MCLK_IN_CH3 1:10B
- TC_SEL3 1:7E

A 7/11

anced Direct ADC Driver

A7/11 INPUT ASSY (DWX3193)



10.8 INPUT ASSY (8/11)

1

2

3

4

A

CH4
PHONO

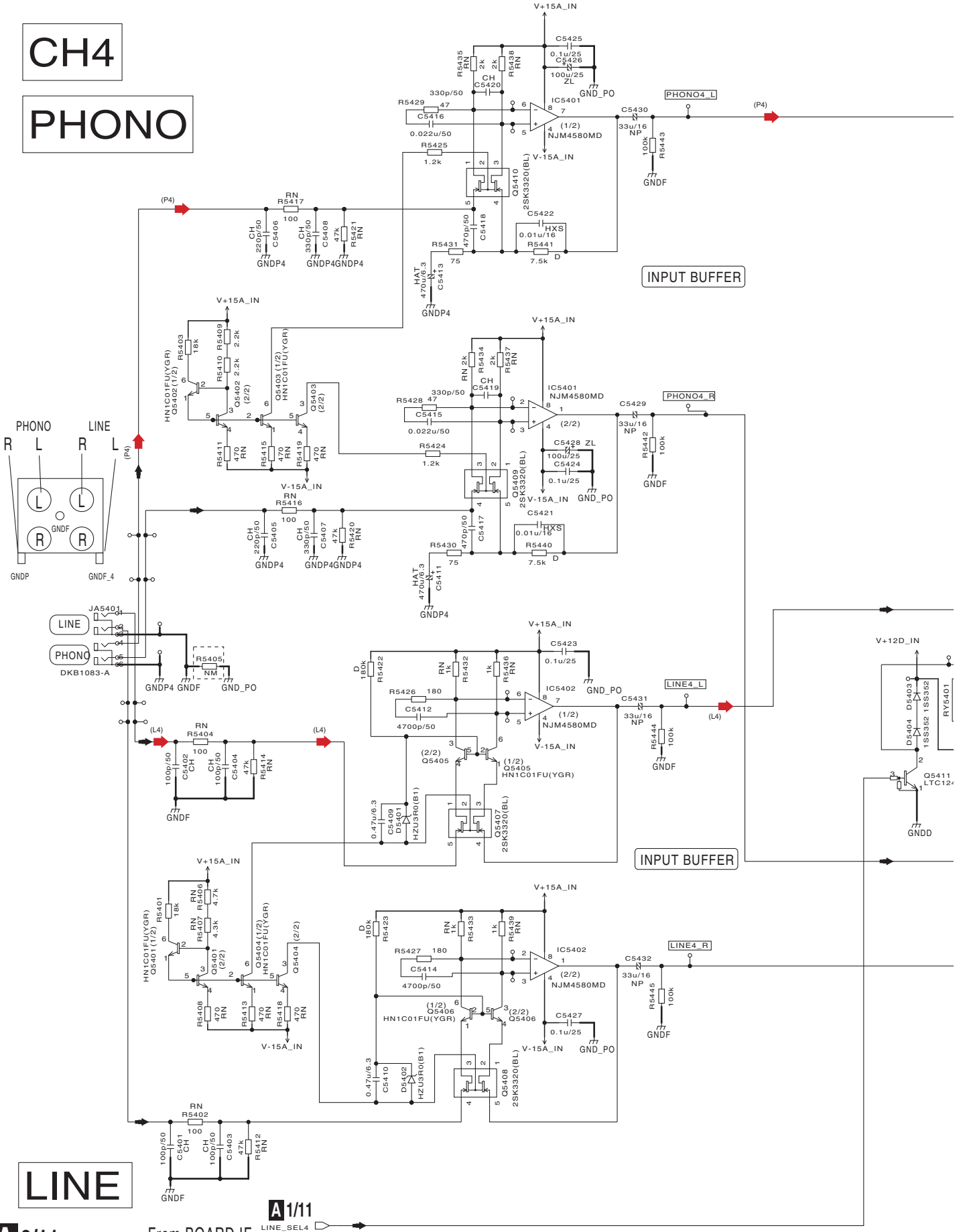
B

C

D

E

F



LINE

A1/11
From BOARD IF
LINE_SEL4 1:7F

A8/11

1

2

3

4

A 8/11 INPUT ASSY (DWX3193)

A

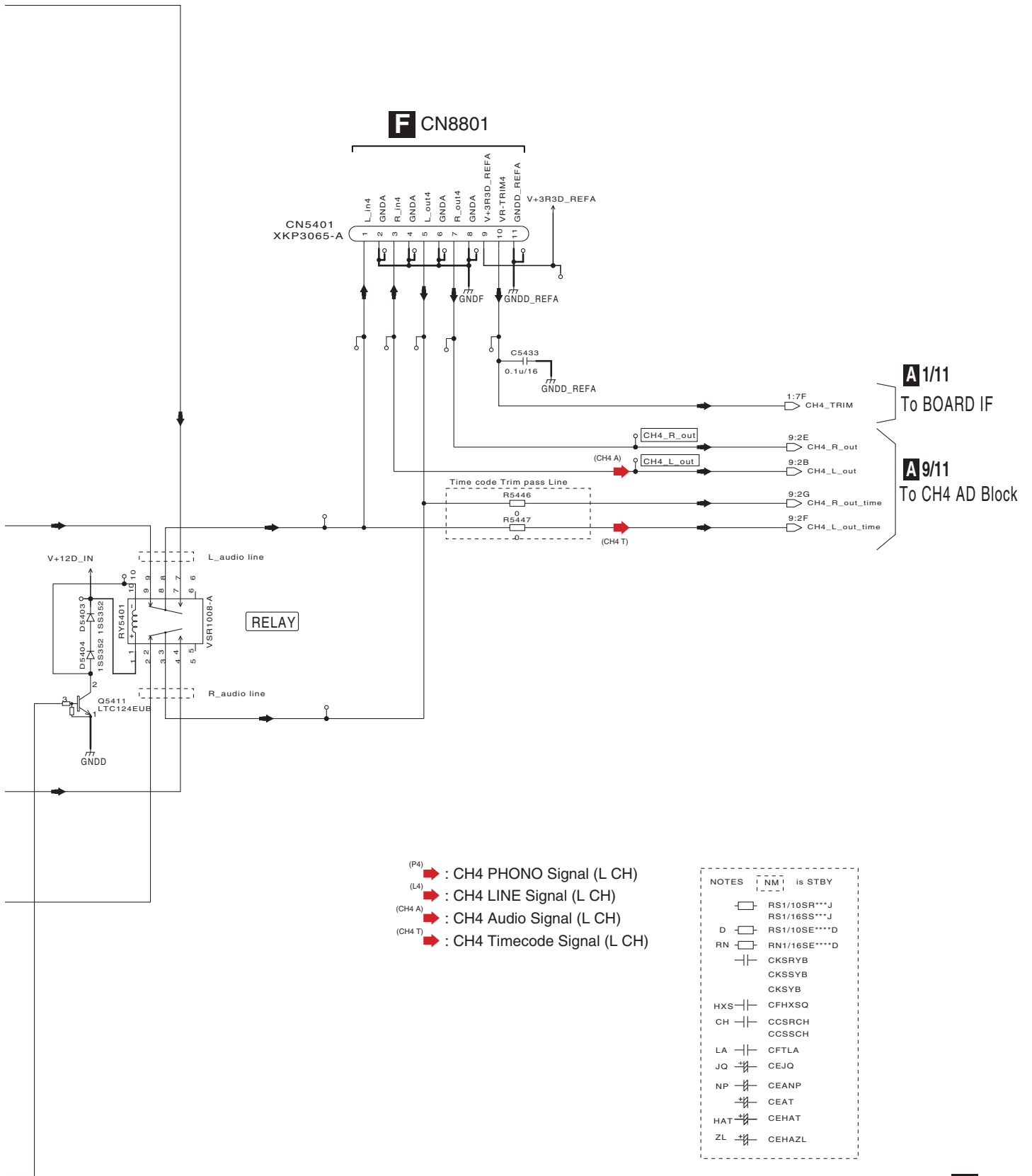
B

C

D

E

F



A 1/11 To BOARD IF

A 9/11 To CH4 AD Block

10.9 INPUT ASSY (9/11)

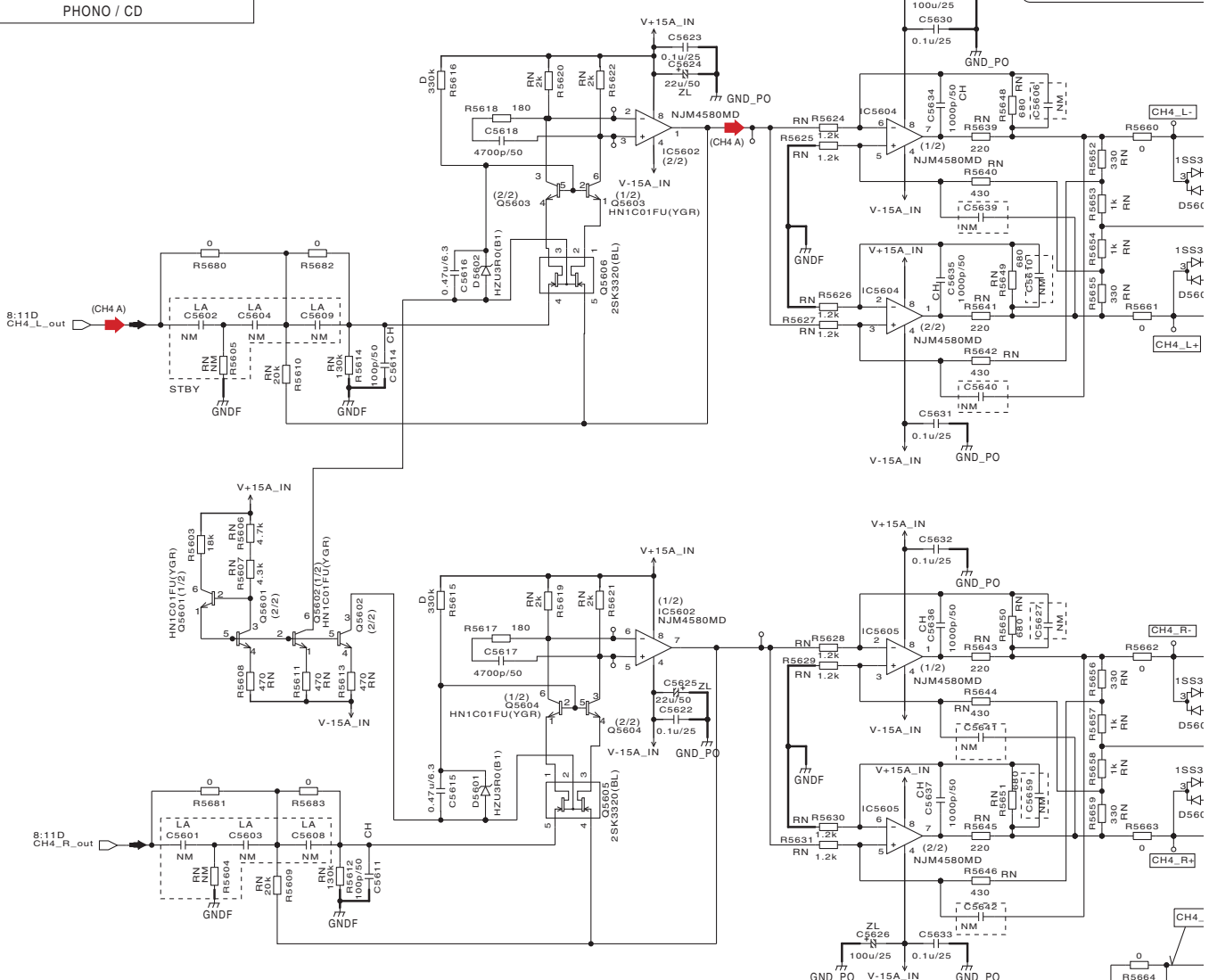
INPUT CH4 AD PHONO / CD

Intermediate Buffer

Balanced Direct ADC

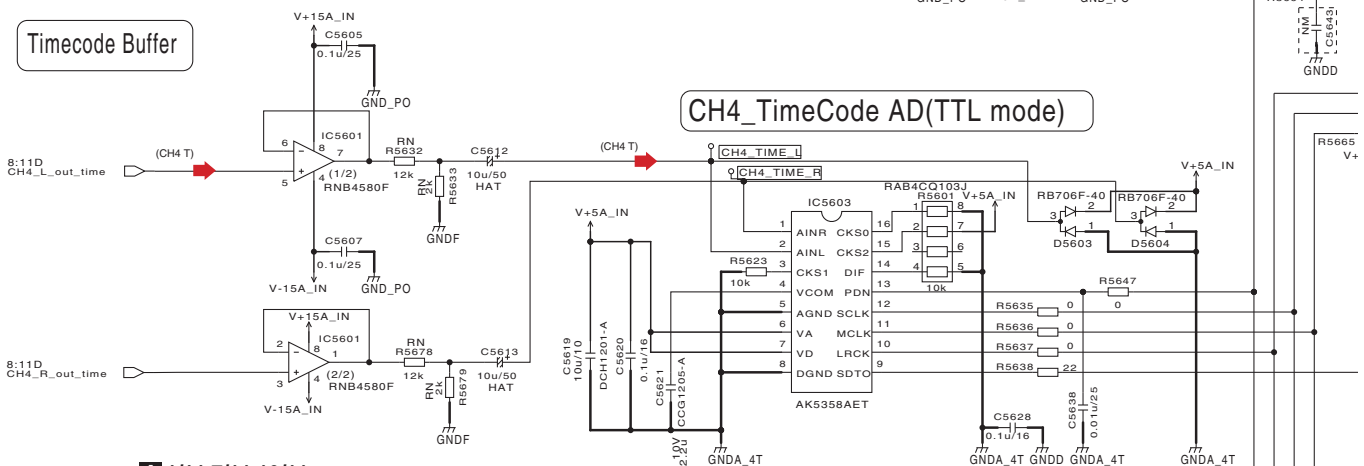
From CH4 INPUT

A/8/11



Timecode Buffer

CH4_TimeCode AD(TTL mode)



A/11/7/11,10/11

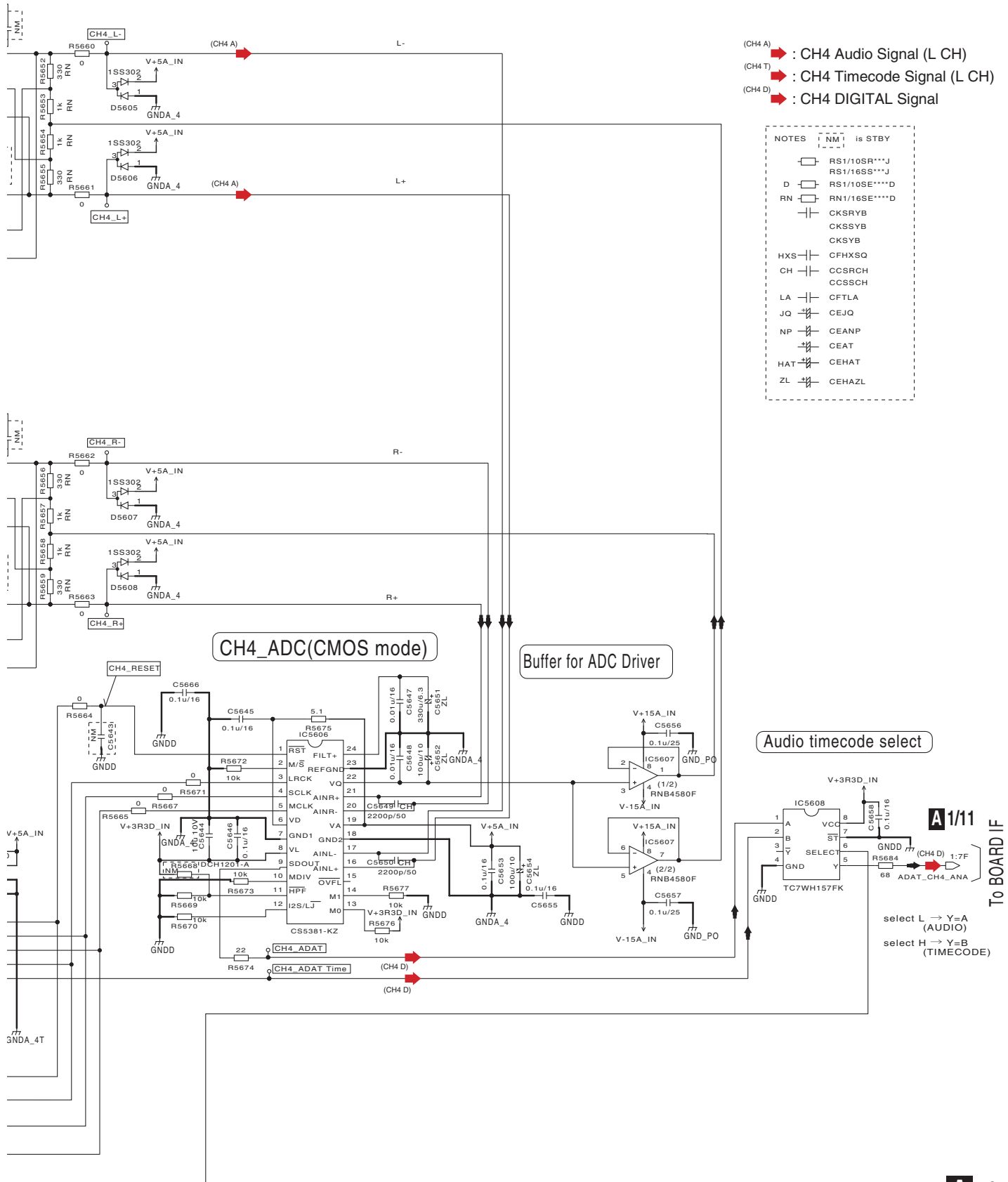
A/1/11



A/9/11

balanced Direct ADC Driver

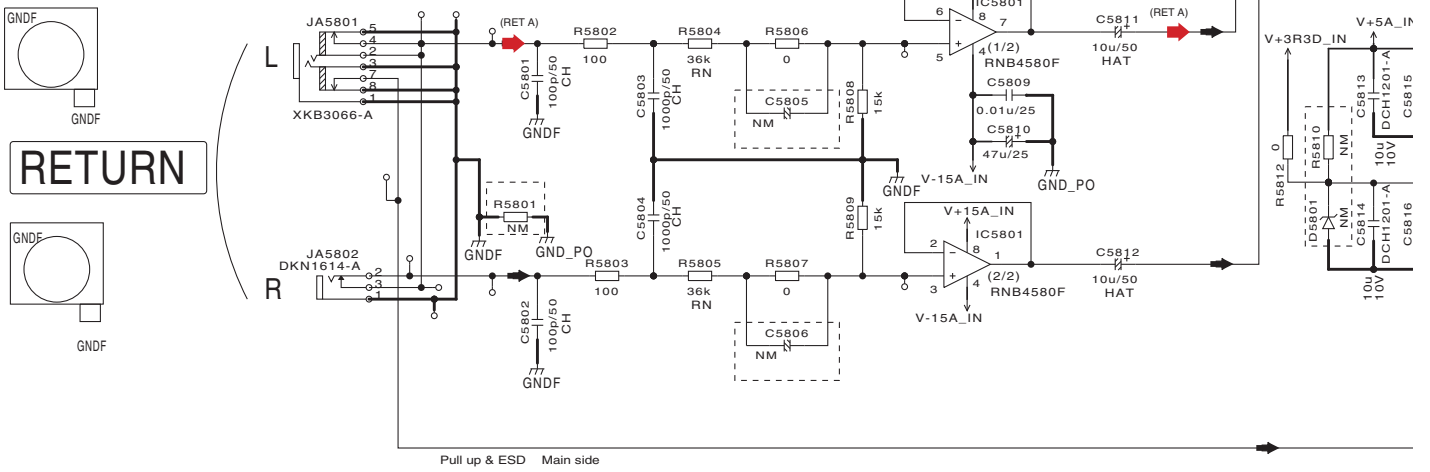
A9/11 INPUT ASSY (DWX3193)



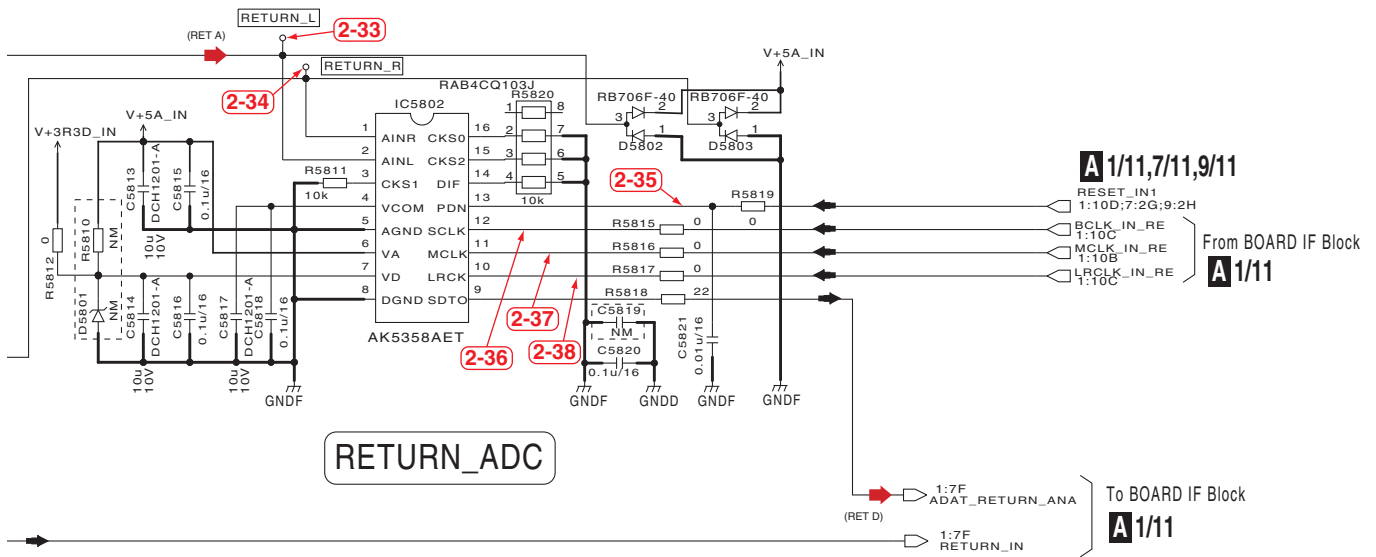
10.10 INPUT ASSY (10/11)

RETURN

INPUT Buffer



A10/11 INPUT ASSY (DWX3193)



○ : Waveform measuring point
 (RET A) ➔ : RETURN Audio Signal (L CH)
 (RET D) ➔ : RETURN DIGITAL Signal

NOTES

| | |
|-----|---------------|
| □ | RS1/10SR***J |
| □ | RS1/16SS***J |
| D | RS1/10SE****D |
| RN | RN1/16SE****D |
| | CKSRYB |
| | CKSSYB |
| | CKSYB |
| HXS | CFHXSQ |
| CH | CCSRCH |
| | CCSSCH |
| LA | CFTLA |
| JQ | CEJQ |
| NP | CEANP |
| | CEAT |
| HAT | CEHAT |
| ZL | CEHAZL |

10.11 INPUT ASSY (11/11)

MIC/MIDI

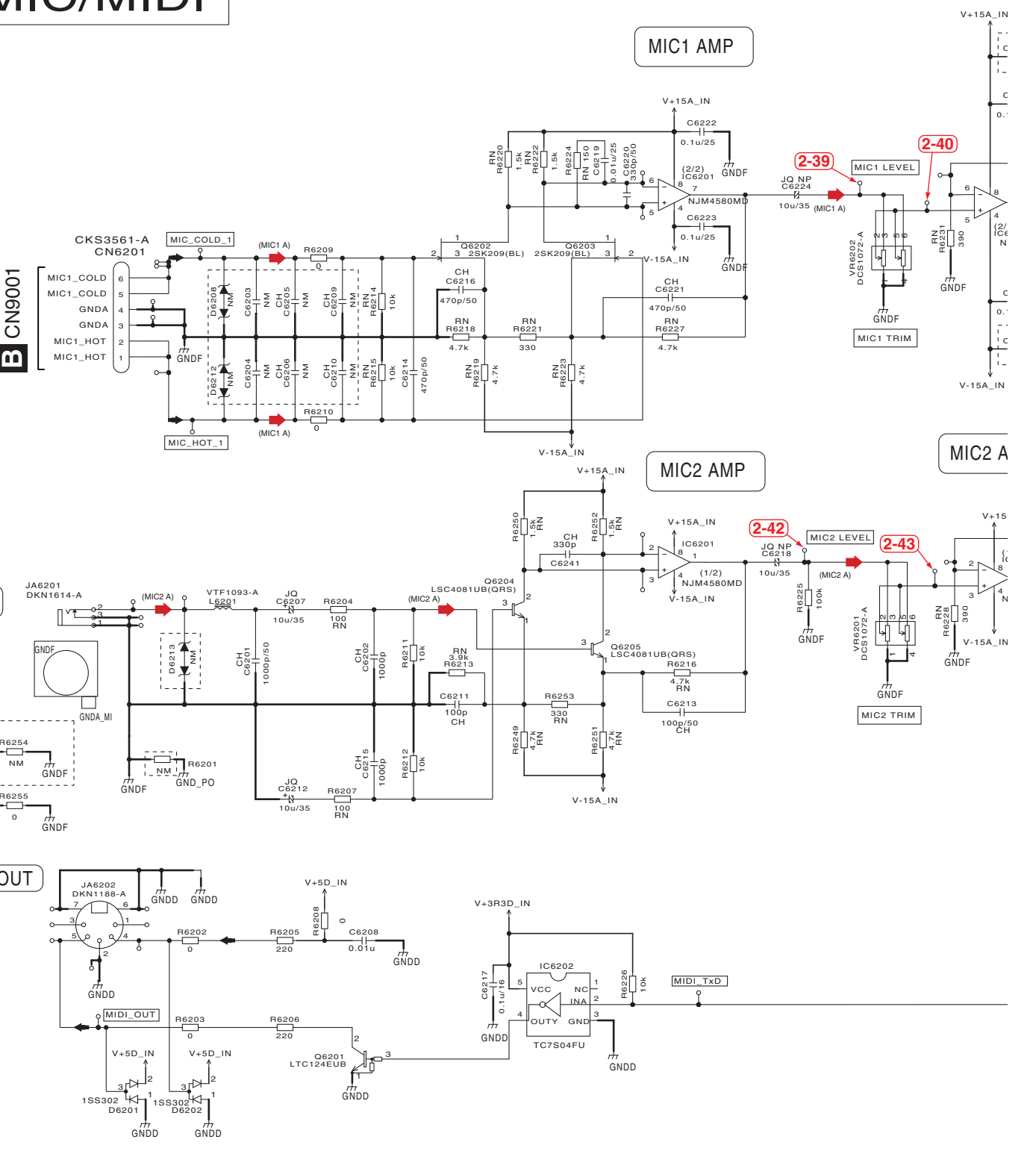
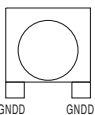
MIC1 AMP

MIC2 A

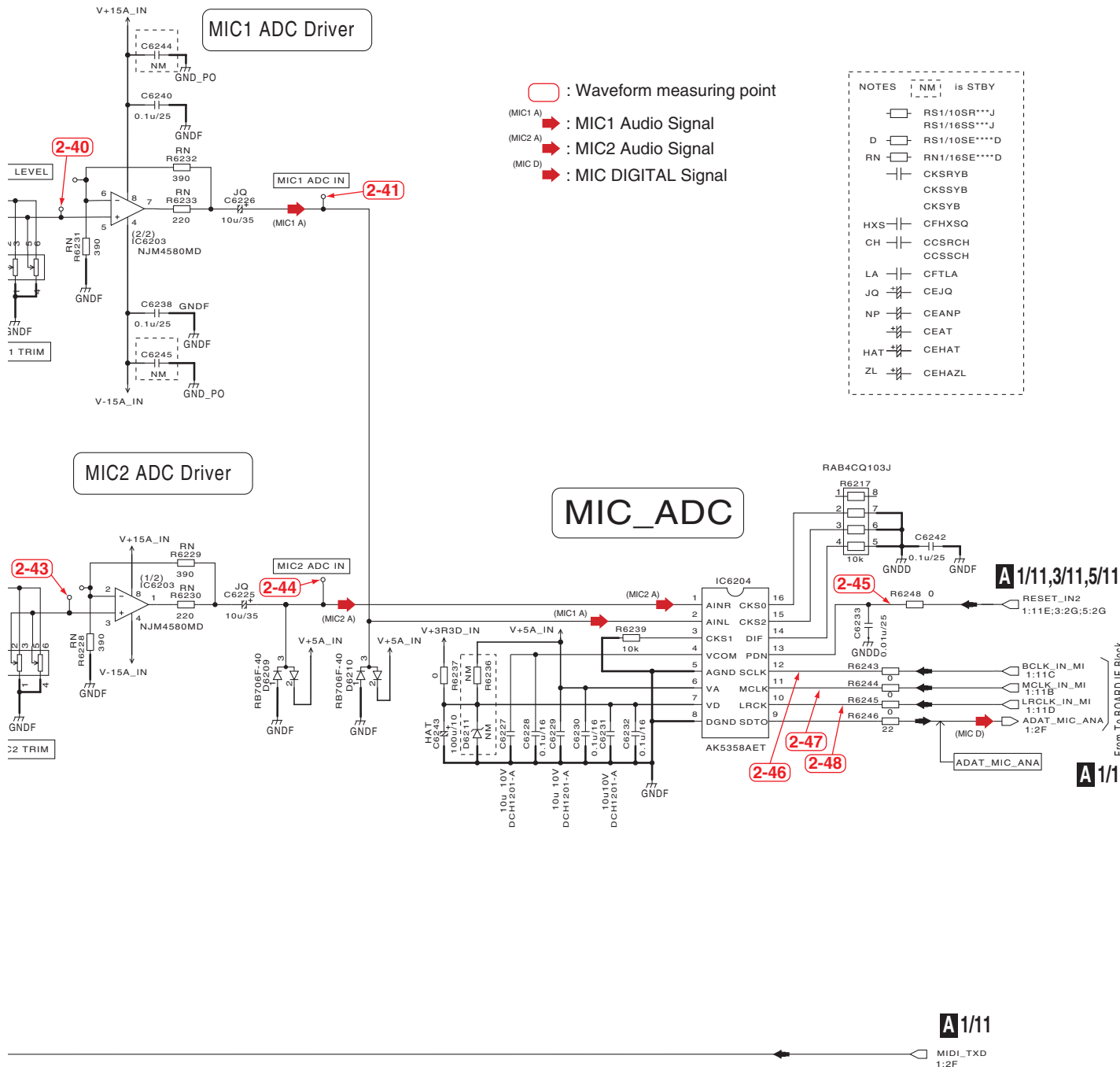
MIC2

MIDI OUT

DNH2736-A / SHIELD CASE(MIDI)



A11/11 INPUT ASSY (DWX3193)



○ : Waveform measuring point
 (MIC1 A) → : MIC1 Audio Signal
 (MIC2 A) → : MIC2 Audio Signal
 (MIC D) → : MIC DIGITAL Signal

NOTES

| | |
|---------------|---------|
| NM1 | is STBY |
| RS1/10SR***J | |
| RS1/16SS***J | |
| RS1/10SE****D | |
| RN1/16SE****D | |
| CKSRYB | |
| CKSSYB | |
| CKSYB | |
| CFHXSQ | |
| CCSRCH | |
| CCSSCH | |
| CFTLA | |
| CEJQ | |
| CEANP | |
| CEAT | |
| CEHAT | |
| CEHAZL | |

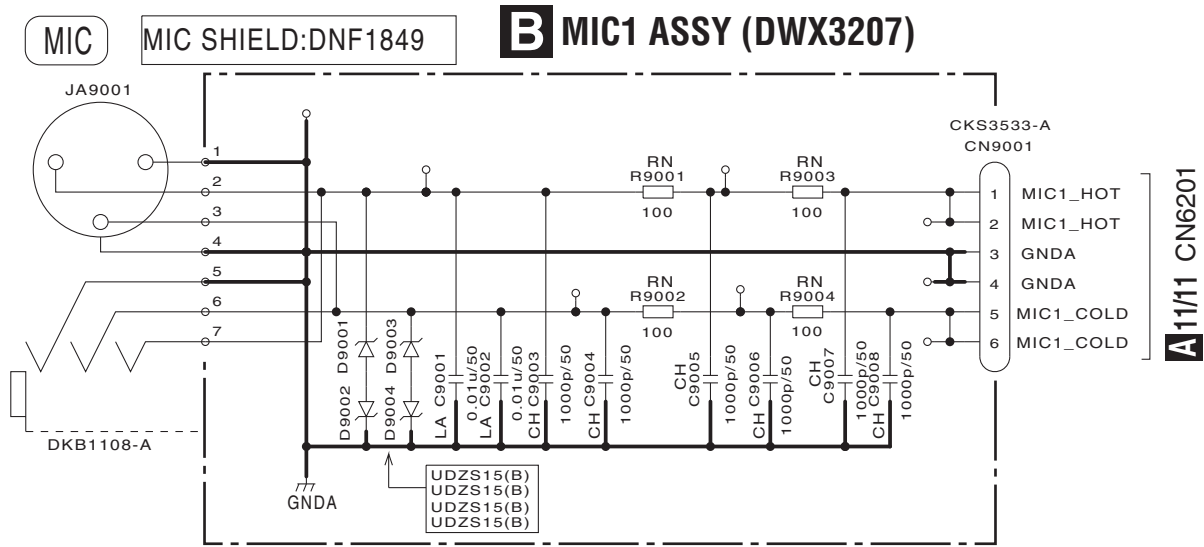
A1/11

MIDI_TXD 1:2F

10.12 MIC1 and TRM1 to TRM4 ASSYS

1 2 3 4

A

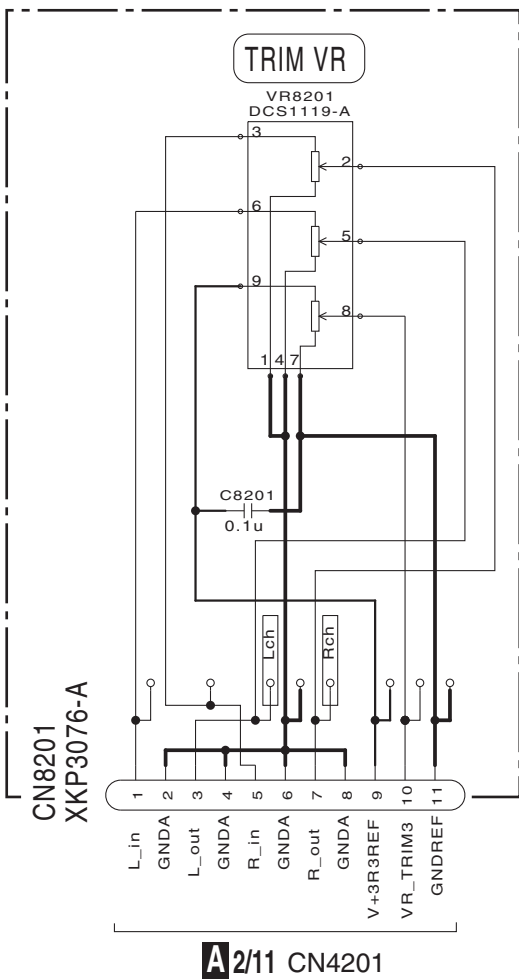


NOTE
C
L
R

NOT
||

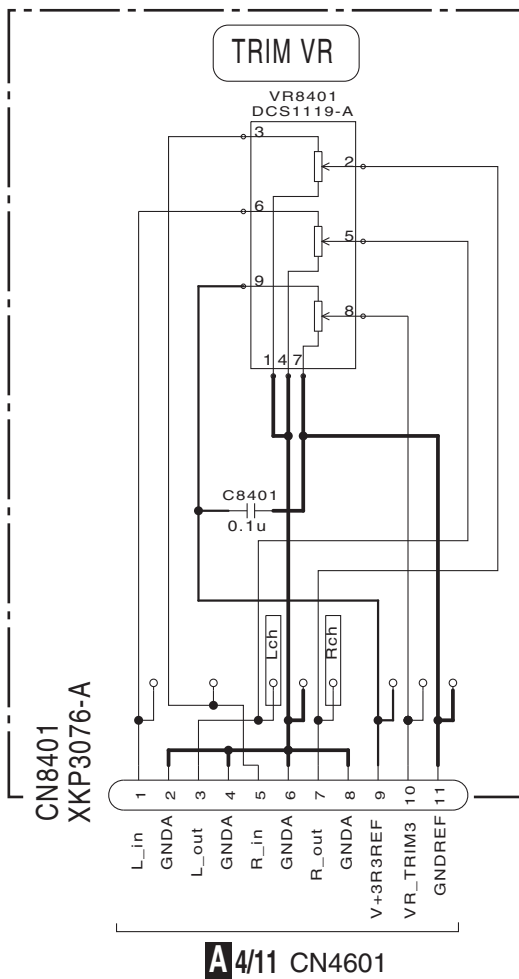
C

C TRM1 ASSY (DWX3203)



A2/11 CN4201

D TRM2 ASSY (DWX3204)




A4/11 CN4601

F

B C D

1 2 3 4

NOTES NM is STBY

CH  CCSRCH

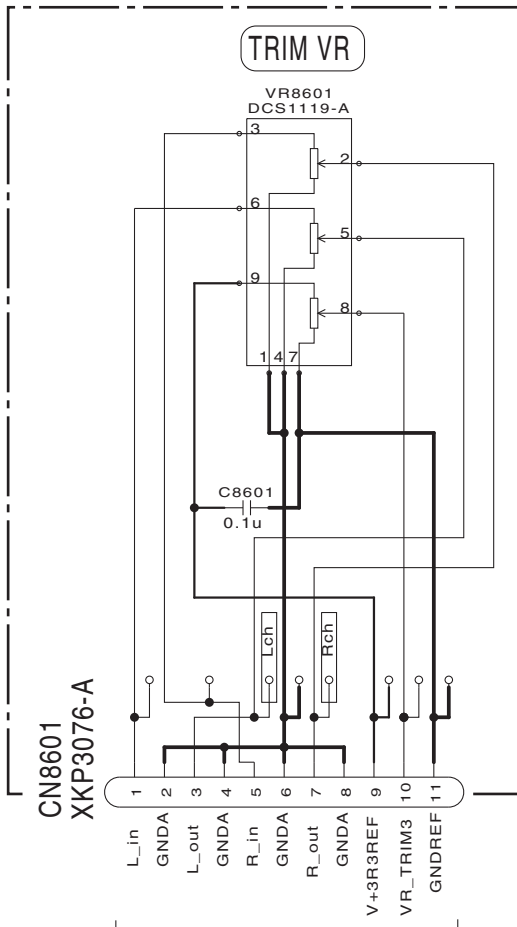
LA  CFTLA

RN  RN1/16SE****D

NOTES

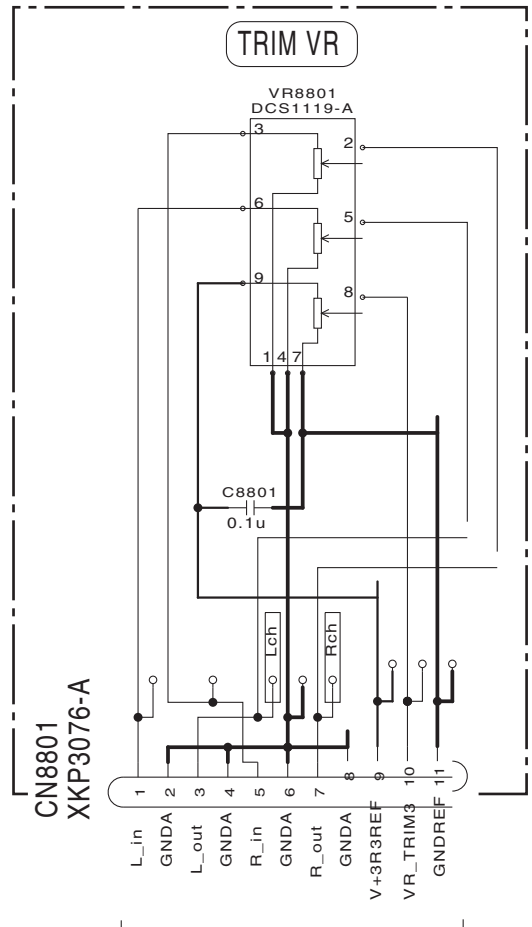
 CKSRYB

E TRM3 ASSY (DWX3205)



A 6/11 CN5001

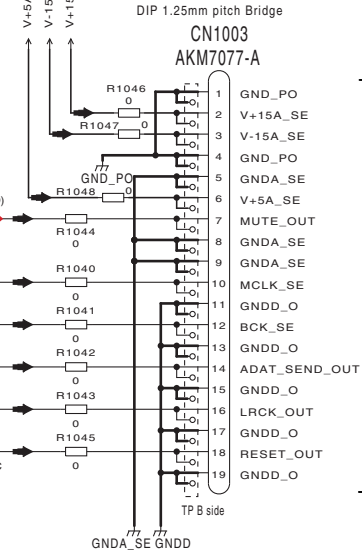
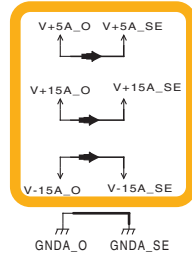
F TRM4 ASSY (DWX3206)



A 8/11 CN5401

- (CH1 D) ➔ : CH1 DIGITAL Signal (from INPUT Assy)
- (CH2 D) ➔ : CH2 DIGITAL Signal (from INPUT Assy)
- (CH3 D) ➔ : CH3 DIGITAL Signal (from INPUT Assy)
- (CH4 D) ➔ : CH4 DIGITAL Signal (from INPUT Assy)
- (MI D) ➔ : MI DIGITAL Signal (from INPUT Assy)
- (RET D) ➔ : RET DIGITAL Signal (from INPUT Assy)
- (SEND D) ➔ : SEND OUT DIGITAL Signal

G1/21 MAIN ASSY (DWX3190)



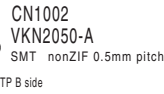
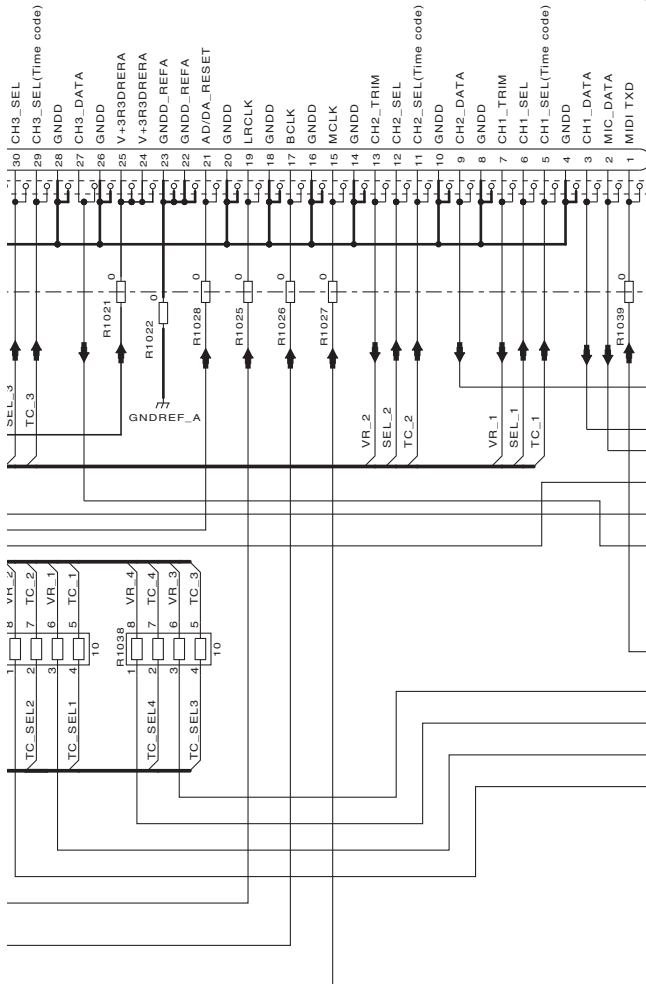
G 17/21,19/21,20/21 MUTE_OUT (SEND D) 17:9B;19:2D;19:2H;20:2H

From OUTPUT IF Block
G 17/21

MCLK_OUT_SE 17:9E
BCLK_OUT_SE 17:9E
ADAT_SEND_OUT 17:9G
LRCLK_OUT_SE 17:9F
RESET_OUT 17:9F;18:2C;19:2E;20:2C

J CN6401

A 1/11 CN4002 (FFC : DDD1550-)



Analog Block
Digital Block

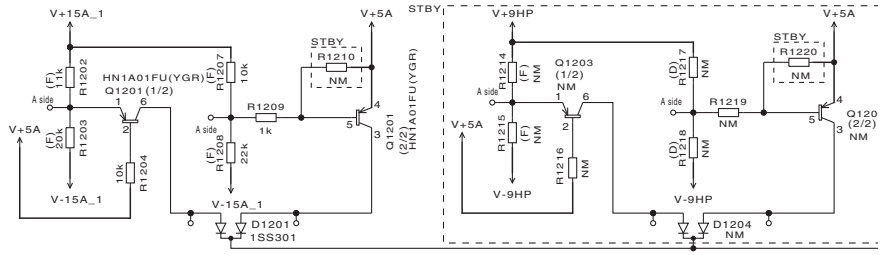
To DSP_2 Block
G 15/21

From/To MAIN Ucom Block
G 12/21

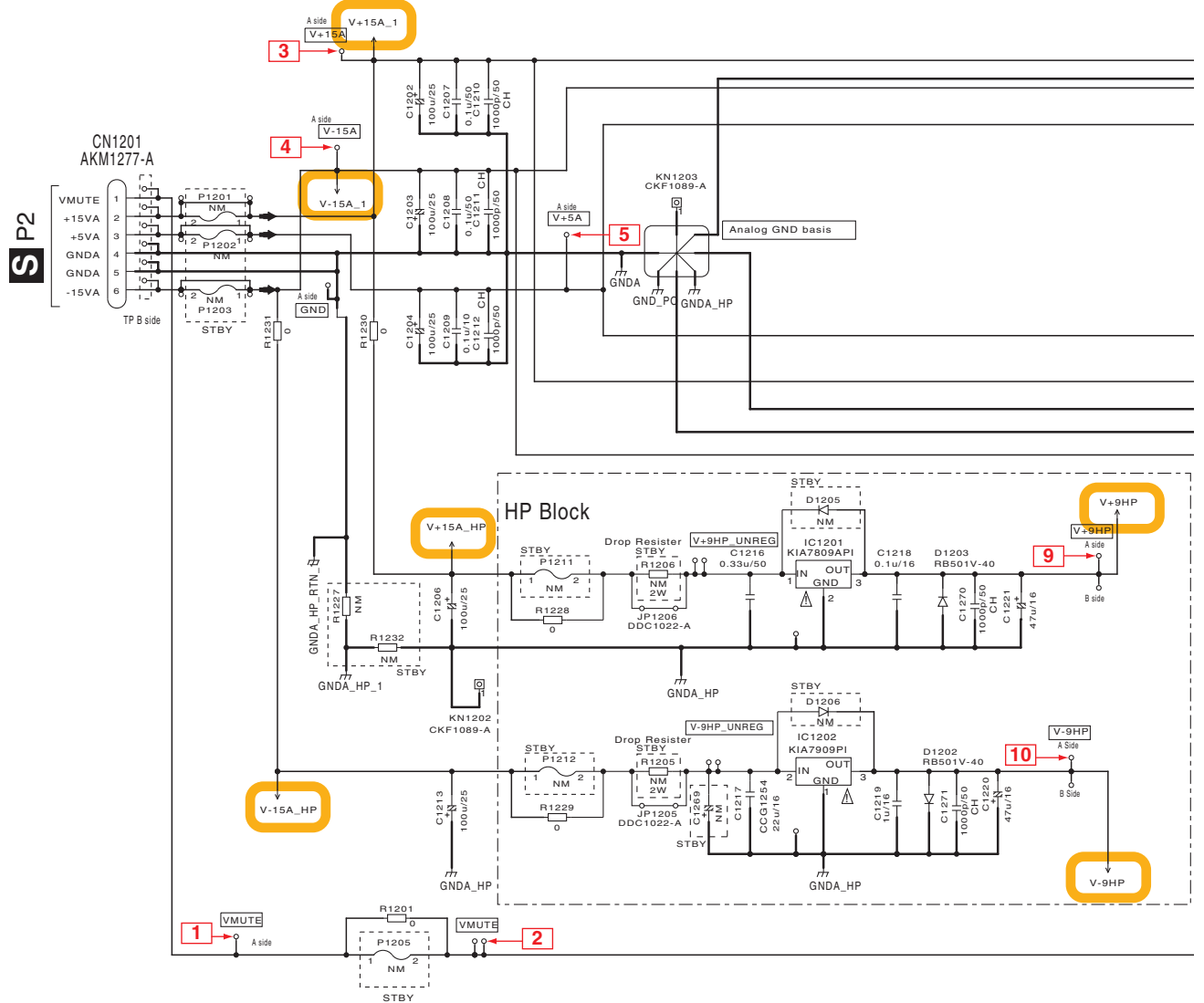
BOARD IF

10.14 MAIN ASSY (2/21)

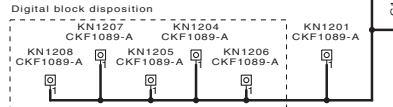
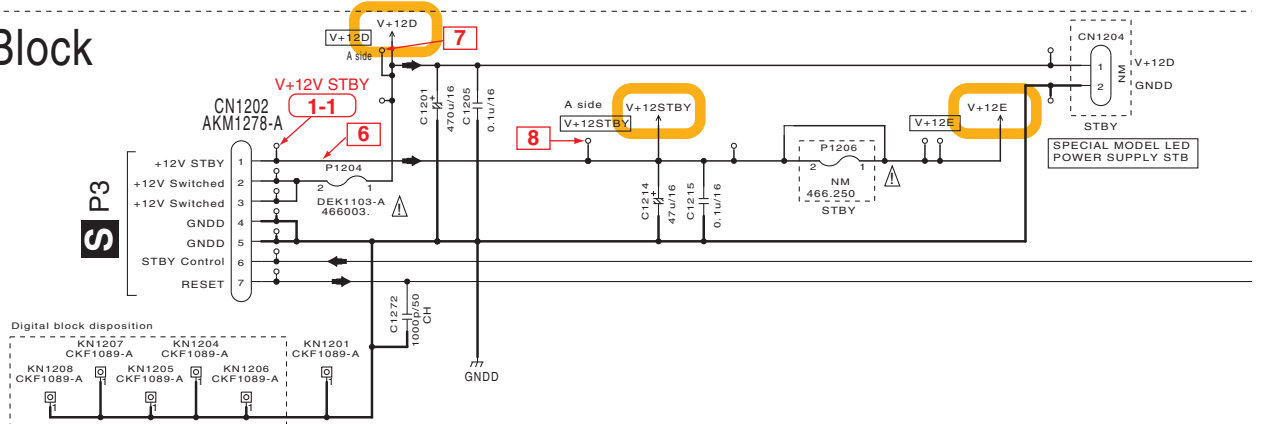
Analog voltage abnormality detect circuit



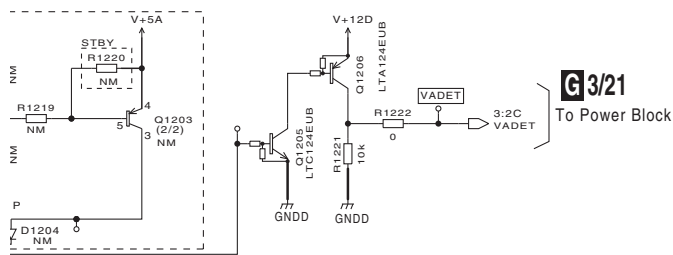
Analog Block



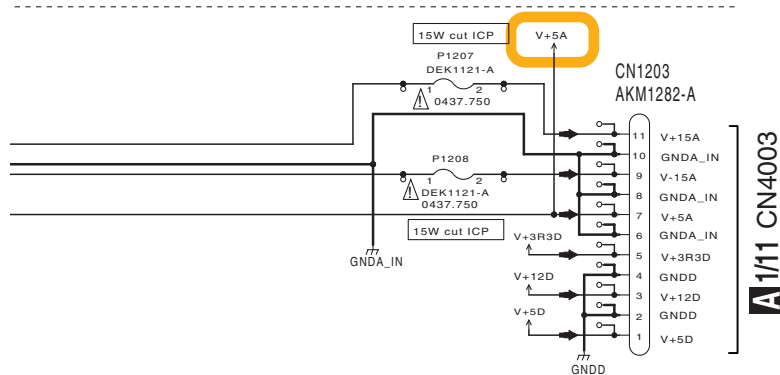
Digital Block



G2/21 MAIN ASSY (DWX3190)



| | Low value | Hi value |
|-------|-----------|----------|
| V+5A | 4.28V | 5.61V |
| V+9HP | 8.23V | 9.94V |
| V-9HP | -5.96V | -11.82V |
| V+15A | 13.38V | 16.74V |
| V-15A | -11.83V | -18.57V |



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

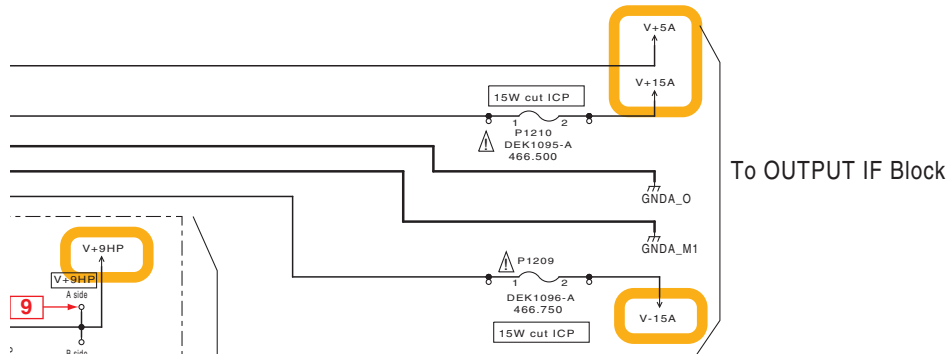
466.250 (DEK1093-A-T 250mA)
 MFD. BY LITTELFUSE INC. FOR P1206

0437.750 (DEK1121-A-T 750mA)
 MFD. BY LITTELFUSE INC. FOR P1207,P1208

466.750 (DEK1096-A-T 750mA)
 MFD. BY LITTELFUSE INC. FOR P1209

466.500 (DEK1095-A-T 500mA)
 MFD. BY LITTELFUSE INC. FOR P1210

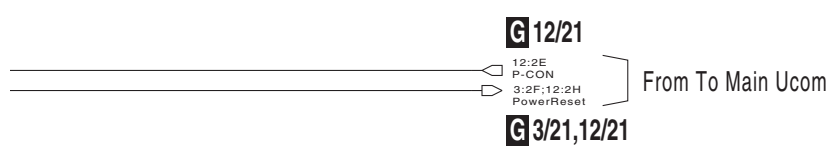
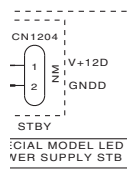
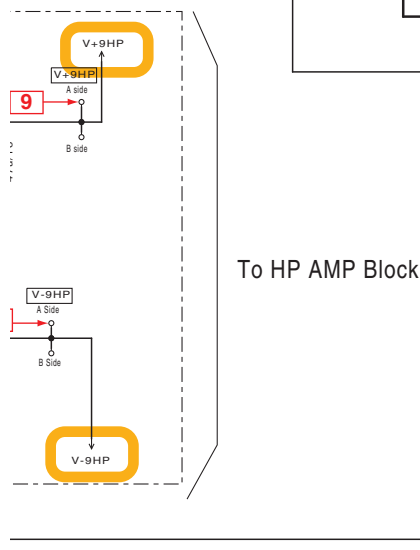
466003. (DEK1103-A-T 3A)
 MFD. BY LITTELFUSE INC. FOR P1204



The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

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

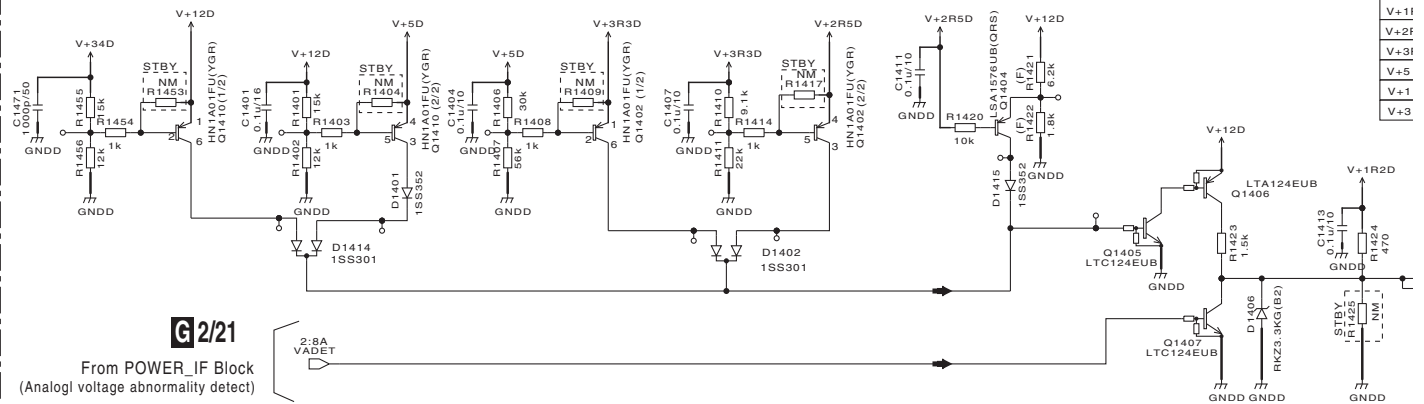
- : Voltage measuring point
- : Waveform measuring point



- NOTES**
- is STBY
 - RS1/16S****J
 - RS1/10S****J
 - RN RS1/16S****J
 - RN/10S****J
 - (D) RS1/16S****D
 - RS1/10S****D
 - (F) RS1/16S****F
 - RS1/10S****F
 - 1/8W RS1/8S****J
 - 1/4W RS1/4S****J
 - 2W RS2****J
 - RAB4CQ****J
 - CKSRVB****
 - CKSSYB****
 - CH CCSRCH****
 - CCSSCH****
 - CCSQCH****
 - CEVW****
 - HA CEHVAW****
 - NP CEVWNP****

