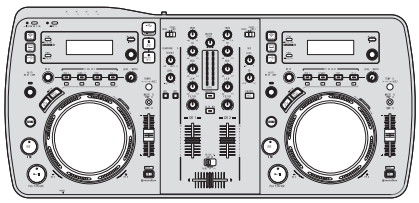
Pioneer

Service Manual



XDJ-AERO

ORDER NO.
RRV4321

DJ SYSTEM

XDJ-AERO

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

Model	Type	Power Requirement	Remarks
XDJ-AERO	CUXJ	AC 100 V to 240 V	
XDJ-AERO	SVWYXJ8	AC 100 V to 240 V	
XDJ-AERO	LWPWXJ	AC 100 V to 240 V	
XDJ-AERO	KXJ5	AC 100 V to 240 V	
XDJ-AERO	AXJ5	AC 100 V to 240 V	

PIONEER CORPORATION 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan
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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

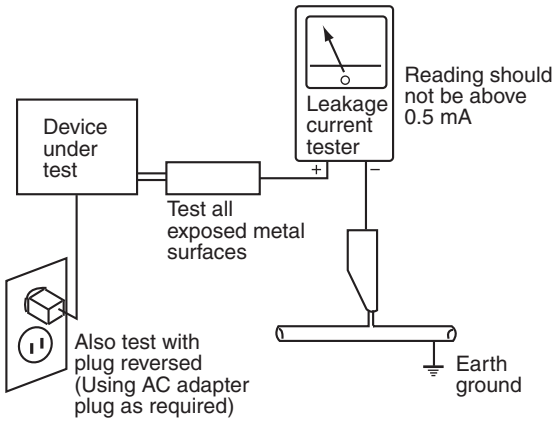
(FOR USA MODEL ONLY)

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.

CONTENTS

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

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

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

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

1.2 NOTES ON REPLACING

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	Parts that is Diffcult to Replace			
	Ref No.	Function	Part No.	Remarks
MAIN Assy	IC501	Power supply management IC	MC13892AJVL	BGA
	IC1001	Application processor	MCIMX512DJM8C	BGA
	IC1201, IC1202	DD2 memory	K4T1G164QF-BCE7	BGA
	IC201	DC/DC converter for V+4R2_D	BD9328EFJ	IC with heat-pad
	IC202	DC/DC converter for V+5_D	BD9328EFJ	IC with heat-pad
	IC204	Regulator for V+2.775_D	BD00KA5WFP	IC with heat-pad
	IC402	DC/DC converter for V+7R5_A	BD9328EFJ	IC with heat-pad
	IC1801, IC1091	USB transceiver IC	USB3320C-EZK	IC with heat-pad
	IC1802	Current limit IC for USB	TPS2557DRB	IC with heat-pad
	Q3402, Q3404	Transistor for HP amplifier	2SD1767(QR)	TR with heat-pad
	Q3403, Q3405	Transistor for HP amplifier	2SB1189(R)	TR with heat-pad

1.3 NOTES ON SERVICING

VOLTAGE MONITORING

This unit always monitors for power failure and will shut itself off immediately after an error is detected.
If an error is detected, the STANDBY/ON indicator LED flashes alternately in green and red and other LEDs become unlit.
If the unit shuts itself off because of error detection, disconnect the AC adapter from this unit, reconnect it after a while, then turn the unit back on.
If repair is required, follow "Diagnostic procedure" in "5.3 VOLTAGE MONITORING."
A judgment of power failure may also be made if power supply to the product becomes unstable (voltage drop, instantaneous power failure, etc.).
If no abnormality is found in the product, check the AC power source.

About the EUP UCOM

The service parts for EUP UCOM (IC5002) in the EUPB Assy including program will be procured from the manufacturer of this IC. Its part number is PEQ194A8.
It will be available as a service part from November 2012, as time is required for the IC manufacturer to write the program to the EUP UCOM.

2. SPECIFICATIONS

AC adapter
Power..... AC 100 V to 240 V, 50 Hz/60 Hz
Rated current..... 0.6 A
Rated output.....DC 12 V, 2 A
Power consumption (standby) .....0.5 W

General – Main Unit
Power consumption ..... 1.3 A
Main unit weight..... 3.7 kg
Max. external dimensions.... 623 mm (W) x 65 mm (H) x 289.5 mm (D)
Tolerable operating temperature.....+5 °C to +35 °C
Tolerable operating humidity.....5 % to 85 % (no condensation)

Wireless LAN section
Supported standards..... IEEE 802.11b/g/n (2.4 GHz band)

Audio Section
Sampling rate .....44.1 kHz
A/D, D/A converter..... 24 bits
Frequency characteristic
WLAN/USB/LINE..... 20 Hz to 20 kHz
S/N ratio (MASTER OUT 1, rated output, A-WEIGHTED)
WLAN/USB (when external input terminal not connected)..... 105 dB
LINE..... 94 dB
PHONO ..... 84 dB
MIC..... 79 dB
Total harmonic distortion (MASTER OUT 1, 20 Hz — 20 kHzBW)
WLAN/USB.....0.003 %
LINE.....0.006 %
Standard input level / Input impedance
LINE.....–12 dBu/47 kΩ
PHONO .....–52 dBu/47 kΩ
MIC.....–52 dBu/12 kΩ
Standard output level / Load impedance / Output impedance
MASTER OUT 1 .....+6 dBu/10 kΩ/1 kΩ or lower
MASTER OUT 2 .....+2 dBu/10 kΩ/1 kΩ or lower
PHONES .....+3.8 dBu/32 Ω/51 Ω
Rated output level / Load impedance
MASTER OUT 1 .....+24 dBu/10 kΩ
MASTER OUT 2 .....+20 dBu/10 kΩ
Crosstalk (20 Hz — 20 kHzBW)
LINE..... 89 dB
Channel equalizer characteristic
HI ..... –∞ to + 9 dB (13 kHz)
MID..... –∞ to + 9 dB (1 kHz)
LOW ..... –∞ to +9 dB (70 Hz)
Microphone equalizer characteristic
LOW — CENTER — HI..... –12 dB (10 kHz) to 0 dB to –12 dB (100 Hz)

Input/output terminals
USB downstream port
Type A..... 1 set
Power supply.....5 V/500 mA or less
USB upstream port
B type ..... 1 set
MASTER OUT 1 output terminal
TRS phone jack (Ø 6.3 mm)..... 1 set
MASTER OUT 2 output terminal
RCA pin jacks..... 1 set
PHONES output terminal
Stereo phone jack (Ø 6.3 mm) ..... 1 set
Stereo mini phone jack (Ø 3.5 mm)..... 1 set
PHONO/LINE input terminals
RCA pin jack..... 2 sets
MIC input terminal
Phone jack (Ø 6.3 mm)..... 1 set

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

Accessories

- CD-ROM including rekordbox, the driver software and operating instructions (rekordbox license key affixed)
  (CUXJ, SVWYXJ8, LWPWXJ: DXX2715)
  (KXJ5, AXJ5: DXX2716)
- AC adapter
  (CUXJ: DWR1522 or DWR1523 or DWR1524)
  (SVWYXJ8: DWR1523 or DWR1524)
  (LWPWXJ: DWR1523 or DWR1524)
  (KXJ5: DWR1524)
  (AXJ5: DWR1524)
- Power cord
  (CUXJ: XDG3052)
  (SVWYXJ8: ADG1154)
  (LWPWXJ: ADG1154, ADG7097)
  (KXJ5: ADG7113)
  (AXJ5: ADG7079)
- Warranty card (SVWYXJ8 only)
- Read Before Use (Important)
  (CUXJ: DRH1171)
  (SVWYXJ8: DRH1170)
  (LWPWXJ: DRH1172)
  (KXJ5: DRH1169)
  (AXJ5: DRH1168)
- Quick Start Guide
  (CUXJ, SVWYXJ8, LWPWXJ only: DRH1167)
- Notice on software licenses
  (CUXJ, SVWYXJ8: DRH1174, DRH1198)
  (LWPWXJ: DRH1174)
  (XKJ5, AXJ5: DRH1175)
- Version up guide
  (DRH1180)
- SSID, password guide
  (DRH1197)

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

No.	Procedures	Check points
1	Check the firmware version.	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.	The customer complain must not be reappeared. Audio and operations must be normal.
3	Check the analog audio output.	There must be no errors in audio output and operations of each channel.
4	Check playback, using the fader function.	There must be no errors in audio output and operations of each channel.
5	Check the MASTER output.	Audio and operations must be normal.
6	Check the headphones output.	There must be no errors, such as noise, in the audio output.
7	Check the connection of each interface.	
	Check playback, using the USB A.	Audio and search etc. operations must be normal.
	USB B	The device must be properly recognized by the PC.
	Wireless LAN	The output signal can detect with a PC or smartphone / tablet PC.
8	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
rekordbox	Supplied software	It must be confirmed that music files playbacked in the PC can be transferred to the XDJ-AERO via wireless LAN, using rekordbox installed on the PC. You can download rekordbox from the Pioneer Web site.

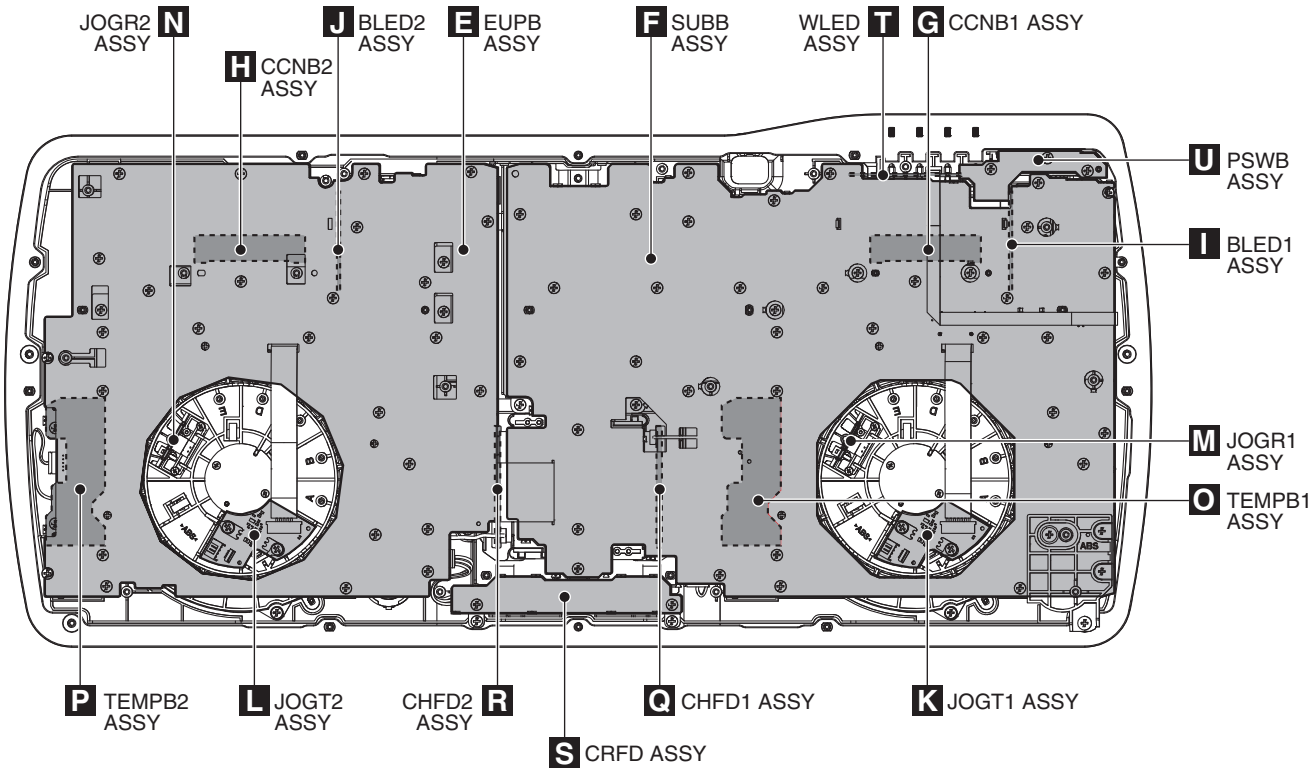
■ Lubricants and Glues List

Name	Part No.	Remarks
Grease	GYA1001	Refer to "9.4 CONTROL PANEL SECTION (2/2)".
Grease	GEM1095	Refer to "9.5 JOG SECTION".

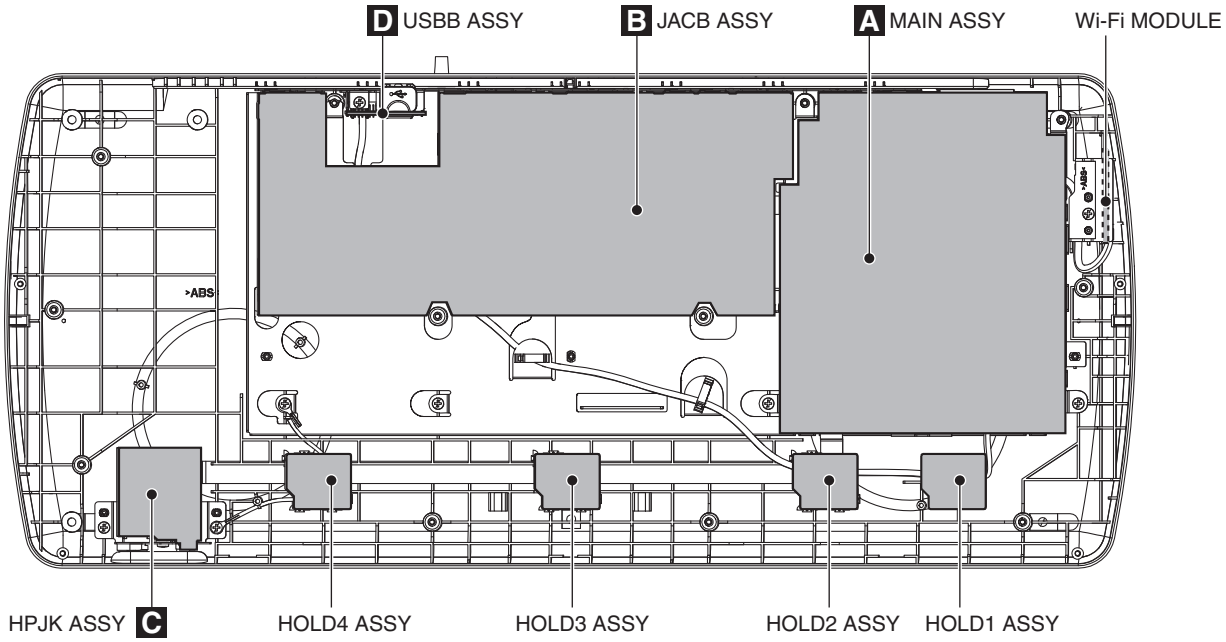
3.3 PCB LOCATIONS

Control panel section (bottom view)

Note:
The 1 and 2 Assys of BLED, CCNB, CHFD, JOGR, JOGT, and TEMPB Assys have the same circuitry, parts, and board shapes. Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.



Bottom section



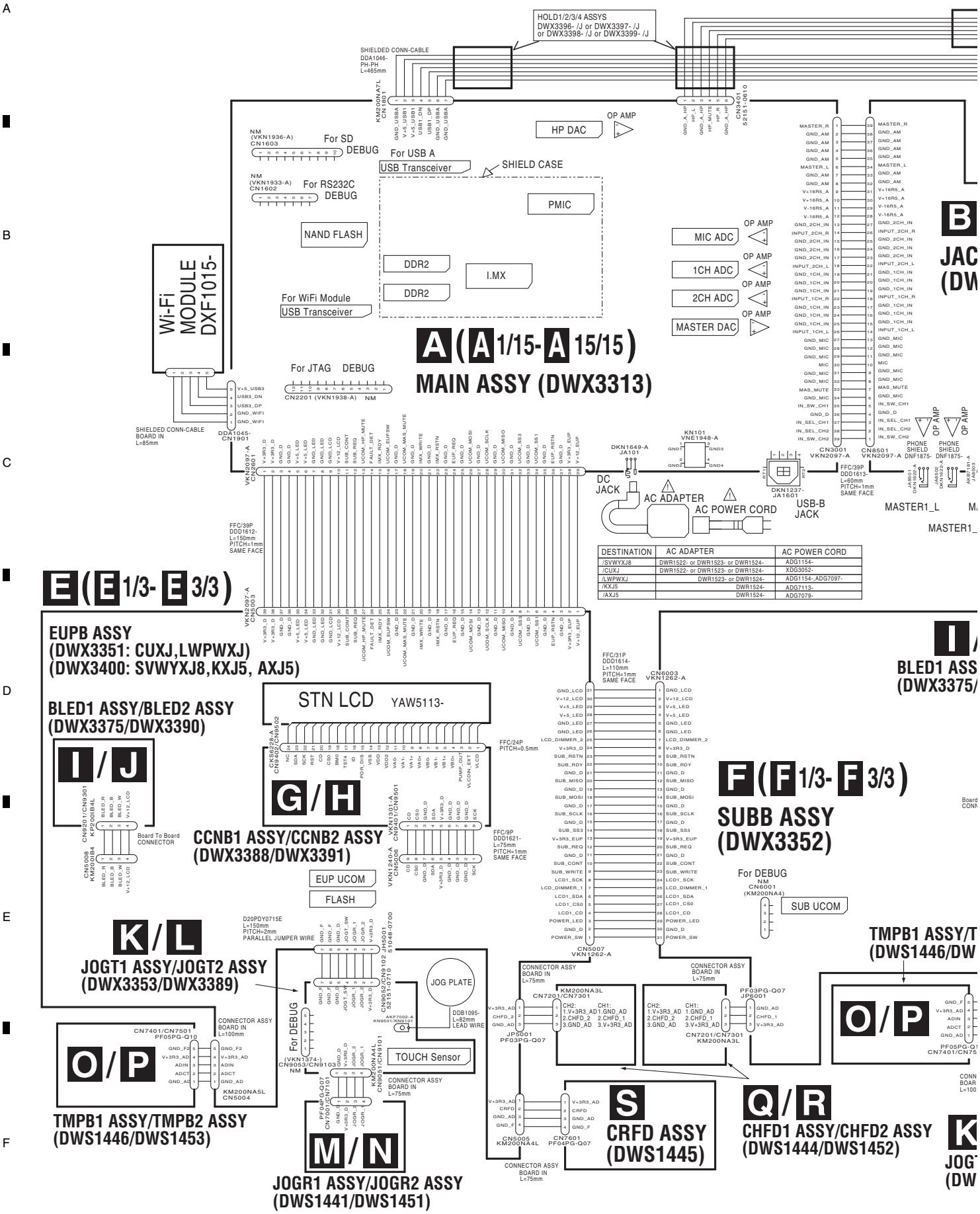
Note:
The HOLD ASSYs 1–4 have the same board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, any of 1 to 4 Assy of the respective Assys is assembled in the respective place.

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

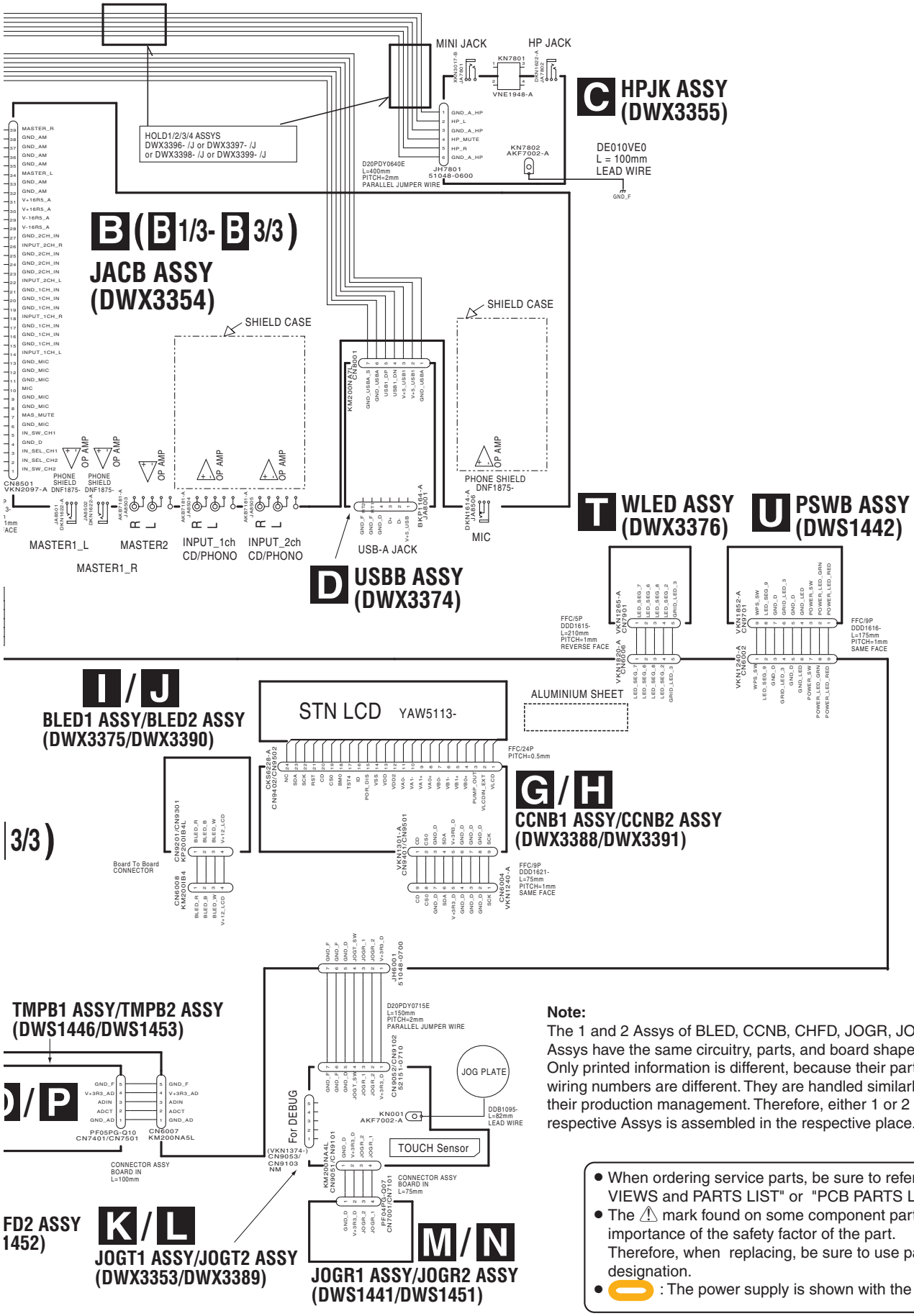
LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN ASSY	DWX3313
NSP	1	PNL1 ASSY (CUXJ, LWPWXJ)	DWM2467
NSP	1	PNL1 ASSY (SVWYXJ8, KXJ5, AXJ5)	DWM2478
	2	PSWB ASSY	DWS1442
	2	JOGT1 ASSY	DWX3353
	2	USBB ASSY	DWX3374
	2	BLED1 ASSY	DWX3375
	2	WLED ASSY	DWX3376
	2	CCNB1 ASSY	DWX3388
	2	JOGT2 ASSY	DWX3389
	2	CCNB2 ASSY	DWX3390
	2	LCDB2 ASSY	DWX3391
	2	EUPB ASSY (CUXJ, LWPWXJ)	DWX3351
	2	EUPB ASSY (SVWYXJ8, KXJ5, AXJ5)	DWX3400
NSP	1	PNL2 ASSY	DWM2468
	2	SUBB ASSY	DWX3352
	2	HOLD1 ASSY	DWX3396
	2	HOLD2 ASSY	DWX3397
	2	HOLD3 ASSY	DWX3398
	2	HOLD4 ASSY	DWX3399
NSP	1	PNL3 ASSY	DWM2469
	2	JOGR1 ASSY	DWS1441
	2	CHFD ASSY	DWS1444
	2	CRFD ASSY	DWS1445
	2	TMPB ASSY	DWS1446
	2	JOGR2 ASSY	DWS1451
	2	CHFD2 ASSY	DWS1452
	2	TMPB2 ASSY	DWS1453
	2	JACB ASSY	DWX3354
	2	HPJK ASSY	DWX3355
		Wi-Fi MODULE	DXF1015

4. BLOCK DIAGRAM
4.1 OVERALL WIRING DIAGRAM



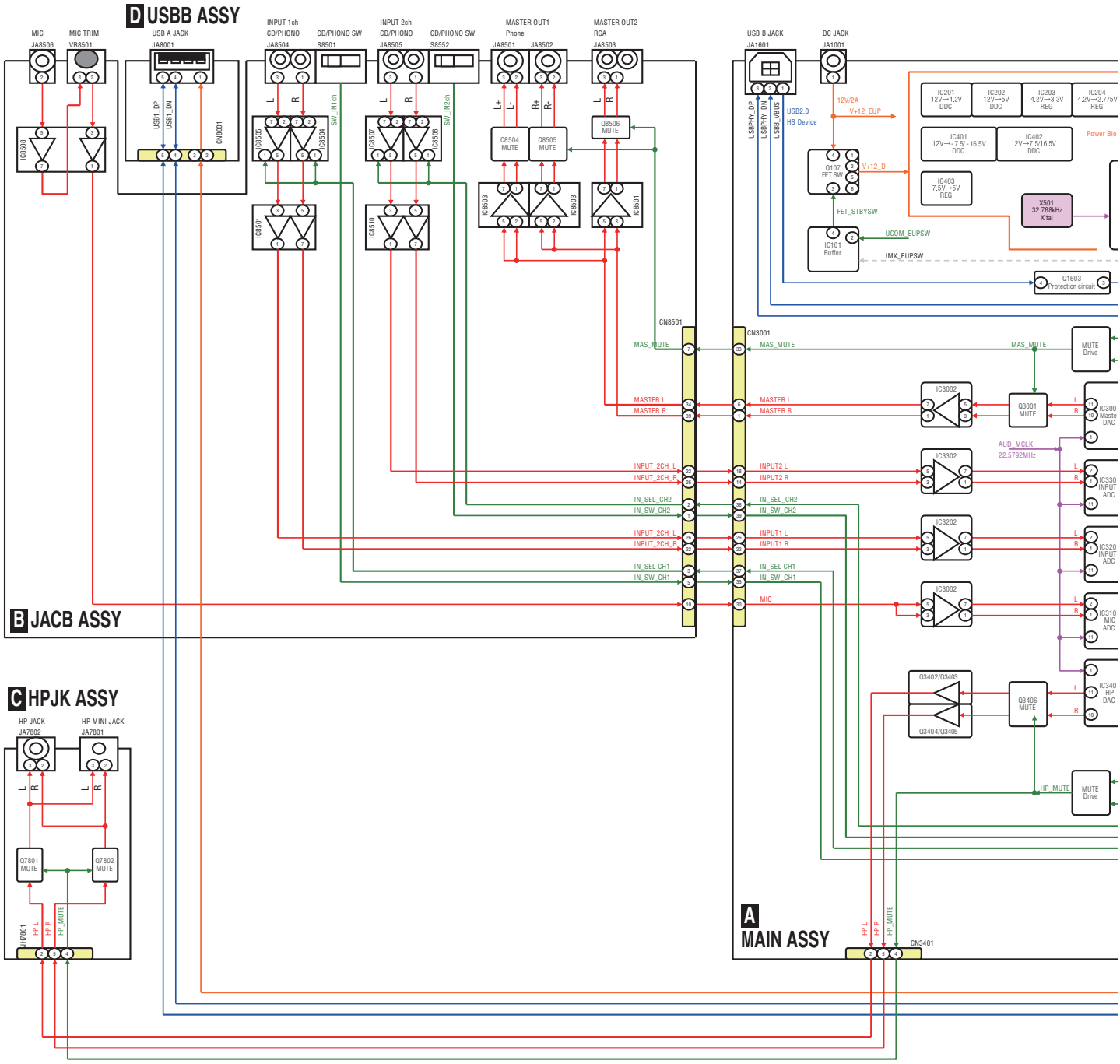
DESTINATION	AC ADAPTER	AC POWER CORD
/SVWYXJ8	DWR1522- or DWR1523- or DWR1524-	ADG1154-
/CUXJ	DWR1522- or DWR1523- or DWR1524-	XDG3052-
/LWPWXJ	DWR1523- or DWR1524-	ADG1154-,ADG7097-
/KXJ5	DWR1524-	ADG7113-
/AXJ5	DWR1524-	ADG7079-

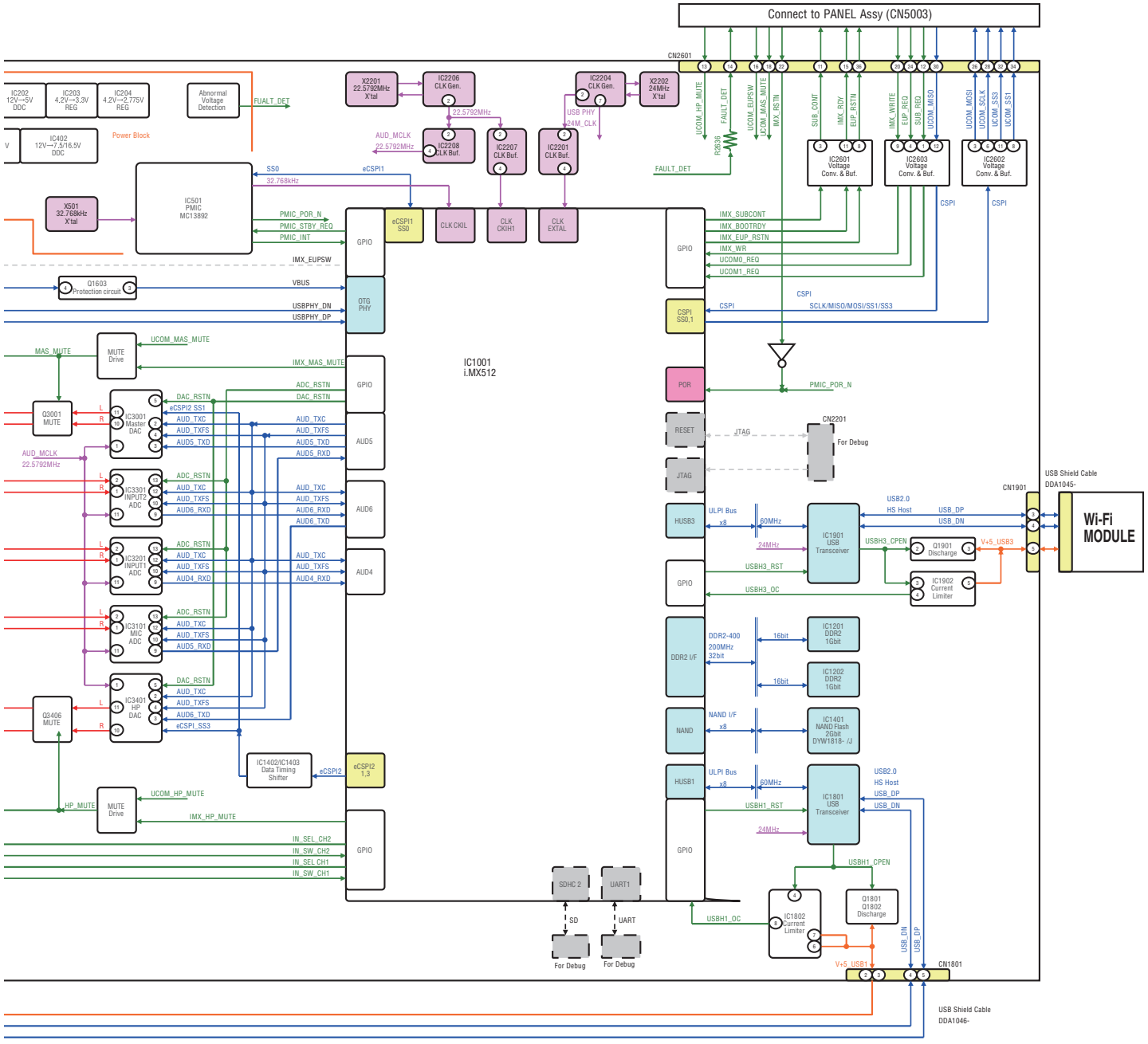


Note:
The 1 and 2 Assys of BLED, CCNB, CHFD, JOGR, JOGT, and TEMPB Assys have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

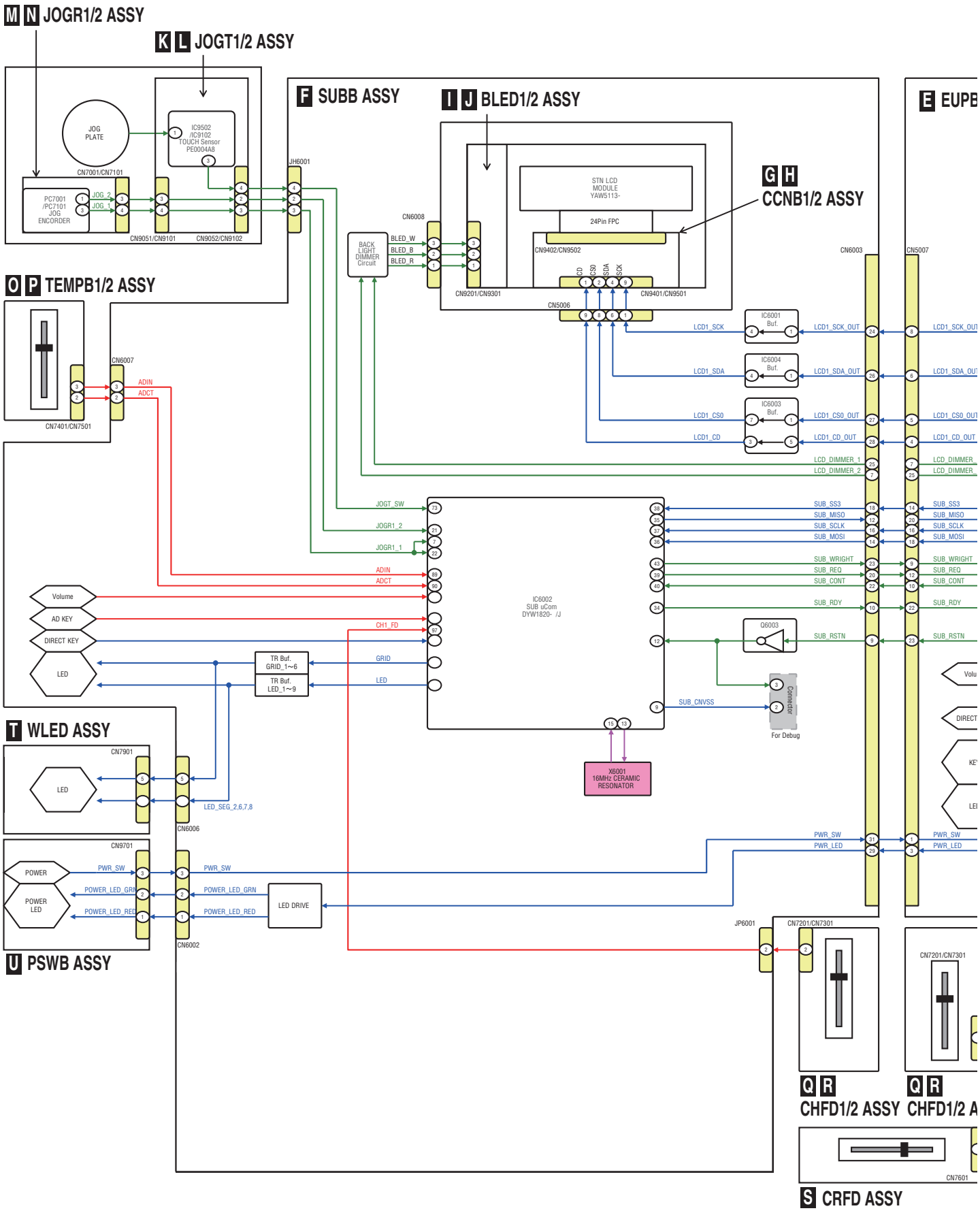
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
  Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply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

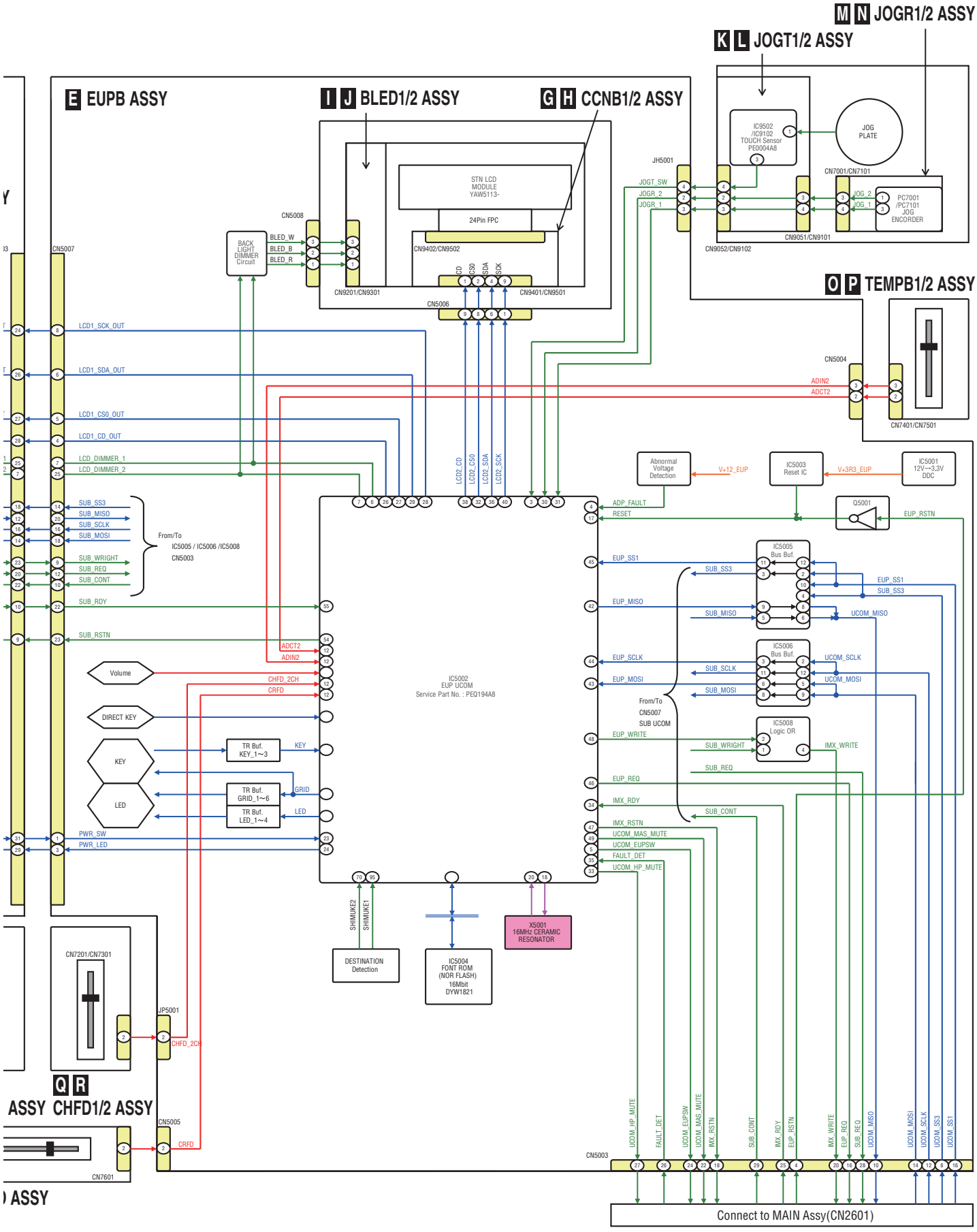
4.2 OVERALL BLOCK DIAGRAM (CHASSIS SECTION)



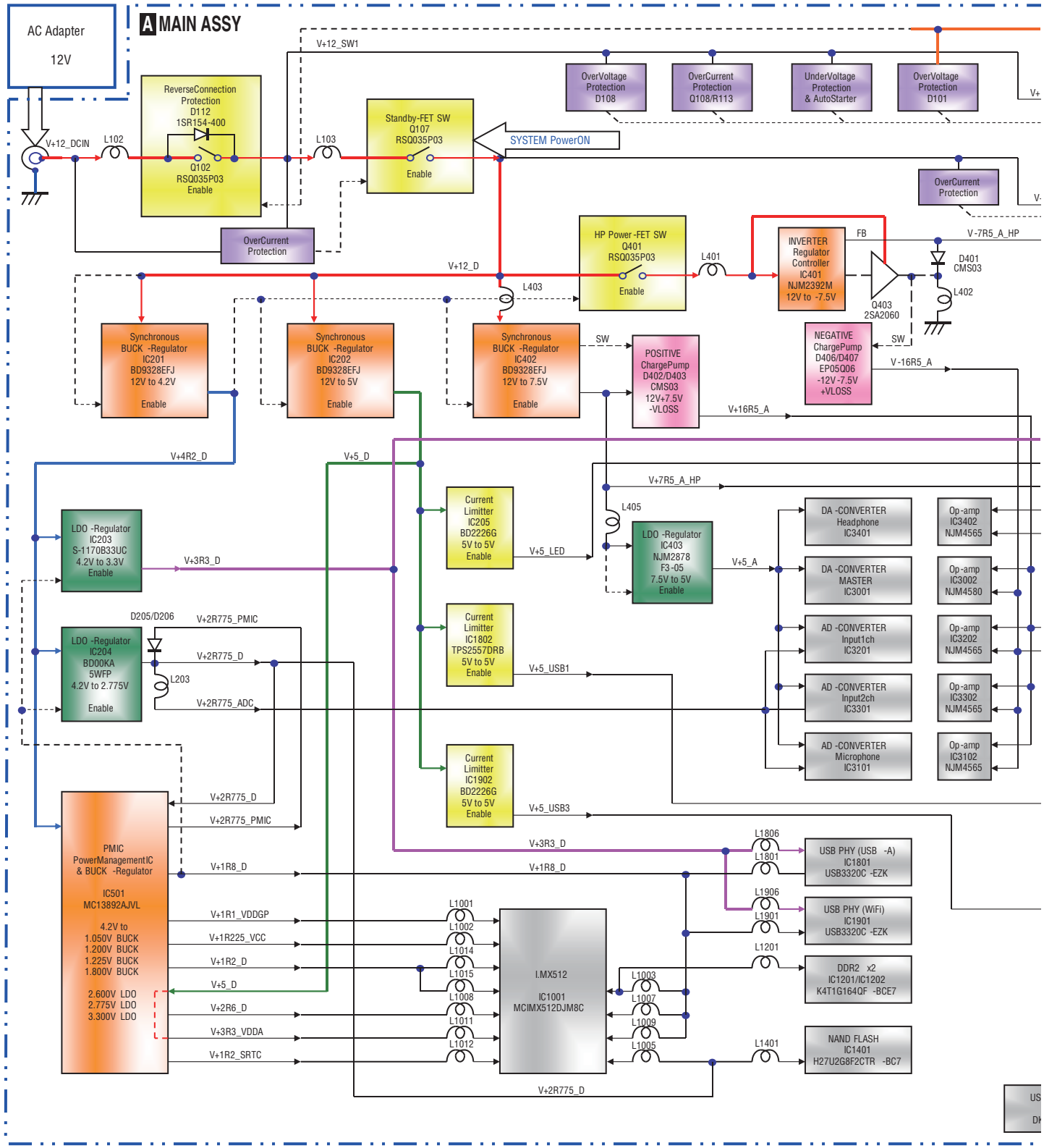

Connect to PANEL Assy (CN5003)
CN2601
IC202 12V→5V DDC
IC203 4.2V→3.3V REG
IC204 4.2V→2.775V REG
Abnormal Voltage Detection
FUALT_DET
IC402 12V→7.5/16.5V DDC
Power Block
X2201 22.5792MHz X'tal
IC2206 CLK Gen.
22.5792MHz
IC2204 CLK Gen.
X2202 24MHz X'tal
USB PHY 24M_CLK
AUD_MCLK 22.5792MHz
IC2208 CLK Buf.
IC2207 CLK Buf.
IC2201 CLK Buf.
UCOM_HP_MUTE
FAULT_DET
R2836
UCOM_EUPSW
UCOM_MAS_MUTE
IMX_RSTN
SUB_CONT
IMX_RDY
EUP_RSTN
IMX_WRITE
EUP_REQ
SUB_REQ
UCOM_MISO
UCOM_MOSI
UCOM_SCLK
UCOM_SS3
UCOM_SS1
IC2601 Voltage Conv. & Buf.
IC2603 Voltage Conv. & Buf.
IC2602 Voltage Conv. & Buf.
CSPI
X501 32.768kHz X'tal
IC501 PMIC MC13892
SS0
32.768kHz
eCSPI1
PMIC_POR_N
PMIC_STBY_REQ
PMIC_INT
IMX_EUPSW
Q1603 Protection circuit
VBUS
USBPHY_DN
USBPHY_DP
GPIO
eCSPI1 SS0
CLK CKIL
CLK CKIH1
CLK EXTAL
OTG PHY
IC1001
i.MX512
IMX_SUBCONT
IMX_BOOTRDY
IMX_EUP_RSTN
IMX_WR
UCOM0_REQ
UCOM1_REQ
CSPI SS0,1
SCLK/MISO/MOSI/SS1/SS3
POR
PMIC_POR_N
RESET
JTAG
CN2201
For Debug
MAS_MUTE
MUTE Drive
UCOM_MAS_MUTE
IMX_MAS_MUTE
Q3001 MUTE
IC3001 Master DAC
IC3201 INPUT2 ADC
IC3101 INPUT1 MIC ADC
IC3401 HP DAC
Q3406 MUTE
DAC_RSTN
ADC_RSTN
eCSPI2 SS1
eCSPI_SS3
AUD_TXC
AUD_TXFS
AUD5_TXD
AUD5_RXD
AUD6_RXD
AUD6_TXD
AUD4_RXD
AUD5
AUD6
AUD4
IC1402/IC1403 Data Timing Shifter
eCSPI2 1,3
HP_MUTE
UCOM_HP_MUTE
IMX_HP_MUTE
IN_SEL_CH2
IN_SW_CH2
IN_SEL_CH1
IN_SW_CH1
HUSB3
ULPI Bus x8
60MHz
24MHz
IC1901 USB Transceiver
USB2.0 HS Host
USB_DP
USB_DN
USBH3_CPEN
Q1901 Discharge
V+5_USB3
IC1902 Current Limiter
USBH3_RST
USBH3_OC
CN1901
USB Shield Cable DDA1045-
Wi-Fi MODULE
DDR2 I/F
DDR2-400 200MHz 32bit
16bit
IC1201 DDR2 1Gbit
IC1202 DDR2 1Gbit
NAND
NAND I/F x8
IC1401 NAND Flash 2Gbit DYW1818- /J
HUSB1
IC1801 USB Transceiver
USBH1_RST
USBH1_CPEN
IC1802 Current Limiter
Q1801 Q1802 Discharge
V+5_USB1
CN1801
USB Shield Cable DDA1046-
SDHC 2
UART1
SD
UART
For Debug
USBH1_OC

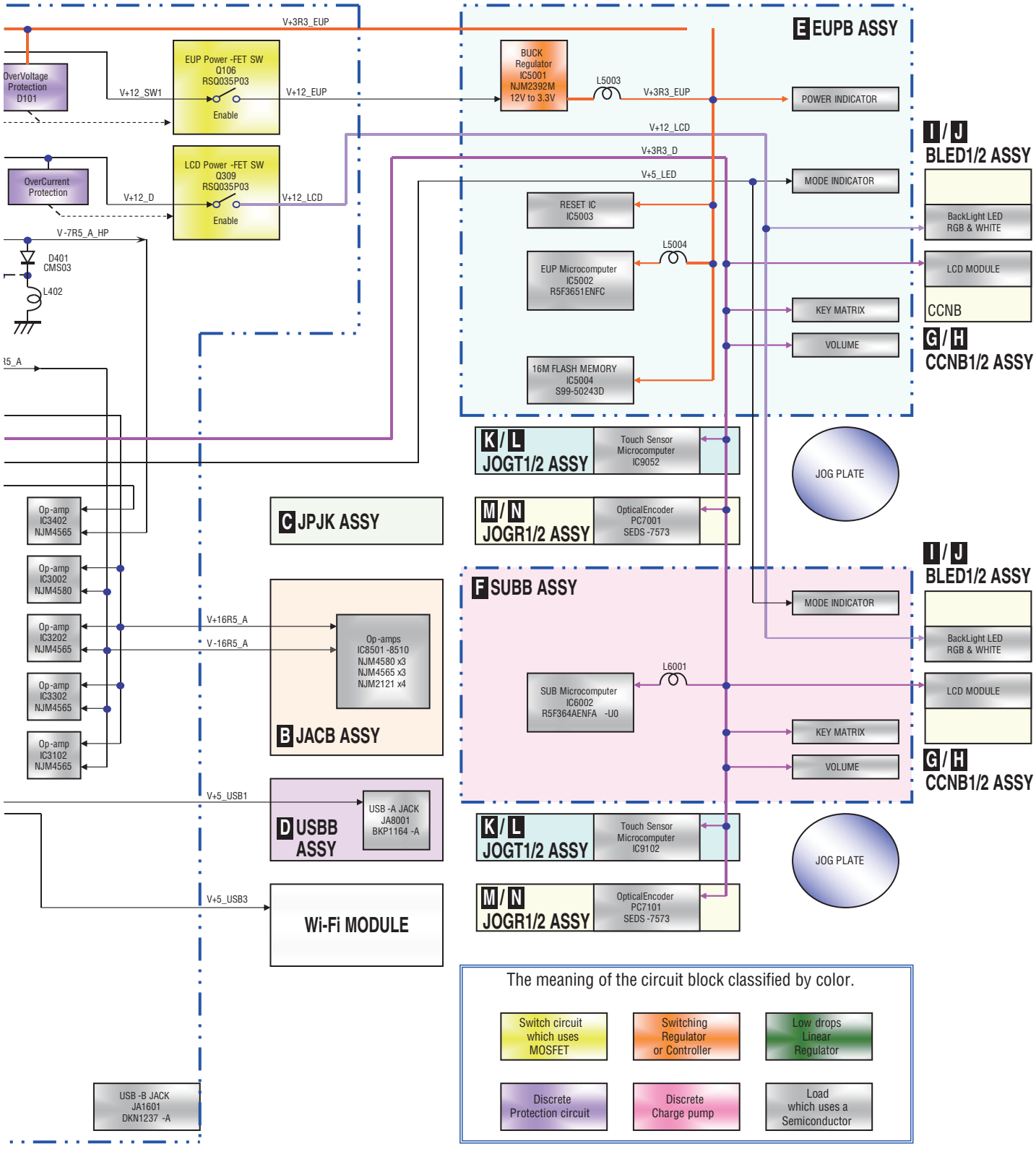
4.3 OVERALL BLOCK DIAGRAM (PANEL SECTION)



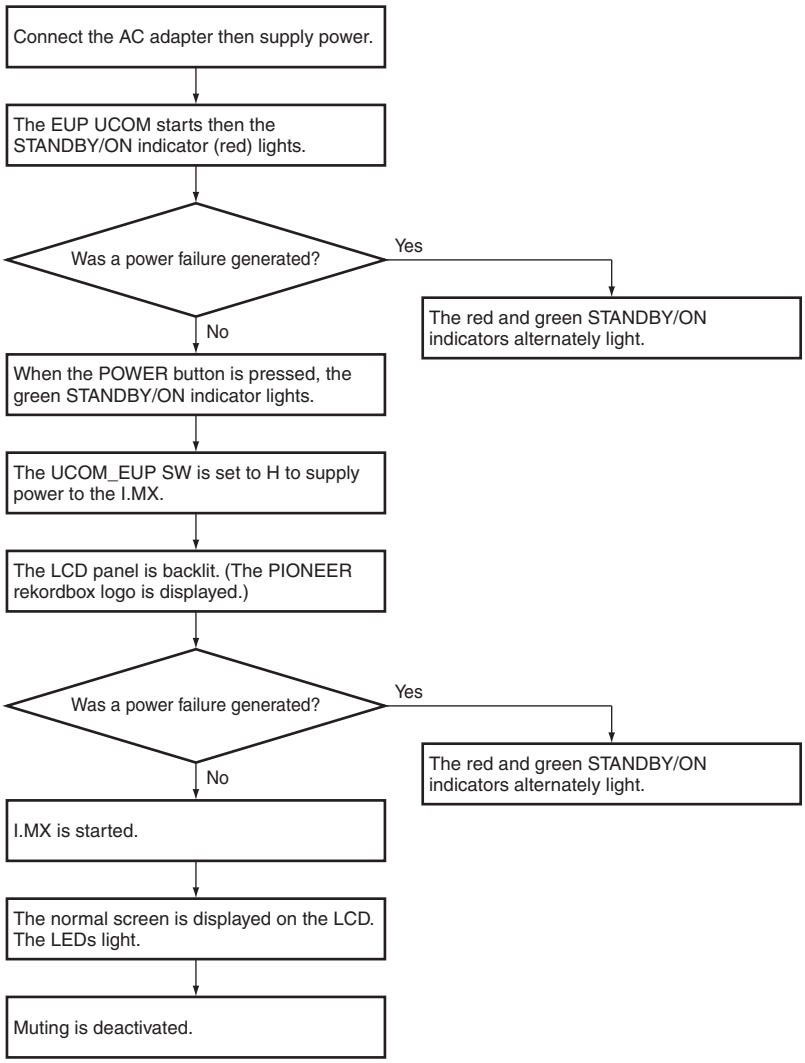

M N JOGR1/2 ASSY
K L JOGT1/2 ASSY
E EUPB ASSY
I J BLED1/2 ASSY
G H CCNB1/2 ASSY
O P TEMPB1/2 ASSY
Q R CHFD1/2 ASSY
IC9502 /IC9102 TOUCH Sensor PE0004A8
JOG PLATE
CN7001/CN7101
PC7001 /PC7101 JOG ENCORDER
JH5001
JOGT_SW
JOGR_2
JOGR_1
JOG_2
JOG_1
CN9051/CN9101
CN9052/CN9102
STN LCD MODULE YAW5113-
24Pin FPC
CN9402/CN9502
CN9201/CN9301
CN9401/CN9501
CN5008
CN5006
BACK LIGHT DIMMER Circuit
BLED_W
BLED_B
BLED_R
LCD_CD
LCD_CS0
LCD_SDA
LCD_SCK
CN5004
ADIN2
ADCT2
CN7401/CN7501
CN5007
LCD1_SCK_OUT
LCD1_SDA_OUT
LCD1_CS0_OUT
LCD1_CD_OUT
LCD_DIMMER_1
LCD_DIMMER_2
SUB_SS3
SUB_MISO
SUB_SCLK
SUB_MOSI
From/To IC5005 / IC5006 /IC5008 CN5003
SUB_WRIGHT
SUB_REQ
SUB_CONT
SUB_RDY
SUB_RSTN
Volume
DIRECT KEY
KEY
LED
TR Buf. KEY_1~3
TR Buf. GRID_1~6
TR Buf. LED_1~4
PWR_SW
PWR_LED
IC5002 EUP UCOM Service Part No. : PEQ194A8
Abnormal Voltage Detection
V+12_EUP
IC5003 Reset IC
V+3R3_EUP
IC5001 12V→3.3V DDC
ADP_FAULT
RESET
Q5001
EUP_RSTN
IC5005 Bus Buf.
EUP_SS1
EUP_MISO
EUP_SCLK
EUP_MOSI
UCOM_MISO
IC5006 Bus Buf.
UCOM_SCLK
UCOM_MOSI
From/To CN5007 SUB UCOM
IC5008 Logic OR
EUP_WRITE
SUB_WRIGHT
IMX_WRITE
EUP_REQ
SUB_REQ
IMX_RDY
SUB_CONT
IMX_RSTN
UCOM_MAS_MUTE
UCOM_EUPSW
FAULT_DET
UCOM_HP_MUTE
SHIMUKE2
SHIMUKE1
DESTINATION Detection
IC5004 FONT ROM (NOR FLASH) 16Mbit DYW1821
X5001 16MHz CERAMIC RESONATOR
CN7201/CN7301
JP5001
CHFD_2CH
CN5005
CRFD
CN7601
CN5003
Connect to MAIN Assy(CN2601)

4.4 POWER BLOCK DIAGRAM




E EUPB ASSY
V+3R3_EUP
BUCK Regulator IC5001 NJM2392M 12V to 3.3V
L5003
V+3R3_EUP
POWER INDICATOR
EUP Power -FET SW Q106 RSQ035P03
Enable
V+12_SW1
V+12_EUP
OverVoltage Protection D101
V+12_LCD
V+3R3_D
V+5_LED
MODE INDICATOR
I / J BLED1/2 ASSY
BackLight LED RGB & WHITE
LCD Power -FET SW Q309 RSQ035P03
Enable
V+12_D
V+12_LCD
OverCurrent Protection
RESET IC IC5003
L5004
EUP Microcomputer IC5002 R5F3651ENFC
LCD MODULE
CCNB
V-7R5_A_HP
D401 CMS03
L402
KEY MATRIX
VOLUME
G / H CCNB1/2 ASSY
16M FLASH MEMORY IC5004 S99-50243D
K / L JOGT1/2 ASSY
Touch Sensor Microcomputer IC9052
JOG PLATE
M / N JOGR1/2 ASSY
OpticalEncoder PC7001 SEDS -7573
C JPJK ASSY
Op-amp IC3402 NJM4565
Op-amp IC3002 NJM4580
Op-amp IC3202 NJM4565
Op-amp IC3302 NJM4565
Op-amp IC3102 NJM4565
F SUBB ASSY
MODE INDICATOR
I / J BLED1/2 ASSY
BackLight LED RGB & WHITE
V+16R5_A
V-16R5_A
Op-amps IC8501 -8510 NJM4580 x3 NJM4565 x3 NJM2121 x4
L6001
SUB Microcomputer IC6002 R5F364AENFA -U0
LCD MODULE
B JACB ASSY
KEY MATRIX
VOLUME
G / H CCNB1/2 ASSY
V+5_USB1
D USBB ASSY
USB -A JACK JA8001 BKP1164 -A
K / L JOGT1/2 ASSY
Touch Sensor Microcomputer IC9102
JOG PLATE
M / N JOGR1/2 ASSY
OpticalEncoder PC7101 SEDS -7573
V+5_USB3
Wi-Fi MODULE
USB -B JACK JA1601 DKN1237 -A
The meaning of the circuit block classified by color.
Switch circuit which uses MOSFET
Switching Regulator or Controller
Low drops Linear Regulator
Discrete Protection circuit
Discrete Charge pump
Load which uses a Semiconductor

5. DIAGNOSIS
5.1 SETUP SEQUENCE



5.2 TROUBLESHOOTING

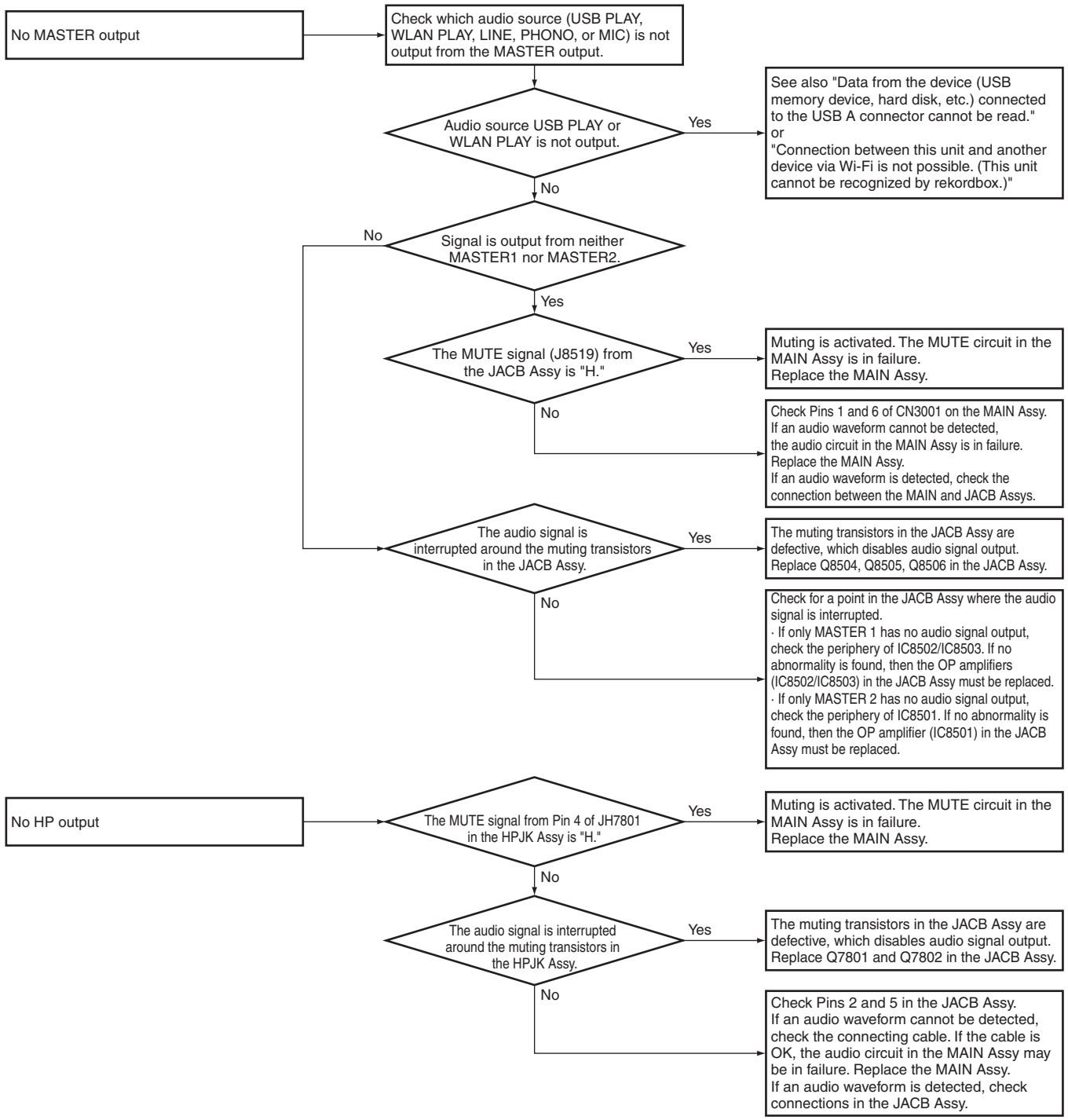
Before starting troubleshooting, check that all cable connectors are properly engaged.

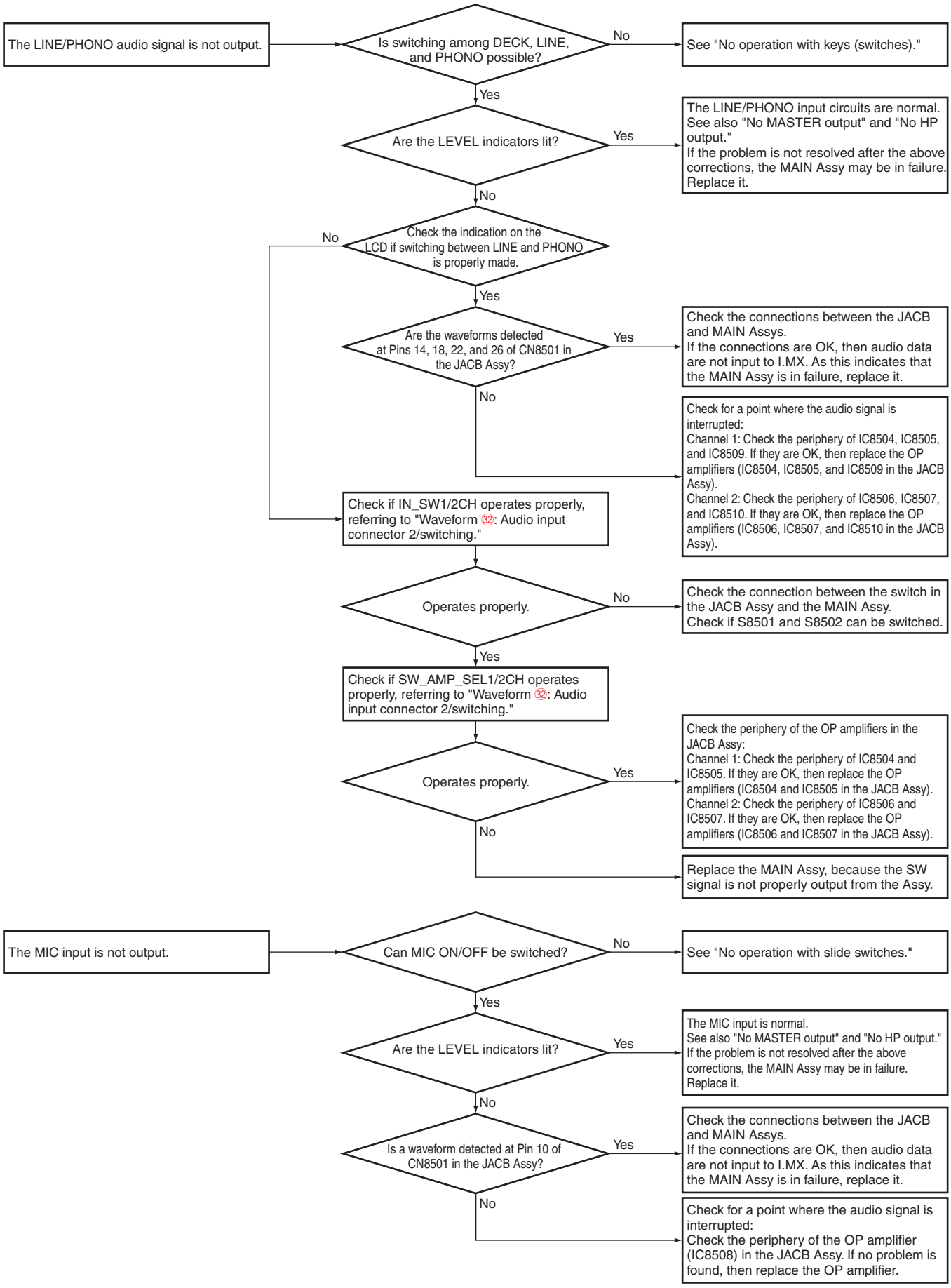
Before replacing a microcomputer, check also the items shown below.

If failure in the EUP UCOM (IC5002) is suspected: → Check the voltage, oscillation waveforms of the X'tal, and canceling of reset, referring to "Waveform ①: AC adapter connection." Points to be checked: X5001(TP5014) and TP5032 in the EUPB Assy

If failure in the SUB UCOM (IC6002) is suspected: → Check the voltage, oscillation waveforms of the X'tal, and canceling of reset, referring to "Waveform ㉘: Startup of the SUB UCOM." Points to be checked: X6001 and TP6258 in the EUPB Assy

Trouble in the audio system




The LINE/PHONO audio signal is not output.
Is switching among DECK, LINE, and PHONO possible?
No
See "No operation with keys (switches)."
Yes
Are the LEVEL indicators lit?
Yes
The LINE/PHONO input circuits are normal.
See also "No MASTER output" and "No HP output."
If the problem is not resolved after the above corrections, the MAIN Assy may be in failure.
Replace it.
No
Check the indication on the LCD if switching between LINE and PHONO is properly made.
No
Yes
Are the waveforms detected at Pins 14, 18, 22, and 26 of CN8501 in the JACB Assy?
Yes
Check the connections between the JACB and MAIN Assys.
If the connections are OK, then audio data are not input to I.MX. As this indicates that the MAIN Assy is in failure, replace it.
No
Check for a point where the audio signal is interrupted:
Channel 1: Check the periphery of IC8504, IC8505, and IC8509. If they are OK, then replace the OP amplifiers (IC8504, IC8505, and IC8509 in the JACB Assy).
Channel 2: Check the periphery of IC8506, IC8507, and IC8510. If they are OK, then replace the OP amplifiers (IC8506, IC8507, and IC8510 in the JACB Assy).
Check if IN_SW1/2CH operates properly, referring to "Waveform 32: Audio input connector 2/switching."
Operates properly.
No
Check the connection between the switch in the JACB Assy and the MAIN Assy.
Check if S8501 and S8502 can be switched.
Yes
Check if SW_AMP_SEL1/2CH operates properly, referring to "Waveform 32: Audio input connector 2/switching."
Operates properly.
Yes
Check the periphery of the OP amplifiers in the JACB Assy:
Channel 1: Check the periphery of IC8504 and IC8505. If they are OK, then replace the OP amplifiers (IC8504 and IC8505 in the JACB Assy).
Channel 2: Check the periphery of IC8506 and IC8507. If they are OK, then replace the OP amplifiers (IC8506 and IC8507 in the JACB Assy).
No
Replace the MAIN Assy, because the SW signal is not properly output from the Assy.
The MIC input is not output.
Can MIC ON/OFF be switched?
No
See "No operation with slide switches."
Yes
Are the LEVEL indicators lit?
Yes
The MIC input is normal.
See also "No MASTER output" and "No HP output."
If the problem is not resolved after the above corrections, the MAIN Assy may be in failure.
Replace it.
No
Is a waveform detected at Pin 10 of CN8501 in the JACB Assy?
Yes
Check the connections between the JACB and MAIN Assys.
If the connections are OK, then audio data are not input to I.MX. As this indicates that the MAIN Assy is in failure, replace it.
No
Check for a point where the audio signal is interrupted:
Check the periphery of the OP amplifier (IC8508) in the JACB Assy. If no problem is found, then replace the OP amplifier.

Trouble with the operating elements or LEDs

Direct-input keys
SUBB Assy:
CUE, PLAY/PAUSE, TRANS, FLANGER, ECHO, ROLL, MASTER, AUTO MIX, HP CH1, HP CH2, INPUT SELECT, AUTO BEAT LOOP PUSH, BROWSE PUSH, CROSS F. CURVE, JOGT_SW

EUPB Assy:
CUE, PLAY/PAUSE, TRANS, FLANGER, ECHO, ROLL, AUTO BEAT LOOP PUSH, JOGT_SW

MAIN Assy:
Phono1/Line1 SW, Phono2/Line2 SW

A/D keys
SUBB Assy:
BACK, JOG DRUM, SAMPLE LAUNCH, SHIFT, MIDI, USB, rekordbox, TIME, INFO, TEMPO, MASTER TEMPO, SYNC USB STOP, MASTER REC

Matrix keys
EUPB Assy:
BACK, JOG DRUM, SAMPLE LAUNCH, SHIFT, MIDI, USB, rekordbox, TIME, INFO, TEMPO, MASTER TEMPO, SYNC MIC, INPUT SELECT, BROWSE PUSH, AUTO BEAT LOOP PUSH

Some of the matrix keys (SW) do not function, and some of the LEDs cannot light.

Check on the circuit diagram if the inoperable keys and LEDs use the same grid.

Is the same grid used?

Yes: Check the corresponding grid, referring to "Waveform ⑮: Grid control." If no grid waveform is output from the microcomputer, check if the grid line is short-circuited to ground because of failure in the keys, LEDs, or LED drive transistors. Also check the connection of the grid line. If no problem is found with the grid line, replace the microcomputer (IC5002) in the EUPB Assy.

No: See "No operation with keys (switches), No operation with slide switches, No response to pressing the rotary selector," or "The LEDs do not light."

No operation with keys (switches), No operation with slide switches, No response to pressing the rotary selector

No operating elements on the SUBB Assy side are operable.

Yes: As failure of the communication line between the SUBB and EUPB Assys is suspected, check the line, referring to "Waveform ㉓: Communications between microcomputers."

No
Only some of the keys are inoperable.

Only the direct-input keys are inoperable.

Yes: Check that current is conducted between the terminals of the switch when it is pressed. If current is not conducted, replace the switch. Check the line between the switch and the microcomputer. If the line is OK, replace the microcomputer to which the switch is connected, as follows: EUPB Assy: IC5002, EUPB Assy: IC6002.

No

The A/D keys in the SUBB Assy are inoperable.

Yes: Check that current is conducted between the terminals of the switch when it is pressed. If current is not conducted, replace the switch. When a switch is pressed, the voltage divided by the resistance that is corresponding to the pressed switch will be input to the microcomputer. Check the partial resistance in the periphery and the connection line between the switch and the microcomputer, referring to "Waveform ㉚: A/D key import." If no problem is found, replace the microcomputer (IC6002) in the SUBB Assy.

No

The matrix keys in the EUPB Assy are inoperable.

No matrix keys connected to the same grid are operable.

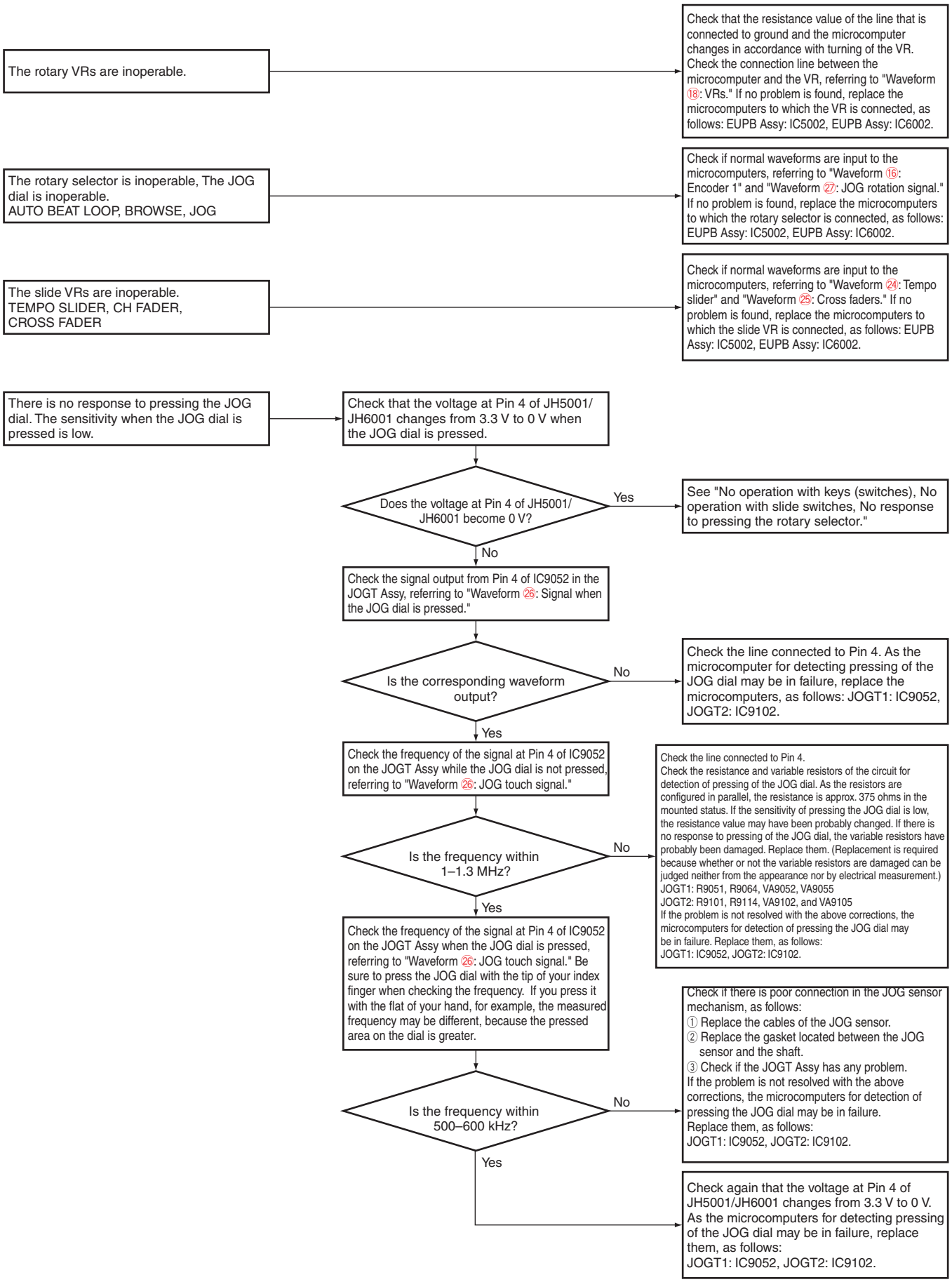
Yes: Check the corresponding grid, referring to "Waveform ⑮: Grid control." If the grid waveform output from the microcomputer is abnormal, check if the grid line is short-circuited to ground because of failure in the key, LED, or LED drive transistor (placed between the LED and transistor). Check also the connection of the grid line. If no problem is found, replace the microcomputer (IC6002) in the SUBB Assy.

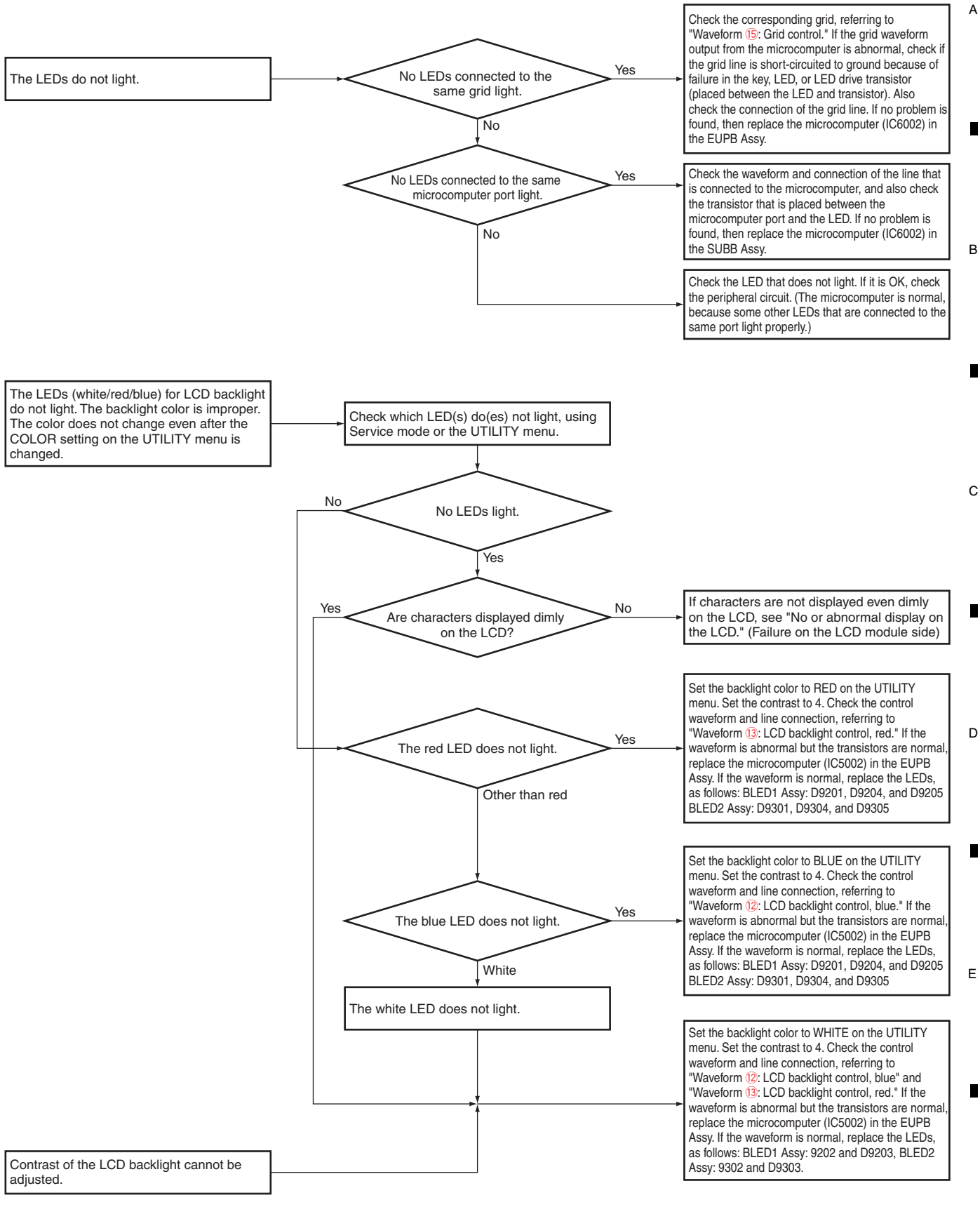
No

No keys connected to the same microcomputer port are operable.

Yes: Check the transistors on the line that is connected to the microcomputer port and waveforms and connections of the line. If no problem is found, replace the microcomputer (IC6002) in the SUBB Assy.

No: Check that current is conducted between the terminals of the switch when it is pressed. If current is not conducted, replace the switch. Check the diodes between the switch and the microcomputer. (The microcomputer is normal, because the keys (switches) that are connected to the same port function properly.)


The rotary VRs are inoperable.
Check that the resistance value of the line that is connected to ground and the microcomputer changes in accordance with turning of the VR. Check the connection line between the microcomputer and the VR, referring to "Waveform ⑱: VRs." If no problem is found, replace the microcomputers to which the VR is connected, as follows: EUPB Assy: IC5002, EUPB Assy: IC6002.
The rotary selector is inoperable, The JOG dial is inoperable.
AUTO BEAT LOOP, BROWSE, JOG
Check if normal waveforms are input to the microcomputers, referring to "Waveform ⑯: Encoder 1" and "Waveform ㉗: JOG rotation signal." If no problem is found, replace the microcomputers to which the rotary selector is connected, as follows: EUPB Assy: IC5002, EUPB Assy: IC6002.
The slide VRs are inoperable.
TEMPO SLIDER, CH FADER,
CROSS FADER
Check if normal waveforms are input to the microcomputers, referring to "Waveform ㉔: Tempo slider" and "Waveform ㉕: Cross faders." If no problem is found, replace the microcomputers to which the slide VR is connected, as follows: EUPB Assy: IC5002, EUPB Assy: IC6002.
There is no response to pressing the JOG dial. The sensitivity when the JOG dial is pressed is low.
Check that the voltage at Pin 4 of JH5001/ JH6001 changes from 3.3 V to 0 V when the JOG dial is pressed.
Does the voltage at Pin 4 of JH5001/ JH6001 become 0 V?
Yes
See "No operation with keys (switches), No operation with slide switches, No response to pressing the rotary selector."
No
Check the signal output from Pin 4 of IC9052 in the JOGT Assy, referring to "Waveform ㉖: Signal when the JOG dial is pressed."
Is the corresponding waveform output?
No
Check the line connected to Pin 4. As the microcomputer for detecting pressing of the JOG dial may be in failure, replace the microcomputers, as follows: JOGT1: IC9052, JOGT2: IC9102.
Yes
Check the frequency of the signal at Pin 4 of IC9052 on the JOGT Assy while the JOG dial is not pressed, referring to "Waveform ㉖: JOG touch signal."
Is the frequency within 1–1.3 MHz?
No
Check the line connected to Pin 4.
Check the resistance and variable resistors of the circuit for detection of pressing of the JOG dial. As the resistors are configured in parallel, the resistance is approx. 375 ohms in the mounted status. If the sensitivity of pressing the JOG dial is low, the resistance value may have been probably changed. If there is no response to pressing of the JOG dial, the variable resistors have probably been damaged. Replace them. (Replacement is required because whether or not the variable resistors are damaged can be judged neither from the appearance nor by electrical measurement.)
JOGT1: R9051, R9064, VA9052, VA9055
JOGT2: R9101, R9114, VA9102, and VA9105
If the problem is not resolved with the above corrections, the microcomputers for detection of pressing the JOG dial may be in failure. Replace them, as follows:
JOGT1: IC9052, JOGT2: IC9102.
Yes
Check the frequency of the signal at Pin 4 of IC9052 on the JOGT Assy when the JOG dial is pressed, referring to "Waveform ㉖: JOG touch signal." Be sure to press the JOG dial with the tip of your index finger when checking the frequency. If you press it with the flat of your hand, for example, the measured frequency may be different, because the pressed area on the dial is greater.
Is the frequency within 500–600 kHz?
No
Check if there is poor connection in the JOG sensor mechanism, as follows:
① Replace the cables of the JOG sensor.
② Replace the gasket located between the JOG sensor and the shaft.
③ Check if the JOGT Assy has any problem.
If the problem is not resolved with the above corrections, the microcomputers for detection of pressing the JOG dial may be in failure.
Replace them, as follows:
JOGT1: IC9052, JOGT2: IC9102.
Yes
Check again that the voltage at Pin 4 of JH5001/JH6001 changes from 3.3 V to 0 V. As the microcomputers for detecting pressing of the JOG dial may be in failure, replace them, as follows:
JOGT1: IC9052, JOGT2: IC9102.


The LEDs do not light.
No LEDs connected to the same grid light.
Yes
Check the corresponding grid, referring to "Waveform ⑮: Grid control." If the grid waveform output from the microcomputer is abnormal, check if the grid line is short-circuited to ground because of failure in the key, LED, or LED drive transistor (placed between the LED and transistor). Also check the connection of the grid line. If no problem is found, then replace the microcomputer (IC6002) in the EUPB Assy.
No
No LEDs connected to the same microcomputer port light.
Yes
Check the waveform and connection of the line that is connected to the microcomputer, and also check the transistor that is placed between the microcomputer port and the LED. If no problem is found, then replace the microcomputer (IC6002) in the SUBB Assy.
No
Check the LED that does not light. If it is OK, check the peripheral circuit. (The microcomputer is normal, because some other LEDs that are connected to the same port light properly.)
The LEDs (white/red/blue) for LCD backlight do not light. The backlight color is improper. The color does not change even after the COLOR setting on the UTILITY menu is changed.
Check which LED(s) do(es) not light, using Service mode or the UTILITY menu.
No
No LEDs light.
Yes
Yes
Are characters displayed dimly on the LCD?
No
If characters are not displayed even dimly on the LCD, see "No or abnormal display on the LCD." (Failure on the LCD module side)
The red LED does not light.
Yes
Set the backlight color to RED on the UTILITY menu. Set the contrast to 4. Check the control waveform and line connection, referring to "Waveform ⑬: LCD backlight control, red." If the waveform is abnormal but the transistors are normal, replace the microcomputer (IC5002) in the EUPB Assy. If the waveform is normal, replace the LEDs, as follows: BLED1 Assy: D9201, D9204, and D9205 BLED2 Assy: D9301, D9304, and D9305
Other than red
The blue LED does not light.
Yes
Set the backlight color to BLUE on the UTILITY menu. Set the contrast to 4. Check the control waveform and line connection, referring to "Waveform ⑫: LCD backlight control, blue." If the waveform is abnormal but the transistors are normal, replace the microcomputer (IC5002) in the EUPB Assy. If the waveform is normal, replace the LEDs, as follows: BLED1 Assy: D9201, D9204, and D9205 BLED2 Assy: D9301, D9304, and D9305
White
The white LED does not light.
Set the backlight color to WHITE on the UTILITY menu. Set the contrast to 4. Check the control waveform and line connection, referring to "Waveform ⑫: LCD backlight control, blue" and "Waveform ⑬: LCD backlight control, red." If the waveform is abnormal but the transistors are normal, replace the microcomputer (IC5002) in the EUPB Assy. If the waveform is normal, replace the LEDs, as follows: BLED1 Assy: 9202 and D9203, BLED2 Assy: 9302 and D9303.
Contrast of the LCD backlight cannot be adjusted.

Failure in startup and in the communication system

Failure in the power system → See "5.3 VOLTAGE MONITORING"

Failure in startup and in the communication system

Startup is not completed.
After power-on, startup stops when "UPDATE" is displayed on the LCD and will not be completed.
→ Perform updating of the software.
- Startup has been completed properly. → Failure of previous updating of the firmware was the cause. (Power failure occurred during previous updating.)
- Startup was not completed, or updating failed. → See "Updating of the firmware does not start" in this flowchart.

Startup is not completed.
After power-on, startup stops when "rekordbox" is displayed on the LCD and will not be completed.
→ Communication between the MAIN Assy (I.MX) and the EUP UCOM may not have been established. Check the waveform of the serial communication signal. See "Waveform ㉓: Communications between microcomputers."

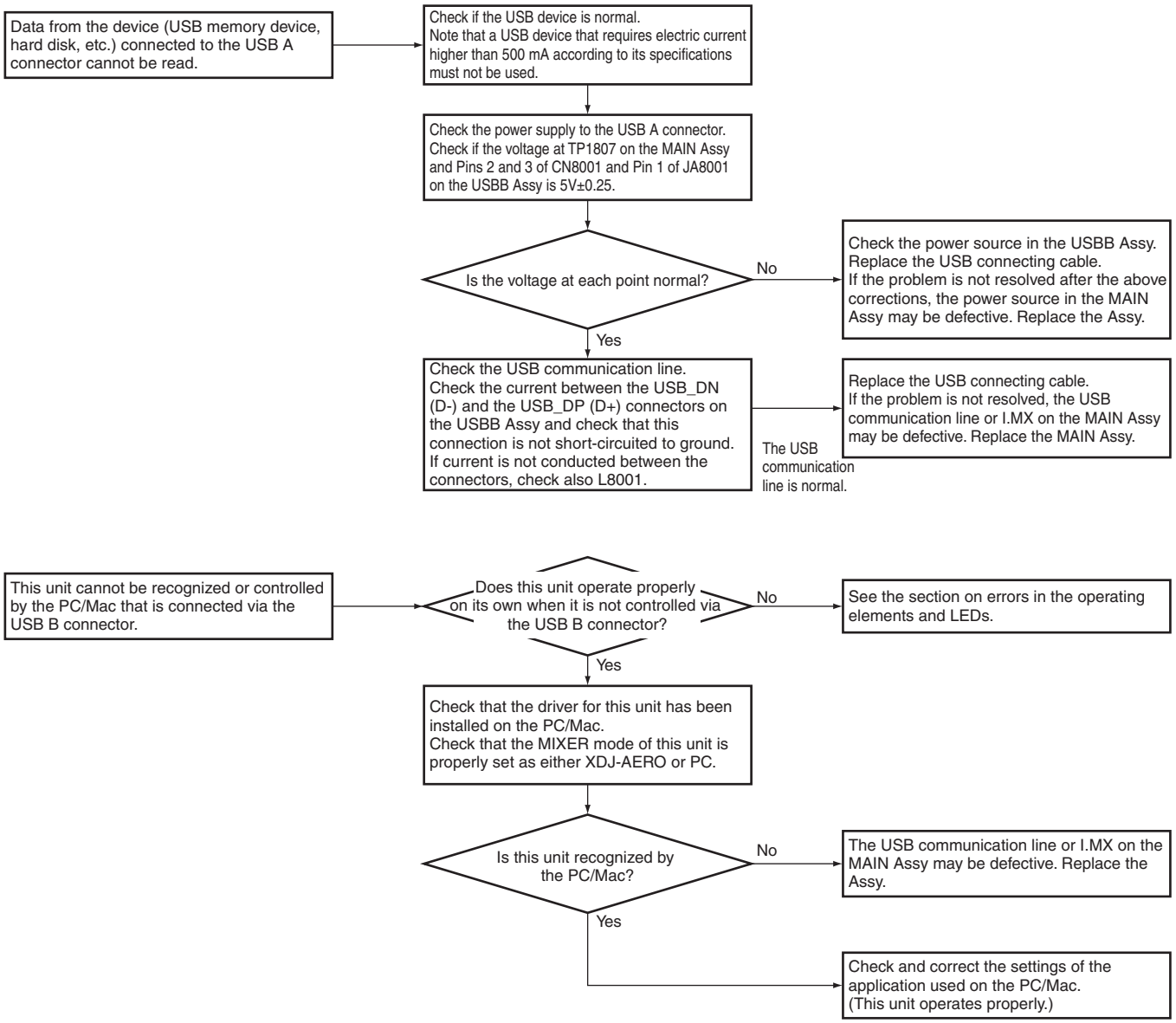
Updating not available
Updating of the firmware does not start.
→ Is "UPDATE" displayed on the LCD after power-on?
- No → Check the TRANS/ROLL key in the EUPB Assy, referring to the section on diagnosis in Service mode and "No operation with keys (switches)." If the key (SW) functions normally, the EUP UCOM may be in failure. Replace the IC5002 on the EUPB Assy.
- Yes → Check if the updating notification circuit on the EUPB Assy is normal. While "UPDATE" is displayed on the LCD, check that the voltage at Pin 20 of CN5003 (IMX_WRITE) on the EUPB Assy is 3.3 V.