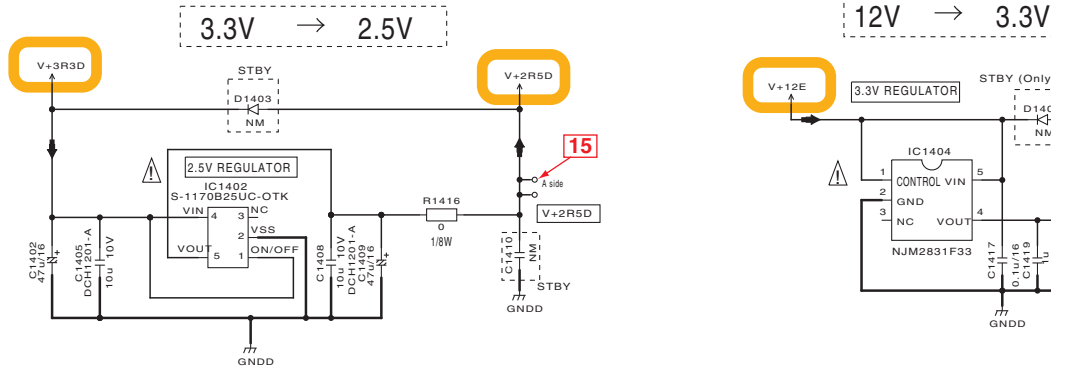
10.15 MAIN ASSY (3/21)

Digital voltage abnormality detect circuit



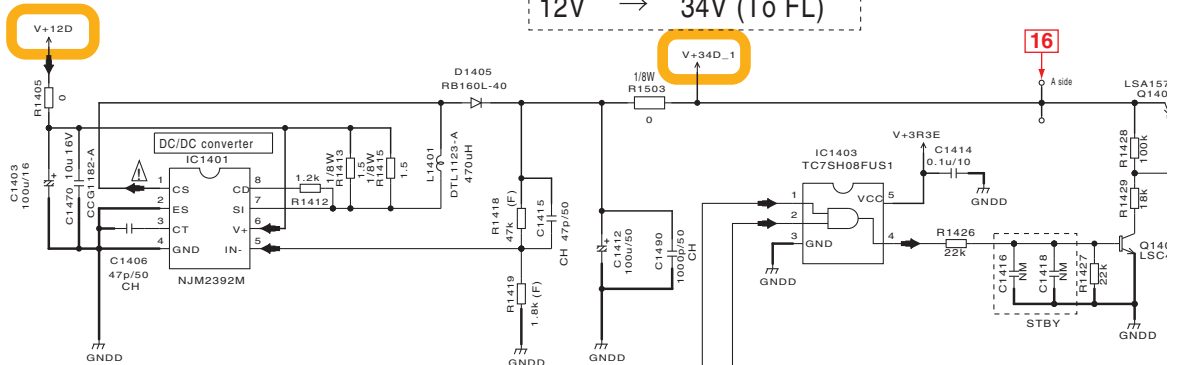
NOTES

- 1. NM is STBY
- RS1/16S****J
- RS1/10S****J
- RN RS1/16S****J
- RN1/10S****J
- (D) RS1/16S****D
- RS1/10S****J
- (F) RS1/16S****F
- RS1/8S****J
- RS1/4S****J
- RS2****J
- RAB4CQ****J
- CKSRYB****
- CKSSYB****
- CCSRCH****
- CCSCH****
- CCSOCH****
- CEVW****
- CEVAV****
- CEVWNP****



1-4 V+34D Block

12V → 34V (To FL)



G 2/21, 12/21

From POWER_IF 2.8H; 12.2H PowerReset

From MAIN_CPU 12; 14J FL_Vcont

G 12/21

| PowerReset | FL_Vcont | IC1403 OUTPUT | V+34D |
|------------|----------|---------------|-------|
| High | High | High | ○ |
| Low | High | Low | × |
| High | Low | Low | × |
| Low | Low | Low | × |

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

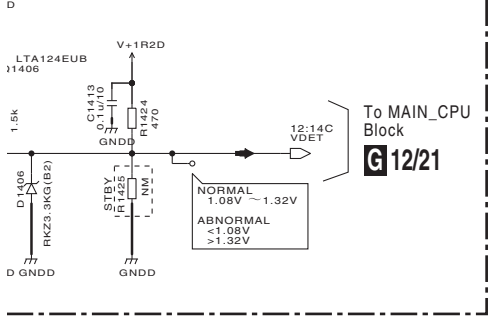
⚠印の部品は、安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

□ :
○ :

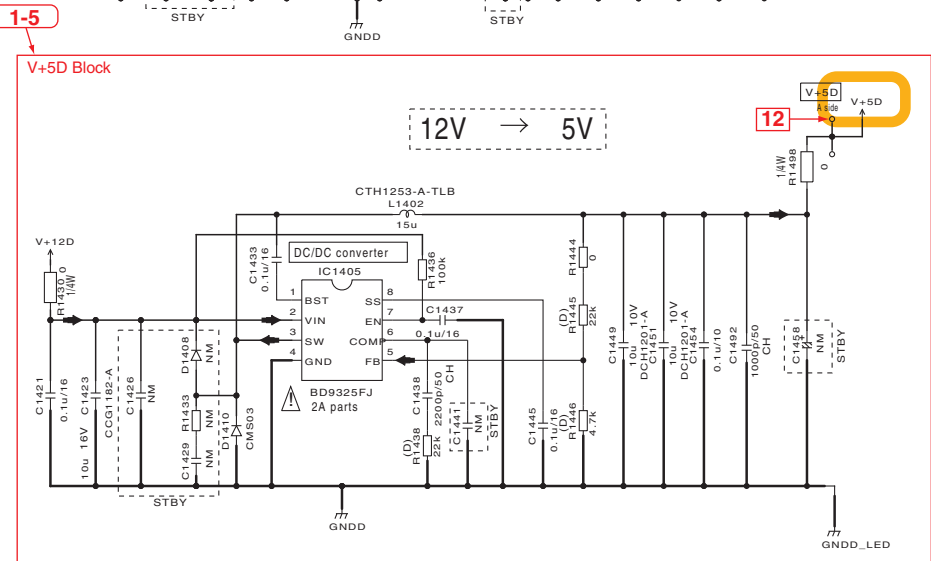
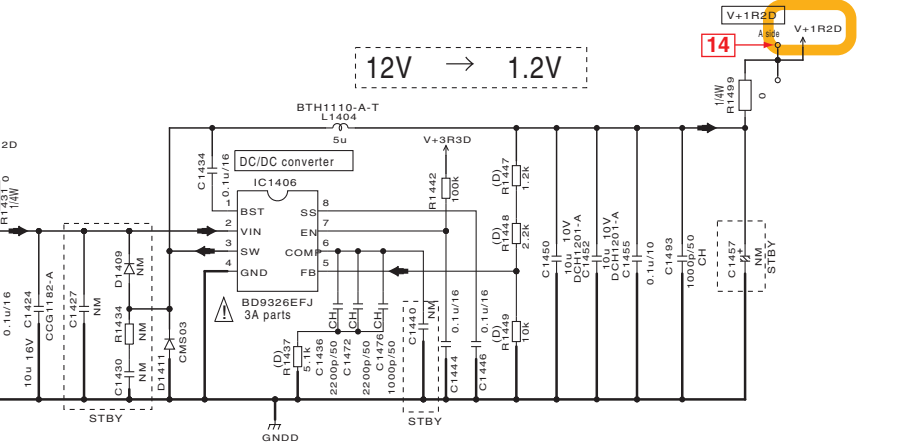
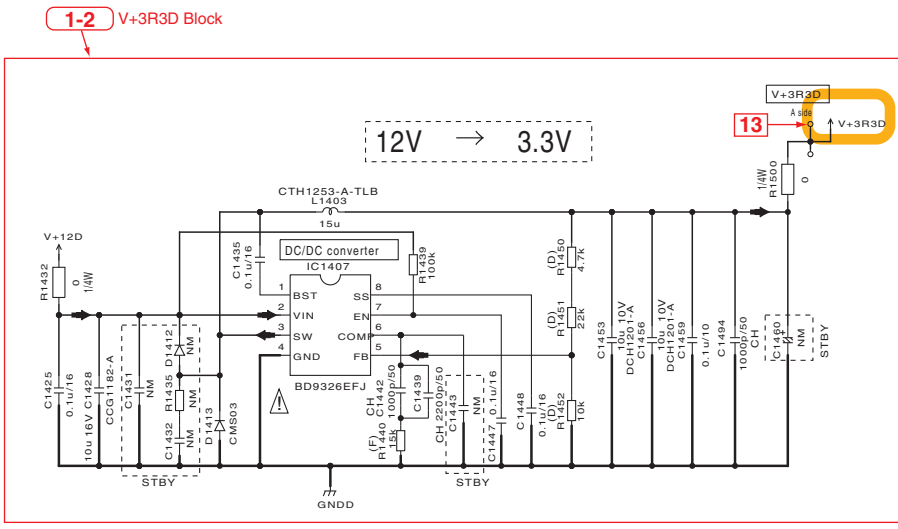
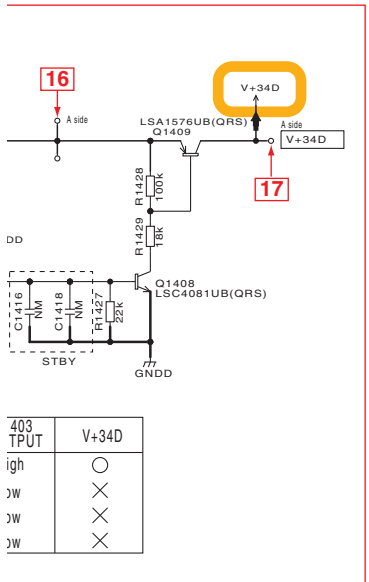
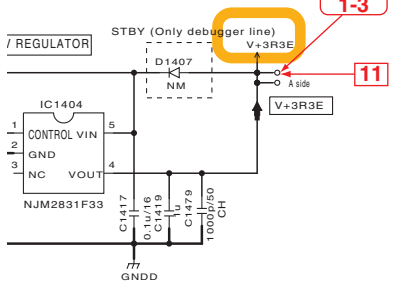
G3/21 MAIN ASSY (DWX3190)

DIGITAL POWER SUPPLY CIRCUIT

| | Low value | Hi value |
|--------|-----------|----------|
| V+1R2D | 1.08V | 1.32V |
| V+2R5 | 2.22V | 2.81V |
| V+3R3D | 2.85V | 3.81V |
| V+5D | 4.33V | 5.82V |
| V+12D | 10.4V | 13.24V |
| V+34D | 25.58V | |



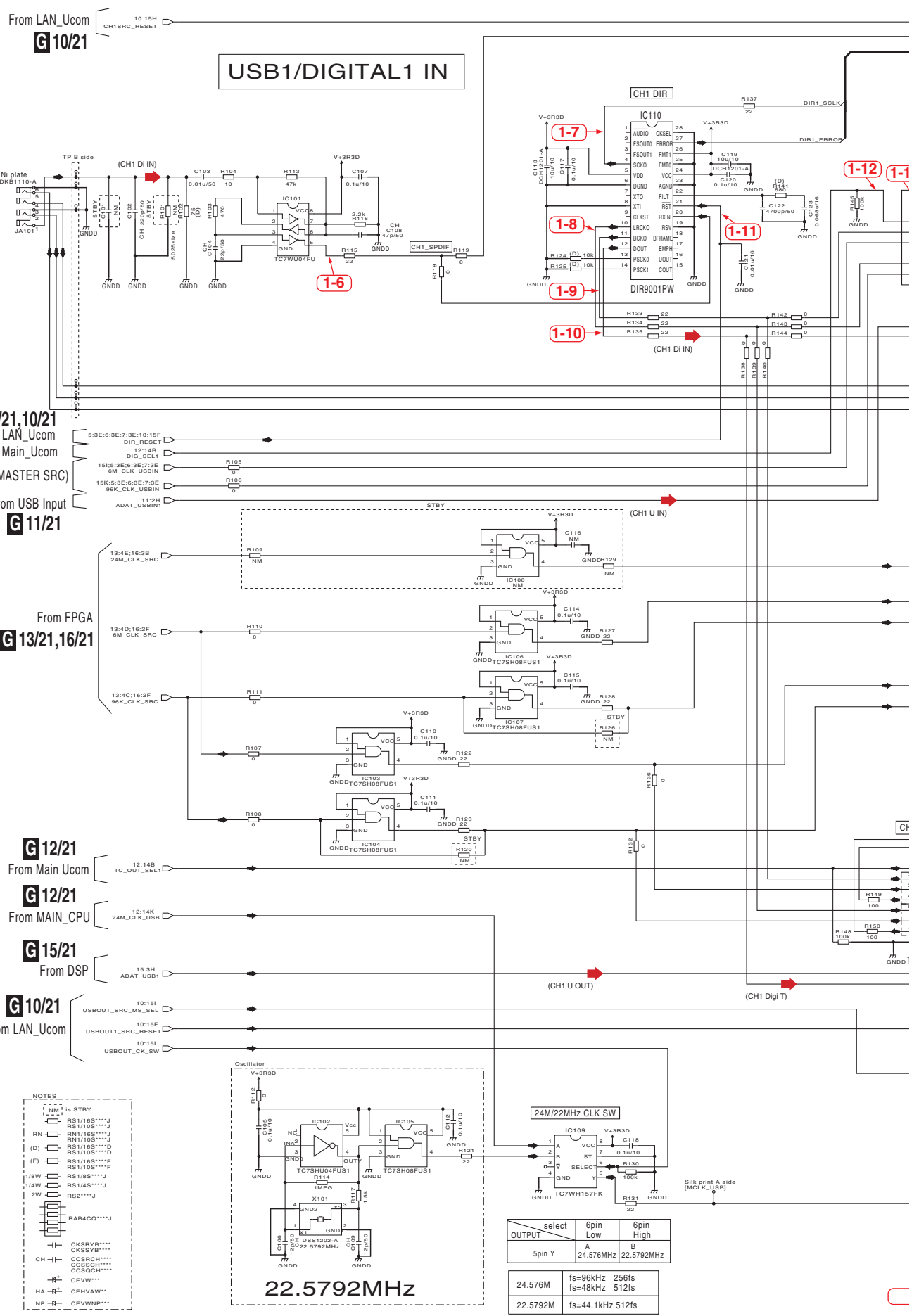
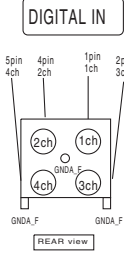
12V → 3.3V(EuP)



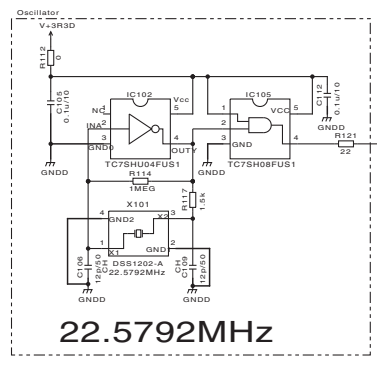
□ : Voltage measuring point
 ○ : Waveform measuring point

10.16 MAIN ASSY (4/21)

A
B
C
D
E
F



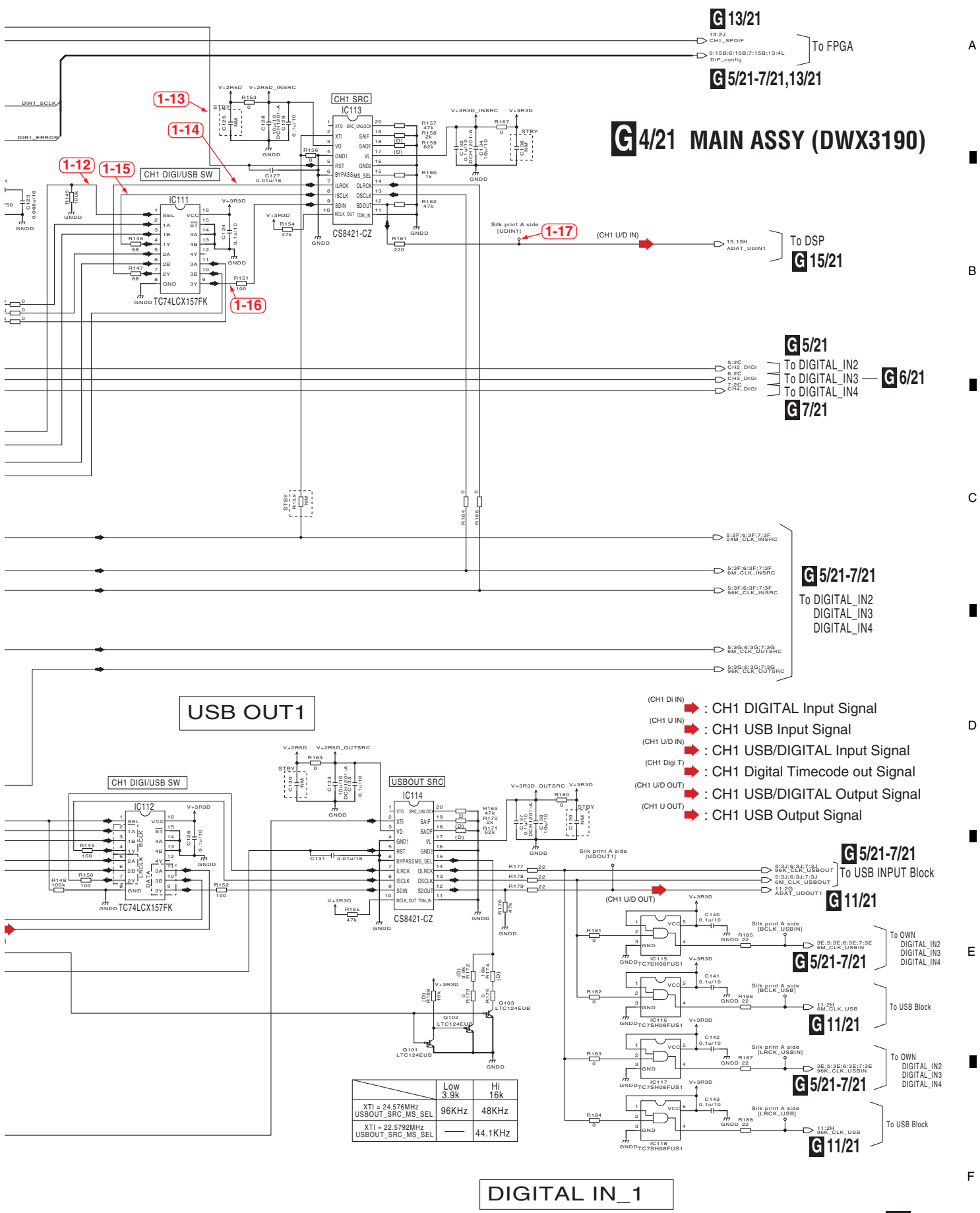
- NOTES**
- 1- NM is STBY
 - RS1/16S****J
 - RS1/10S****J
 - RN RS1/16S****J
 - RN1/10S****J
 - (D) RS1/16S****D
 - RS1/10S****D
 - (F) RS1/16S****F
 - RS1/10S****F
 - 1/8W RS1/8S****J
 - 1/4W RS1/4S****J
 - 2W RS2****J
 - RAB4CQ****J
 - CKSRVB****
 - CKSYB****
 - CH CCSRCH****
 - CCSRCH****
 - CCSOCH****
 - CEVW****
 - HA CEHVAW****
 - NP CEVWNP****



24M/22MHz CLK SW

| OUTPUT | select | 6pin Low | 6pin High |
|----------|--------|------------|------------|
| 5pin Y | A | 24.576MHz | 22.5792MHz |
| 24.576M | | fs=96kHz | 256fs |
| | | fs=48kHz | 512fs |
| 22.5792M | | fs=44.1kHz | 512fs |

G4/21



G13/21

G5/21-7/21,13/21

G4/21 MAIN ASSY (DWX3190)

G5/21

G6/21

G7/21

G5/21-7/21

To DIGITAL_IN2
DIGITAL_IN3
DIGITAL_IN4

USB OUT1

- (CH1 Di IN) : CH1 DIGITAL Input Signal
- (CH1 U IN) : CH1 USB Input Signal
- (CH1 U/D IN) : CH1 USB/DIGITAL Input Signal
- (CH1 Dig T) : CH1 Digital Timecode out Signal
- (CH1 U/D OUT) : CH1 USB/DIGITAL Output Signal
- (CH1 U OUT) : CH1 USB Output Signal

G5/21-7/21

G11/21

G5/21-7/21

G11/21

G5/21-7/21

G11/21

| | | |
|-------------------|-------|---------|
| | Low | Hi |
| XT1 = 24.576MHz | 3.9k | 48KHz |
| USBOUT_SRC_MS_SEL | 96KHz | 48KHz |
| XT1 = 22.5792MHz | | 44.1KHz |

DIGITAL IN_1

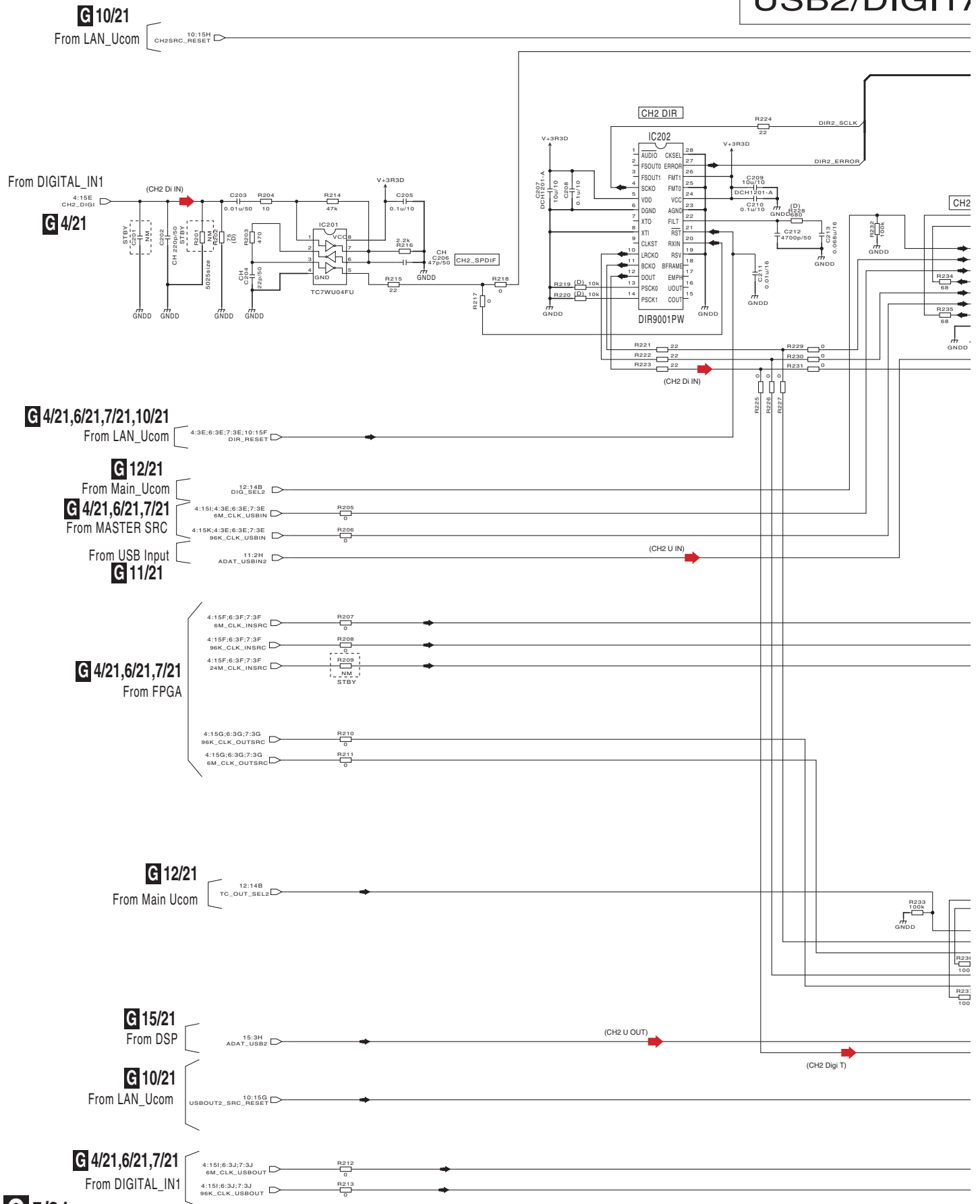
□ : Waveform measuring point

G4/21

10.17 MAIN ASSY (5/21)

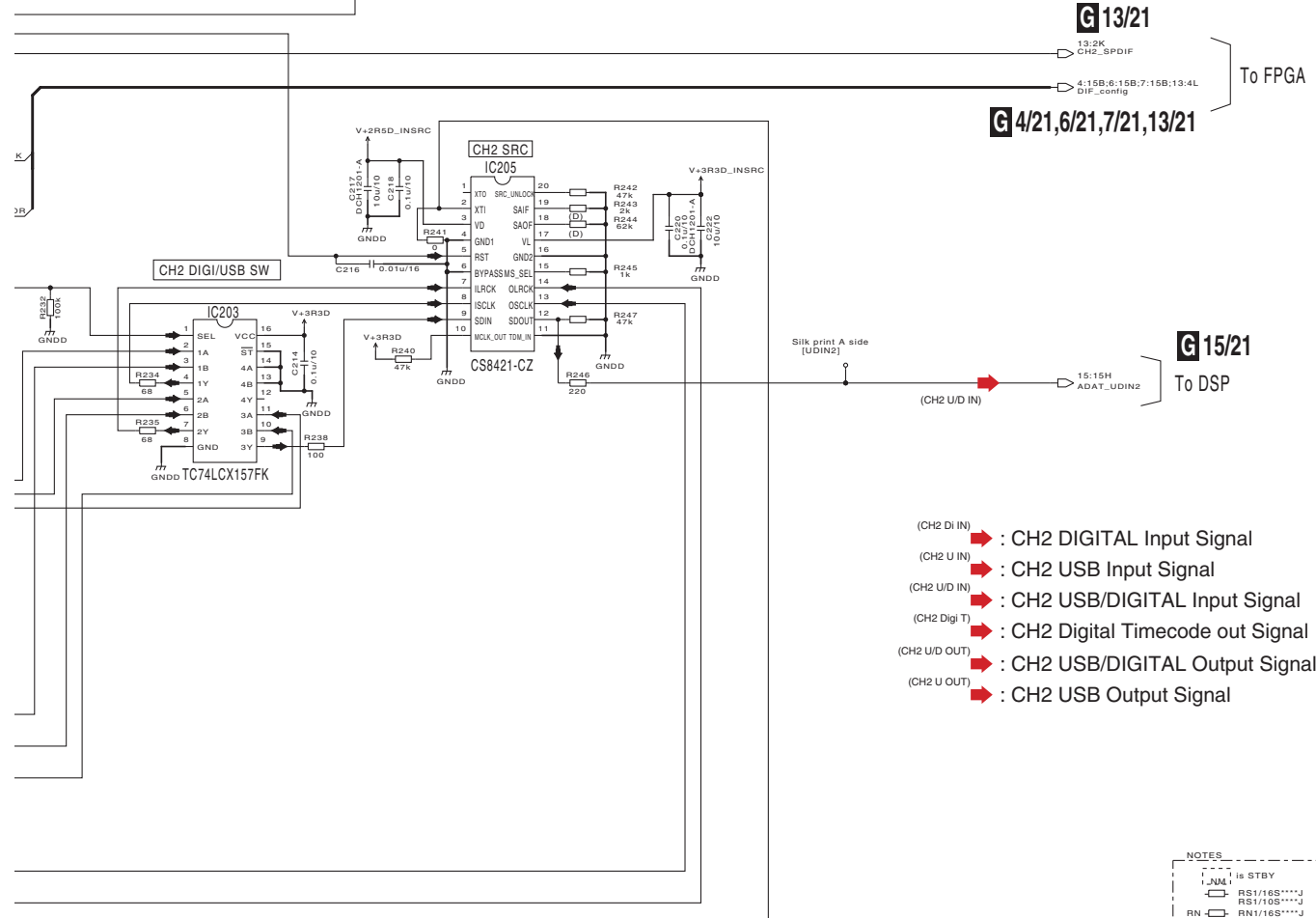
USB2/DIGIT

A
B
C
D
E
F



G5/21 MAIN ASSY (DWX3190)

/DIGITAL2 IN



G13/21
13:2K CH2_8PDIIF
4:15B;6:15B;7:15B;13:4L DIF_config
To FPGA

G4/21,6/21,7/21,13/21

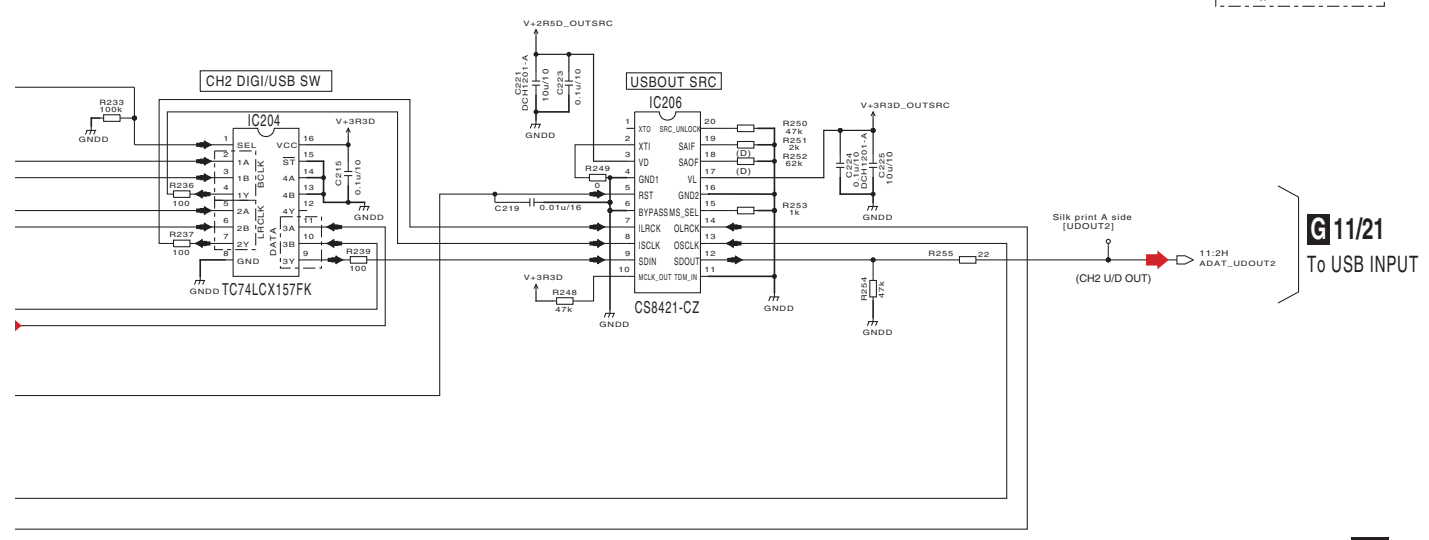
G15/21
15:15H ADAT_UDIN2
To DSP

- (CH2 DI IN) ➡ : CH2 DIGITAL Input Signal
- (CH2 U IN) ➡ : CH2 USB Input Signal
- (CH2 U/D IN) ➡ : CH2 USB/DIGITAL Input Signal
- (CH2 Digi T) ➡ : CH2 Digital Timecode out Signal
- (CH2 U/D OUT) ➡ : CH2 USB/DIGITAL Output Signal
- (CH2 U OUT) ➡ : CH2 USB Output Signal

NOTES

| | |
|---------|--------------|
| 1x STBY | RS1/16S****J |
| 1x NM | RS1/10S****J |
| 1x RN | RN1/16S****J |
| 1x (D) | RN1/10S****J |
| 1x (F) | RS1/16S****D |
| | RS1/10S****D |
| | RS1/16S****F |
| | RS1/10S****F |
| 1/8W | RS1/8S****J |
| 1/4W | RS1/4S****J |
| 2W | RS2****J |
| | RAB4CQ****J |
| | CKSRYB**** |
| | CKSSYB**** |
| CH | CCSRCH**** |
| | CCSSCH**** |
| | CEVW**** |
| HA | CEHVAW**** |
| NP | CEVWNP**** |

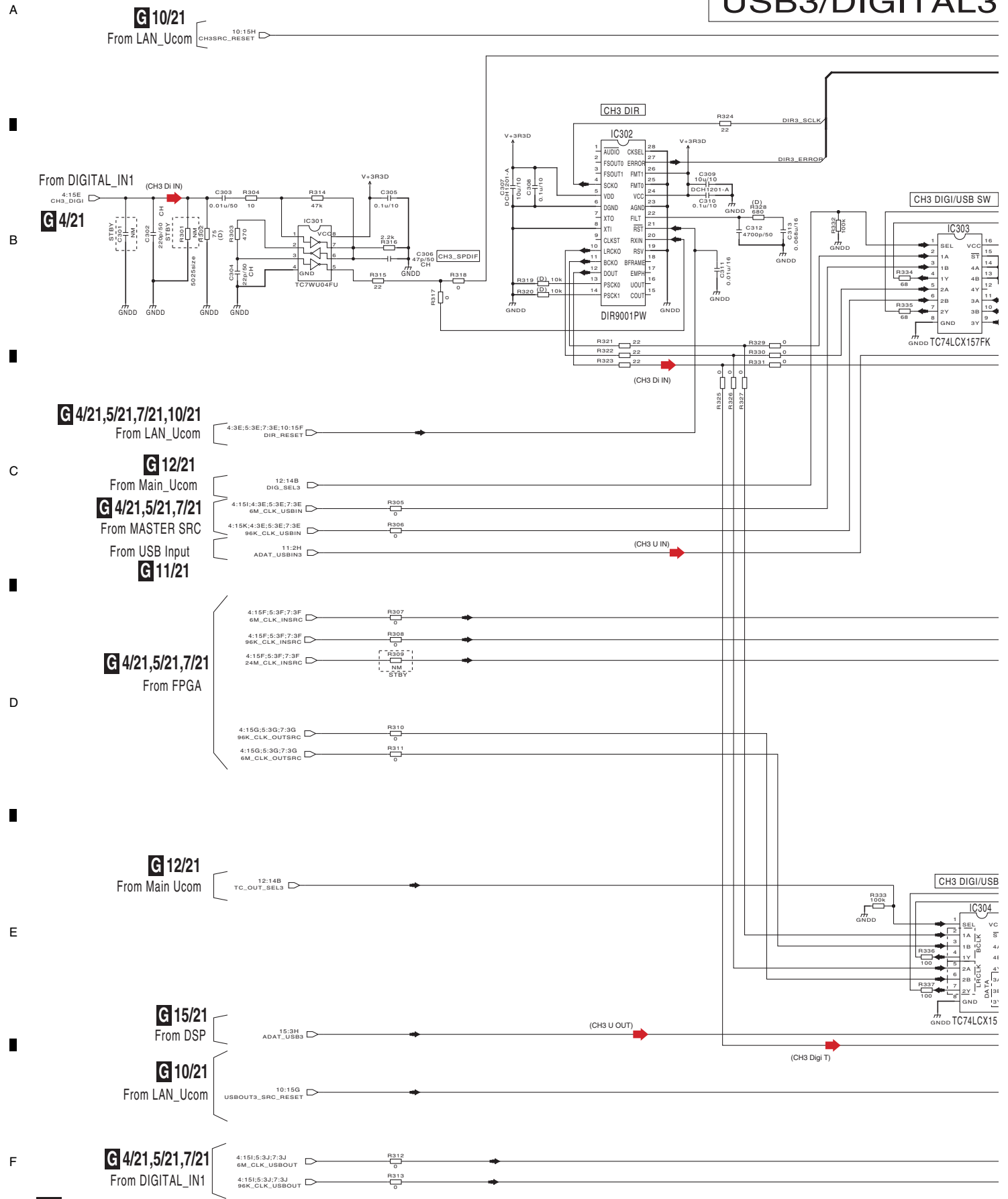
USB OUT2



G11/21
11:2H ADAT_UDOUT2
To USB INPUT

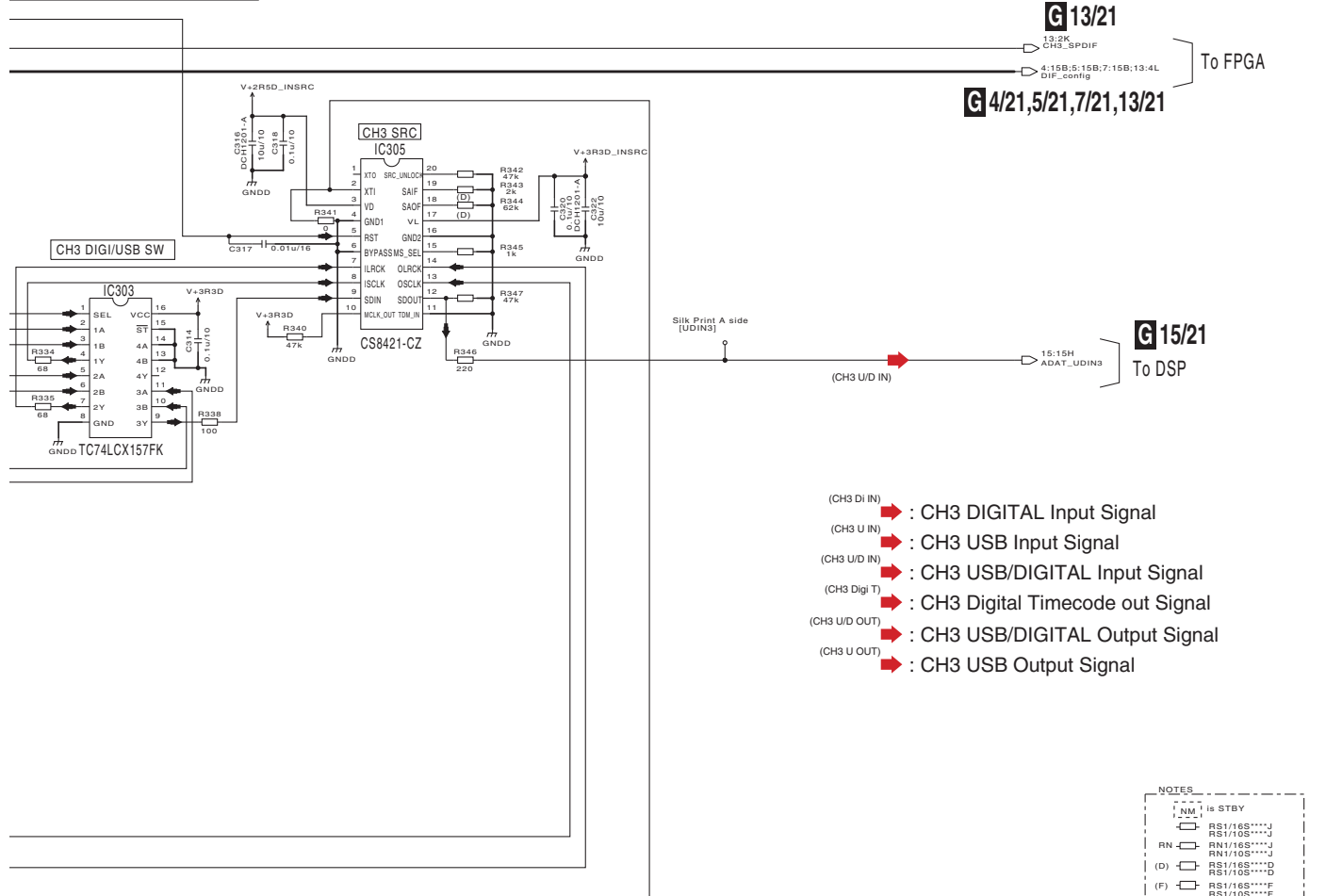
10.18 MAIN ASSY (6/21)

USB3/DIGITAL3



DIGITAL3 IN

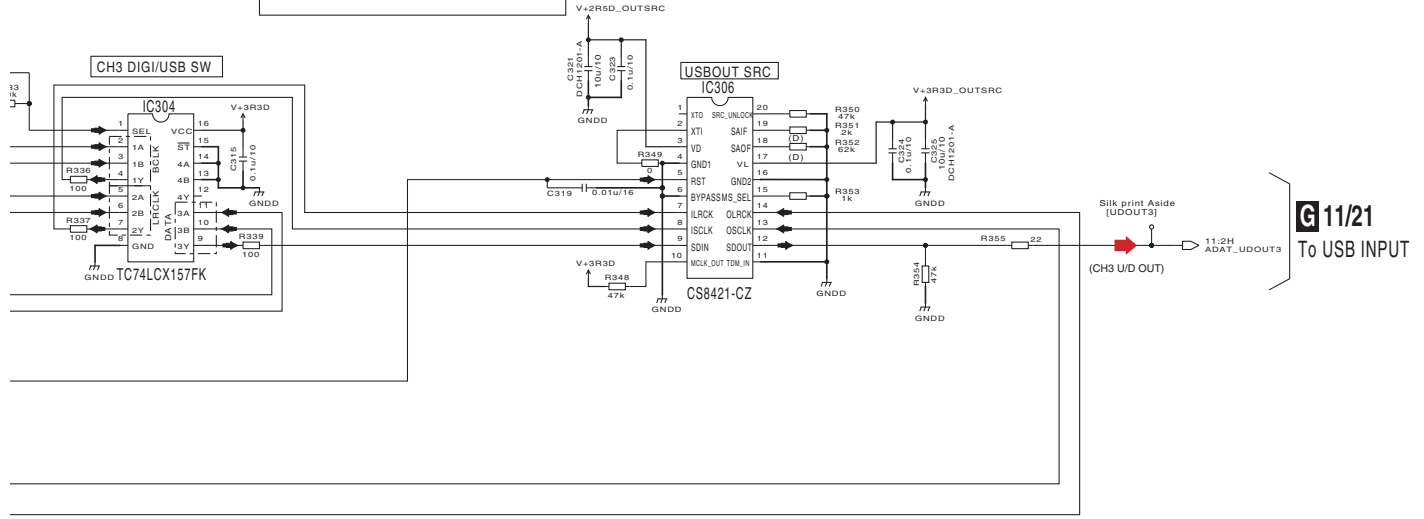
G6/21 MAIN ASSY (DWX3190)



NOTES

| | |
|------|--------------|
| 1 | 1s STBY |
| 1 | RS1/16S****J |
| 1 | RS1/10S****J |
| RN | RN1/16S****J |
| (D) | RS1/16S****D |
| (F) | RS1/16S****F |
| 1/8W | RS1/8S****J |
| 1/4W | RS1/4S****J |
| 2W | RS2****J |
| | RAB4CO****J |
| | CKSRVB**** |
| | CKSSYB**** |
| CH | CCSRCH**** |
| | CCSSCH**** |
| | CCSQCH**** |
| | CEVW**** |
| HA | CEVAV**** |
| NP | CEVWNP**** |

USB OUT3



10.19 MAIN ASSY (7/21)

USB4/DIGITA

A

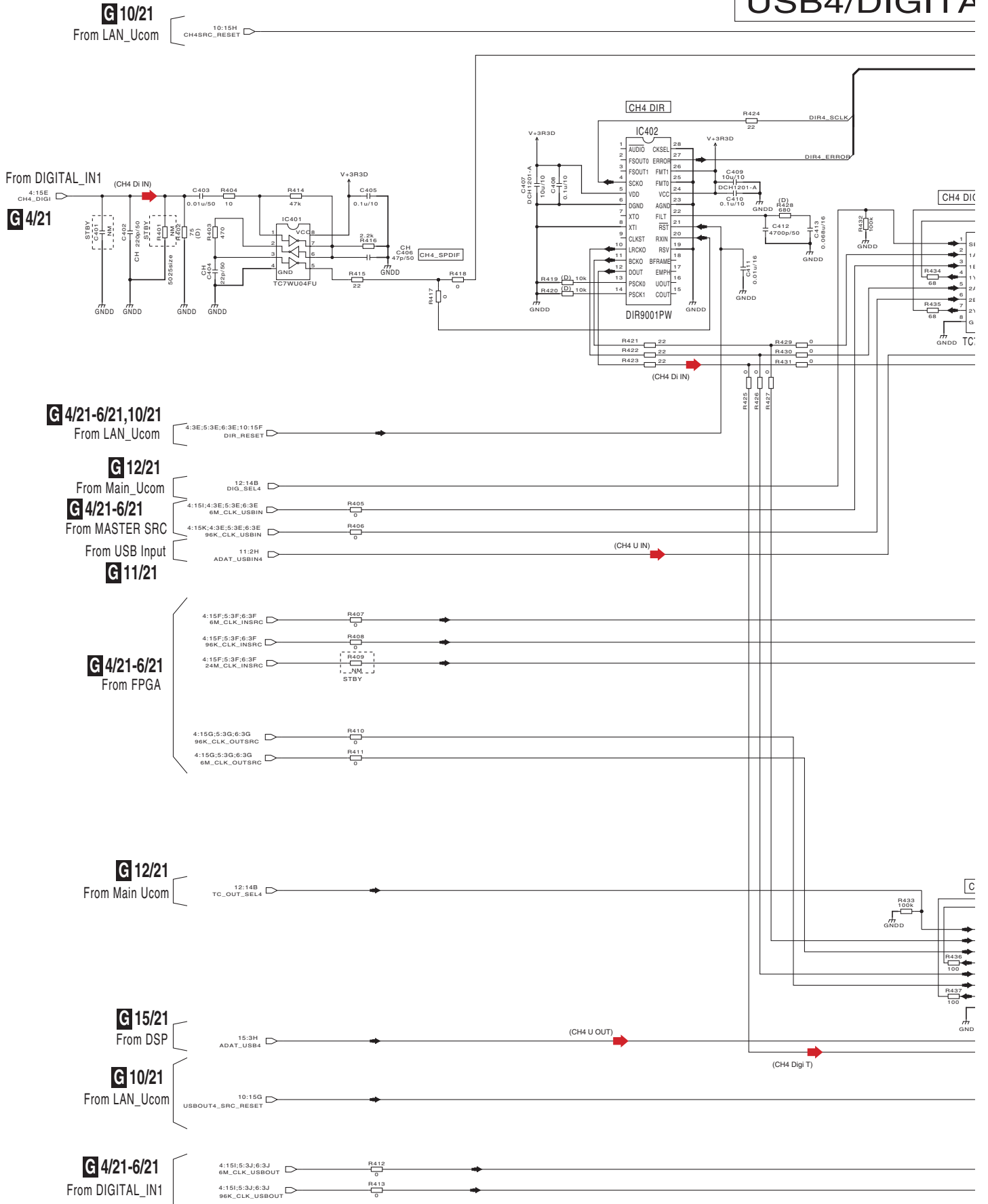
B

C

D

E

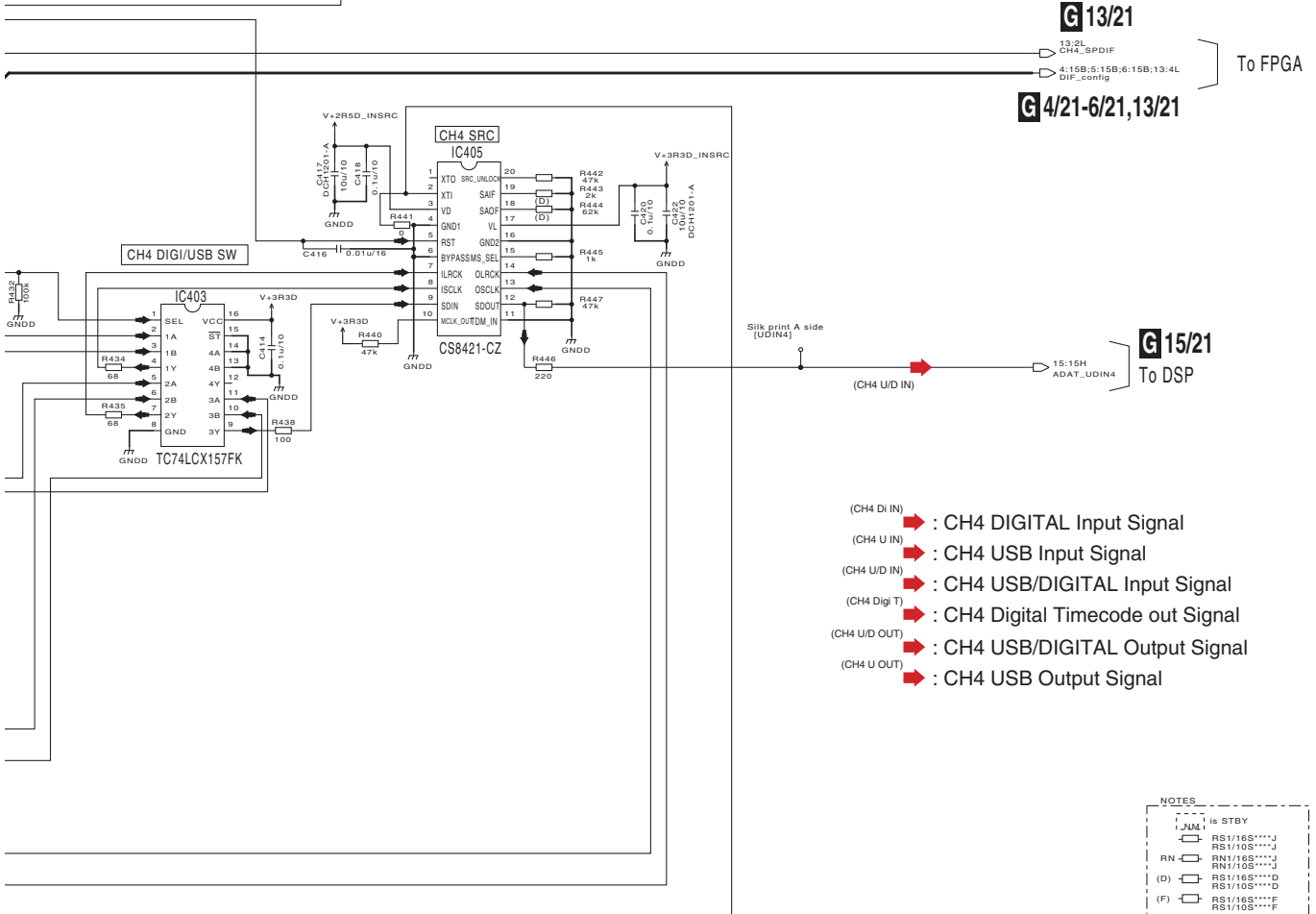
F



G7/21

DIGITAL4 IN

G7/21 MAIN ASSY (DWX3190)



G13/21
13:2L CH4_SPDIF
4:15B;5:15B;6:15B;13:4L DIF_config
G4/21-6/21,13/21

To FPGA

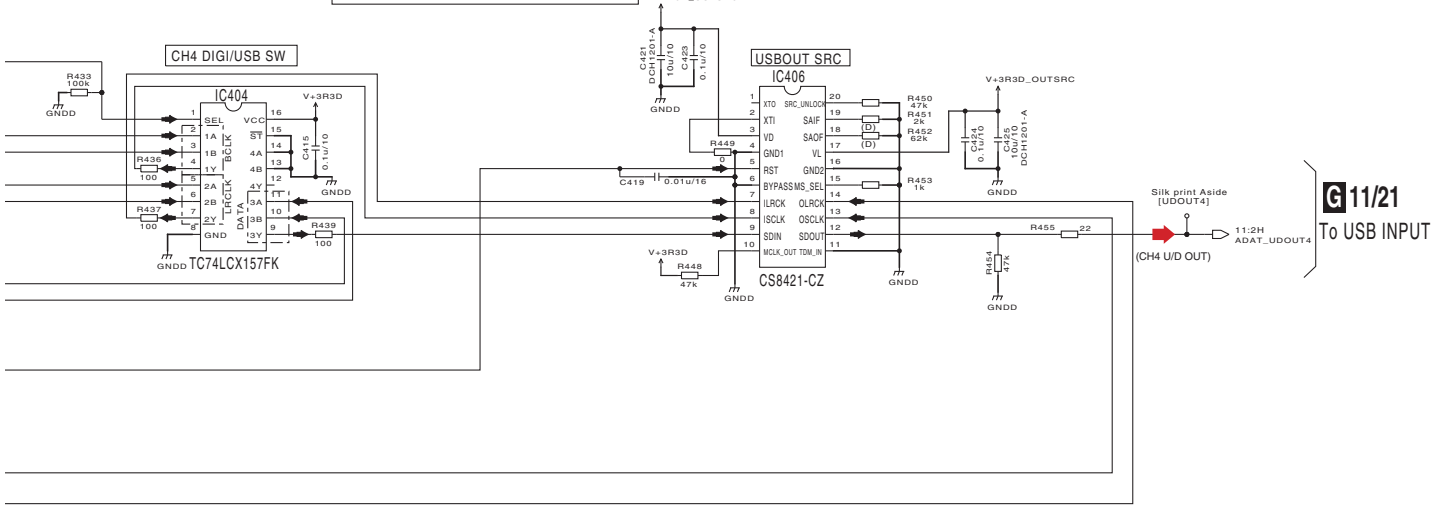
G15/21
15:15H ADAT_UDIN4
To DSP

- (CH4 Di IN) → : CH4 DIGITAL Input Signal
- (CH4 U IN) → : CH4 USB Input Signal
- (CH4 U/D IN) → : CH4 USB/DIGITAL Input Signal
- (CH4 Digi T) → : CH4 Digital Timecode out Signal
- (CH4 U/D OUT) → : CH4 USB/DIGITAL Output Signal
- (CH4 U OUT) → : CH4 USB Output Signal

NOTES

| | |
|------|--------------|
| STBY | RS1/16S****J |
| STBY | RS1/10S****J |
| RN | RN1/16S****J |
| RN | RN1/10S****J |
| (D) | RS1/16S****D |
| (D) | RS1/10S****D |
| (F) | RS1/16S****F |
| (F) | RS1/10S****F |
| 1/8W | RS1/8S****J |
| 1/4W | RS1/4S****J |
| 2W | RS2****J |
| | RAB4CQ****J |
| | CKSRYB**** |
| | CKSSYB**** |
| CH | CCSRCH**** |
| | CCSCH**** |
| | CCSOCH**** |
| | CEVW**** |
| HA | CEVAV**** |
| NP | CEVWN**** |

USB OUT4



G11/21
11:2H ADAT_UDOUT4
To USB INPUT

10.20 MAIN ASSY (8/21)

A

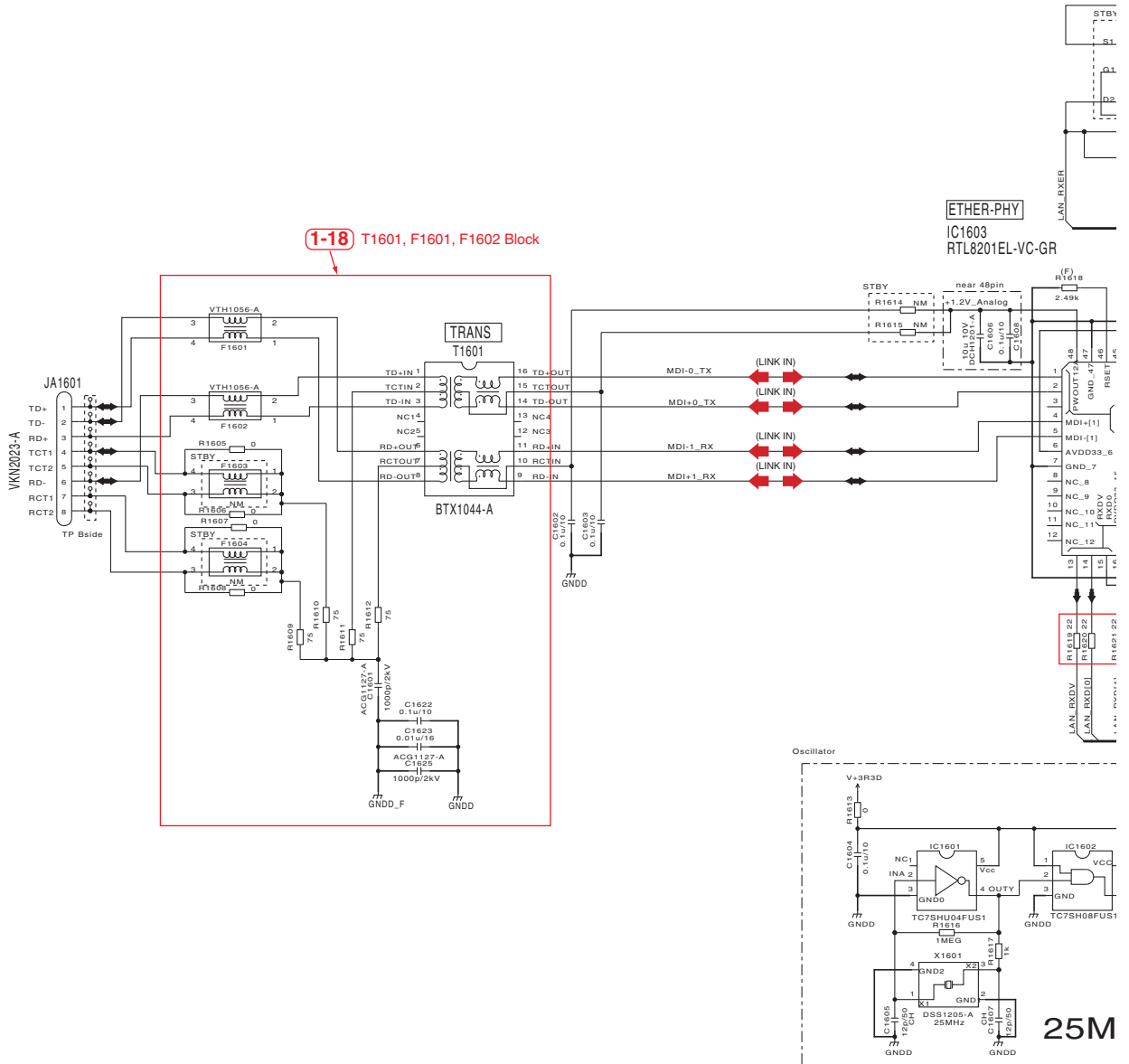
B

C

D

E

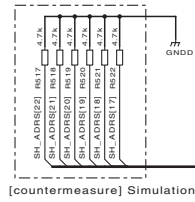
F



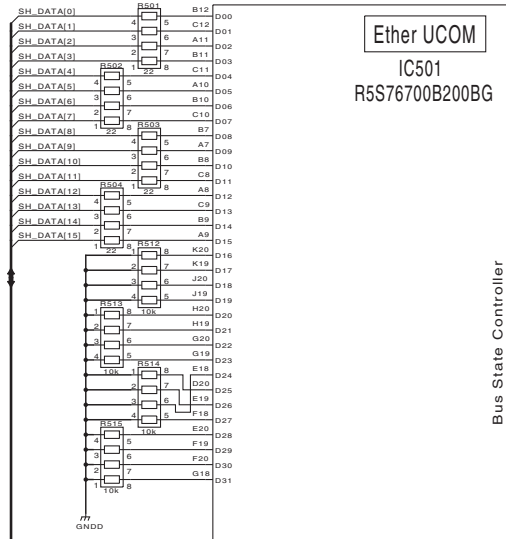
10.21 MAIN ASSY (9/21)