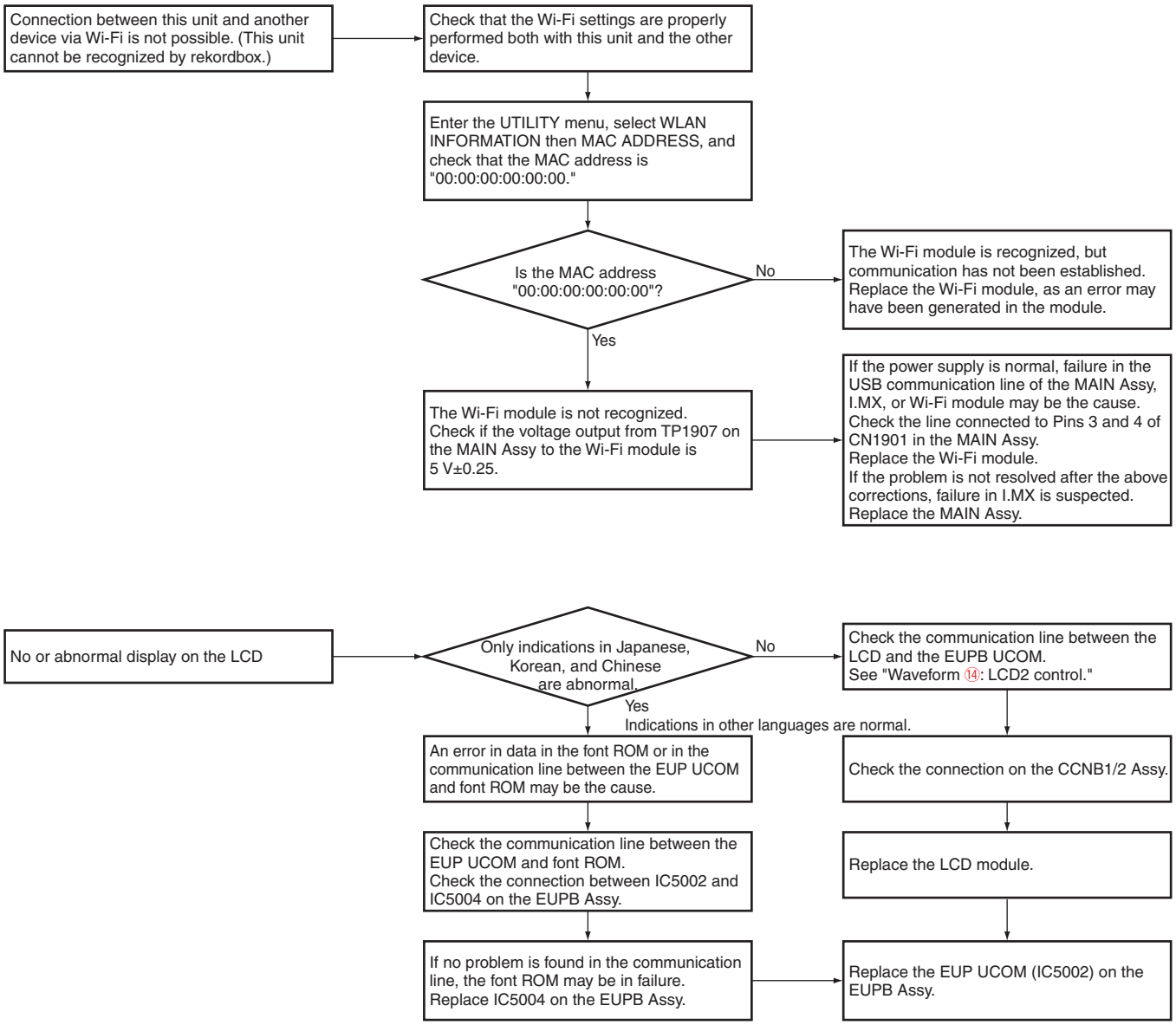
→ Is the voltage at Pin 20 of CN5003 3.3 V?
- No → Check that the voltage at Pin 2 of IC5008 on the EUPB Assy is 3.3 V. If it is, the IC5008 is defective. Replace it. If it is 0 V, check the connection between Pin 2 of IC5008 and the EUP UCOM. If the connection is proper, replace the EUP UCOM.
- Yes → Check if data on the USB memory device have been read. See "Data of the device (USB memory device, hard disk, etc.) connected to the USB A connector cannot be read" in this flowchart.

The device connected to the USB connector and the connector itself are normal. → I.MX cannot recognize the updating status. Check connection between the MAIN Assy and EUPB Assy. Check also the line connected to Pin 20 of CN2601 (IMX_WRITE) on the MAIN Assy. If no problem is found, IC1001 may be defective. Replace the MAIN Assy.

Updating not available
Updating of the firmware failed. "Firmware update failed" is displayed.
→ Updating was not possible because of errors in the program in the microcomputer or in the communication line.

→ Updating proceeds for the MAIN Assy, the SUB UCOM, then the EUP UCOM. You can infer at which stage the updating process failed from the meter indication for updating progress on the LCD during updating. If updating failed when progress indicated by the meter was approximately one-third, updating of the MAIN Assy failed. If updating failed when progress was between approximately one-third and two-thirds, updating of the SUB UCOM failed, and if updating failed when beyond two-thirds, updating of the EUP UCOM failed.
→ Check communications between the microcomputers. Check the waveform of the serial communication signal. See "Waveform ㉓ : Communications between microcomputers." If no problem is found with the waveform, replace the Assy or microcomputer, as follows:
MAIN Assy: Replace the Assy.
EUPB Assy: Replace IC5002.
EUPB Assy: Replace IC6002.


Data from the device (USB memory device, hard disk, etc.) connected to the USB A connector cannot be read.
Check if the USB device is normal.
Note that a USB device that requires electric current higher than 500 mA according to its specifications must not be used.
Check the power supply to the USB A connector.
Check if the voltage at TP1807 on the MAIN Assy and Pins 2 and 3 of CN8001 and Pin 1 of JA8001 on the USBB Assy is 5V±0.25.
Is the voltage at each point normal?
No
Check the power source in the USBB Assy.
Replace the USB connecting cable.
If the problem is not resolved after the above corrections, the power source in the MAIN Assy may be defective. Replace the Assy.
Yes
Check the USB communication line.
Check the current between the USB_DN (D-) and the USB_DP (D+) connectors on the USBB Assy and check that this connection is not short-circuited to ground.
If current is not conducted between the connectors, check also L8001.
Replace the USB connecting cable.
If the problem is not resolved, the USB communication line or I.MX on the MAIN Assy may be defective. Replace the MAIN Assy.
The USB communication line is normal.
This unit cannot be recognized or controlled by the PC/Mac that is connected via the USB B connector.
Does this unit operate properly on its own when it is not controlled via the USB B connector?
No
See the section on errors in the operating elements and LEDs.
Yes
Check that the driver for this unit has been installed on the PC/Mac.
Check that the MIXER mode of this unit is properly set as either XDJ-AERO or PC.
Is this unit recognized by the PC/Mac?
No
The USB communication line or I.MX on the MAIN Assy may be defective. Replace the Assy.
Yes
Check and correct the settings of the application used on the PC/Mac.
(This unit operates properly.)


Connection between this unit and another device via Wi-Fi is not possible. (This unit cannot be recognized by rekordbox.)
Check that the Wi-Fi settings are properly performed both with this unit and the other device.
Enter the UTILITY menu, select WLAN INFORMATION then MAC ADDRESS, and check that the MAC address is "00:00:00:00:00:00."
Is the MAC address "00:00:00:00:00:00"?
No
The Wi-Fi module is recognized, but communication has not been established. Replace the Wi-Fi module, as an error may have been generated in the module.
Yes
The Wi-Fi module is not recognized. Check if the voltage output from TP1907 on the MAIN Assy to the Wi-Fi module is 5 V±0.25.
If the power supply is normal, failure in the USB communication line of the MAIN Assy, I.MX, or Wi-Fi module may be the cause. Check the line connected to Pins 3 and 4 of CN1901 in the MAIN Assy. Replace the Wi-Fi module. If the problem is not resolved after the above corrections, failure in I.MX is suspected. Replace the MAIN Assy.
No or abnormal display on the LCD
Only indications in Japanese, Korean, and Chinese are abnormal.
No
Check the communication line between the LCD and the EUPB UCOM. See "Waveform ⑭: LCD2 control."
Yes
Indications in other languages are normal.
An error in data in the font ROM or in the communication line between the EUP UCOM and font ROM may be the cause.
Check the connection on the CCNB1/2 Assy.
Check the communication line between the EUP UCOM and font ROM. Check the connection between IC5002 and IC5004 on the EUPB Assy.
Replace the LCD module.
If no problem is found in the communication line, the font ROM may be in failure. Replace IC5004 on the EUPB Assy.
Replace the EUP UCOM (IC5002) on the EUPB Assy.

5.3 VOLTAGE MONITORING

The EUP UCOM of this unit always monitors for power and voltage failure of the unit and will shut the unit off immediately after an error is detected.

● Content to be monitored

Any power failure generated inside the Power block, such as voltage drop and voltage rise.
① DC power supply from AC adapter, Power supply for standby
Power to be monitored: V+12_DCIN (V+12_SW1), V+3R3_EUP
② Others Power block on the MAIN Assy and EUPB Assy
Power to be monitored: V+12_EUP, V+12_D, V+1R2_D, V+1R8_D, V+2R775_D, V+2R775_PMIC, V+3R3_D, V+4R2_D, V+5_D, V+7R5_A, V+16R5_A, V-7R5_A, V-16R5_A

● Microcomputer Detection terminal and its terminal voltage

① FAULT_DET: TP2620 on MAIN Assy, TP5137, or CN5003-26 pin on EUPB Assy
Normal: 3.3 V
Abnormal: 0 V
② ADP_FAULT: TP5007 on EUPB Assy
Normal: 1.8 V
Abnormal: more than 2.0 V

● Timing of monitoring start

V+12_DCIN (V+12_SW1), V+12_EUP, V+3R3_EUP: Just after AC adapter connection
Others Power: 450 msec after the unit is turned ON

● Timing upon judgment as a failure

50 msec after an error is detected

● LED indication when an error is generated

① DC power supply from AC adapter, Power supply for standby
All LEDs are unlit after an error is generated.
② Others Power block on the MAIN Assy and EUPB Assy
STANDBY/ON indicator LED blinks in green / red alternately, and other LED are unlit after an error is generated.

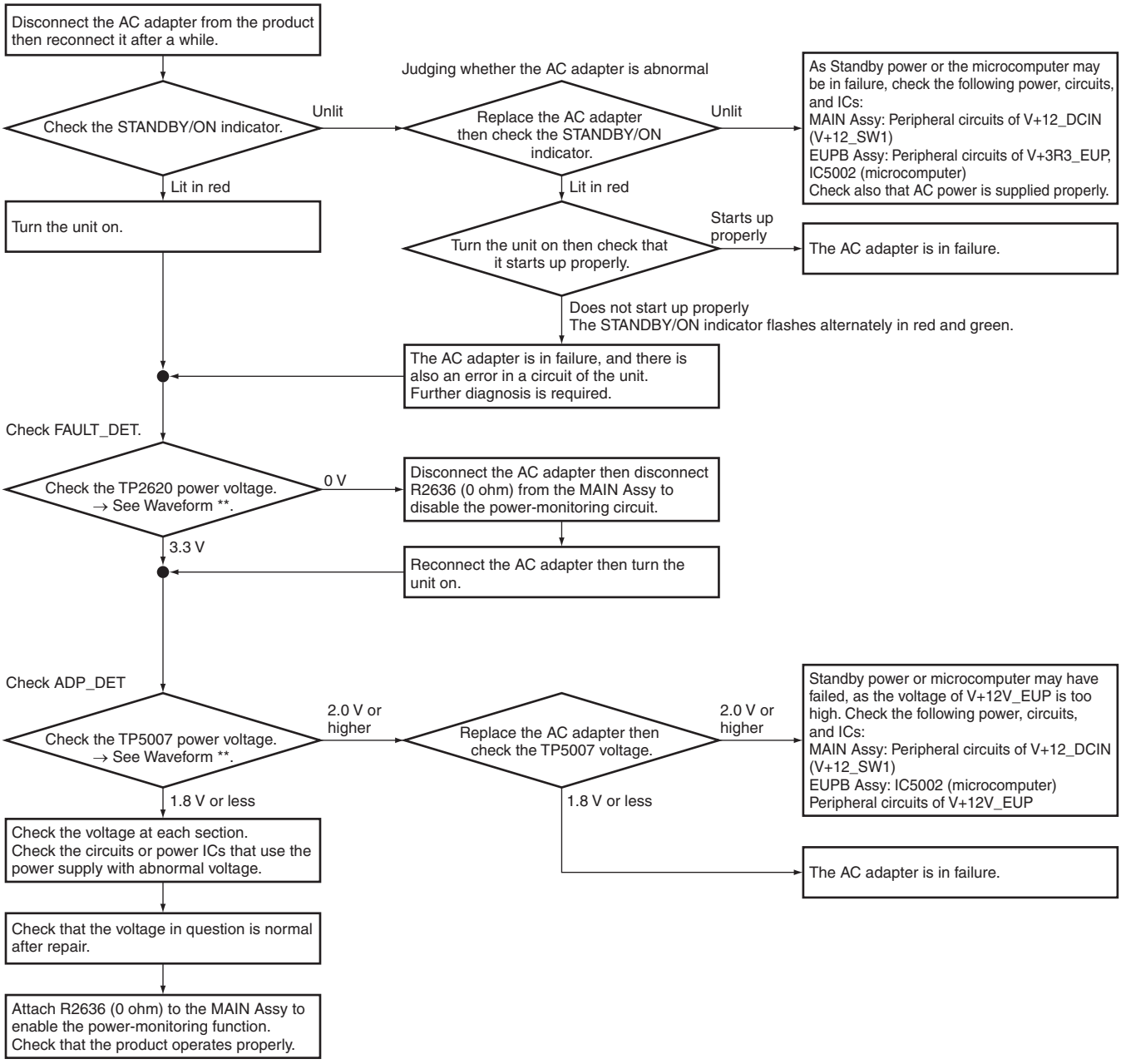
● Restoration method

When power is off after an error is generated, the power is turned on again after waiting after a diagnosis for a while.

● Diagnostic procedure

Follow the diagnostic procedure shown below.

In the following diagnostic procedure, because power will be forcibly supplied even if any power circuit is abnormal, the defective point may produce heat and the circuit that uses the power supply may fail if power supply continues. Be sure to disconnect the AC adapter some seconds after it is connected during diagnostic procedure so that the unit will not remain forcibly powered.

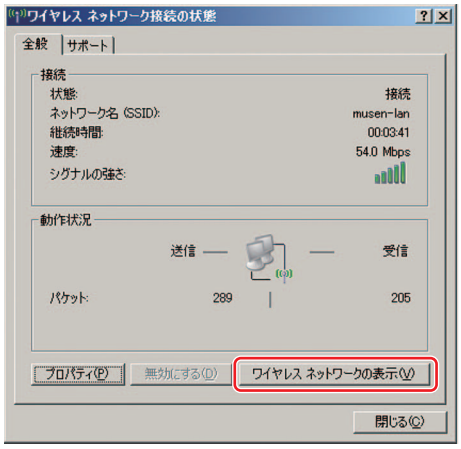


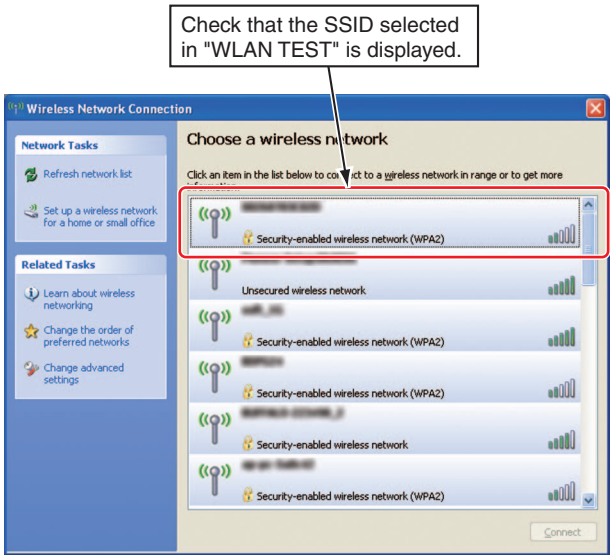
5.4 CONFIMATION OF WIRELESS LAN COMMUNICATION

To confirm wireless LAN communication, set this unit to WLAN TEST mode then confirm the signal with a PC equipped with a wireless LAN device or with a smartphone/tablet PC.
See "■ WLAN TEST: For confirmation of wireless LAN connection" in "6.1 TEST MODE" on how to enter WLAN TEST mode.

■ How to Confirm with a PC (Example: Windows XP)

① Click on the wireless network icon on the system tray.
② After the Wireless Network Connection Status dialog box is displayed, select the View Wireless Networks button.
③ When the "Choose a wireless network" dialog box is displayed, check that the SSID selected in Test mode of this unit is displayed.





■ How to Confirm with a Smartphone/Tablet PC (Example: iPod touch)

① On the top screen of an iPod touch, select Settings.
② Select Wi-Fi (Not Connected)
③ Check that the SSID selected in Test mode of this unit is displayed in the "Choose a Network" box.

5.5 HOW TO CONFIRM IF PLAYBACK OF MUSIC FILES IS POSSIBLE FROM A PC VIA WIRELESS LAN

The file format that can playback is sampling frequency 44.1 kHz, MP3 or AAC type.

To perform DJ play via wireless LAN, follow the procedure shown below.

① Install rekordbox (Mac/Windows) on the PC.
② Import tracks to the PC.
③ Connect this unit with the PC via wireless LAN.
④ Load the tracks into this unit.
⑤ Output the audio.

* To make DJ performances using a wireless LAN, the LINK EXPORT function must be used after making the wireless LAN connection then establishing the link.

■ Installation of rekordbox (Mac/Windows) on a PC

Using the CD-ROM supplied with this product, install rekordbox (Mac/Windows) on your PC.

Importing tracks to rekordbox

① Click on “Collection.”
② Select File menu, Import, then File.
③ Select the folder in which (a) music file(s) you wish to import is(are) saved, select the filename(s), then click on Open.
The music file(s) will be added to the collection, and the tag information of the music file(s) will be read and displayed.
When an analysis of waveform data of the music file(s) starts, an "analysis in progress" symbol will be displayed at the left of the filename of the music file being analyzed then disappear after the analysis is completed.

■ Connection of This Unit with the PC via Wireless LAN

Set the wireless LAN function’ s operation mode of this unit to ACCESS POINT(AP) mode.
(By default, ACCESS POINT(AP) mode is set.)
Connect the PC with this unit, using this unit's WPS button.

① Select the Push Button Configuration of Wi-Fi Protected Setup (WPS-PBC) for the WPS connection function of the PC.
② Hold the WPS button of this unit pressed for at least 1 sec.
The WPS indicator starts flashing. After the setting is completed, the WPS indicator will go dark.

■ Loading a Track on a Deck of This Unit from the PC via Wireless LAN

① Start up rekordbox on the PC then establish a link.
② Select a track, using rekordbox, on the PC.
③ Click on to select a deck of this unit to which the track is to be loaded, using rekordbox, on the PC.
Loading of the track starts, and the JOG dial indicator of the deck into which the track is being loaded flashes.
The indicator changes from flashing to lighting when playback of the track becomes possible, the name of the track is indicated on the display of this unit, then playback starts.

■ Outputting Audio

Example: Outputting audio channel 1 (CH 1)

① Set the DECK 1/PHONO 1/LINE 1 switch of CH 1 to DECK 1.
② Press the MASTER button at the center of this unit so that the button becomes unlit.
(While the MASTER button is unlit, the level of the audio being input to CH 1 is displayed on the LEVEL indicator.)
③ Adjust the level of the audio being input to CH 1, by turning the TRIM control for CH 1 clockwise.
④ Adjust the level of the audio to be output from CH 1, by sliding the CH 1 channel fader away from you.
⑤ Output the CH 1 audio, by sliding the cross fader to its leftmost position.
⑥ Press the MASTER button at the center of this unit so that the button is lit.
(While the MASTER button is lit, the level of the audio to be output from the MASTER OUT 1 connector is displayed on the LEVEL indicator.)
⑦ Turn the MASTER LEVEL control clockwise to output the audio from the speaker.

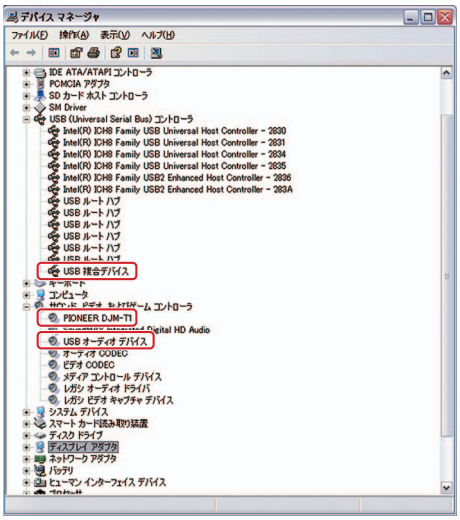
5.6 CONNECTION CHECK WITH USB

USB (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 of the XDJ-AERO must be installed beforehand.

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, USB communication between the PC and this unit is ready.



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 XDJ-AERO
  USB Audio Device

* A communication check may be easily performed if connection is made with Device Manager displayed on the PC screen.
* To display [System] in the [Control Panel] window, click on “Classic View.”

5.7 ERROR INDICATION

Eror code	Error type	Description of error	Cause and action
E-8304	DECODE ERROR	Music files that cannot be played normally are loaded.	The music files are not in an authorized format. Replace them with music files in an authorized format.
E-8305	DATA FORMAT ERROR		
E-8306	NO FILE	Track recorded in the library, playlist, etc., has been deleted from the USB device and cannot be played.	To play the track, load it back onto the USB device.

6. SERVICE MODE
6.1 TEST MODE

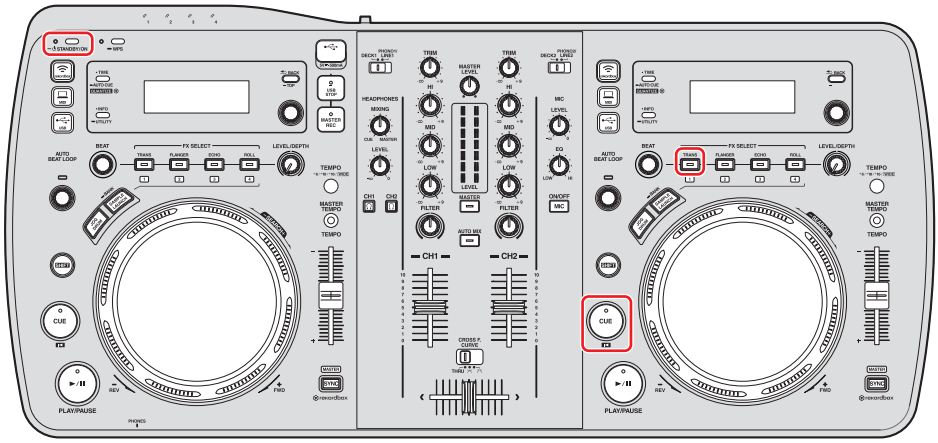
■ Description of Test Modes

The Following seven test modes are provided for this unit:

① Mode 1: "VERSION" for confirmation of the versions, "WLAN CH" for confirmation of the wireless LAN channel, "LANGUAGE" for setting of the language.
② Mode 2: "DISPLAY OFF" for making all LEDs and LCD unlit
③ Mode 3: "DISPLAY ON" for making all LEDs and LCD lit
④ Mode 4: "KEY/LED TEST" for confirmation of individual keys
⑤ Mode 5: "SW TEST" for confirmation of individual switches
⑥ Mode 6: "VOL TEST" for confirmation of the values of the rotary variable controls and the slider values
⑦ Mode 7: "SELECTOR TEST" for confirmation of individual rotary selector

■ How to Enter Test Mode (Other than Entering WLAN TEST Mode)

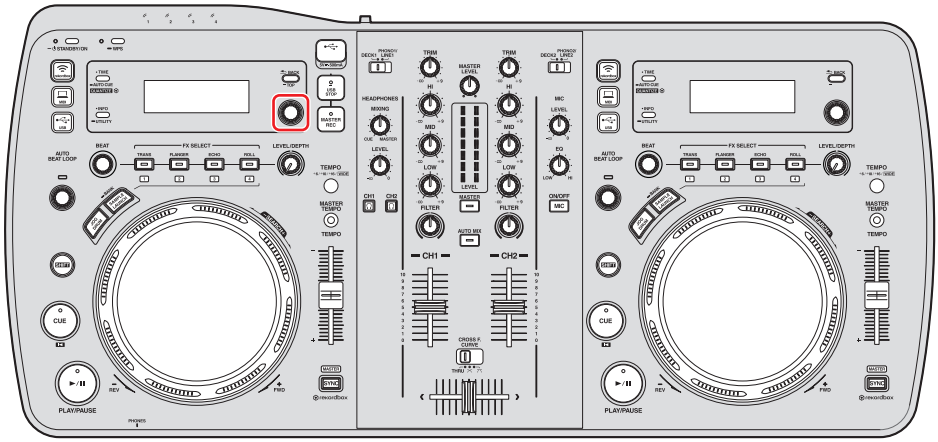
While holding the DECK 2 TRANS and DECK 2 CUE I◄ buttons pressed, press the STANDBY/ON button to turn the unit on. (Hold the buttons pressed more than 2 seconds.)



■ How to Change Test Modes

To change Test modes, turn the DECK 1 Rotary selector clockwise or counterclockwise.
To shift from Mode 7 to Mode 1 or from Mode 1 to Mode 7, press the DECK 1 Rotary selector.
Then, Test modes can be changed again with a turn of the DECK 1 Rotary selector.

Mode 1 ⟷ Mode 2 ⟷ Mode 3 ⟷ Mode 4 ⟷ Mode 5 ⟷ Mode 6 ⟷ Mode 7



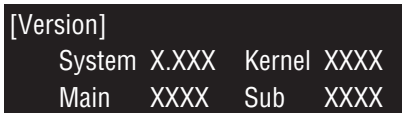
■ Test mode Contents

① Mode 1: "VERSION" for confirmation of the versions, "WLAN CH" for confirmation of the wireless LAN channel, "LANGUAGE" for setting of the language.

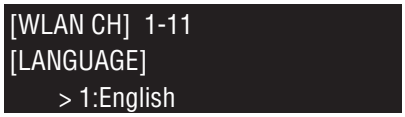
Immediately after Test mode is entered (Mode 1) the versions, range of settable channels for the wireless LAN, and LANGUAGE setting are displayed on the LCD.

[Versions to be displayed]	[Range of the wireless LAN channels]	[Selectable languages]
System x.xxx	1 - 11 ch	English
Main xxxx	or	Japanese
Kernel xxxx	1 - 13 ch	Korean
Sub xxxx		Simplified Chinese

DECK1



DECK2



• LANGUAGE setting

Select a language by turning the DECK 2 Rotary selector clockwise or counterclockwise then press it to register the selected language. A ">" symbol is displayed at the left of the registered language.
The languages change in the order indicated below.

② Mode 2: "DISPLAY OFF" for making all LEDs and LCD unlit

After this mode is entered, "DISPLAY OFF" will be displayed for about 1 sec. then all indications on the LCDs will disappear and the LEDs will go dark or dim.
* For details on which LEDs go dark or dim, see the column "Operation in the OFF state" of the table for Mode 4.
* The LCD backlight is always lit.

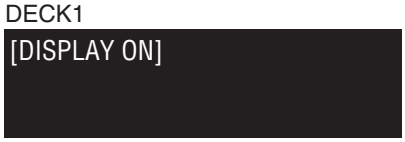
DECK1

DECK2

③ Mode 3: "DISPLAY ON" for making all LEDs and LCD lit

After this mode is entered, "DISPLAY ON" will be displayed for about 1 sec. then all indications on the LCDs and all LEDs will light.

DECK1



DECK2

④ Mode 4: "KEY/LED TEST" for confirmation of individual keys

· When this mode is entered, "KEY/LED TEST" is displayed on the LCD. In this mode, when a key is pressed, the corresponding LED will light.
For details on correspondence between the keys and LEDs, see "Table of keys and corresponding LEDs to be lit in the mode for confirmation of individual keys."
· The DECK 1 JOG LEDs (blue) will light one by one if the DECK 1 AUTO BEAT LOOP control is turned.
· The DECK 2 JOG LEDs (blue) will light one by one if the DECK 2 AUTO BEAT LOOP control is turned.
· The LINK indicator LEDs will light one by one if the DECK 1 BEAT control is turned.
· The position of the lit LED for the L-ch LEVEL indicator changes from bottom to top if the DECK 2 BEAT control is turned clockwise. It changes from top to bottom if the DECK 2 BEAT control is turned counterclockwise.
· The position of the lit LED for the R-ch LEVEL indicator changes from bottom to top if the DECK 2 rotary selector is turned clockwise. It changes from top to bottom if the DECK 2 Rotary selector is turned counterclockwise.

DECK1

DECK2

Table of keys and corresponding LEDs to be lit in the mode for confirmation of individual keys

Operating keys	LED Name	Operation in the OFF state
DECK1 ▶/❚❚ (PLAY/PAUSE) button	DECK1 ▶/❚❚ (PLAY/PAUSE) indicator	Unlit
DECK1 CUE I◀ button	DECK1 CUE I◀ indicator	Unlit
DECK1 JOG DRUM button	DECK1 JOG DRUM	Lit dimly
DECK1 SAMPLE LAUNCH button	DECK1 SAMPLE LAUNCH	Lit dimly
DECK1 AUTO BEAT LOOP control (PUSH)	DECK1 AUTO BEAT LOOP indicator	Unlit
DECK1 SYNC button	DECK1 SYNC	Lit dimly
DECK1 TEMPO RANGE button	DECK1 MASTER (SYNC)	Unlit
DECK1 MASTER TEMPO button	DECK1 MASTER TEMPO	Unlit
DECK1 USB button	DECK1 USB	Lit dimly
DECK1 MIDI button	DECK1 MIDI	Lit dimly
DECK1 rekordbox button	DECK1 rekordbox	Lit dimly
DECK1 TRANS button	DECK1 TRANS	Unlit
DECK1 FLANGER button	DECK1 FLANGER	Unlit
DECK1 ECHO button	DECK1 ECHO	Unlit
DECK1 ROLL button	DECK1 ROLL	Unlit
DECK1 Rotary selector (PUSH)	DECK1 ROLL	Unlit
DECK1 Jog dial (TOUCH)	DECK1 JOG DRUM	Unlit
DECK1 Jog dial (ROTATE)	JOG RED11 - 14, JOG BLUE11 - 14	Unlit
DECK1 SHIFT button	JOG RED11	Unlit
DECK1 BACK (TOP) button	JOG RED12	Unlit
DECK1 TIME (AUTO CUE, QUANTIZE) button	JOG RED13	Unlit
DECK1 INFO (UTILITY) button	JOG RED14	Unlit
DECK1 AUTO BEAT LOOP control (ROTATE)	JOG BLUE11 - 14	Unlit
DECK2 ▶/❚❚ (PLAY/PAUSE) button	DECK2 ▶/❚❚ (PLAY/PAUSE) indicator	Unlit
DECK2 CUE I◀ button	DECK2 CUE I◀ indicator	Unlit
DECK2 JOG DRUM button	DECK2 JOG DRUM	Lit dimly
DECK2 SAMPLE LAUNCH button	DECK2 SAMPLE LAUNCH	Lit dimly
DECK2 AUTO BEAT LOOP control (PUSH)	DECK2 AUTO BEAT LOOP indicator	Unlit
DECK2 SYNC button	DECK2 SYNC	Lit dimly
DECK2 TEMPO RANGE button	DECK2 MASTER (SYNC)	Unlit
DECK2 MASTER TEMPO button	DECK2 MASTER TEMPO	Unlit
DECK2 USB button	DECK2 USB	Lit dimly
DECK2 MIDI button	DECK2 MIDI	Lit dimly
DECK2 rekordbox button	DECK2 rekordbox	Lit dimly
DECK2 TRANS button	DECK2 TRANS	Unlit
DECK2 FLANGER button	DECK2 FLANGER	Unlit
DECK2 ECHO button	DECK2 ECHO	Unlit
DECK2 ROLL button	DECK2 ROLL	Unlit
DECK2 Rotary selector (PUSH)	DECK2 ROLL	Unlit

Operating keys	LED Name	Operation in the OFF state
DECK2 Jog dial (TOUCH)	DECK2 JOG DRUM	Unlit
DECK2 Jog dial (ROTATE)	JOG RED21 - 24, JOG BLUE21 - 24	Unlit
DECK2 SHIFT button	JOG RED21	Unlit
DECK2 BACK (TOP) button	JOG RED22	Unlit
DECK2 TIME (AUTO CUE, QUANTIZE) button	JOG RED23	Unlit
DECK2 INFO (UTILITY) button	JOG RED24	Unlit
DECK2 AUTO BEAT LOOP control (ROTATE)	JOG BLUE21 - 24	Unlit
WPS button	WPS indicator	Unlit
USB STOP button	USB STOP indicator	Unlit
MASTER REC button	MASTER REC indicator	Unlit
∩(HEADPHONES)(CH1) button	∩(HEADPHONES)(CH1)	Lit dimly
∩(HEADPHONES)(CH2) button	∩(HEADPHONES)(CH2)	Lit dimly
MIC (ON/OFF) button	MIC (ON/OFF)	Lit dimly
AUTO MIX button	AUTO MIX	Lit dimly
MASTER button	MASTER	Lit dimly
DECK1 BEAT control (ROTATE)	LINK indicator 1 - 4	Unlit
DECK2 BEAT control (ROTATE)	LEVEL indicator Lch	Unlit
DECK2 Rotary selector (ROTATE)	LEVEL indicator Rch	Unlit

(LCD COLOR)

LCD COLOR changes when you press the BEAT EFFECT button. (see below)

Operating keys	LCD COLOR
DECK1 TRANS, DECK2 TRANS buttons	WHITE
DECK1 FLANGER, DECK2 FLANGER buttons	BLUE
DECK1 ECHO, DECK2 ECHO buttons	MAGENTA
DECK1 ROLL, DECK2 ROLL buttons	RED

(LCD CONTRAST)

LCD CONTRAST switches with 1 to 5 when you press the DECK2 rotary selector.

⑤ Mode 5: "SW TEST" for confirmation of individual switches

When this mode is entered, "SW TEST" is displayed. The set position of each switch is indicated on the LCD.

DECK1

DECK2

Operation switch		LCD indication	Remarks
DECK1, PHONO1/LINE1 selector switch	DECK1	DECK1	
	PHONO1/LINE1	———	The selected position of the PHONO 1/LINE 1 switch will be indicated.
DECK1 LINE, PHONO selector switch	LINE	LINE1	
	PHONO	PHONO1	
DECK2, PHONO2/LINE2 selector switch	DECK2	DECK2	
	PHONO2/LINE2	———	The selected position of the PHONO 2/LINE 2 switch will be indicated.
DECK2 LINE, PHONO selector switch	LINE	LINE2	
	PHONO	PHONO2	
CROSS F. CURVE (THRU, ⩙, ⩛) (crossfader curve selector switch)	THRU	LEFT	
	⩙	CENTER	
	⩛	RIGHT	

⑥ Mode 6: "VOL TEST" for confirmation of the values of the rotary variable controls and the slider values

· When this mode is entered, "VOL TEST" is displayed on the LCD.
· The value for each VR or slider that is operated will be indicated.

DECK1

DECK2

Operation volume	LCD indication	Remarks
CH1 TRIM control	CH1 TRIM XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 HI control	CH1 HI XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 MID control	CH1 MID XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 LOW control	CH1 LOW XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 FILTER control	CH1 FILTER XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 Channel fader	CH1 FADER XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 LEVEL/DEPTH control	CH1 LEVEL/DEPTH XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 TEMPO slider	CH1 TEMPO XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 TRIM control	CH2 TRIM XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 HI control	CH2 HI XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 MID control	CH2 MID XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 LOW control	CH2 LOW XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 FILTER control	CH2 FILTER XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 Channel fader	CH2 FADER XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 LEVEL/DEPTH control	CH2 LEVEL/DEPTH XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 TEMPO slider	CH2 TEMPO XXX	XXX stands for 000–3FF in hexadecimal notation.
MASTER LEVEL control	MASTER LEVEL XXX	XXX stands for 000–3FF in hexadecimal notation.
HEADPHONES MIXING control	HEADPHONES MIXING XXX	XXX stands for 000–3FF in hexadecimal notation.
HEADPHONES LEVEL control	HEADPHONES LEVEL XXX	XXX stands for 000–3FF in hexadecimal notation.
MIC LEVEL control	MIC LEVEL XXX	XXX stands for 000–3FF in hexadecimal notation.
MIC EQ control	MIC EQ XXX	XXX stands for 000–3FF in hexadecimal notation.
Crossfader	CROSS FADER XXX	XXX stands for 000–3FF in hexadecimal notation.

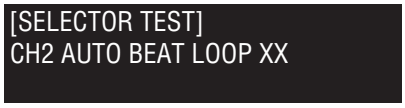
⑦ Mode 7: "SELECTOR TEST" for confirmation of individual rotary selector

- When this mode is entered, “SELECTOR TEST” is displayed on the LCD.
- The value for each rotary selector that is operated will be indicated.
- The value will increase if a rotary selector is turned clockwise and decrease if it is turned counterclockwise.
- If the value reaches FF while a rotary selector is turned clockwise and it is then further turned, the value will return to 00 then continue to increase. If the value reaches 00 while a rotary selector is turned counterclockwise and it is then further turned, the value will return to FF then continue to decrease.

To shift from Mode 7 to Mode 1 or from Mode 1 to Mode 7, press the DECK 1 Rotary selector.

DECK1

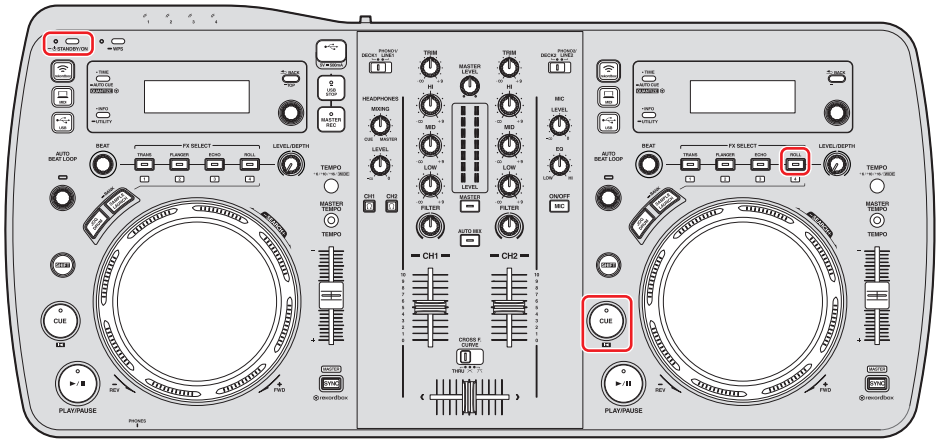
DECK2



Operation rotary selector	LCD indication	Remarks
DECK1 Rotary selector	CH1 SELECTOR XX	XX stands for 00–FF in hexadecimal notation.
DECK1 AUTO BEAT LOOP control	CH1 AUTO BEAT LOOP XX	XX stands for 00–FF in hexadecimal notation.
DECK1 BEAT control	CH1 BEAT EFFECT XX	XX stands for 00–FF in hexadecimal notation.
DECK2 Rotary selector	CH2 SELECTOR XX	XX stands for 00–FF in hexadecimal notation.
DECK2 AUTO BEAT LOOP control	CH2 AUTO BEAT LOOP XX	XX stands for 00–FF in hexadecimal notation.
DECK3 BEAT control	CH2 BEAT EFFECT XX	XX stands for 00–FF in hexadecimal notation.

"WLAN TEST" for confimation of the Wireless LAN

While holding the DECK 2 ROLL and DECK 2 CUE I◄ buttons pressed, press the STANDBY/ON button.
(Hold the buttons pressed more than 2 seconds.)
"WLAN TEST" is indicated on the LCDs, and the SSID selection screens are displayed.



Initial screen

DECK1

```
[WLAN TEST]
      1 SSID-TEST-XX
   NO CONNECT
```

DECK2

```
[WLAN TEST]
      1 SSID-TEST-XX
   NO CONNECT
```

* The display of DECK1 and DECK2 is the same contents.

• When a wireless device, such as a tablet PC or smartphone, is to be connected for the first time

① While holding the DECK 2 ROLL and DECK 2 CUE I◄ buttons pressed, press the STANDBY/ON button to turn on the unit.
② Select the SSID to be used for test, by turning the DECK 2 Rotary selector clockwise, then press it to determine the selection. (A ">" symbol is displayed at the left of the determined SSID.)
③ Select the SSID of this unit on the Wireless LAN Setup screen of the wireless device.
④ If in some seconds the indication "NO CONNECT" is changed to "CONNECT" on this unit, connection has been successfully completed.

If connection fails, the "NO CONNECT" indication will remain displayed.

Screen for successful connection

DECK1

```
[WLAN TEST]
    > 1 SSID-TEST-XX
   CONNECT
```

DECK2

```
[WLAN TEST]
    > 1 SSID-TEST-XX
   CONNECT
```

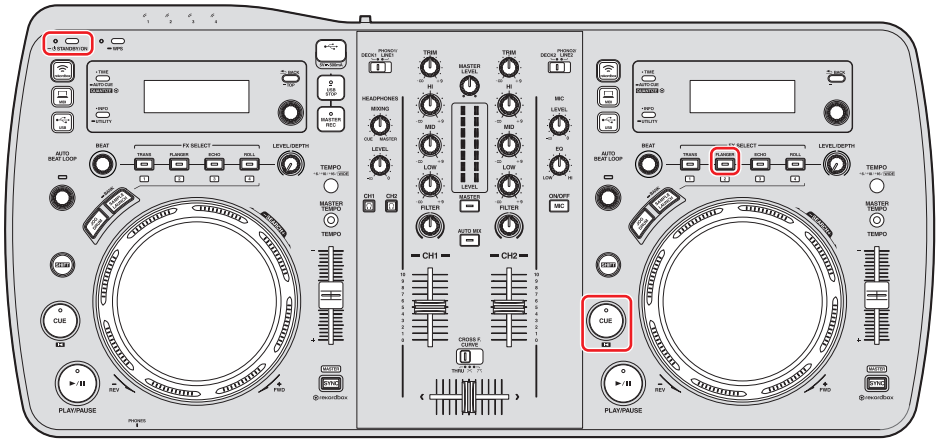
* The display of DECK1 and DECK2 is the same contents.

• When a wireless device that has been connected with this unit before is to be used

① While holding the DECK 2 ROLL and DECK 2 CUE I◄ buttons pressed, press the STANDBY/ON button to turn on the unit.
② Select the SSID to be used for test, by turning the DECK 2 Rotary selector clockwise, then press it to determine the selection.
③ If the indication "NO CONNECT" is changed to "CONNECT" on this unit, connection has been successfully completed.

How to Reset to the Factory Default Settings

① While holding the DECK 2 FLANGER and DECK 2 CUE I◄ buttons pressed, press the STANDBY/ON button to turn on the unit. (Hold the buttons pressed more than 2 seconds.)
② Resetting is completed when "COMPLETE!" is displayed on the LCD.
③ The unit enters STANDBY mode.



Initial screen

DECK1

DECK2

DECK1

DECK2

Completion screen

DECK1

DECK2

* The language setting will not be reset.

* The display of DECK1 and DECK2 is the same contents.

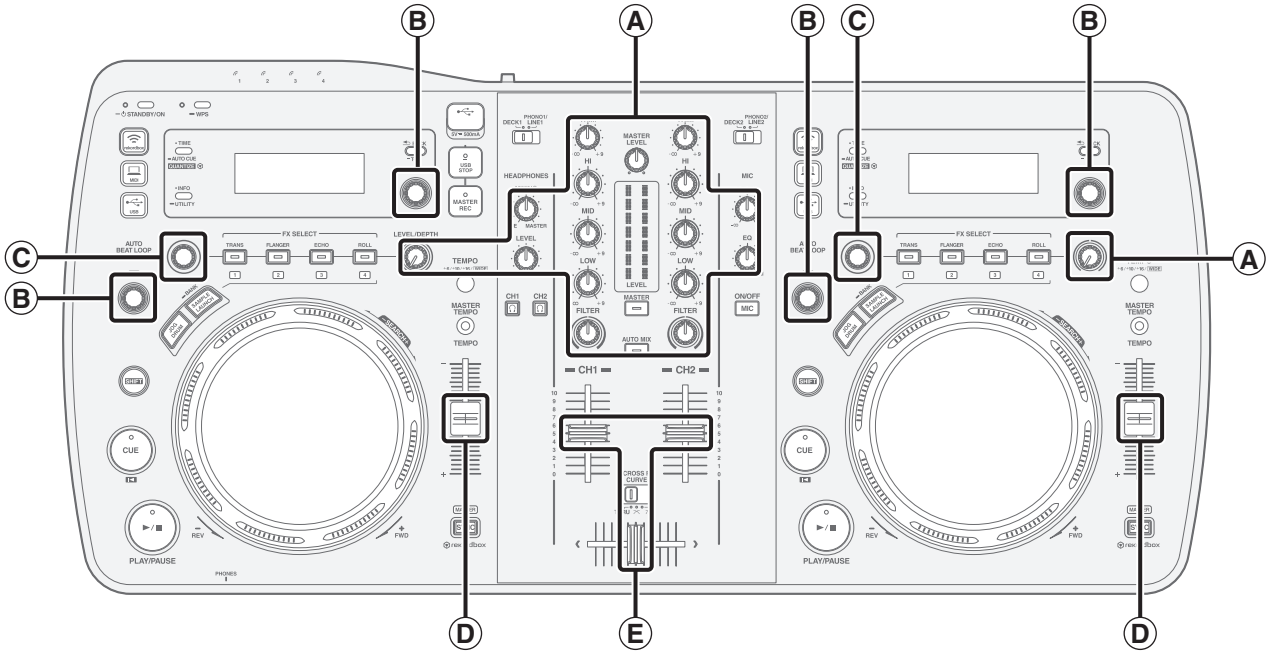
6.2 ABOUT THE DEVICE

Device Name	Function	Part No.	Reference No.	Assy
I.MX	Main CPU. USB HOST/Device control, Audio processing, Key microcomputer control	MCIMX512DJM8C	IC1001	MAIN Assy
DDR2 (1 Gbit x2)	Main memory for I.MX	K4T1G164QF-BCE7	IC1201, IC1202	MAIN Assy
NAND Flash (2 Gbit)	Main program for I.MX, For storage of each setting value	DYW1818	IC1401	MAIN Assy
PMIC	Power supply generation, Power supply management IC for I.MX	MC13892AJVL	IC501	MAIN Assy
USB Transceiver	Transceiver IC to connect a connector to USB HOST controller	USB3320C-EZK	IC1801, IC1901	MAIN Assy
Audio DAC	IC whitch converts I2S format into an audio output signal	AK4387ET	IC3001, IC3401	MAIN Assy
Audio ADC	IC whitch converts audio input signal into I2S format	AK5358AET	IC3101, IC3201, IC3301	MAIN Assy
EUP UCOM	Standby control, Liquid crystalline control, Key, LED control microcomputer	PEQ194A8	IC5002	EUPB Assy
Flash Memory (16 Mbit)	For FONT storage for liquid crystalline	DYW1821	IC5004	EUPB Assy
SUB UCOM	Key, LED control microcomputer	DYW1820	IC6002	SUBB Assy
Touch Sensor	Static electricity sensor microcomputer for JOG touch	PE0004A8	IC9052, IC9102	JOGT Assy
Wi-Fi Module	Wi-Fi communication module	DXF1015	Connect to MAIN Assy	
STN LCD Module	Liquid crystalline module for display	YAW5113	Connect to EUPB, SUBB Assemblies	

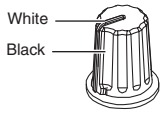
7. DISASSEMBLY

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.