1 2 3 4

A

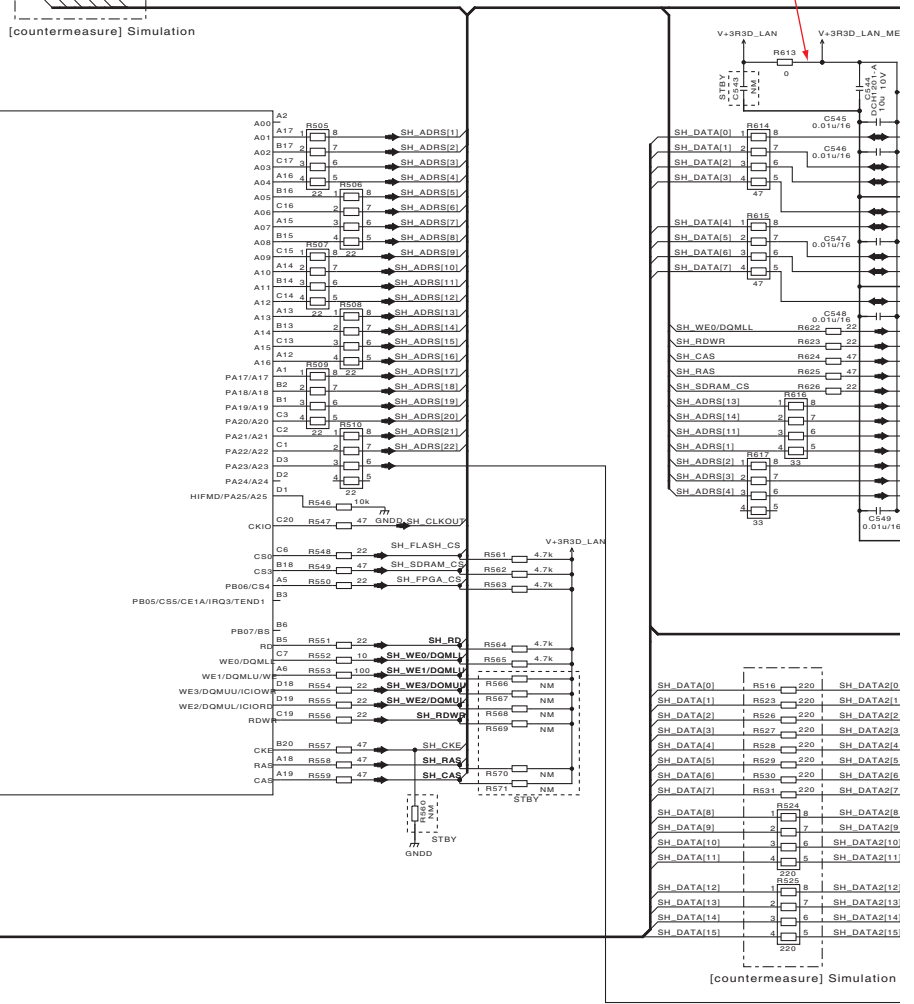


B



Bus State Controller

C

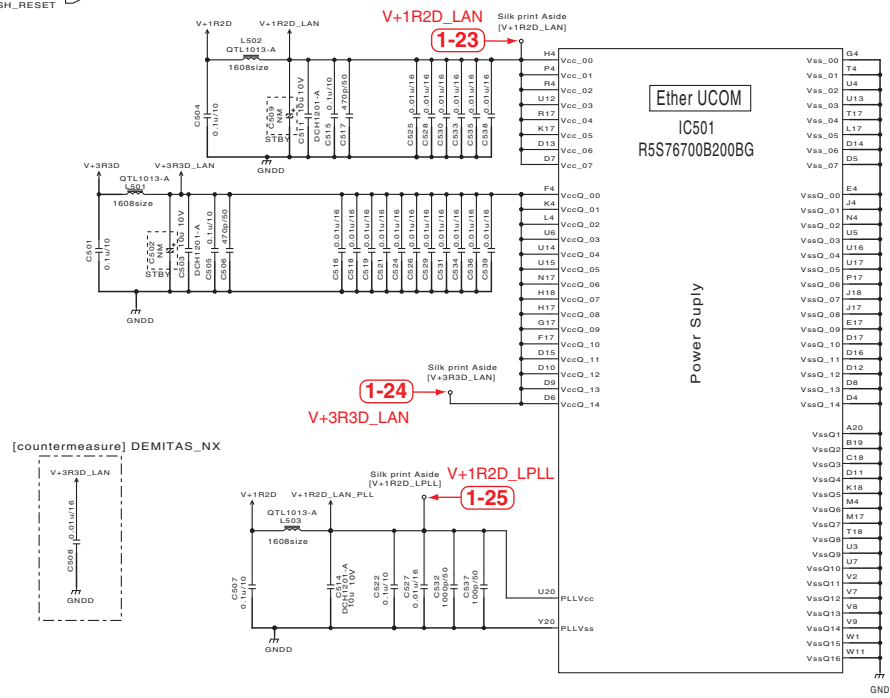


D

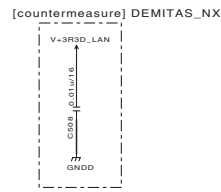
G 1/21, 10/21, 12/21

From Main CPU 1-4B:10:2C:12:14I SUB_SH_RESET

E



F



1 2 3 4

G9/21 MAIN ASSY (DWX3190)

LAN UCOM1

A

B

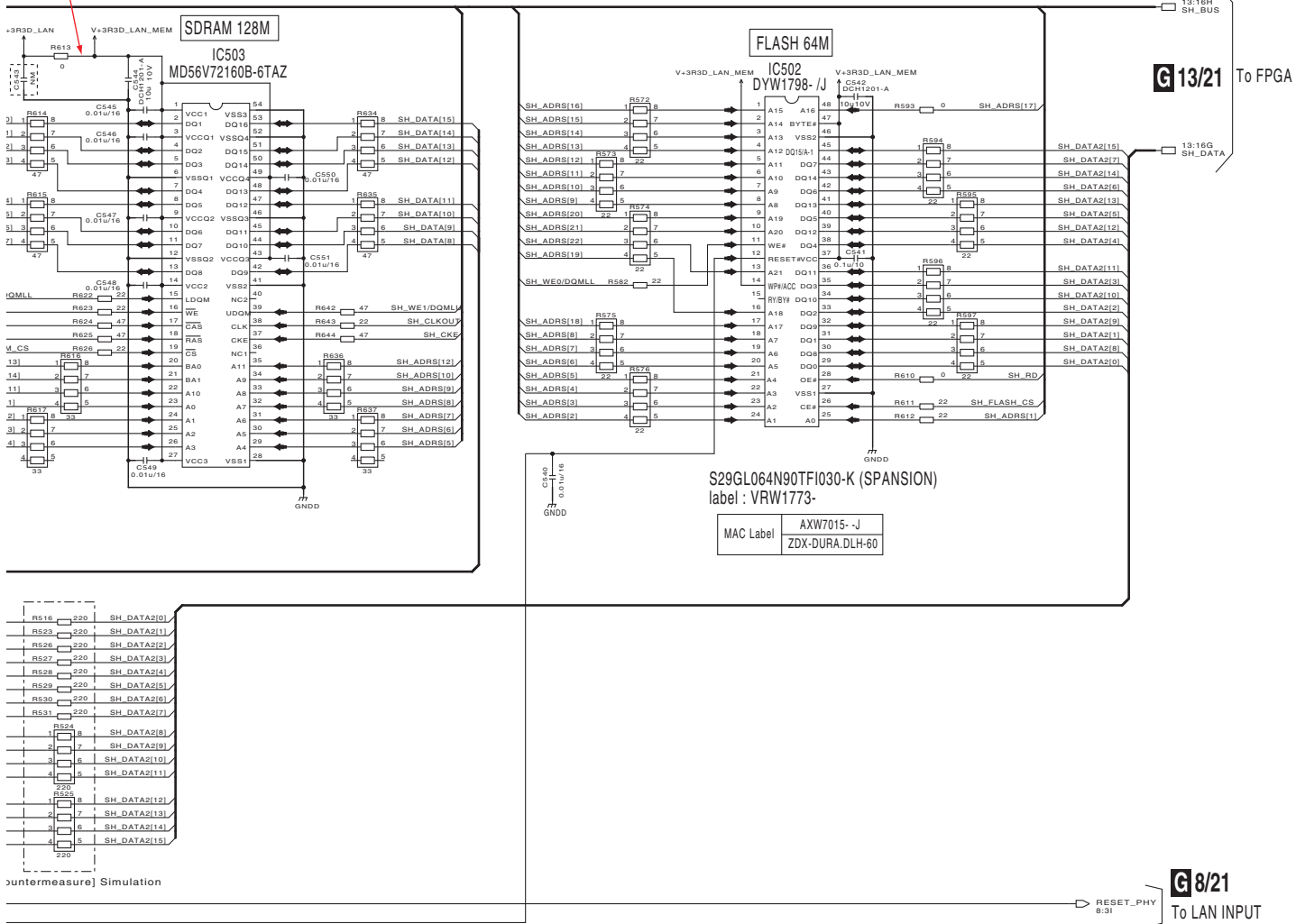
C

D

E

F

1-22 V+3R3D_LAN_MEM



G13/21 To FPGA

S29GL064N90TFI030-K (SPANSION)
label : VRW1773-

| | |
|-----------|-----------------|
| MAC Label | AXW7015-J |
| | ZDX-DURA.DLH-60 |

| | | |
|------|-----|--------------|
| R516 | 220 | SH_DATA2[0] |
| R523 | 220 | SH_DATA2[1] |
| R526 | 220 | SH_DATA2[2] |
| R527 | 220 | SH_DATA2[3] |
| R528 | 220 | SH_DATA2[4] |
| R529 | 220 | SH_DATA2[5] |
| R530 | 220 | SH_DATA2[6] |
| R531 | 220 | SH_DATA2[7] |
| R524 | 8 | SH_DATA2[8] |
| 1 | 7 | SH_DATA2[9] |
| 3 | 8 | SH_DATA2[10] |
| 4 | 5 | SH_DATA2[11] |
| 13 | 20 | SH_DATA2[12] |
| 2 | 7 | SH_DATA2[13] |
| 3 | 6 | SH_DATA2[14] |
| 4 | 5 | SH_DATA2[15] |

untermeasure] Simulation

G8/21
RESET_PHY 8:31
To LAN INPUT

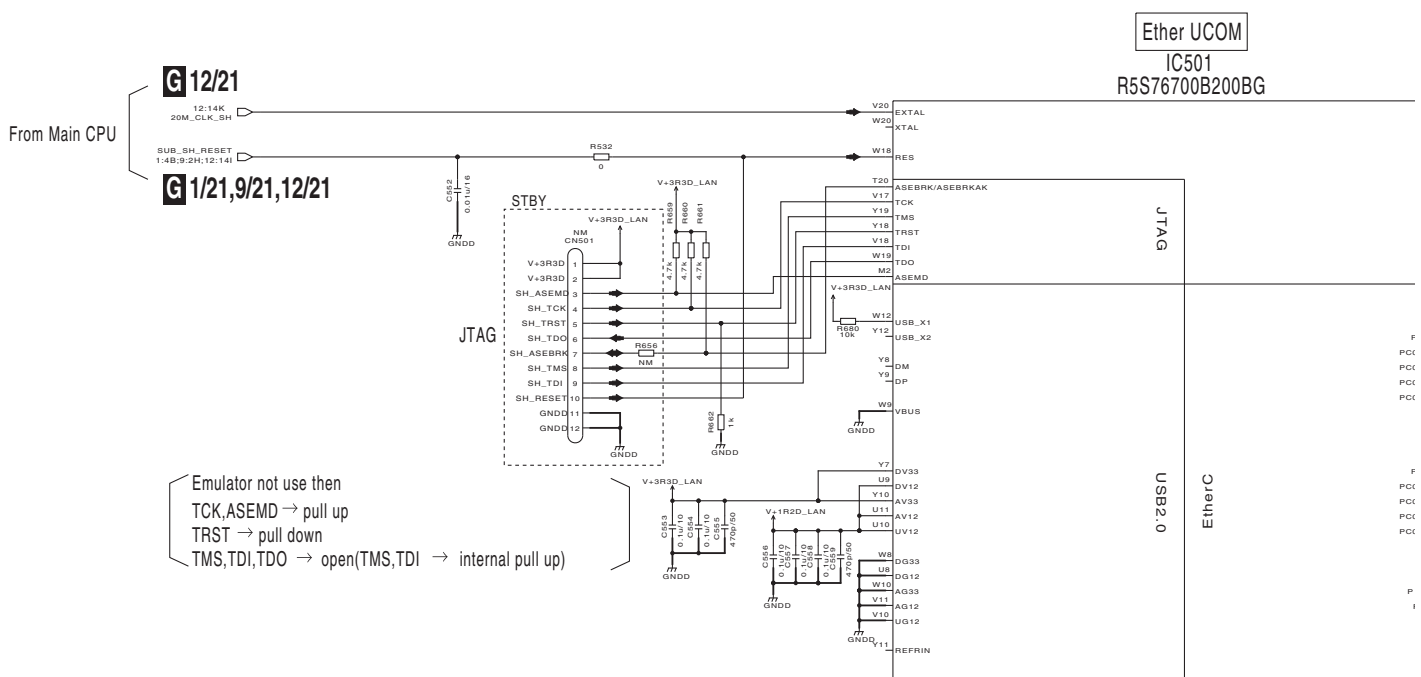
- NOTES
- is STBY
 - JMM
 - RS1/16S****J
 - RS1/10S****J
 - RN RS1/16S****J
 - RS1/10S****J
 - (D) RS1/16S****D
 - RS1/10S****D
 - (F) RS1/16S****F
 - RS1/10S****F
 - 1/8W RS1/16S****J
 - 1/4W RS1/4S****J
 - 2W RS2****J
 - RAB4CO****J
 - CKSRVB****
 - CKSRV****
 - CH CCSRCH****
 - CCS8CH****
 - CCS9CH****
 - CEVW****
 - HA CEHVAV****
 - NP CEVWNP****

□ : Waveform measuring point

10.22 MAIN ASSY (10/21)

1 2 3 4

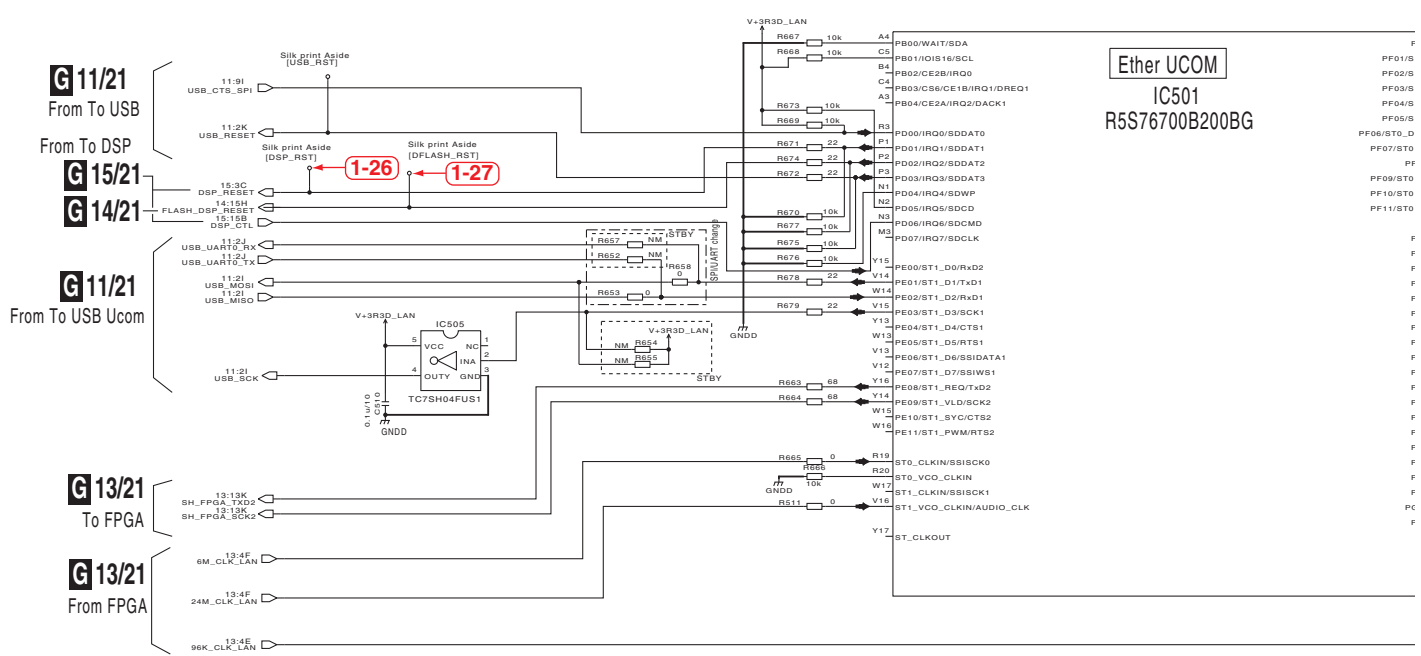
A



B

C

D



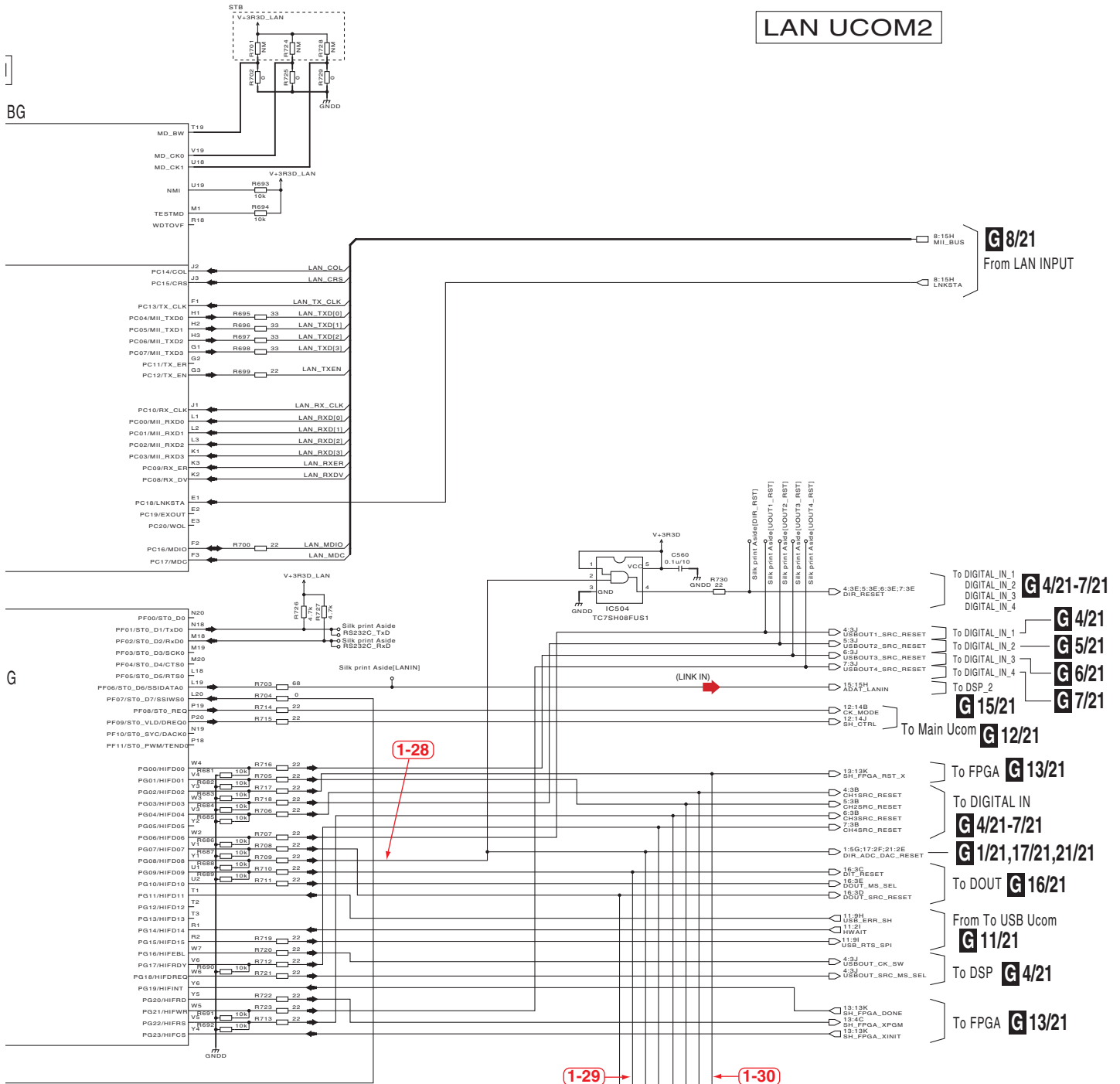
E

F

1 2 3 4

G10/21 MAIN ASSY (DWX3190)

LAN UCOM2



- NOTES**
- 1. NM 1 is STBY
 - RS1/16S****J
 - RS1/16S****J
 - RS1/16S****J
 - RS1/16S****D
 - RS1/16S****D
 - RS1/16S****F
 - RS1/16S****F
 - RS1/8S****J
 - RS1/4S****J
 - RS2****J
 - RAB4C0****J
 - CKSRVB****
 - CKSRVB****
 - CH- CCSRCH****
 - CCSCH****
 - CCSCH****
 - CEVW****
 - CEVW****
 - NP- CEVWNP****

1-28

1-29

1-30

(LINK IN) : LINK AUDIO INPUT

□ : Waveform measuring point

G 8/21
From LAN INPUT

G 4/21-7/21
To DIGITAL_IN_1
DIGITAL_IN_2
DIGITAL_IN_3
DIGITAL_IN_4

G 4/21
To DIGITAL_IN_1
G 5/21
To DIGITAL_IN_2
G 6/21
To DIGITAL_IN_3
G 7/21
To DIGITAL_IN_4

To DSP 2

G 15/21
To Main Ucom

G 12/21

To FPGA G 13/21

To DIGITAL IN

G 4/21-7/21

G 1/21,17/21,21/21

To DOUT G 16/21

From To USB Ucom

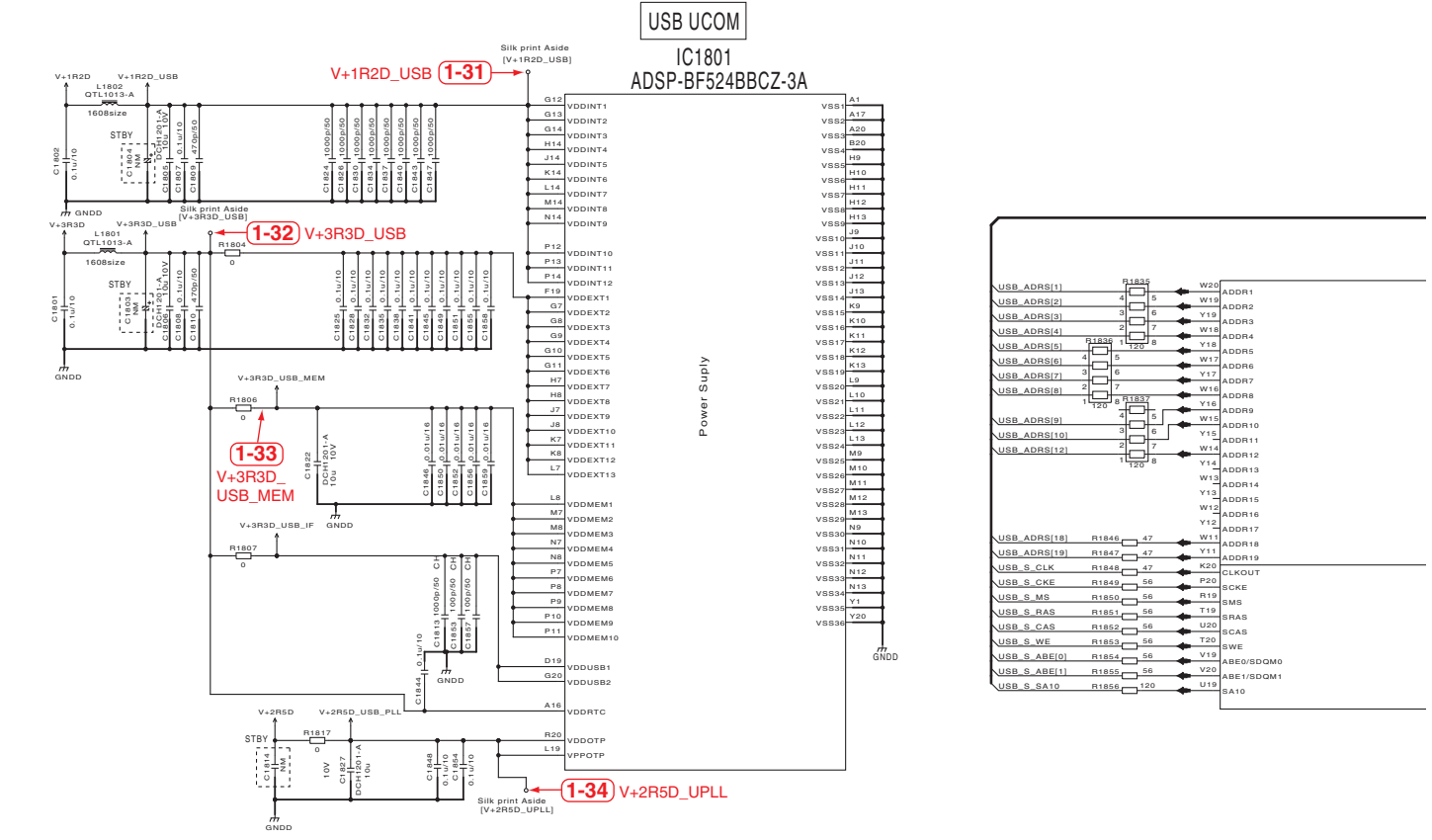
G 11/21

To DSP G 4/21

To FPGA G 13/21

10.23 MAIN ASSY (11/21)

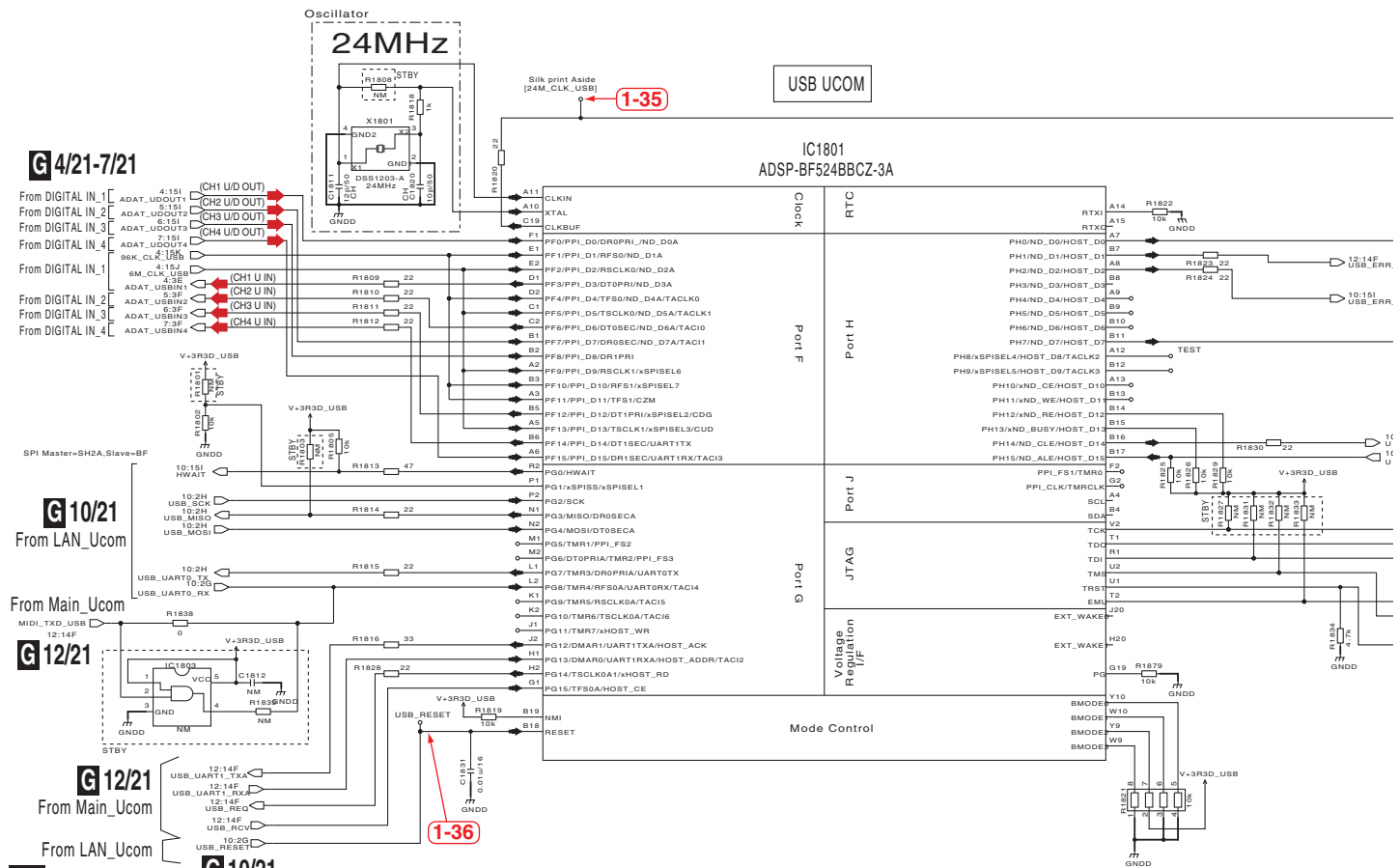
A



B

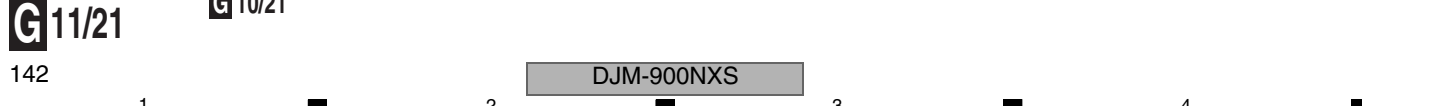
C

D



E

F



10.24 MAIN ASSY (12/21)

G12/21 MAIN ASSY (DWX3190)

MAIN CPU

○ : Waveform measuring point

NOTES

| | |
|--------------|--------------|
| 1-JUM | is STBY |
| RS1/16S****J | RS1/16S****J |
| RS1/10S****J | RS1/10S****J |
| RS1/16S****D | RS1/16S****D |
| RS1/10S****D | RS1/10S****D |
| RS1/16S****F | RS1/16S****F |
| RS1/10S****F | RS1/10S****F |
| RS1/16S****J | RS1/16S****J |
| RS1/10S****J | RS1/10S****J |
| RS2****J | RS2****J |
| RAB4CQ****J | RAB4CQ****J |
| CKSBVB**** | CKSBVB**** |
| CKSBYB**** | CKSBYB**** |
| CCSRCH**** | CCSRCH**** |
| CCSQCH**** | CCSQCH**** |
| CEVW**** | CEVW**** |
| CEHVAW**** | CEHVAW**** |
| CEVWNP**** | CEVWNP**** |

G1/21

From BOARD IF



G16/21

From To DIGITAL OUT



G2/21

From POWER IF



G17/21,21/21

To OUTPUT IF Block HP AMP Block



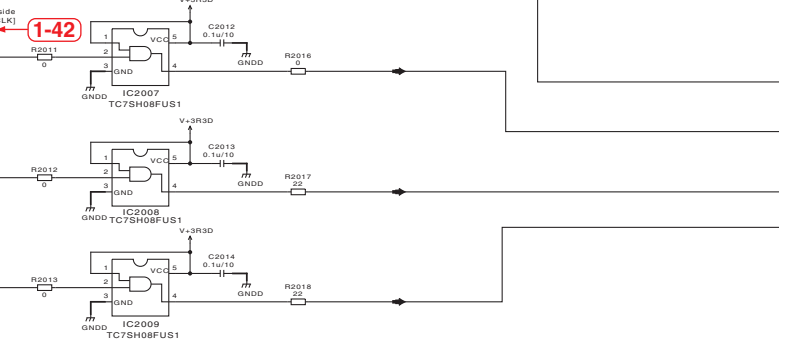
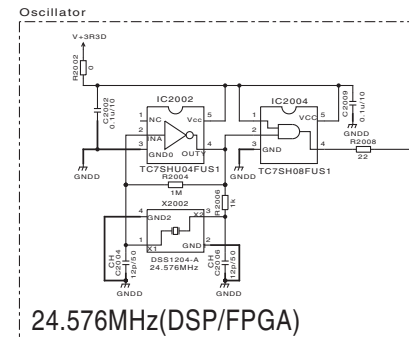
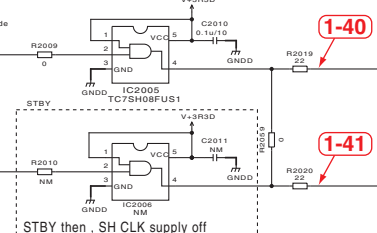
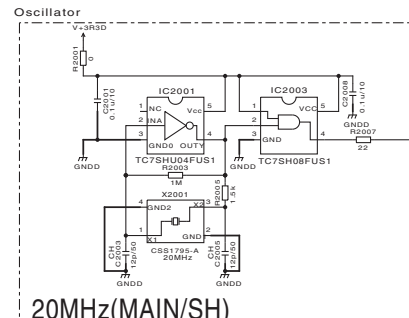
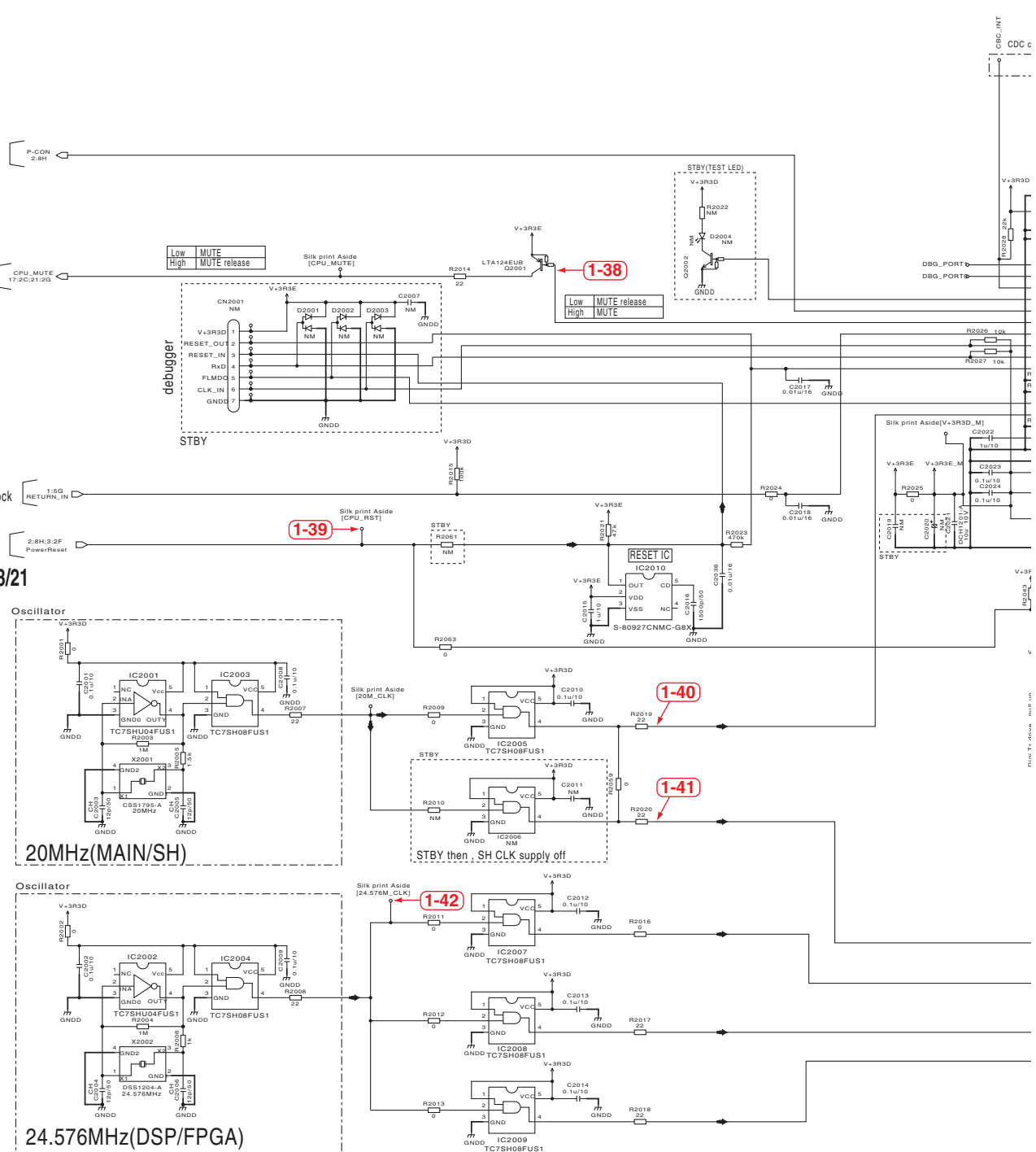
G1/21

From BOARD IF Block



G2/21,3/21

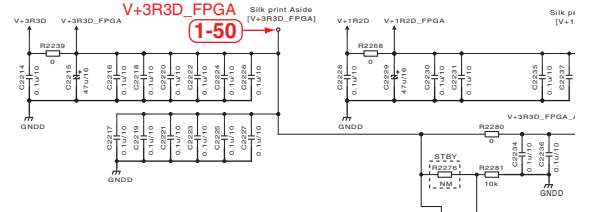
From POWER_IF POWER



10.25 MAIN ASSY (13/21)

1 2 3 4

A



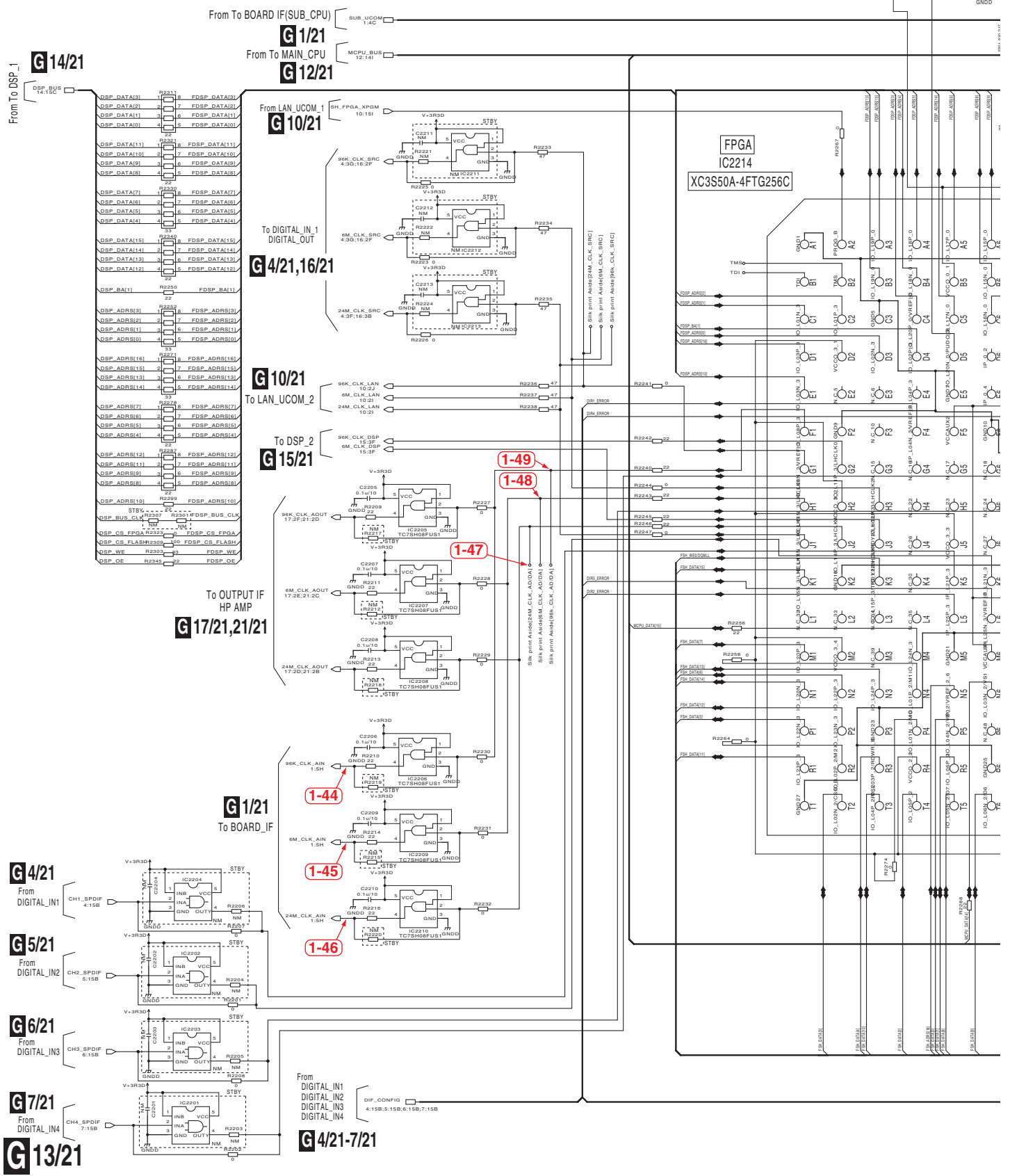
B

C

D

E

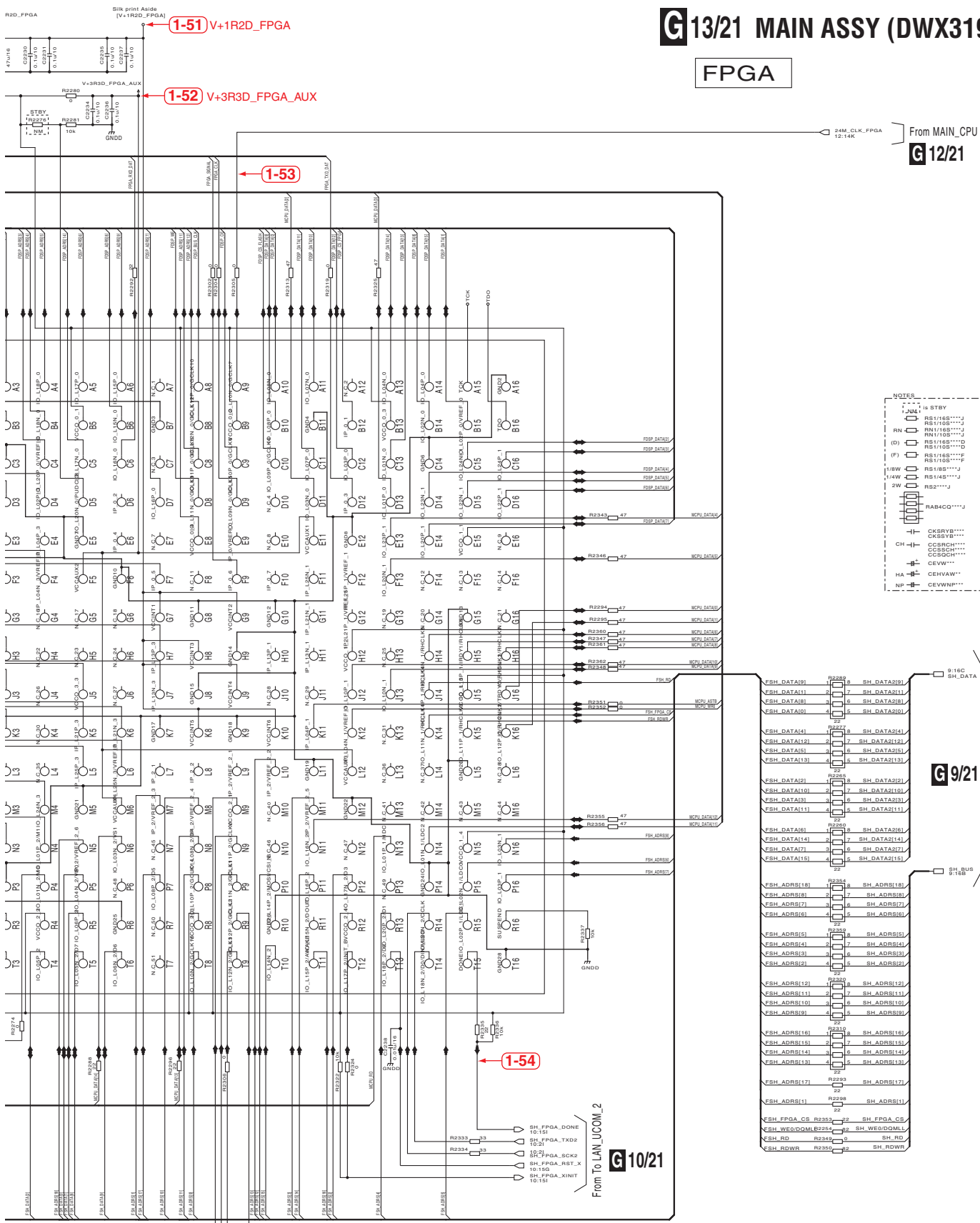
F



1 2 3 4

G13/21 MAIN ASSY (DWX3190)

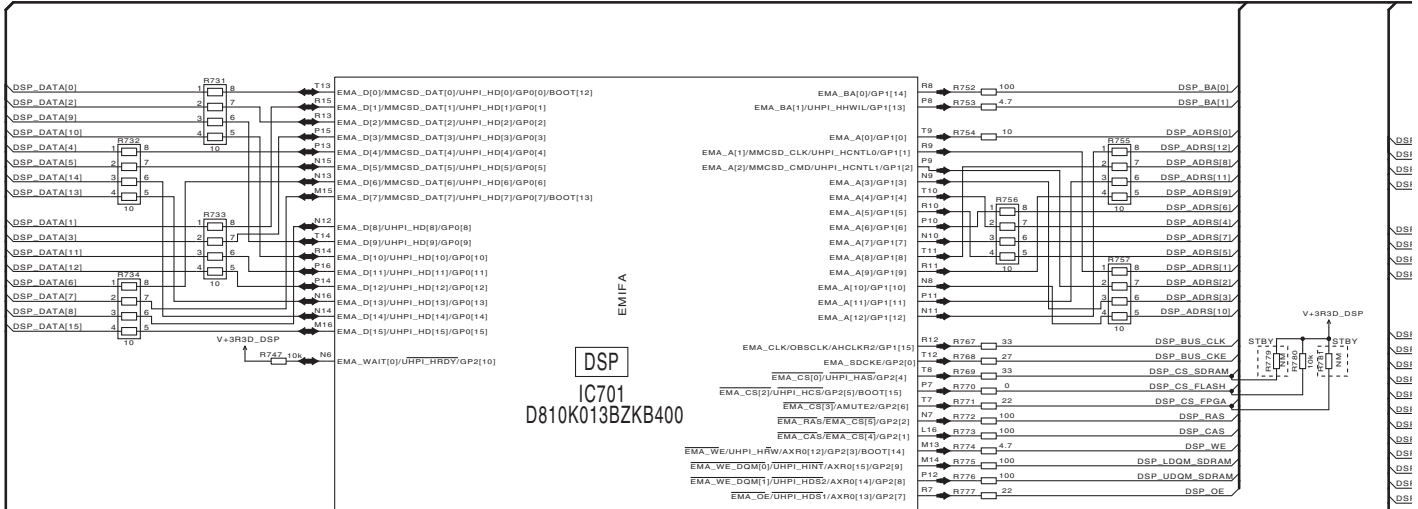
FPGA



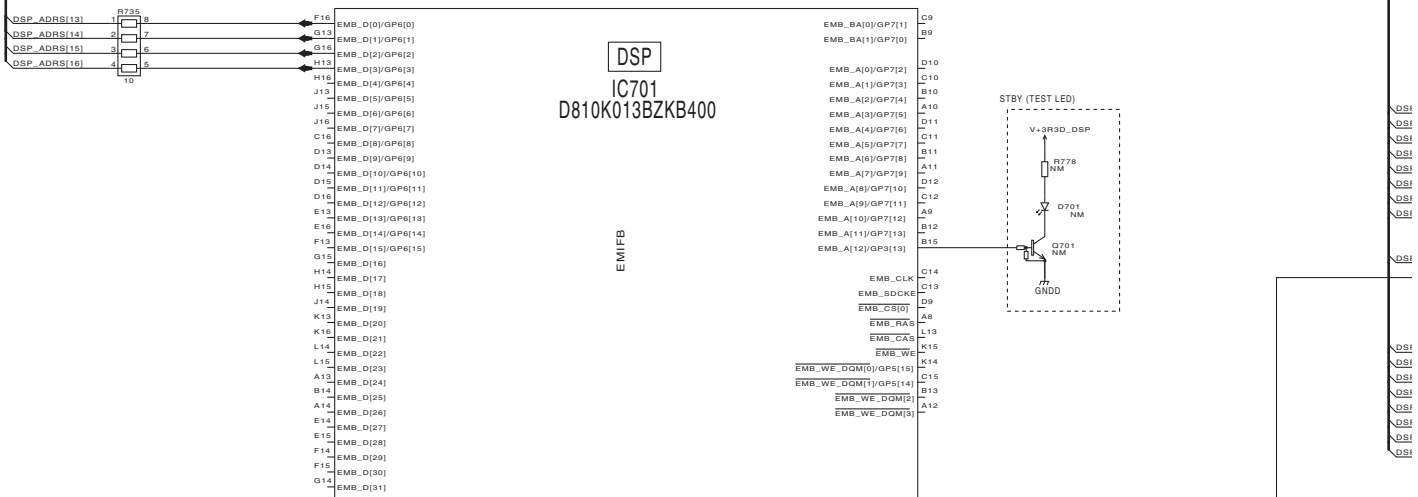
○ : Waveform measuring point

10.26 MAIN ASSY (14/21)

A

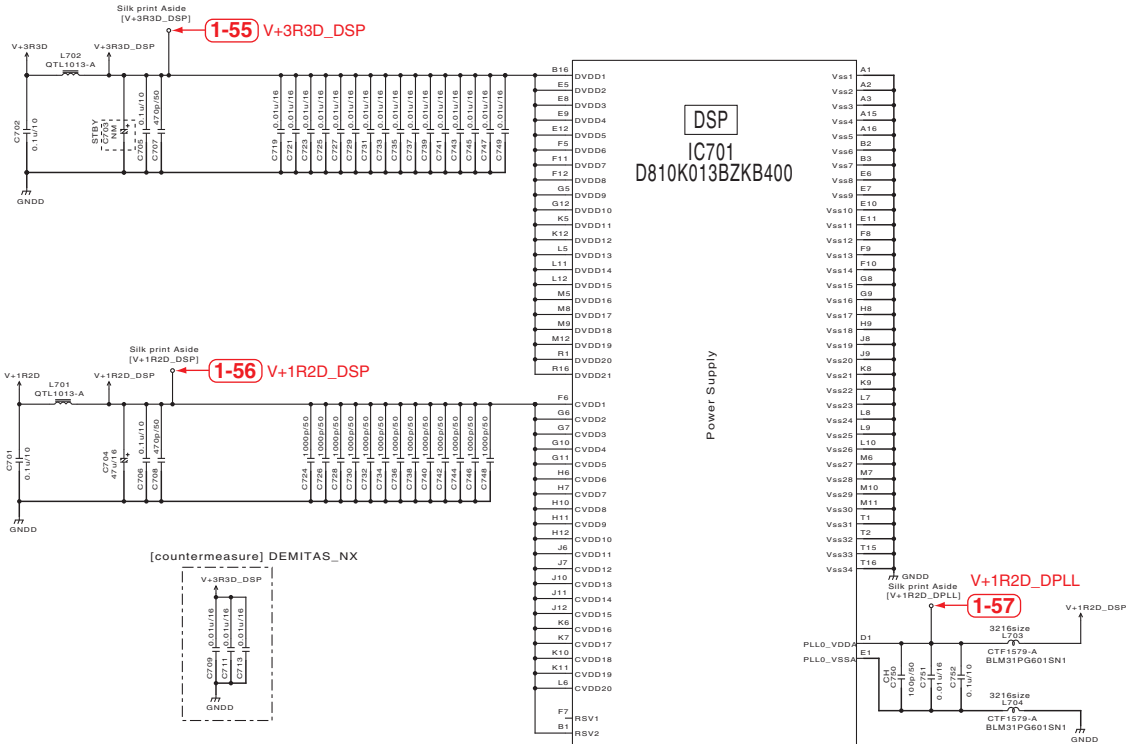


B



C

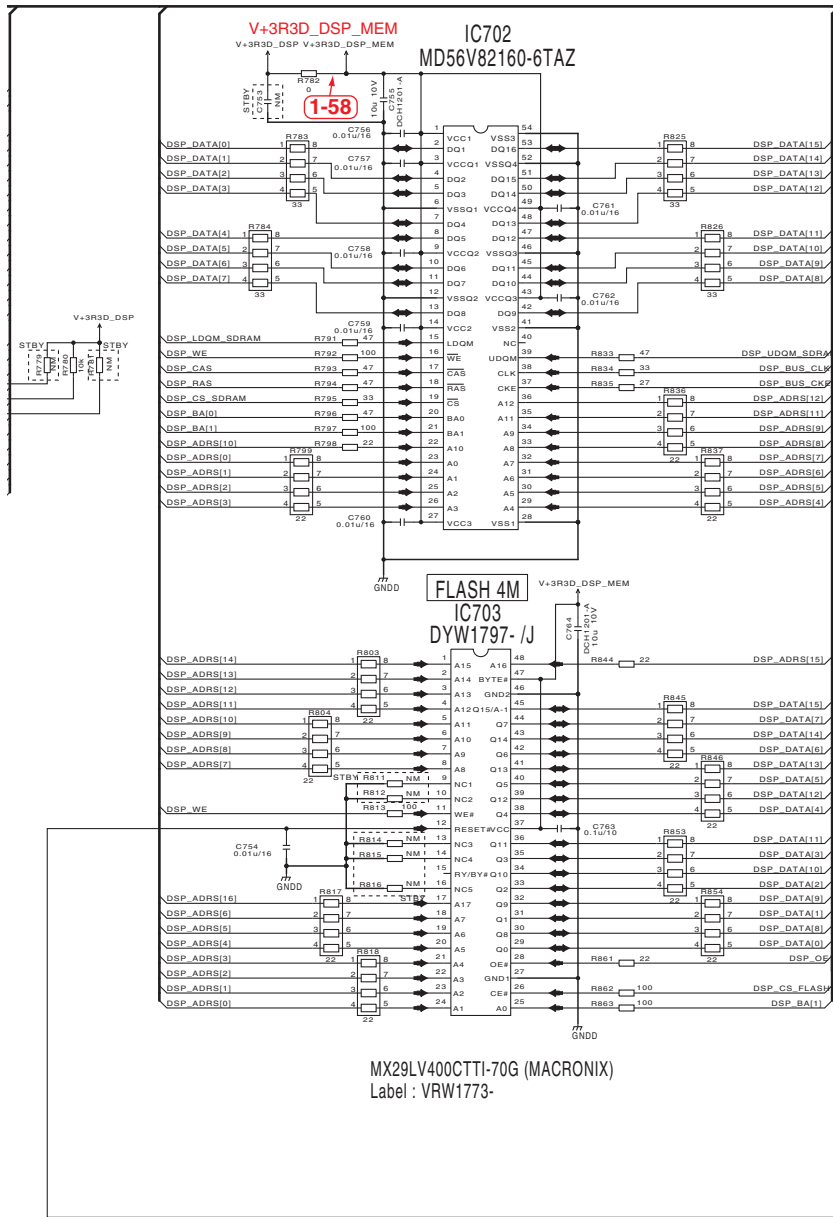
D



E

F

SDRAM 256M



MX29LV400CTT1-70G (MACRONIX)
Label : VRW1773-

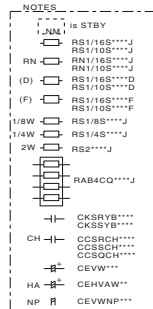
A
B
C
D
E
F

G 13/21
From To FPGA
DSP_BUS 13:1C

G 14/21 MAIN ASSY (DWX3190)

DSP_1

G 10/21
From LAN_UCOM_2
FLASH_DSP_RESET 10:2G

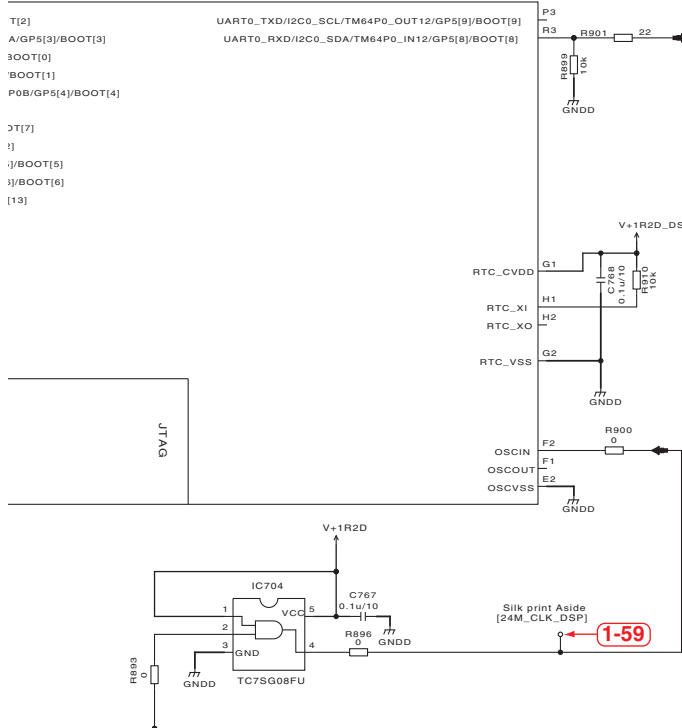


○ : Waveform measuring point

G15/21 MAIN ASSY (DWX3190)

DSP
IC701
D810K013BZKB400

DSP_2

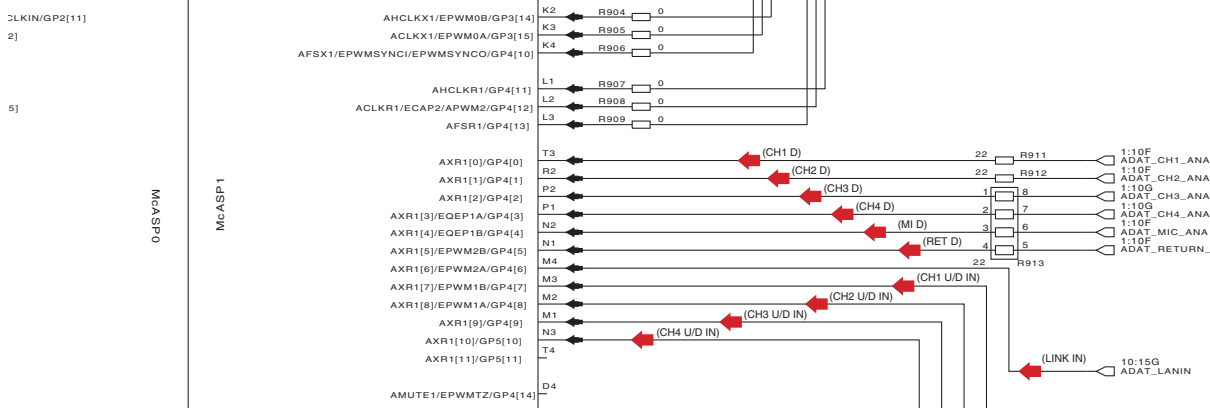


- (CH1 D) : CH1 Digital Signal (from INPUT ASSY)
- (CH2 D) : CH2 Digital Signal (from INPUT ASSY)
- (CH3 D) : CH3 Digital Signal (from INPUT ASSY)
- (CH4 D) : CH4 Digital Signal (from INPUT ASSY)
- (MI D) : MIC Digital Signal (from INPUT ASSY)
- (RET D) : RETURN Digital Signal (from INPUT ASSY)
- (LINK IN) : LINK AUDIO INPUT
- (CH1 U/D IN) : CH1 USB/DIGITAL Input Signal
- (CH2 U/D IN) : CH2 USB/DIGITAL Input Signal
- (CH3 U/D IN) : CH3 USB/DIGITAL Input Signal
- (CH4 U/D IN) : CH4 USB/DIGITAL Input Signal

NOTES

| | |
|------|--------------|
| 1 | 1s STBY |
| 1 | RS1/16S****J |
| 1 | RS1/10S****J |
| RN | RN1/16S****J |
| | RN1/10S****J |
| (D) | RS1/16S****D |
| | RS1/10S****D |
| (F) | RS1/16S****F |
| | RS1/10S****F |
| 1/8W | RS1/8S****J |
| 1/4W | RS1/4S****J |
| 2W | RS2****J |
| | RAB4C****J |
| | CKSRVB**** |
| | CKSSYB**** |
| CH | CCSRCH**** |
| | CCSSCH**** |
| | CCSCH**** |
| | CEVW**** |
| HA | CEVAV**** |
| NP | CEVWN**** |

DSP
IC701
D810K013BZKB400



G1/21
From BOARD IF Block

G10/21
From LAN_UCOM_2

From DIGITAL_IN_1
From DIGITAL_IN_2
From DIGITAL_IN_3
From DIGITAL_IN_4

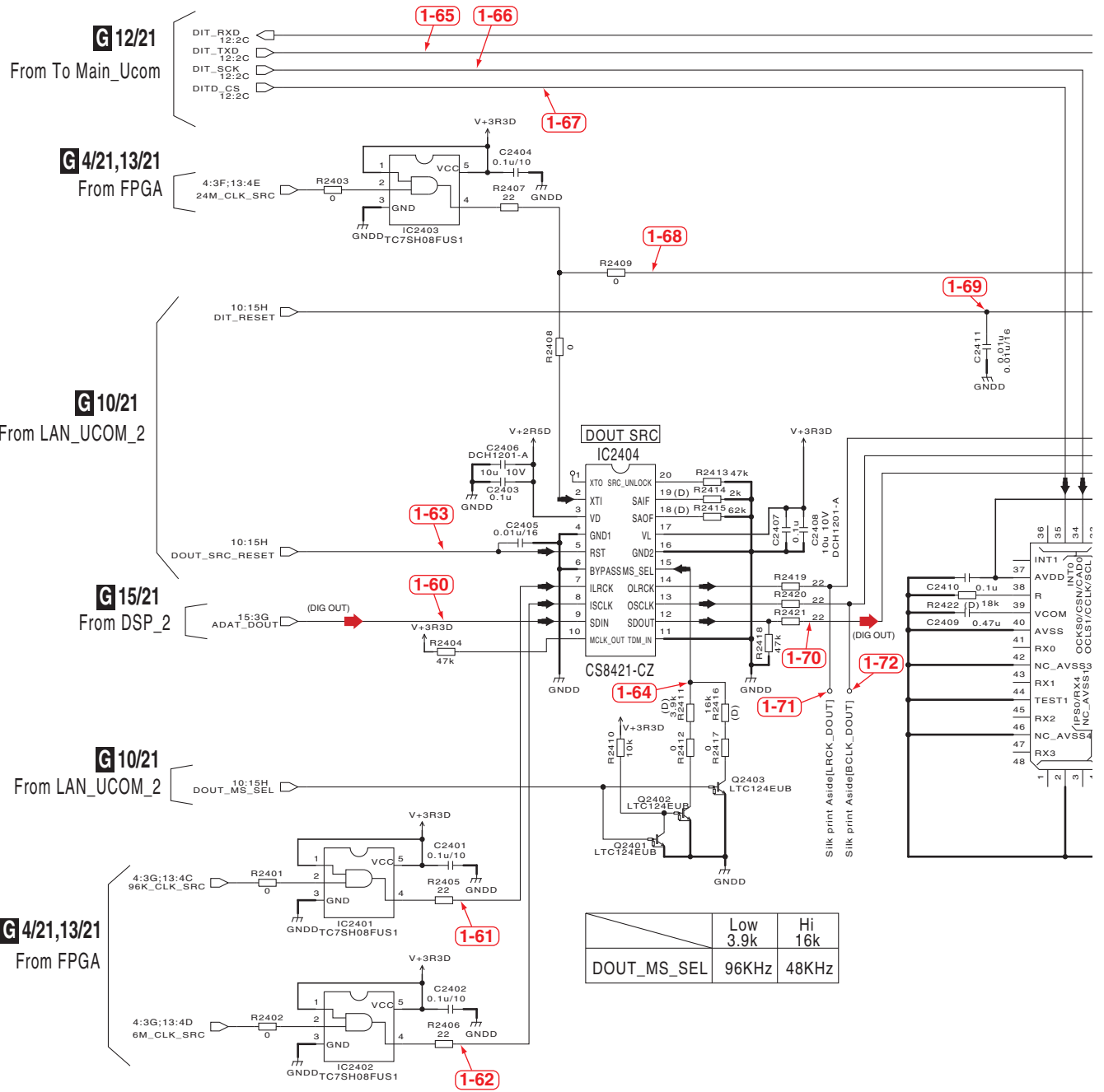
G4/21-7/21

DSP
IC701
D810K013BZKB400



○ : Waveform measuring point

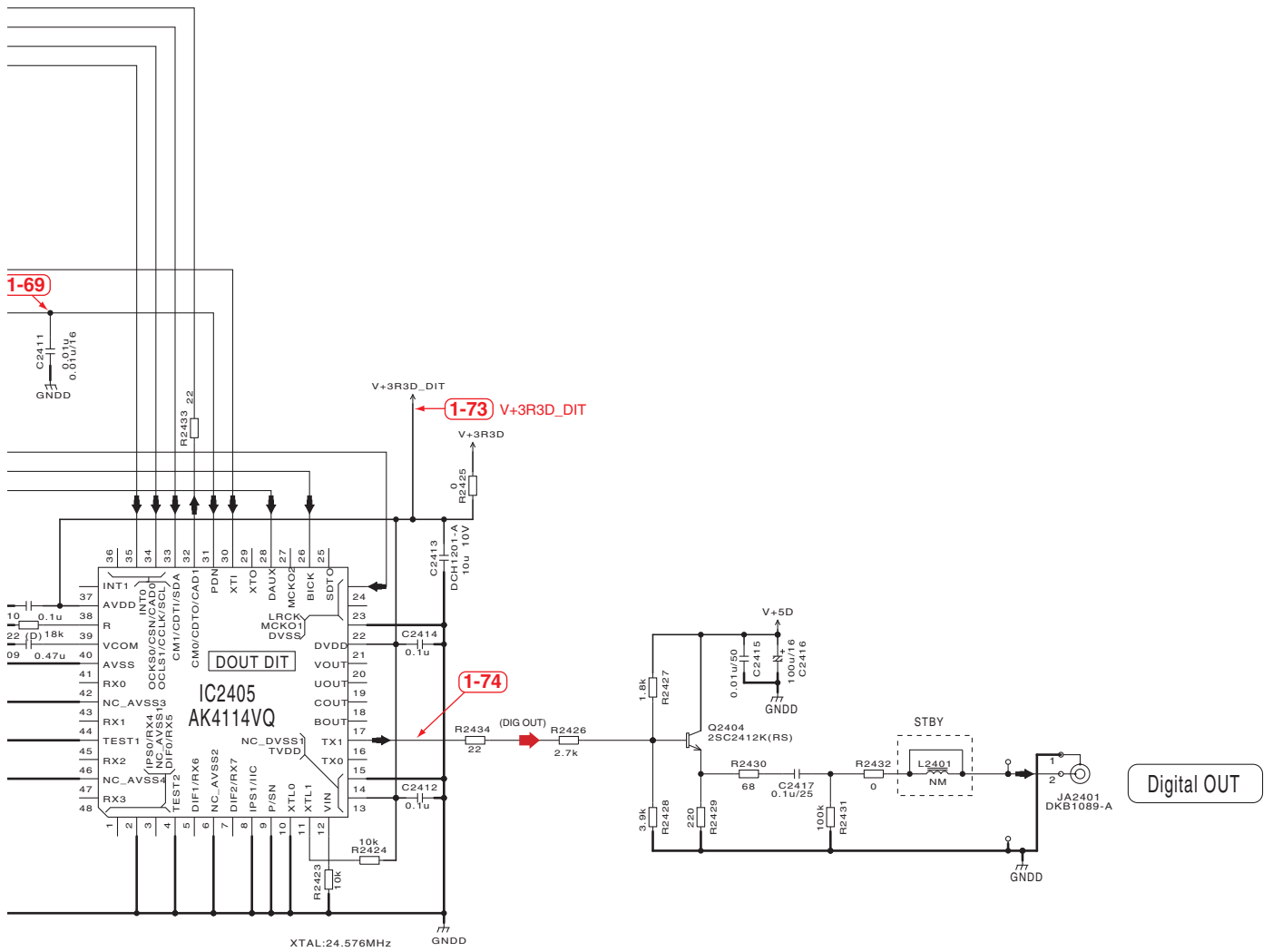
10.28 MAIN ASSY (16/21)



| | Low | Hi |
|-------------|-------|-------|
| DOUT_MS_SEL | 96KHz | 48KHz |

G16/21 MAIN ASSY (DWX3190)

DIGITAL OUT



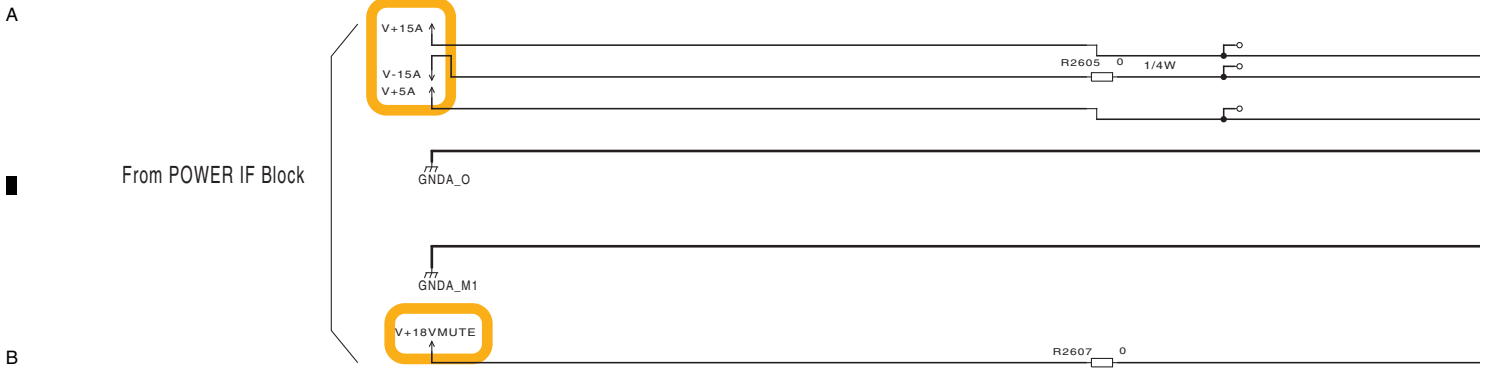
(DIG OUT) → : DIGITAL OUT Signal
 ○ : Waveform measuring point

NOTES

| | |
|----------|--------------|
| — — | is STBY |
| — — | RS1/16S****J |
| — — | RS1/10S****J |
| — — | RN1/16S****J |
| — — | RN1/10S****J |
| (D) — — | RS1/16S****D |
| (D) — — | RS1/10S****D |
| (F) — — | RS1/16S****F |
| (F) — — | RS1/10S****F |
| 1/8W — — | RS1/8S****J |
| 1/4W — — | RS1/4S****J |
| 2W — — | RS2****J |
| — — | RAB4CQ****J |
| — — | CKSRYB**** |
| — — | CKSSYB**** |
| CH — — | CCSRCH**** |
| — — | CCSSCH**** |
| — — | CCSQCH**** |
| — — | CEVW**** |
| HA — — | CEHVAW** |
| NP — — | CEVWNP**** |

10.29 MAIN ASSY (17/21)

1 2 3 4



Digital ← → Analog

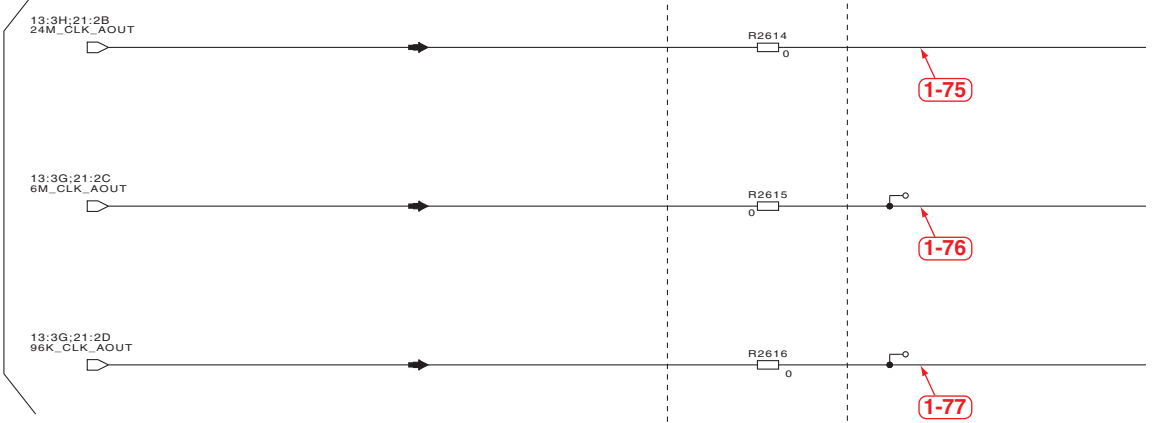
G 12/21,21/21
From MAIN CPU Block



- NOTES
- is STBY
 - JNM1
 - RS1/16S****J
 - RS1/10S****J
 - RN --- RN1/16S****J
 - RN1/10S****J
 - (D) --- RS1/16S****D
 - RS1/10S****D
 - (F) --- RS1/16S****F
 - RS1/10S****F
 - 1/8W --- RS1/8S****J
 - 1/4W --- RS1/4S****J
 - 2W --- RS2****J
 - RAB4CQ****J
 - CKSRYB****
 - CKSSYB****
 - CH --- CCSRCH****
 - CCSSCH****
 - CCSQCH****
 - CEVW****
 - HA --- CEHVAW****
 - NP --- CEVWNP****



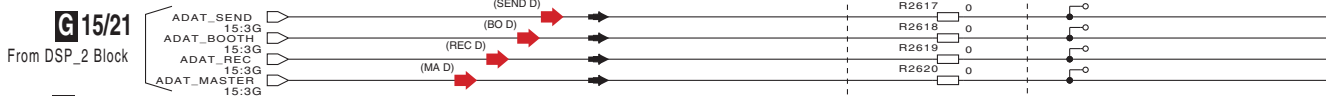
From FPGA Block
G 13/21,21/21



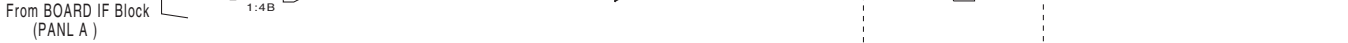
G 1/21,10/21,21/21



G 15/21



G 1/21



G 17/21

1 2 3 4

G17/21 MAIN ASSY (DWX3190)

OUTPUT IF

○ : Waveform measuring point

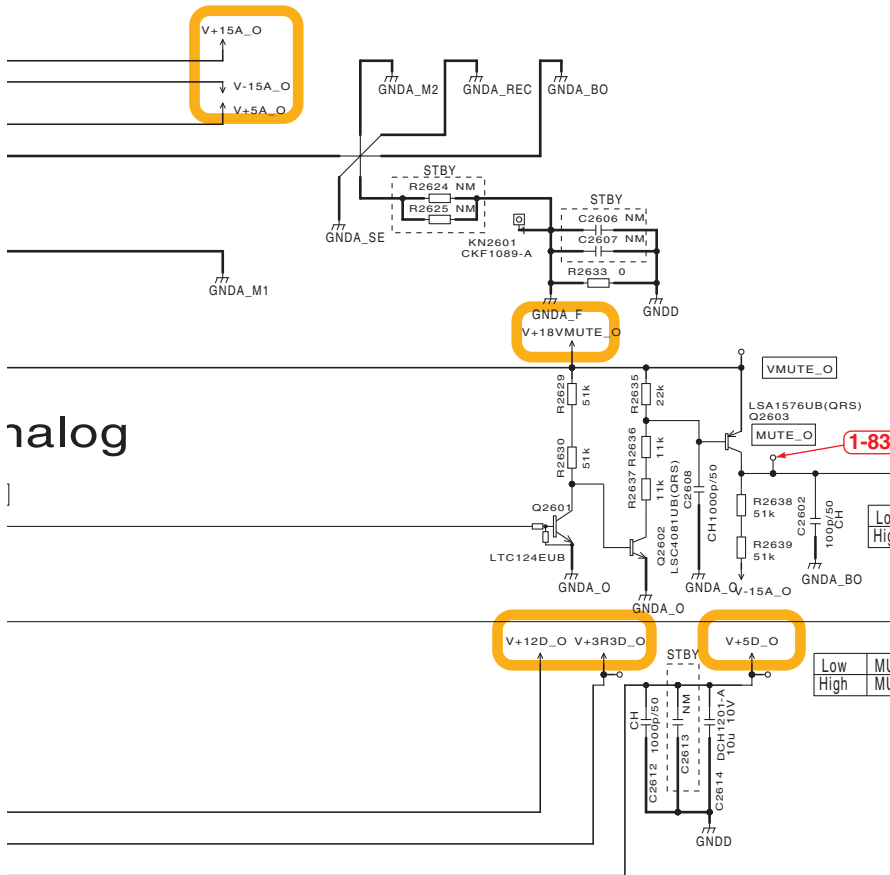
- (SEND D) → : MASTER OUT Digital Signal
- (BO D) → : BOOTH OUT Digital Signal
- (REC D) → : REC OUT Digital Signal
- (MA D) → : MASTER OUT Digital Signal

G 1/21,19/21,20/21

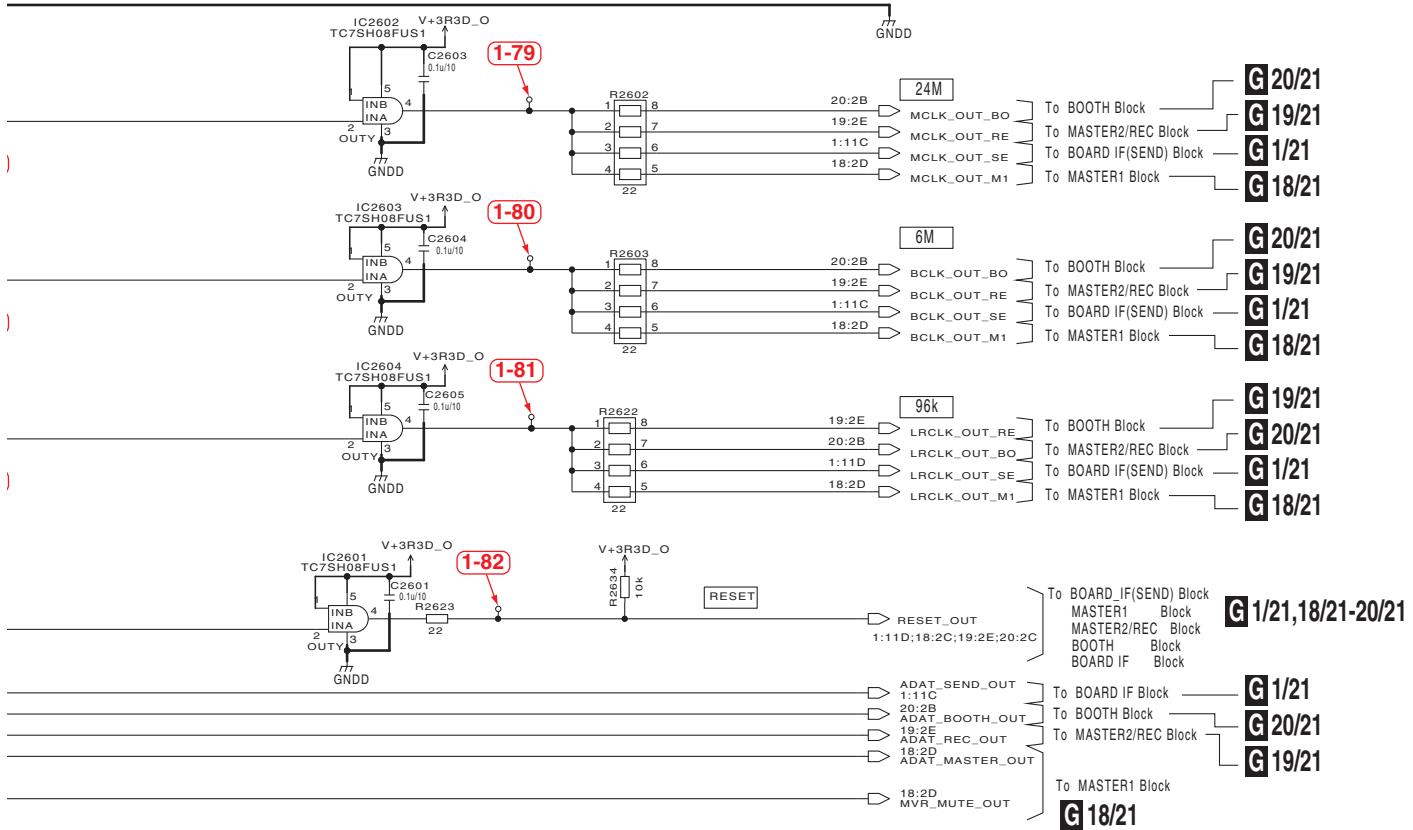
To MASTER1 Block
 MASTER2/REC Block
 BOOTH Block
 BOARD IF(SEND) Block

G 18/21

To MASTER1 Block

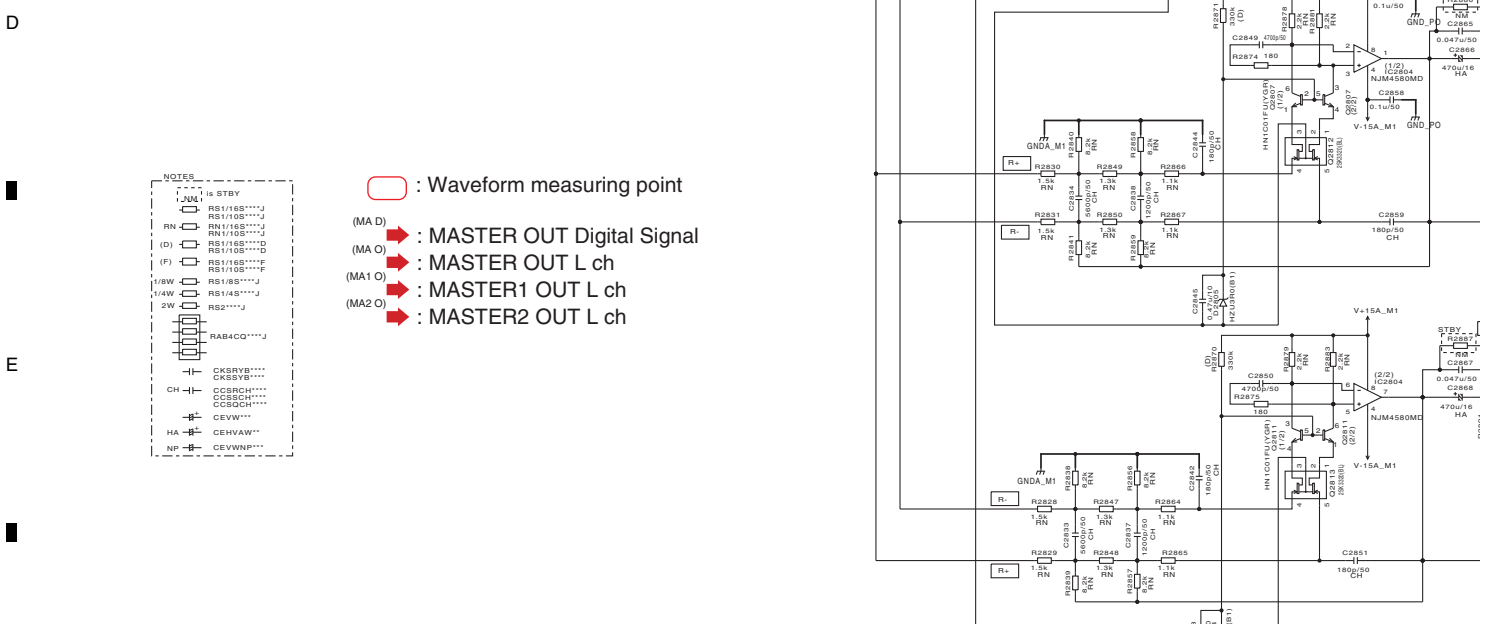
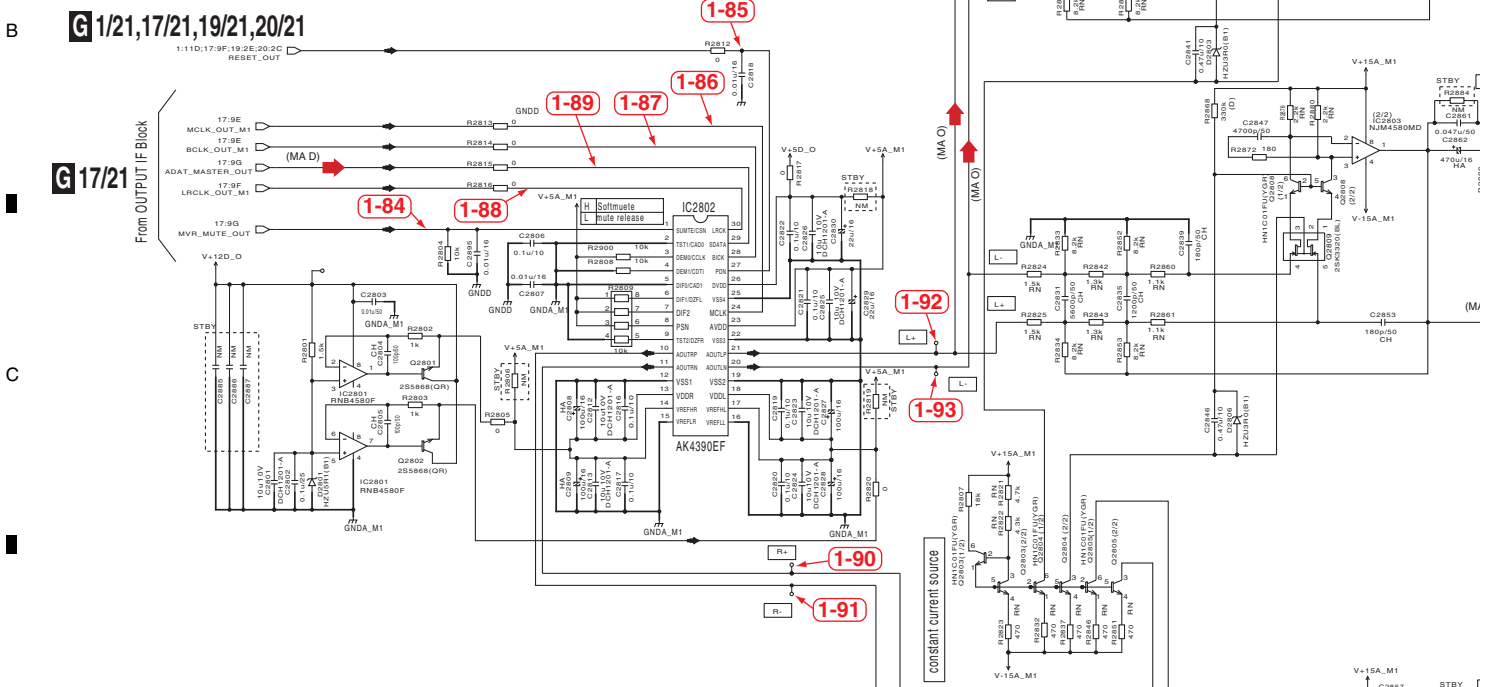


analog



10.30 MAIN ASSY (18/21)

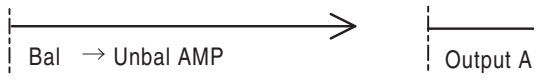
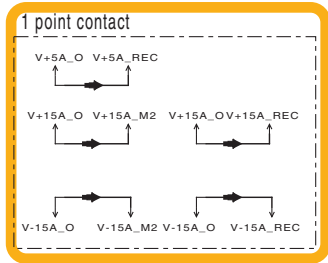
1 2 3 4



10.31 MAIN ASSY (19/21)

1 2 3 4

A



MASTER 2

B

From MASTER1 Block
G18/21

C

From OUTPUT IF Block
G1/21,17/21,20/21

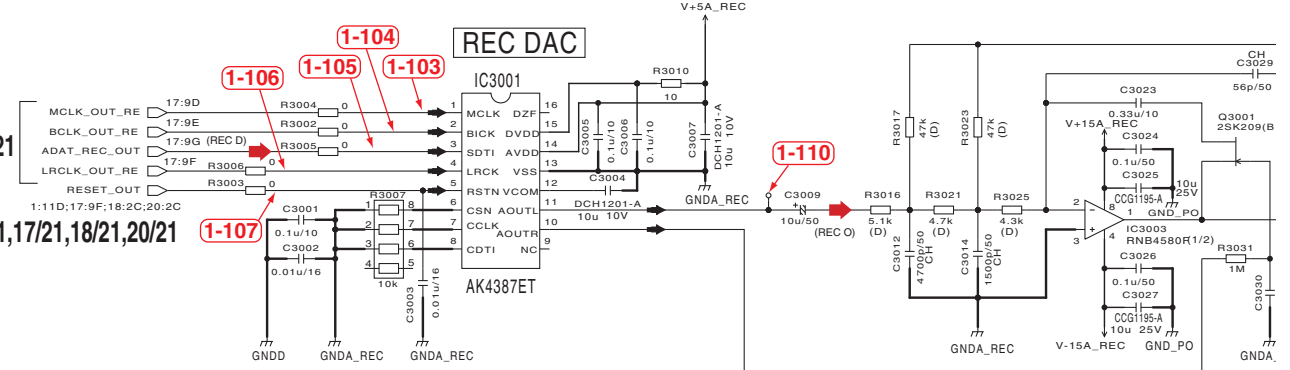
| | |
|------|--------------|
| Low | MUTE release |
| High | MUTE |

D

REC OUT

G17/21
G1/21,17/21,18/21,20/21

From OUTPUT IF Block



E

G1/21,17/21,20/21

| | |
|------|--------------|
| Low | MUTE release |
| High | MUTE |

F



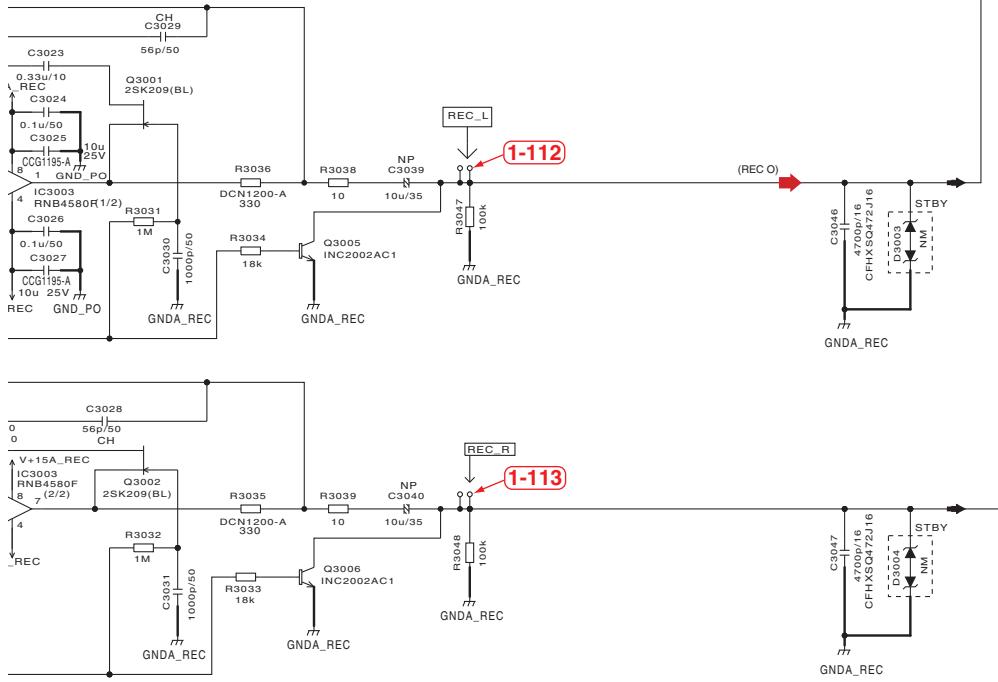
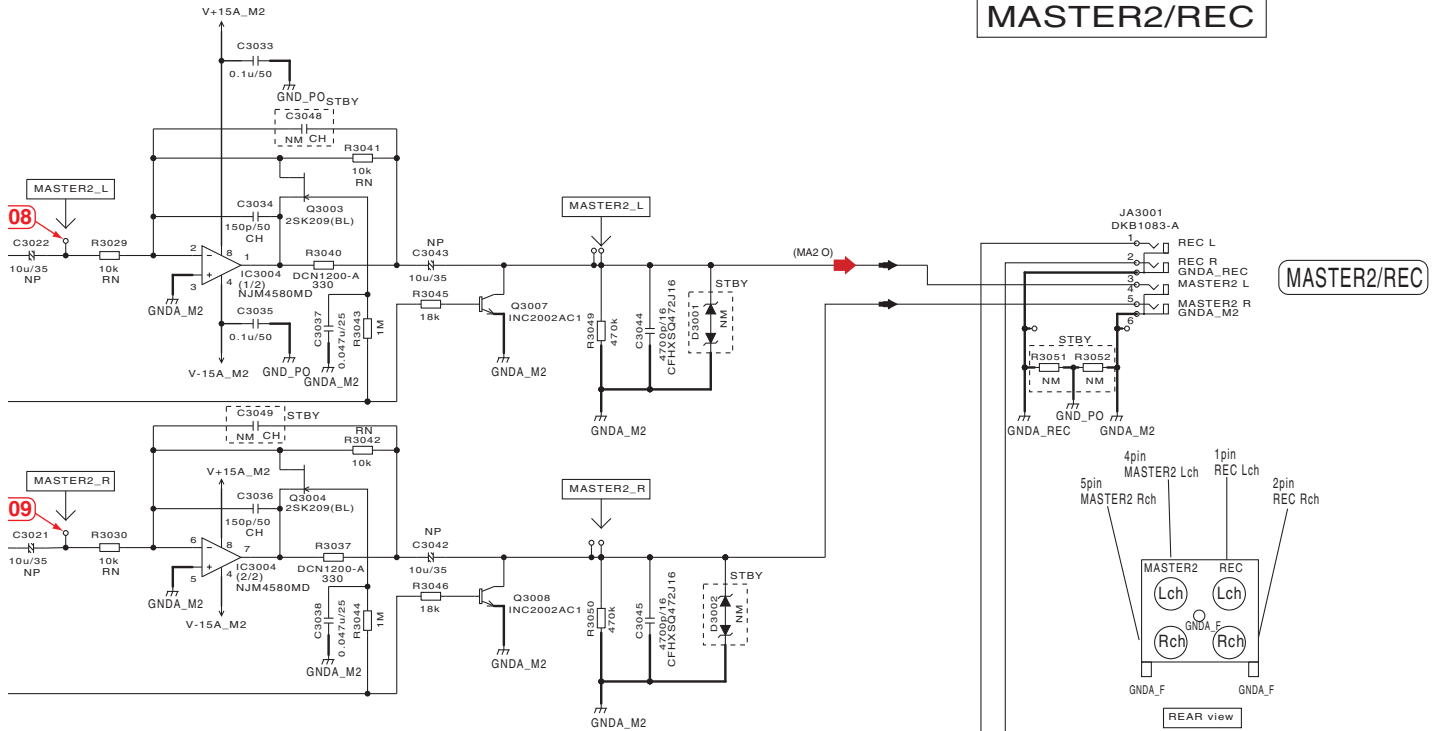
G19/21

1 2 3 4

G19/21 MAIN ASSY (DWX3190)

MASTER2/REC

Output AMP



- NOTES
- 1_NM1 is STBY
 - RS1/16S****J
 - RS1/10S****J
 - RN RN1/16S****J
 - RN1/10S****J
 - (D) RS1/16S****D
 - RS1/10S****D
 - (F) RS1/16S****F
 - RS1/10S****F
 - 1/8W RS1/8S****J
 - 1/4W RS1/4S****J
 - 2W RS2****J
 - RAB4CQ****J
 - CKSRYS****
 - CKSSYB****
 - CH CCSRCH****
 - CCSSCH****
 - CCSGCH****
 - CEVW****
 - HA CEHVAV****
 - NP CEVWNP****

- ◻ : Waveform measuring point
- (MA2 O) → : MASTER2 OUT L ch
- (REC D) → : REC OUT Digital Signal
- (REC O) → : REC OUT L ch

10.32 MAIN ASSY (20/21)

DAC

Noise Filter

Output AMP

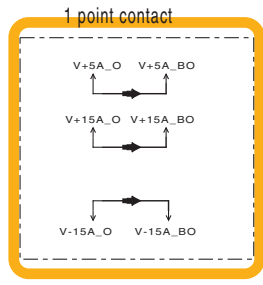
- 1-114
- 1-115
- 1-116
- 1-117
- 1-118

BOOTH DAC

AK4382AVT

G 17/21

G 1/21,17/21-19/21



- : Waveform measuring point
- ➔ (BO D) : BOOTH OUT Digital Signal
- ➔ (BO O) : BOOTH OUT L ch

From OUTPUT IF Block

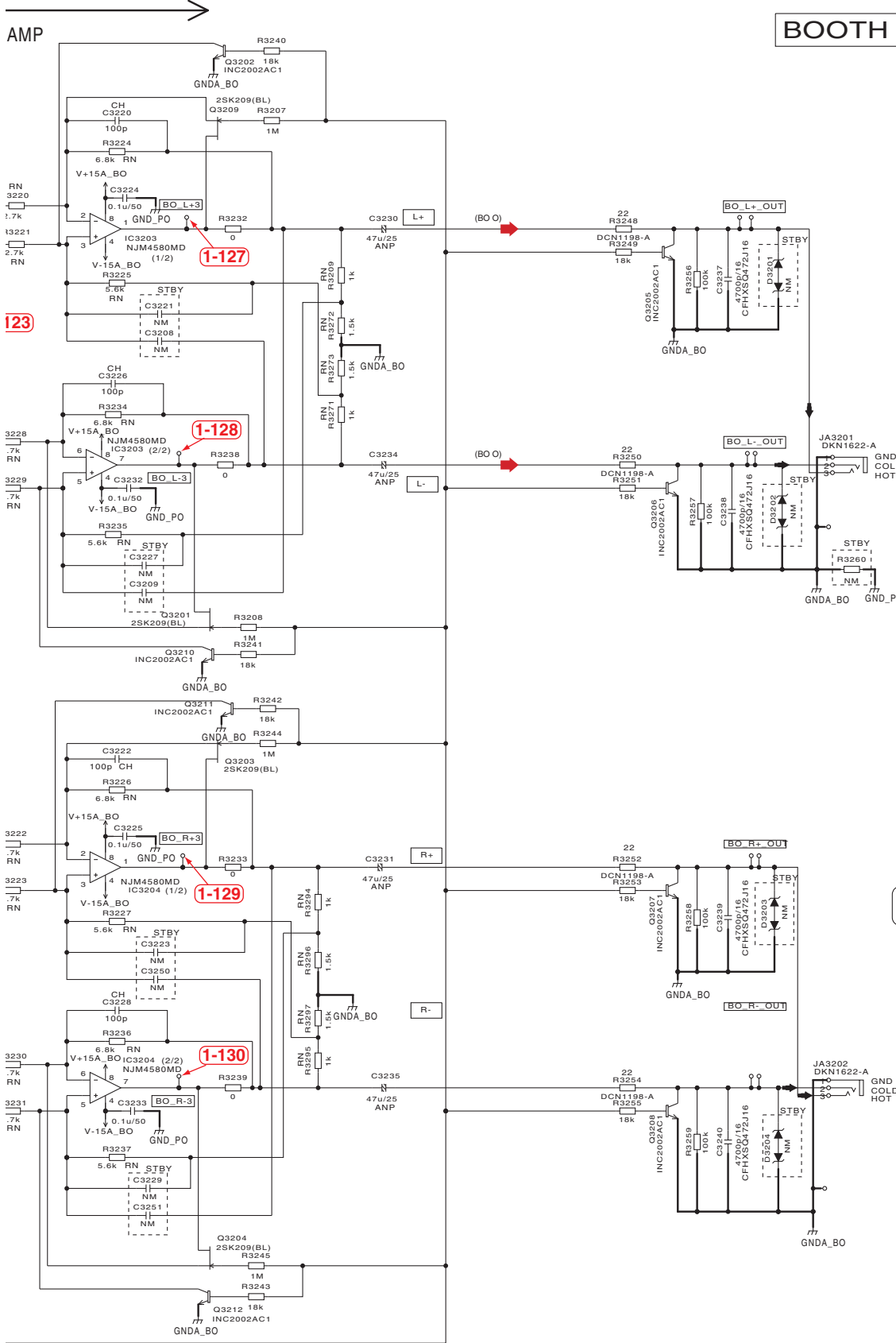
G 1/21,17/21,19/21

MUTE_OUT
1:11C;17:9B;19:2D;19:2H

| | |
|------|--------------|
| Low | MUTE release |
| High | MUTE |

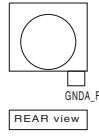
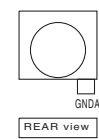
G20/21 MAIN ASSY (DWX3190)

BOOTH



BOOTH Lch

BOOTH Rch

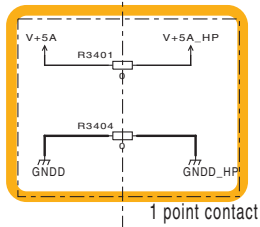


- NOTES
- is STBY
 - I-NM RS1/16S****J
 - RN RN1/10S****J
 - (D) RS1/10S****J
 - (F) RS1/16S****D
 - RS1/10S****D
 - RS1/16S****F
 - RS1/10S****F
 - 1/8W RS1/8S****J
 - 1/4W RS1/4S****J
 - 2W RS2****J
 - RAB4CQ****J
 - CKSRYB****
 - CKSSYB****
 - CCSRCH****
 - CCSSCH****
 - CCSQCH****
 - CEVW****
 - CEHVAW****
 - CEVWNP****

| | |
|------|--------------|
| Low | MUTE release |
| High | MUTE |

10.33 MAIN ASSY (21/21)

Digital ← → HP Block



DAC

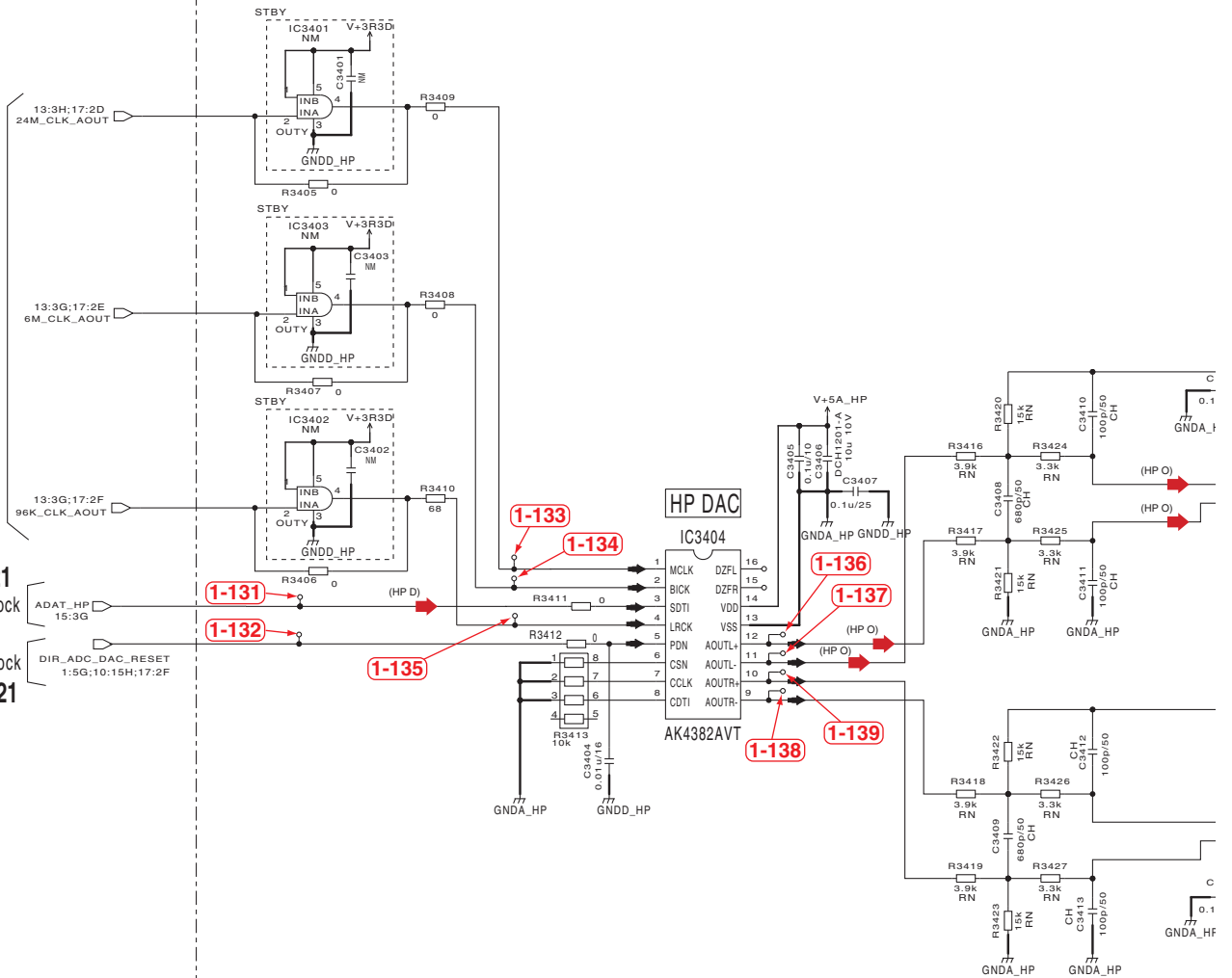
Noise Filter

G 13/21,17/21
From FPGA Block

G 15/21
From DSP_2 Block

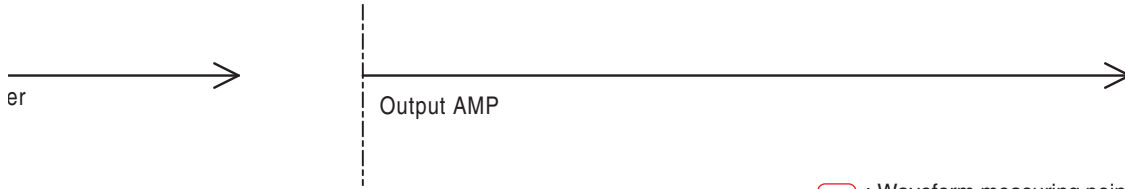
From LAN UCOM_2 Block
G 1/21,10/21,17/21

G 12/21,17/21
From MAIN CPU Block



G21/21 MAIN ASSY (DWX3190)

HP AMP



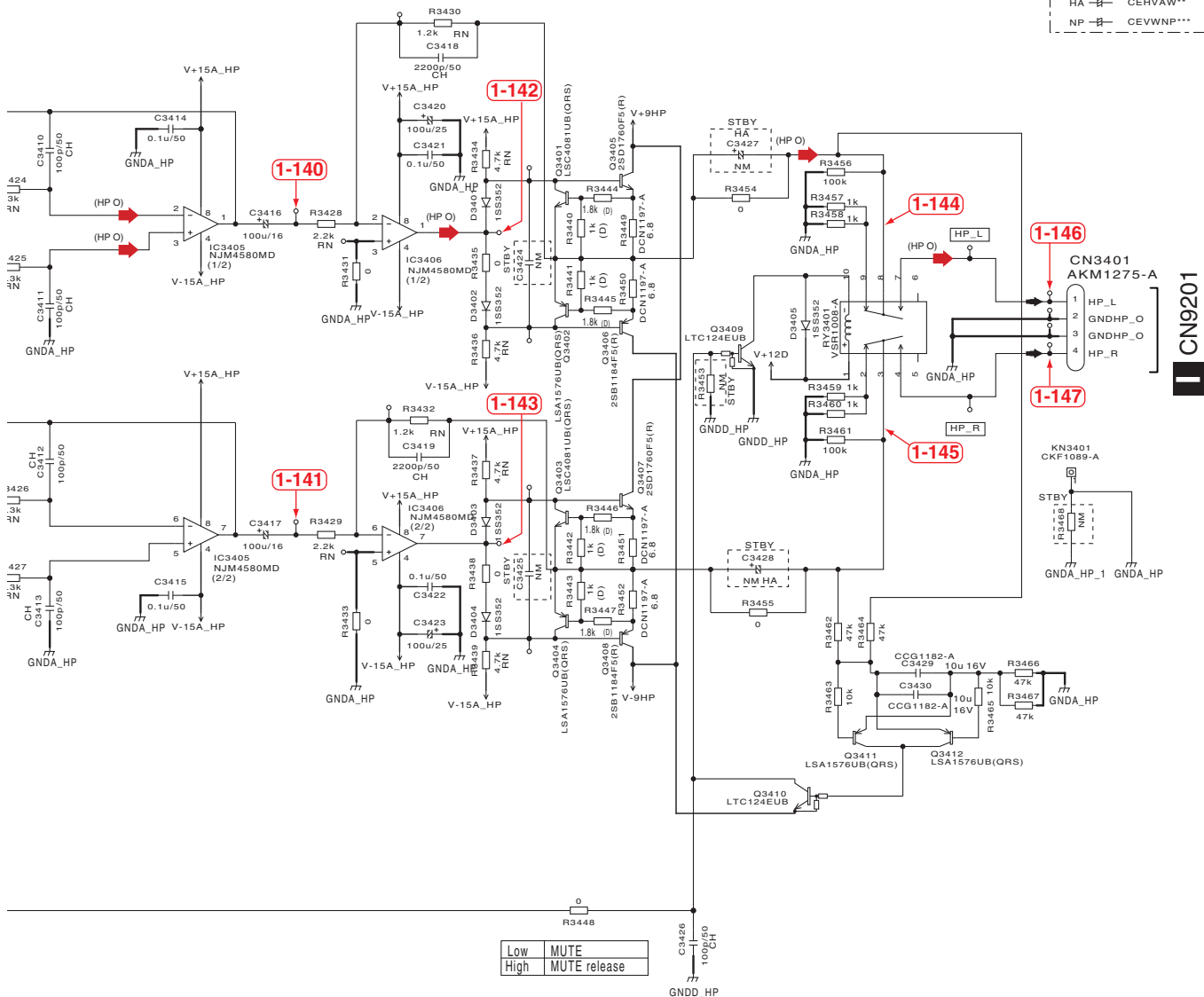
[] : Waveform measuring point

(HP D) [] : HP OUT Digital Signal

(HP O) [] : HP OUT L ch

NOTES

- [] is STBY
- [] RS1/16S****J
- [] RN RS1/10S****J
- [] RN1/10S****J
- (D) [] RS1/16S****D
- (F) [] RS1/10S****F
- [] RS1/16S****F
- [] RS1/10S****F
- 1/8W [] RS1/8S****J
- 1/4W [] RS1/4S****J
- 2W [] RS2****J
- [] RAB4CQ****J
- [] CKSRYB****
- [] CKSSYB****
- CH [] CCSRCH****
- [] CCSSCH****
- [] CCSQCH****
- [] CEVW****
- HA [] CEHVAW****
- NP [] CEVWNP****

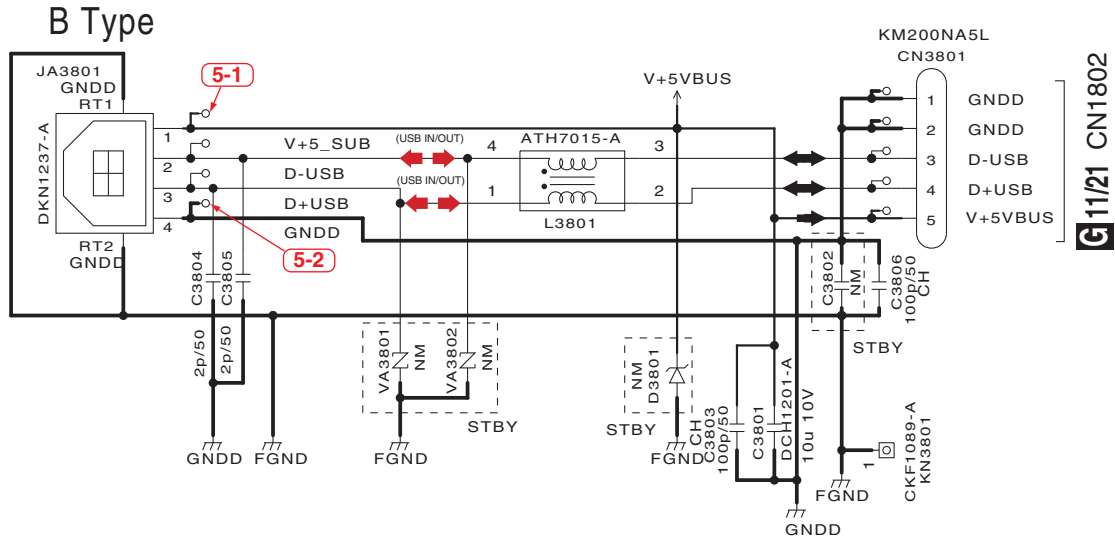


| | |
|------|--------------|
| Low | MUTE |
| High | MUTE release |

10.34 USBI and HPJK ASSYS

H USBI ASSY (DWX3192)

USB2.0 High speed

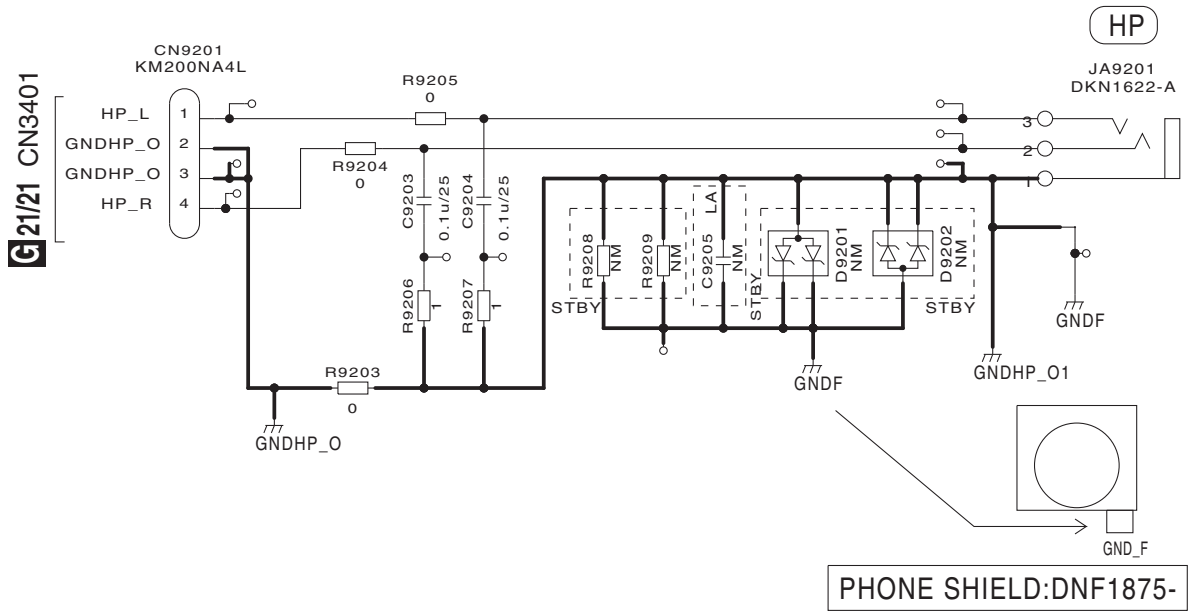


NOTES

- is STBY
- RS1/16S****J
RS1/10S****J
- CKSRYB****
CKSSYB****
- CCSSCH****
CCSSCH****
CCSQCH****

: Waveform measuring point
 : USB IN/OUT Signal

HPJK ASSY (DWX3208)