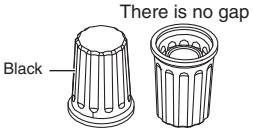
Knobs and Volumes Location



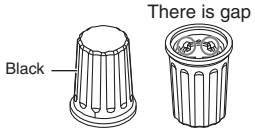
Ⓐ Knob/LBK
(DAA1284) ×17



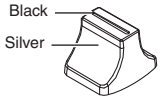
Ⓑ Dial knob S (B)
(DAA1273) ×4



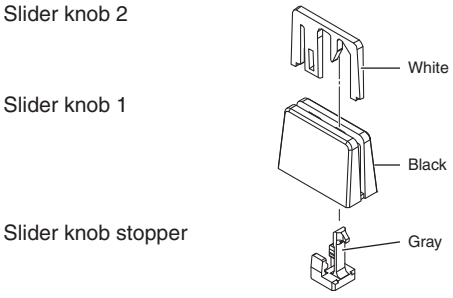
Ⓒ Dial knob S2 (B)
(DAA1274) ×2



Ⓓ Knob/SLD
(DNK6090) ×2



Ⓔ Slider knob 1
(DAC2684) ×3 + Slider knob 2
(DAC2685) ×3 + Slider knob stopper
(DNK5888) ×3

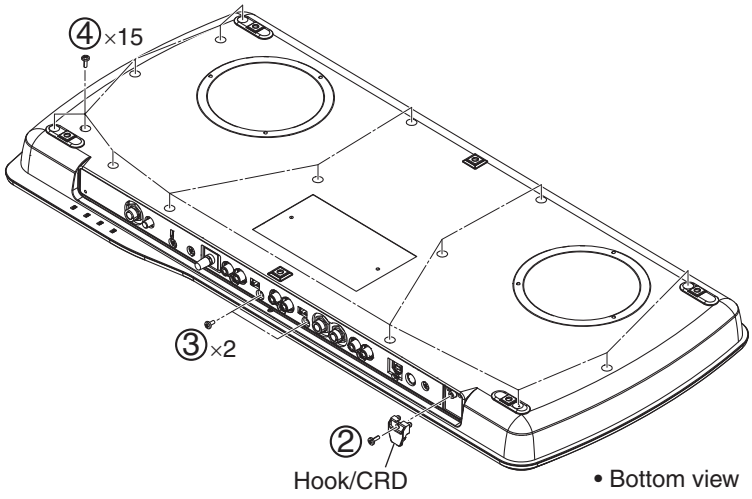


Disassembly

[1] Chassis Section

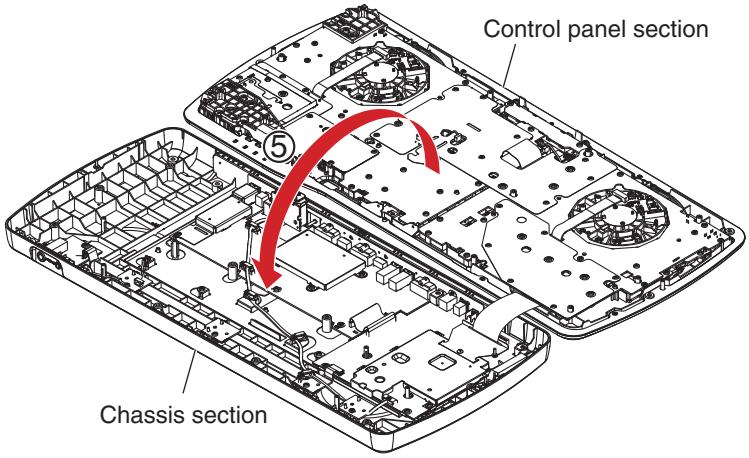
[1-1] Chassis Section

(1) Reverse the product.
(2) Remove the Hook/CRD by remove the one screw. (BPZ30P080FTB)
(3) Remove the two screws. (BBZ30P060FTB)
(4) Remove the 15 screws. (BPZ30P080FTB)

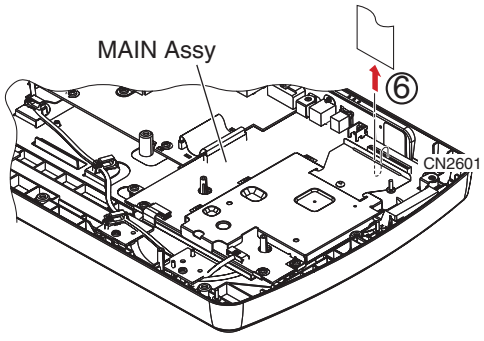


(5) Remove the chassis section.

Diagnosis

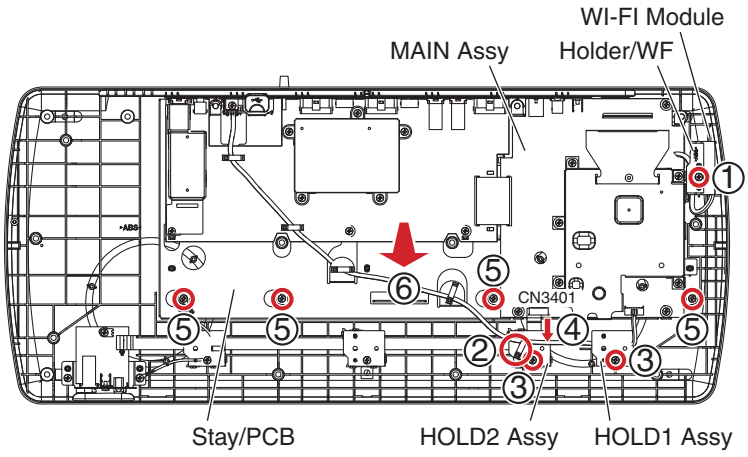


(6) Disconnect the one flexible cable. (CN2601)



[1-2] Stay/PCB Section

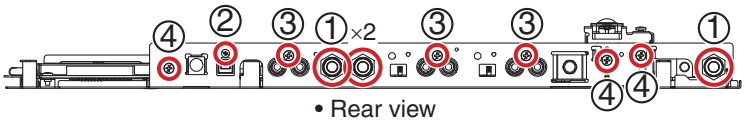
(1) Remove the Holder/WF by removing the one screw. (BPZ30P080FNI)
(2) Release the jumper wire from the cord clamper.
(3) Remove the HOLD1 and 2 Assemblies by removing the two screws. (BPZ30P080FNI)
(4) Disconnect the one connector. (CN3401)
(5) Remove the four screws. (BPZ30P080FNI)
(6) Remove the Stay/PCB with PCboards.



• Top view

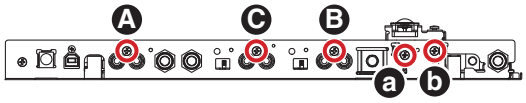
[1-3] MAIN, JACB and USBB Assemblies

(1) Remove the three nuts.
(2) Remove the one screw. (DBA1340)
(3) Remove the thee screws. (BPZ30P080FNI)
(4) Remove the thee screws. (BBZ30P060FTC)



• Rear view

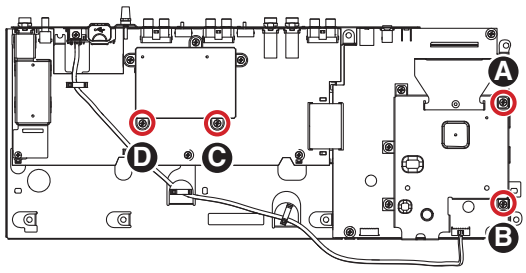
Screw tightening order

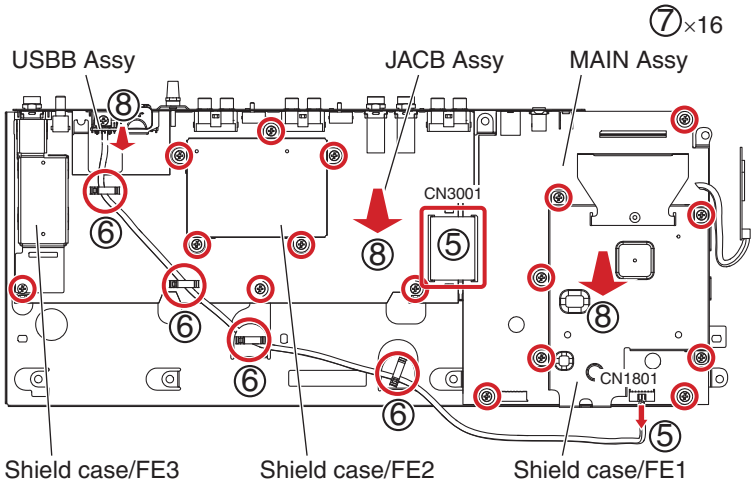


(5) Disconnect the one flexible cable and one connector. (CN3001, 1801)
(6) Release the jumper wire from the four cord clampers.
(7) Remove the 16 screws. (BBZ30P060FTC)
(8) Remove the MAIN, JACB and USBB Assemblies.

Screw tightening order

The other screws are random order.

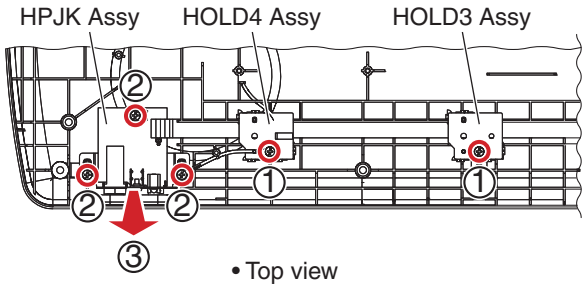




• Top view

[1-4] HPJK Assy

(1) Remove the HOLD3 and 4 Assemblies by removing the two screws. (BPZ30P080FNI)
(2) Remove the three screws. (BPZ30P080FNI)
(3) Remove the HPJK Assy.

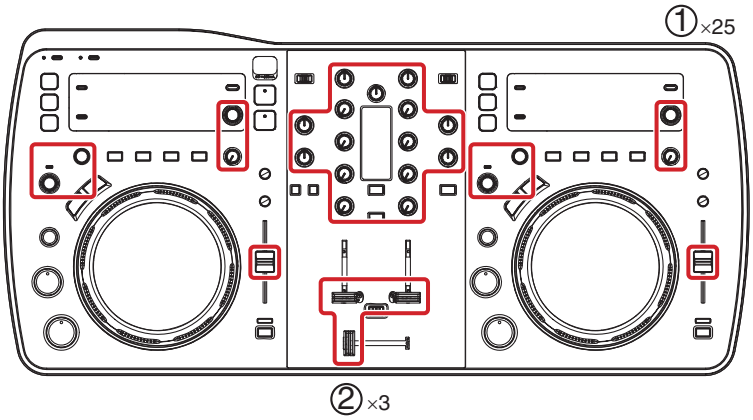


• Top view

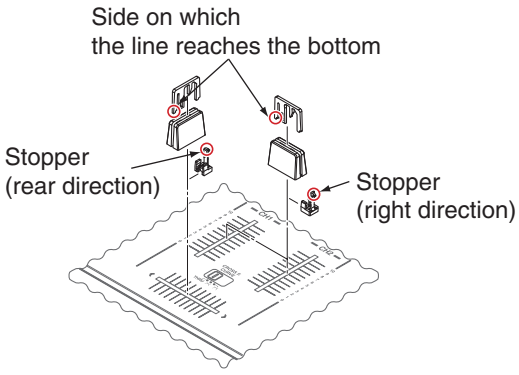
[2] EUPB and SUBB Assy

[2-1] Each Knobs

(1) Remove the all knobs.
(2) Remove the three silider knobs 2, three slider knobs 1, three Slider knob stopper. (See below.)



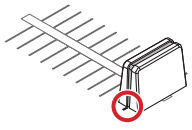
The reference of the direction



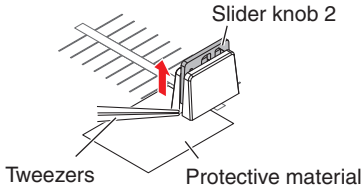
• Disassembly of the slider knob

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.

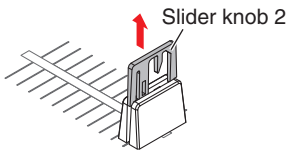
① Find the side on which the line reaches the bottom.



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.

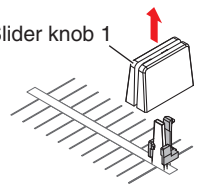


③ Remove the slider knob 2.

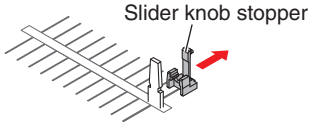


*: During reassembly, fully push down Slider knob 2 until it is dented into Slider knob 1.

④ Remove the slider knob 1.

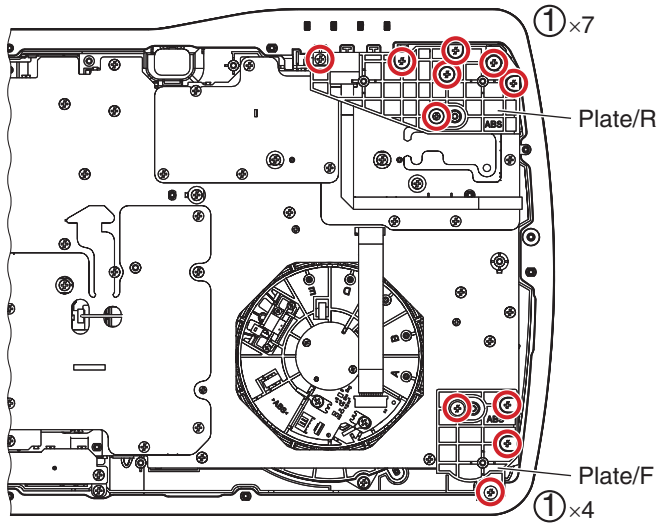


⑤ Remove the slider knob stopper.



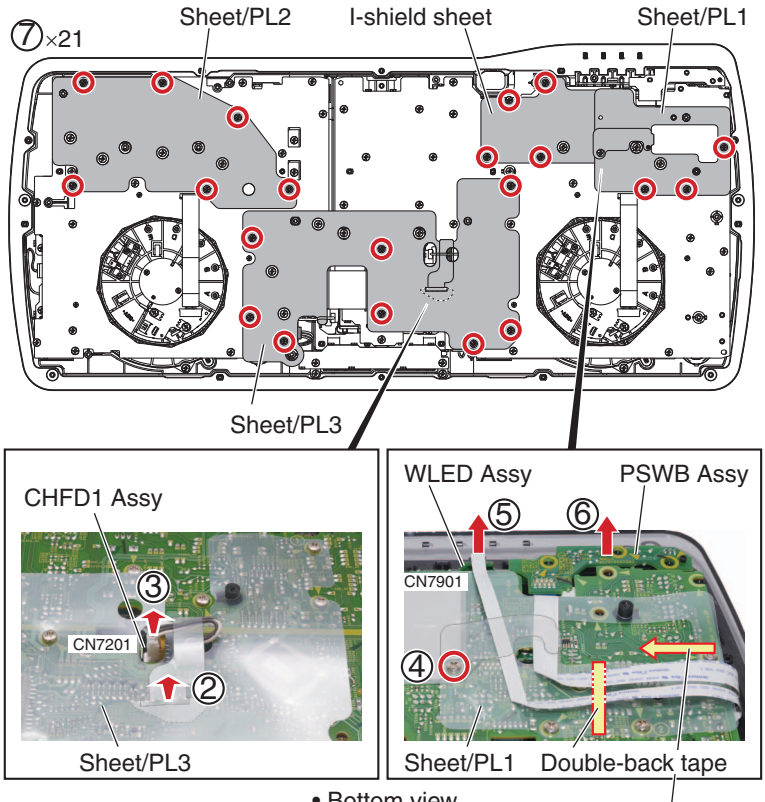
[2-2] Each Shield

(1) Remove the plate/F and plate/R by removing the 11 screws. (BPZ30P100FTB)



• Bottom view

(2) Unhook the hook of sheet/PL3.
(3) Disconnect the one connector. (CN7201)
(4) Unhook the sheet/PL1 by removing the one screw. (BPZ30P080FNI)
(5) Disconnect the one flexible cable. (CN7901)
(6) Remove the PSWB Assy.
(7) Remove the sheet/PL1, PL2, PL3 and i-shield sheet by removing the 21 screws. (BPZ30P080FNI)

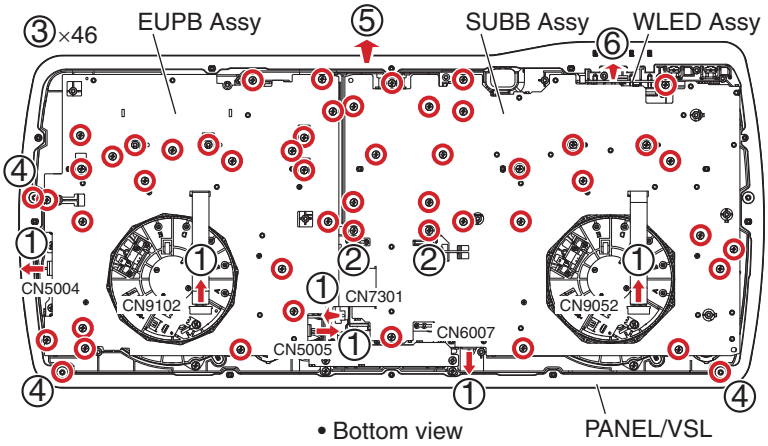


• Bottom view

Note:
During reassembly, pull the FFC in the direction of the arrow then attach it to the double-back tape. This is for preventing the FFC from being pinched between the chassis and the control panel.

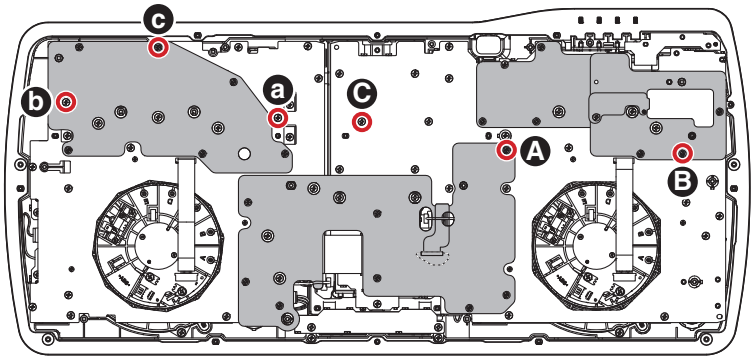
[2-3] EUPB and SUBB Assy

(1) Disconnect the six connectors.
(CN5004, 5005, 6007, 7301, 9052, 9102)
(2) Remove the two screws. (BBZ30P060FTB)
(3) Remove the EUPB and SUBB Assemblies by removing the 46 screws.
(BBZ30P060FTB)
(4) Remove the three screws. (BPZ30P080FNI)
(5) Remove the PANEL/VSL.
(6) Remove the WLED Assy.

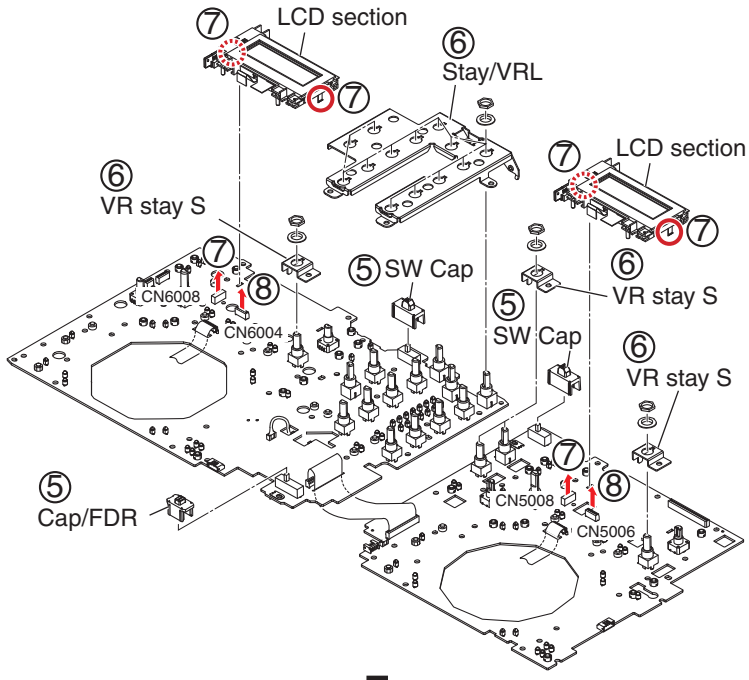


Screw tightening order

The other screws are random order.

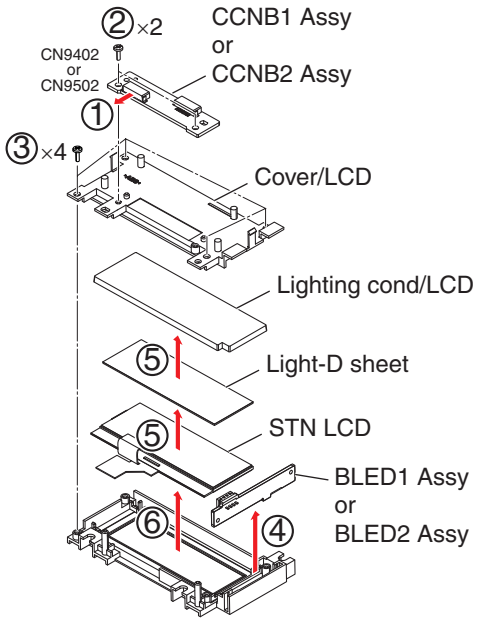


(5) Remove the two SW Caps, one cap/FDR.
(6) Remove the four VR stays S, one stay/VRL by removing the 17 washers and nuts.
(7) Unhook the four hooks, remove the LCD then disconnect the two BtoB connectors.
(CN5008, 6008)
(8) Disconnect the two flexible cables.
(CN5006, 6004)



[2-4] LCD Section

(1) Disconnect the one flexible cable. (CN9402, 9502)
(2) Remove the CCNB1 or CCNB2 Assemblies by removing the two screws. (BPZ20P060FTC)
(3) Remove the cover/LCD by removing the four screws. (BPZ20P060FTC)
(4) Remove the BLED1 or BLED2 Assemblies.
(5) Remove the lighting cond/LCD. Take off the light-D sheet.
(6) Remove the STN LCD.



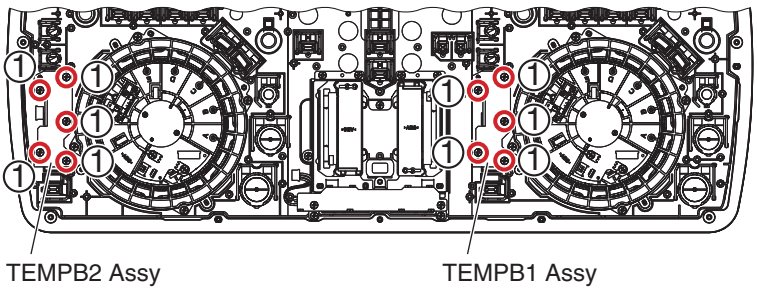
• Bottom view

[2-5] Slider, JOG and Fader sections

(1) Remove the TEMPB1 and TEMPB2 Assemblies by removing the 10 screws. (BPZ30P080FNI)

Note for assembling

Attach TEMPB1 Assy after securing the Cross Fader necessarily.

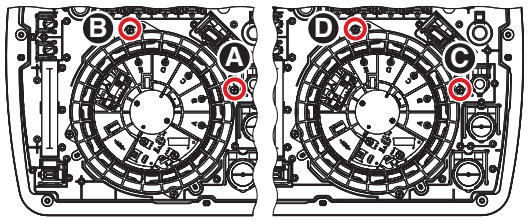


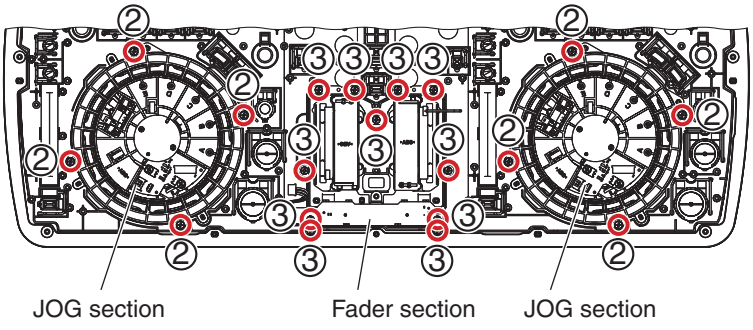
• Bottom view

(2) Remove the two JOG sections by removing the 8 screws. (BPZ30P080FNI)
(3) Remove the fader section by removing the 11 screws. (BPZ30P080FNI)

Screw tightening order

The other screws are random order.



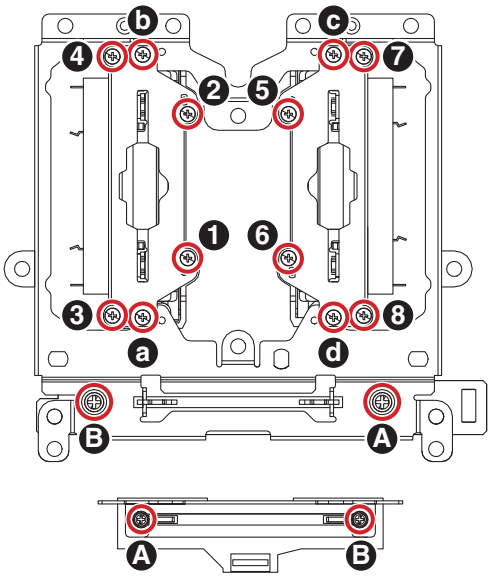


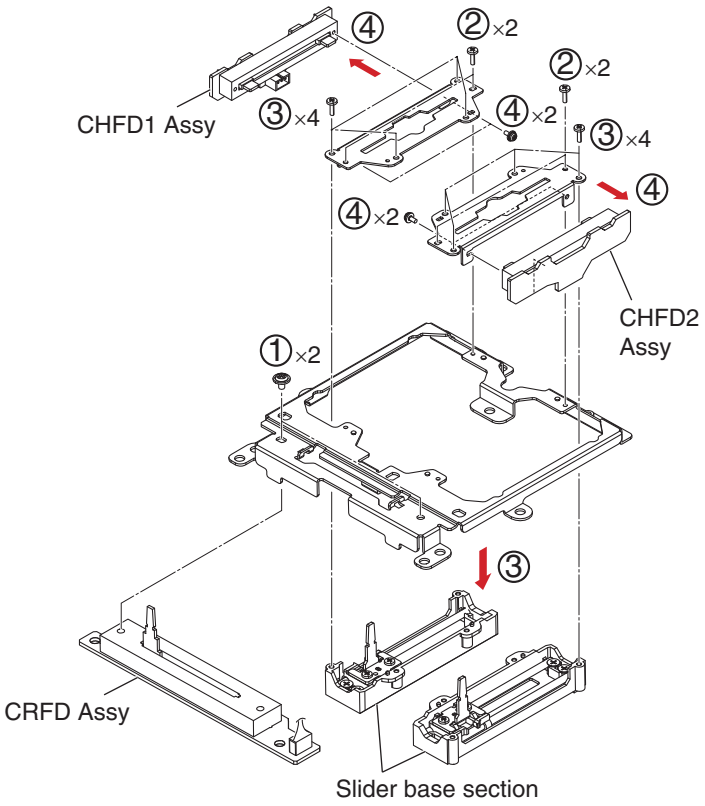
• Bottom view

[2-6] Fader Section

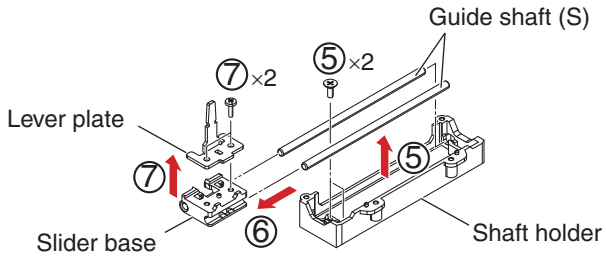
(1) Remove the CRFD Asst by removing the two screws. (IMZ30P040FTC)
(2) Remove the four screws. (BSZ20P040FTB)
(3) Remove the slider base section by removing the eight screws. (BPZ20P060FTC)
(4) Remove the CHFD1 and CHFD2 Assemblies by removing the four screws. (PMH20P040FTC)

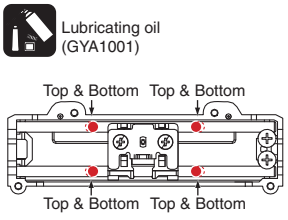
Screw tightening order





(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)





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.

8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

Please update firmware to the latest version at the repair necessarily.
("WLAN setting item" is not initialized.)
Perform the each item when the following parts are replaced.

- NAND Flash (MAIN Assy: IC1401) or MAIN Assy ⇒
  - Confirmation of the version of the firmware (MAIN & Kernel)
  - Updating to the latest version of the firmware
- EUP UCOM (EUPB Assy: IC5002) or EUPB Assy ⇒
  - Confirmation of the version of the firmware (Sub)
  - Updating to the latest version of the firmware
  - * Confirm that display of "WLAN CH" "is 1ch - 13ch" with test mode / mode 1 at the EUPB Assy exchange.

Destination	Unit No.	WLAN CH
CUXJ, LWPWXJ	DWX3351	1ch - 11ch
SVWYXJ8, KXJ5, AXJ5	DWX3400	1ch - 13ch

- SUB UCOM (SUBB Assy: IC6002) or SUBB Assy ⇒ • Updating to the latest version of the firmware
- Wi-Fi Module ⇒ • Factory shipping setting

After the NAND Flash (IC1401), MAIN Assy, or Wi-Fi Module is replaced, the SSID will be changed.
(As for the Wi-Fi Module, the SSID will be changed when resetting to factory default is performed after replacement.)
When returning the repaired product to the customer, be sure to tell the customer that resetting of the wireless LAN connection will be required.

8.2 UPDATING OF THE FIRMWARE

The update file name of the firmware is as follows.
ex) XDJAERO.UPD

Preparations

Use USB device formatted in FAT/FAT32.
Do not support HFS+.

Procedure

① Copy an update file to a root folder of USB device.
② Turn on the power, pressing the DECK2 TRANS, DECK2 ECHO buttons.
③ Insert the USB device which you wrote in an update file at with procedure ①.
④ Update is started.
⑤ Update is completed, and become the STANDBY state.

Initial display

DECK1

Initial display

DECK2

Updating

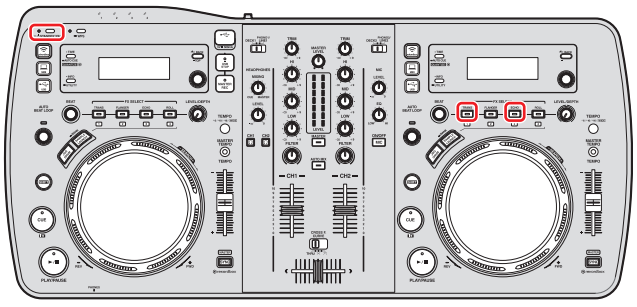
DECK1

Updating

DECK2

DECK1

DECK2



8.3 USER SETABLE ITEMS

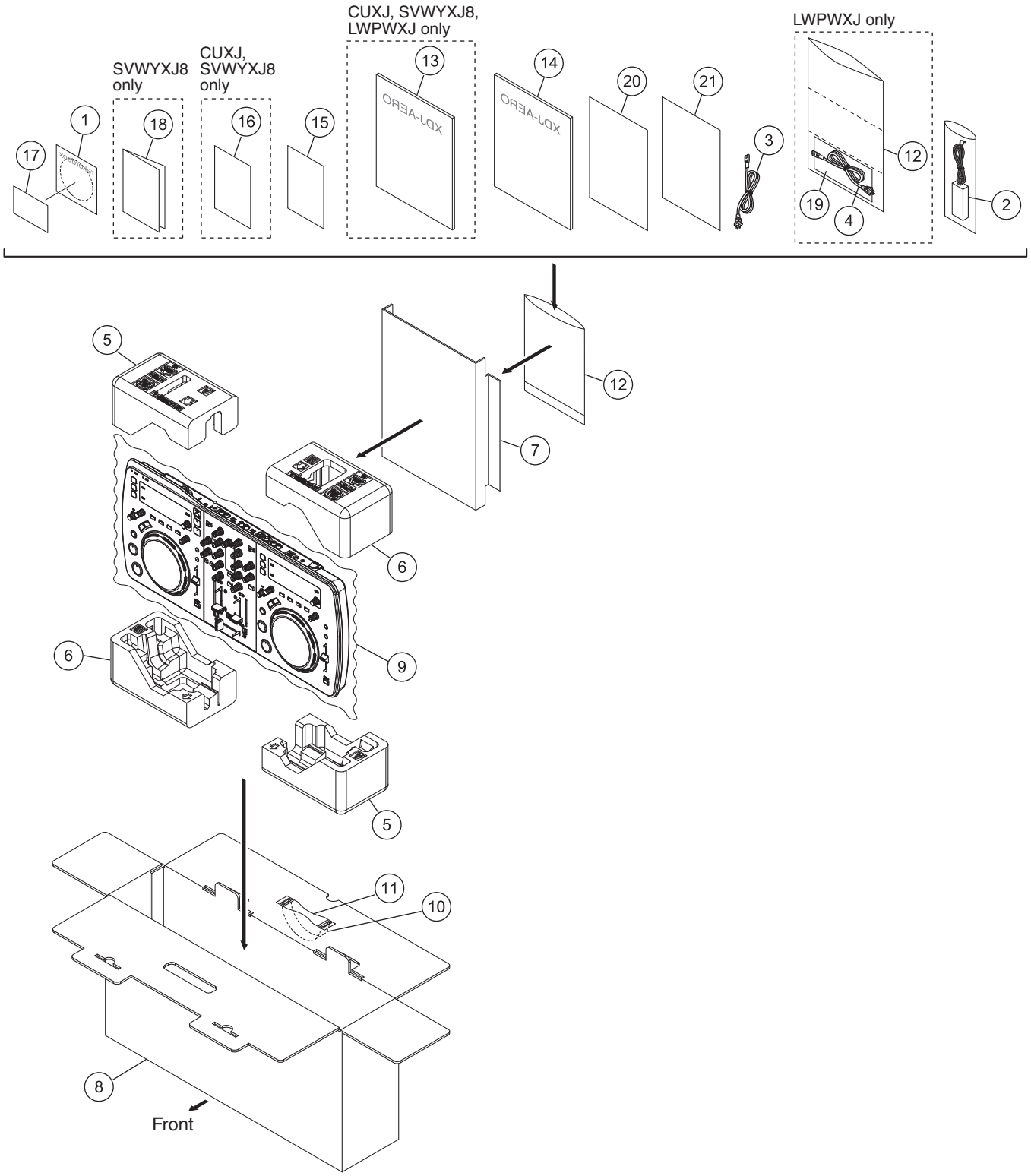
The following setting is stored to an applicable IC.

Setting Item			Initial Value (Factory settings)	Parts	Content to be Stored
MIXER MODE			**XDJ-AERO**/PC	NAND Flash (IC1401: DYW1818) (MAIN Assy)	UTILITY setting
A. CUE LEVEL			-36 dB/-42 dB/-48 dB/-54 dB/ **-60 dB**/-66 dB/-72 dB/-78 dB		
LCD CONTRAST			1 – **3** – 5		
LCD COLOR			**BLUE**/MAGENTA/RED/WHITE		
LCD INVERSION			**NEGATIVE**/POSITIVE		
AUTO STANDBY			OFF/**20 min**/40 min/60 min		
LOAD LOCK			ON/**OFF**		
WLAN SETTING	MODE		OFF/**ACCESS POINT(AP)** /WLAN CLIENT		
	INPUT WPS PINCODE		0 to 9 (max. 8 characters)		
	NETWORK SETTING	SSID	A to Z, a to z, 0 to 9, symbols (max. 32 characters)		
		SECURITY	OPEN / WPA / WPA2		
		PASSWORD	A to Z, a to z, 0 to 9, symbols (max. 64 characters)		
	OTHERS	IP ADDRESS			
		SUBNET MASK			
		CHANNEL NO.	CH1～**AUTO**		
		DHCP SERVER	**ENABLE**/DISABLE		
		CHANNEL WIDTH	**20 MHz**/40 MHz		
		KEY RENEWAL INTERVAL	0minute to **60minute** to 1440minute		
	DHCP CLIENT		**ENABLE**/DISABLE		
	IP ADDRESS SUBNET MASK		**192:168:1:1 255:255:255:0**		

9. EXPLODED VIEWS AND PARTS LIST

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

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

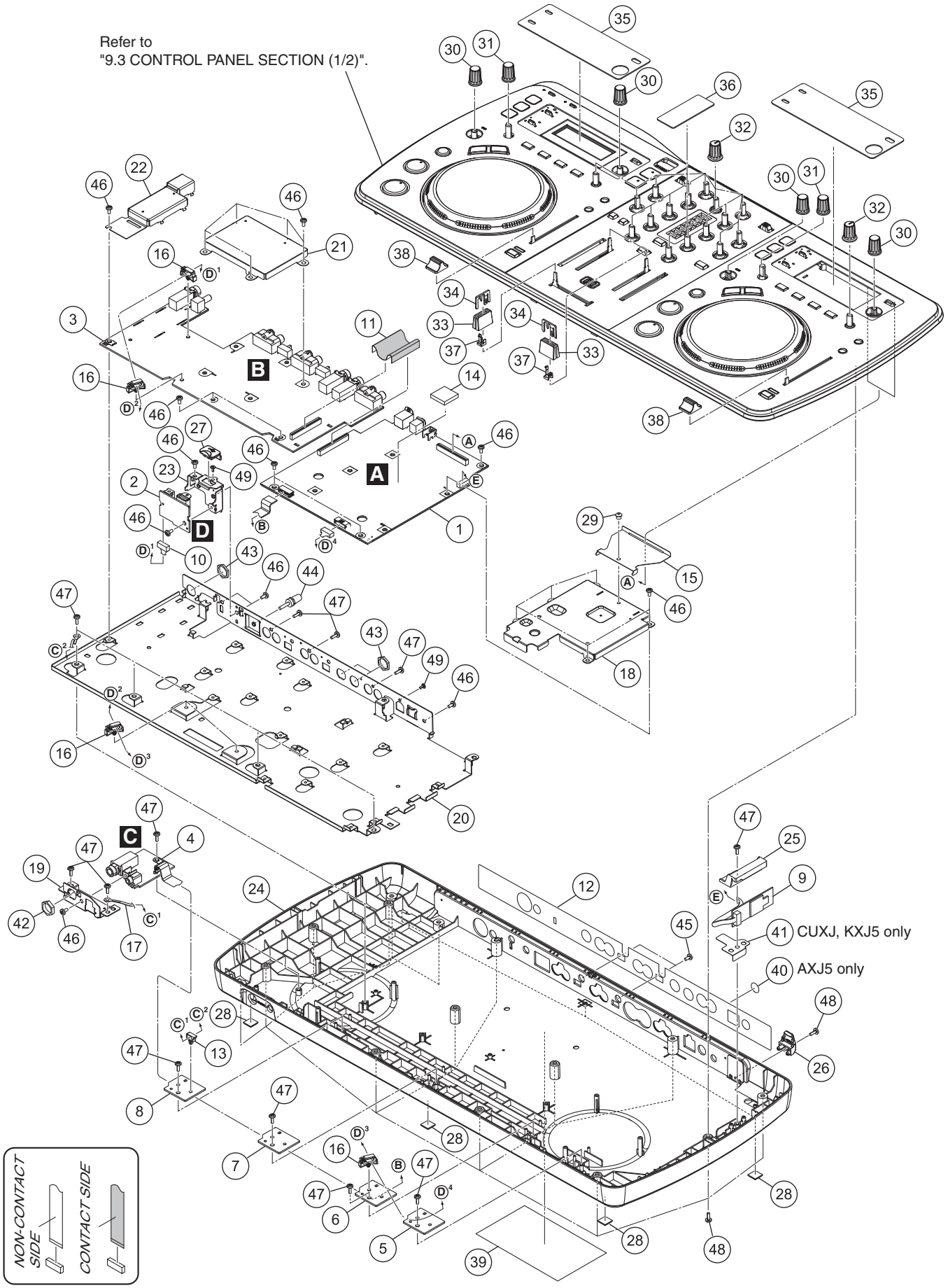
Mark	No.	Description	Part No.
	1	CD-ROM including rekordbox, the driver software and operating instructions (rekordbox license key affixed)	See Contrast table (2)
⚠	2	AC Adapter	See Contrast table (2)
⚠	3	Power Cord	See Contrast table (2)
⚠	4	Power Cord	See Contrast table (2)
	5	Pad/A	DHA1888
	6	Pad/B	DHA1889
	7	Pad/ACC	DHA1890
	8	Packing Case	See Contrast table (2)
	9	Packing Sheet	RHC1023
	10	Plastic Handle (PE)	VEC2292
	11	Spacer (PE)	VEC2293
NSP	12	Polyethylene Bag	AHG7117
	13	Quick Start Guide	See Contrast table (2)
	14	Read Before Use (Important)	See Contrast table (2)
	15	Notice on software licenses	See Contrast table (2)
	16	Notice on software licenses	See Contrast table (2)
NSP	17	Label/L K	DRW2484
NSP	18	Warranty Card	See Contrast table (2)
	19	Caution Card SB	See Contrast table (2)
	20	Version Up Guide	DRH1180
	21	SSID, Password Guide	DRH1197

(2) CONTRAST TABLE

XDJ-AERO/CUXJ, SVWYXJ8, LWPWXJ, KXJ5 and AXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	XDJ-AERO /CUXJ	XDJ-AERO /SVWYXJ8	XDJ-AERO /LWPWXJ	XDJ-AERO /KXJ5	XDJ-AERO /AXJ5
	1	CD-ROM including rekordbox, the driver software and operating instructions (rekordbox license key afficed)	DXX2715	DXX2715	DXX2715	DXX2716	DXX2716
⚠	2	AC Adapter	DWR1522 or DWR1523 or DWR1524	DWR1523 or DWR1524	DWR1523 or DWR1524	DWR1524	DWR1524
⚠	3	Power Cord	XDG3052	ADG1154	ADG1154	ADG7113	ADG7079
⚠	4	Power Cord	Not used	Not used	ADG7097	Not used	Not used
	8	Packing Case	DHG3118	DHG3117	DHG3119	DHG3122	DHG3120
	13	Quick Start Guide	DRH1167	DRH1167	DRH1167	Not used	Not used
	14	Read Before Use (Important)	DRH1171	DRH1170	DRH1172	DRH1169	DRH1168
	15	Notice on software licenses	DRH1174	DRH1174	DRH1174	DRH1175	DRH1175
	16	Notice on software licenses	DRH1198	DRH1198	Not used	Not used	Not used
NSP	18	Warranty Card	Not used	ARY7158	Not used	Not used	Not used
	19	Caution Card SB	Not used	Not used	ARM7064	Not used	Not used

9.2 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	DWX3313
	2	USBB Assy	DWX3374
	3	JACB Assy	DWX3354
	4	HPJK Assy	DWX3355
	5	HOLD1 Assy	DWX3396
	6	HOLD2 Assy	DWX3397
	7	HOLD3 Assy	DWX3398
	8	HOLD4 Assy	DWX3399
	9	Wi-Fi Module	DXF1015
	10	Shielded Conn-Cable	DDA1046
	11	FFC/39P	DDD1613
	12	Rear Panel	See Contrast table (2)
	13	Locking Mini Clamp	DEC2439
	14	Sheet	DEC2694
	15	Sheet/PRT	DEC3409
	16	Cord Clamper	DEC3437
NSP	17	Cord With Plug	DE010VE0
	18	Shield Case/FE1	DNH3031
	19	Stay/FRT	DNH3032
	20	Stay/PCB	DNH3033
	21	Shield Case/FE2	DNH3036
	22	Shield Case/FE3	DNH3041
	23	Stay/USB	DNH3043
	24	Chassis	DNK6082
	25	Holder/WF	DNK6083
	26	Hook/CRD	DNK6084
	27	Cover/USB	DNK6092
	28	Rubber Foot	VEB1349
	29	Push Rivet	XEC3034
	30	Dial Knob S (B)	DAA1273
	31	Dial Knob S2 (B)	DAA1274
	32	Knob/LBK	DAA1284
	33	Slider Knob 1	DAC2684
	34	Slider Knob 2	DAC2685
	35	Panel/DSP	DAH2884
	36	Panel/LVL	DAH2885
	37	Slider Knob Stopper	DNK5888
	38	Knob/SLD	DNK6090
NSP	39	Label	See Contrast table (2)
NSP	40	CCC S Label	See Contrast table (2)
	41	Leaf Spring/WF	See Contrast table (2)
	42	Nut M12	DBN1018
	43	Nut (M12)	NKX2FNI
	44	Terminal Screw	AKE-031
	45	Screw	BBZ30P060FTB
	46	Screw	BBZ30P060FTC
	47	Screw	BPZ30P080FNI
	48	Screw	BPZ30P080FTB
	49	Screw (M3*5)	DBA1340