NOTES

- |—| is STBY
- |—| CKSRYB
- LA —|—| CFTLA
- |—| RS1/10SR***J

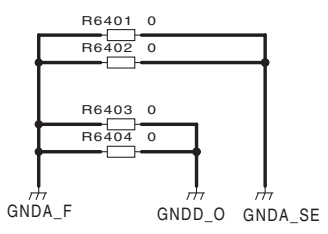
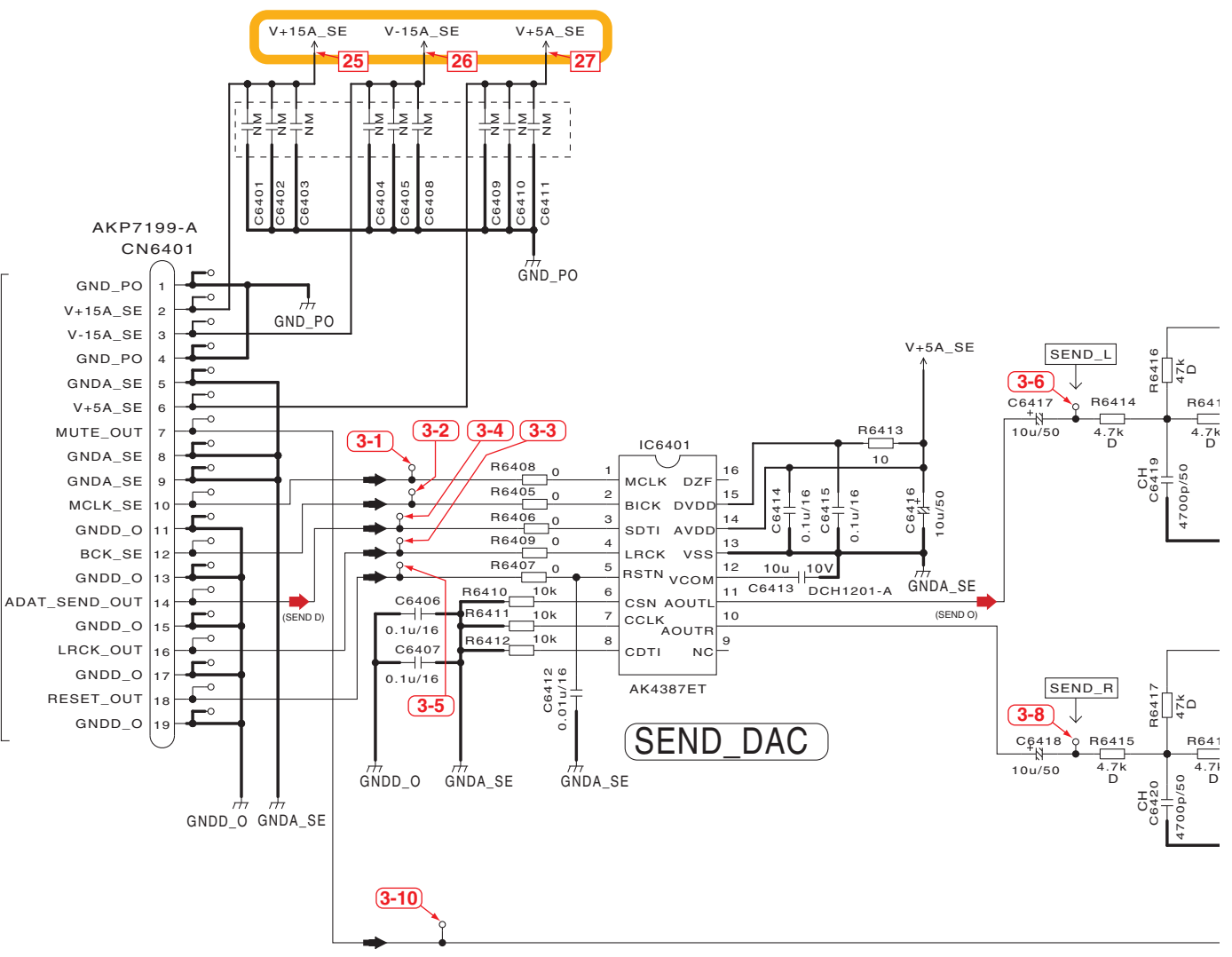


10.35 SEND ASSY

1 2 3 4

A
B
C
D
E
F

G1/21 CN1003



NOTES

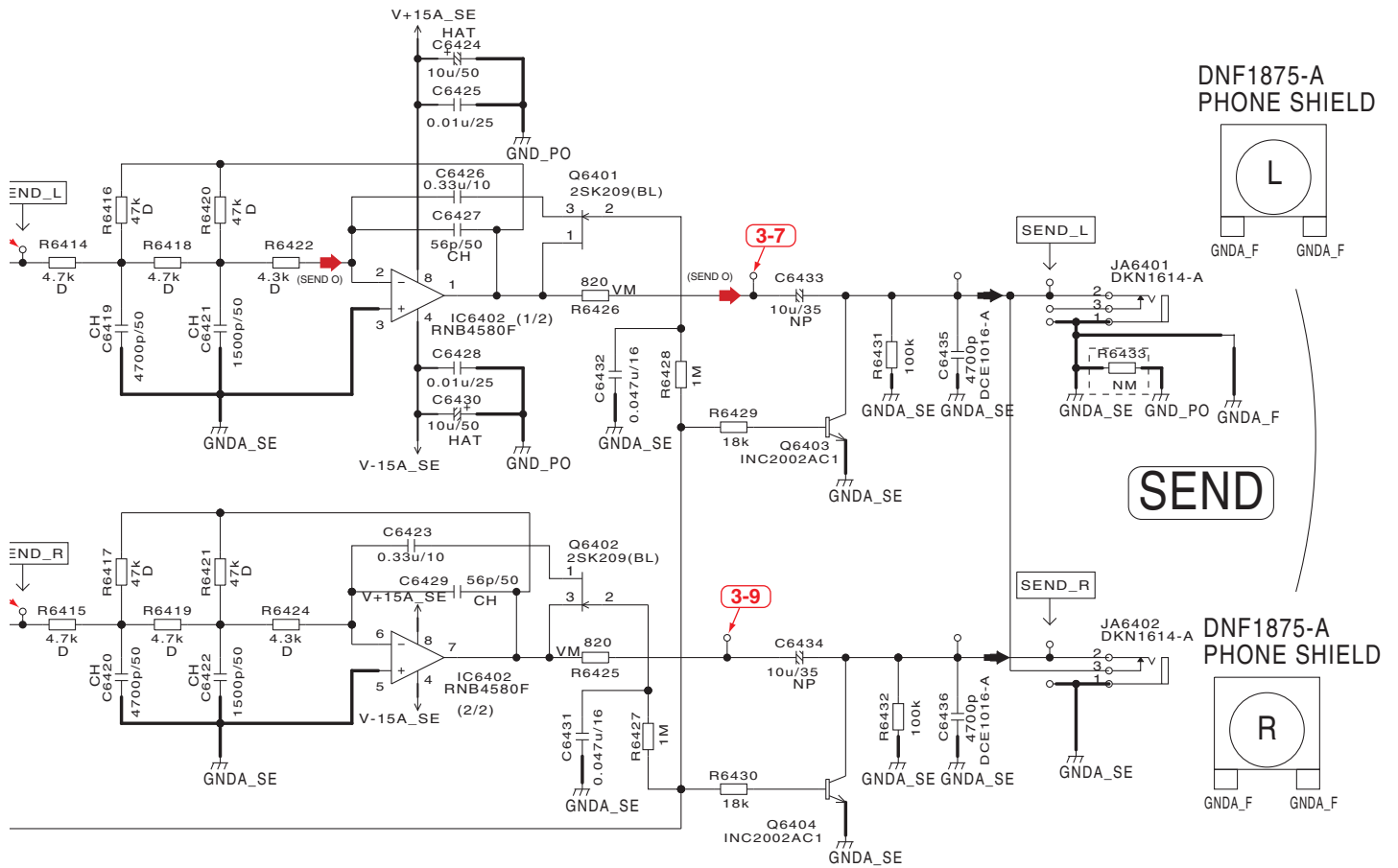
| | |
|-----|--------------|
| VM | RD1/2VM*** |
| D | RS1/10SS***D |
| | RS1/10SR***J |
| | RS1/16SS***J |
| | CKSRYB |
| | CKSSYB |
| CH | CCSRCH |
| | CCSSCH |
| | CCSQCH |
| NP | CEANP |
| | CEAT |
| HAT | CEHAT |
| ZL | CEHAZL |



J

1 2 3 4

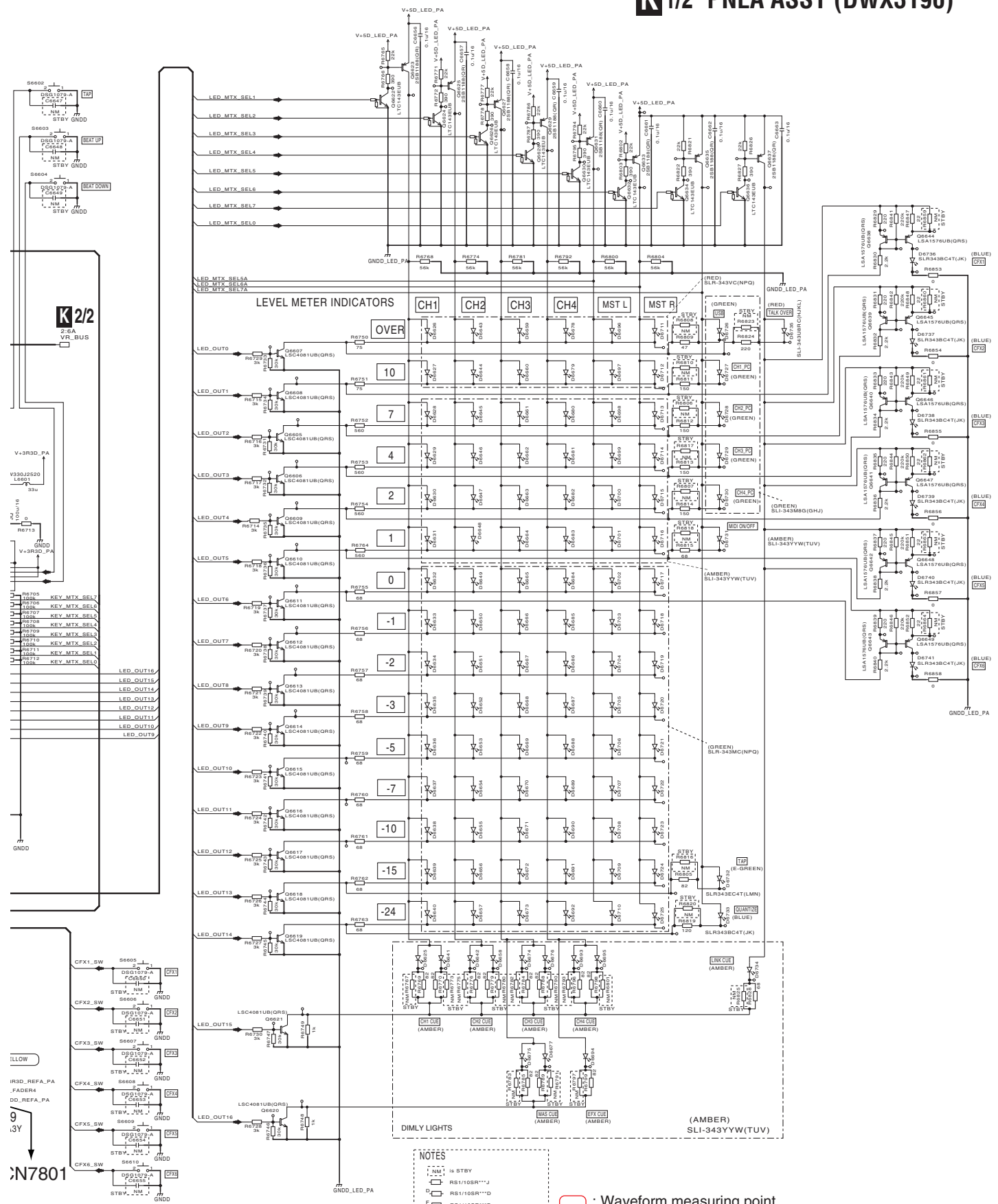
Shaping noise filter



- : Voltage measuring point
- : Waveform measuring point

- ➔ (SEND O) : SEND Output Audio Signal (L CH)
- ➔ (SEND D) : SEND DIGITAL Signal

K1/2 PNLA ASSY (DWX3196)

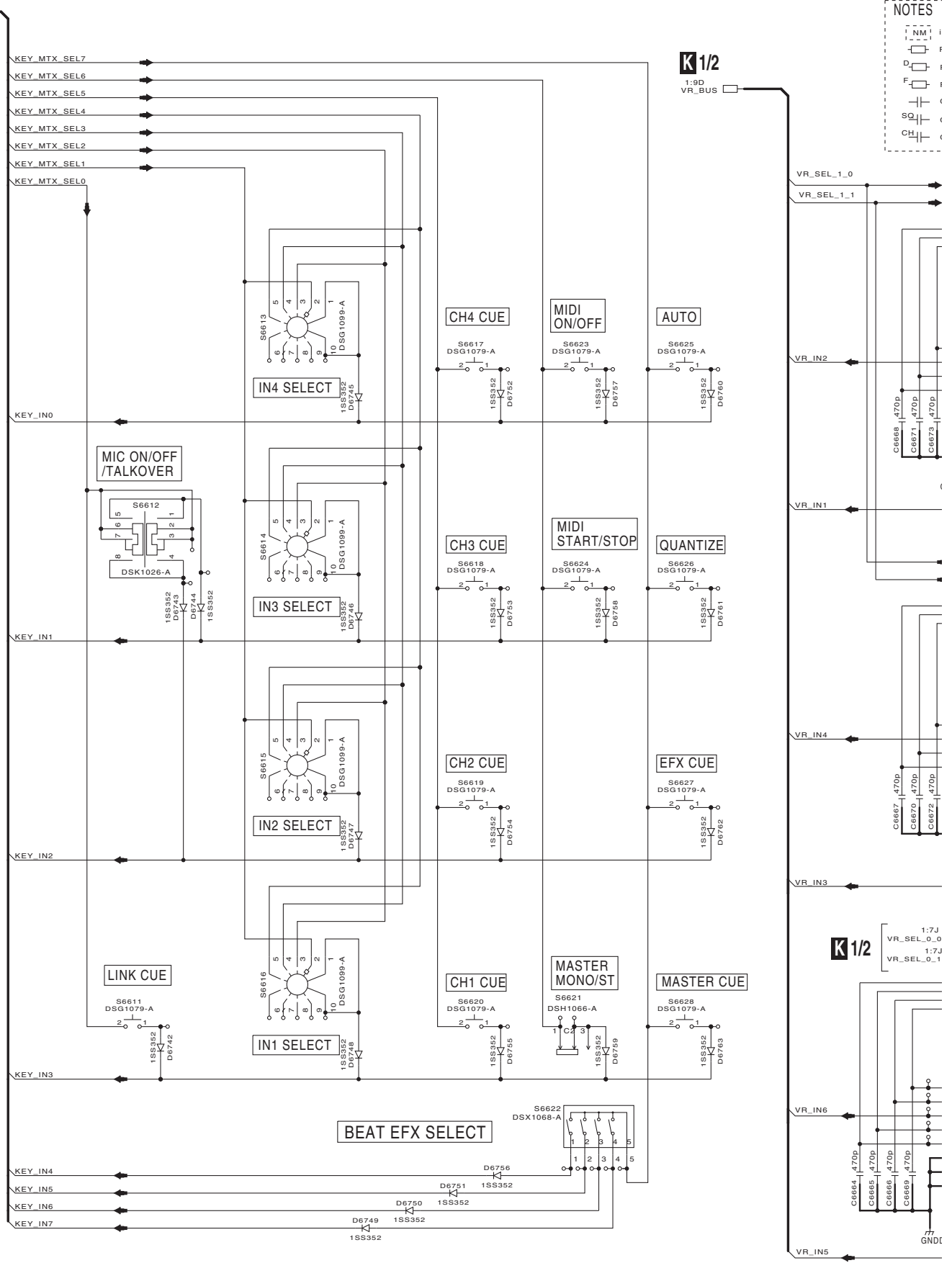


- NOTES**
- NM1 is STBY
 - RS1/10SR1**J
 - RS1/10SR1**D
 - RS1/10SR1**F
 - CKSRVB
 - CKSOVB
 - CCSRCH
 - CEAT
 - CE1J

○ : Waveform measuring point



10.37 PNLA ASSY (2/2)



NOTES

| | |
|----|---|
| NM | i |
| D | F |
| F | F |
| SG | C |
| CH | C |

K 1/2
 1:7J VR_SEL_0_0
 1:7J VR_SEL_0_1

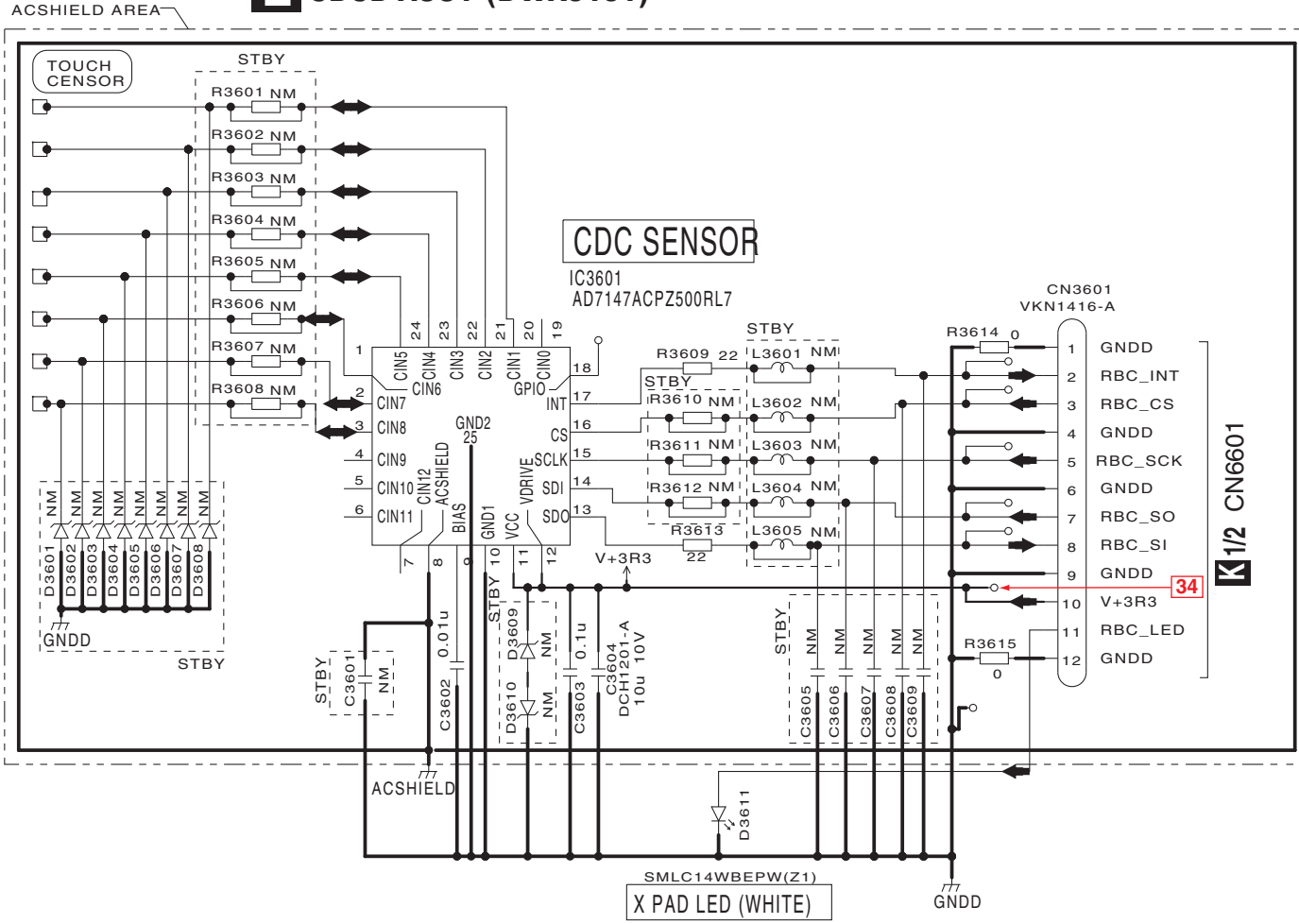
K 1/2
 1:2K BOOTH_LEVEL
 1:2K HP_MIX
 1:2K HP_LEVEL
 LEVEL/D

K 2/2

10.38 CDCB and FAD1 to FAD4 ASSYS

CDCB ASSY (DWX3191)

A
B
C
D
E
F



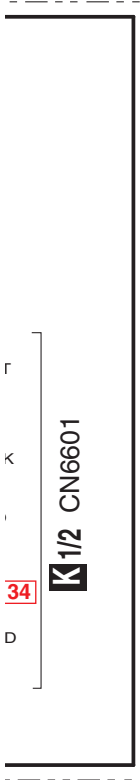
NOTES

- NM- is STBY
- RS1/16S****J
RS1/10S****J
- ||- CKSRYB****
CKSSYB****
- CH -||- CCSRCH****
CCSSCH****
CCSQCH****

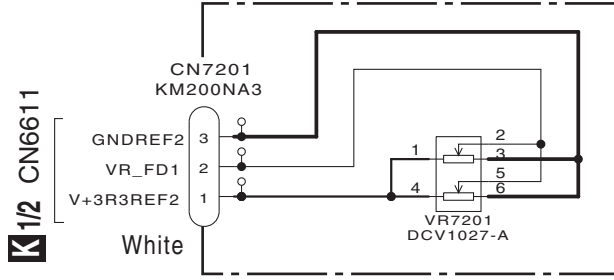
□ : Voltage measuring point



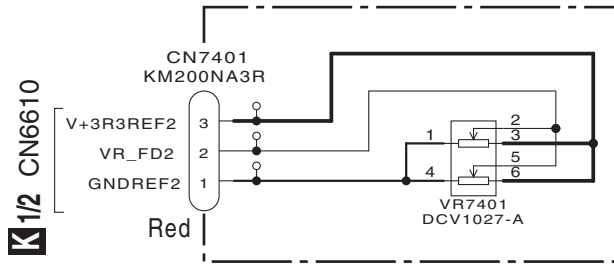
A
B
C
D
E
F



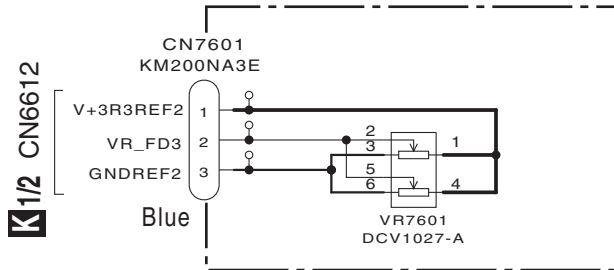
M FAD1 ASSY (DWX3198)



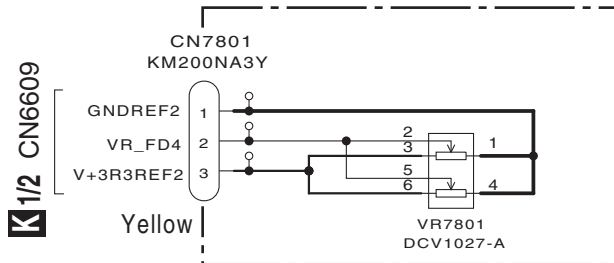
N FAD2 ASSY (DWX3199)



O FAD3 ASSY (DWX3200)



P FAD4 ASSY (DWX3201)



10.39 PNLB and FADC ASSYS

1

2

3

4

A

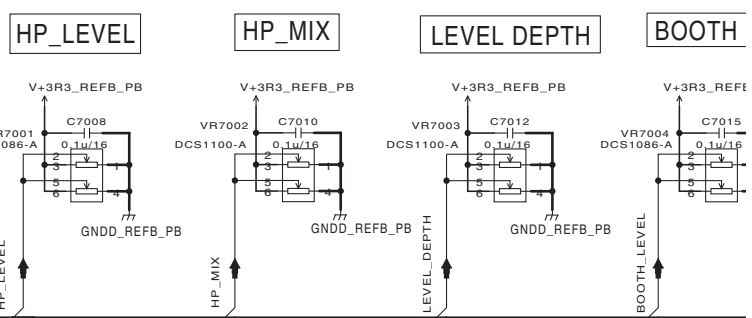
B

C

D

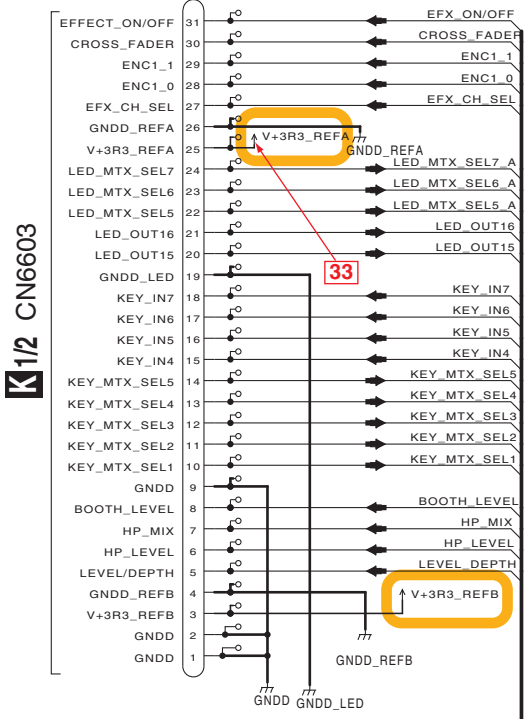
E

F

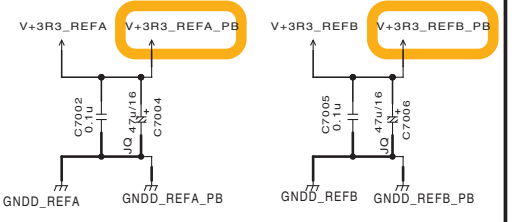
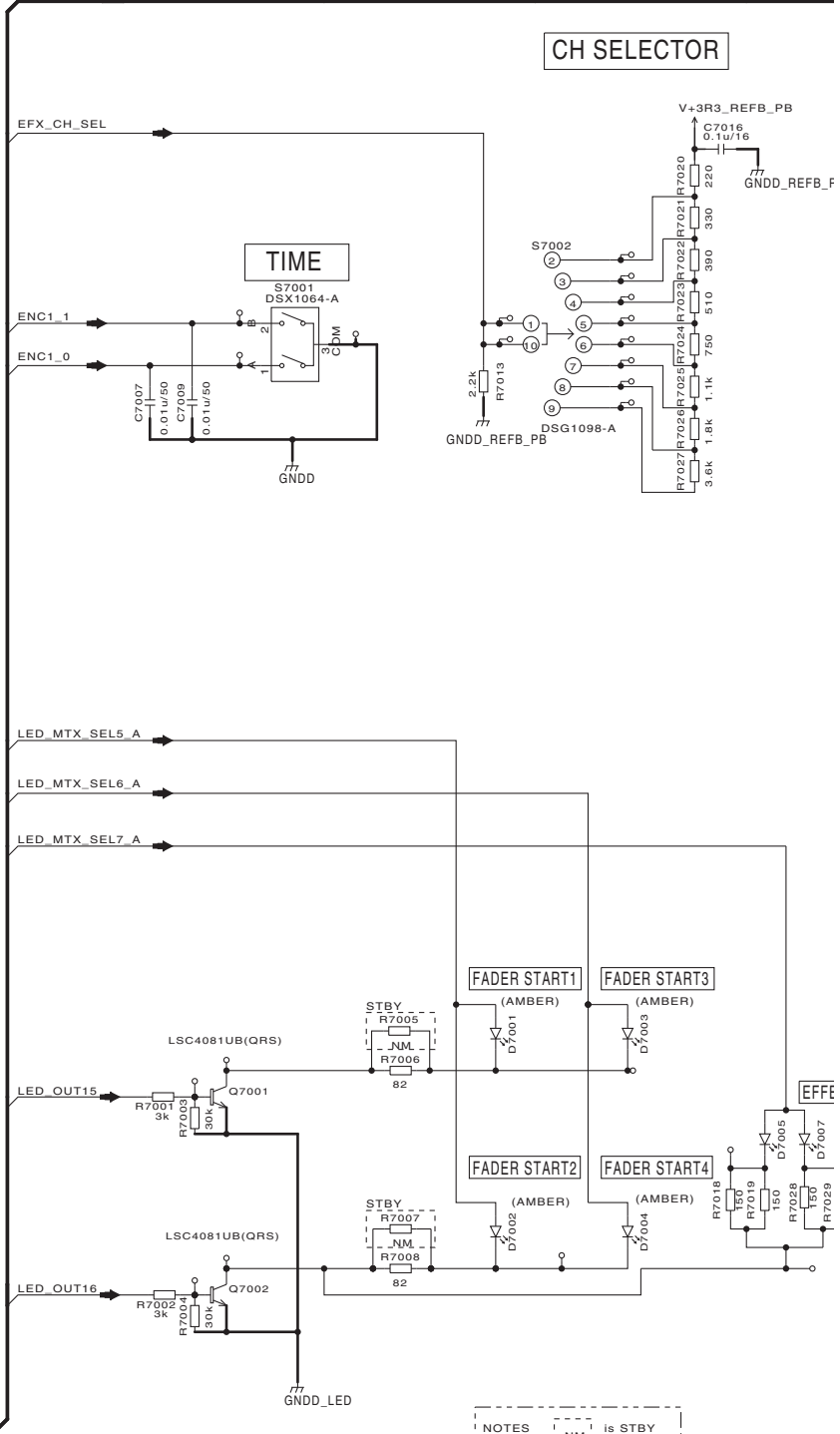


□ : Voltage measuring point

CN7001
9604S-31C



K 1/2 CN6603



NOTES
 [Symbol] is STBY
 [Symbol] RS1/10SR****J
 [Symbol] CKSRYB
 [Symbol] CEJQ****



1

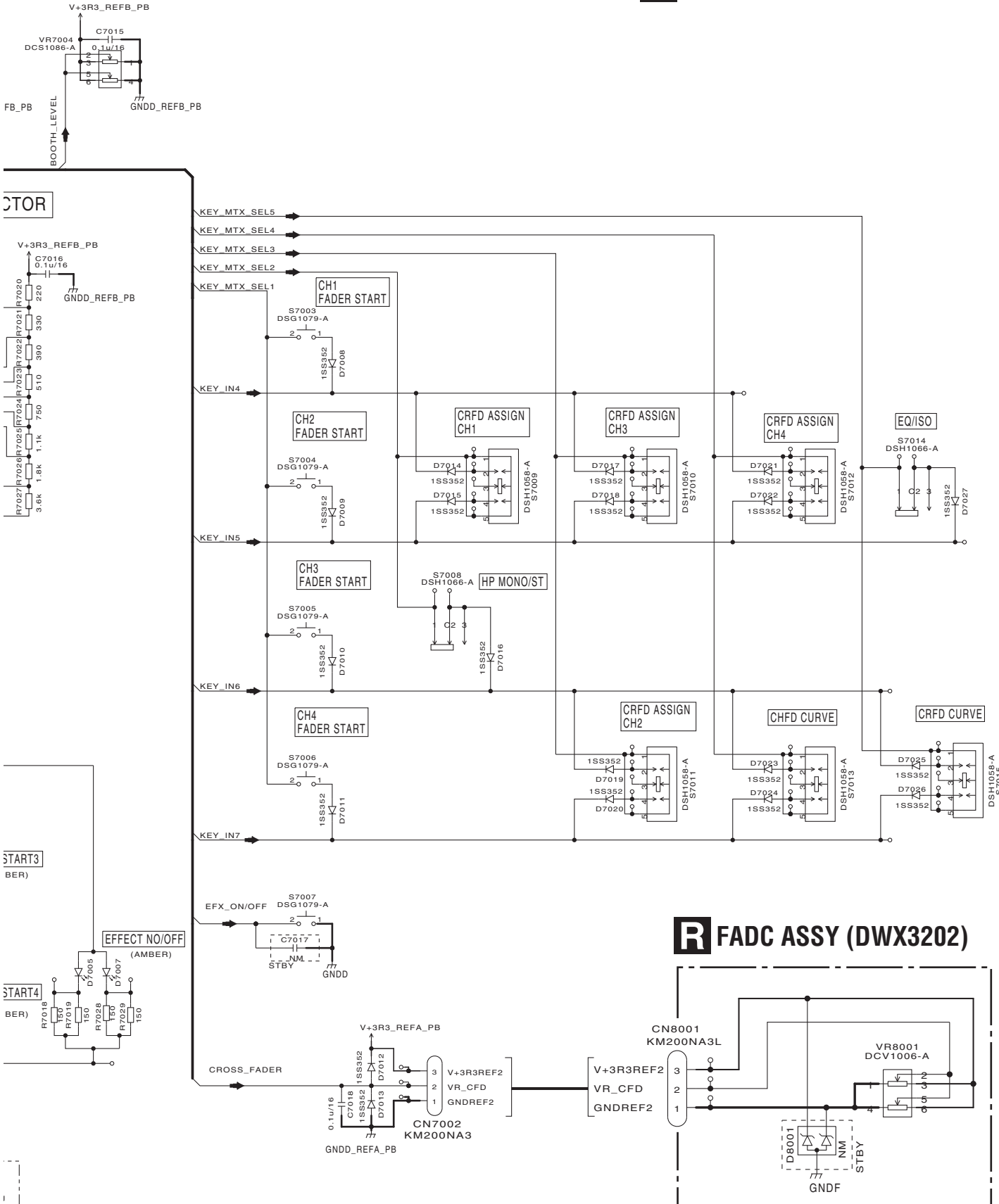
2

3

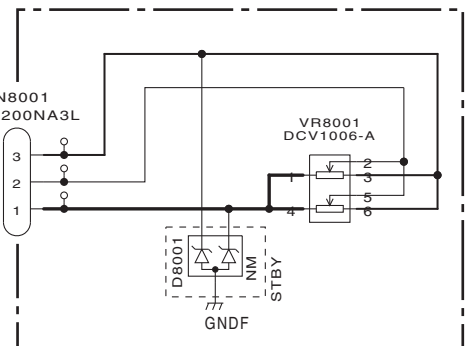
4

H BOOTH LEVEL

Q PNLB ASSY (DWX3197)

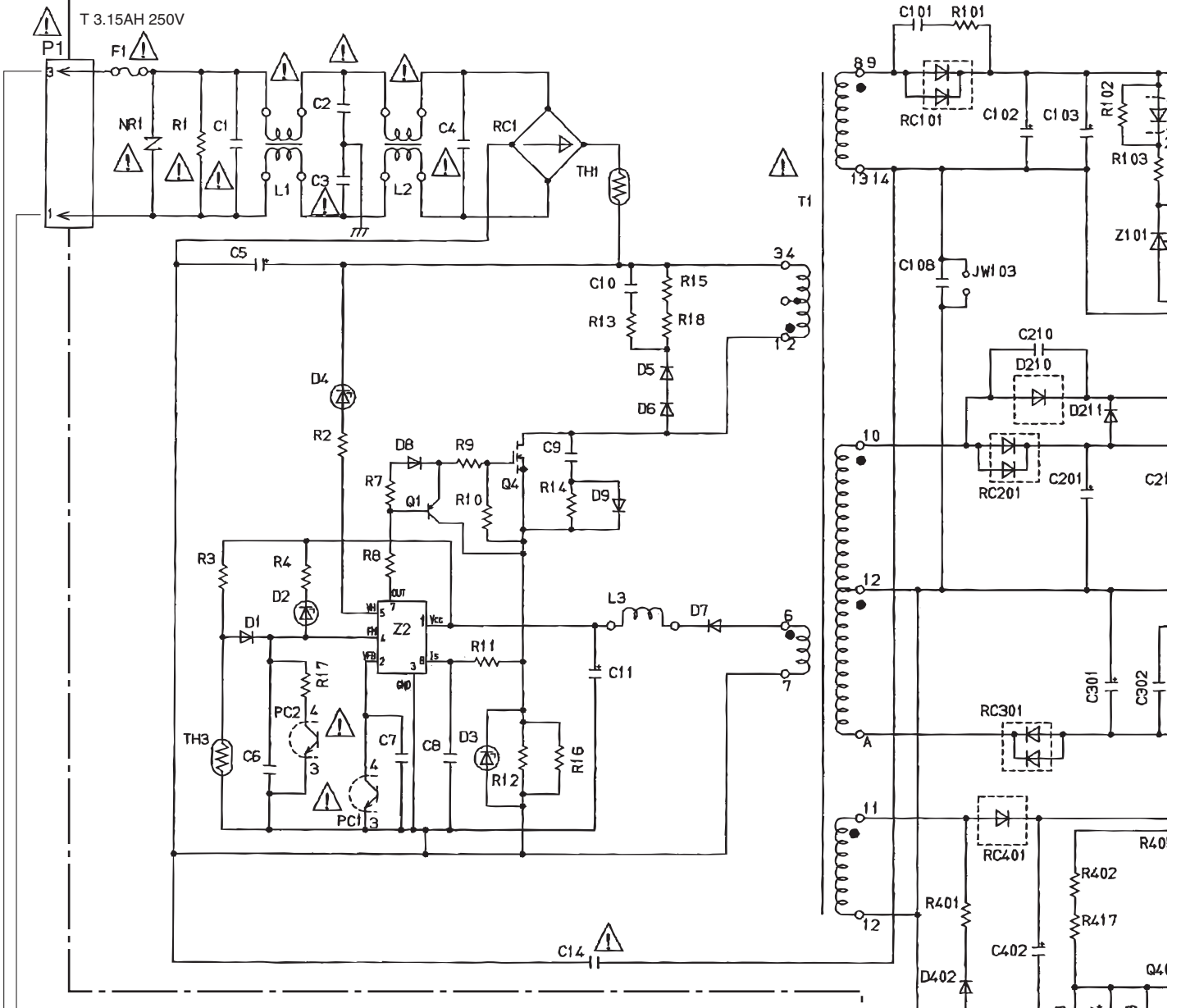


R FADC ASSY (DWX3202)

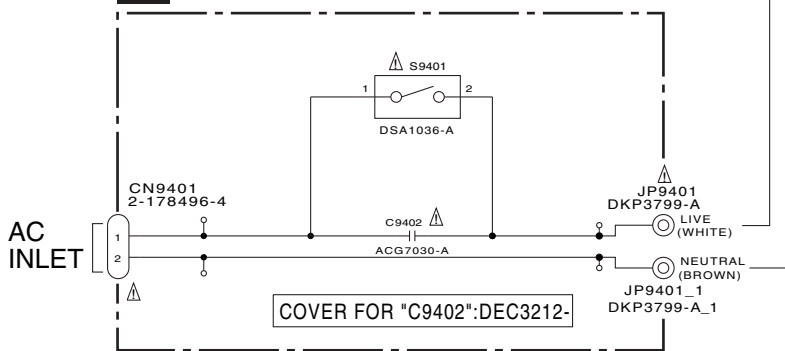


10.40 POWER SUPPLY and AC SW ASSYS

S POWER SUPPLY ASSY (DWR1492)

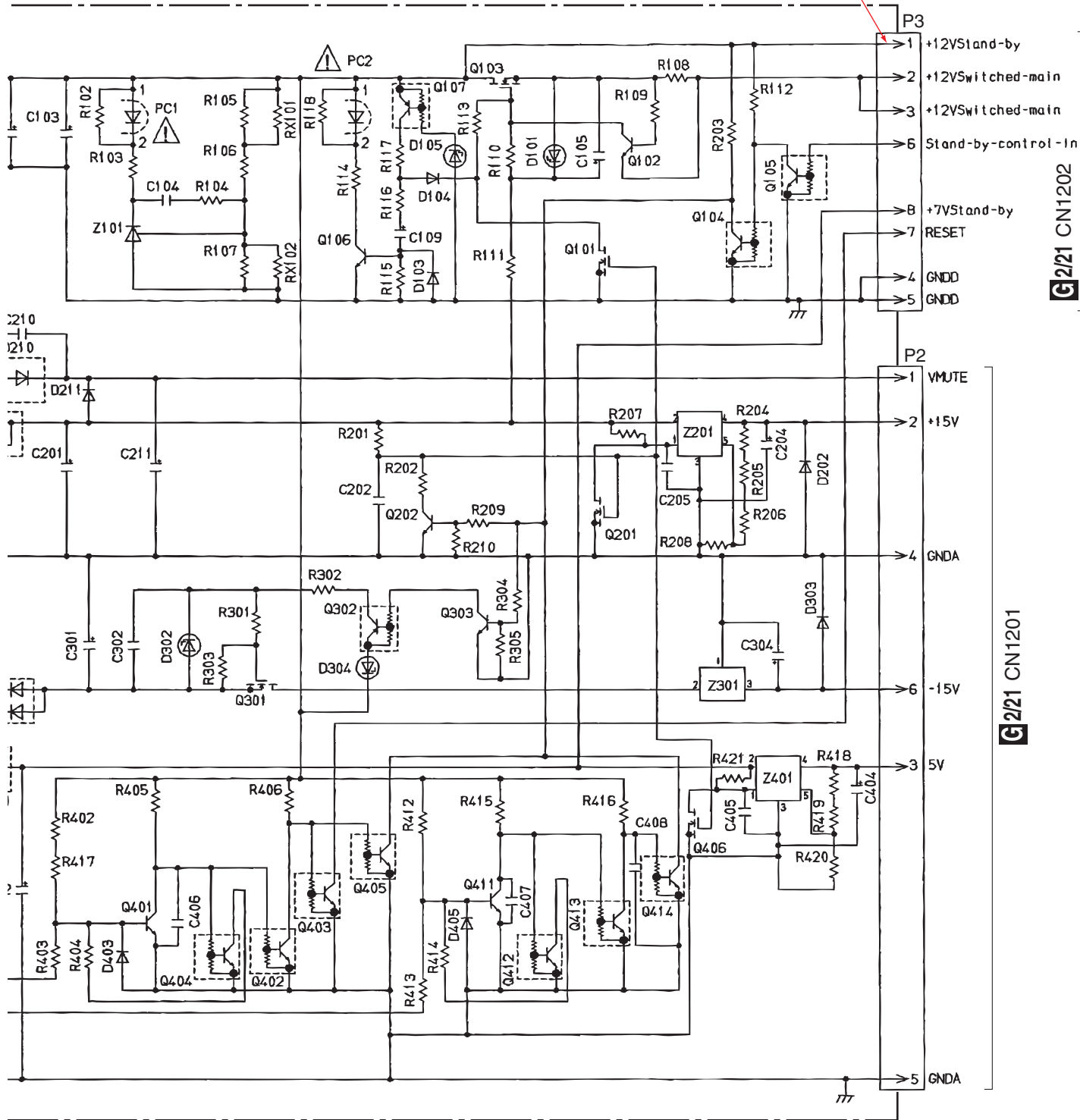


T ACSW ASSY (DWR1490)



NOTE
CAUTION

6-1



○ : Waveform measuring point

• NOTE FOR FUSE REPLACEMENT

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

The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

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

10.41 WAVEFORMS

A Measurement Condition

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

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

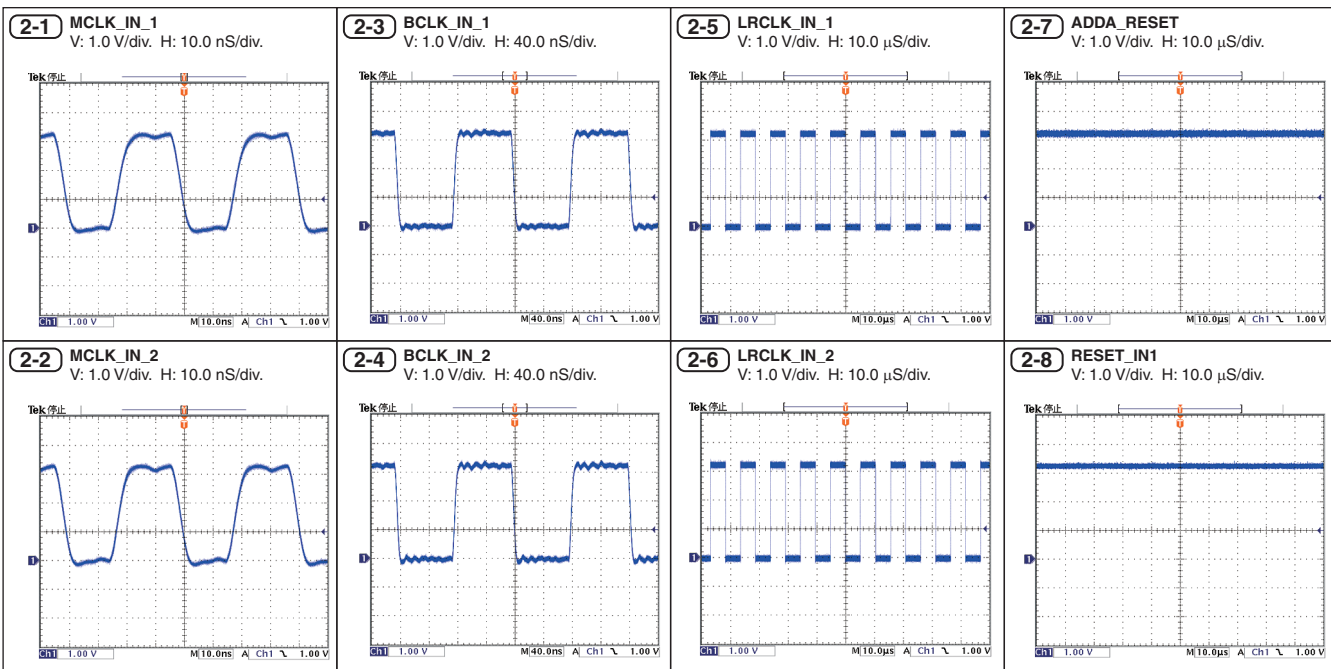
Measure the output waveforms at the CH1 CD input.

Switch Type Setting

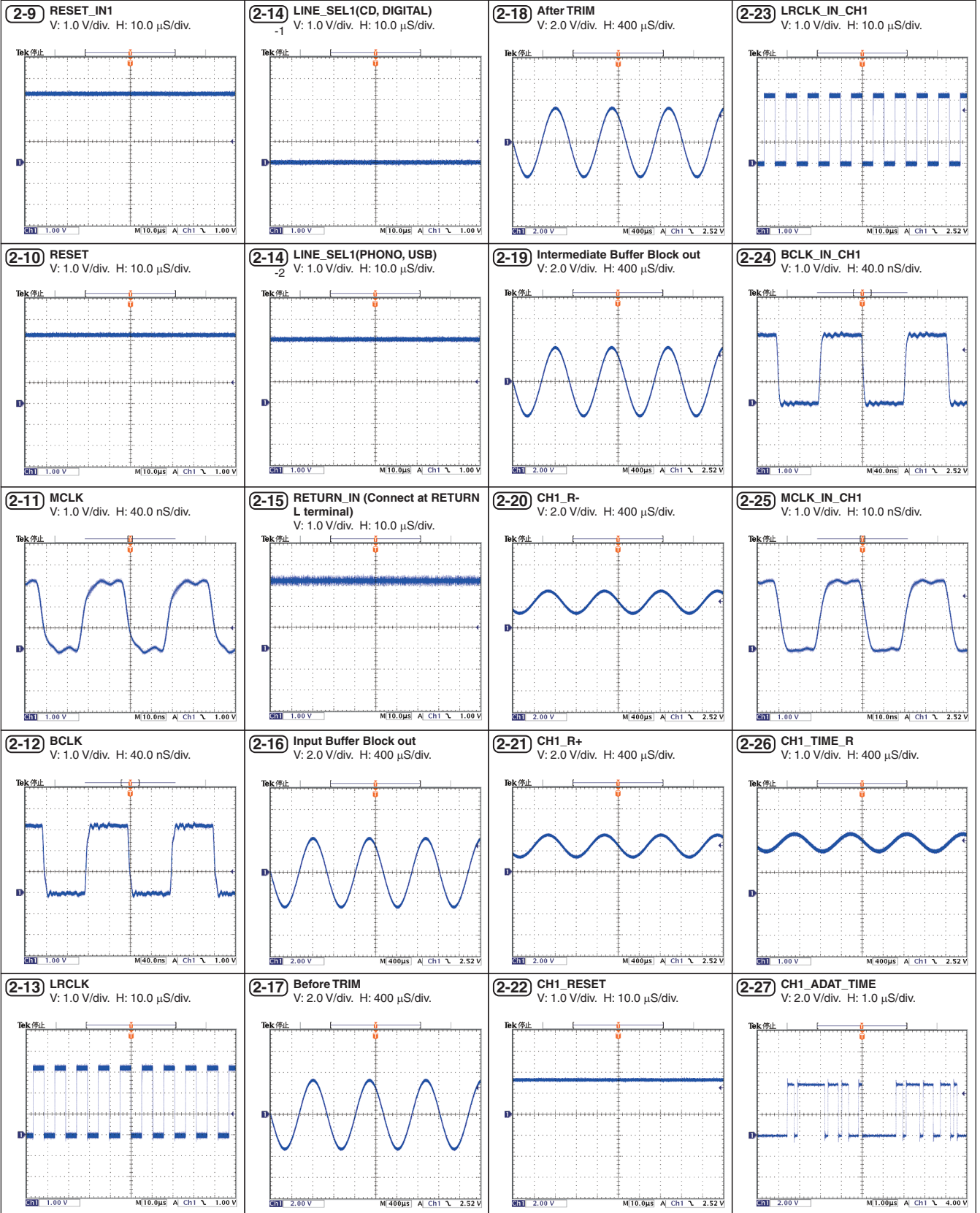
MASTER ATT : 0 dB
 MONO/ST(HP) : ST
 MON/ST(MASTER) : ST
 CH FADER CURVE : Right side (linear)
 CROSS FADER CURVE : Center
 CROSS FADER ASSIGN : THRU
 MIC SW : ON
 MASTER CUE : ON
 FILTER : MIN
 ISOLATOR : EQ

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

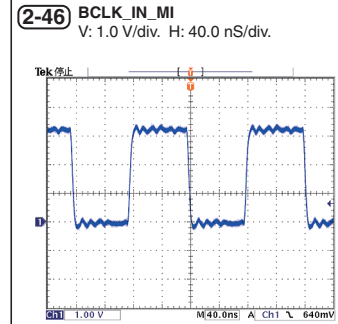
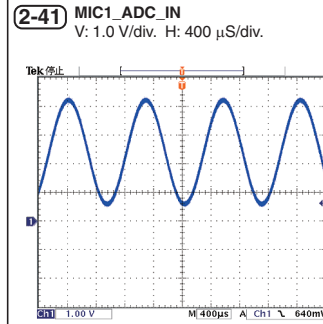
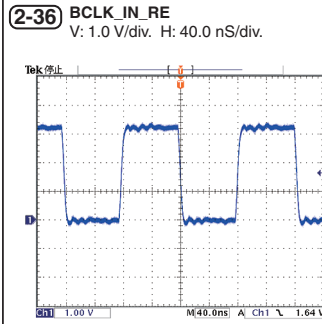
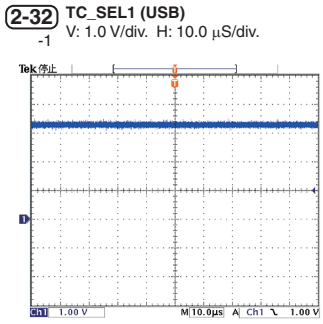
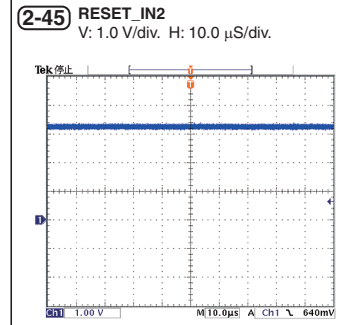
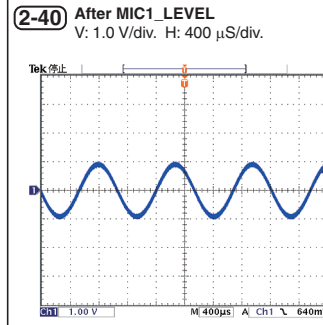
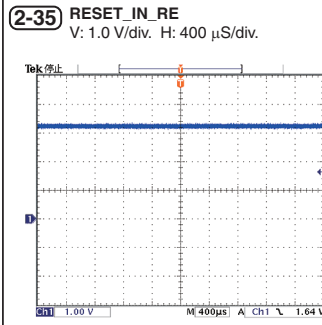
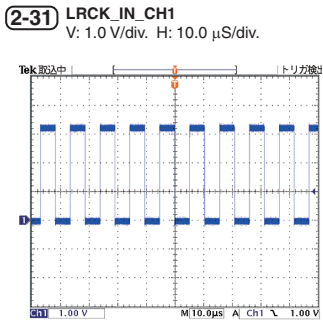
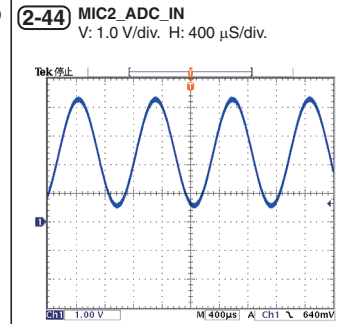
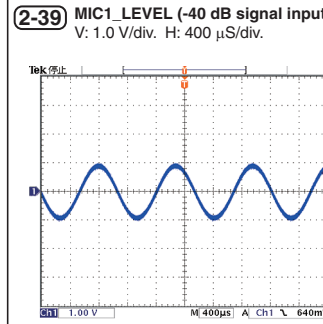
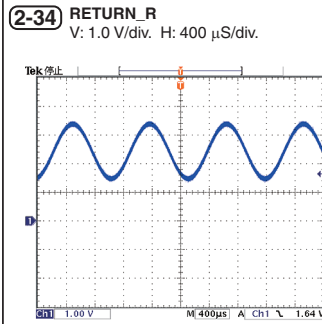
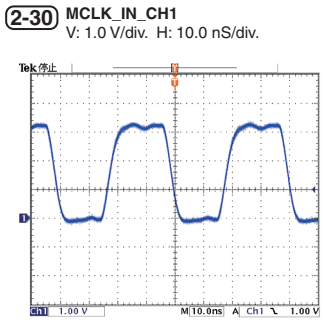
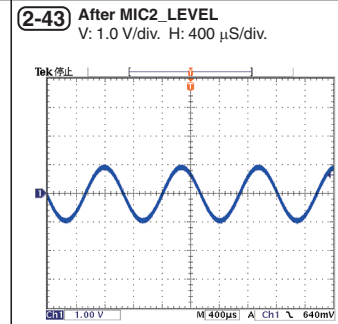
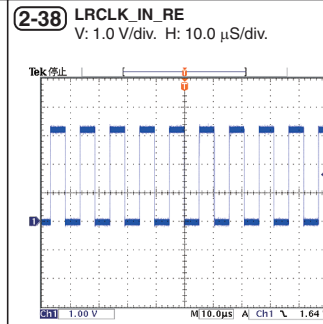
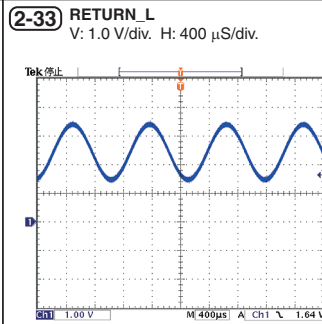
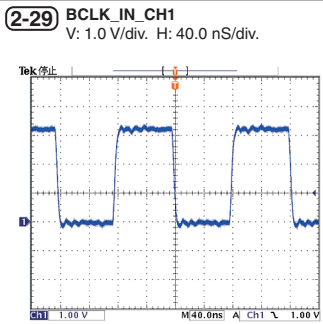
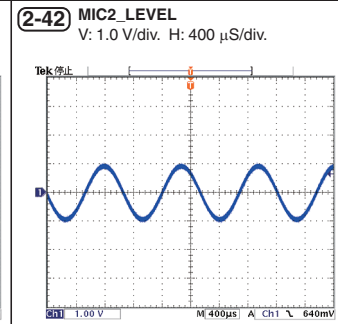
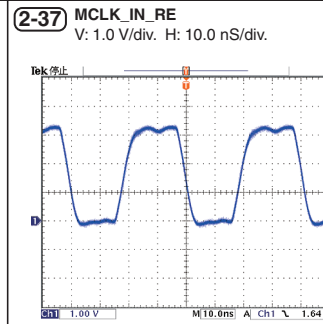
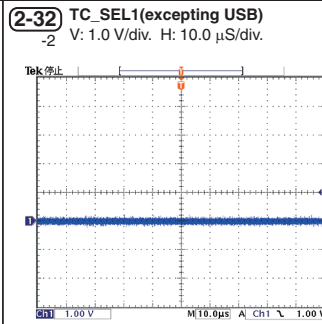
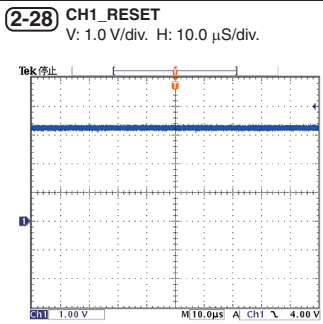
A INPUT ASSY