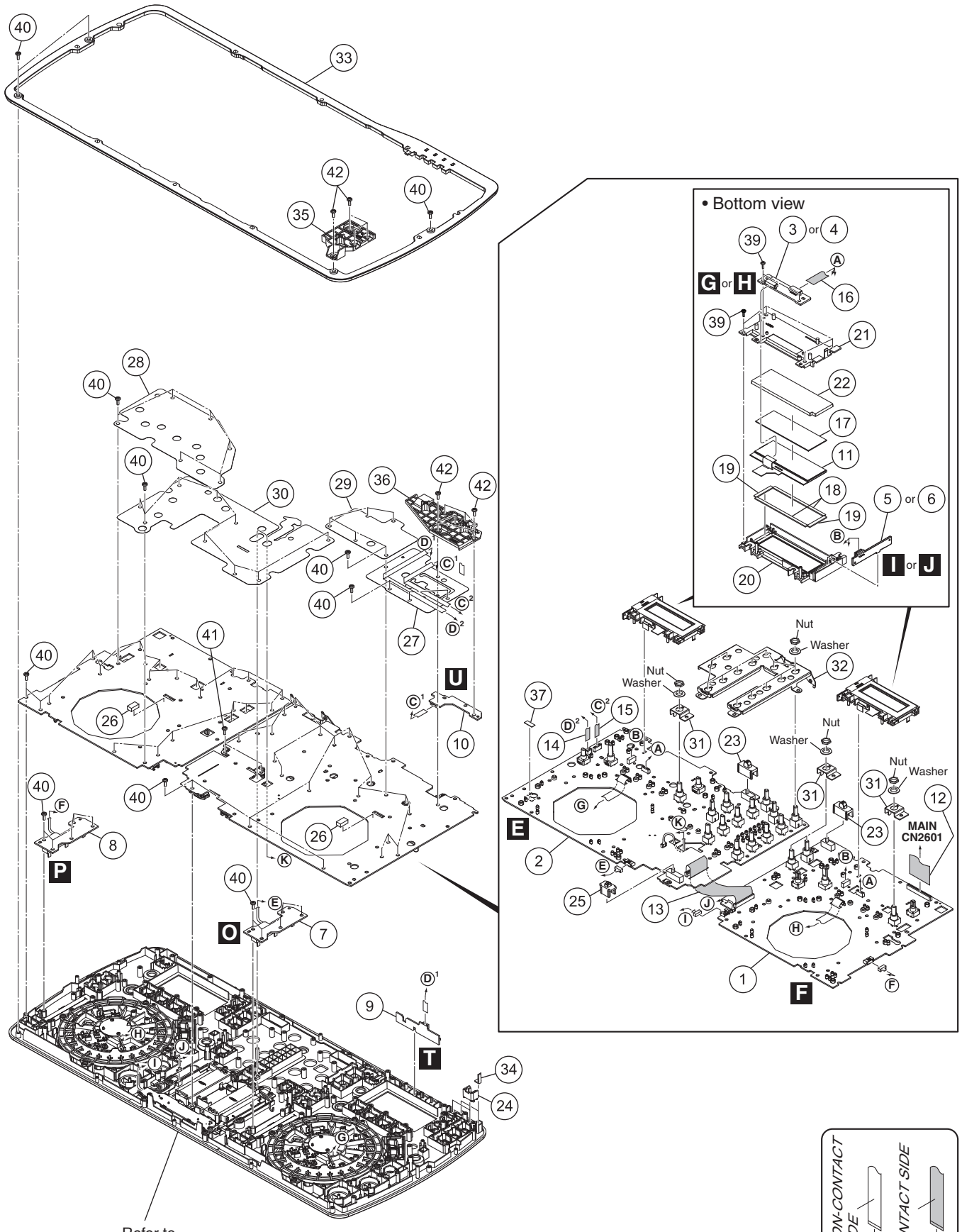
(2) CONTRAST TABLE

XDJ-AERO/CUXJ, SVWYXJ8, LWPWXJ, KXJ5 and AXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	XDJ-AERO /CUXJ	XDJ-AERO /SVWYXJ8	XDJ-AERO /LWPWXJ	XDJ-AERO /KXJ5	XDJ-AERO /AXJ5
	12	Rear Panel	DAH2886	DAH2883	DAH2887	DAH2890	DAH2888
NSP	39	Label	DRW2519	DRW2518	DRW2520	DRW2518	DRW2518
NSP	40	CCC S Label	Not used	Not used	Not used	Not used	DRW2310
	41	Leaf Spring /WF	DBK1378	Not used	Not used	DBK1378	Not used

9.3 CONTROL PANEL SECTION (1/2)

• Bottom view



(1) CONTROL PANEL SECTION (1/2) PARTS LIST

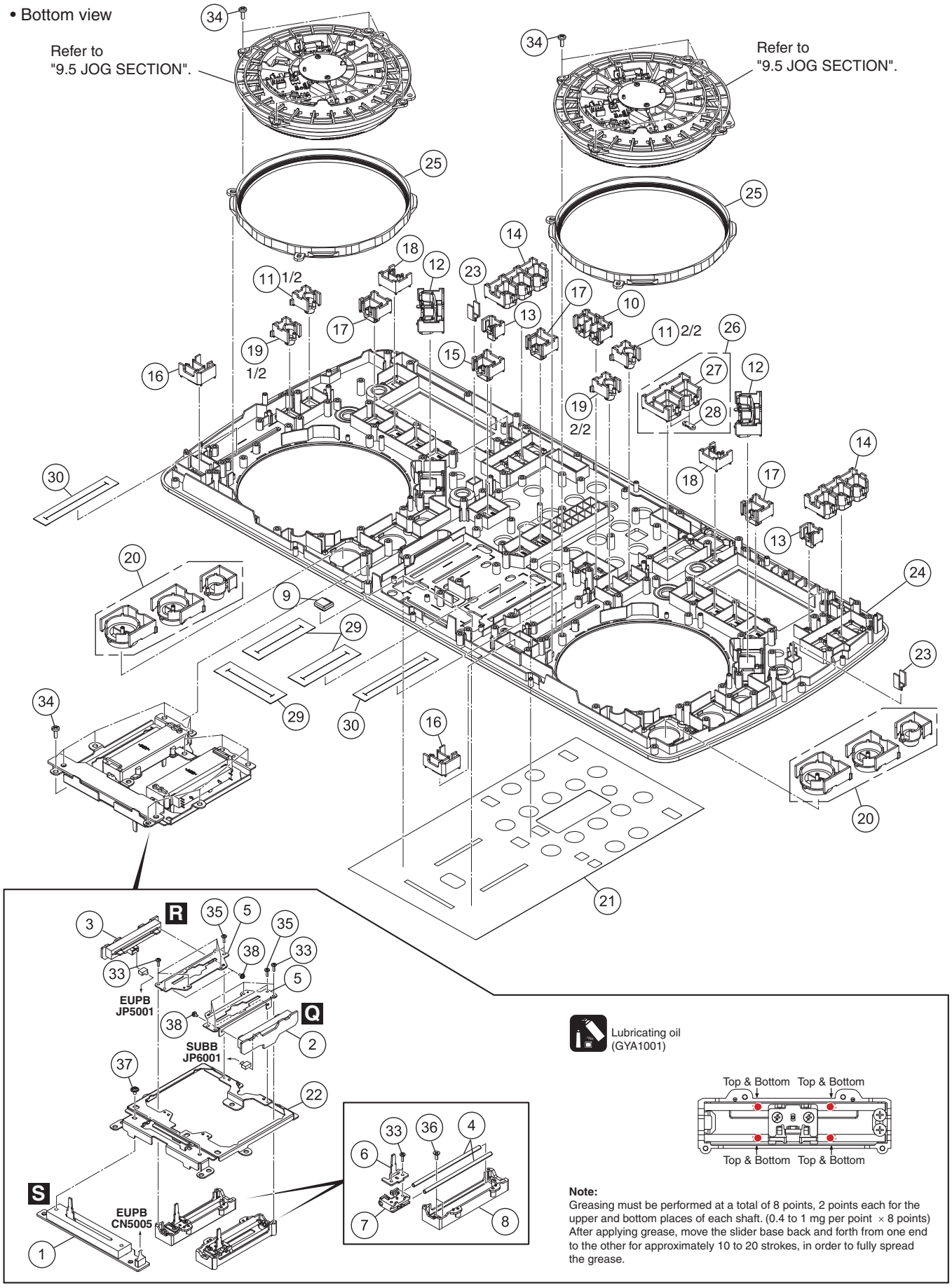
Mark	No.	Description	Part No.
	1	EUPB Assy	See Contrast table (2)
	2	SUBB Assy	DWX3352
	3	CCNB1 Assy	DWX3388
	4	CCNB2 Assy	DWX3391
	5	BLED1 Assy	DWX3375
	6	BLED2 Assy	DWX3390
	7	TMPB1 Assy	DWS1446
	8	TMPB2 Assy	DWS1453
	9	WLED Assy	DWX3376
	10	PSWB Assy	DWS1442
	11	STN LCD	YAW5113
	12	FFC/39P	DDD1612
	13	FFC/31P	DDD1614
	14	FFC/5P	DDD1615
	15	FFC/9P	DDD1616
	16	FFC/9P	DDD1621
	17	Light-D Sheet	YNM5199
	18	Packing/L	DEC3416
	19	Packing/S	DEC3417
	20	Holder/LCD	DNK6122
	21	Cover/LCD	DNK6123
	22	Lighting Cond/LCD	DNK6125
	23	SW Cap	DAC2753
	24	Button/TIM	DAC2849
	25	Cap/FDR	DAC2858
	26	FFC Guard	DEC2586
	27	Sheet/PL1	DEC3465
	28	Sheet/PL2	DEC3411
	29	I-Shield Sheet	DEC3435
	30	Sheet/PL3	DEC3436
	31	VR Stay S	DNH2964
	32	Stay/VRL	DNH3035
	33	Panel/VSL	DNK6087
	34	Lens/PWR	DNK6089
	35	Plate/F	DNK6166
	36	Plate/R	DNK6167
NSP	37	Label	VRW1773
	38	•••••	
	39	Screw	BPZ20P060FTC
	40	Screw	BPZ30P080FNI
	41	Screw	BBZ30P060FTB
	42	Screw	BPZ30P100FTB

(2) CONTRAST TABLE

XDJ-AERO/CUXJ, SVWYXJ8, LWPWXJ, KXJ5 and AXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	XDJ-AERO /CUXJ	XDJ-AERO /SVWYXJ8	XDJ-AERO /LWPWXJ	XDJ-AERO /KXJ5	XDJ-AERO /AXJ5
	1	EUPB Assy	DWX3351	DWX3400	DWX3351	DWX3400	DWX3400

9.4 CONTROL PANEL SECTION (2/2)



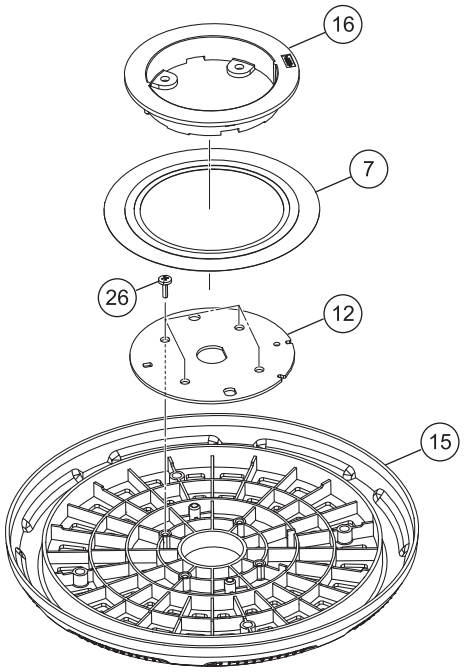
Note:
Greasing must be performed at a total of 8 points, 2 points each for the upper and bottom places of each shaft. (0.4 to 1 mg per point × 8 points) After applying grease, move the slider base back and forth from one end to the other for approximately 10 to 20 strokes, in order to fully spread the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

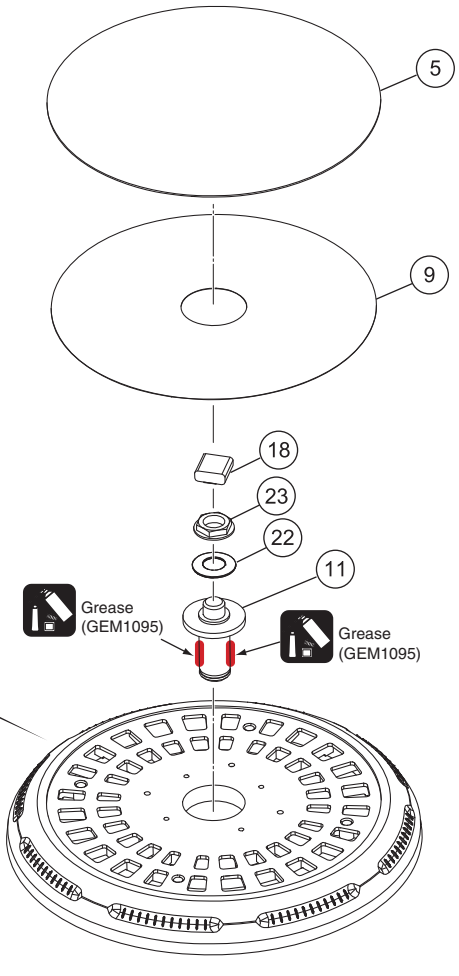
CONTROL PANEL SECTION (2/2) PARTS LIST

Mark	No.	Description	Part No.
	1	CRFD Assy	DWS1445
	2	CHFD1 Assy	DWS1444
	3	CHFD2 Assy	DWS1452
NSP	4	Guide Shaft (S)	DLA1918
	5	VR Stay	DNH2955
	6	Plate/LVR	DNH3034
	7	Slider Base	DNK5851
	8	Shaft Holder	DNK5852
	9	Gasket/JOG	DEC3415
	10	Button/HPC	DAC2843
	11	Button/TMP	DAC2845
	12	Button/JM	DAC2846
	13	Button/TIM	DAC2849
	14	Button/SEL	DAC2854
	15	Button/MIC	DAC2855
	16	Button/SYC	DAC2856
	17	Button/LVL	DAC2859
	18	Button/BCK	DAC2874
	19	Button/MT	DAC2875
	20	Button/PLY	DAC2876
	21	Plate/CTL	DAH2900
	22	Stay/FDR	DNH3037
	23	Lens	DNK5862
	24	Control Panel	DNK6086
	25	Lens/JOG	DNK6114
	26	1..USB Button Assy	DXA2249
	27	2..Button/USB	DAC2860
	28	2..LED Lens	DNK5553
	29	Fader Packing	DEC3355
	30	Slide VR Packing	DED1157
	31	•••••	
	32	•••••	
	33	Screw	BPZ20P060FTC
	34	Screw	BPZ30P080FNI
	35	Screw	BSZ20P040FTB
	36	Screw	CPZ26P080FTC
	37	Screw	IMZ30P040FTC
	38	Screw	PMH20P040FTC

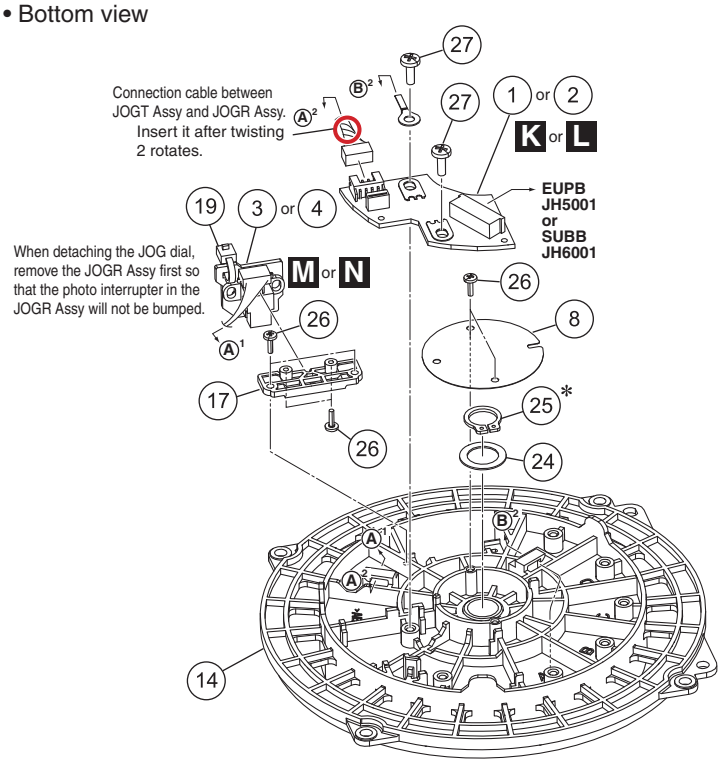
9.5 JOG SECTION

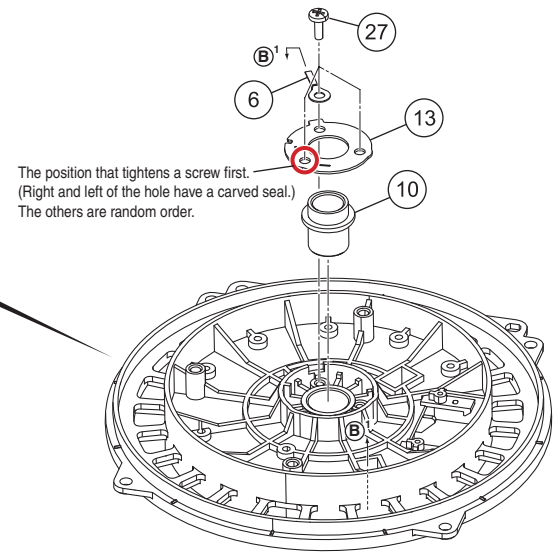
• Bottom view





• Bottom view

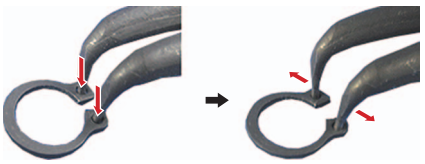




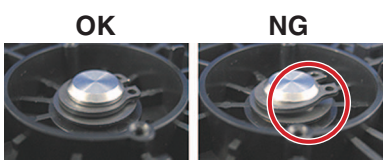
For Disassembly/Assembly of Washer (No. 25)

Please use the jig.
(Recommend Snap ring pryor.)

Insert the jig in the hole. Open the jig.



Washer is in the ditch.

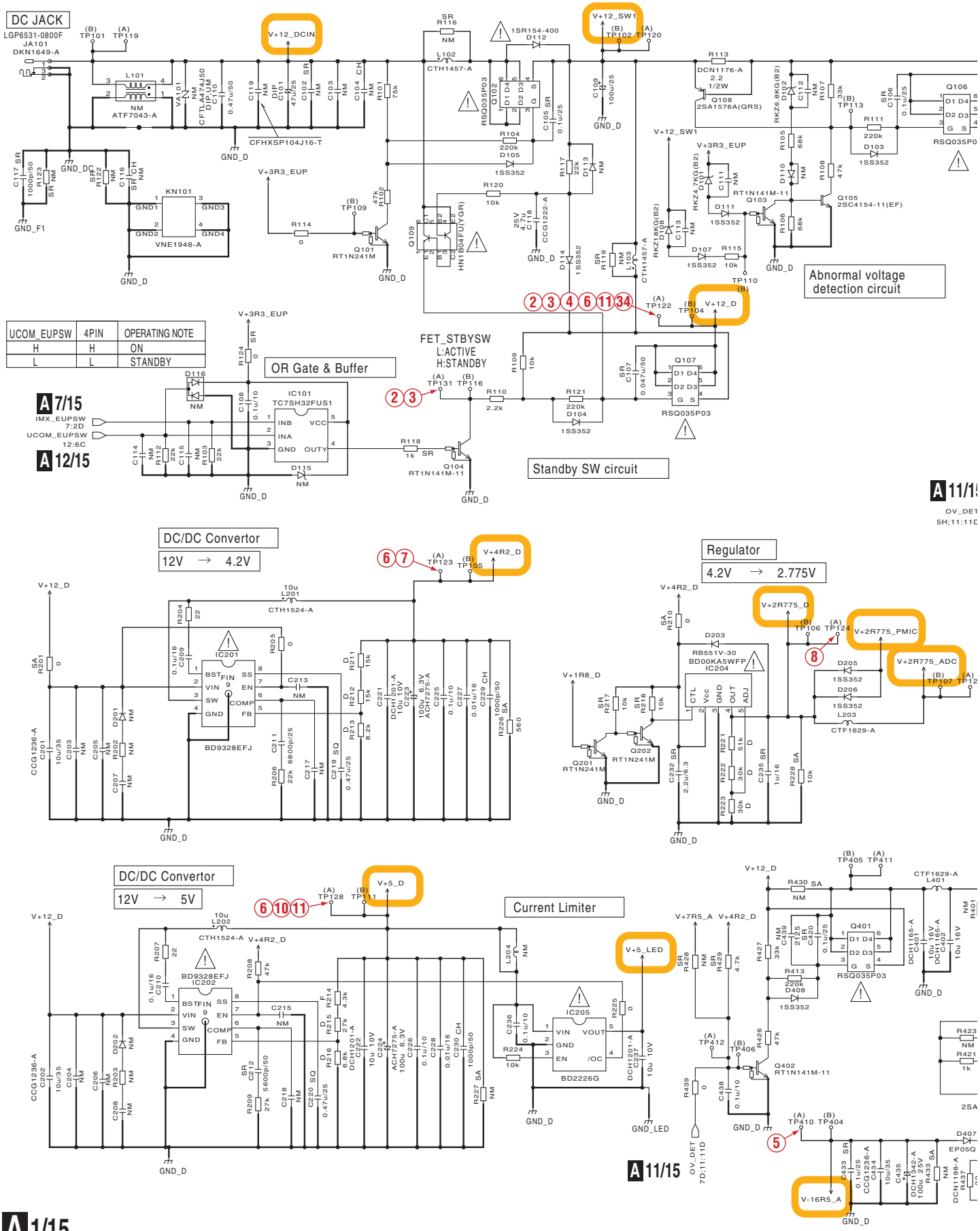


JOG SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	JOGT1 Assy	DWX3353
	2	JOGT2 Assy	DWX3389
	3	JOGR1 Assy	DWS1441
	4	JOGR2 Assy	DWS1451
	5	Plate/JOG	DAH2880
	6	Lead Wire	DDB1095
	7	Slit/JOG	DEC3408
	8	Barrier/JOG	DEC3414
	9	DS Tape/JOG	DEH1042
	10	Sleeve/JOG	DLA2203
	11	Shaft/JOG	DLA2204
	12	Base/JOG	DNH3025
	13	Stay/JOG	DNH3039
	14	Holder/JOG	DNK6073
	15	JOG Dial	DNK6074
	16	Attachment/SLT	DNK6075
	17	Attachment/OEM	DNK6076
	18	Gasket/JOG	DEC3415
	19	Binder	ZCA-SKB90BK
	20	•••••	
	21	•••••	
	22	Spring Washer/M7	DBE1015
	23	Flange Nut M7	DBN1011
	24	Washer	WAX0D150D050
	25	Washer	YCX0FAC
	26	Screw	BPZ20P060FTC
	27	Screw	BPZ30P080FNI

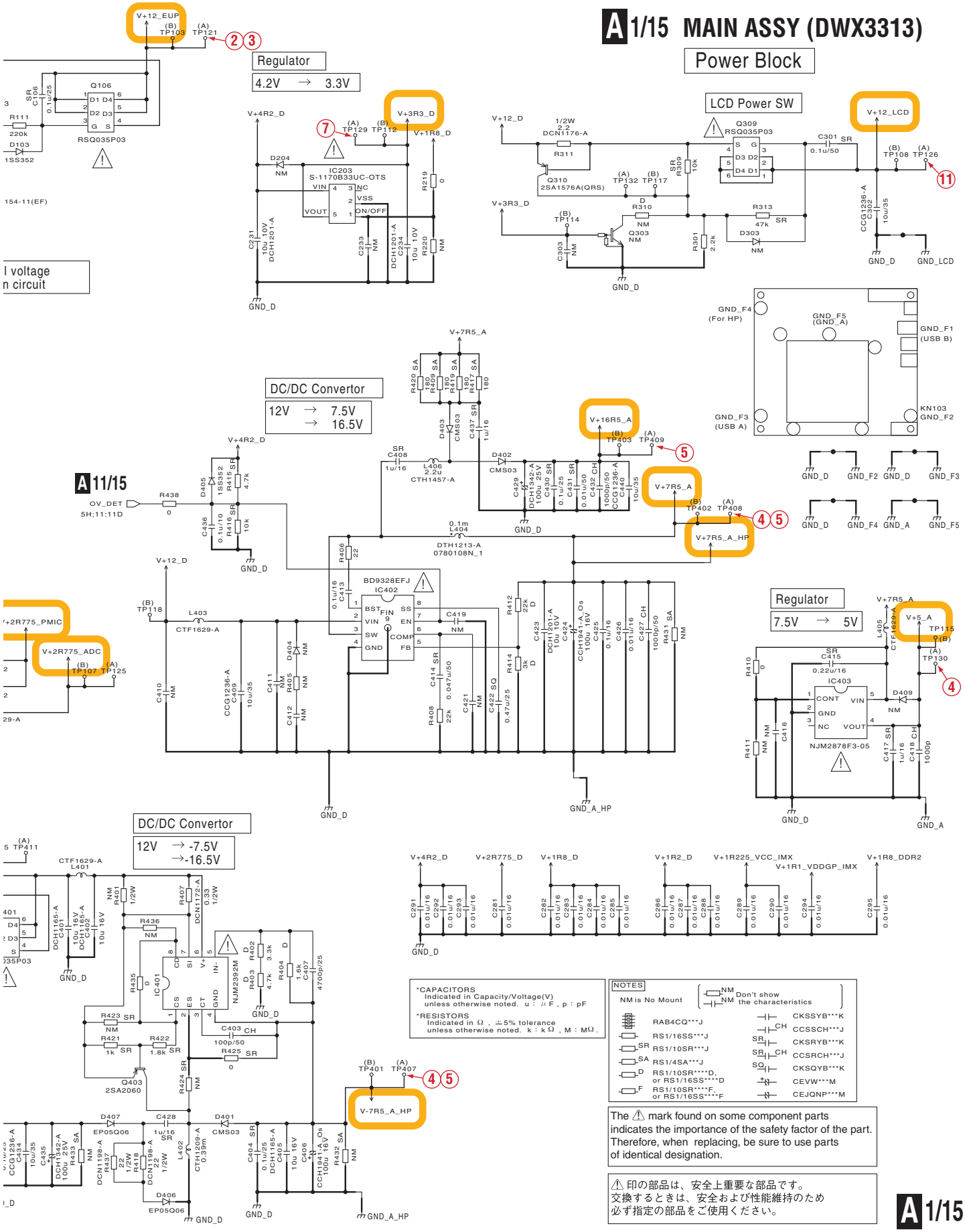
10. SCHEMATIC DIAGRAM

10.1 MAIN ASSY (1/15)

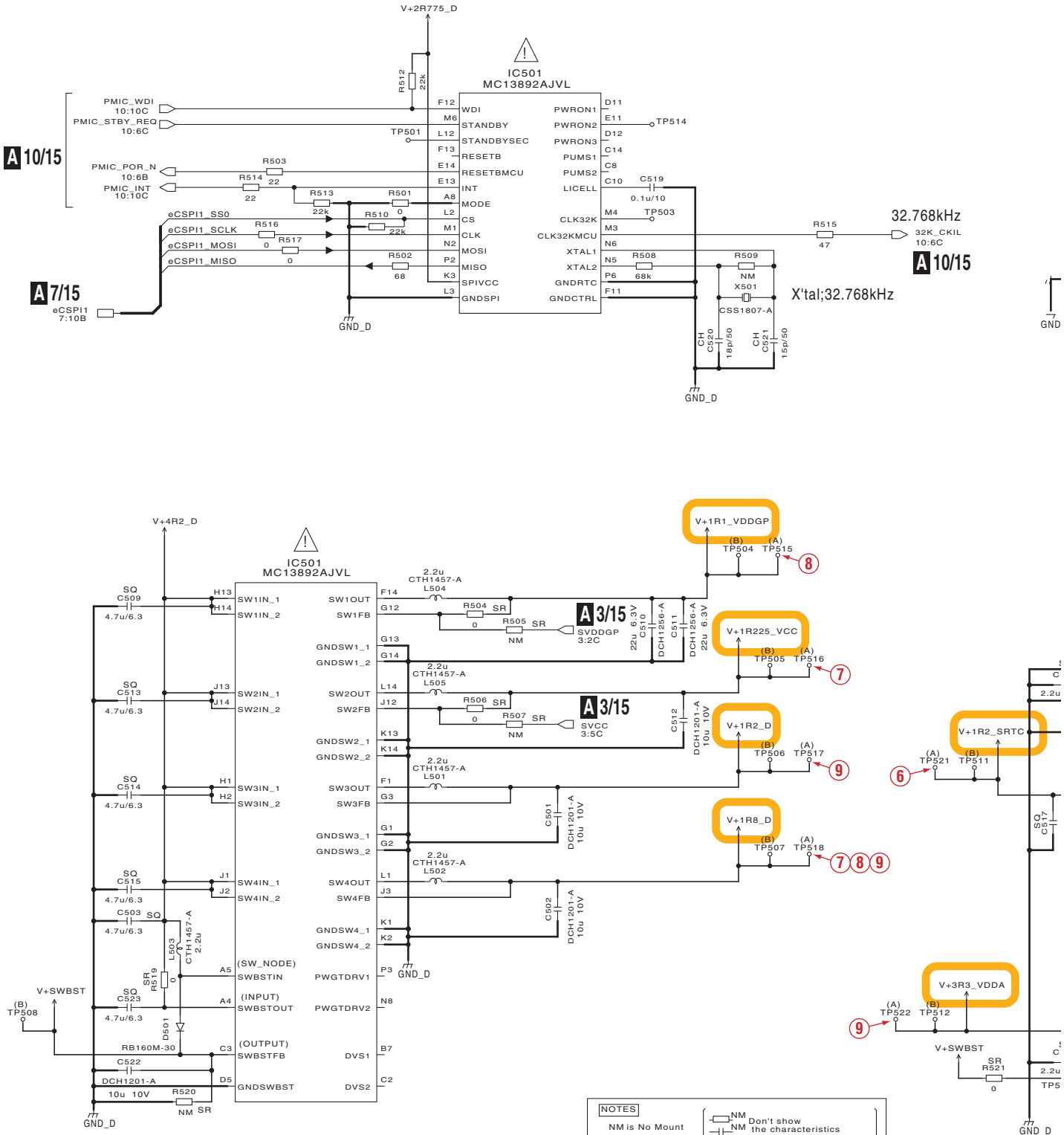


A 1/15 MAIN ASSY (DWX3313)

Power Block



10.2 MAIN ASSY (2/15)



NOTES
NM is No Mount
NM Don't show the characteristics

RAB4CQ***J
RS1/16SS***J
SR RS1/10SR***J
SA RS1/4SA***J
D RS1/10SR****D, or RS1/16SS****D
F RS1/10SR****F, or RS1/16SS****F
CKSSYB***K
CH CCSSCH***J
SR CKSRYB***K
SR CH CCSRCH***J
SQ CKSQYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V) unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance unless otherwise noted. k : kΩ , M : MΩ.

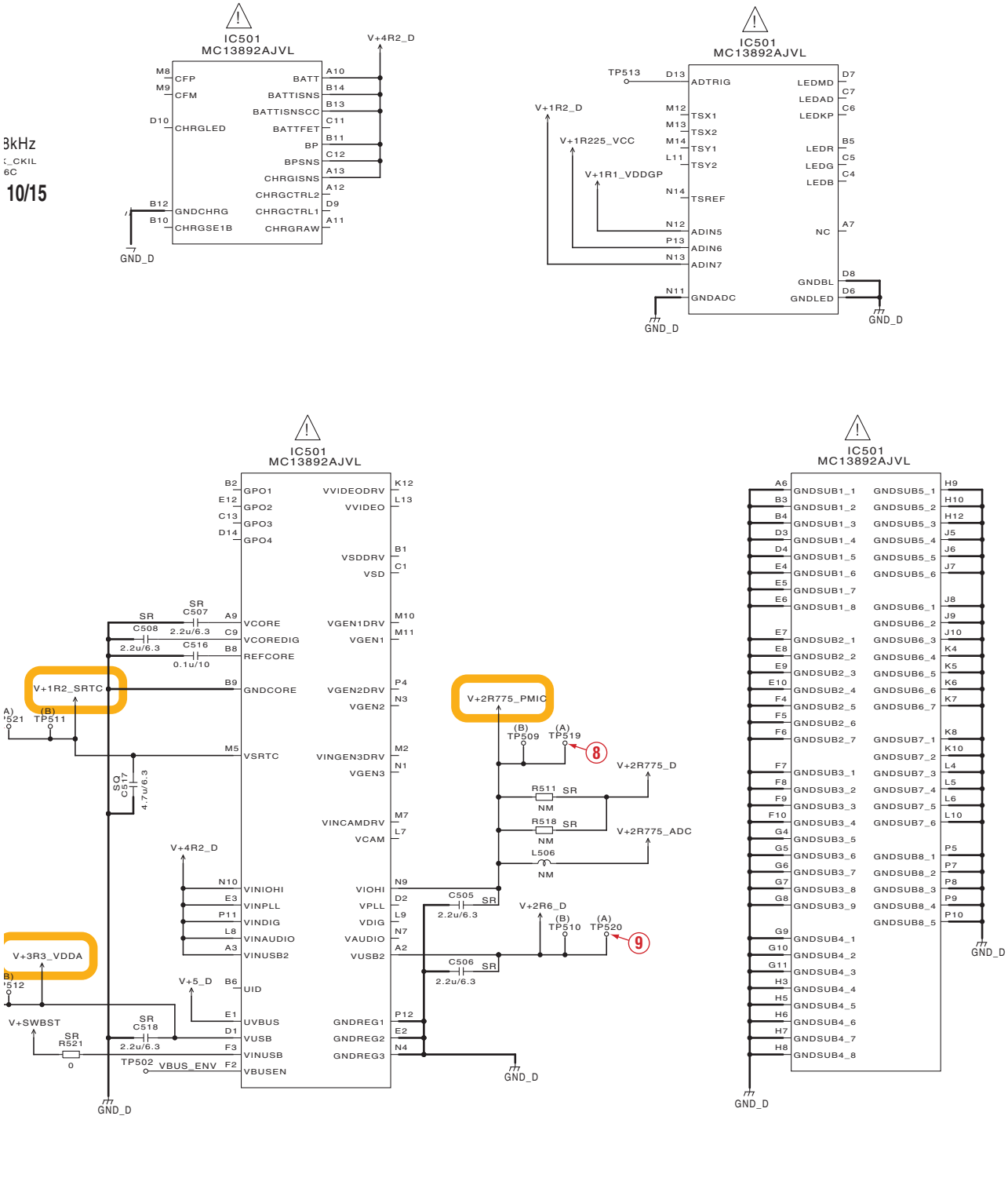
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

⚠ 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。

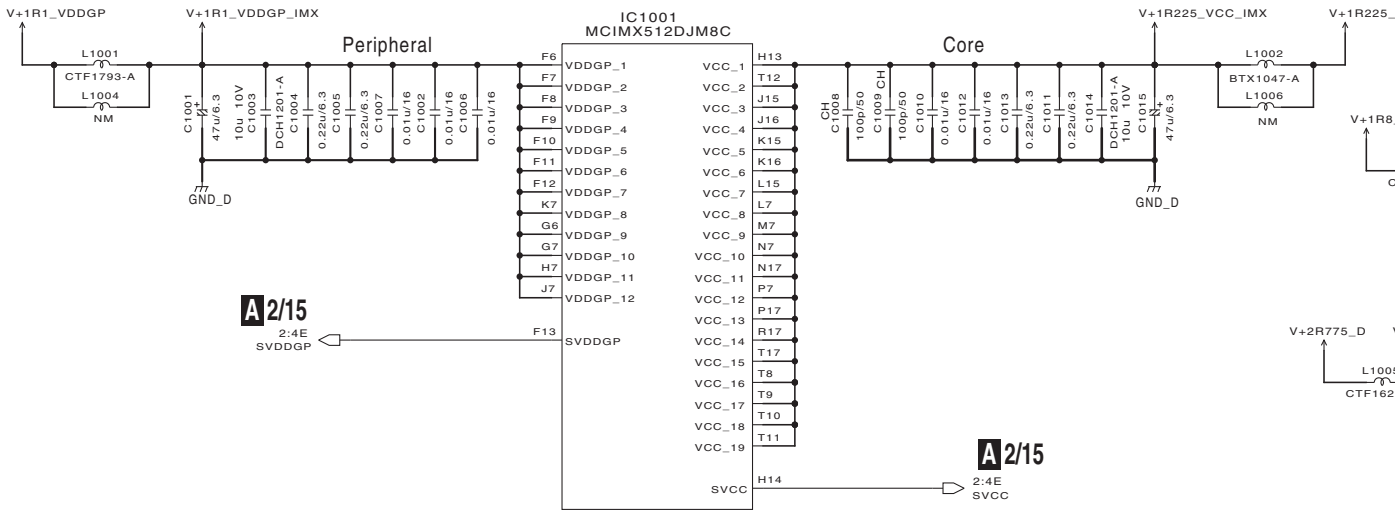
A 2/15

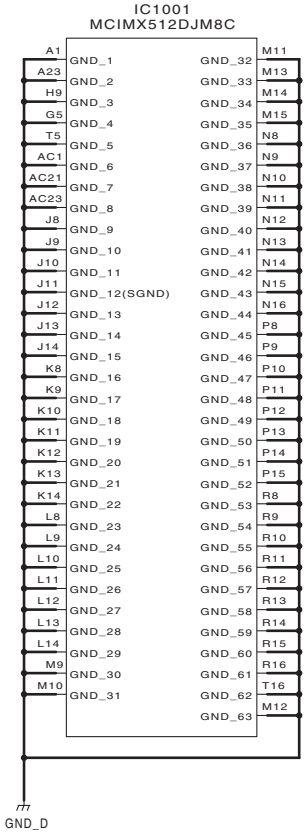
A 2/15 MAIN ASSY (DWX3313)

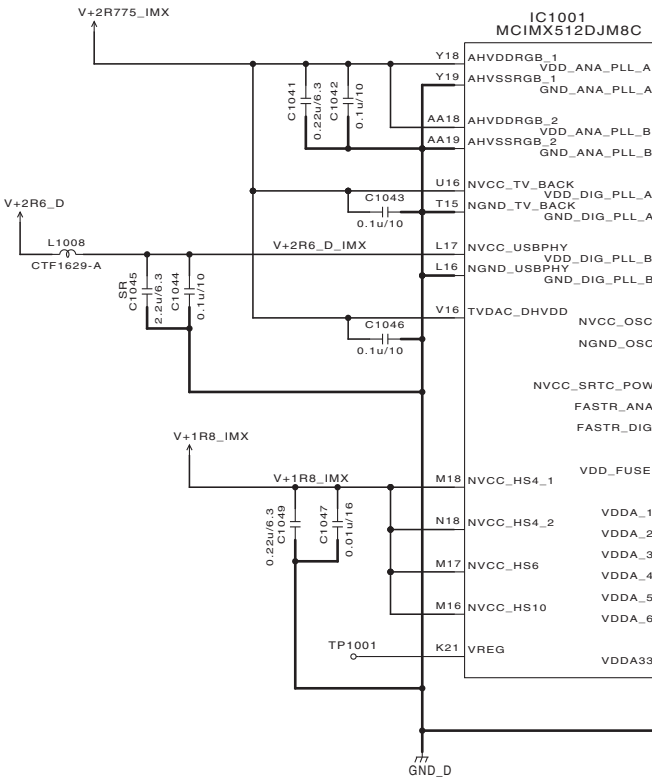
Power Management IC Block



10.3 MAIN ASSY (3/15)



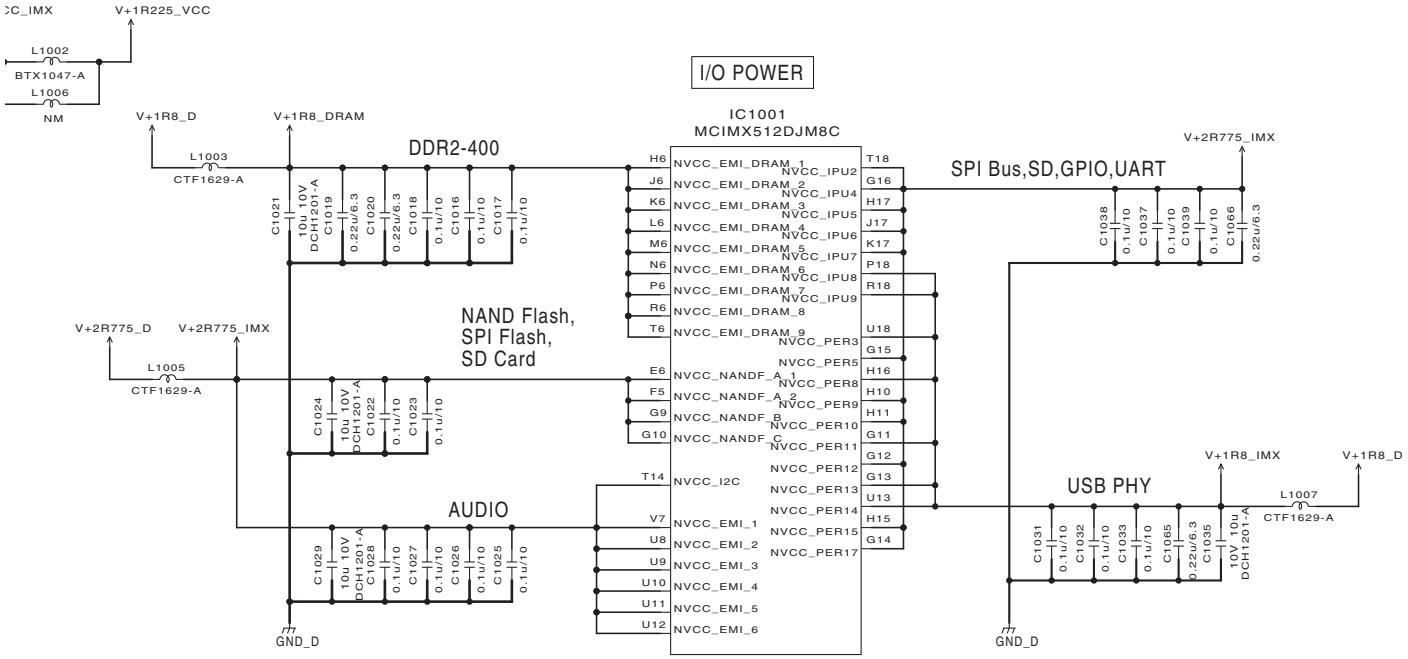


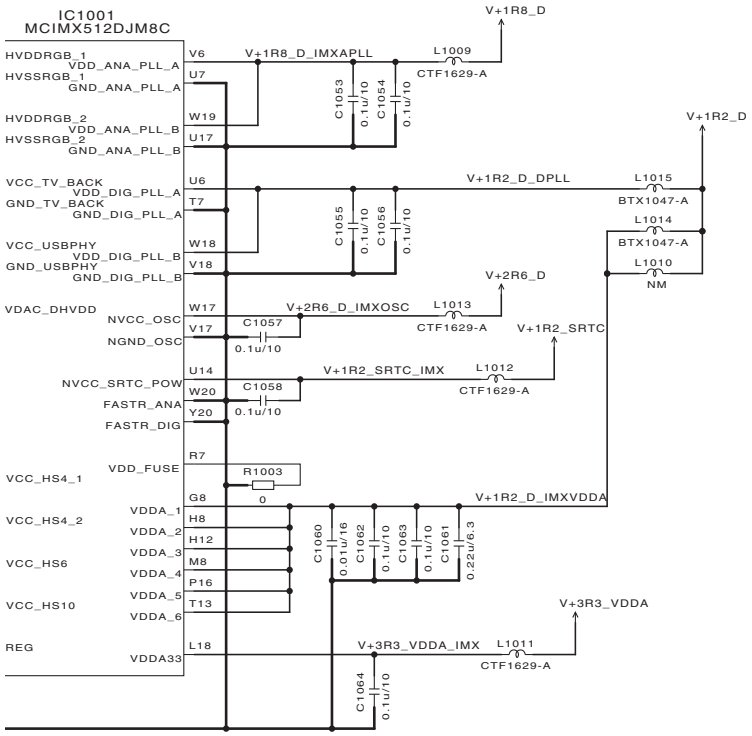


A 3/15

A 3/15 MAIN ASSY (DWX3313)