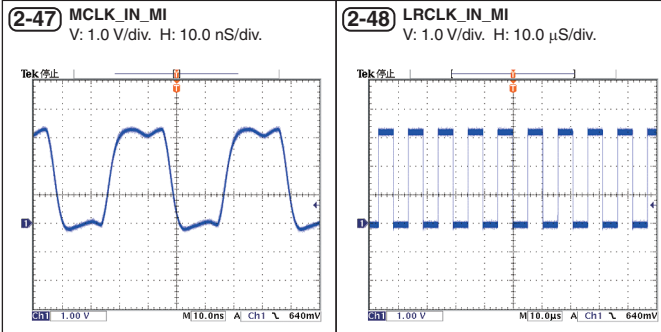
A INPUT ASSY



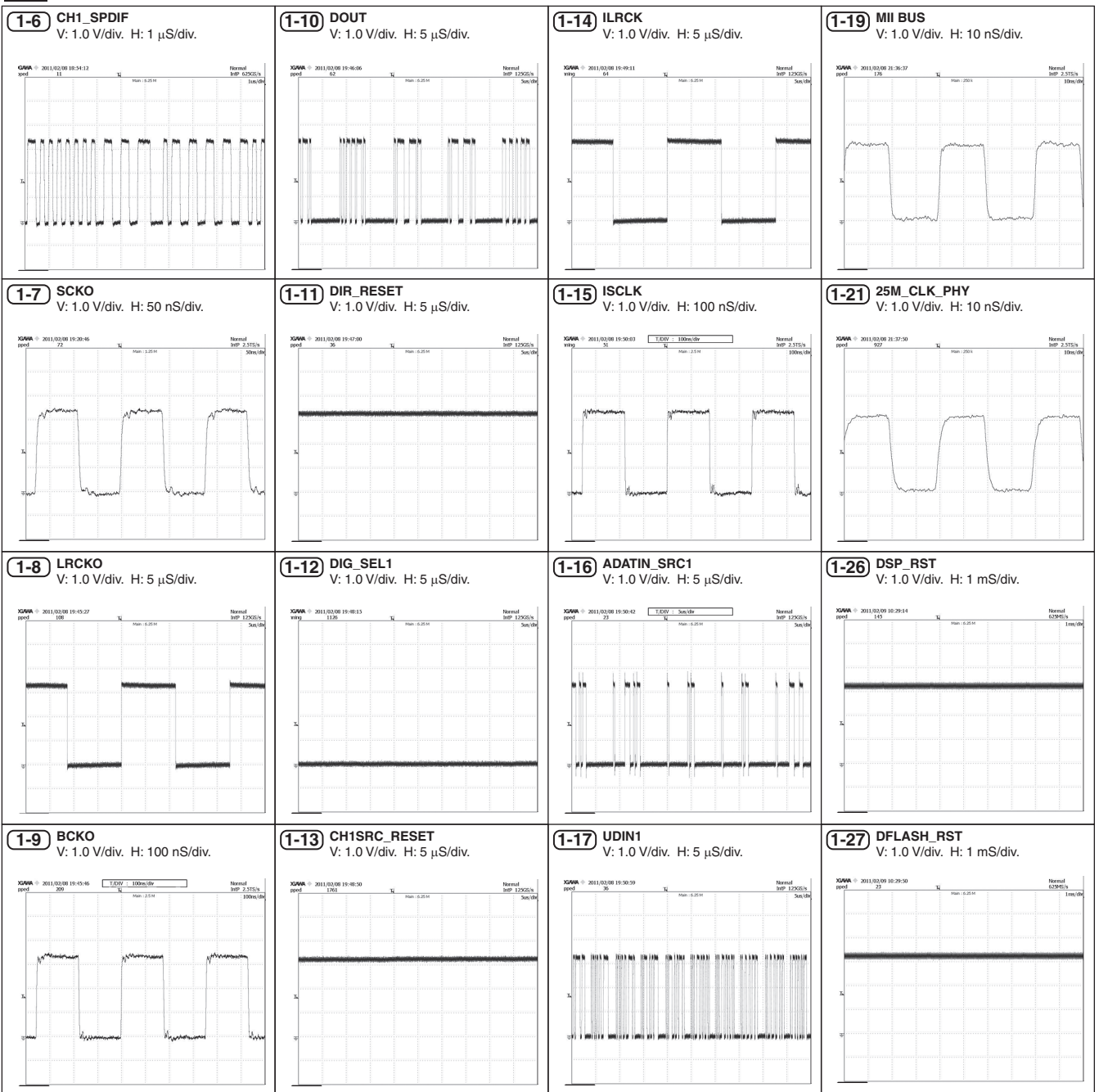
A INPUT ASSY



A INPUT ASSY

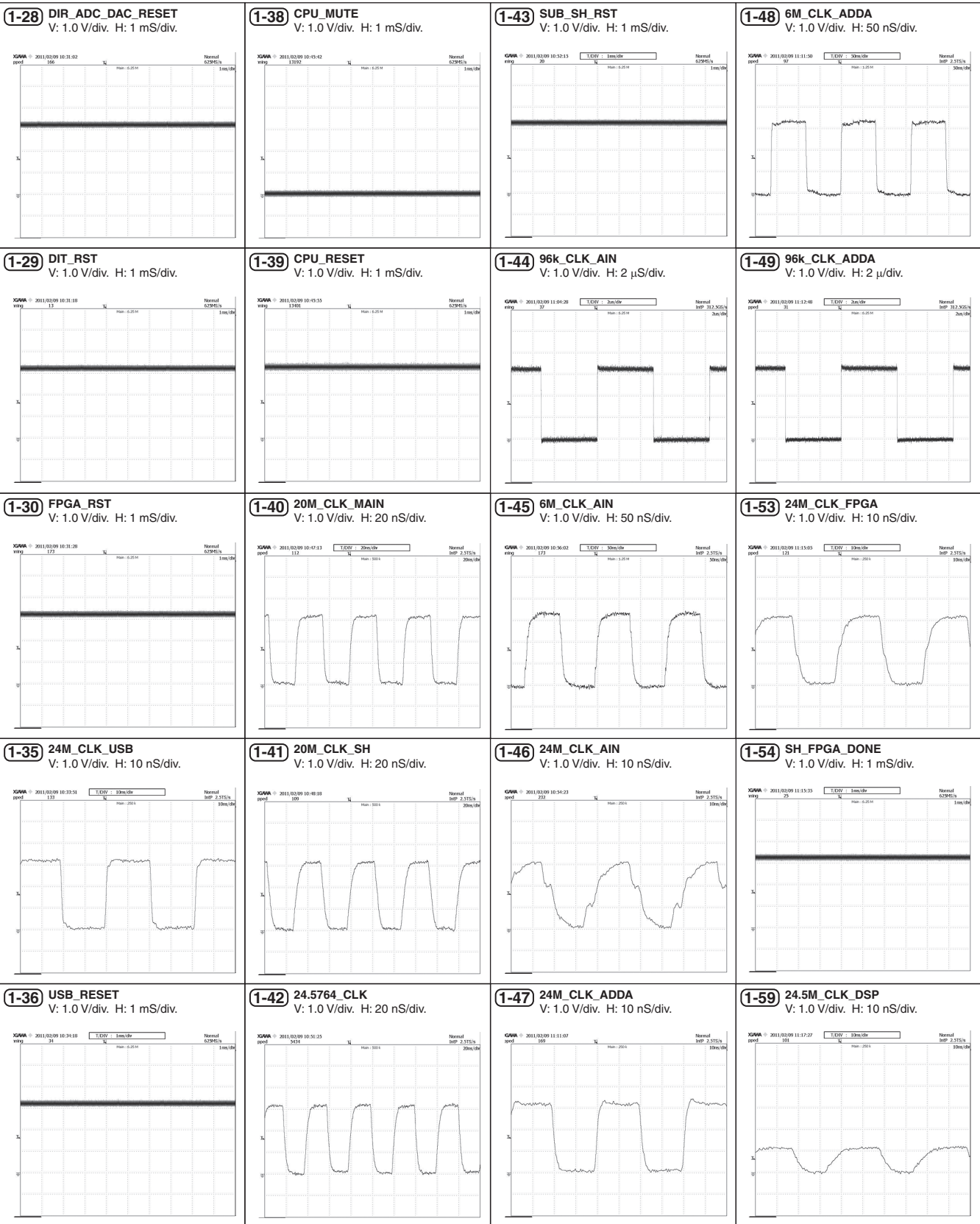


G MAIN ASSY



A

G MAIN ASSY



B

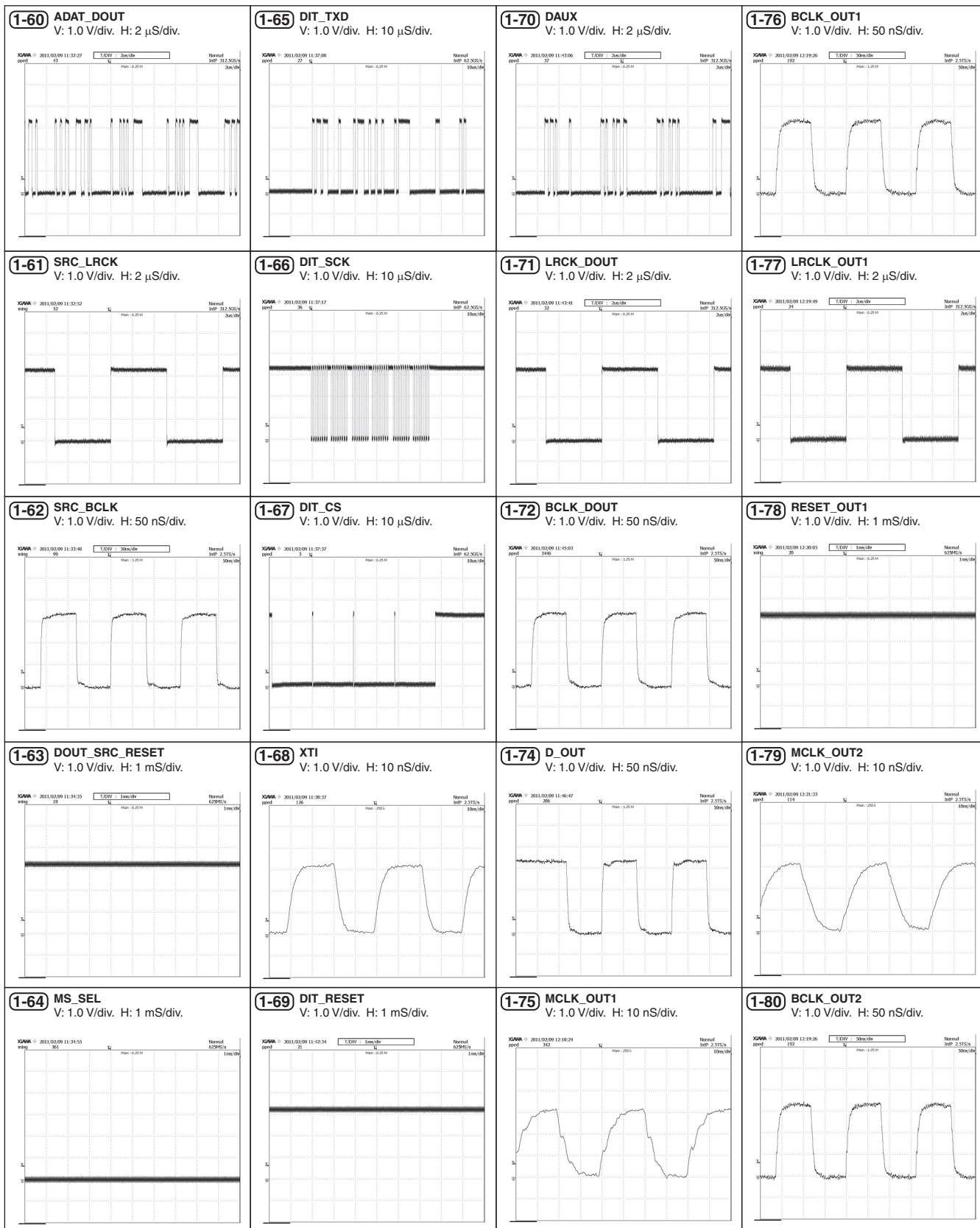
C

D

E

F

G MAIN ASSY



A

G MAIN ASSY

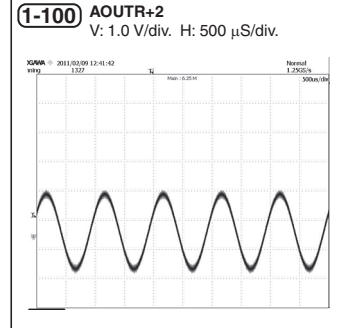
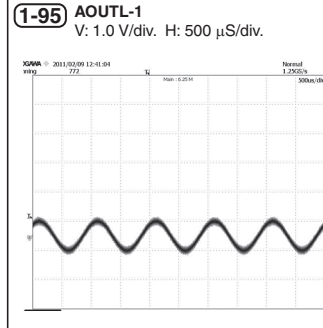
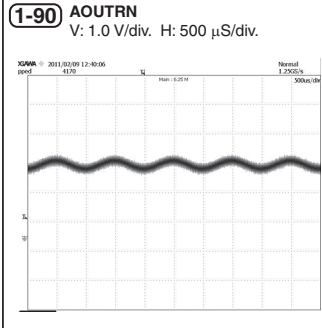
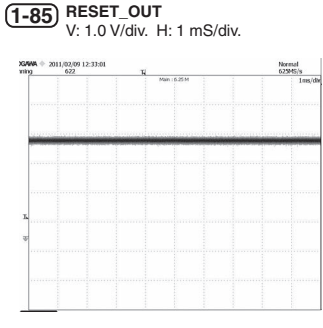
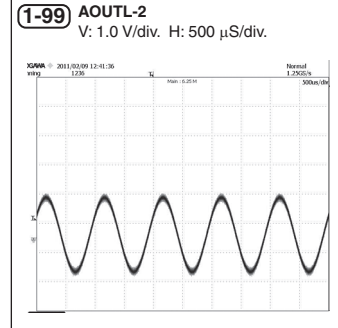
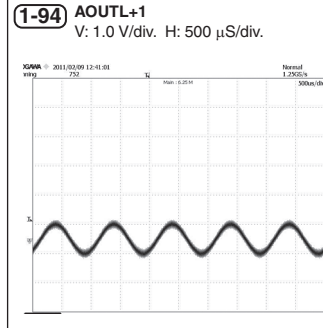
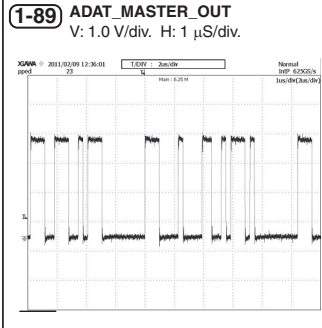
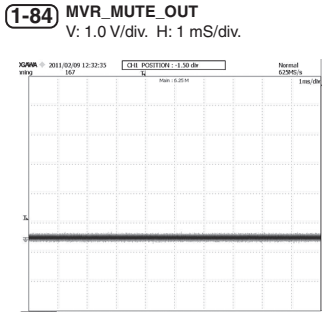
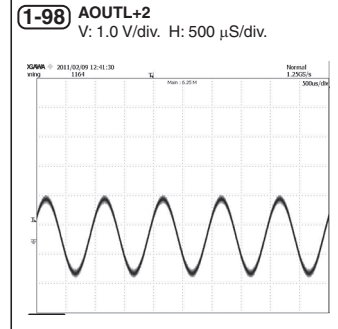
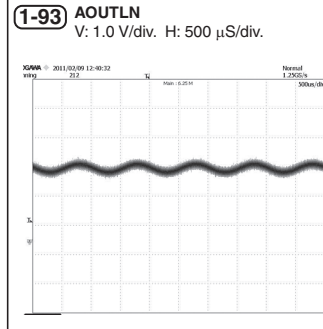
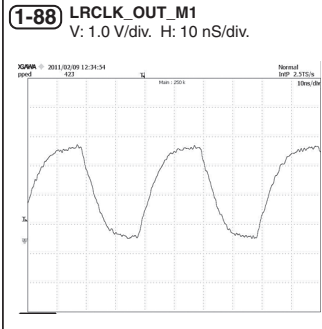
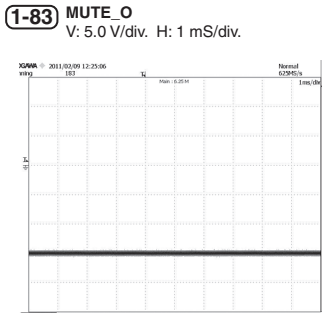
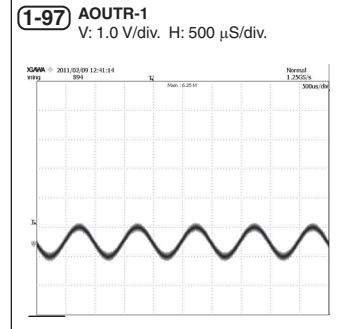
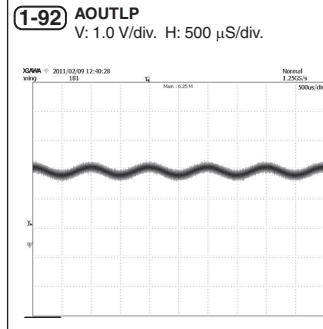
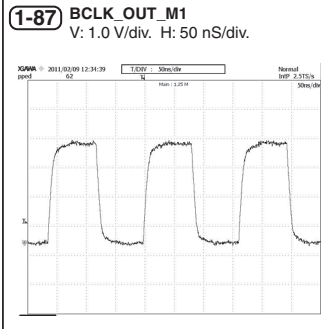
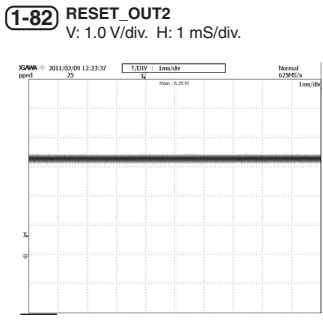
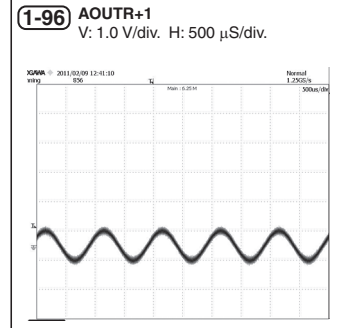
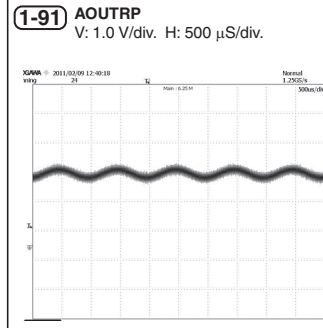
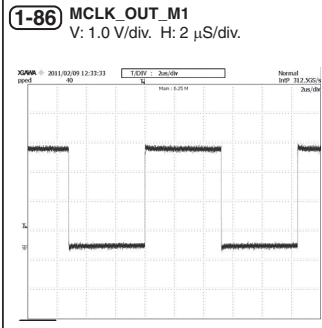
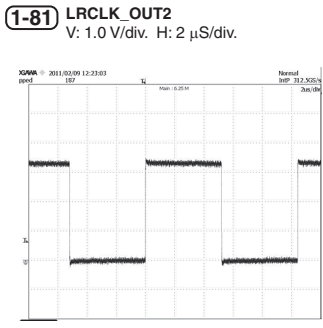
B

C

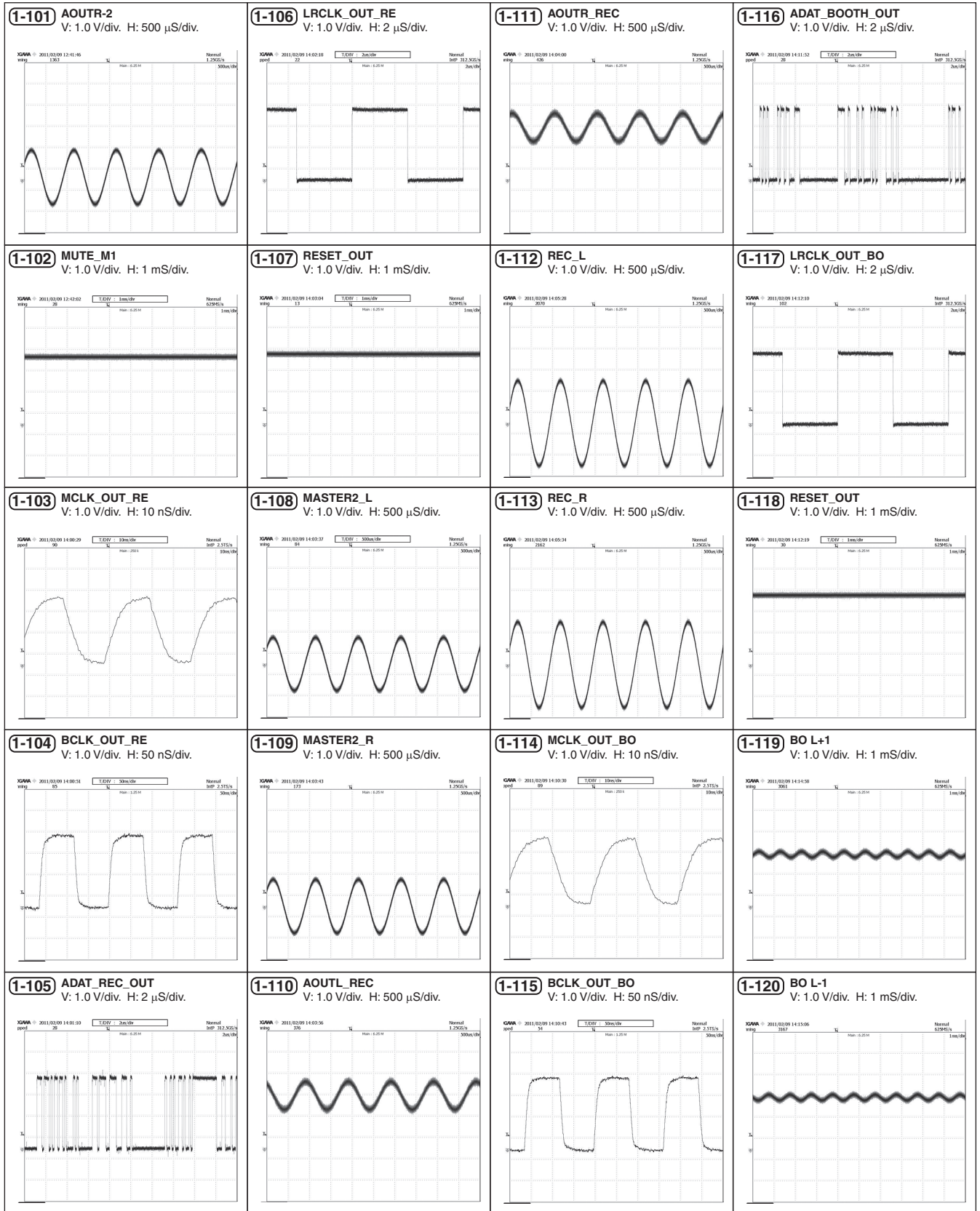
D

E

F



G MAIN ASSY



A

G MAIN ASSY

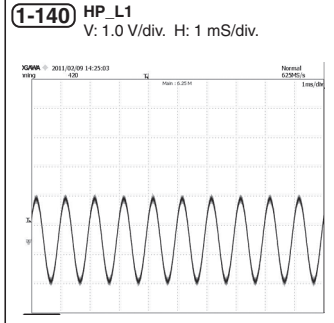
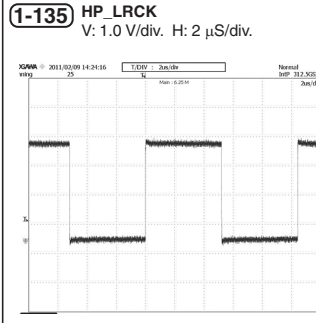
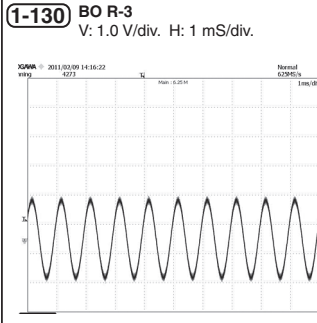
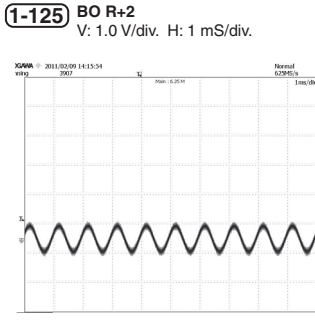
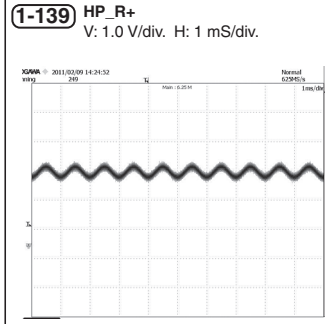
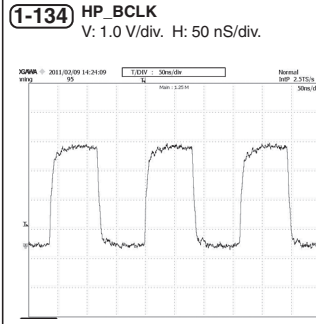
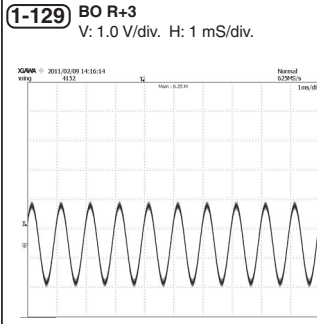
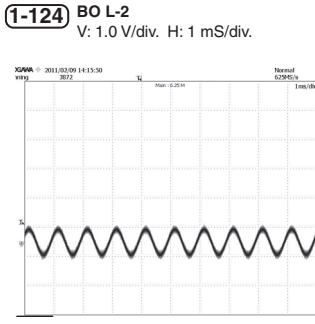
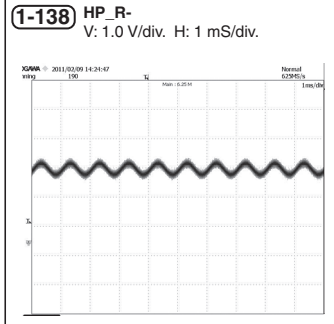
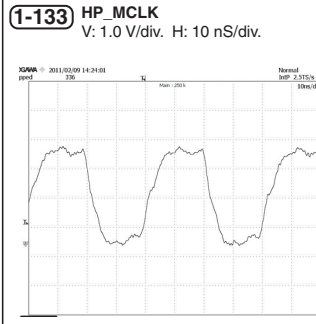
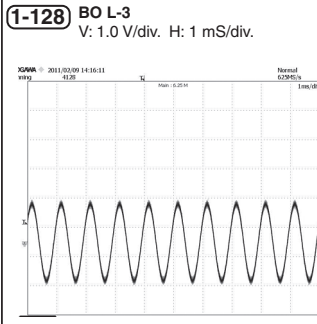
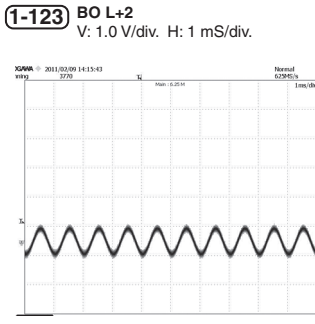
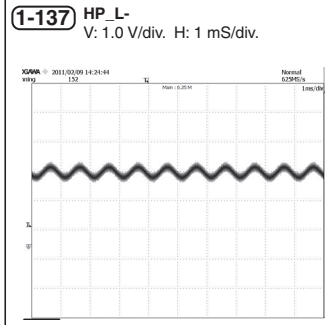
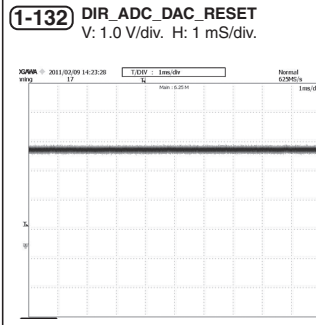
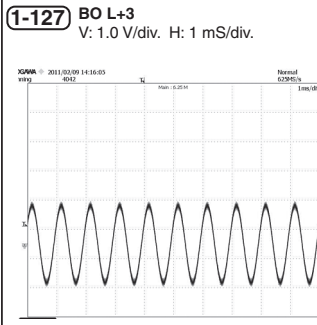
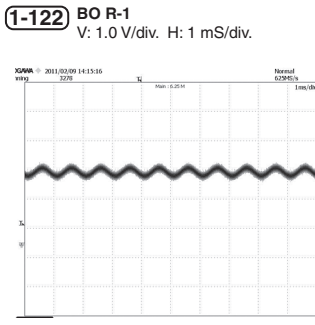
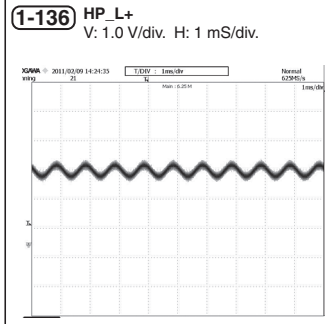
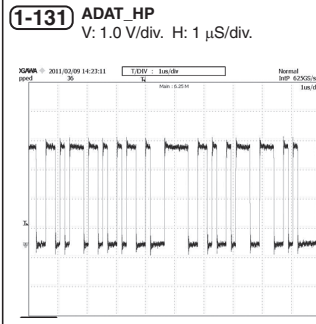
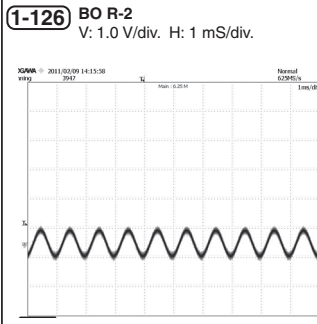
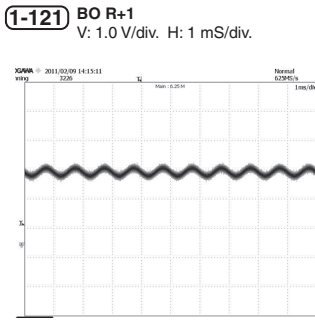
B

C

D

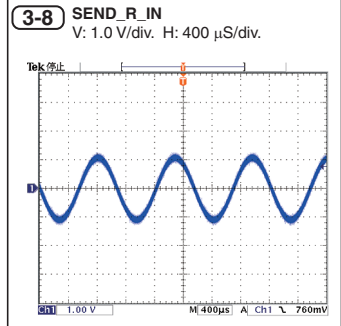
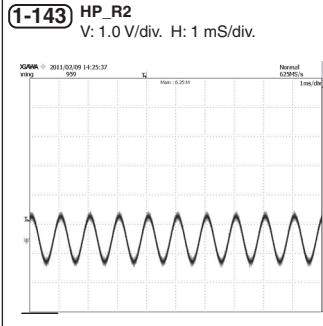
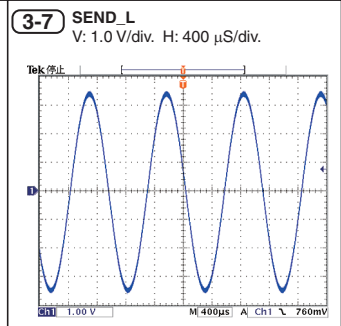
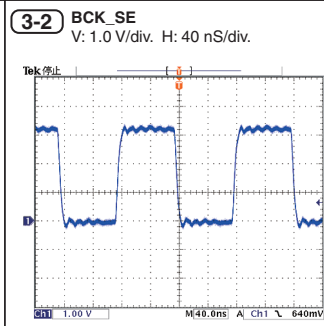
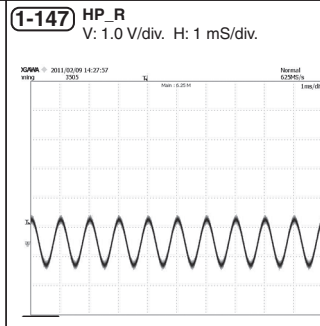
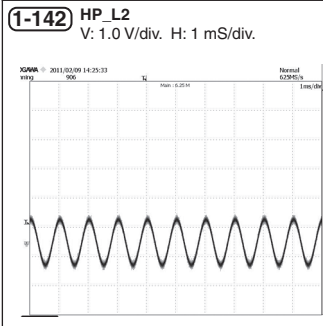
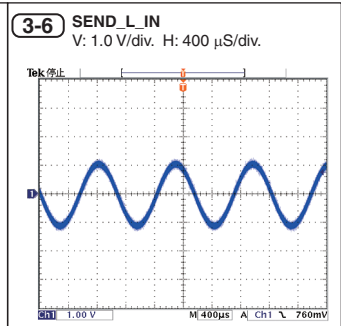
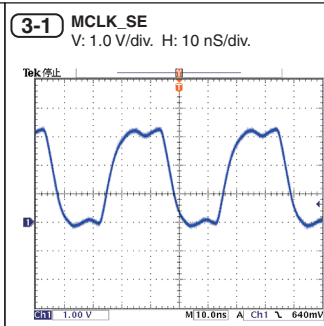
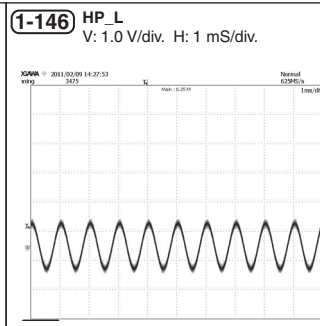
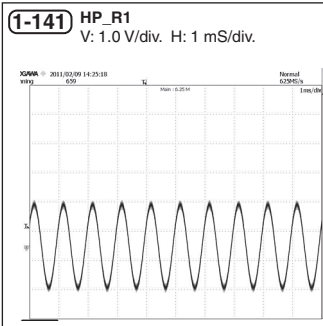
E

F

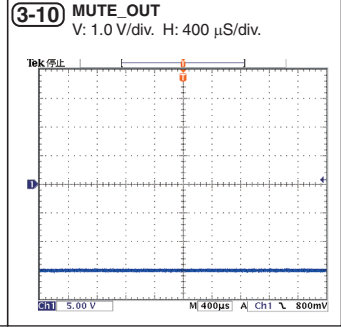
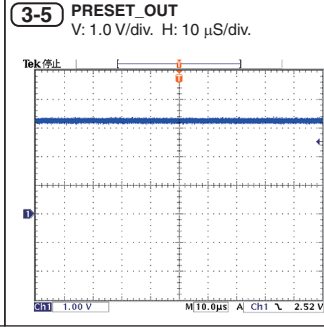
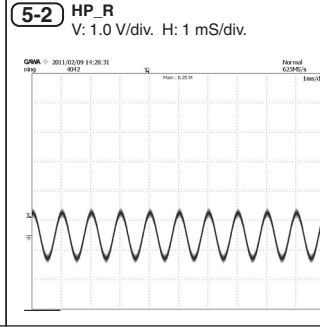
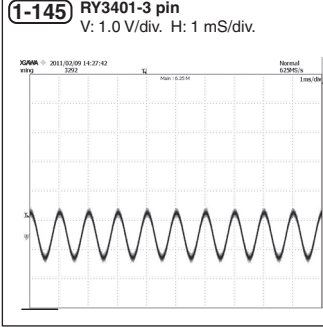
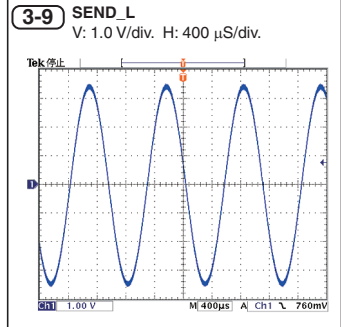
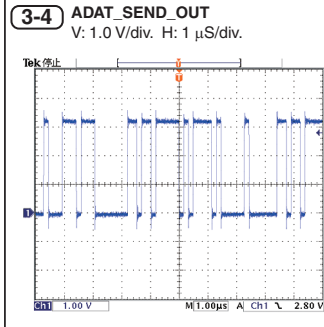
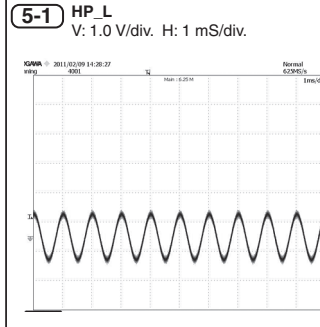
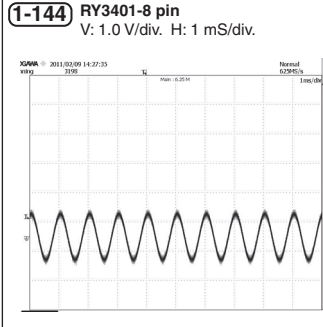


G MAIN ASSY

J SEND ASSY

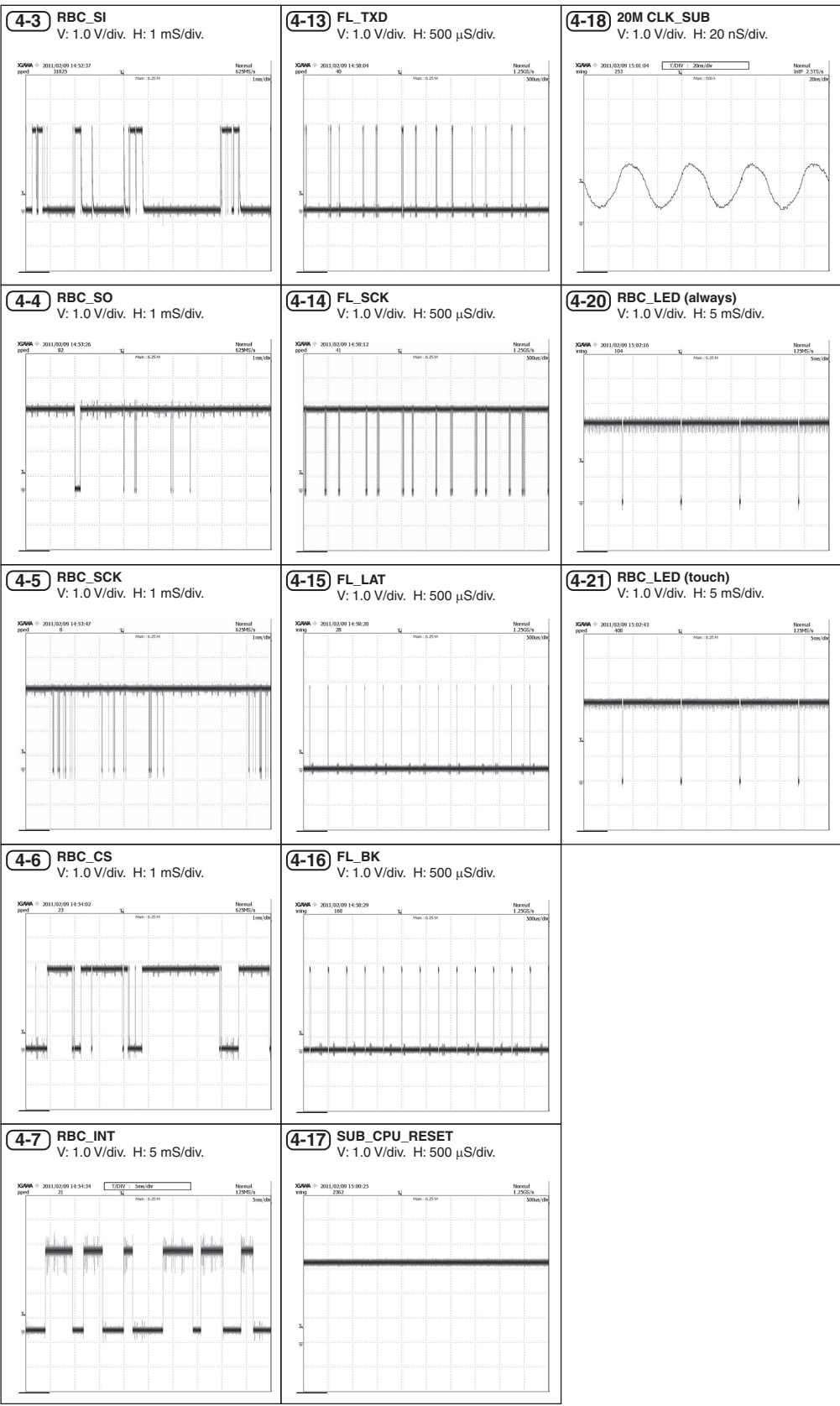


I HPJK ASSY



A
B
C
D
E
F

K PNL A ASSY





5



6



7



8



A



B



C



D



E



F



5



6

DJM-900NXS



7

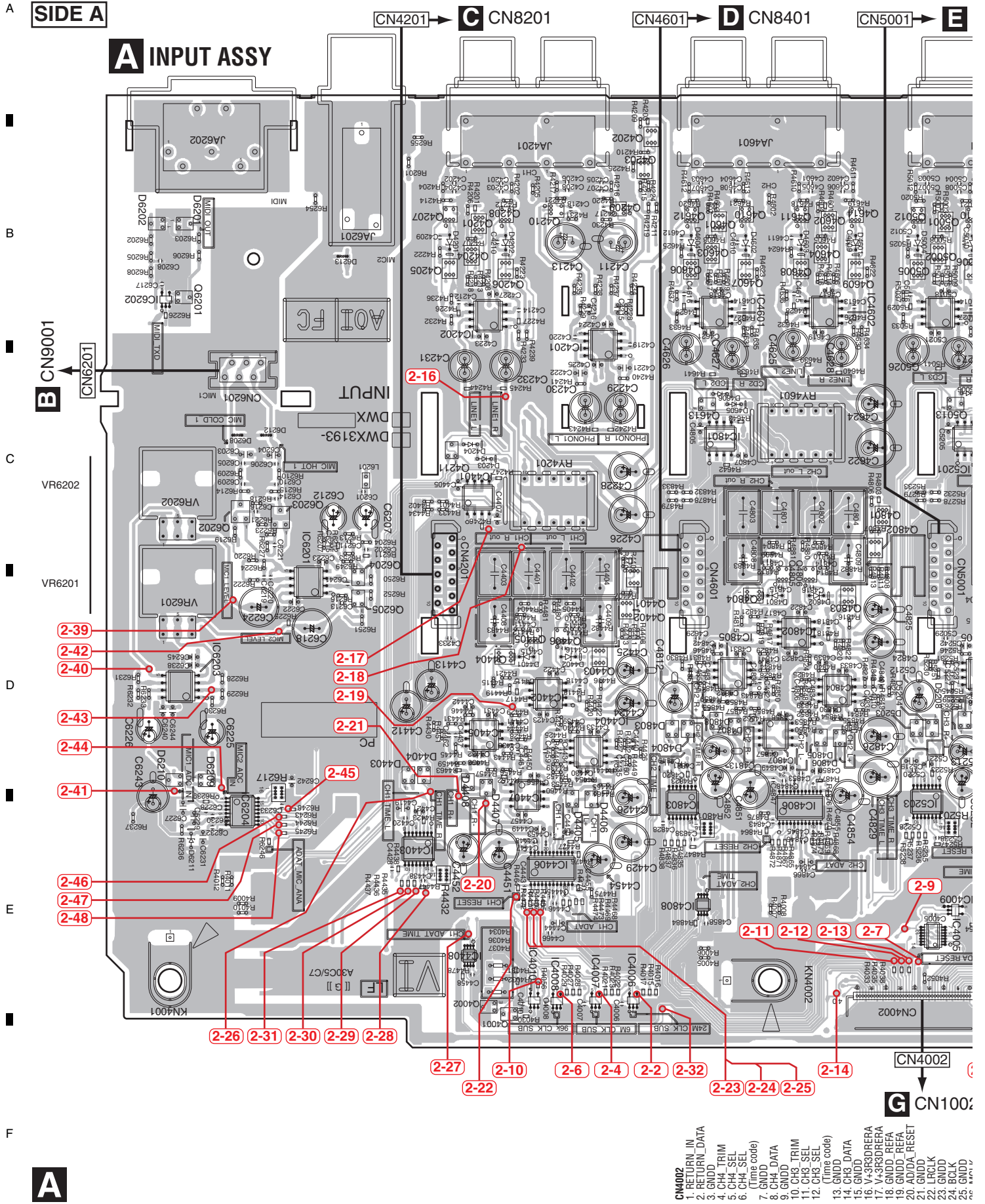


8



11. PCB CONNECTION DIAGRAM

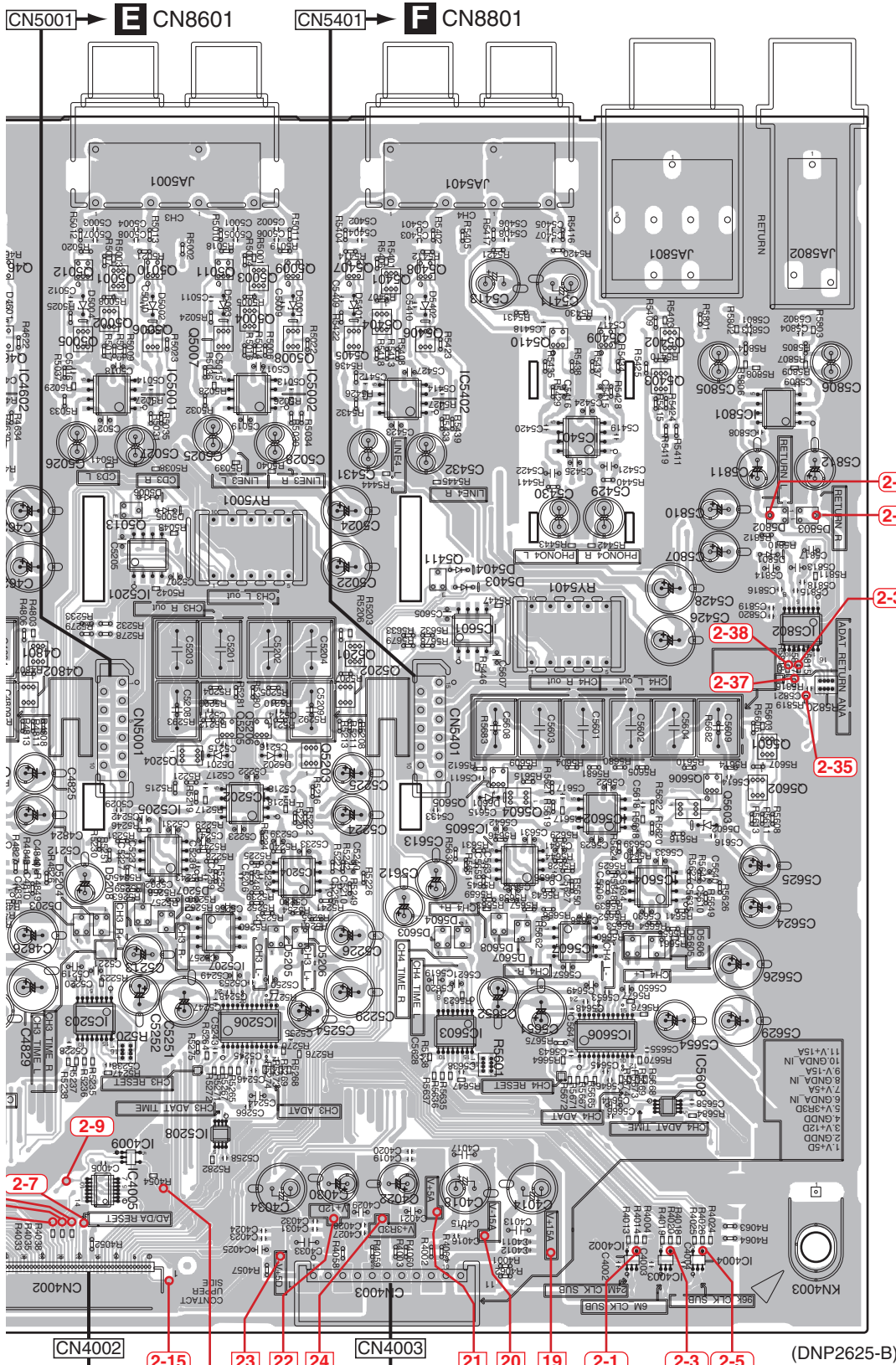
11.1 INPUT ASSY



SIDE A

A

- : Voltage measuring point
- : Waveform measuring point



| | | | |
|--------|--------|--------|--------|
| Q4201 | Q4614 | Q5001 | Q5401 |
| Q4210 | Q4612 | Q5012 | |
| Q6201 | IC4601 | IC5001 | Q5410 |
| IC4202 | IC4602 | IC5002 | IC5402 |
| IC4201 | | | IC5801 |
| | | | IC5401 |
| | Q4613 | Q5013 | |
| Q4211 | IC4801 | IC5201 | Q5411 |
| IC4401 | | | IC5601 |
| Q6202 | Q4801 | Q5201 | IC5802 |
| Q6203 | | | |
| | Q4401 | Q5206 | Q5601 |
| Q6204 | IC4802 | IC5202 | Q5606 |
| IC6201 | IC4805 | IC5205 | IC5602 |
| Q6205 | IC4804 | IC5204 | IC5604 |
| | IC4405 | IC4807 | IC5207 |
| | IC4404 | | IC5607 |
| | IC4407 | IC4803 | IC5603 |
| IC6204 | IC4806 | IC5206 | IC5606 |
| | IC5203 | | |
| | IC4403 | | IC5608 |
| | IC4406 | | |
| | | | IC5206 |
| | IC4808 | | |
| | IC4005 | | |
| | IC4408 | | IC4002 |
| | | | IC4003 |
| | | | IC4004 |

B

C

D

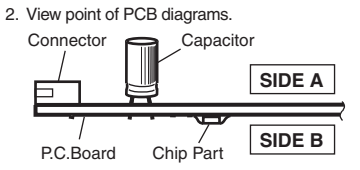
E

F

- 16. V+3R3DRERA
- 17. V+3R3DRERA
- 18. GND0_REFA
- 19. GND0_REFB
- 20. AD/DA_RESET
- 21. GND0
- 22. LRCLK
- 23. GND0
- 24. BCLK
- 25. GND0
- 26. MCLK
- 27. GND0
- 28. CH2_DATA
- 29. CH2_SEL
- 30. CH2_SEL (Time code)
- 31. GND0
- 32. CH2_DATA
- 33. GND0
- 34. CH1_TRIM
- 35. CH1_SEL
- 36. CH1_SEL (Time code)
- 37. GND0
- 38. CH1_DATA
- 39. MIC_DATA
- 40. MIDI_TXD

NOTE FOR PCB DIAGRAMS :

1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.