IMX Power Block





NOTES

NM is No Mount

NM Don't show the characteristics

RAB4CQ***J

RS1/16SS***J

RS1/10SR***J

RS1/4SA***J

RS1/10SR****D, or RS1/16SS****D

RS1/10SR****F, or RS1/16SS****F

CKSSYB***K

CCSSCH***J

CKSRYB***K

CCSRCH***J

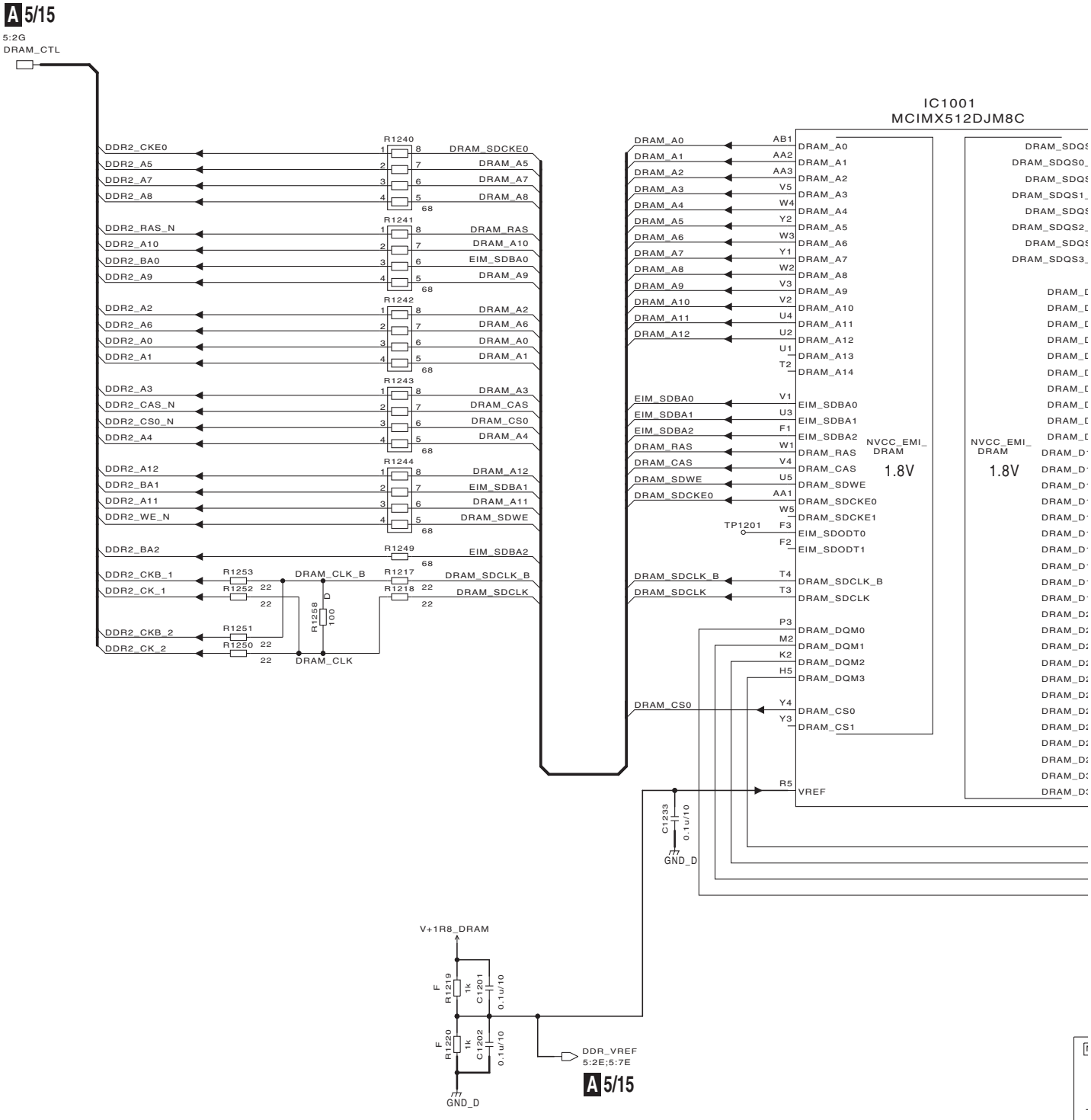
CKSQYB***K

CEHVW***M

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

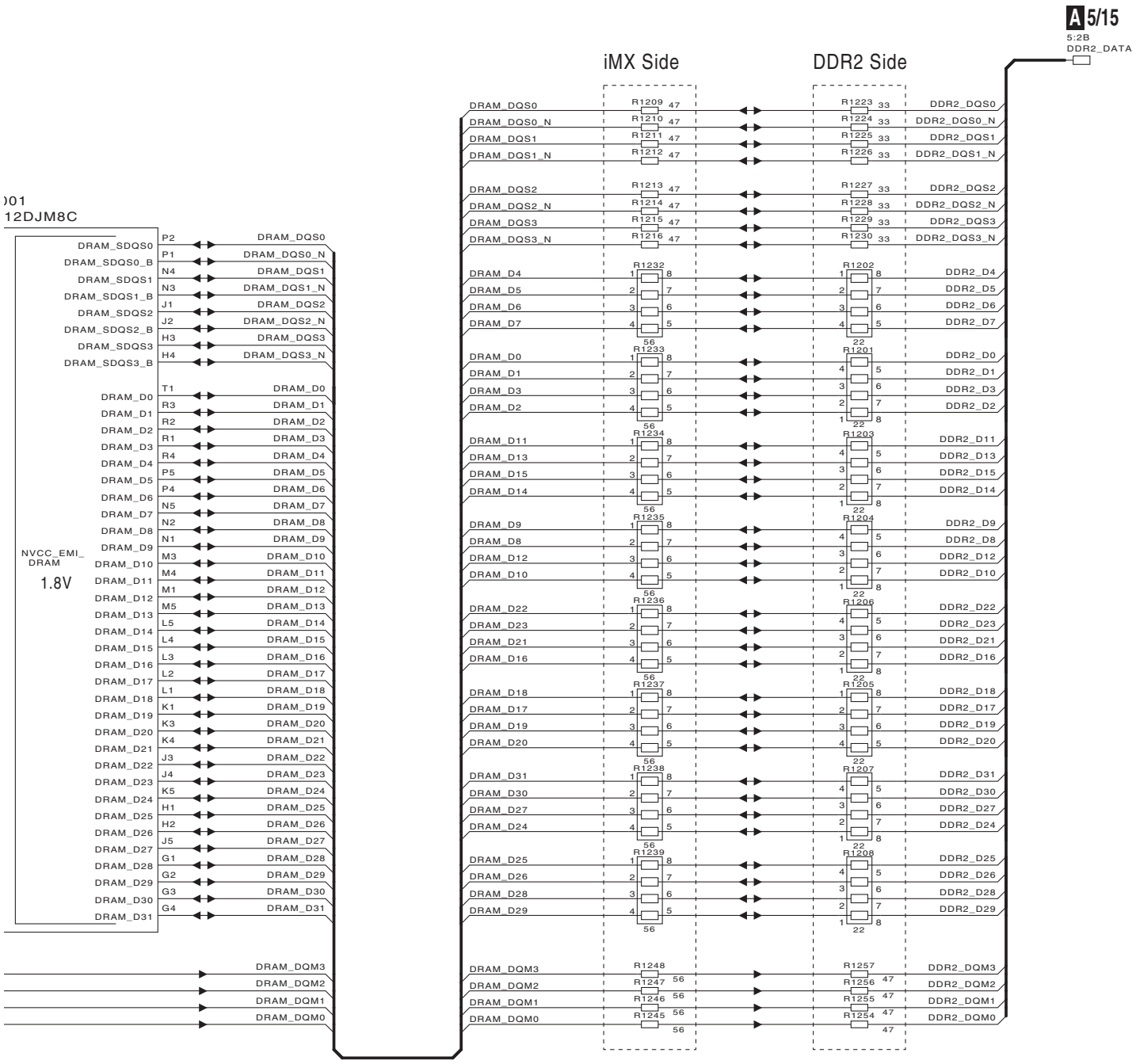
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

10.4 MAIN ASSY (4/15)



A 4/15 MAIN ASSY (DWX3313)

DDR2 Controller Block



NOTES

NM is No Mount

NM Don't show the characteristics

RAB4CQ***J

RS1/16SS***J

SR RS1/10SR***J

SA RS1/4SA***J

D RS1/10SR****D, or RS1/16SS****D

F RS1/10SR****F, or RS1/16SS****F

CKSSYB***K

CH CCSSCH***J

SR CKSRYB***K

SR CH CCSRCH***J

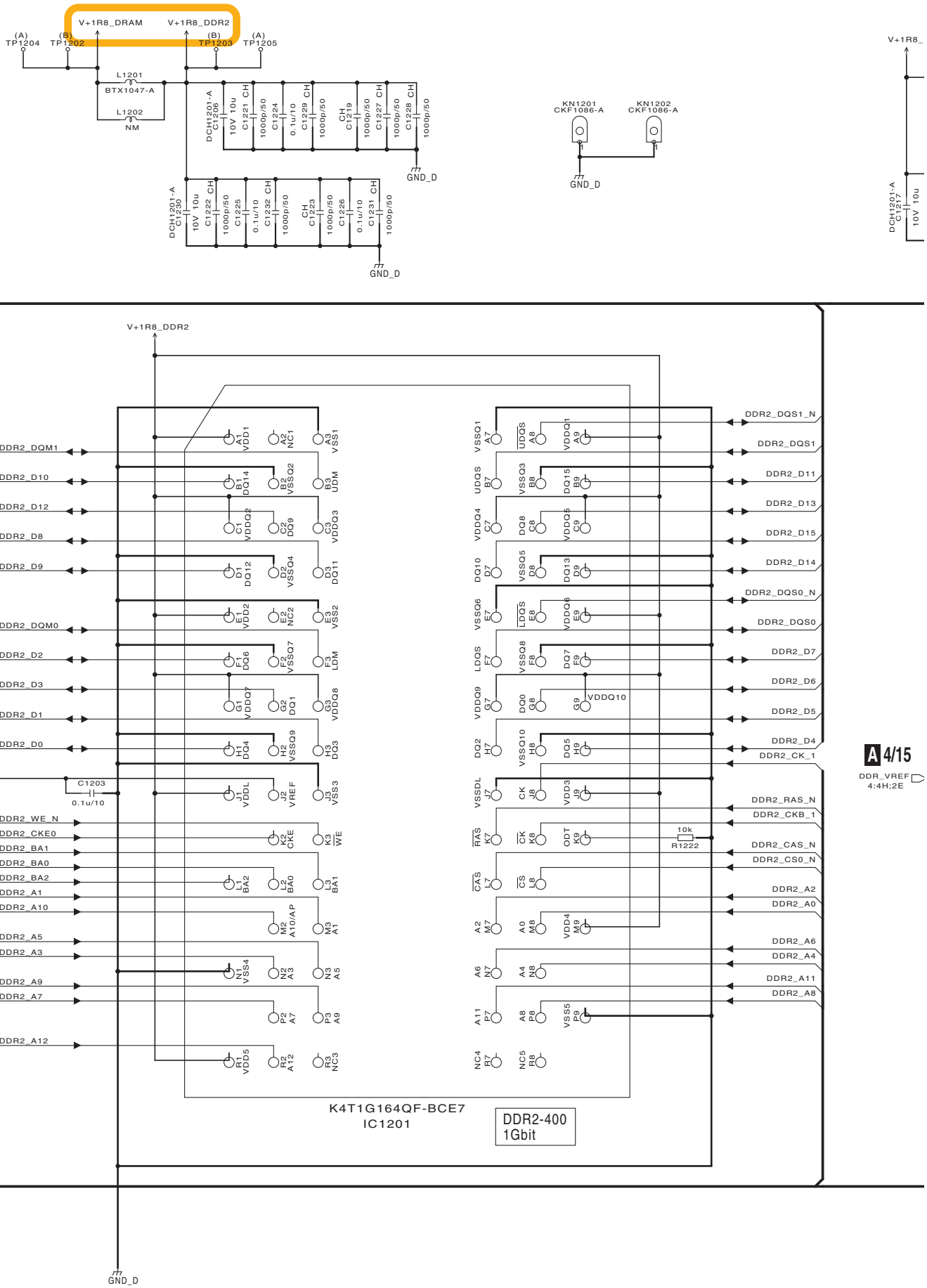
SQ CKSQYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

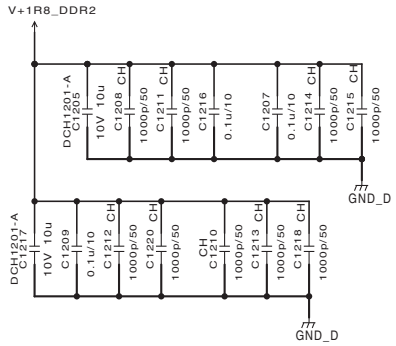
A 4/15

10.5 MAIN ASSY (5/15)



A 5/15 MAIN ASSY (DWX3313)

DDR2 Memory Block

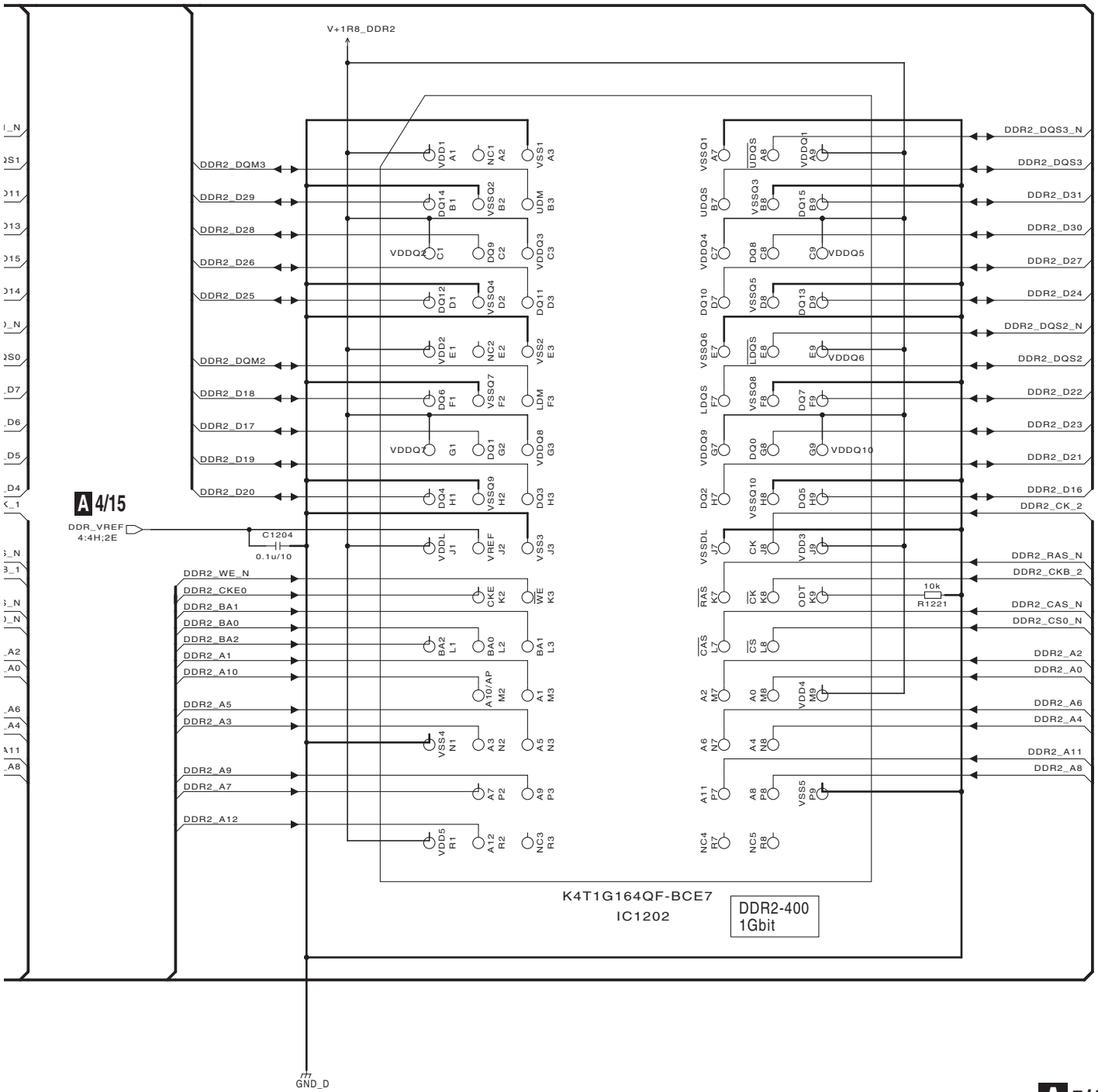


NOTES
NM is No Mount
NM Don't show the characteristics

	RAB4CQ***J		
	RS1/16SS***J		CKSSYB***K
SR	RS1/10SR***J	CH	CCSSCH***J
SA	RS1/4SA***J	SR	CKSRYB***K
D	RS1/10SR****D, or RS1/16SS****D	SR CH	CCSRCH***J
F	RS1/10SR****F, or RS1/16SS****F	SQ	CKSQYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

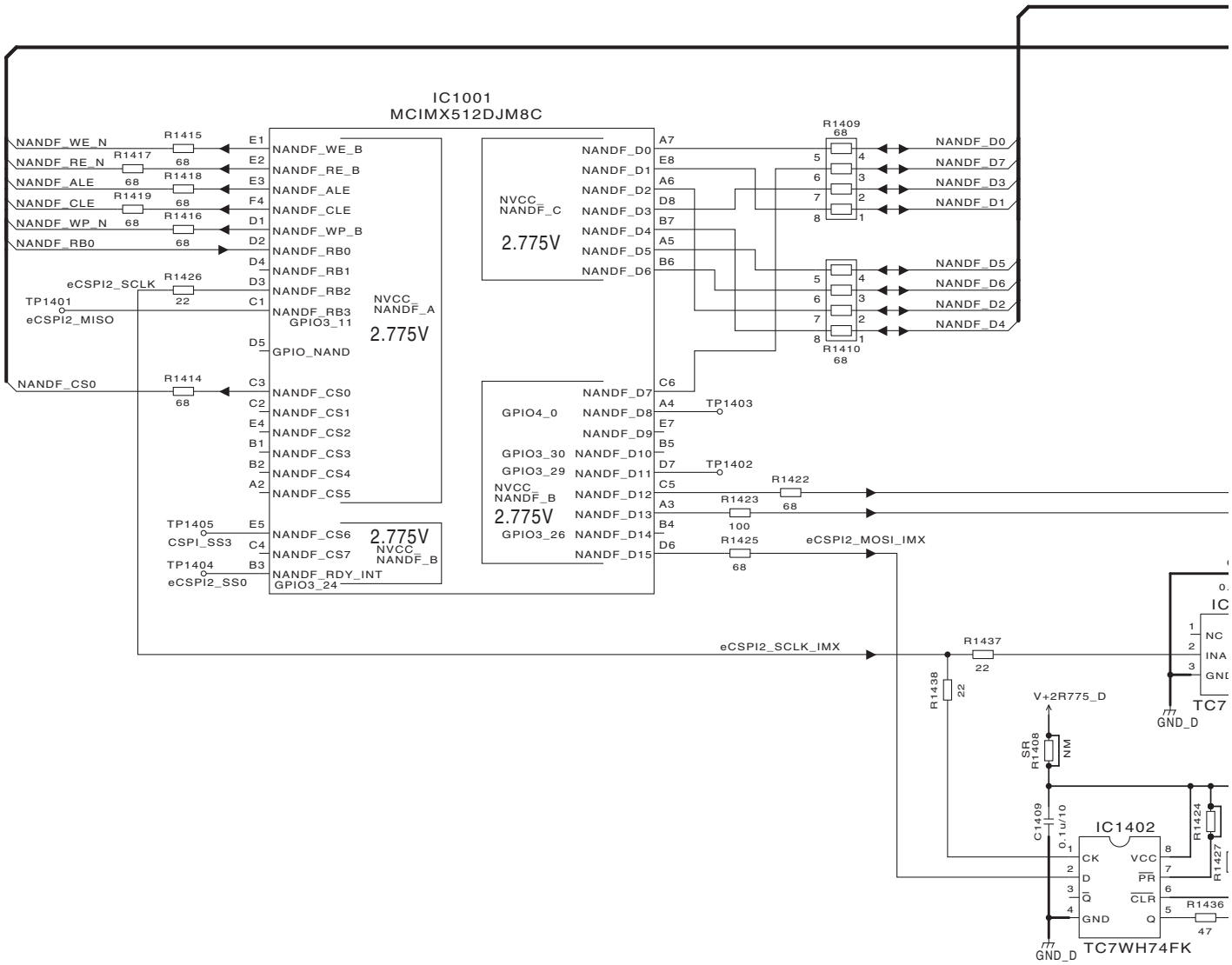
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.



K4T1G164QF-BCE7
IC1202

DDR2-400
1Gbit

10.6 MAIN ASSY (6/15)



NOTES

NM is No Mount

NM Don't show the characteristics

RAB4CQ***J

RS1/16SS***J

SR RS1/10SR***J

SA RS1/4SA***J

D RS1/10SR****D, or RS1/16SS****D

F RS1/10SR****F, or RS1/16SS****F

CKSSYB***K

CH CCSSCH***J

SR CKSRYB***K

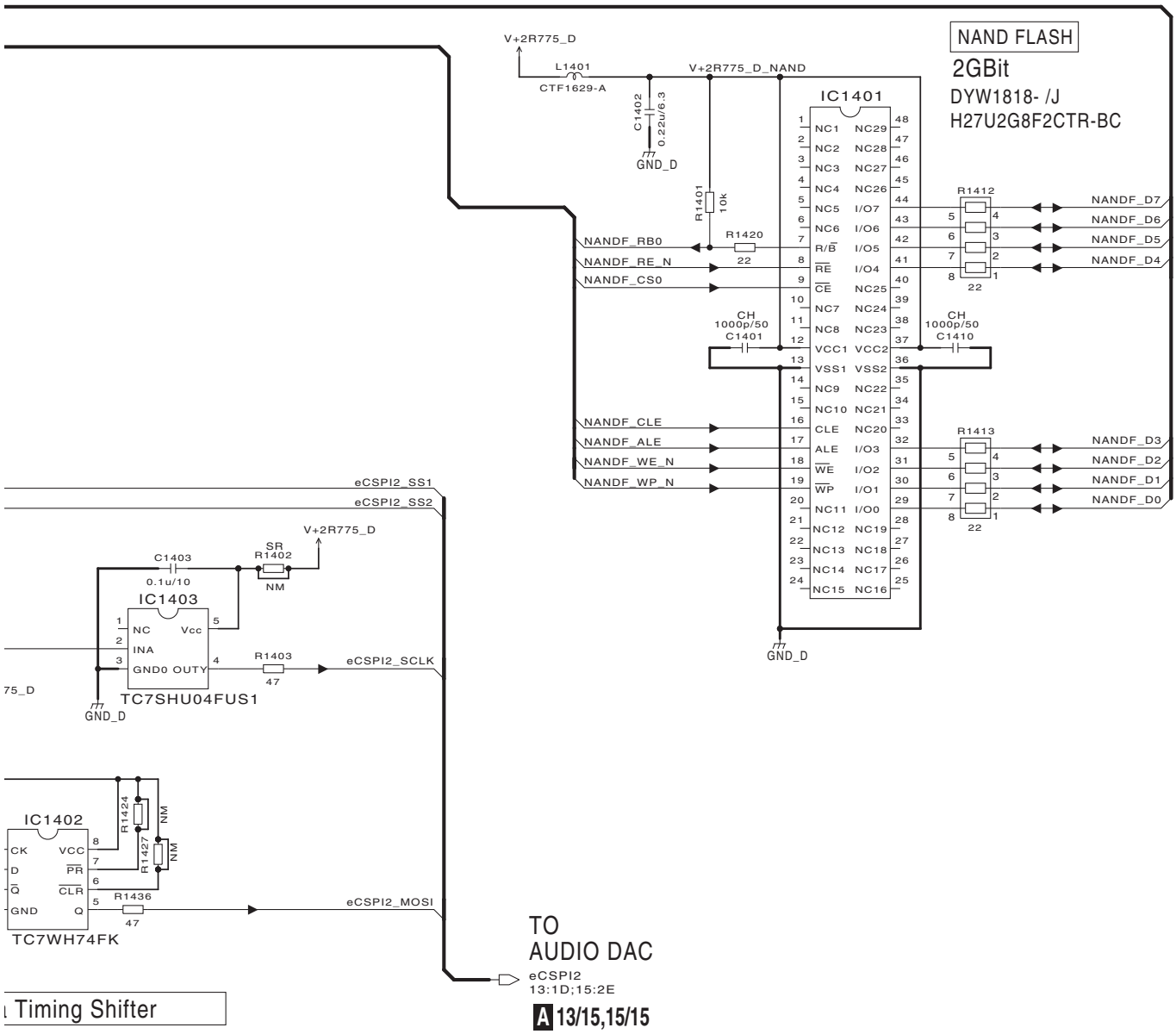
SR CH CCSRCH***J

SQ CKSQYB***K

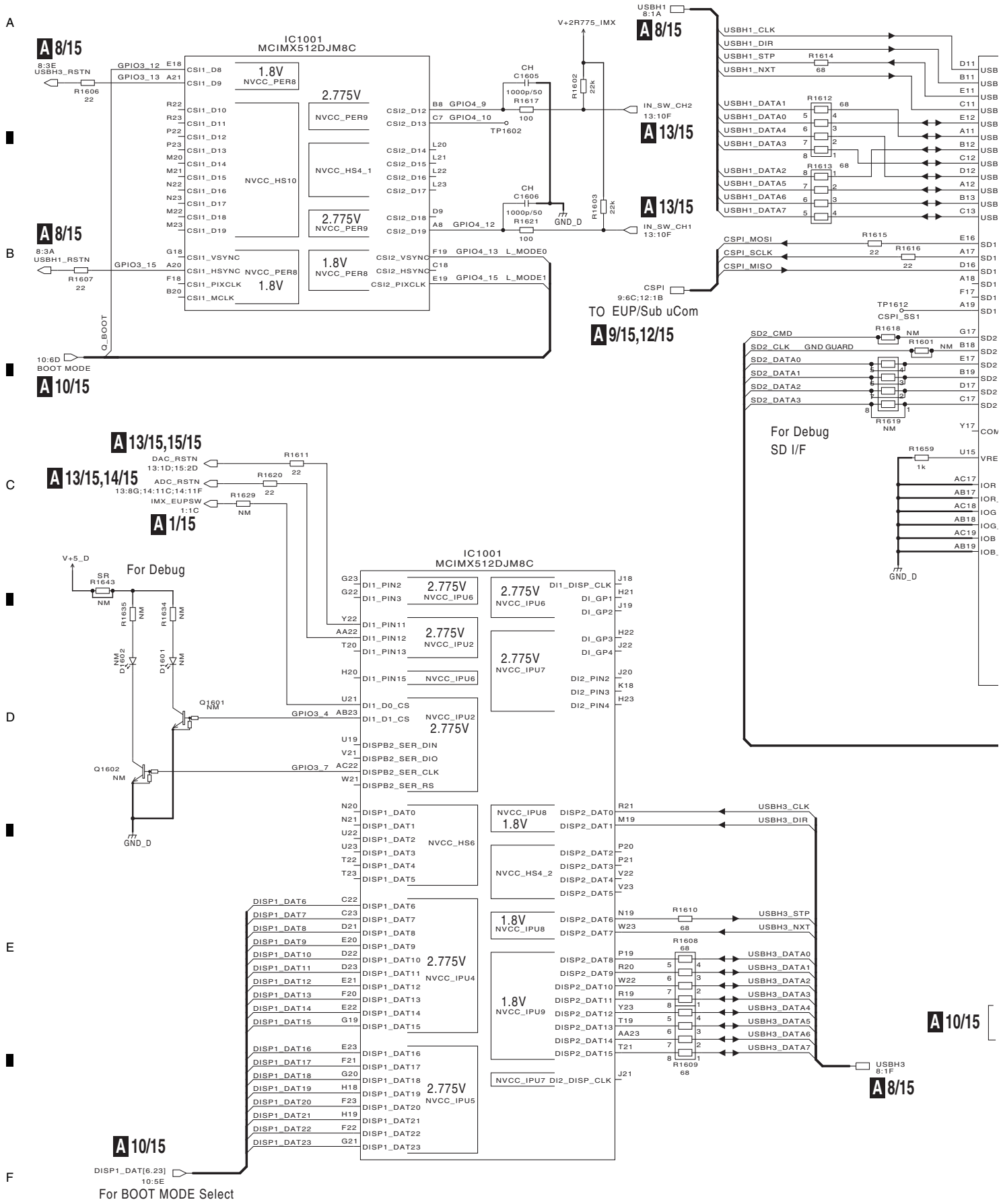
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

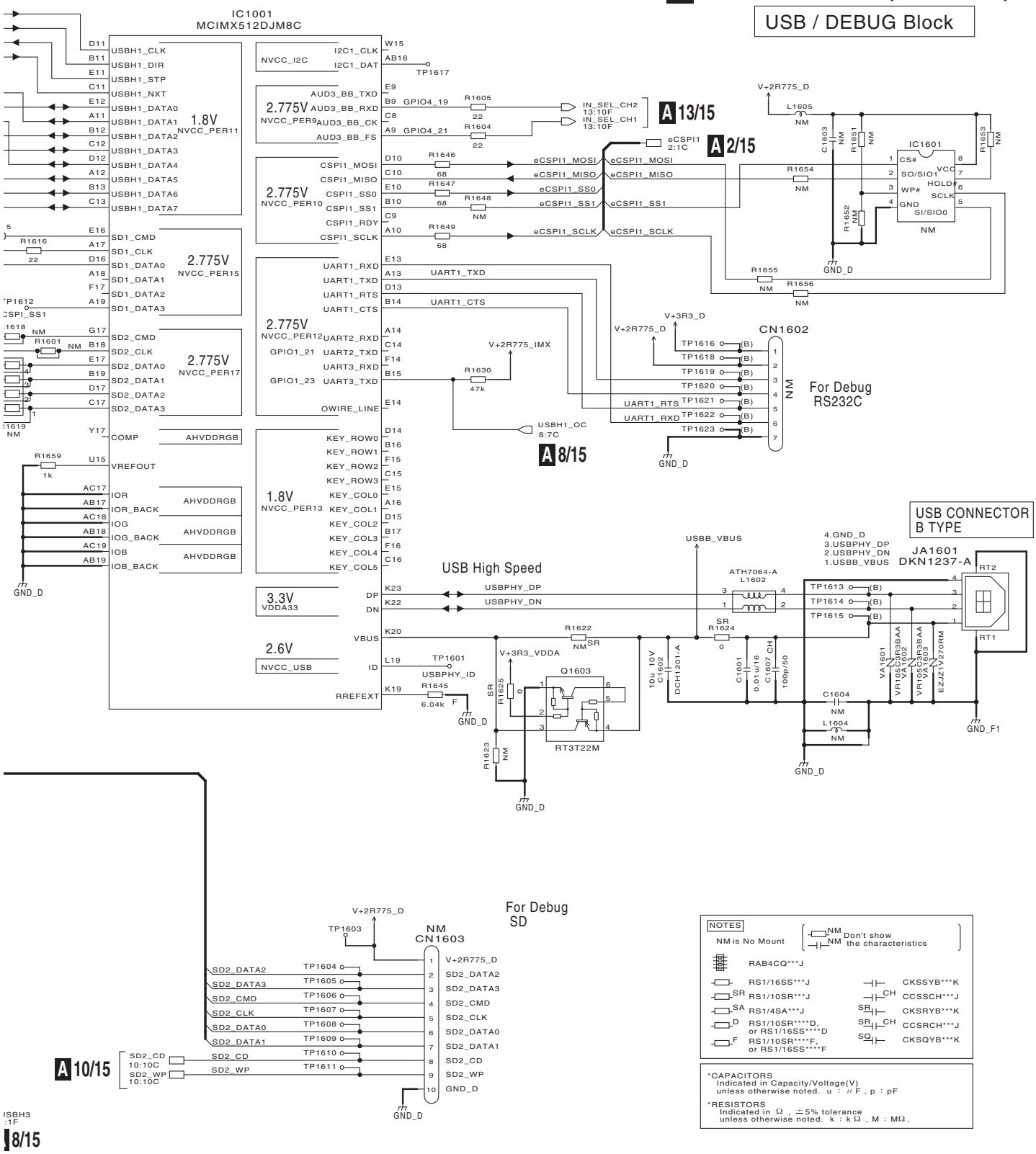
A 6/15


NAND FLASH
2GBit
DYW1818- /J
H27U2G8F2CTR-BC
IC1401
V+2R775_D
L1401
CTF1629-A
V+2R775_D_NAND
C1402
0.22u/6.3
GND_D
R1401
10K
R1420
22
NANDF_RB0
NANDF_RE_N
NANDF_CS0
CH
1000p/50
C1401
CH
1000p/50
C1410
R1412
22
NANDF_D7
NANDF_D6
NANDF_D5
NANDF_D4
R1413
22
NANDF_D3
NANDF_D2
NANDF_D1
NANDF_D0
NANDF_CLE
NANDF_ALE
NANDF_WE_N
NANDF_WP_N
NC1 NC29
NC2 NC28
NC3 NC27
NC4 NC26
NC5 I/O7
NC6 I/O6
R/B I/O5
RE I/O4
CE NC25
NC7 NC24
NC8 NC23
VCC1 VCC2
VSS1 VSS2
NC9 NC22
NC10 NC21
CLE NC20
ALE I/O3
WE I/O2
WP I/O1
NC11 I/O0
NC12 NC19
NC13 NC18
NC14 NC17
NC15 NC16
eCSPI2_SS1
eCSPI2_SS2
V+2R775_D
C1403
0.1u/10
SR
R1402
NM
IC1403
NC
Vcc
INA
GND0 OUTY
R1403
47
eCSPI2_SCLK
TC7SHU04FUS1
GND_D
IC1402
R1424
R1427
NM
CK
VCC
D
PR
Q
CLR
GND
R1436
47
eCSPI2_MOSI
TC7WH74FK
TO
AUDIO DAC
eCSPI2
13:1D;15:2E
A 13/15,15/15
Timing Shifter

10.7 MAIN ASSY (7/15)



USB / DEBUG Block



NOTES

NM is No Mount

NM Don't show the characteristics

RAB4CQ***J

RS1/16SS***J

SR RS1/10SR***J

SA RS1/4SA***J

D RS1/10SR****D, or RS1/16SS****D

F RS1/10SR****F, or RS1/16SS****F

CKSSYB***K

CH CCSSCH***J

SR CKSRYB***K

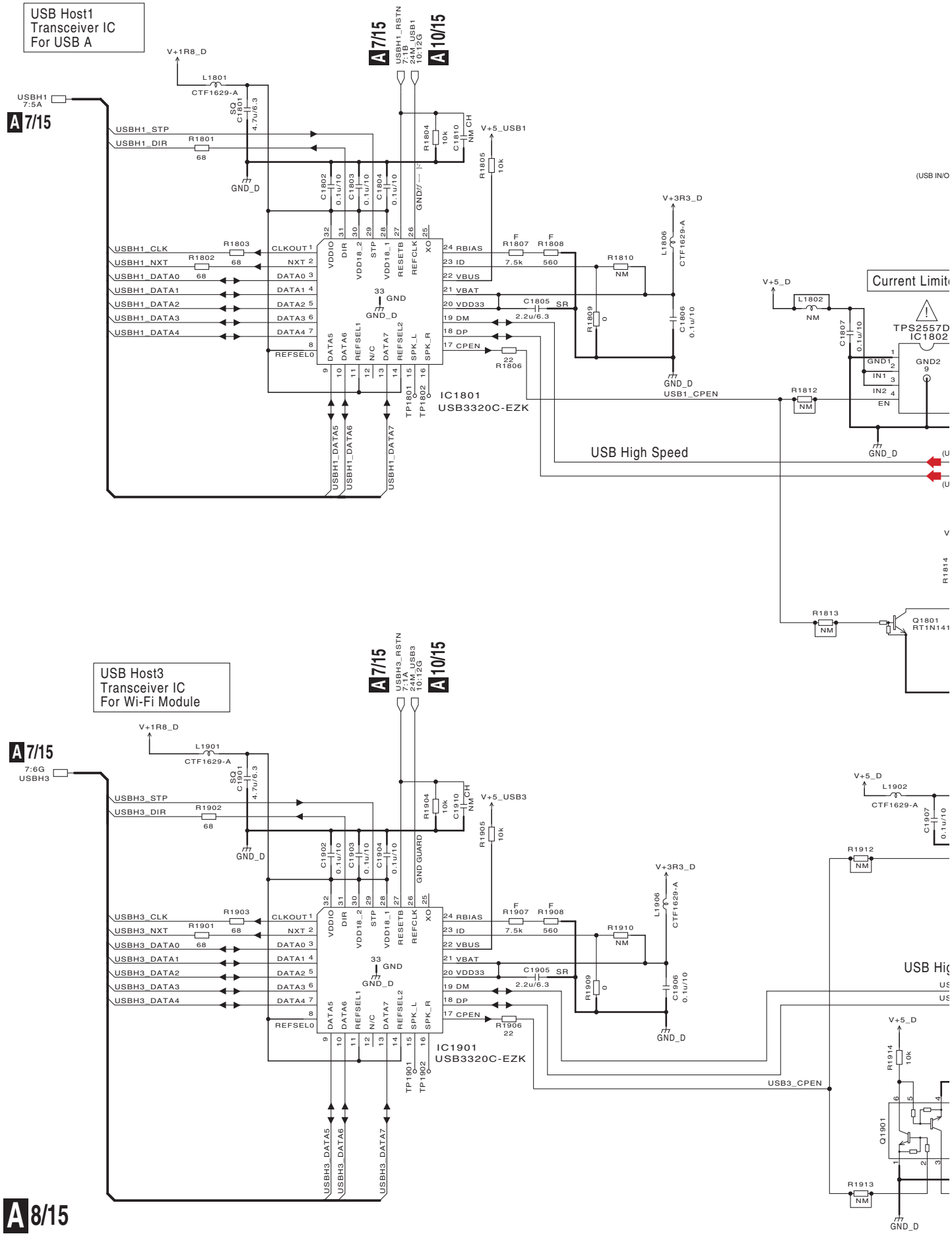
SR CH CCSRCH***J

SQ CKSQYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V) unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance unless otherwise noted. k : kΩ , M : MΩ.

10.8 MAIN ASSY (8/15)



A 8/15 MAIN ASSY (DWX3313)

USB Transceiver Block

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。

(USB IN/OUT) ➡ : USB IN/OUT Signal

NOTES
NM is No Mount
NM / NM Don't show the characteristics
RAB4CQ***J
RS1/16SS***J
SR RS1/10SR***J
SA RS1/4SA***J
D RS1/10SR****D, or RS1/16SS****D
F RS1/10SR****F, or RS1/16SS****F
CKSSYB***K
CH CCSSCH***J
SR CKSRYB***K
SR CH CCSRCH***J
SQ CKSQYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF, p : pF

*RESISTORS
Indicated in Ω, ±5% tolerance
unless otherwise noted. k : kΩ, M : MΩ.

Current Limiter

IC1802 TPS2557DRB
GND1, IN1, IN2, EN, GND2, FAULT, OUT2, OUT1, ILIM
C1807 0.1u/10
R1815 NM
A 7/15 USBH1_OC 7:9C
L1804 CTF1793-A
D R1811 82k
D R1819 2.2k
V+5_USB1
C1811 330u/6.3
C1808 100u/16
C1809 0.01u/16
R1818 4.7k
L1803 NM
L1805 NM
GND_D
(USB IN/OUT) USB1_DN
(USB IN/OUT) USB1_DP
R1820 100 SR
R1821 100 SR
R1816 100 SR
R1817 100 SR
V+5_D
R1814 10k
R1822 10k
R1823 10k
Q1801 RT1N141M-11
Q1802 2SC4154-11(EF)

10
TP1807 (A)
TP1803 (B)
TP1804 (B)
TP1805 (B)
TP1806 (B)
KM200NA7L CN1801
C1812 CH 1000p/50
L1807 CTF1793-A
R1825 NM SA
GND_USBA
VA1801 NM
VA1802 NM
VA1803 NM
GND_F3

D CN8001 For USB A
1 GND_USBA
2 V+5_USB1
3 V+5_USB1
4 USB1_DN
5 USB1_DP
6 GND_USBA
7 GND_USBA_S

Current Limiter

V+5_D
L1902 CTF1629-A
C1907 0.1u/10
IC1902 BD2226G
VIN, GND, EN, VOUT, /OC
R1912 NM
R1917 NM
USBH3_OC 10:10C
A 10/15
V+5_USB3
C1908 100u/16
C1909 0.01u/16
R1918 4.7k
L1904 CTF1629-A

10
TP1907 (A)
TP1903 (B)
TP1904 (B)
TP1905 (B)
TP1906 (B)
DDA1045-C CN1901
CH C1911 NM
ATH7064-A L1903
L1905 CTF1629-A
R1919 NM SA
GND_D
GND_WIFI

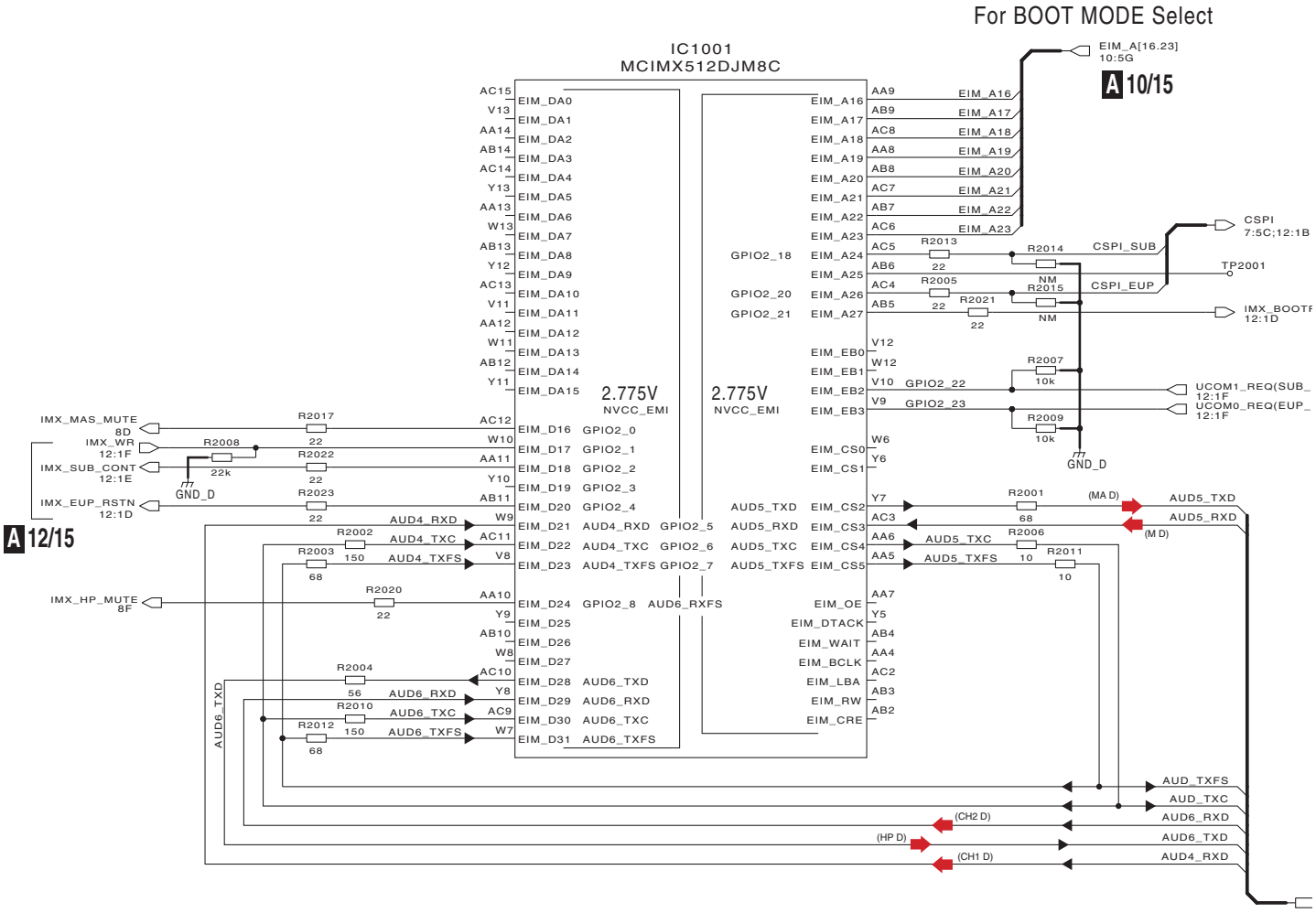
TO/FROM WiFi MODULE (DXF1015-) For WiFi
5 V+5_USB3
4 USB3_DN
3 USB3_DP
2 GND_WIFI
1 GND_WIFI

USB High Speed
USB3_DN
USB3_DP

V+5_D
R1914 10k
Q1901 RT3N22M
R1915 NM SR
R1916 470 SR
R1913 NM
GND_D

A 8/15

10.9 MAIN ASSY (9/15)



AUD4
INPUT1

AUD5
MASTER/MIC-AUX

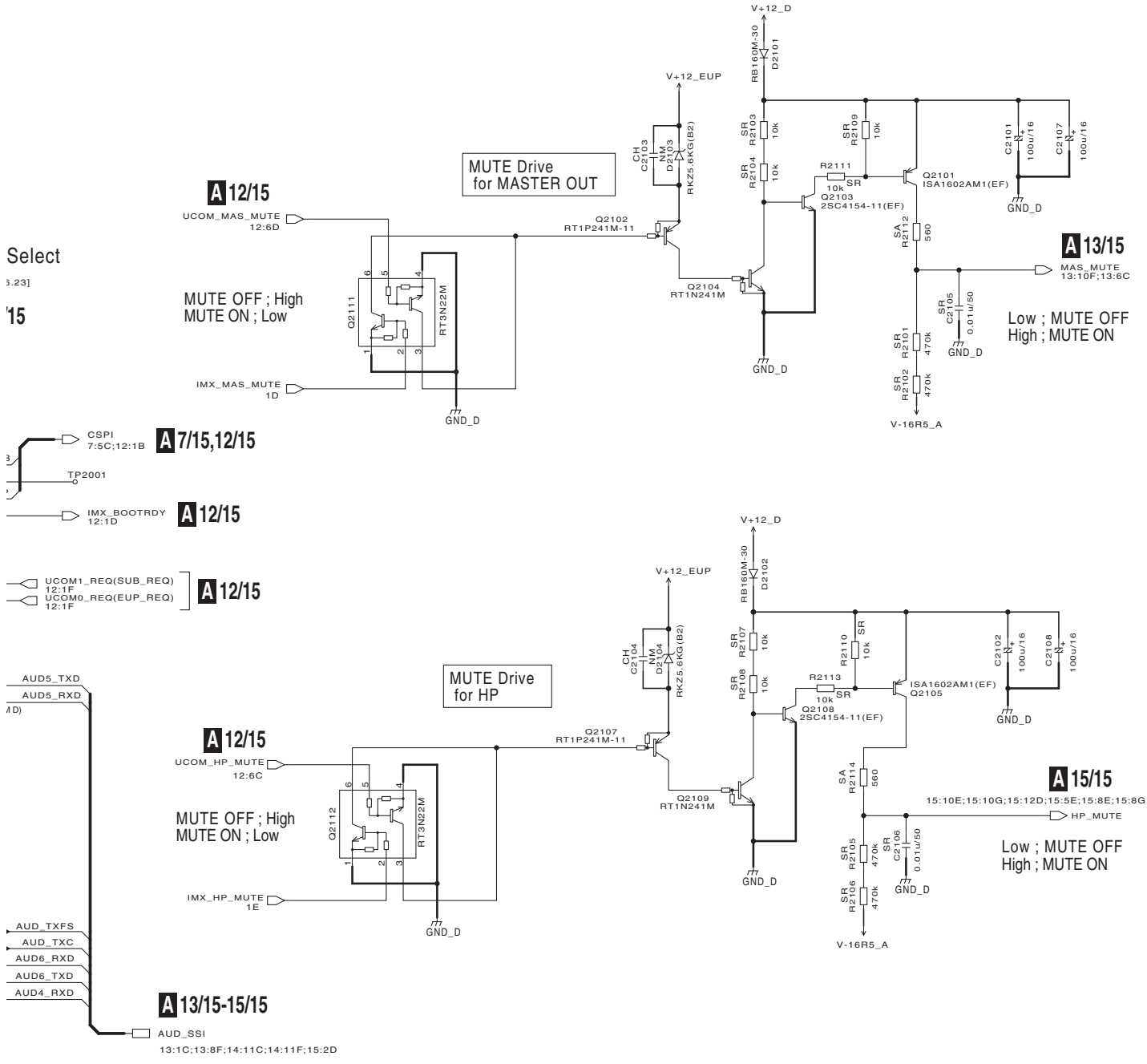
AUD6
Headphone/INPUT2

(CH1 D) : CH1 Digital Signal
(CH2 D) : CH2 Digital Signal
(M D) : MIC Digital Signal
(MA D) : MASTER OUT Digital Signal
(HP D) : HEADPHONE Digital Signal

A 9/15

A 9/15 MAIN ASSY (DWX3313)

AUDIO Controller / Mute Block



NOTES

NM is No Mount — NM Don't show the characteristics

	RAB4CQ***J		
	RS1/16SS***J		CKSSYB***K
SR	RS1/10SR***J	CH	CCSSCH***J
SA	RS1/4SA***J	SR	CKSRYB***K
D	RS1/10SR****D, or RS1/16SS****D	SR CH	CCSRCH***J
F	RS1/10SR****F, or RS1/16SS****F	SQ	CKSQYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

A 9/15

10.10 MAIN ASSY (10/15)

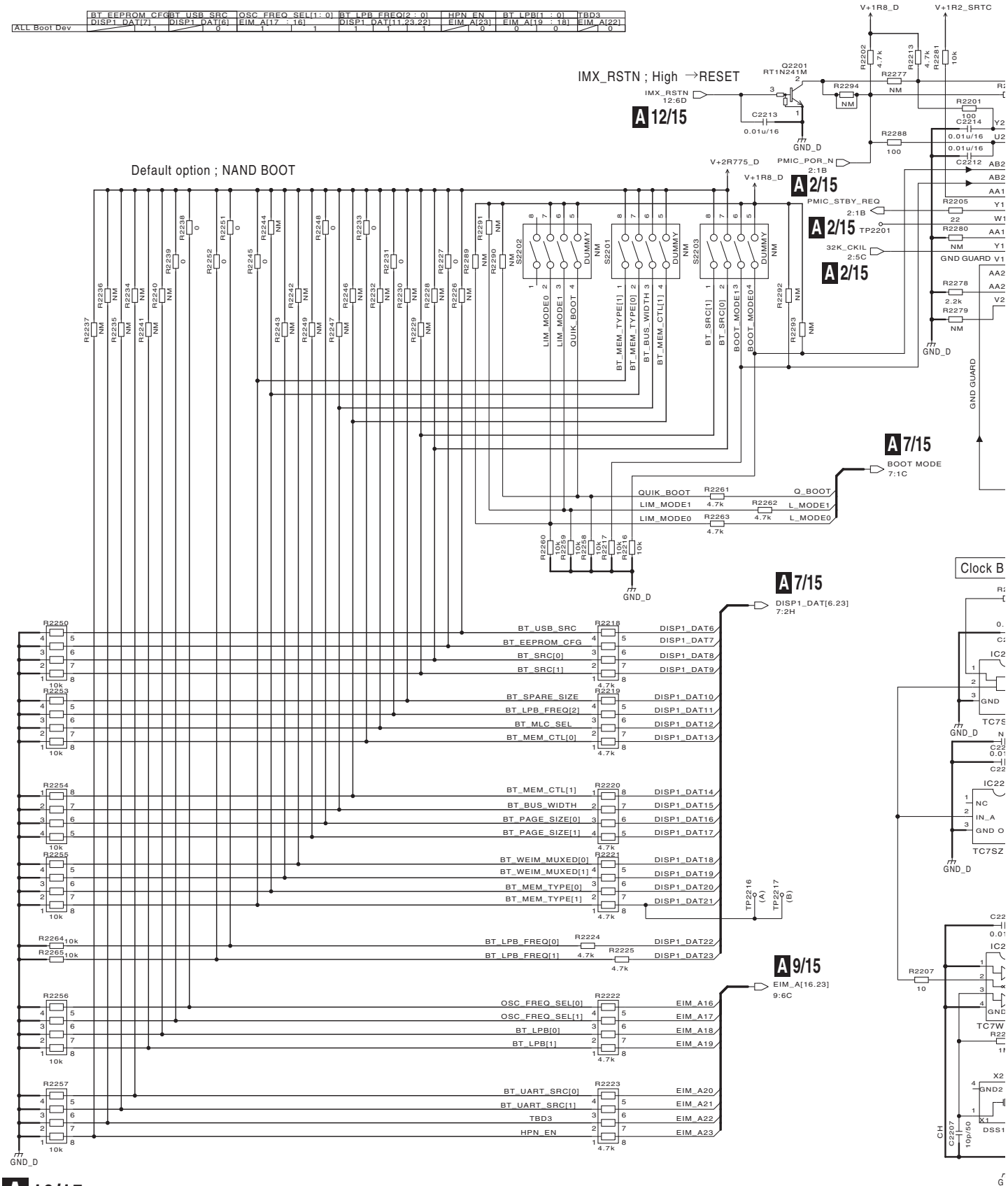
BOOT MODE SELECTION

Boot Device	BOOT_MODE[1: 0]		BT_MEM_CTL[1 : 0] DISP1_DAT[14 : 13]		BT_PAGE_SIZE[1 : 0] DISP1_DAT[17 : 16]		BT_SPARE_SIZE DISP_DAT[10]		BT_BUS_WIDTH[1 : 0] DISP1_DAT[15]		BT_MEM_TYPE[1 : 0] DISP1_DAT[21 : 20]		BT_SRC[1 : 0] DISP1_DAT[9 : 8]		BT_WEIM_MUXED[1: 0] DISP1_DAT[19 : 18]		BT_UART_SRC[1 : 0] EIM_A[21 : 20]		BT_MLC_SEL DISP1_DAT[12]	
NAND Flash	0	0	0	1	0	1		0		1	0		1	0	0	0	0	0		0
SPI NOR Flash	0	0	1	1	0	1		0		1	1		0	1	0	0	0	0		0
MMC2	0	0	1	1	0	1		0		0	0		0	1	0	0	0	0		0
MMC3	0	0	1	1	0	1		0		0	0		0	0	0	0	0	0		0
UART1	1	1	1	1	0	1		0		0	0		0	0	0	0	0	0		0
USB-OTG	1	1	1	1	0	1		0		0	0		0	0	0	0	0	0		0
USB-HUB		1	1	1	0	1		0		0	0		0	0	0	0	0	0		0
SW	●	●	●							●	●	●	●	●						

	BT_EEPROM_CFG DISP1_DAT[7]		BT_USB_SRC DISP1_DAT[6]		OSC_FREQ_SEL[1: 0] EIM_A[17 : 16]		BT_LPB_FREQ[2 : 0] DISP1_DAT[11,23,22]			HPN_EN EIM_A[23]		BT_LPB[1 : 0] EIM_A[19 : 18]		TBD3 EIM_A[22]	
ALL Boot Dev		1		0	1	1	1	1	1		0	0	0		0

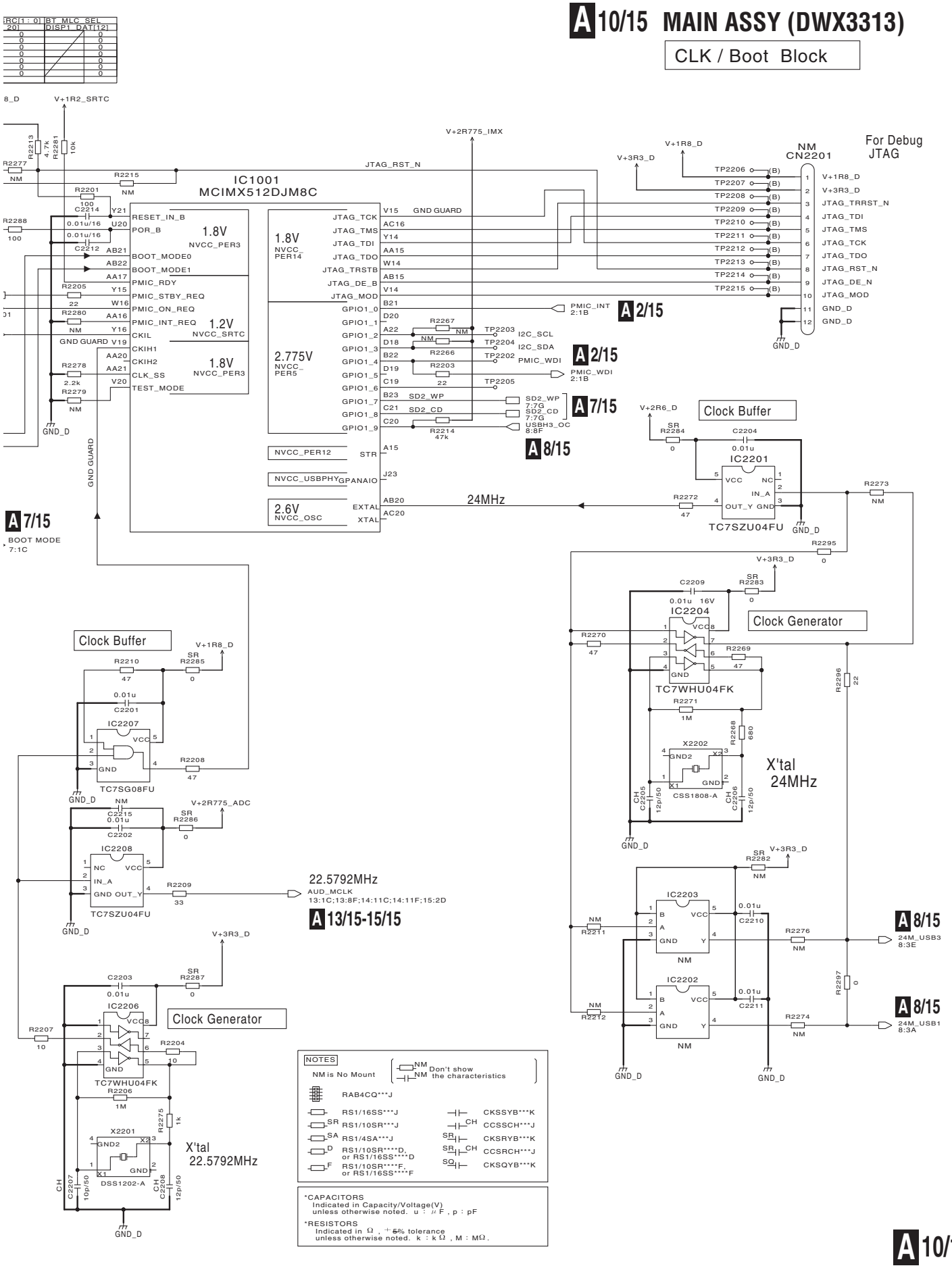
IMX_RSTN ; High →RESET

Default option ; NAND BOOT



A 10/15 MAIN ASSY (DWX3313)

CLK / Boot Block



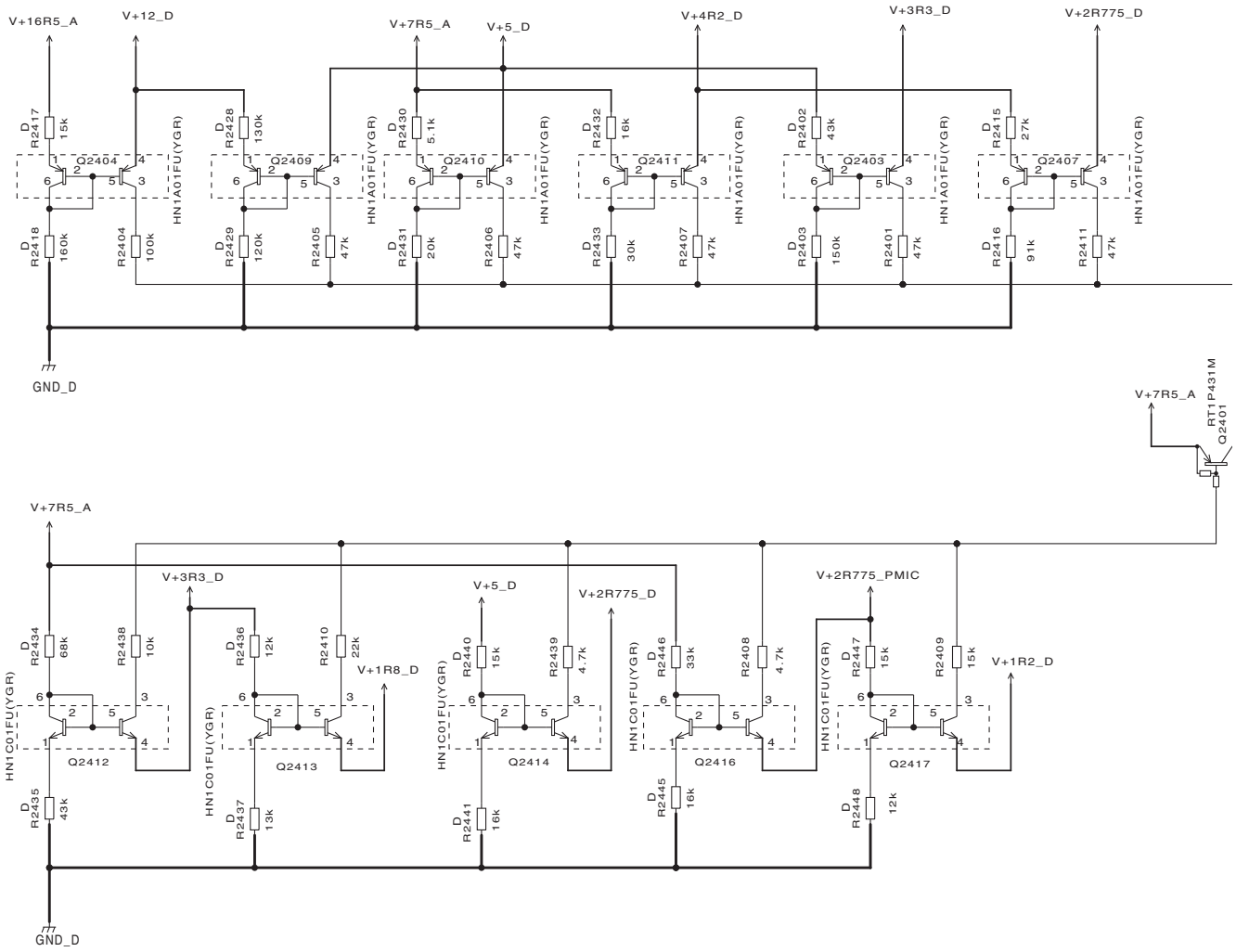
NOTES	
NM is No Mount	NM Don't show the characteristics
RAB4CQ***J	
RS1/16SS***J	CKSSYB***K
SR RS1/10SR***J	CH CCSSCH***J
SA RS1/4SA***J	SB CKSRYB***K
D RS1/10SR****D, or RS1/16SS****D	SB CH CCSRCH***J
F RS1/10SR****F, or RS1/16SS****F	SQ CKSQYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V) unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance unless otherwise noted. k : kΩ , M : MΩ.

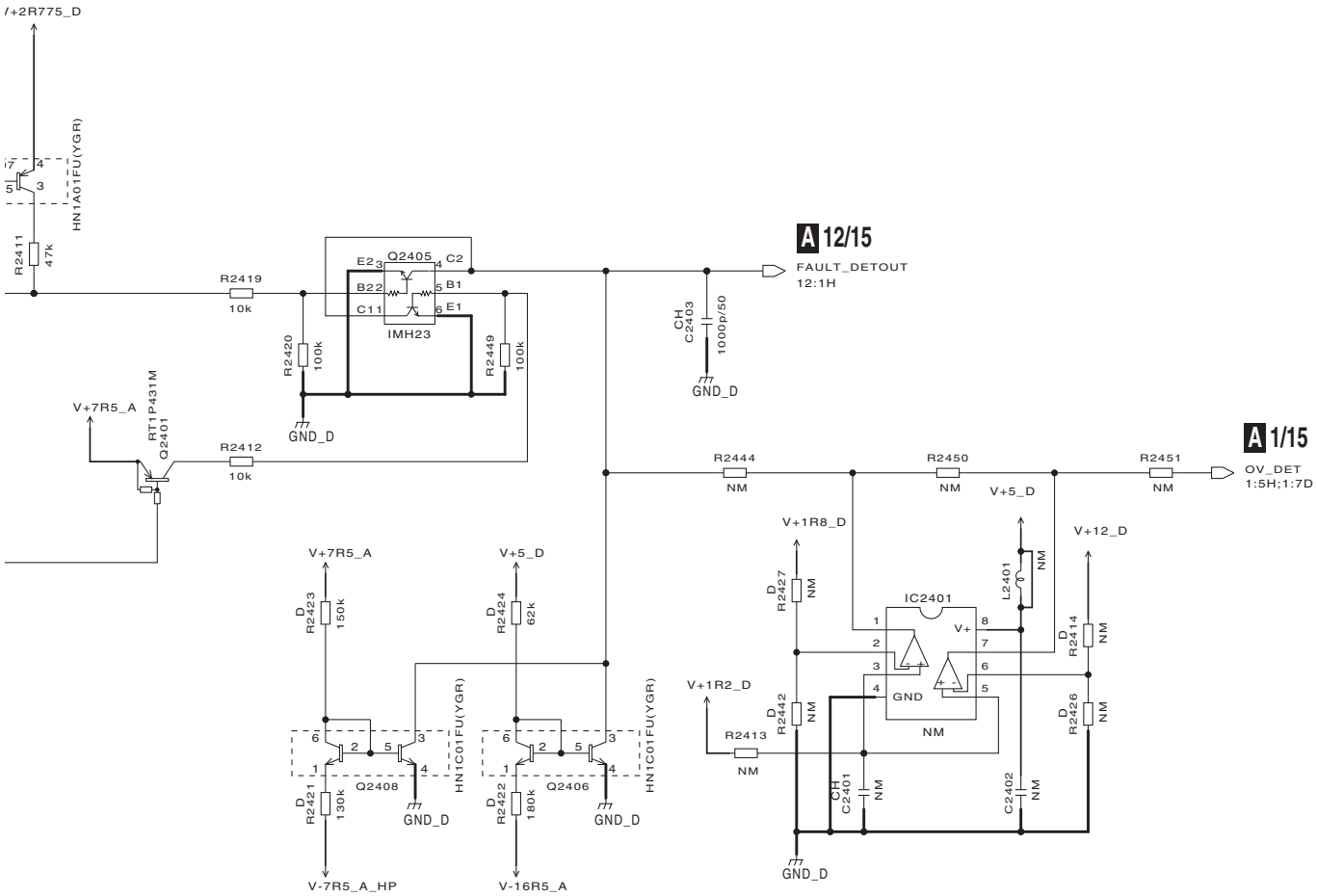
A 10/15

10.11 MAIN ASSY (11/15)



A 11/15 MAIN ASSY (DWX3313)

Abnormal Voltage Detection Block



NOTES

NM is No Mount

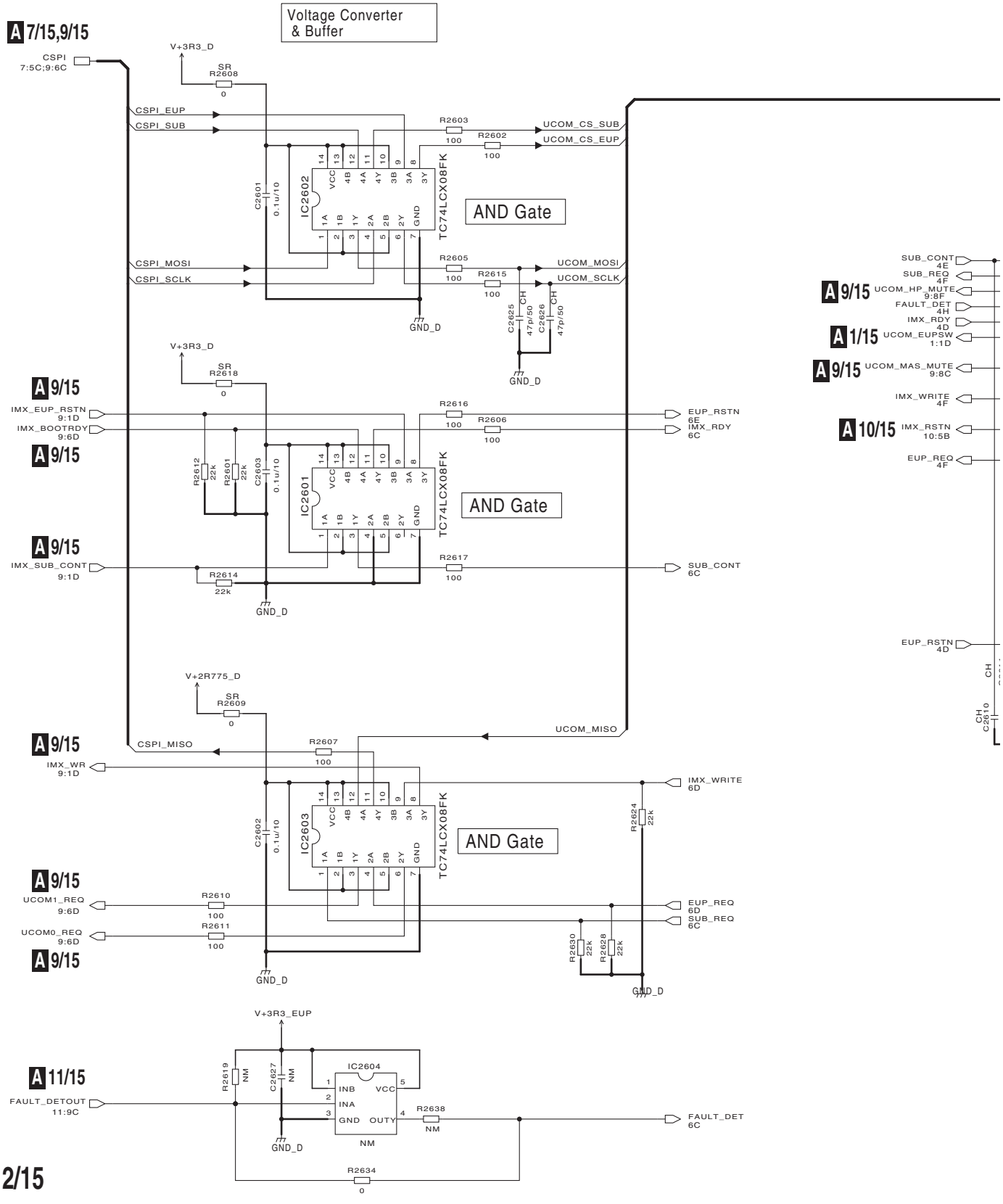
NM Don't show the characteristics

RAB4CQ***J	
RS1/16SS***J	CKSSYB***K
SR RS1/10SR***J	CH CCSSCH***J
SA RS1/4SA***J	SR CKSRYB***K
D RS1/10SR****D, or RS1/16SS****D	SR CH CCSRCH***J
F RS1/10SR****F, or RS1/16SS****F	SQ CKSQYB***K

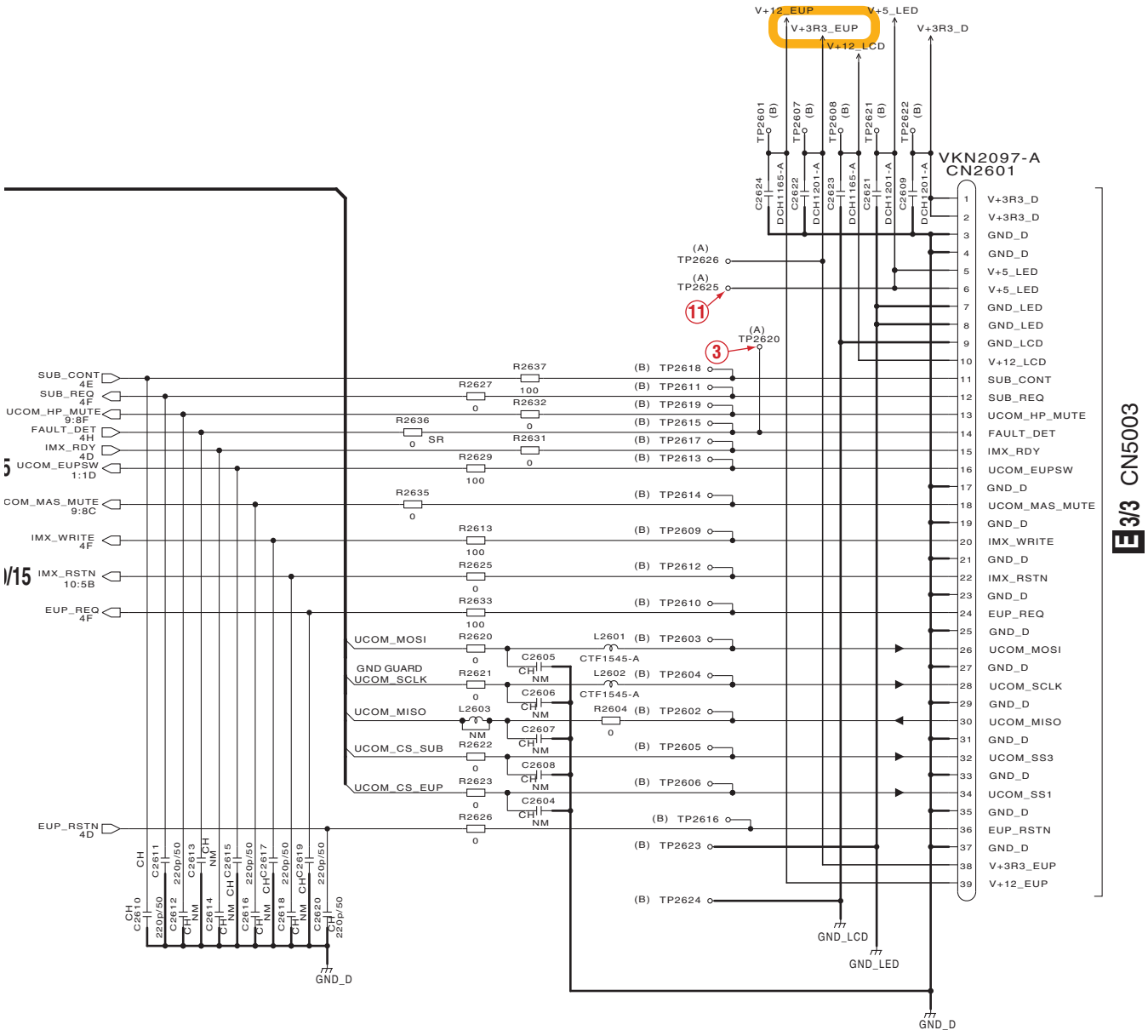
*CAPACITORS
Indicated in Capacity/Voltage(V) unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance unless otherwise noted. k : kΩ , M : MΩ.

10.12 MAIN ASSY (12/15)



UCOM I/F Block



NOTES

NM is No Mount — NM Don't show the characteristics

RAB4CQ***J

RS1/16SS***J
SR RS1/10SR***J
SA RS1/4SA***J
D RS1/10SR****D, or RS1/16SS****D
F RS1/10SR****F, or RS1/16SS****F

CKSSYB***K
CH CCSSCH***J
SR CKSRYB***K
SR CH CCSRCH***J
SQ CKSQYB***K

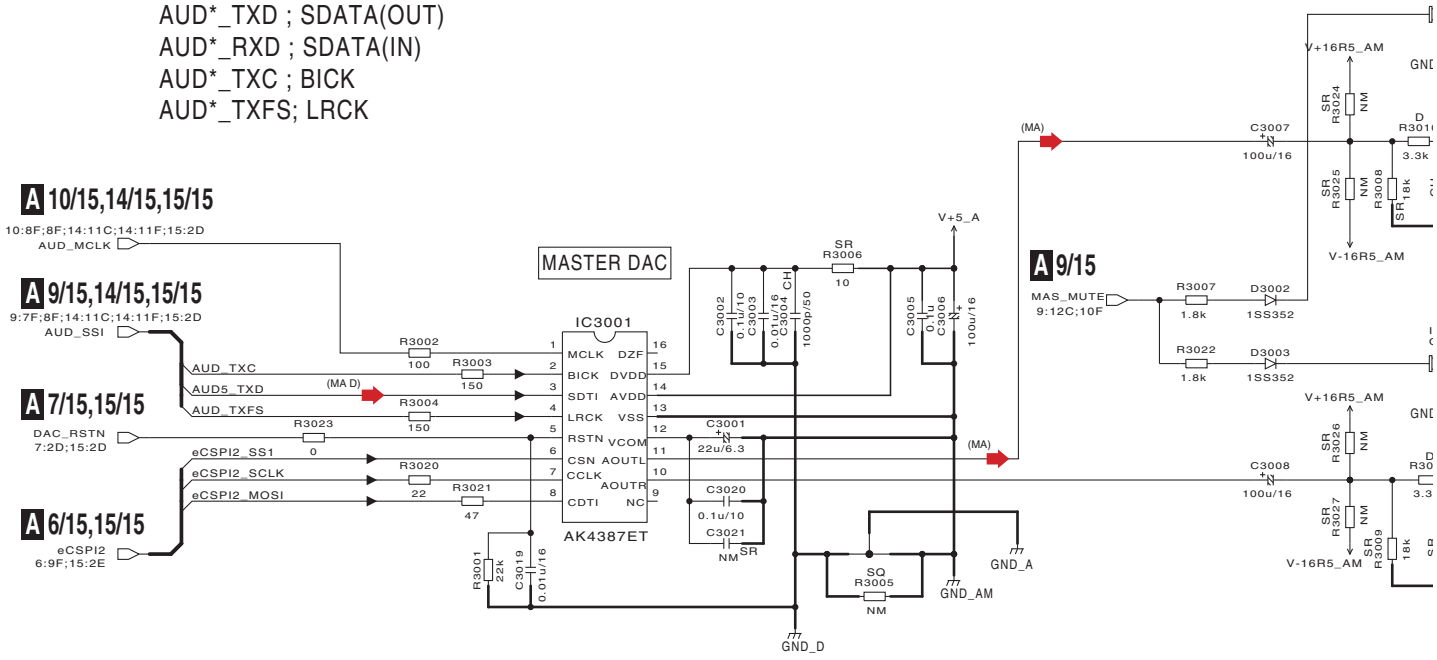
*CAPACITORS
Indicated in Capacity/Voltage(V) unless otherwise noted. u : μF , p : pF

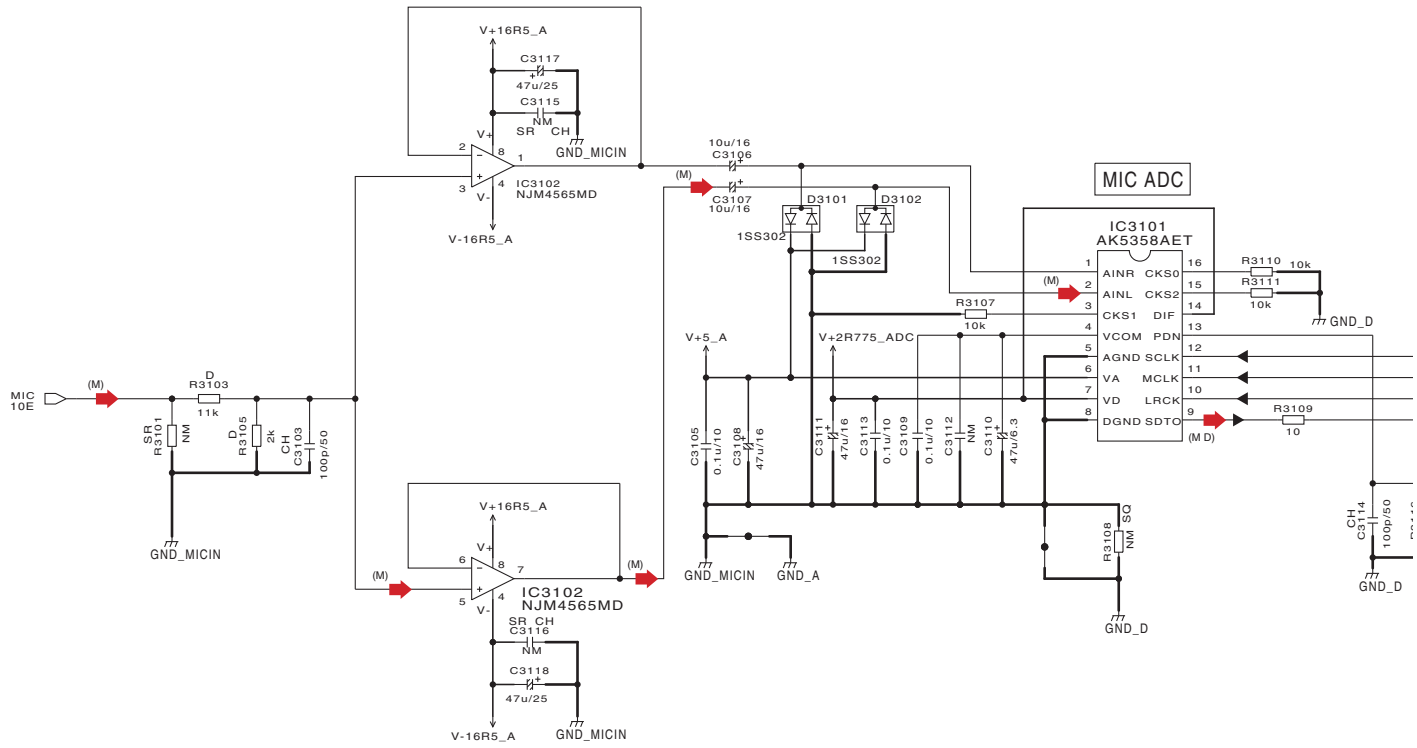
*RESISTORS
Indicated in Ω , ±5% tolerance unless otherwise noted. k : kΩ , M : MΩ.

10.13 MAIN ASSY (13/15)

LRCK;44.1kHz (fs)
MCLK;22.5792MHz (512fs)
BICK;2.8224MHz (64fs)

AUD*_TXD ; SDATA(OUT)
AUD*_RXD ; SDATA(IN)
AUD*_TXC ; BICK
AUD*_TXFS; LRCK

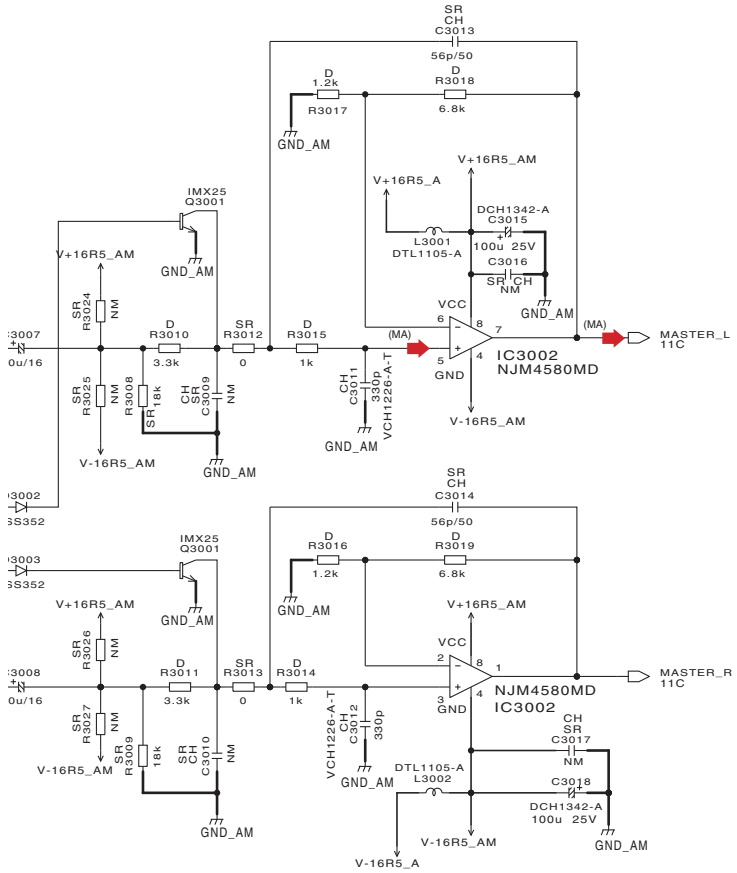


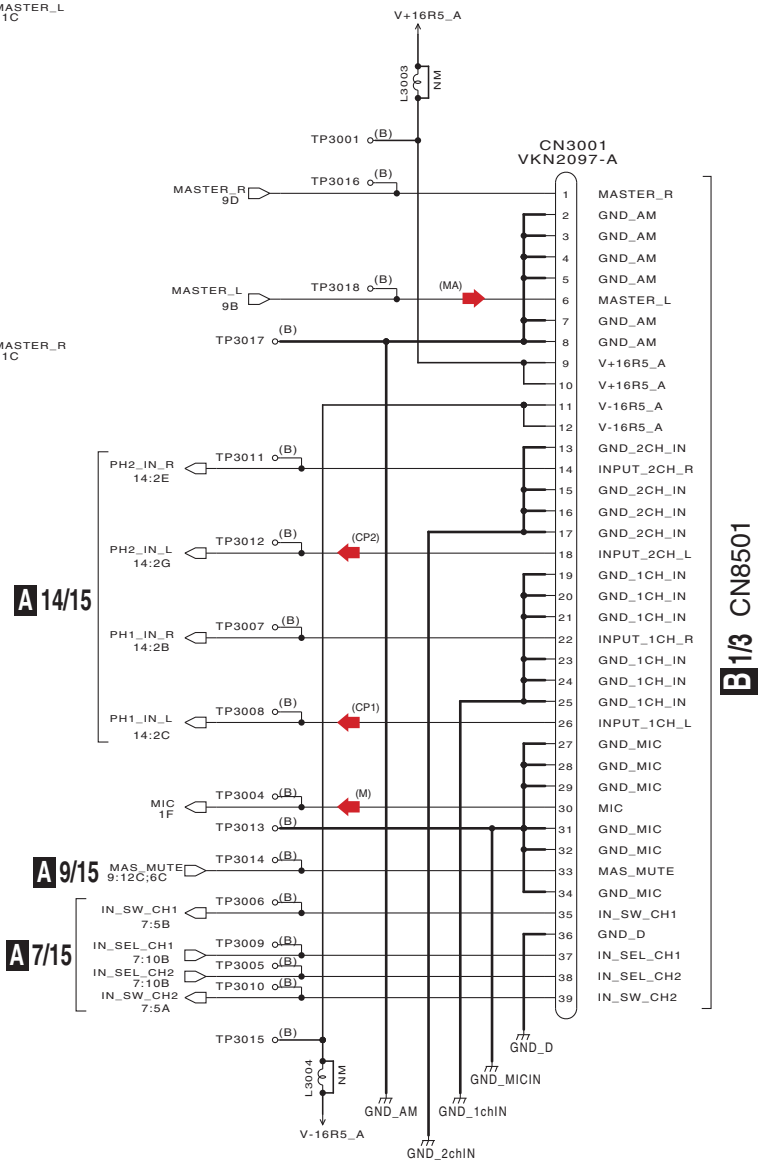


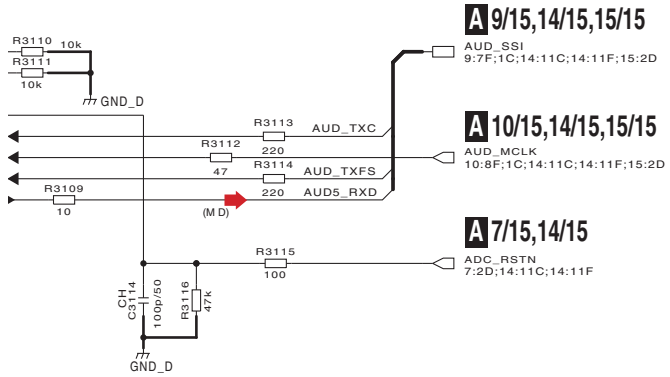
A 13/15

A 13/15 MAIN ASSY (DWX3313)

MASTER / MIC Block







NOTES

NM is No Mount

NM NM Don't show the characteristics

RS1/16SS***J	CKSSYB***K
RS1/10SR***J	CCSSCH***J
RS1/4SA***J	CKSRYB***K
RS1/10SR****D, or RS1/16SS****D	CCSRCH***J
RS1/10SR****F, or RS1/16SS****F	CKSQYB***K
	CEVW***M

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF, p : pF

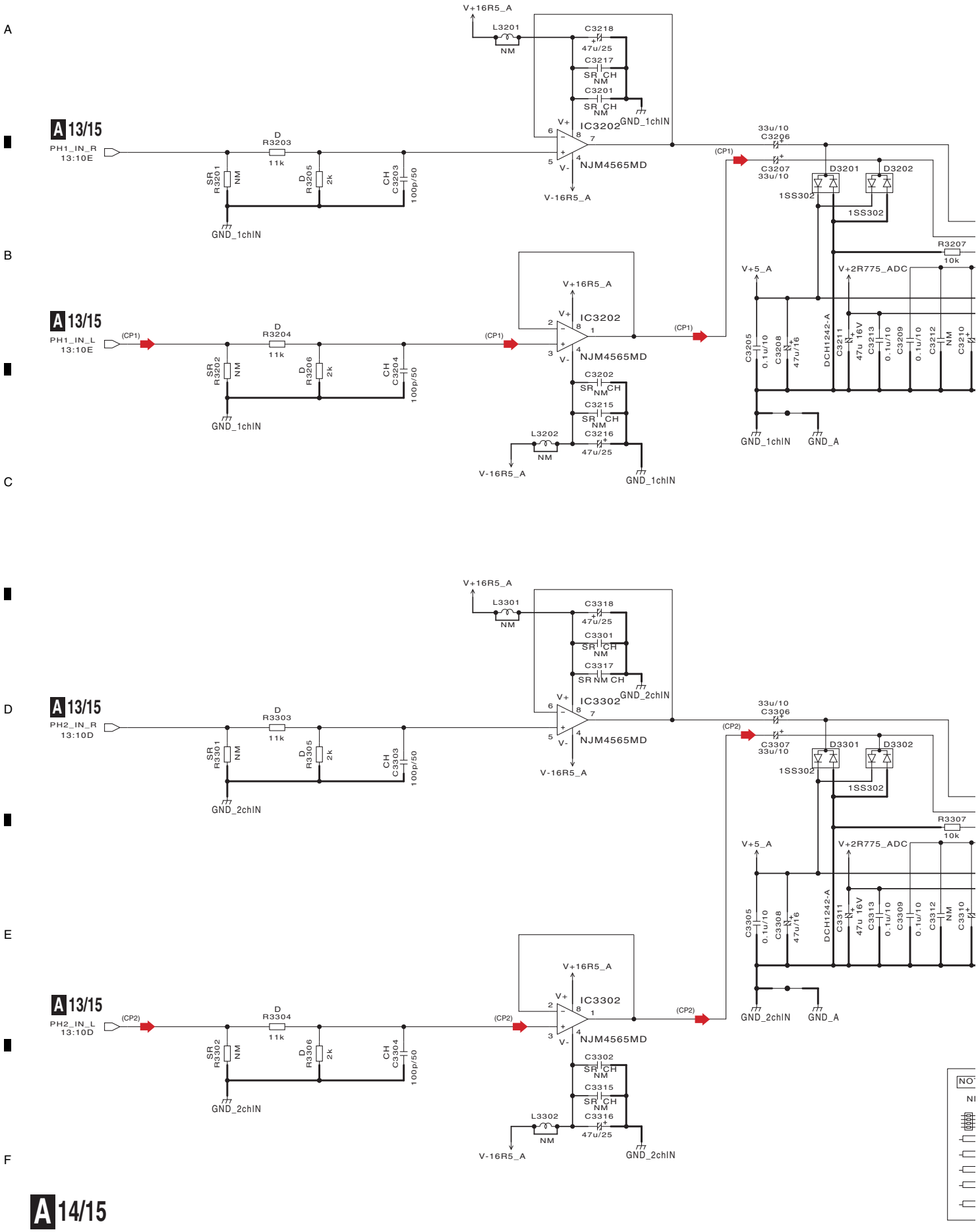
*RESISTORS
Indicated in Ω, ±5% tolerance
unless otherwise noted. k : kΩ, M : MΩ.