SIDE B

A

B

C

D

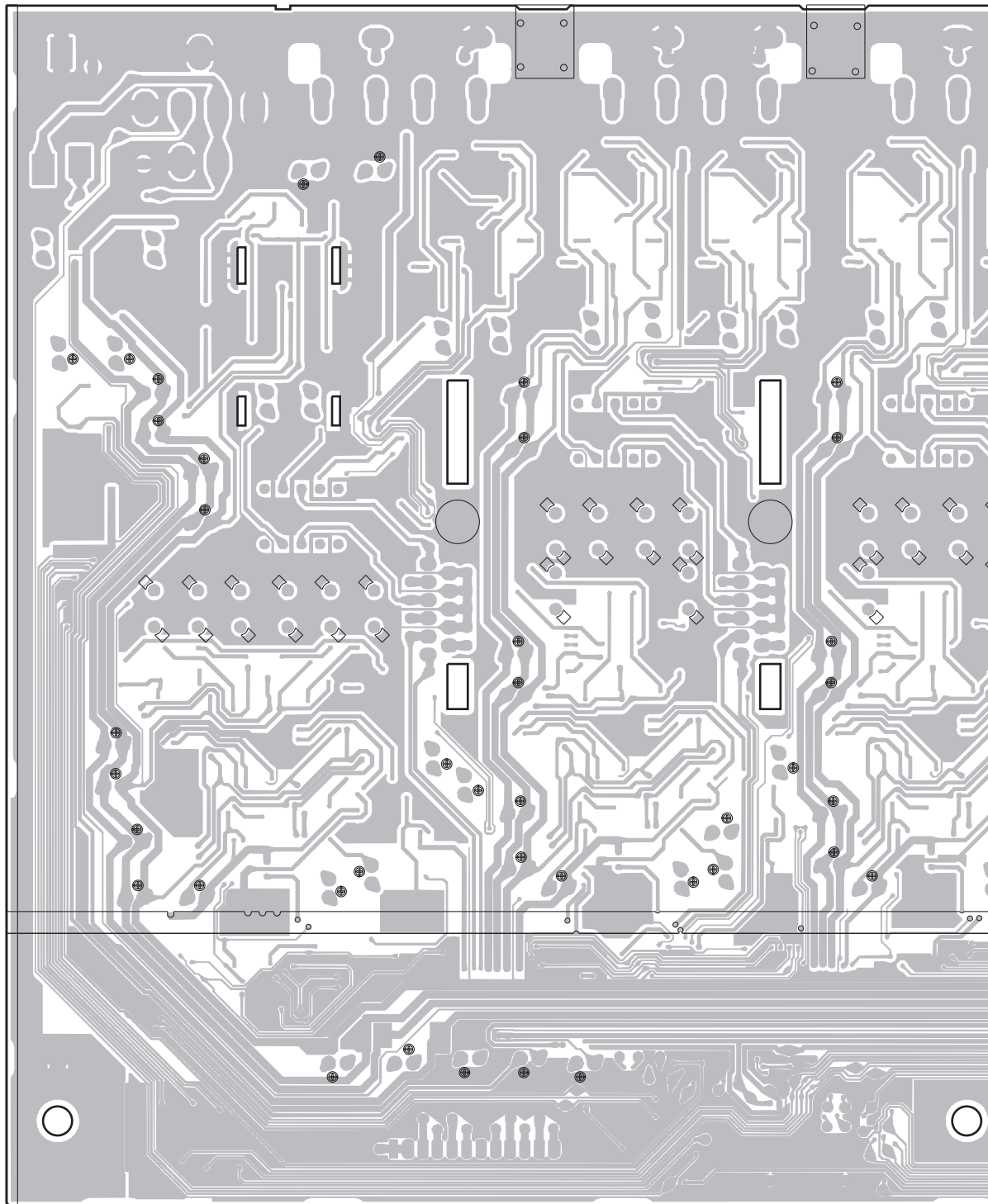
E

F

A INPUT ASSY

CN5401

CN5001



CN4003

CN4002

A

SIDE B

A

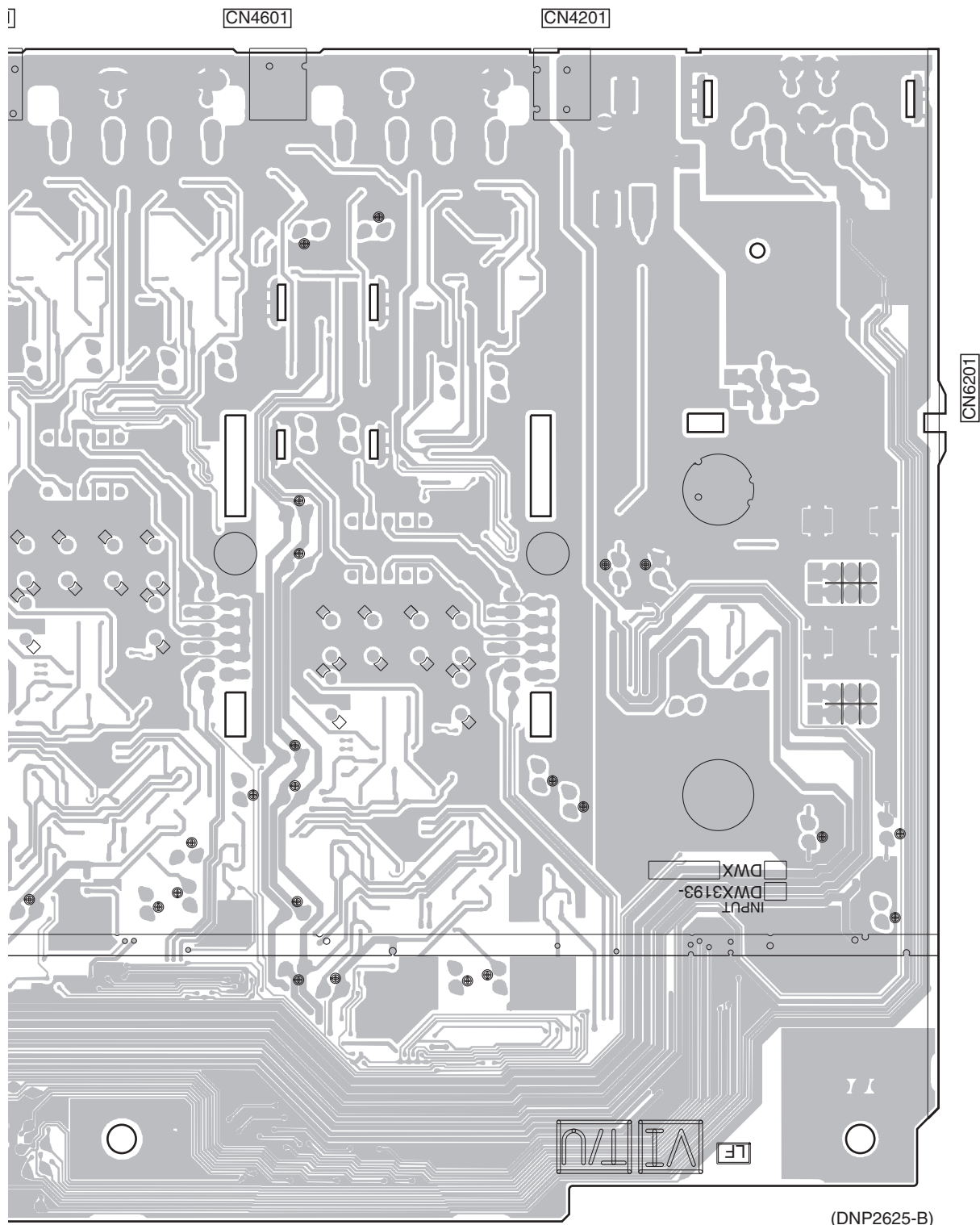
B

C

D

E

F



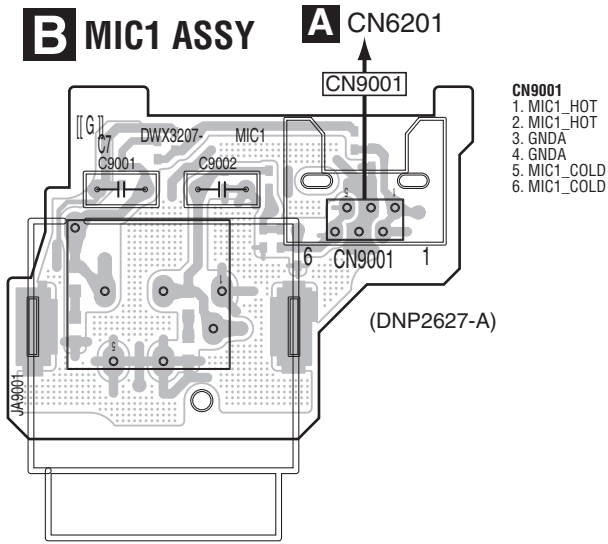
(DNP2625-B)

11.2 MIC1 and TRM1 to TRM4 ASSYS

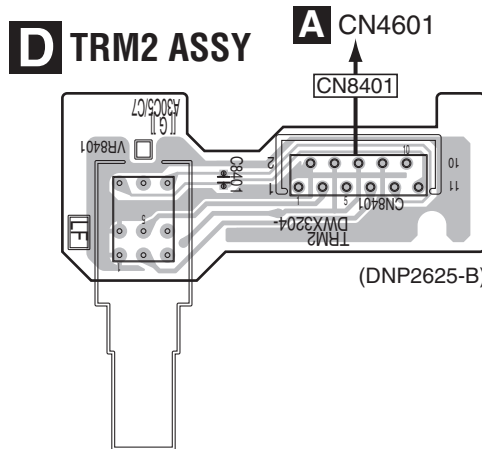
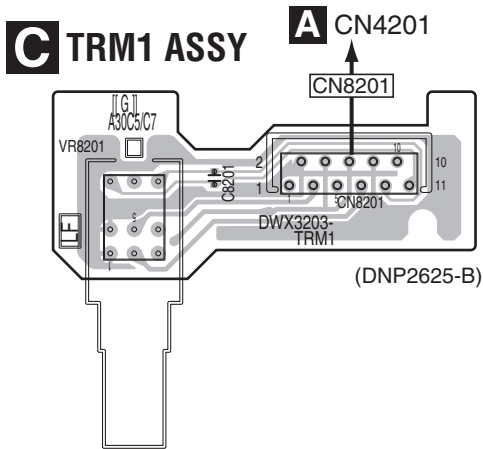
SIDE A

SIDE A

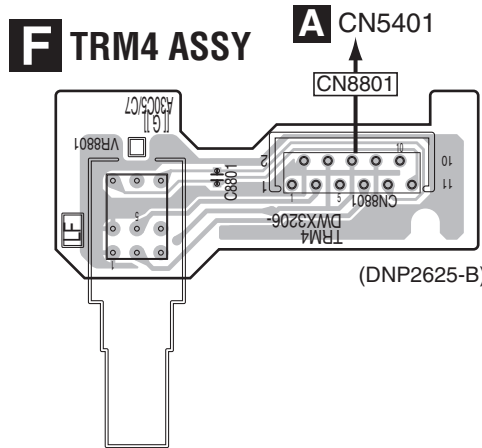
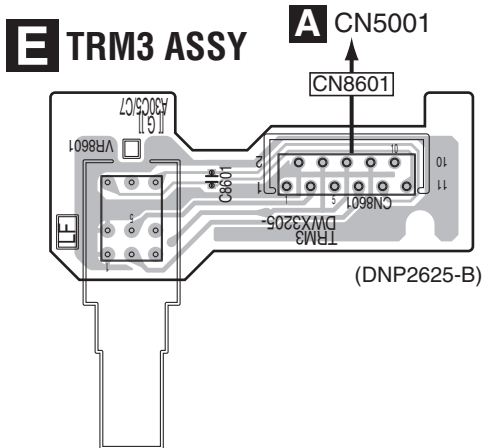
A



C



D



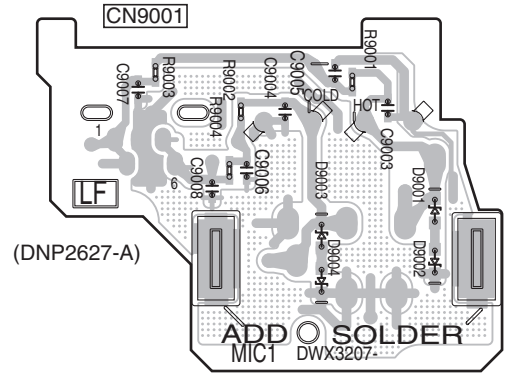
F

B C D E F

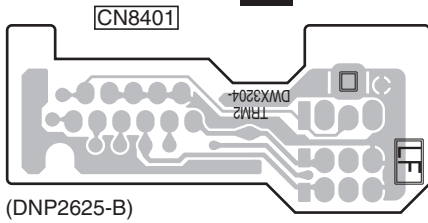
SIDE B

SIDE B

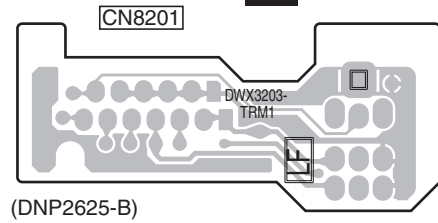
B MIC1 ASSY



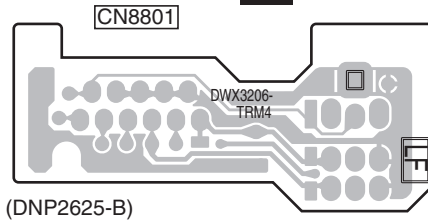
D TRM2 ASSY



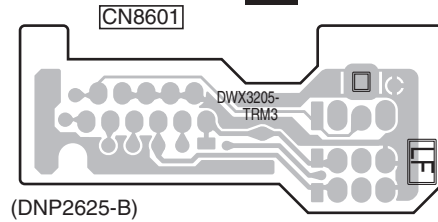
C TRM1 ASSY



F TRM4 ASSY



E TRM3 ASSY



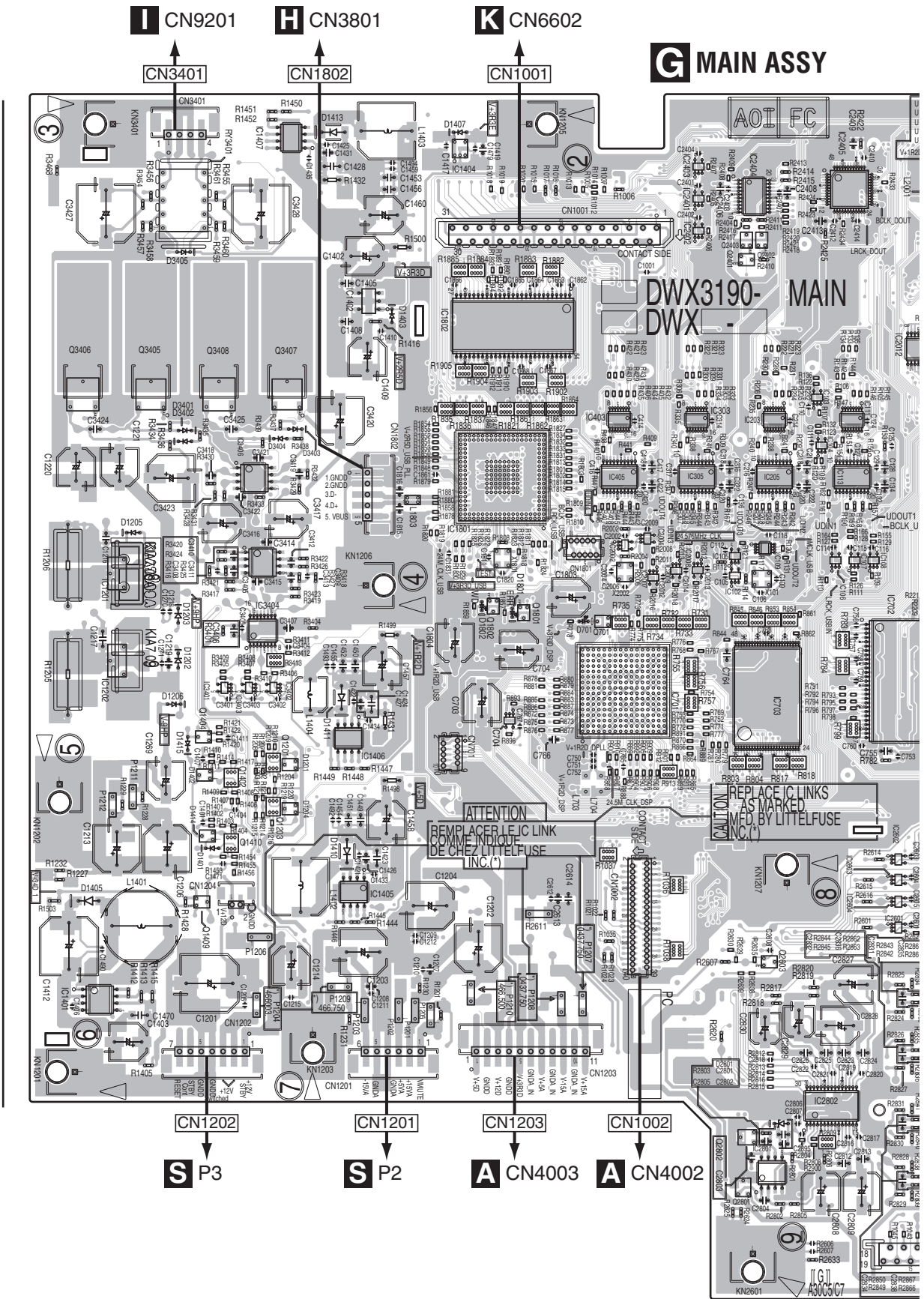
B C D E F

11.3 MAIN ASSY

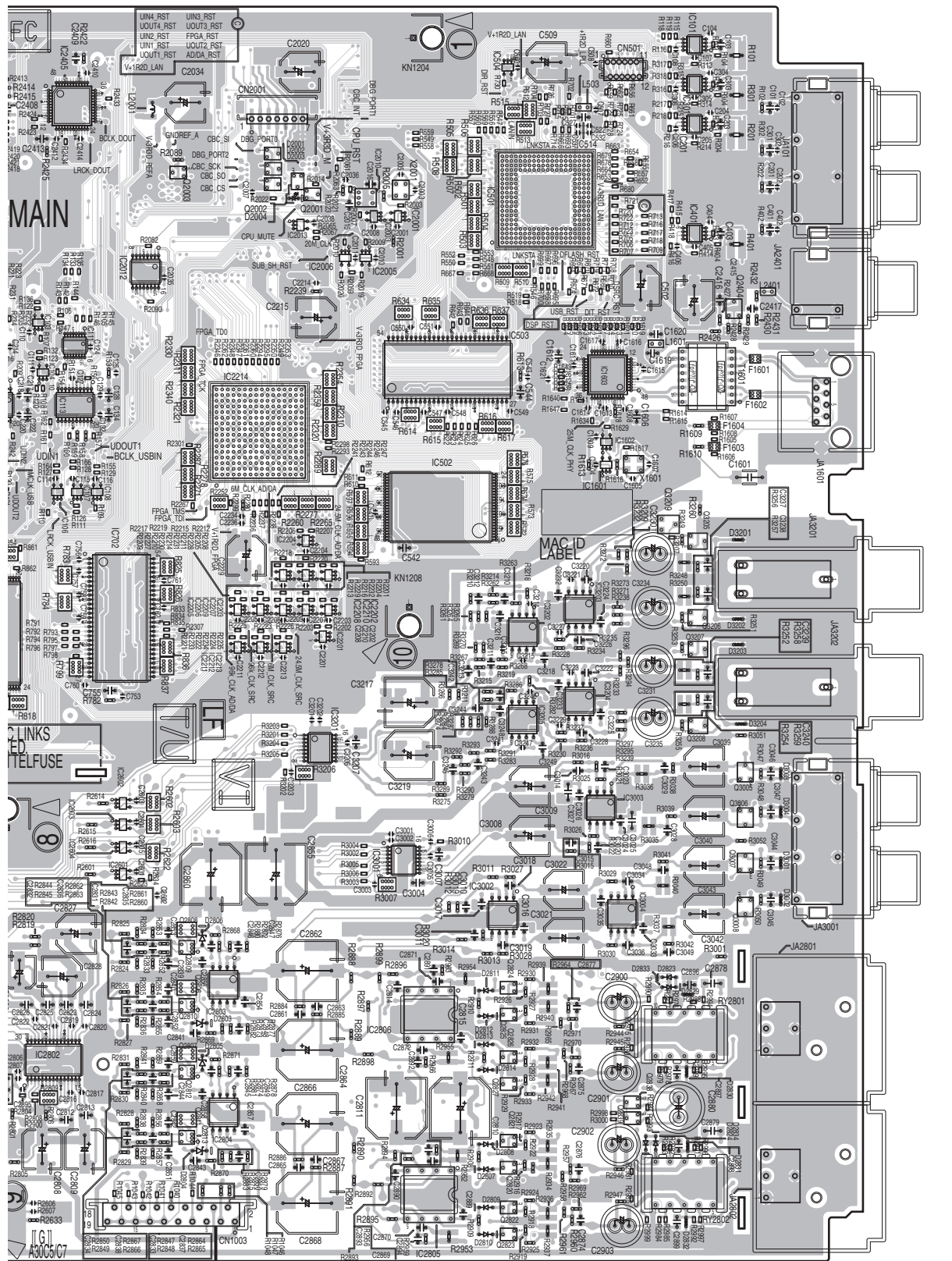
SIDE A

A
B
C
D
E
F

- IC1407
- IC1404
- IC2403
- IC2401
- IC2402
- IC1402
- IC1802
- Q3405 Q3407
- Q3406 Q3408
- IC303
- IC403
- IC3406
- IC305
- IC1801
- IC405
- IC2004
- IC2002
- IC3405
- IC2009
- IC2008
- IC2007
- Q1802
- Q1801
- Q701
- IC1202
- IC701
- IC704
- Q1404
- IC1406
- Q1402
- Q1203
- Q1410
- Q1409
- IC1405
- IC1401



SSY



| |
|--------|
| IC101 |
| IC504 |
| IC301 |
| IC2404 |
| IC2405 |
| IC201 |
| Q2402 |
| Q2403 |
| Q2401 |
| Q2003 |
| Q2002 |
| Q2001 |
| IC501 |
| IC2010 |
| IC2001 |
| IC2003 |
| IC2013 |
| IC401 |
| IC2006 |
| IC2005 |
| IC2012 |
| Q2404 |
| IC111 |
| IC203 |
| IC104 |
| IC503 |
| IC1603 |
| IC205 |
| IC113 |
| IC1602 |
| IC105 |
| IC1601 |
| IC109 |
| IC502 |
| IC102 |
| Q3209 |
| IC2201 |
| Q3205 |
| IC702 |
| IC3203 |
| Q3206 |
| IC703 |
| IC3202 |
| IC2213 |
| Q3207 |
| IC3204 |
| IC3205 |
| Q3208 |
| IC3201 |
| Q3005 |
| IC2602 |
| IC3003 |
| IC2603 |
| IC2604 |
| IC3001 |
| Q3007 |
| IC2601 |
| Q2603 |
| Q3008 |
| Q2808 |
| IC3002 |
| IC3004 |
| Q2809 |
| Q2806 |
| IC2803 |
| Q2824 |
| Q2810 |
| IC2806 |
| Q2825 |
| Q2807 |
| IC2802 |
| Q2812 |
| Q2802 |
| Q2827 |
| Q2838 |
| Q2811 |
| IC2804 |
| Q2839 |
| IC2801 |
| Q2813 |
| Q2821 |
| Q2801 |
| Q2820 |
| IC2805 |
| Q2822 |
| Q2823 |

CN1003

J CN6401

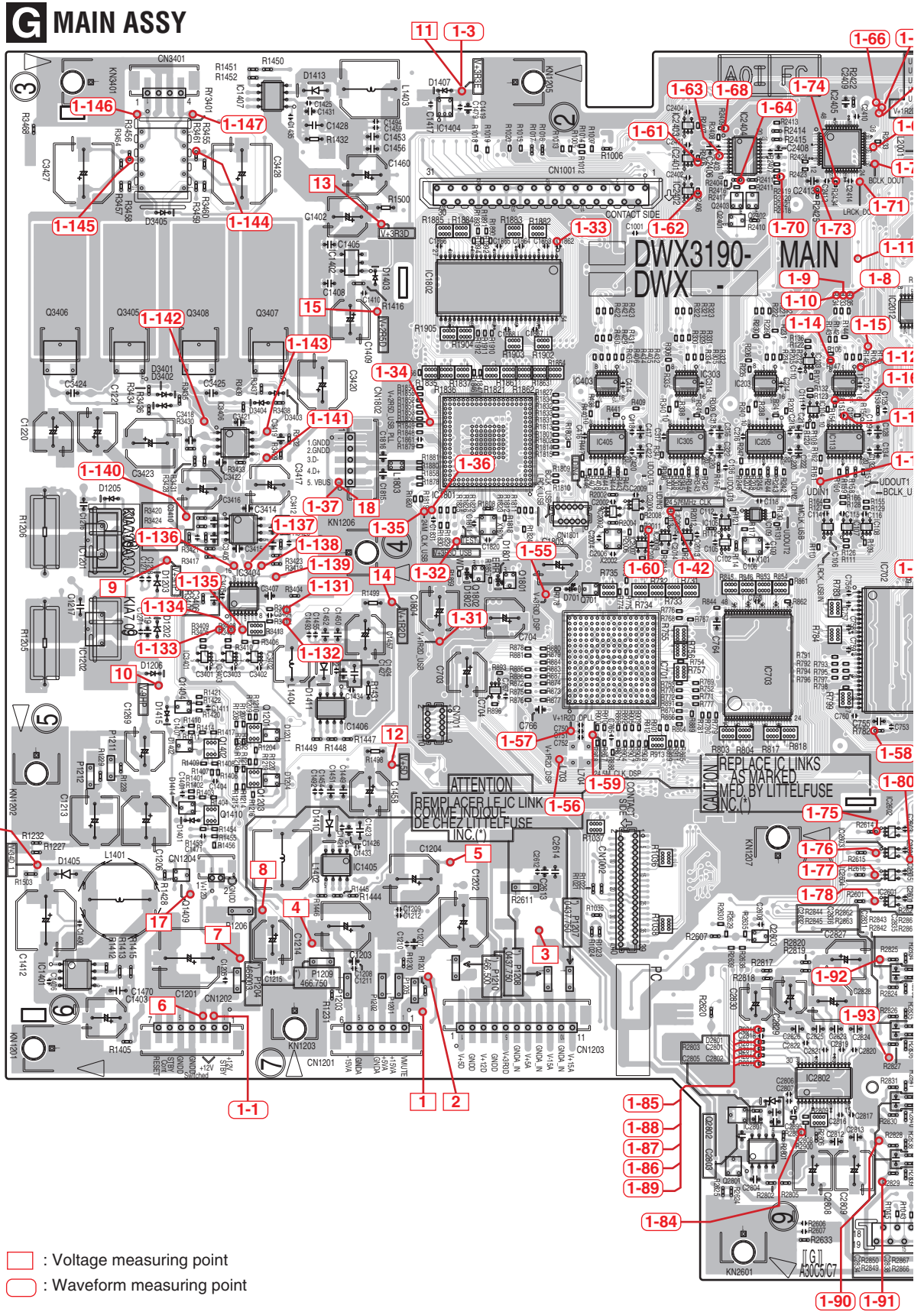
(DNP2624-B)

DJM-900XS



SIDE A

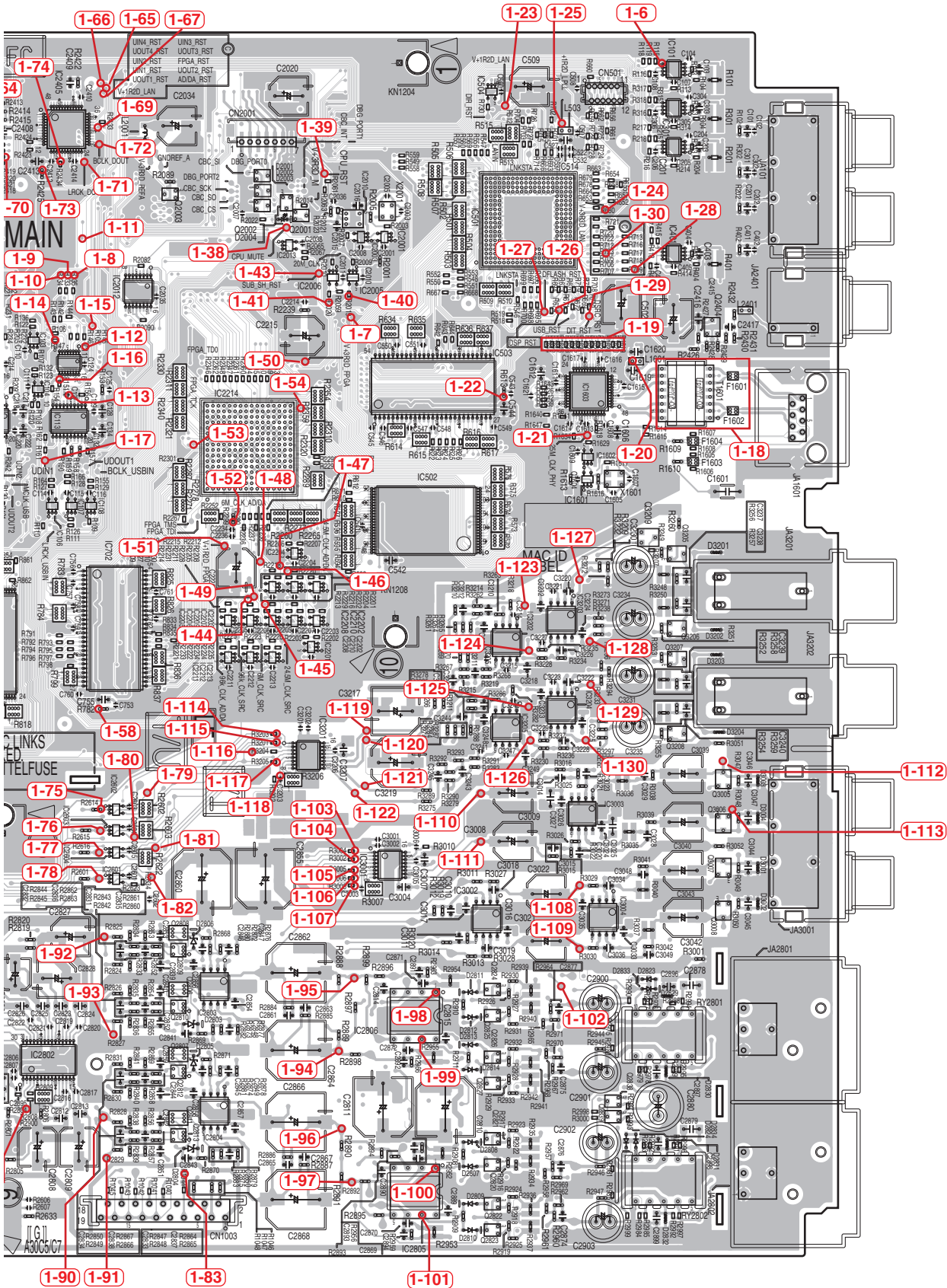
● Measuring points of waveforms and voltages



□ : Voltage measuring point
 ○ : Waveform measuring point



A
B
C
D
E
F



SIDE B

A

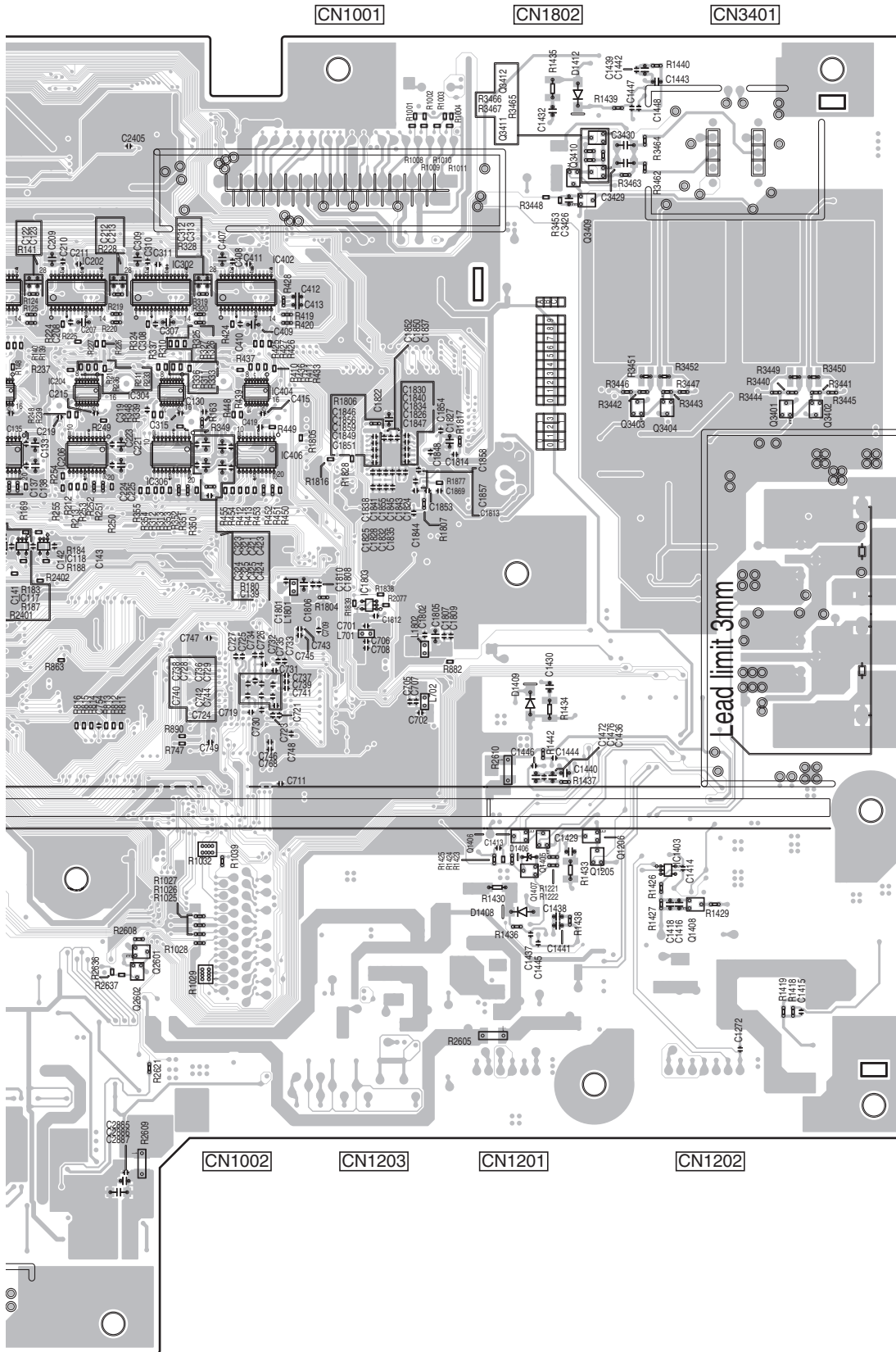
B

C

D

E

F



- Q3412
- IC505
- Q3411
- Q3410
- Q3409
- IC2011
- IC110 IC302
- IC202 IC402
- Q101 IC112 IC404 Q3401
- Q102 IC204 IC130 Q3401
- Q103 Q3404
- Q1601
- IC131 IC306
- IC206 IC406
- IC115 IC117
- IC116 IC118
- IC1803
- Q3202
- Q3210
- Q3201
- Q3211
- Q3203
- Q3212
- Q3204
- Q1405 Q1206
- Q3001 Q1205
- Q1407 IC1403
- Q3002 Q1408
- Q3003 Q2601
- Q2602
- Q3004 Q2837
- Q2832 Q2803
- Q2804
- Q2834
- Q2833
- Q2835 Q2816 Q2818
- Q2814 Q2805
- Q2830 Q2817 Q2819
- Q2815
- Q2828
- Q2829
- Q2831

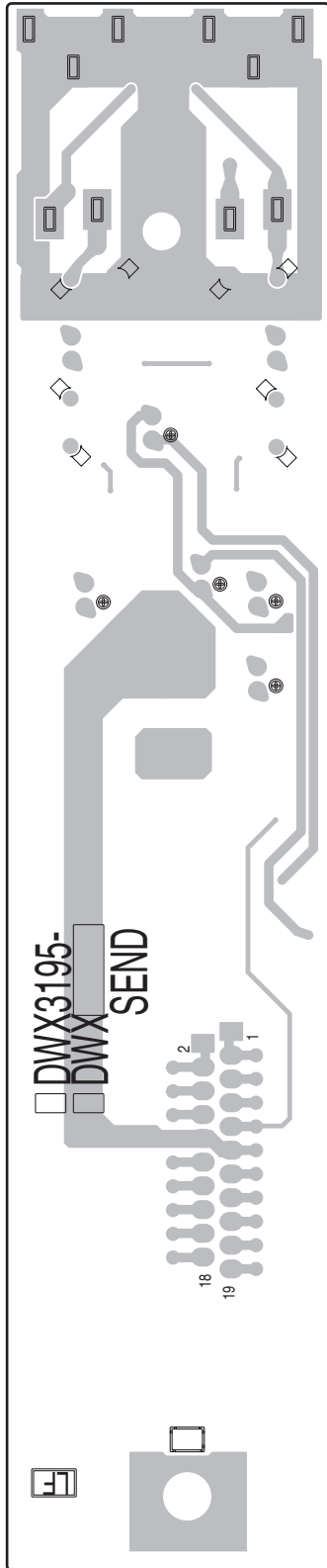


SIDE B

SIDE B

A

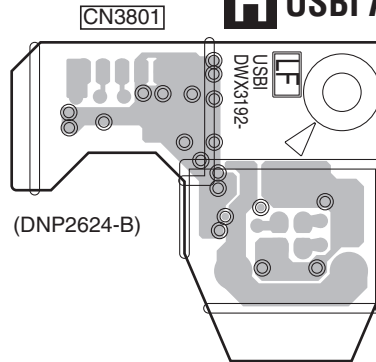
J SEND ASSY



(DNP2625-B)

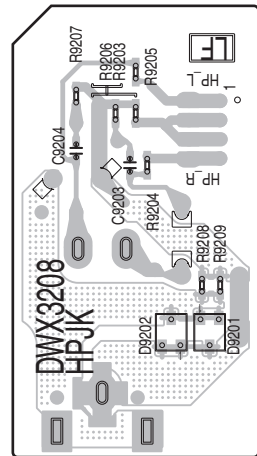
CN6401

H USBI ASSY



(DNP2624-B)

I HPJK ASSY



(DNP2627-A)

CN9201

B

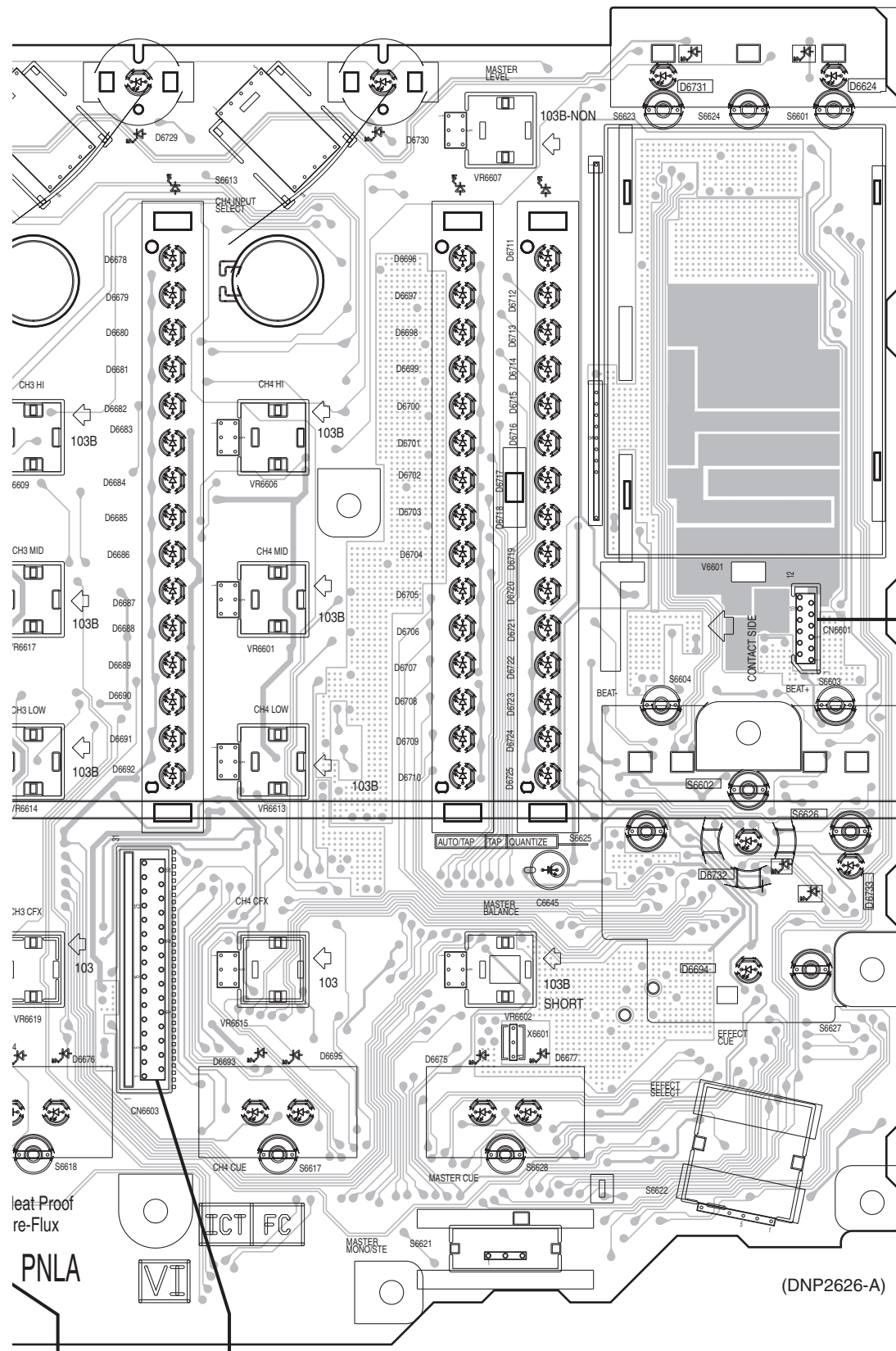
C

D

E

F

SIDE A



VR6607

VR6611 VR6609
VR6608 VR6606

VR6605

VR6618 VR6617
VR6612 VR6601

VR6612

VR6616 VR6614
VR6604 VR6613

VR6620 VR6619
VR6610 VR6615
VR6602

- CN6601**
1. GNDD
 2. RBC_INT
 3. RBC_CS
 4. GNDD
 5. RBC_SCK
 6. GNDD
 7. RBC_SO
 8. RBC_SI
 9. GNDD
 10. V+3R3
 11. RBC_LED
 12. GNDD



CN6609
3. V+3R3D_REFA_PA
2. VR_FADER4
1. GNDD_REFA_PA

SIDE B

A
B
C
D
E
F

VR6607

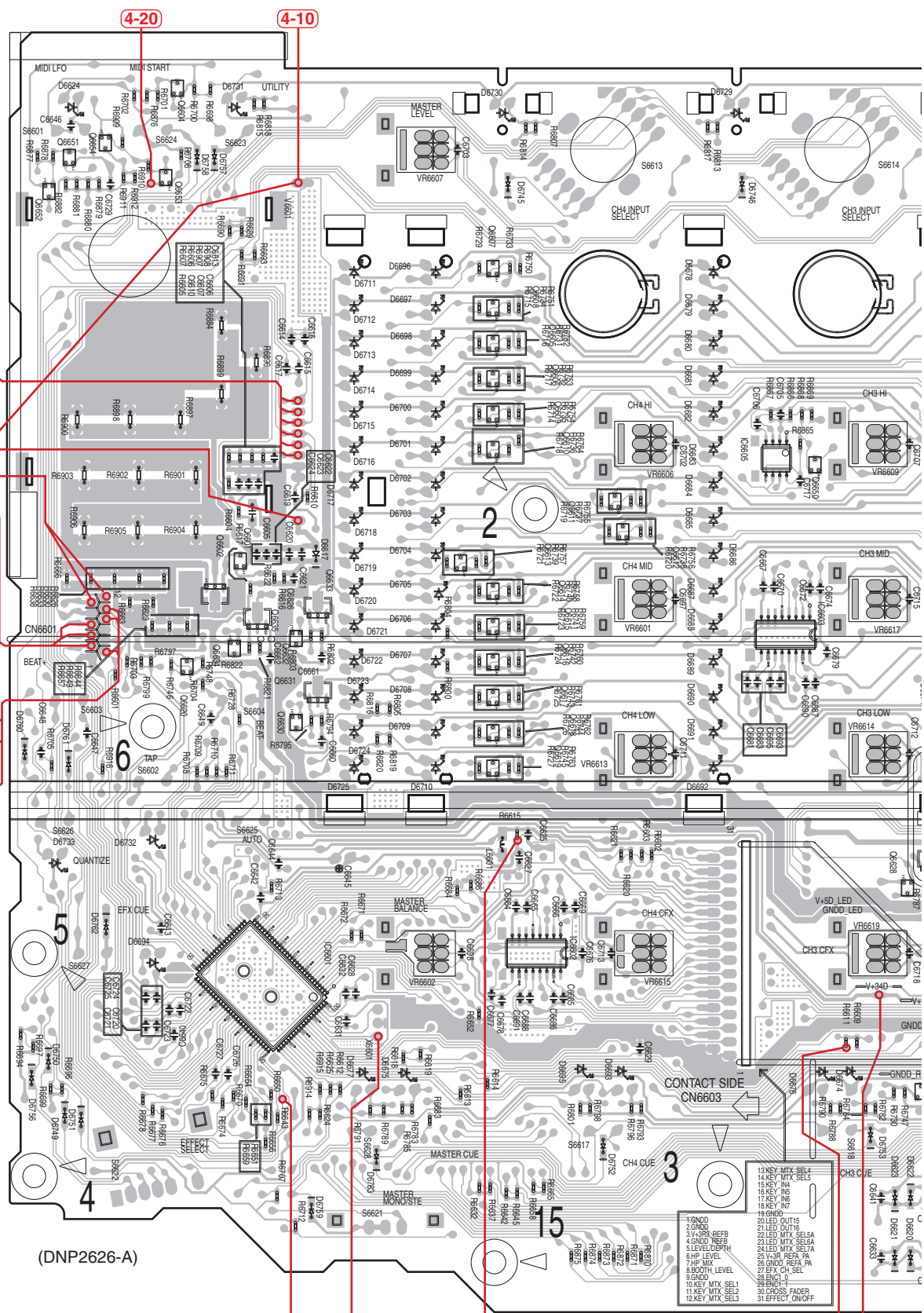
VR6606 VR6608
VR6609 VR6611

VR6605

VR6603
VR6601 VR6618
VR6617 VR6612

VR6613 VR6604
VR6614 VR6616

VR6602
VR6615 VR6610
VR6619 VR6620



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

4-20

4-10

4-21

4-18

4-19

CN6603

4-17

30

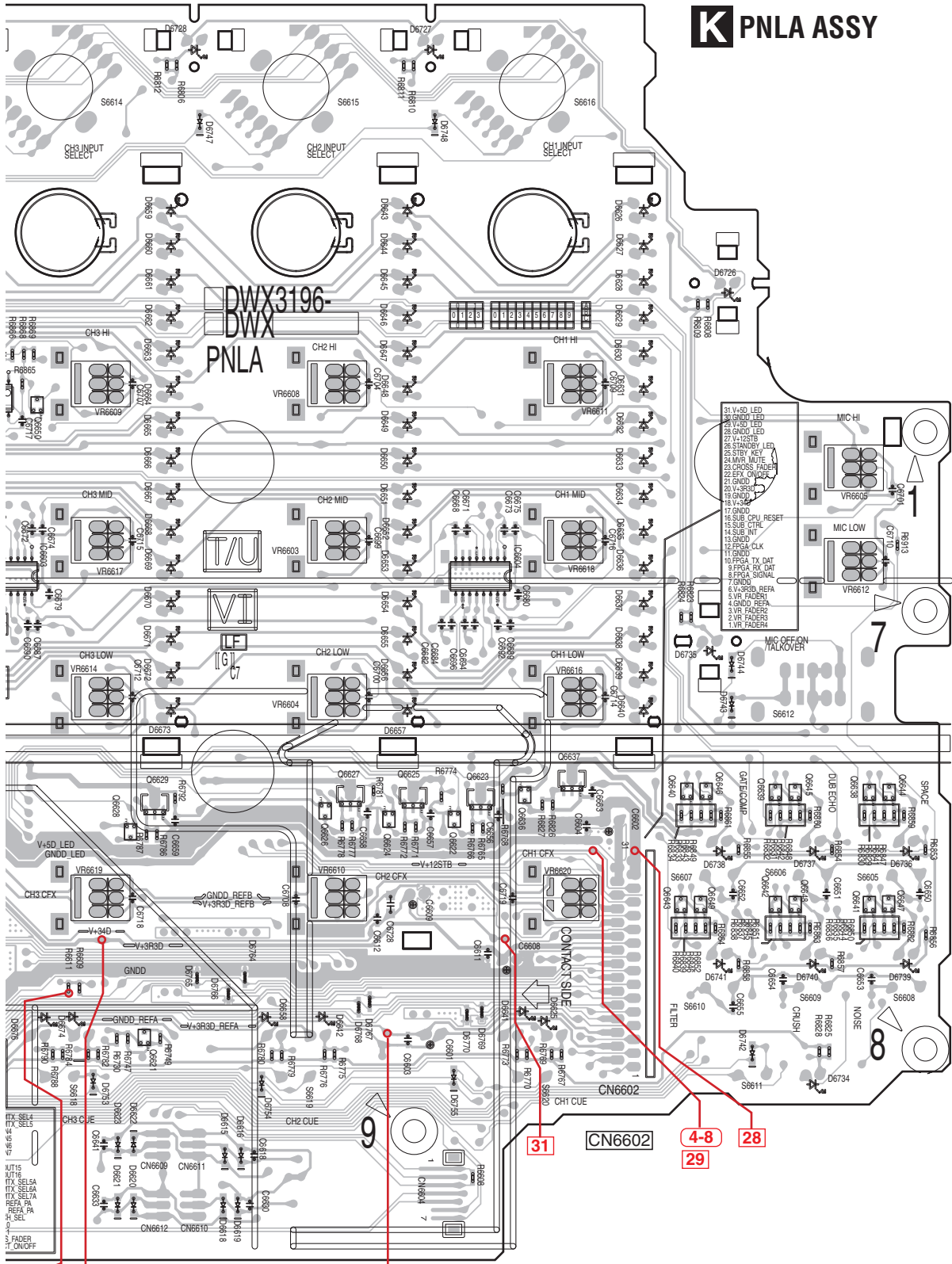
CN6600

CN6601



A
B
C
D
E
F

K PNLA ASSY



- Q6604
- Q6654
- Q6651
- Q6653
- Q6652
- Q6607
- Q6608
- Q6605
- Q6606
- Q6609
- Q6610
- IC6605
- Q6650
- Q6611
- Q6612
- Q6601
- Q6613
- Q6602
- Q6614
- Q6633
- Q6635
- Q6615
- IC6603
- IC6604
- Q6620
- Q6616
- Q6617
- Q6618
- Q6619
- Q6622
- Q6637
- Q6638
- Q6629
- Q6627
- Q6628
- IC6602
- IC6601
- Q6649
- Q6621

- 4-17
- 30
- CN6609
- CN6611
- CN6612
- CN6610

32

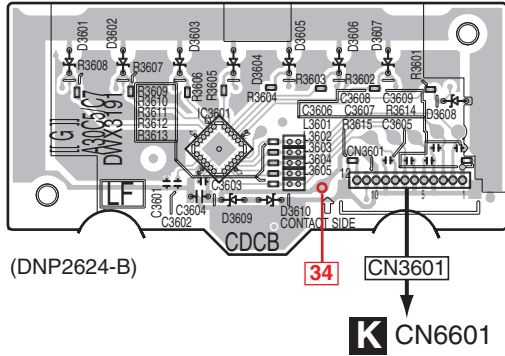
- 31
- CN6602
- 4-8
- 28
- 29

11.6 CDCB and FAD1 to FAD4 ASSYS

SIDE A

SIDE A

L CDCB ASSY



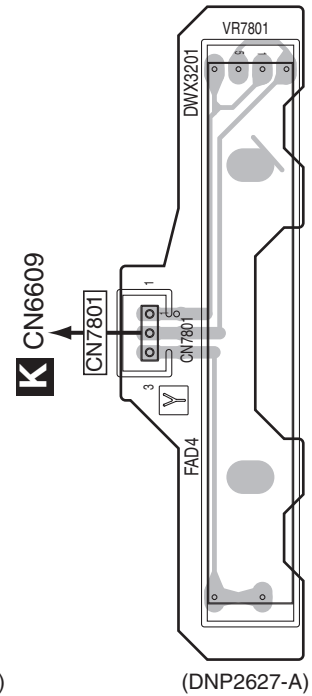
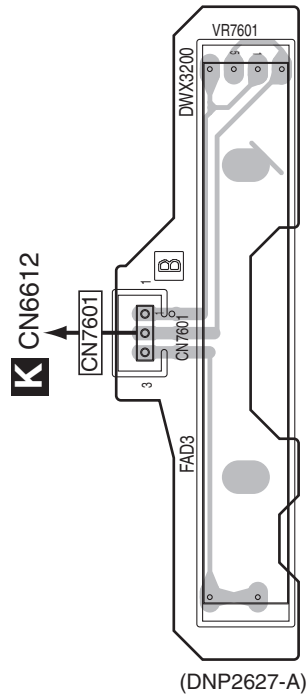
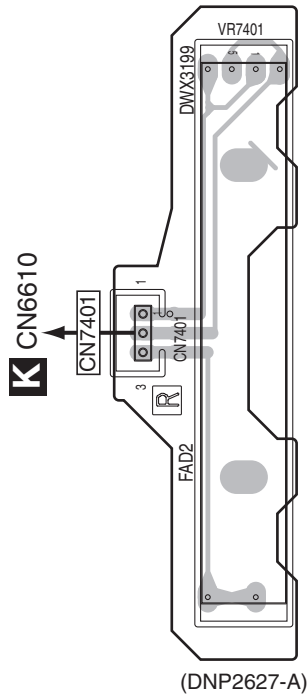
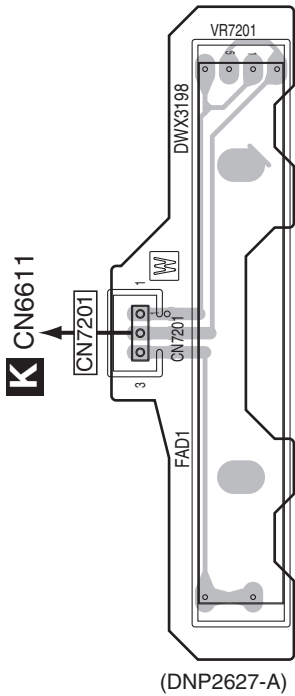
 : Voltage measuring point

M FAD1 ASSY

N FAD2 ASSY

O FAD3 ASSY

P FAD4 ASSY



L M N O P

SIDE B

SIDE B

A

B

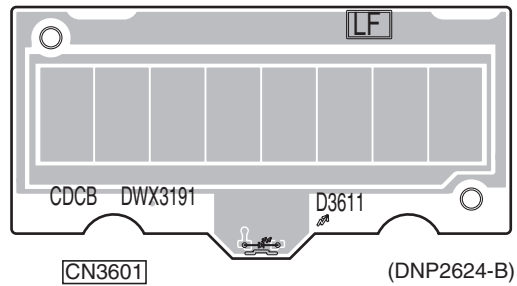
C

D

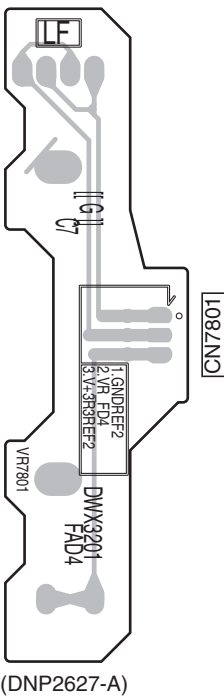
E

F

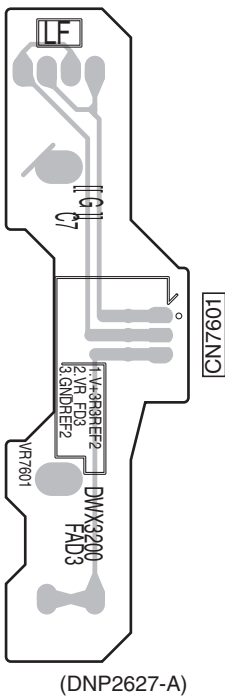
L CDCB ASSY



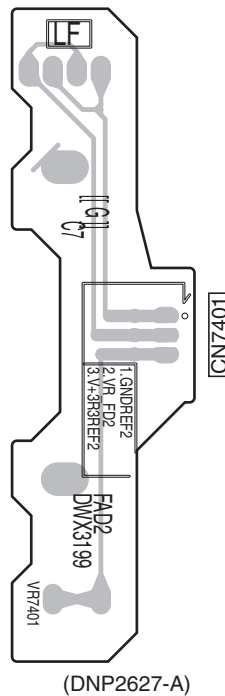
P FAD4 ASSY



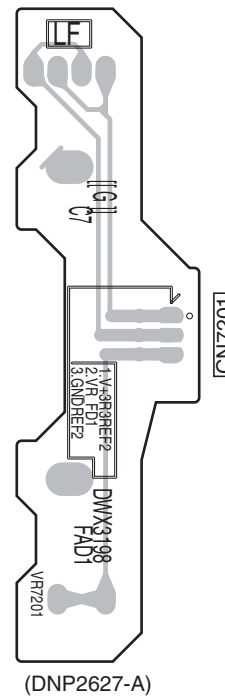
O FAD3 ASSY



N FAD2 ASSY



M FAD1 ASSY

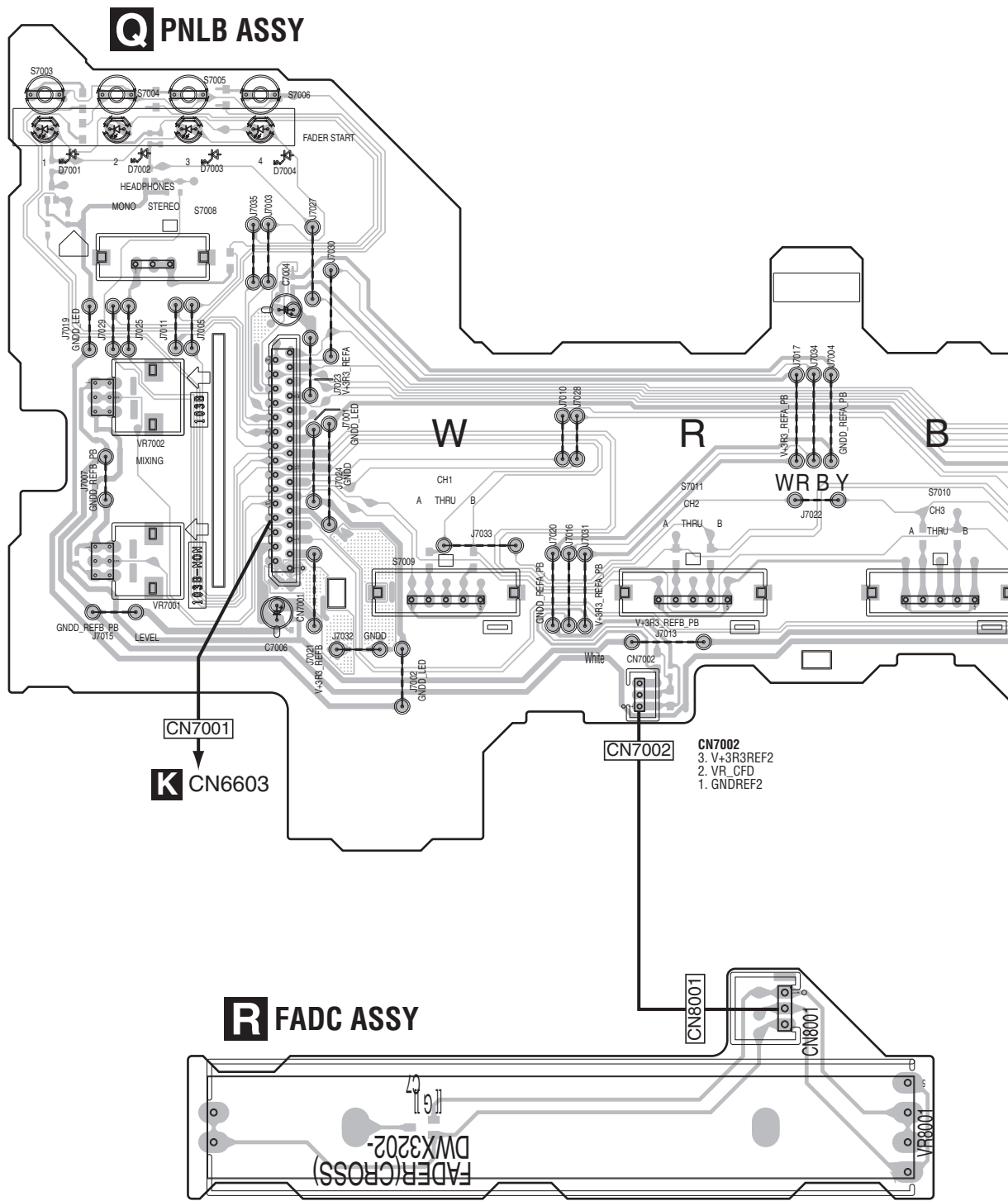


L M N O P

11.7 PNLB and FADC ASSYS

SIDE A

VR7002
VR7001



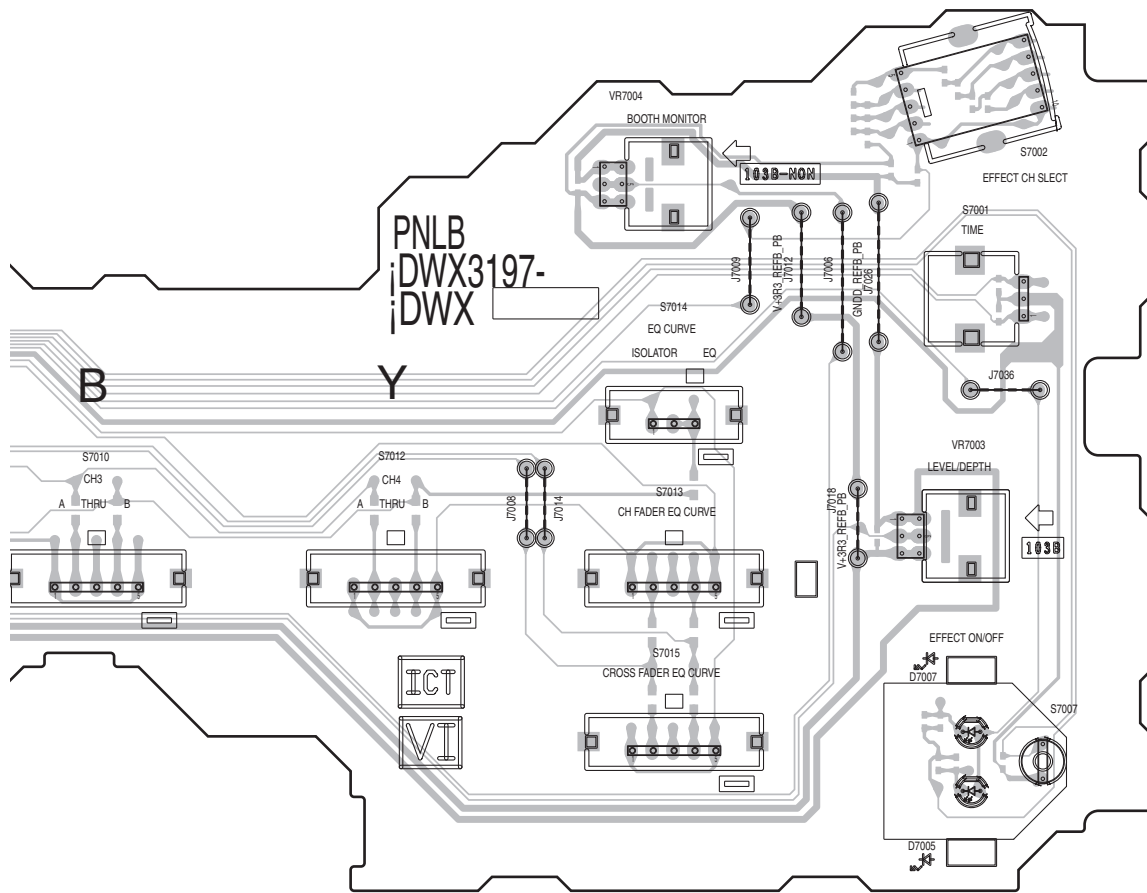
(DNP2627-A)

Q R

SIDE A

VR7004

VR7003



(DNP2627-A)



27-A)



Q7002 Q7001

A

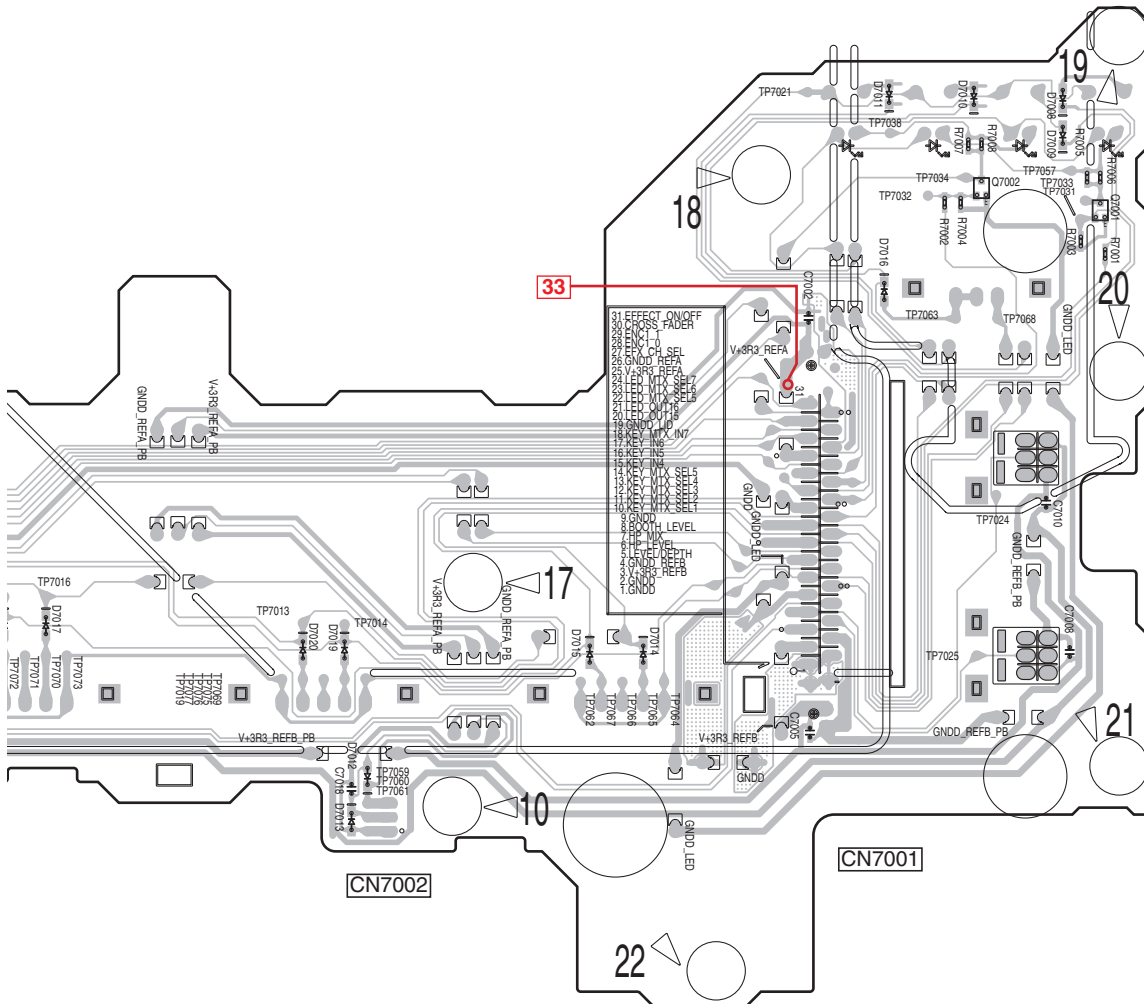
B

C

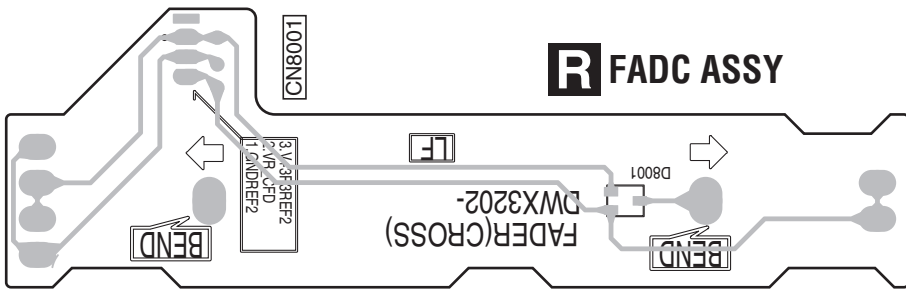
D

E

F



□ : Voltage measuring point



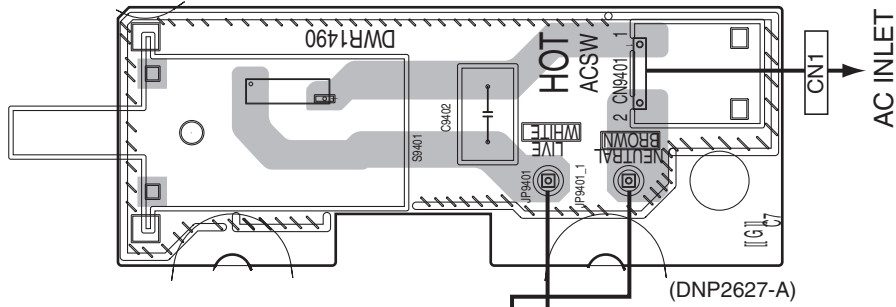
(DNP2627-A)

11.8 POWER SUPPLY and AC SW ASSYS

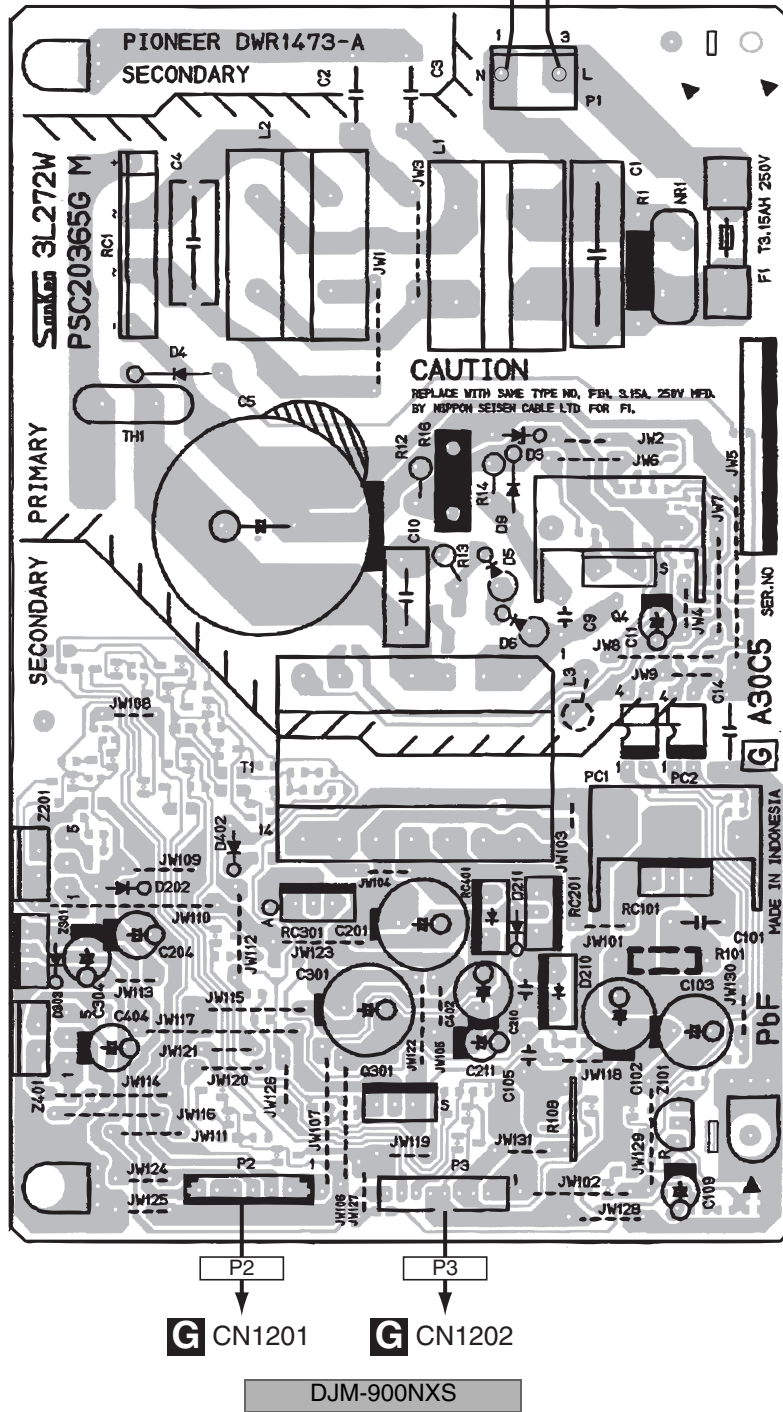
SIDE A

SIDE A

T AC SW ASSY



S POWER SUPPLY ASSY



S T

G CN1201

G CN1202

DJM-900NXS

12. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω \rightarrow 56 $\times 10^1$ \rightarrow 561 RD1/APU $\overline{5}$ $\overline{6}$ $\overline{7}$ J

47 k Ω \rightarrow 47 $\times 10^3$ \rightarrow 473 RD1/APU $\overline{4}$ $\overline{7}$ $\overline{3}$ J

0.5 Ω \rightarrow R50 RN2H \overline{R} $\overline{5}$ $\overline{0}$ K

1 Ω \rightarrow 1R0 RS1P $\overline{1}$ \overline{R} $\overline{0}$ K

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

5.62 k Ω \rightarrow 562 $\times 10^1$ \rightarrow 5621 RN1/4PC $\overline{5}$ $\overline{6}$ $\overline{2}$ $\overline{1}$ F

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

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

IC 301 (A, 91, 111) IC NJM2068V

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|----------|-----|---------------------------|----------|------|----------------------|------------------------|------------|
| | | LIST OF ASSEMBLIES | | | | IC 5201,5207,5601,5607 | RNB4580F |
| NSP | 1.. | MOTHER ASSY | DWM2418 | IC | 5202,5204,5205,5401 | | NJM4580MD |
| | 2.. | MAIN ASSY | DWX3190 | IC | 5402,5602,5604,5605 | | NJM4580MD |
| | 2.. | GDCB ASSY | DWX3191 | IC | 5801 | | RNB4580F |
| | 2.. | USB1 ASSY | DWX3192 | IC | 5802,6204 | | AK5358AET |
| NSP | 1.. | AUDIO ASSY | DWM2419 | IC | 6201,6203 | | NJM4580MD |
| | 2.. | INPUT ASSY | DWX3193 | IC | 6202 | | TC7S04FU |
| | 2.. | SEND ASSY | DWX3195 | Q | 4001,4002 | | LSC4081UB |
| | 2.. | TRM1 ASSY | DWX3203 | Q | 4201-4206,4401-4404 | | HN1C01FU |
| | 2.. | TRM2 ASSY | DWX3204 | Q | 4207-4210,4405,4406 | | 2SK3320 |
| | 2.. | TRM3 ASSY | DWX3205 | Q | 4211,4613,5013,5411 | | LTC124EUB |
| | 2.. | TRM4 ASSY | DWX3206 | Q | 4601-4604,4606-4609 | | HN1C01FU |
| NSP | 1.. | SUB ASSY | DWM2420 | Q | 4610-4612,4614,4805 | | 2SK3320 |
| | 2.. | ACSW ASSY | DWR1490 | Q | 4801-4804,5001-5008 | | HN1C01FU |
| | 2.. | PNLB ASSY | DWX3197 | Q | 4806,5009-5012,5205 | | 2SK3320 |
| | 2.. | FAD1 ASSY | DWX3198 | Q | 5201-5204,5401-5406 | | HN1C01FU |
| | 2.. | FAD2 ASSY | DWX3199 | Q | 5206,5407-5410,5605 | | 2SK3320 |
| | 2.. | FAD3 ASSY | DWX3200 | Q | 5601-5604 | | HN1C01FU |
| | 2.. | FAD4 ASSY | DWX3201 | Q | 5606 | | 2SK3320 |
| | 2.. | FADC ASSY | DWX3202 | Q | 6201 | | LTC124EUB |
| | 2.. | MIC1 ASSY | DWX3207 | Q | 6202,6203 | | 2SK209 |
| | 2.. | HPJK ASSY | DWX3208 | Q | 6204,6205 | | LSC4081UB |
| | 1.. | PNLA ASSY | DWX3196 | D | 4201,4202,4401,4402 | | HZU3R0(B1) |
| Δ | 1.. | POWER SUPPLY ASSY | DWR1492 | D | 4203,4204,4605,4606 | | 1SS352 |
| | | | | D | 4403,4404,4803,4804 | | RB706F-40 |
| | | | | D | 4405-4408,4805-4808 | | 1SS302 |
| | | | | D | 4601-4604,4801,4802 | | HZU3R0(B1) |
| | | | | D | 5001-5004,5201,5202 | | HZU3R0(B1) |
| | | | | D | 5005,5006,5403,5404 | | 1SS352 |
| | | | | D | 5203, 5204,5603,5604 | | RB706F-40 |
| | | | | D | 5205-5208,5605-5608 | | 1SS302 |
| | | | | D | 5401,5402,5601,5602 | | HZU3R0(B1) |
| | | | | D | 5802,5803 | | RB706F-40 |
| | | | | D | 6201,6202 | | 1SS302 |
| | | | | D | 6209,6210 | | RB706F-40 |

Mark No. Description Part No.

A

INPUT ASSY

SEMICONDUCTORS

| | |
|------------------------|-------------|
| IC 4002-4004,4006-4010 | TC7SH08FUS1 |
| IC 4005 | TC74VHC74FK |
| IC 4201,4202,4402,4404 | NJM4580MD |
| IC 4401,4407,4801,4807 | RNB4580F |
| IC 4403,4803,5203,5603 | AK5358AET |
| IC 4405,4601,4602,4802 | NJM4580MD |
| IC 4406,4806,5206,5606 | CS5381-KZ |
| IC 4408,4808,5208,5608 | TC7WH157FK |
| IC 4804,4805,5001,5002 | NJM4580MD |

MISCELLANEOUS

| | |
|-----------------------------|---------|
| L 6201 FERRITE CORE | VTF1093 |
| JA 4201,4601,5001,5401 JACK | DKB1083 |
| JA 5801 HEADPHONE JACK | XKB3066 |
| JA 5802,6201 MIC JACK | DKN1614 |
| JA 6202 CONNECTOR | DKN1188 |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|------------------------|--------------------|------------|------|---------------------|-------------|---------------|
| A | KN 4001-4003 | EARTH TERMINAL | AKF7002 | R | 5219-5222,5233,5279 | | RN1/16SE2001D |
| | VR 6201,6202 | ROTARY VR | DCS1072 | R | 5232,5278,5632,5678 | | RN1/16SE1202D |
| | RY 4201,4601,5001,5401 | RELAY | VSR1008 | R | 5239,5241,5243,5245 | | RN1/16SE2200D |
| | CN 4002 | FFC CONNECTOR | VKN1811 | R | 5240,5242,5244,5246 | | RN1/16SE4300D |
| | CN 4003 | L-PLUG (11P) | KM200NA11L | R | 5248-5251,5648-5651 | | RN1/16SE6800D |
| | CN 4201,4601,5001,5401 | 11P PLUG | XKP3065 | R | 5252,5255,5256,5259 | | RN1/16SE3300D |
| | CN 6201 | CONNECTOR | CKS3561 | R | 5253,5254,5257,5258 | | RN1/16SE1001D |
| | 0 | SHIELD CASE (MIDI) | DNH2736 | R | 5292,5293,5680-5683 | | RS1/10SR0R0J |
| | | | | R | 5402,5404,5416,5417 | | RN1/16SE1000D |
| | | | | R | 5406,5606,6216,6218 | | RN1/16SE4701D |

RESISTORS

| | | | | | | | |
|-----------------------|-----------------------|---------------|---------------|---------------------|---------------------|---------------|---------------|
| B | R 4001-4003,4052 | | RS1/10SR0R0J | | | | |
| | R 4034,4036,4037 | | RS1/4SA130J | R | 5407,5607 | | RN1/16SE4301D |
| | R 4057-4062,4480-4483 | | RS1/10SR0R0J | R | 5412,5414,5420,5421 | | RN1/16SE4702D |
| | R 4202,4204,4216,4217 | | RN1/16SE1000D | R | 5415,5418,5419,5608 | | RN1/16SE4700D |
| | R 4206,4406,4604,4607 | | RN1/16SE4701D | R | 5424,5425,5624-5631 | | RN1/16SE1201D |
| | | | | R | 5432,5433,5436,5439 | | RN1/16SE1001D |
| | R 4207,4407,4605,4608 | | RN1/16SE4301D | | | | |
| | R 4208,4211,4213,4215 | | RN1/16SE4700D | R | 5434,5435,5437,5438 | | RN1/16SE2001D |
| | R 4209,4210,5409,5410 | | RN1/16SE2201D | R | 5611,5613 | | RN1/16SE4700D |
| | R 4212,4214,4220,4221 | | RN1/16SE4702D | R | 5619-5622,5633,5679 | | RN1/16SE2001D |
| R 4218,4219,4408,4411 | | RN1/16SE4700D | R | 5639,5641,5643,5645 | | RN1/16SE2200D | |
| | | | R | 5640,5642,5644,5646 | | RN1/16SE4300D | |
| C | R 4222,4223,4622-4625 | | RS1/10SR1803D | | | | |
| | R 4224,4225,4424-4431 | | RN1/16SE1201D | R | 5652,5655,5656,5659 | | RN1/16SE3300D |
| | R 4228,4229,5428,5429 | | RS1/10SR470J | R | 5653,5654,5657,5658 | | RN1/16SE1001D |
| | R 4230,4231,5430,5431 | | RS1/10SR75R0D | R | 5804,5805 | | RN1/16SE3602D |
| | R 4232,4233,4236,4239 | | RN1/16SE1001D | R | 5812,6202,6203 | | RS1/10SR0R0J |
| | | | | R | 5820,6217 | | RAB4CQ103J |
| | R 4234,4235,4237,4238 | | RN1/16SE2001D | | | | |
| | R 4240,4241,5440,5441 | | RS1/10SR7501D | R | 6204,6207 | | RN1/16SE1000D |
| | R 4401,4433,4832,4878 | | RN1/16SE1202D | R | 6205,6206 | | RS1/10SR221J |
| | R 4402,4419-4422,4434 | | RN1/16SE2001D | R | 6208-6210,6237,6255 | | RS1/10SR0R0J |
| R 4409,4410,4809,4810 | | RN1/16SE2002D | R | 6213 | | RN1/16SE3901D | |
| | | | R | 6214,6215 | | RN1/16SE1002D | |
| D | R 4412,4414,4812,4814 | | RN1/16SE1303D | | | | |
| | R 4413,4606,4609 | | RN1/16SE4700D | R | 6219,6223,6227,6249 | | RN1/16SE4701D |
| | R 4415,4416,4815,4816 | | RS1/10SR3303D | R | 6220,6222,6250,6252 | | RN1/16SE1501D |
| | R 4432,4801,5201,5601 | | RAB4CQ103J | R | 6221,6253 | | RN1/16SE3300D |
| | R 4439,4441,4443,4445 | | RN1/16SE2200D | R | 6224 | | RN1/16SE1500D |
| | | | | R | 6228,6229,6231,6232 | | RN1/16SE3900D |
| | R 4440,4442,4444,4446 | | RN1/16SE4300D | | | | |
| | R 4448-4451,4848-4851 | | RN1/16SE6800D | R | 6230,6233 | | RN1/16SE2200D |
| | R 4452,4455,4456,4459 | | RN1/16SE3300D | R | 6251 | | RN1/16SE4701D |
| | R 4453,4454,4457,4458 | | RN1/16SE1001D | Other Resistors | | | RS1/16SS###J |
| R 4475,4875,5275,5675 | | RS1/10SR5R1J | | | | | |

CAPACITORS

| | | | | | | | |
|---|-----------------------|--|---------------|---|---------------------|--|---------------|
| E | R 4610-4613,5010-5013 | | RN1/16SE1000D | C | 4002-4008,4010,4020 | | CKSSYB104K16 |
| | R 4614-4617,4808,4811 | | RN1/16SE4700D | C | 4011,4015,4019,4023 | | CGSSCH102J50 |
| | R 4618-4621,5018-5021 | | RN1/16SE4702D | C | 4013,4017 | | CKSYB104K25 |
| | R 4630-4637,4853,4854 | | RN1/16SE1001D | C | 4014,4018 | | CEHAT101M25 |
| | R 4806,5004,5007,5206 | | RN1/16SE4701D | C | 4022,4030,6243 | | CEHAT101M10 |
| | R 4807,5005,5008,5207 | | RN1/16SE4301D | C | 4024,4028,4032,4233 | | CKSSYB104K16 |
| | R 4813,5006,5009 | | RN1/16SE4700D | C | 4027,4031,4434-4437 | | CGSSCH102J50 |
| | R 4819-4822,4833,4879 | | RN1/16SE2001D | C | 4201-4204,4411,4414 | | CGSSCH101J50 |
| | R 4824-4831,5224-5231 | | RN1/16SE1201D | C | 4205,4206,5405,5406 | | CGSSCH221J50 |
| | R 4839,4841,4843,4845 | | RN1/16SE2200D | C | 4207,4208,4219,4220 | | CGSSCH331J50 |
| F | R 4840,4842,4844,4846 | | RN1/16SE4300D | C | 4209,4210,4415,4416 | | CKSSYB474K6R3 |
| | R 4852,4855,4856,4859 | | RN1/16SE3300D | C | 4211,4213,5411,5413 | | CEHAT471M6R3 |
| | R 4857,4858,5030-5037 | | RN1/16SE1001D | C | 4212,4214,4417,4418 | | CKSSYB472K50 |
| | R 4880-4883,5280,5281 | | RS1/10SR0R0J | C | 4215,4216,5415,5416 | | CKSRYB223K50 |
| | R 5014-5017,5208,5211 | | RN1/16SE4700D | C | 4217,4218,5417,5418 | | CKSSYB471K50 |
| | R 5022-5025,5422,5423 | | RS1/10SR1803D | C | 4221,4222,5421,5422 | | CFHXSQ103J16 |
| | R 5209,5210,5609,5610 | | RN1/16SE2002D | C | 4223-4225,4227,4405 | | CKSRYB104K25 |
| | R 5212,5214,5612,5614 | | RN1/16SE1303D | C | 4226,4228,4426,4429 | | CEHAZL101M25 |
| | R 5213,5408,5411,5413 | | RN1/16SE4700D | C | 4229-4232,4625-4628 | | CEANP330M16 |
| | R 5215,5216,5615,5616 | | RS1/10SR3303D | C | 4407,4422,4423 | | CKSRYB104K25 |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|---------------------|-------------|---------------|------|---------------------|-------------|--------------|
| C | 4412,4413,4812,4813 | | CEHAT100M50 | | | | |
| C | 4419,4444,4819,4844 | | DCH1201 | C | 6216,6221 | | CCSSCH471J50 |
| C | 4420,4428,4445,4446 | | CKSSYB104K16 | C | 6218,6224 | | CEJQNP100M35 |
| C | 4421,4821,5221,5621 | | CCG1205 | C | 6220 | | CKSSYB331K50 |
| C | 4424,4425,4824,4825 | | CEHAZL220M50 | C | 6222,6223,6238,6240 | | CKSRYP104K25 |
| | | | | C | 6228,6230,6232 | | CKSSYB104K16 |
| C | 4430-4433,4456,4457 | | CKSRYP104K25 | C | 6229,6231 | | DCH1201 |
| C | 4438,4838,5238,5638 | | CKSSYB103K25 | C | 6233 | | CKSSYB103K25 |
| C | 4447,4448,4847,4848 | | CKSSYB103K16 | C | 6241 | | CCSSCH331J50 |
| C | 4449,4450,4849,4850 | | CCSRCH222J50 | C | 6242 | | CKSRYP104K25 |
| C | 4451,4851,5251,5651 | | CEHAZL331M6R3 | | | | |
| | | | | | | | |
| C | 4452,4454,4852,4854 | | CEHAZL101M10 | | | | |
| C | 4453,4455,4458,4466 | | CKSSYB104K16 | | | | |
| C | 4601-4608,4811,4814 | | CCSSCH101J50 | | | | |
| C | 4609-4612,4815,4816 | | CKSSYB474K6R3 | | | | |
| C | 4613-4616,4817,4818 | | CKSSYB472K50 | | | | |
| | | | | | | | |
| C | 4617-4619,4621,4805 | | CKSRYP104K25 | | | | |
| C | 4622,4624,4826,4829 | | CEHAZL101M25 | | | | |
| C | 4629,4820,4828,4845 | | CKSSYB104K16 | | | | |
| C | 4807,4822,4823 | | CKSRYP104K25 | | | | |
| C | 4830-4833,4856,4857 | | CKSRYP104K25 | | | | |
| | | | | | | | |
| C | 4834-4837,5234-5237 | | CCSSCH102J50 | | | | |
| C | 4846,4853,4855,4858 | | CKSSYB104K16 | | | | |
| C | 4866,5029,5220,5228 | | CKSSYB104K16 | | | | |
| C | 5001-5008,5211,5214 | | CCSSCH101J50 | | | | |
| C | 5009-5012,5215,5216 | | CKSSYB474K6R3 | | | | |
| | | | | | | | |
| C | 5013-5016,5217,5218 | | CKSSYB472K50 | | | | |
| C | 5017-5019,5021,5205 | | CKSRYP104K25 | | | | |
| C | 5022,5024,5226,5229 | | CEHAZL101M25 | | | | |
| C | 5025-5028,5429-5432 | | CEANP330M16 | | | | |
| C | 5207,5222,5223 | | CKSRYP104K25 | | | | |
| | | | | | | | |
| C | 5212,5213,5612,5613 | | CEHAT100M50 | | | | |
| C | 5219,5244,5619,5644 | | DCH1201 | | | | |
| C | 5224,5225,5624,5625 | | CEHAZL220M50 | | | | |
| C | 5230-5233,5256,5257 | | CKSRYP104K25 | | | | |
| C | 5245,5246,5253,5255 | | CKSSYB104K16 | | | | |
| | | | | | | | |
| C | 5247,5248,5647,5648 | | CKSSYB103K16 | | | | |
| C | 5249,5250,5649,5650 | | CCSRCH222J50 | | | | |
| C | 5252,5254,5652,5654 | | CEHAZL101M10 | | | | |
| C | 5258,5266,5433,5620 | | CKSSYB104K16 | | | | |
| C | 5401-5404,5611,5614 | | CCSSCH101J50 | | | | |
| | | | | | | | |
| C | 5407,5408,5419,5420 | | CCSSCH331J50 | | | | |
| C | 5409,5410,5615,5616 | | CKSSYB474K6R3 | | | | |
| C | 5412,5414,5617,5618 | | CKSSYB472K50 | | | | |
| C | 5423-5425,5427,5605 | | CKSRYP104K25 | | | | |
| C | 5426,5428,5626,5629 | | CEHAZL101M25 | | | | |
| | | | | | | | |
| C | 5607,5622,5623 | | CKSRYP104K25 | | | | |
| C | 5628,5645,5646,5653 | | CKSSYB104K16 | | | | |
| C | 5630-5633,5656,5657 | | CKSRYP104K25 | | | | |
| C | 5634-5637,5803,5804 | | CCSSCH102J50 | | | | |
| C | 5655,5658,5666,5815 | | CKSSYB104K16 | | | | |
| | | | | | | | |
| C | 5801,5802,6211,6213 | | CCSSCH101J50 | | | | |
| C | 5807,5810 | | CEAT470M25 | | | | |
| C | 5808,5809,6208,6219 | | CKSSYB103K25 | | | | |
| C | 5811,5812 | | CEHAT100M50 | | | | |
| C | 5813,5814,5817,6227 | | DCH1201 | | | | |
| | | | | | | | |
| C | 5816,5818,5820,6217 | | CKSSYB104K16 | | | | |
| C | 5821 | | CKSSYB103K16 | | | | |
| C | 6201,6202,6215 | | CCSSCH102J50 | | | | |
| C | 6207,6212,6225,6226 | | CEJQ100M35 | | | | |
| C | 6214 | | CKSSYB471K50 | | | | |

B MIC1 ASSY SEMICONDUCTORS

D 9001-9004

UDZS15(B)

MISCELLANEOUS

JA 9001 CANON CONNECTOR

DKB1108

CN9001 PLUG

CKS3533

0 MIC SHIELD

DNF1849

RESISTORS

R 9001-9004

RN1/16SE1000D

CAPACITORS

C 9001,9002

CFTLA103J50

C 9003-9008

CCSRCH102J50

C TRM1 ASSY MISCELLANEOUS

VR 8201 ROTARY VR

DCS1119

CN 8201 11P SOCKET

XKP3076

CAPACITORS

C 8201

CKSRYP104K25

D TRM2 ASSY MISCELLANEOUS

VR 8401 ROTARY VR

DCS1119

CN 8401 11P SOCKET

XKP3076

CAPACITORS

C 8401

CKSRYP104K25

E TRM3 ASSY MISCELLANEOUS

VR 8601 ROTARY VR

DCS1119

CN 8601 11P SOCKET

XKP3076

CAPACITORS

C 8601

CKSRYP104K25

F TRM4 ASSY MISCELLANEOUS

VR 8801 ROTARY VR

DCS1119

CN 8801 11P SOCKET

XKP3076

CAPACITORS

C 8801

CKSRYP104K25

Mark No. Description Part No.

Mark No. Description Part No.

G MAIN ASSY
SEMICONDUCTORS

| | | | |
|---|-----|------------------------|-------------------|
| A | | IC 101,201,301,401 | TC7WU04FU |
| | | IC 102,1601,2001,2002 | TC7SHU04FUS1 |
| | | IC 103-107,115-118 | TC7SH08FUS1 |
| | | IC 109 | TC7WH157FK |
| | | IC 110,202,302,402 | DIR9001PW |
| | | IC 111,112,203,204 | TC74LCX157FK |
| | | IC 113,114,205,206 | CS8421-CZ |
| | | IC 303,304,403,404 | TC74LCX157FK |
| | | IC 305,306,405,406 | CS8421-CZ |
| | | IC 501 | R5S76700B200BG |
| B | NSP | IC 502 | DYW1798 |
| | | IC 503 | MD56V72160B-6TAZ |
| | | IC 504,1403,1602 | TC7SH08FUS1 |
| | | IC 505 | TC7SH04FUS1 |
| | | IC 701 | D810K013BZKB400 |
| | | IC 702 | MD56V82160-6TAZ |
| | | IC 703 | DYW1797 |
| | | IC 704 | TC7SG08FU |
| | ⚠ | IC 1201 | KIA7809API |
| | ⚠ | IC 1202 | KIA7909PI |
| C | ⚠ | IC 1401 | NJM2392M |
| | ⚠ | IC 1402 | S-1170B25UC-OTK |
| | ⚠ | IC 1404 | NJM2831F33 |
| | ⚠ | IC 1405 | BD9325FJ |
| | ⚠ | IC 1406,1407 | BD9326EFJ |
| | | IC 1603 | RTL8201EL-VC-GR |
| | | IC 1801 | ADSP-BF524BBCZ-3A |
| | | IC 1802 | IS42S16400F-6TL |
| | | IC 2003-2005,2007-2009 | TC7SH08FUS1 |
| | | IC 2010 | S-80927CNMC-G8X |
| | | IC 2011 | DYW1799 |
| D | | IC 2012 | TC74HC4052AFT |
| | | IC 2205-2210,2401-2403 | TC7SH08FUS1 |
| | | IC 2214 | XC3S50A-4FTG256C |
| | | IC 2404 | CS8421-CZ |
| | | IC 2405 | AK4114VQ |
| | | IC 2601-2604 | TC7SH08FUS1 |
| | | IC 2801,3003 | RNB4580F |
| | | IC 2802 | AK4390EF |
| | | IC 2803,2804,3002,3004 | NJM4580MD |
| | | IC 2805,2806 | NJM4580D |
| | | IC 3001 | AK4387ET |
| E | | IC 3201,3404 | AK4382AVT |
| | | IC 3202,3205 | NJM4565MD |
| | | IC 3203,3204,3405,3406 | NJM4580MD |
| | | Q 101-103,1205,1405 | LTC124EUB |
| | | Q 1201,1402,1410 | HN1A01FU |
| | | Q 1206,1406,2001 | LTA124EUB |
| | | Q 1404,1409,2603,2821 | LSA1576UB |
| | | Q 1407,2003,2401-2403 | LTC124EUB |
| | | Q 1408,2602,2820,2822 | LSC4081UB |
| | | Q 2404 | 2SC2412K |
| | | Q 2601,2836,3409,3410 | LTC124EUB |
| F | | Q 2801,2802,2828,2829 | 2SC5868 |
| | | Q 2803-2808,2811,2815 | HN1C01FU |
| | | Q 2809,2810,2812,2813 | 2SK3320 |

| | | | |
|--|--|-----------------------|--------------|
| | | Q 2814,2816,2818 | HN1A01FU |
| | | Q 2817,2819 | HN1C01FU |
| | | Q 2823,2825,2827,2838 | LSA1576UB |
| | | Q 2824,2826,3401,3403 | LSC4081UB |
| | | Q 2830,2831,2834,2835 | 2SA2090 |
| | | Q 2832,2833 | 2SC5868 |
| | | Q 2837 | 2SC3326 |
| | | Q 2839,3402,3404,3411 | LSA1576UB |
| | | Q 3001-3004,3201,3203 | 2SK209 |
| | | Q 3005-3008,3202 | INC2002AC1 |
| | | Q 3204,3209 | 2SK209 |
| | | Q 3205-3208,3210-3212 | INC2002AC1 |
| | | Q 3405,3407 | 2SD1760F5 |
| | | Q 3406,3408 | 2SB1184F5 |
| | | Q 3412 | LSA1576UB |
| | | D 1201,1402,1414 | 1SS301 |
| | | D 1202,1203 | RB501V-40 |
| | | D 1401,1415,2807-2824 | 1SS352 |
| | | D 1405 | RB160L-40 |
| | | D 1406 | RKZ3.3KG(B2) |
| | | D 1410,1411,1413 | CMS03 |
| | | D 2801 | HZU5R1(B1) |
| | | D 2803-2806 | HZU3R0(B1) |
| | | D 2829-2832 | DZ2S180C |
| | | D 2833,2834,3401-3405 | 1SS352 |

MISCELLANEOUS

| | | | |
|--|--|---------------------------------|---------------|
| | | L 501-503 CHIP SOLID INDUCTOR | QTL1013 |
| | | L 701,702 CHIP SOLID INDUCTOR | QTL1013 |
| | | L 703,704 INDUCTOR | CTF1579 |
| | | L 1401 INDUCTOR(470 uH) | DTL1123 |
| | | L 1402,1403 INDUCTOR | CTH1253 |
| | | L 1404 INDUCTOR | BTH1110 |
| | | L 1601,1801 CHIP SOLID INDUCTOR | QTL1013 |
| | | L 1802 CHIP SOLID INDUCTOR | QTL1013 |
| | | L 2001 CHIP COIL | LCTAW330J2520 |
| | | F 1601,1602 COIL | VTH1056 |
| | | JA 101 4P PIN JACK (ORANGE) | DKB1110 |
| | | JA 1601 RJ45 CONNECTOR | VKN2023 |
| | | JA 2401 1P JACK | DKB1089 |
| | | JA 2801,2802 CANON CONNECTOR | DKB1093 |
| | | JA 3001 JACK | DKB1083 |
| | | JA 3201,3202 HEADPHONE JACK | DKN1622 |
| | | KN 1201-1208 WRAPPING TERMINAL | CKF1089 |
| | | KN 2601,3401 WRAPPING TERMINAL | CKF1089 |
| | | RY 2801,2802,3401 RELAY | VSR1008 |
| | | T 1601 10/100BASE-T TRANS | BTX1044 |
| | | X 101 CRYSTAL (22.5792 MHz) | DSS1202 |
| | | X 1601 CRYSTAL (25 MHz) | DSS1205 |
| | | X 1801 CRYSTAL (24 MHz) | DSS1203 |
| | | X 2001 RESONATOR (20 MHz) | CSS1795 |
| | | X 2002 CRYSTAL (24.576 MHz) | DSS1204 |
| | | CN 1001 CONNECTOR | 9604S-31C |
| | | CN 1002 CONNECTOR | VKN2050 |
| | | CN 1003 19P PLUG | AKM7077 |
| | | CN 1201 CONNECTOR | AKM1277 |
| | | CN 1202 CONNECTOR | AKM1278 |
| | | CN 1203 CONNECTOR | AKM1282 |
| | | CN 1802 CONNECTOR | AKM1276 |
| | | CN 3401 CONNECTOR | AKM1275 |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|-------------------------------|-----------|------|---------------------|-------------|---------------|
| | 0 | CANON SHIELD | DNF1789 | R | 1444,1613,1804,1806 | | RS1/10SR0R0J |
| NSP | 0 | ID LABEL ASSY | AXW7015 | R | 1446,1450,3021,3022 | | RS1/10SR4701D |
| | | | | R | 1447 | | RS1/10SR1201D |
| △ | P | 1204 PROTECTOR (3.000 A) | DEK1103 | R | 1448 | | RS1/10SR2201D |
| △ | P | 1207,1208 PROTECTOR (0.750 A) | DEK1121 | | | | |
| △ | P | 1209 PROTECTOR (0.750 A) | DEK1096 | R | 1609-1612 | | RS1/10SR750J |
| △ | P | 1210 PROTECTOR (0.500 A) | DEK1095 | R | 1618 | | RS1/10SR2491F |
| | JP | 1205,1206 JUMPER | DDC1022-A | R | 1807,1817,2001,2002 | | RS1/10SR0R0J |
| | | | | R | 1835-1837,1884,1885 | | RAB4CQ121J |
| | | | | R | 1861-1864,1882,1883 | | RAB4CQ470J |
| | | | | R | 1902,1903 | | RAB4CQ470J |
| | | | | R | 1904,1905 | | RAB4CQ121J |
| | | | | R | 2023,3049,3050 | | RS1/10SR474J |
| | | | | R | 2025,2073,2074,2089 | | RS1/10SR0R0J |
| | | | | R | 2032 | | RAB4CQ222J |
| | | | | R | 2055,2809,3007,3206 | | RAB4CQ103J |
| | | | | R | 2075,2076,2260,2265 | | RAB4CQ220J |
| | | | | R | 2239,2268,2280,2425 | | RS1/10SR0R0J |
| | | | | R | 2252,2271,2330 | | RAB4CQ330J |
| | | | | R | 2277,2278,2287,2289 | | RAB4CQ220J |
| | | | | R | 2310,2311,2320,2321 | | RAB4CQ220J |
| | | | | R | 2340,2354,2359,2602 | | RAB4CQ220J |
| | | | | R | 2414,2892-2899 | | RN1/16SE2001D |
| | | | | R | 2415 | | RN1/16SE6202D |
| | | | | R | 2422 | | RN1/16SE1802D |
| | | | | R | 2426 | | RS1/10SR272J |
| | | | | R | 2427 | | RS1/10SR182J |
| | | | | R | 2428 | | RS1/10SR392J |
| | | | | R | 2429 | | RS1/10SR221J |
| | | | | R | 2430 | | RS1/10SR680J |
| | | | | R | 2431,3047,3048 | | RS1/10SR104J |
| | | | | R | 2432,2601,2607,2608 | | RS1/10SR0R0J |
| | | | | R | 2603,2622 | | RAB4CQ220J |
| | | | | R | 2605,2609-2611 | | RS1/4SOR0J |
| | | | | R | 2614-2621,2633,2805 | | RS1/10SR0R0J |
| | | | | R | 2802,2803,2922-2925 | | RS1/10SR102J |
| | | | | R | 2817,2820,3232,3233 | | RS1/10SR0R0J |
| | | | | R | 2821,2905,2906,3214 | | RN1/16SE4701D |
| | | | | R | 2822 | | RN1/16SE4301D |
| | | | | R | 2823,2832,2837,2846 | | RN1/16SE4700D |
| | | | | R | 2824-2831,2958,2961 | | RN1/16SE1501D |
| | | | | R | 2833-2836,2838-2841 | | RN1/16SE8201D |
| | | | | R | 2842-2845,2847-2850 | | RN1/16SE1301D |
| | | | | R | 2851 | | RN1/16SE4700D |
| | | | | R | 2852-2859 | | RN1/16SE8201D |
| | | | | R | 2860-2867 | | RN1/16SE1101D |
| | | | | R | 2868-2871 | | RS1/10SR3303D |
| | | | | R | 2872-2875 | | RS1/10SR181J |
| | | | | R | 2876-2883,3428,3429 | | RN1/16SE2201D |
| | | | | R | 2888-2891 | | RN1/16SE3902D |
| | | | | R | 2904,2907,2912-2915 | | RN1/16SE1000D |
| | | | | R | 2908-2911 | | RN1/16SC68R0D |
| | | | | R | 2920,2921,2938,2943 | | RN1/16SE1000D |
| | | | | R | 2930-2933,3457-3460 | | RS1/10SR102J |
| | | | | R | 2934-2937,2939-2942 | | DCN1199 |
| | | | | R | 2952-2955,3248,3250 | | DCN1198 |
| | | | | R | 2957,2960,2964,2967 | | RN1/16SE1001D |
| | | | | R | 2962,2969-2971 | | RN1/16SE3301D |
| | | | | R | 2963,2966,3218,3219 | | RN1/16SE3901D |
| | | | | R | 2965,2968,3272,3273 | | RN1/16SE1501D |
| | | | | R | 1440 | | RS1/10SR1502F |

RESISTORS

R 102,202,302,402

R 112,153,163,167

R 114,1616,2004,3031

R 124,125,168,219

R 141,228,328,428

R 158,170,243,251

R 159,171,244,252

R 172,2411,2956,2959

R 173,175,180,532

R 174,2416

R 220,319,320,419

R 343,351,443,451

R 344,352,444,452

R 420,1449,1452,2410

R 501-510,572-576

R 512-515,1821,2044

R 524,525

R 594-597,799,803

R 613,782,1006,1016

R 614,615,634,635

R 616,617,636,637

R 731-735,755-757

R 783,784,825,826

R 804,817,818,836

R 837,845,846,853

R 854,913,2054,2057

R 1017,1021-1028,1035

R 1029,1032,1037

R 1036,1038

R 1039,1046-1048,1201

R 1202

R 1203

R 1207

R 1208

R 1221,3463,3465

R 1222,1228-1231,1405

R 1412

R 1413,1415

R 1416,1503

R 1418

R 1419

R 1421

R 1422

R 1423,2005,2801

R 1426,1427

R 1428,1436,1439,1442

R 1429,2807,2901,2902

R 1430-1432,1498-1500

R 1437,3015,3016

R 1438,1445,1451

R 1440

Mark No. Description

Part No.

Mark No. Description

Part No.

A

R 3011-3014 RN1/16SE1202D
 R 3017,3018,3023,3024 RS1/10SR4702D
 R 3019,3020,3027,3028 RN1/16SE1502D
 R 3025,3026 RS1/10SR4301D
 R 3029,3030,3041,3042 RN1/16SE1002D

C 217,221,222,225 DCH1201
 C 220,223,224,305 CKSSYB104K10
 C 307,309,316,321 DCH1201
 C 308,310,314,315 CKSSYB104K10
 C 318,320,323,324 CKSSYB104K10
 C 319,411,416,419 CKSSYB103K16
 C 322,325,407,409 DCH1201
 C 405,408,410,414 CKSSYB104K10

B

R 3032,3043,3044 RS1/10SR105J
 R 3033,3034,3045,3046 RS1/10SR183J
 R 3035-3037,3040 DCN1200
 R 3038,3039 RS1/10SR100J
 R 3209,3271,3294,3295 RN1/16SE1001D

C 415,418,420,423 CKSSYB104K10
 C 417,421,422,425 DCH1201
 C 424,501,504,505 CKSSYB104K10
 C 503,511,514,542 DCH1201
 C 506,517,555,559 CKSSYB471K50

C

R 3210,3211,3225,3227 RN1/16SE5601D
 R 3212,3213,3216,3217 RN1/16SE2702D
 R 3215,3262,3267,3278 RN1/16SE4701D
 R 3220-3223,3228-3231 RN1/16SE2701D
 R 3224,3226,3234,3236 RN1/16SE6801D

C 507,510,515,522 CKSSYB104K10
 C 508,516,518,519 CKSSYB103K16
 C 521,524-531 CKSSYB103K16
 C 532,724,726,728 CKSSYB102K50
 C 533-536,538-540 CKSSYB103K16

R 3235,3237,3261,3266 RN1/16SE5601D
 R 3238,3239,3401,3404 RS1/10SR0R0J
 R 3240-3243,3249,3251 RS1/10SR183J
 R 3252,3254 DCN1198
 R 3253,3255 RS1/10SR183J

C 537,750,1853,1857 CCSSCH101J50
 C 541,553,554 CKSSYB104K10
 C 544,755,764,1405 DCH1201
 C 545-552,709,711 CKSSYB103K16
 C 556-558,560,701 CKSSYB104K10

R 3256-3259,3456,3461 RS1/10SR104J
 R 3263,3268,3282,3283 RN1/16SE3901D
 R 3264,3265,3269,3270 RN1/16SE2702D
 R 3274,3275,3284,3289 RN1/16SE5601D
 R 3276,3277,3280,3281 RN1/16SE2702D

C 702,705,706,752 CKSSYB104K10
 C 704,1214,1220,1221 CEVW470M16
 C 707,708,1809,1810 CKSSYB471K50
 C 713,719,721,723 CKSSYB103K16
 C 725,727,729,731 CKSSYB103K16

R 3279,3285,3290,3434 RN1/16SE4701D
 R 3286,3291,3416-3419 RN1/16SE3901D
 R 3287,3288,3292,3293 RN1/16SE2702D
 R 3296,3297 RN1/16SE1501D
 R 3413 RAB4CQ103J

C 730,732,734,736 CKSSYB102K50
 C 733,735,737,739 CKSSYB103K16
 C 738,740,742,744 CKSSYB102K50
 C 741,743,745,747 CKSSYB103K16
 C 746,748,1471,1824 CKSSYB102K50

D

R 3420-3423 RN1/16SE1502D
 R 3424-3427 RN1/16SE3301D
 R 3430,3432 RN1/16SE1201D
 R 3431,3433,3435,3438 RS1/10SR0R0J
 R 3436,3437,3439 RN1/16SE4701D

C 749,751,754 CKSSYB103K16
 C 756-762,1621,1623 CKSSYB103K16
 C 763,765,767,768 CKSSYB104K10
 C 1001,1209,1404,1407 CKSSYB104K10
 C 1201 CEVW471M16

R 3440-3443 RS1/10SR1001D
 R 3444-3447 RS1/10SR1801D
 R 3449-3452 DCN1197
 R 3454,3455 RS1/10SR0R0J
 R 3462,3464,3466,3467 RS1/10SR473J

C 1202-1204,1206,1213 CEVW101M25
 C 1205,1215,1218,1401 CKSSYB104K16
 C 1207,1208,2814,2815 CKSRYB104K50
 C 1210-1212,1270-1272 CCSSCH102J50
 C 1216 CKSQYB334K50

Other Resistors RS1/16SS###J

CAPACITORS

C 102,202,302,402 CCSSCH221J50
 C 103,203,303,403 CKSRYB103K50
 C 104,204,304,404 CCSSCH220J50
 C 105,107,110-112 CKSSYB104K10
 C 106,109,1605,1607 CCSSCH120J50

C 1217 CCG1254
 C 1219 CKSRYB105K16
 C 1402,1409,2215,2229 CEVW470M16
 C 1403,2416,2827,2828 CEVW101M16
 C 1406,1415 CCSSCH470J50

C 108,206,306,406 CCSSCH470J50
 C 113,119,128,133 DCH1201
 C 114,115,117,118 CKSSYB104K10
 C 120,124,126,129 CKSSYB104K10
 C 121,127,131,211 CKSSYB103K16

C 1408,1449-1453,1456 DCH1201
 C 1411,1413,1414,1454 CKSSYB104K10
 C 1412 CEVW101M50
 C 1417,1421,1422,1425 CKSSYB104K16
 C 1419,2015,2022 CKSRYB105K10

C 122,212,312,412 CKSRYB472K50
 C 123,213,313,413 CKSRYB683K16
 C 132,135,137 CKSSYB104K10
 C 134,138,207,209 DCH1201
 C 140-143,205,208 CKSSYB104K10

C 1423,1424,1428,1470 CCG1182
 C 1433-1435,1437 CKSSYB104K16
 C 1436,1438,1442,1472 CCSSCH222J50
 C 1439,1476,1479,1490 CCSSCH102J50
 C 1444-1448 CKSSYB104K16

F

C 210,214,215,218 CKSSYB104K10
 C 216,219,311,317 CKSSYB103K16

C 1455,1459,1602-1604 CKSSYB104K10

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|------------------------|-------------------|-------------------|---------------------------------|-----------------|----------|
| | | J SEND ASSY | | | | | |
| | | SEMICONDUCTORS | | | | | |
| A | | IC 6401 | AK4387ET | D | 6680-6683,6693-6695 | SLI-343YYW(TUV) | |
| | | IC 6402 | RNB4580F | D | 6696,6697,6711,6712 | SLR-343VC(NPQ) | |
| | | Q 6401,6402 | 2SK209 | D | 6698-6701,6713-6716 | SLI-343YYW(TUV) | |
| | | Q 6403,6404 | INC2002AC1 | D | 6702-6710,6717-6725 | SLR-343MC(NPQ) | |
| | | | | D | 6726-6730 | SLI-343M8G(GHJ) | |
| | | | | D | 6731,6734 | SLI-343YYW(TUV) | |
| | | | | D | 6732 | SLR343EC4T(LMN) | |
| | | | | D | 6733,6736-6741 | SLR343BC4T(JK) | |
| | | | | D | 6742-6763 | 1SS352 | |
| | | MISCELLANEOUS | | | | | |
| | | JA 6401,6402 MIC JACK | DKN1614 | | | | |
| | | CN 6401 19P RECEPTACLE | AKP7199 | | | | |
| | | O PHONE SHIELD | DNF1875 | | | | |
| | | RESISTORS | | | | | |
| B | | R 6401-6404 | RS1/10SR0R0J | L | 6601 CHIP COIL | LCTAW330J2520 | |
| | | R 6414,6415,6418,6419 | RS1/10SR4701D | V | 6601 VFD | DEL1071 | |
| | | R 6416,6417,6420,6421 | RS1/10SR4702D | VR | 6601 VARIABLE RESISTOR | DCS1100 | |
| | | R 6422,6424 | RS1/10SR4301D | VR | 6602 POTENTIOMETER | DCS1092 | |
| | | R 6425,6426 | RD1/2VM821J | VR | 6603-6606 VARIABLE RESISTOR | DCS1100 | |
| | | | | VR | 6607 ROTARY VR | DCS1086 | |
| | | R 6427,6428 | RS1/10SR105J | VR | 6608,6609 VARIABLE RESISTOR | DCS1100 | |
| | | R 6429,6430 | RS1/10SR183J | VR | 6610,6615,6619 POTENTIOMETER | DCS1095 | |
| | | Other Resistors | RS1/16SS###J | VR | 6611-6614 VARIABLE RESISTOR | DCS1100 | |
| | | | | VR | 6616-6618 VARIABLE RESISTOR | DCS1100 | |
| | | CAPACITORS | | VR | 6620 POTENTIOMETER | DCS1095 | |
| C | | C 6406,6407,6414,6415 | CKSSYB104K16 | S | 6601-6611,6617-6620 TACT SWITCH | DSG1079 | |
| | | C 6412 | CKSSYB103K16 | S | 6612 LEVER SWITCH | DSK1026 | |
| | | C 6413 | DCH1201 | S | 6613-6616 ROTARY SWITCH | DSG1099 | |
| | | C 6416-6418 | CEAT100M50 | S | 6621 SLIDE SWITCH | DSH1066 | |
| | | C 6419,6420 | CCSQCH472J50 | | | | |
| | | | | S | 6622 ROTARY ENCODER | DSX1068 | |
| | | C 6421,6422 | CCSRCH152J50 | S | 6623-6628 TACT SWITCH | DSG1079 | |
| | | C 6423,6426 | CKSRYB334K10 | X | 6601 CERAMIC RESONATOR (20 MHz) | DSS1180 | |
| | | C 6424,6430 | CEHAT100M50 | CN | 6601 12P CONNECTOR | VKN1243 | |
| | | C 6425,6428 | CKSSYB103K25 | CN | 6602,6603 CONNECTOR 31P | 52492-3120 | |
| | | C 6427,6429 | CCSRCH560J50 | | | | |
| | | | | CN | 6609 PLUG (3P) | KM200NA3Y | |
| | | C 6431,6432 | CKSSYB473K16 | CN | 6610 PLUG (3P) | KM200NA3R | |
| | | C 6433,6434 | CEANP100M35 | CN | 6611 PLUG (3P) | KM200NA3 | |
| | | C 6435,6436 | DCE1016 | CN | 6612 PLUG (3P) | KM200NA3E | |
| | | | | O | FL HOLDER | DNF1869 | |
| D | | K PNLA ASSY | | | | | |
| | | SEMICONDUCTORS | | | | | |
| | | IC 6601 | DYW1800 | RESISTORS | | | |
| | | IC 6602-6604 | TC74HC4052AF | R | 6616 | RS1/10SR1202F | |
| | | IC 6605 | NJM2903M | R | 6617 | RS1/10SR8201D | |
| | | Q 6601,6604,6638-6649 | LSA1576UB | R | 6884,6896-6899 | RS1/4SA100J | |
| | | Q 6602 | 2SD1898 | R | 6901-6905 | RS1/4SA100J | |
| | | | | | Other Resistors | RS1/10SR###J | |
| | | Q 6605-6621 | LSC4081UB | CAPACITORS | | | |
| | | Q 6622,6624,6626,6628 | LTC143EUB | C | 6601,6602,6608 | CEJQ470M16 | |
| | | Q 6623,6625,6627,6629 | 2SB1188 | C | 6603,6604,6611,6618 | CKSRYB104K16 | |
| E | | Q 6630,6632,6634,6636 | LTC143EUB | C | 6606,6622 | CCSRCH102J50 | |
| | | Q 6631,6633,6635,6637 | 2SB1188 | C | 6607,6623,6629 | CKSRYB103K50 | |
| | | | | C | 6610,6612 | CKSRYB104K50 | |
| | | Q 6650 | LTA143EUB | C | 6615-6617,6726,6727 | CCSRCH101J50 | |
| | | Q 6651,6653 | LTC143EUB | C | 6619,6624,6625,6628 | CKSRYB104K16 | |
| | | Q 6652,6654 | LSA1576UB | C | 6620,6621 | CKSQYB225K10 | |
| | | D 6615,6616,6618-6623 | 1SS352 | C | 6626,6631 | CKSRYB105K10 | |
| | | D 6624,6735 | SLI-343U8RC(HJKL) | C | 6627 | CKSQYB106K6R3 | |
| | | | | C | 6630,6632,6633 | CKSRYB104K16 | |
| | | D 6625,6628-6631,6641 | SLI-343YYW(TUV) | C | 6640,6720-6725 | CKSRYB103K16 | |
| | | D 6626,6627,6643,6644 | SLR-343VC(NPQ) | C | 6641-6644,6656-6663 | CKSRYB104K16 | |
| | | D 6632-6640,6649-6657 | SLR-343MC(NPQ) | C | 6645 | CEJQ101M16 | |
| | | D 6642,6645-6648,6658 | SLI-343YYW(TUV) | C | 6664-6675,6685-6696 | CKSRYB471K50 | |
| | | D 6659,6660,6678,6679 | SLR-343VC(NPQ) | | | | |
| F | | | | C | 6676,6679,6680 | CKSRYB104K16 | |
| | | D 6661-6664,6674-6677 | SLI-343YYW(TUV) | C | 6697-6719 | CKSRYB104K16 | |
| | | D 6665-6673,6684-6692 | SLR-343MC(NPQ) | | | | |

| Mark | No. | Description | Part No. |
|------|--------|-------------|----------|
| | C 6728 | | CCG1255 |

L CDCB ASSY

SEMICONDUCTORS

| | |
|---------|------------------|
| IC 3601 | AD7147ACPZ500RL7 |
| D 3611 | SMLC14WBEPW(Z1) |

MISCELLANEOUS

| | |
|-----------------------|---------|
| CN 3601 12P CONNECTOR | VKN1416 |
|-----------------------|---------|

RESISTORS

| | |
|---------------|--------------|
| All Resistors | RS1/16SS###J |
|---------------|--------------|

CAPACITORS

| | |
|--------|--------------|
| C 3602 | CKSSYB103K25 |
| C 3603 | CKSSYB104K16 |
| C 3604 | DCH1201 |

M FAD1 ASSY

MISCELLANEOUS

| | |
|-------------------|----------|
| VR 7201 SLIDE VR | DCV1027 |
| CN 7201 PLUG (3P) | KM200NA3 |

N FAD2 ASSY

MISCELLANEOUS

| | |
|-------------------|-----------|
| VR 7401 SLIDE VR | DCV1027 |
| CN 7401 PLUG (3P) | KM200NA3R |

O FAD3 ASSY

MISCELLANEOUS

| | |
|-------------------|-----------|
| VR 7601 SLIDE VR | DCV1027 |
| CN 7601 PLUG (3P) | KM200NA3E |

P FAD4 ASSY

MISCELLANEOUS

| | |
|-------------------|-----------|
| VR 7801 SLIDE VR | DCV1027 |
| CN 7801 PLUG (3P) | KM200NA3Y |

Q PNLB ASSY

SEMICONDUCTORS

| | |
|------------------|-----------------|
| Q 7001,7002 | LSC4081UB |
| D 7001-7005,7007 | SLI-343YYW(TUV) |
| D 7008-7027 | 1SS352 |

MISCELLANEOUS

| | |
|--------------------------------|---------|
| VR 7001,7004 ROTARY VR | DCS1086 |
| VR 7002,7003 VARIABLE RESISTOR | DCS1100 |
| S 7001 12MM GS ENCODER | DSX1064 |
| S 7002 ROTARY SWITCH | DSG1098 |
| S 7003-7007 TACT SWITCH | DSG1079 |

| | |
|-------------------------------|-----------|
| S 7008,7014 SLIDE SWITCH | DSH1066 |
| S 7009-7013,7015 SLIDE SWITCH | DSH1058 |
| CN 7001 CONNECTOR | 9604S-31C |
| CN 7002 PLUG (3P) | KM200NA3 |

RESISTORS

| | |
|---------------|--------------|
| All Resistors | RS1/10SR###J |
|---------------|--------------|

| Mark | No. | Description | Part No. |
|------|-----|-------------|----------|
|------|-----|-------------|----------|

CAPACITORS

| | |
|-----------------------|--------------|
| C 7002,7005,7008,7010 | CKSRYB104K16 |
| C 7004,7006 | CEJQ470M16 |
| C 7007,7009 | CKSRYB103K50 |
| C 7012,7015,7016,7018 | CKSRYB104K16 |

R FADC ASSY

MISCELLANEOUS

| | |
|---------------------------|-----------|
| VR 8001 VARIABLE RESISTOR | DCV1006 |
| CN 8001 L-PLUG (3P) | KM200NA3L |

S POWER SUPPLY ASSY

There is no service parts.

T ACSW ASSY

MISCELLANEOUS

| | |
|---------------------------|------------|
| ⚠ S 9401 SWITCH | DSA1036 |
| ⚠ CN 9401 CONNECTOR2P | 2-178496-4 |
| ⚠ 0 MASK | DEC3212 |
| ⚠ JP 9401 CONNECTOR ASS'Y | DKP3799 |

CAPACITORS

| | |
|----------|---------|
| ⚠ C 9402 | ACG7030 |
|----------|---------|