(MA) : MASTER OUT Signal (L ch)
(CP1) : CH1 CD/PHONO Signal (L ch)
(CP2) : CH2 CD/PHONO Signal (L ch)
(M) : MIC Signal
(M D) : MIC Digital Signal
(MA D) : MASTER OUT Digital Signal

A 13/15

XDJ-AERO

10.14 MAIN ASSY (14/15)

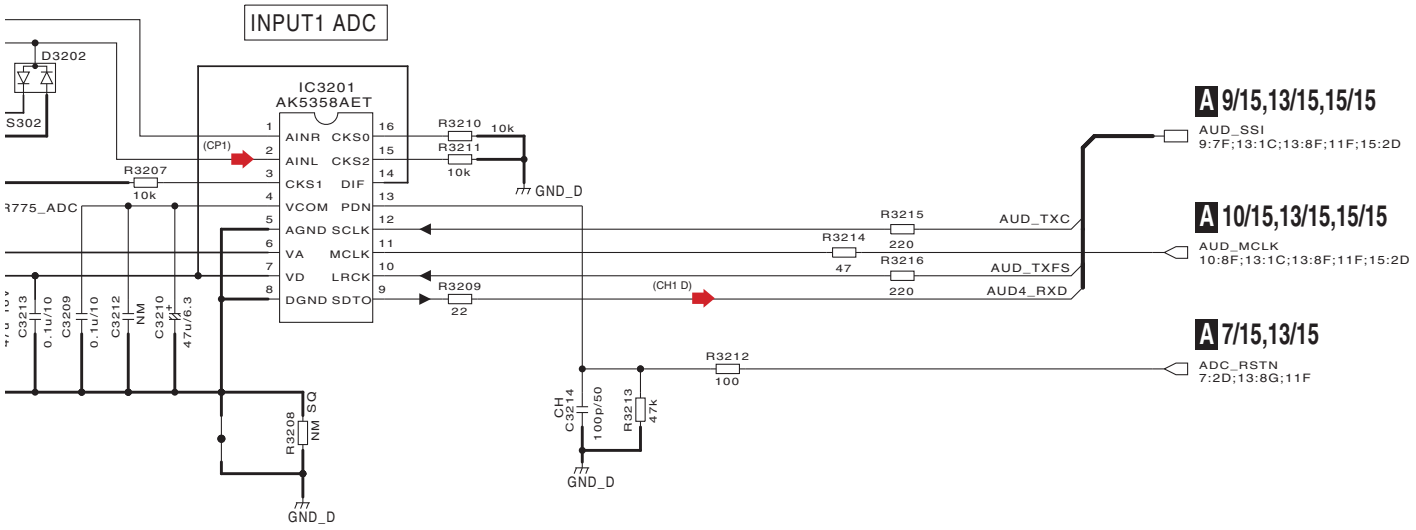


A 14/15

A 14/15 MAIN ASSY (DWX3313)

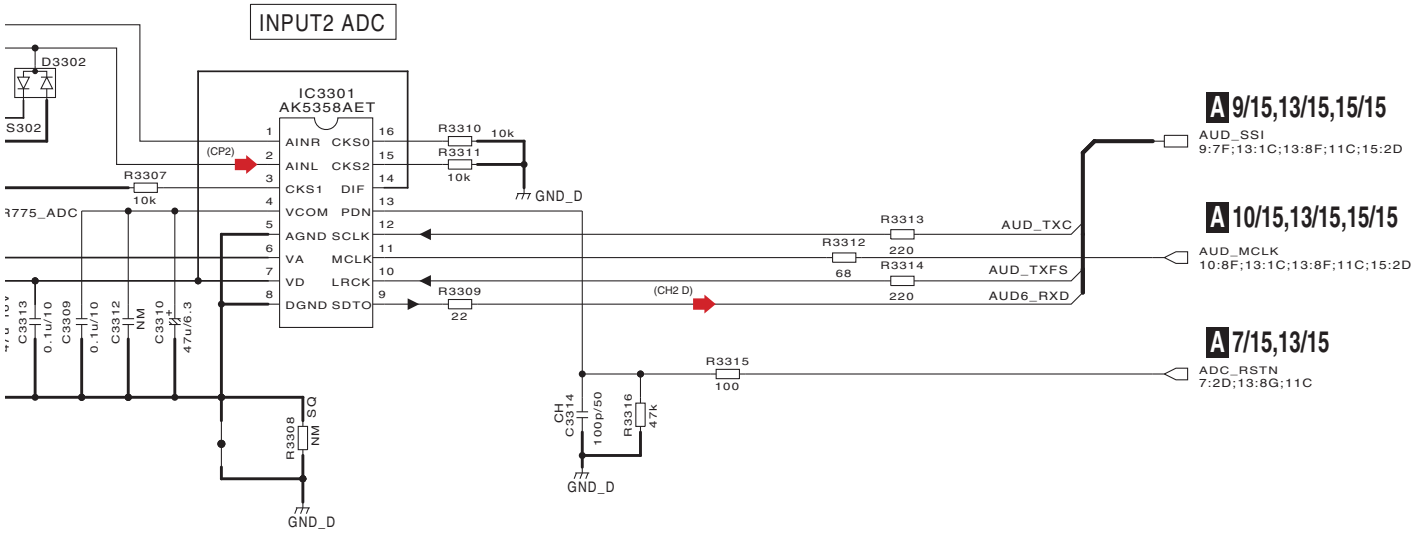
INPUT1 / INPUT2 Block

INPUT1 ADC



(CP1) : CH1 CD/PHONO Signal (L ch)
(CP2) : CH2 CD/PHONO Signal (L ch)
(CH1 D) : CH1 Digital Signal
(CH2 D) : CH2 Digital Signal

INPUT2 ADC



NOTES
NM is No Mount
NM Don't show the characteristics

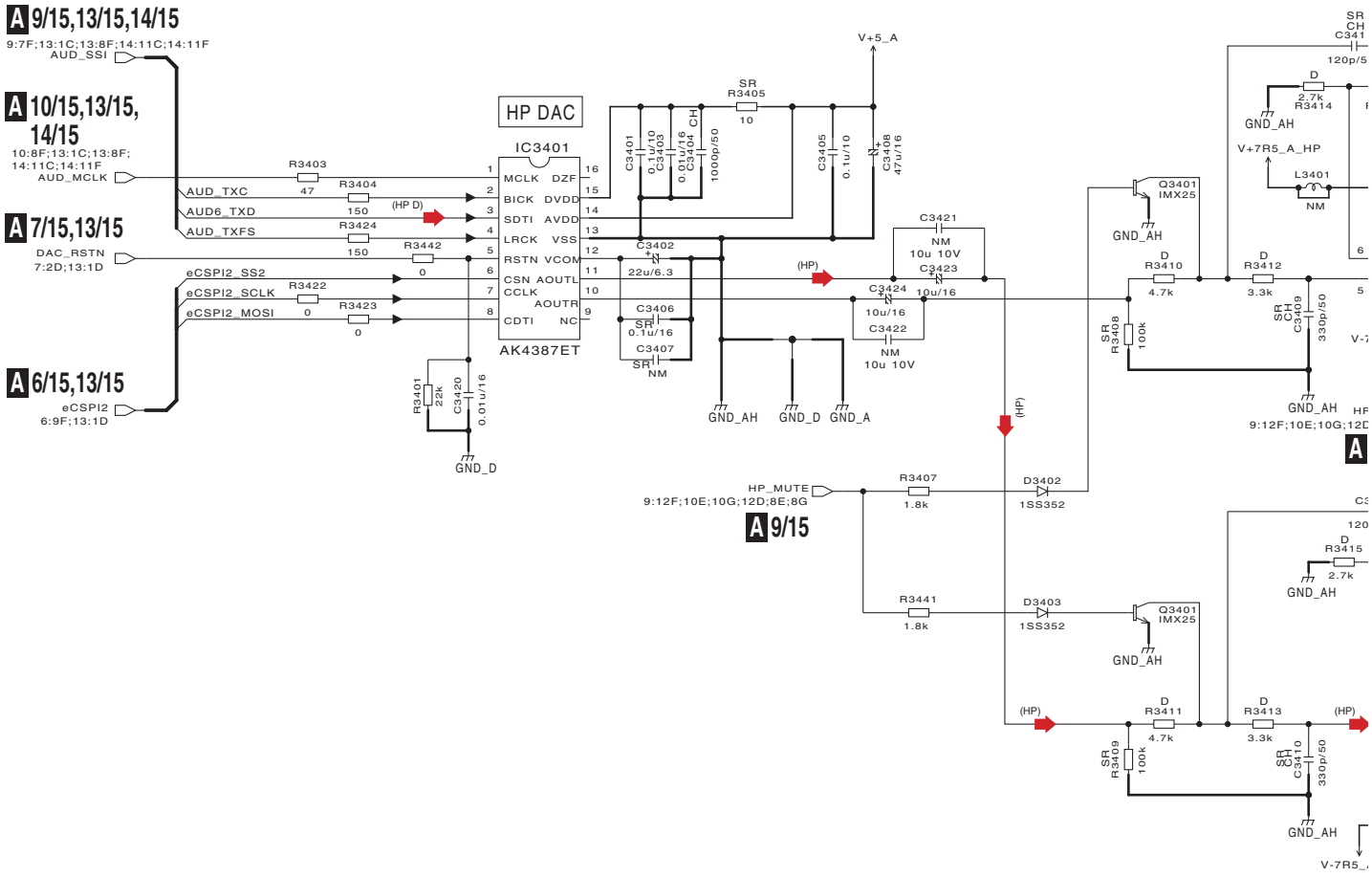
RAB4CQ***J
RS1/16SS***J
SR RS1/10SR***J
SA RS1/4SA***J
D RS1/10SR****D, or RS1/16SS****D
F RS1/10SR****F, or RS1/16SS****F
CKSSYB***K
CH CCSSCH***J
SR CKSRYB***K
SR CH CCSRCH***J
SQ CKSQYB***K
+ CEVW***M

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

A 14/15

10.15 MAIN ASSY (15/15)



NOTES

NM is No Mount

NM Don't show the characteristics

RAB4CQ***J

RS1/16SS***J

SR RS1/10SR***J

SA RS1/4SA***J

D RS1/10SR****D, or RS1/16SS****D

F RS1/10SR****F, or RS1/16SS****F

CKSSYB***K

CH CCSSCH***J

SR CKSRYB***K

SR CH CCSRCH***J

SQ CKSQYB***K

+N CEVW***M

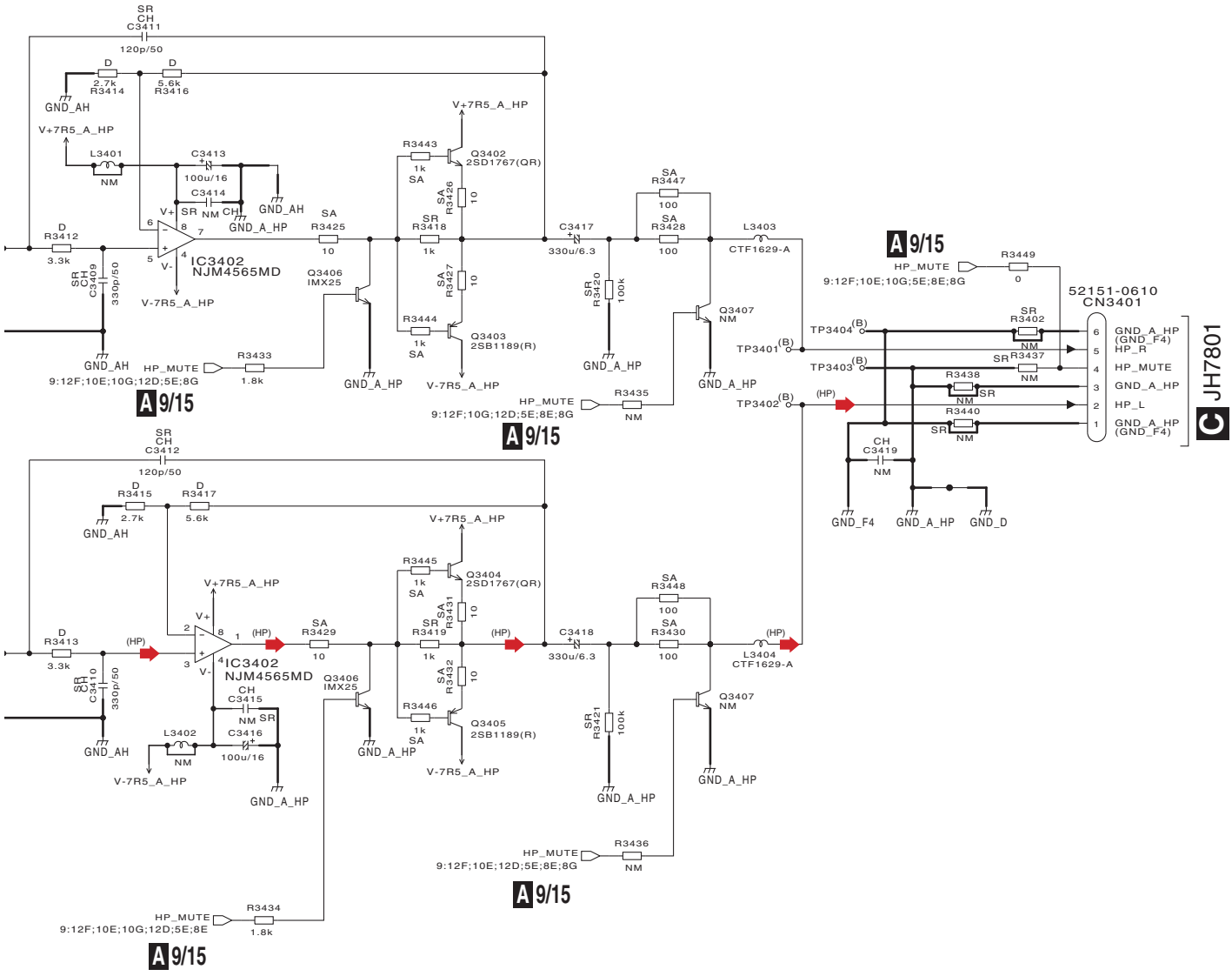
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

A 15/15

A 15/15 MAIN ASSY (DWX3313)

HP Block



10.16 JACB ASSY (1/3)

NOTES

NM is No Mount

NM / NM don't show a characteristic

RS1/10SR***J

D RS1/10SR****D

CKSRYB***K

CH CCSRCH***J

CEAL***M**

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF, p : pF

*RESISTORS
Indicated in Ω, ±5% tolerance
unless otherwise noted. k : kΩ, M : MΩ.

(MA) : MASTER OUT Signal (L ch)

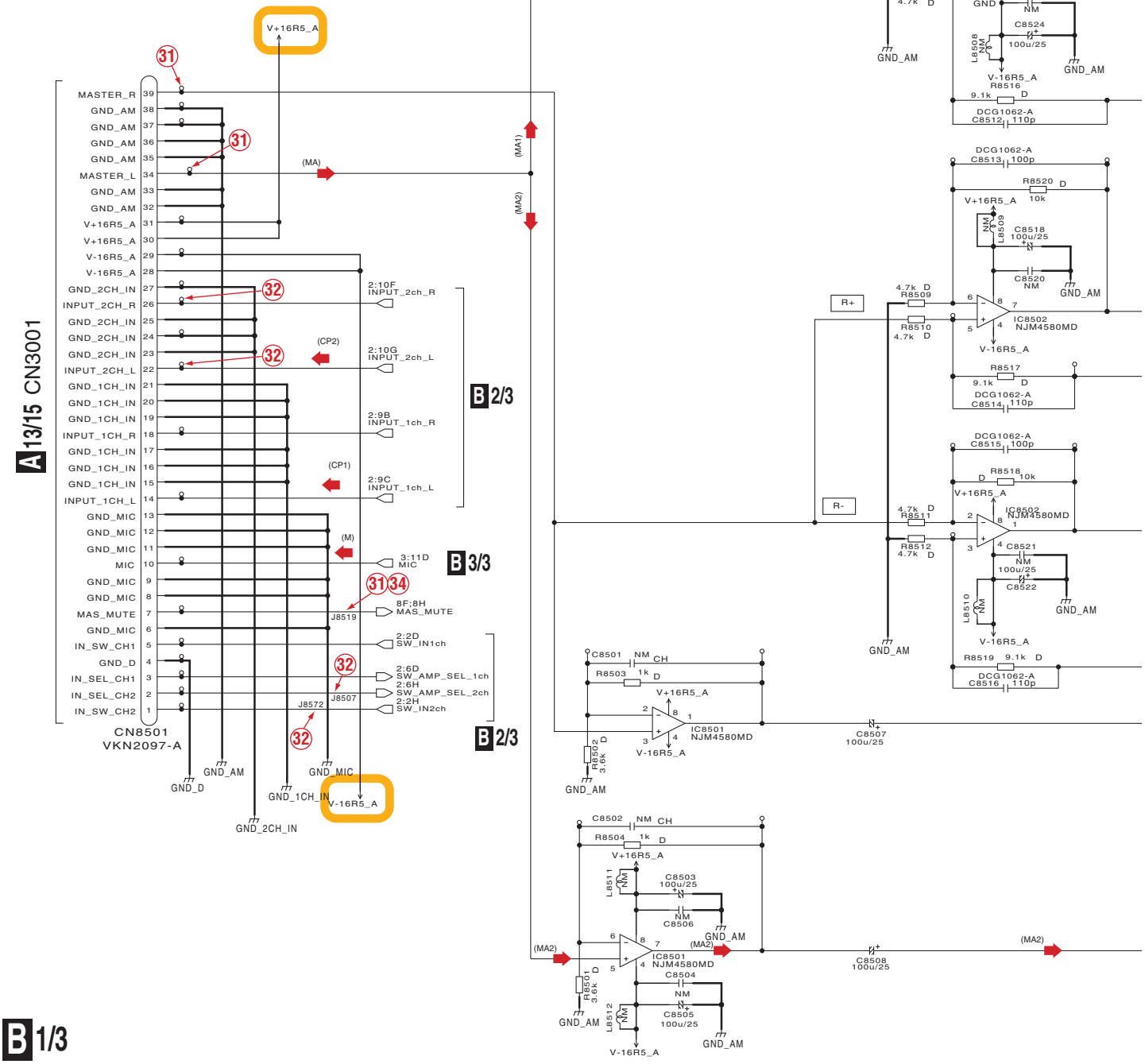
(MA1) : MASTER1 OUT Signal (L ch)

(MA2) : MASTER2 OUT Signal (L ch)

(CP1) : CH1 CD/PHONO Signal (L ch)

(CP2) : CH2 CD/PHONO Signal (L ch)

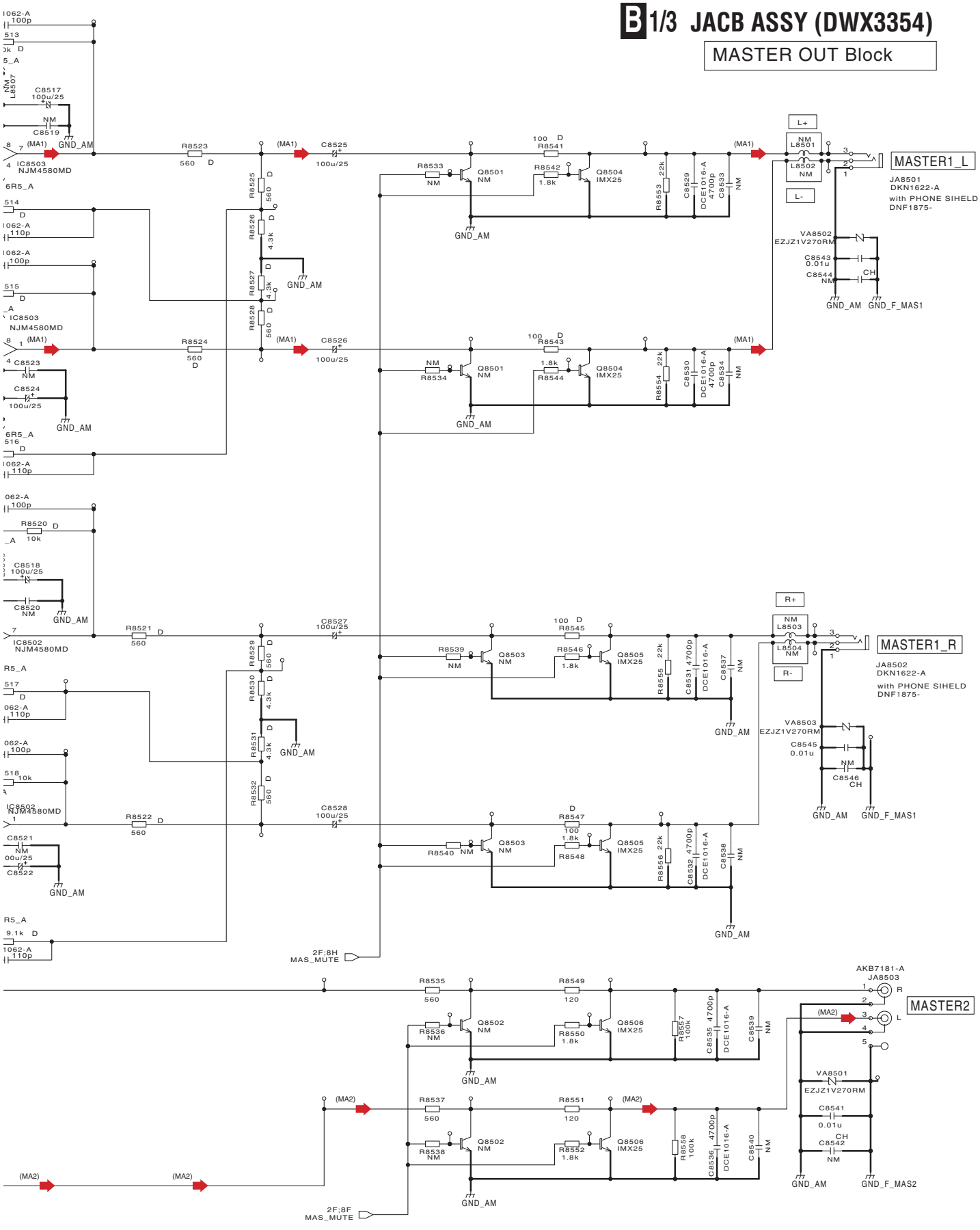
(M) : MIC Signal



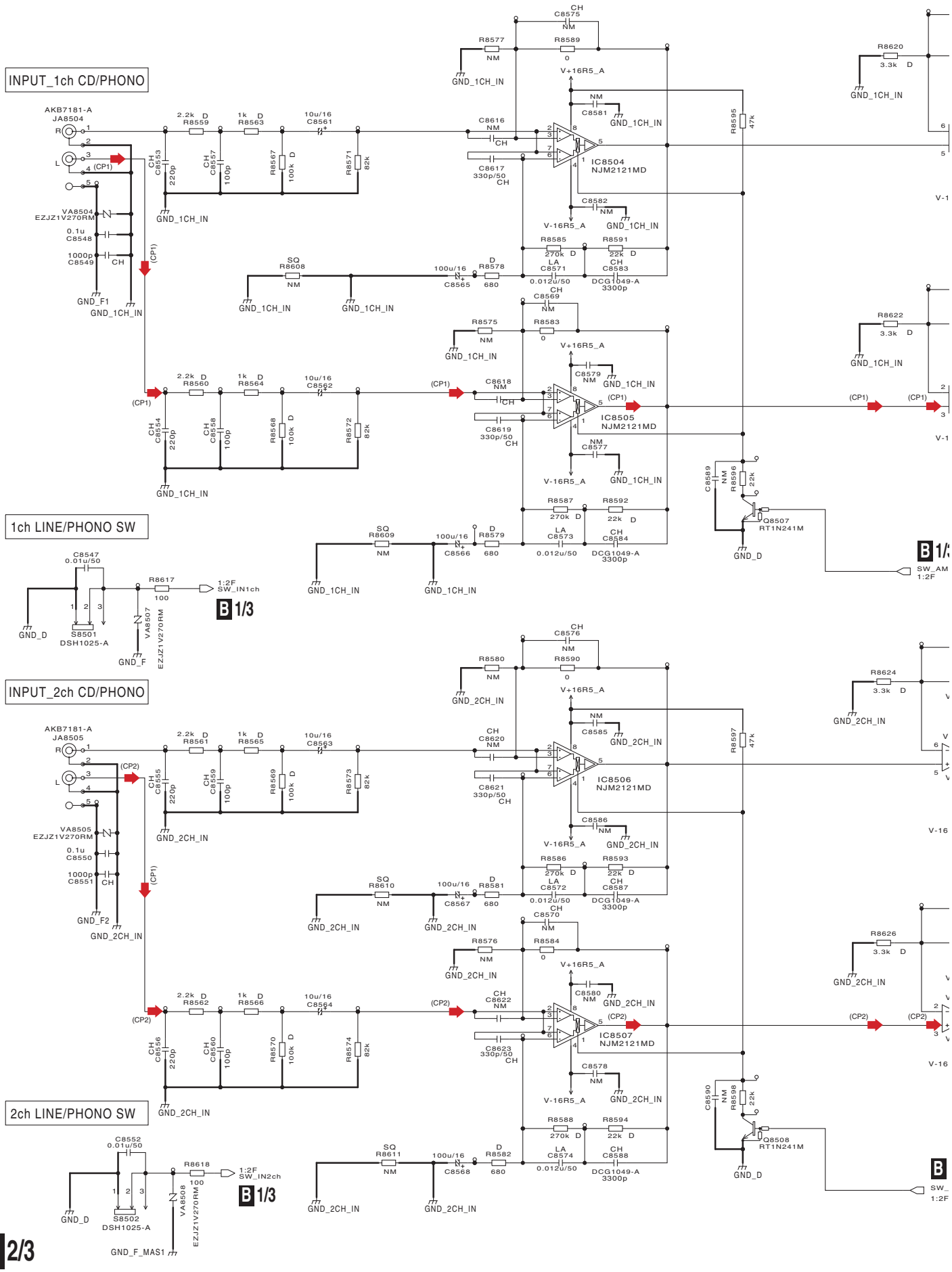
B 1/3

B 1/3 JACB ASSY (DWX3354)

MASTER OUT Block

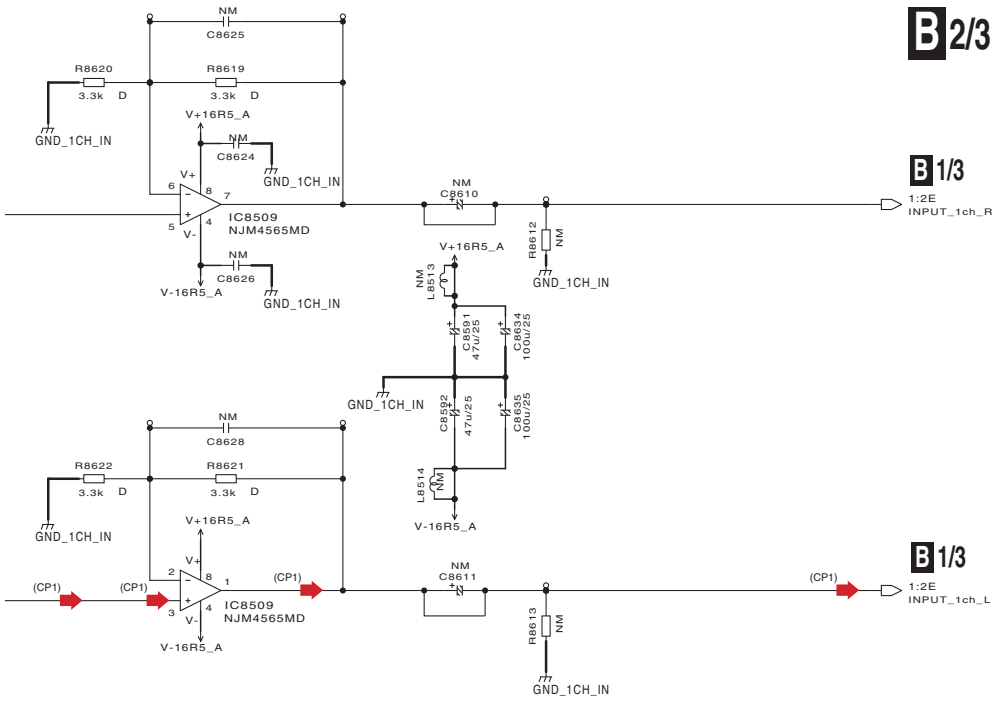


10.17 JACB ASSY (2/3)



B 2/3 JACB ASSY (DWX3354)

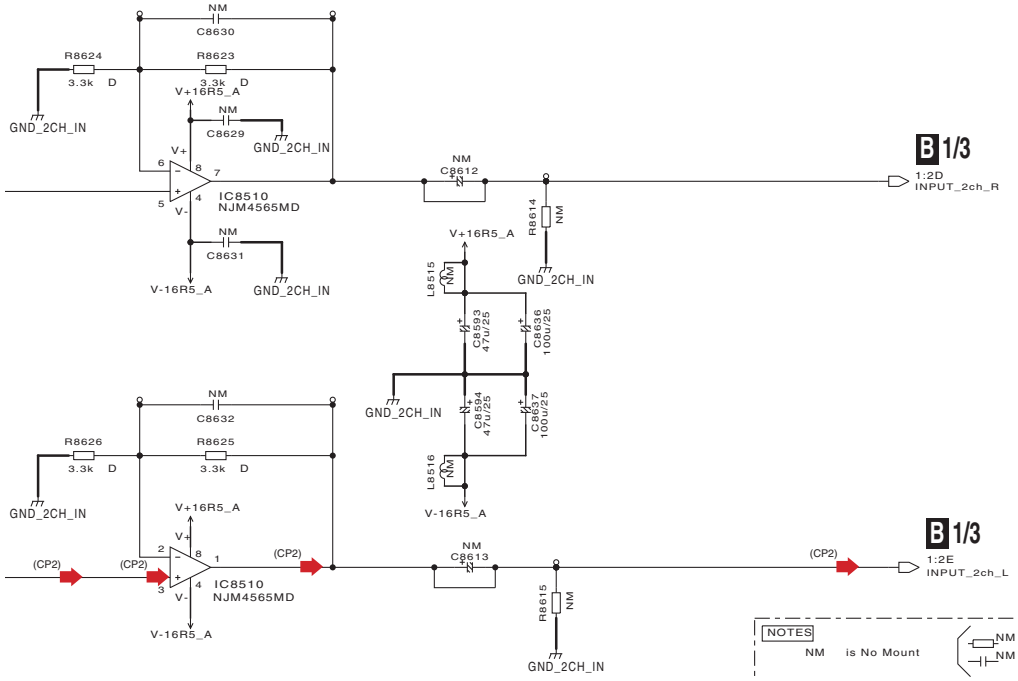
LINE/PHONO IN Block



(CP1) : CH1 CD/PHONO Signal (L ch)

(CP2) : CH2 CD/PHONO Signal (L ch)

B 1/3 SW_AMP_SEL_1ch 1:2F



B 1/3 SW_AMP_SEL_2ch 1:2F

NOTES

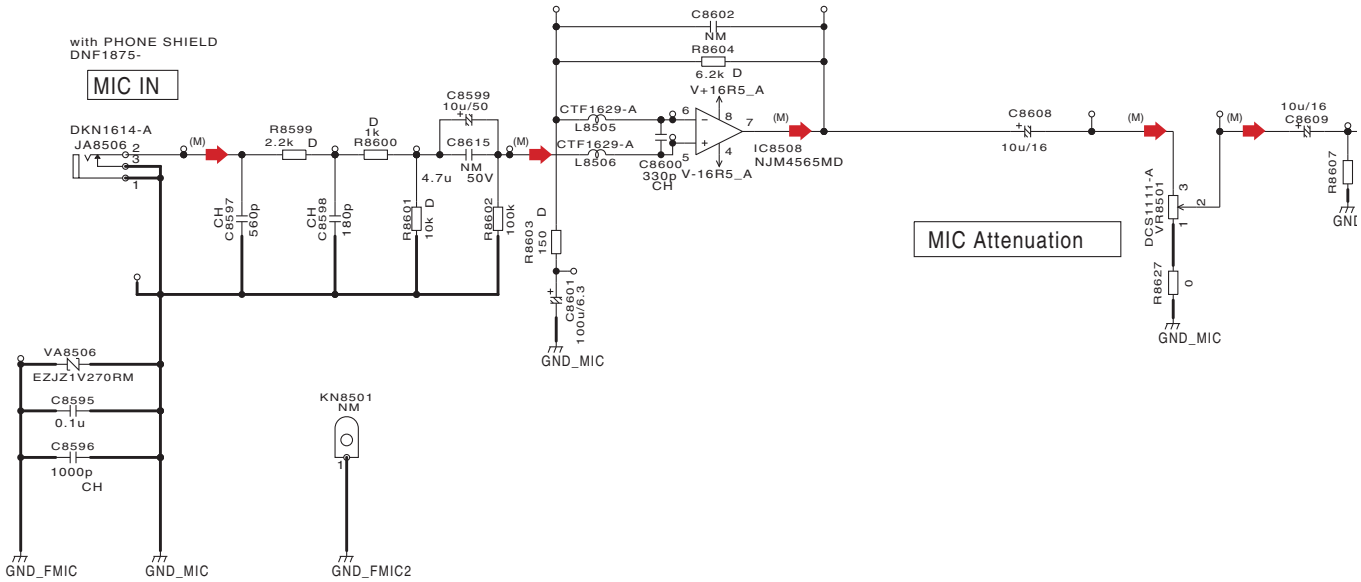
NM is No Mount — NM NM don't show a characteristic

D RS1/10SR***J
D RS1/10SR****D
SQ RS1/8SQ***J
CKSRYB***K
CH CCSRCH***J
N CEAL***M**
LA CFTLA***J**

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

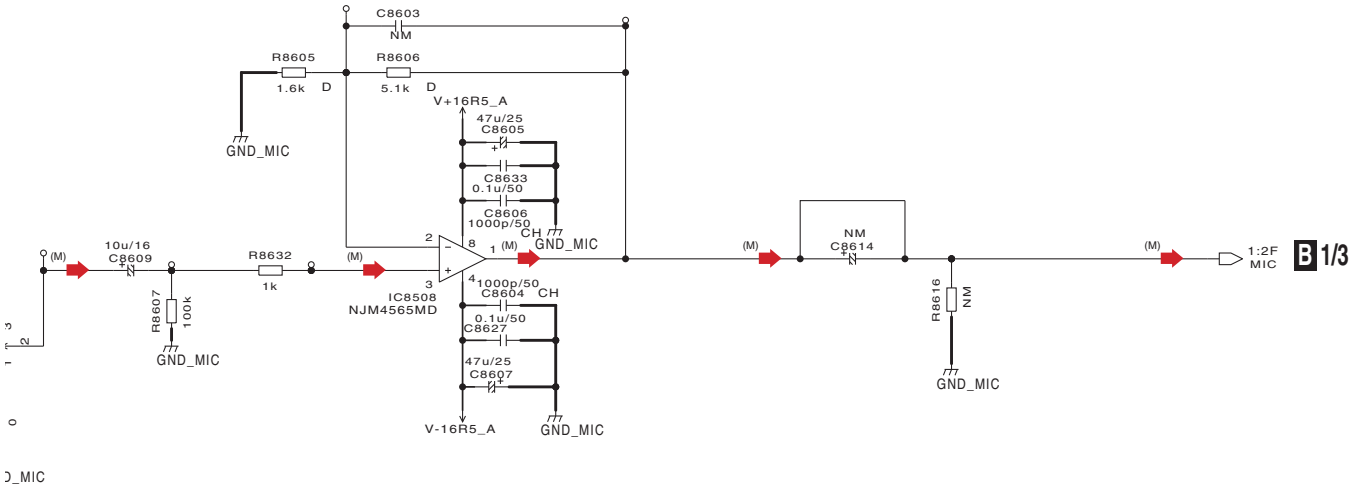
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

10.18 JACB ASSY (3/3)



B 3/3 JACB ASSY (DWX3354)

MIC IN Block



(M) : MIC Signal

NOTES

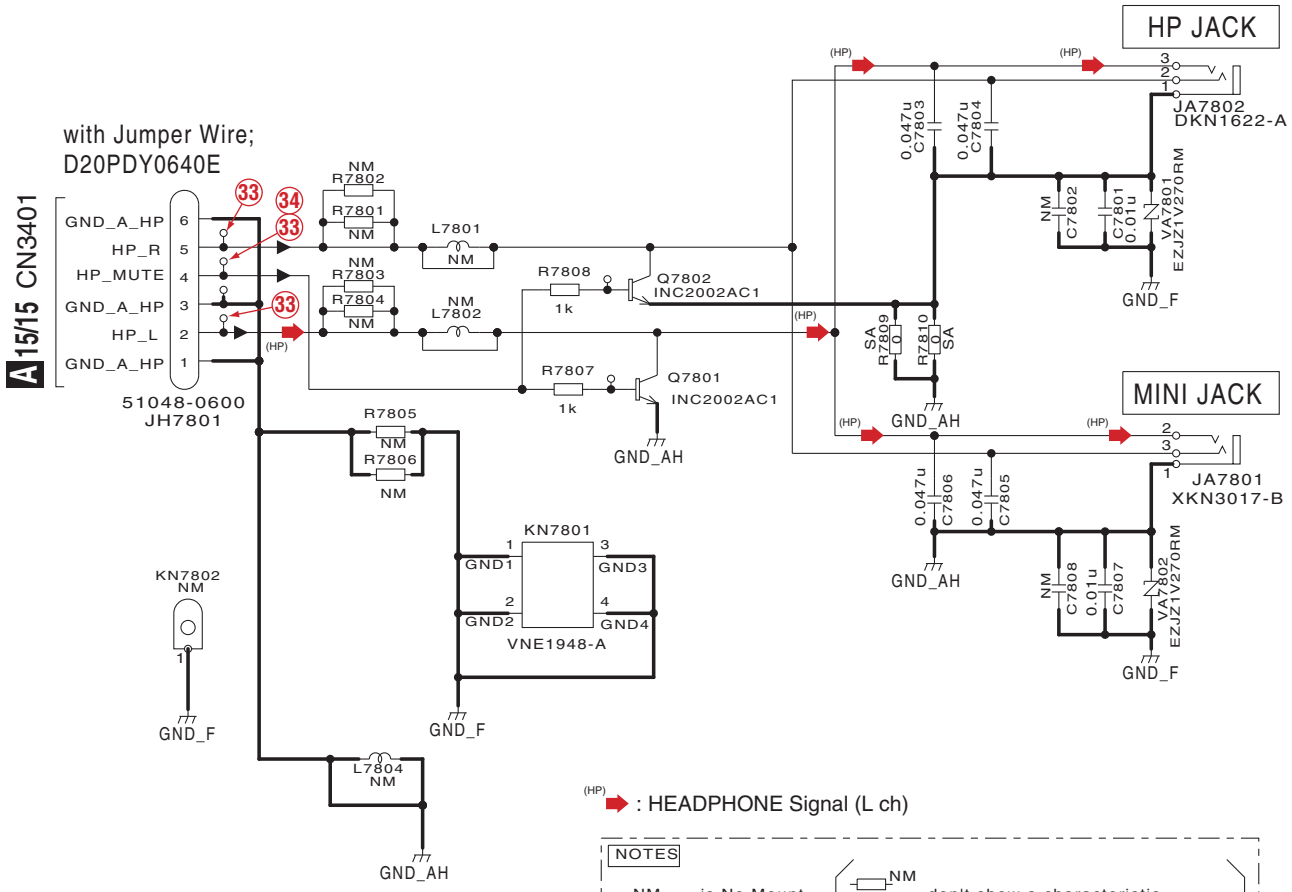
NM is No Mount — NM / NM don't show a characteristic

- RS1/10SR***J
- D RS1/10SR****D
- CKSRYB***K
- CH CCSRCH***J
- CEAL***M**

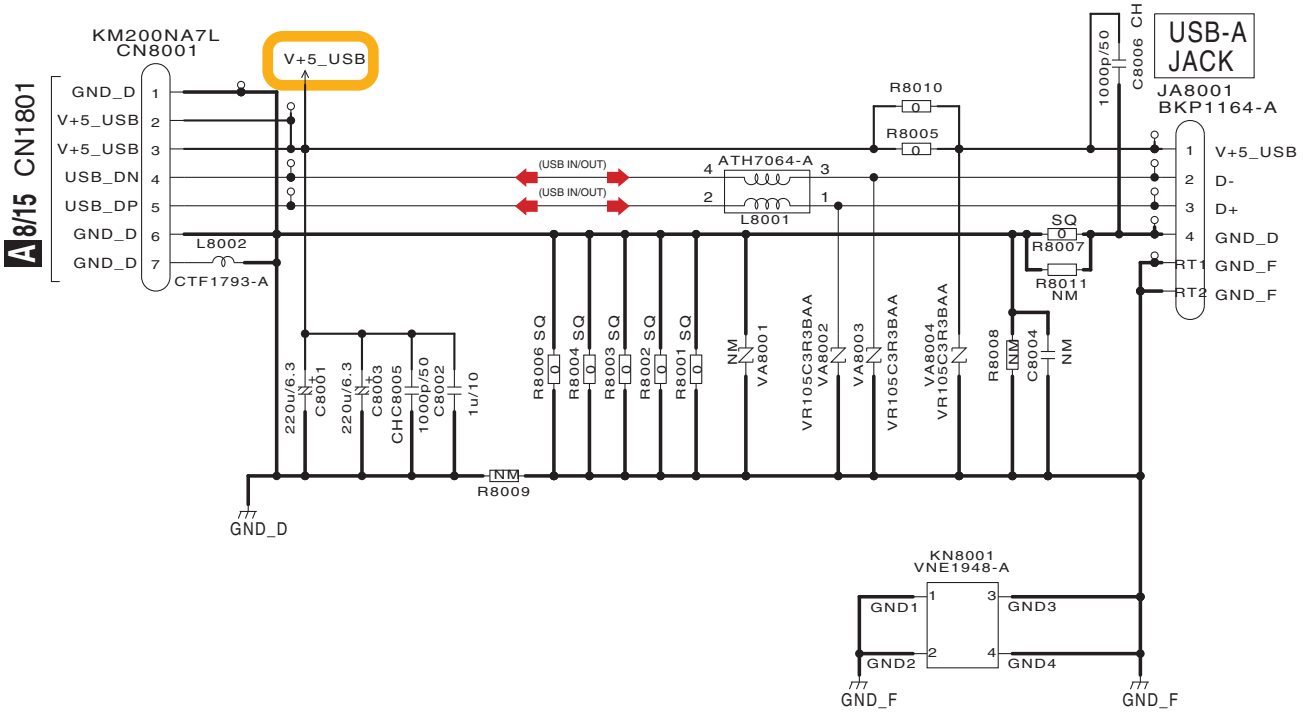
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

C HPJK ASSY (DWX3355)



D USBB ASSY (DWX3374)



(USB IN/OUT) : USB IN/OUT Signal

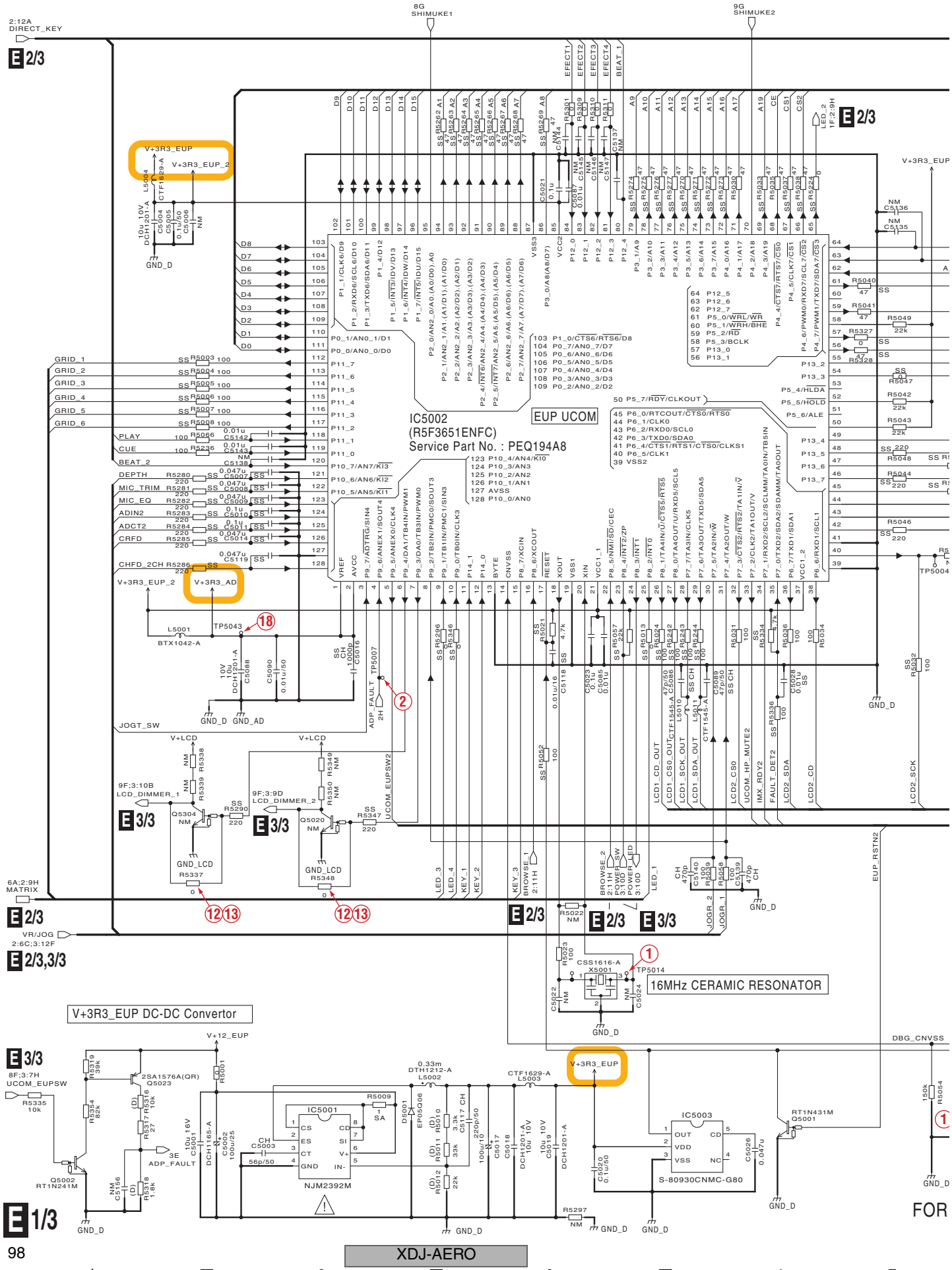
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

Notes
NM is No Mount
NM NM don't show a characteristic

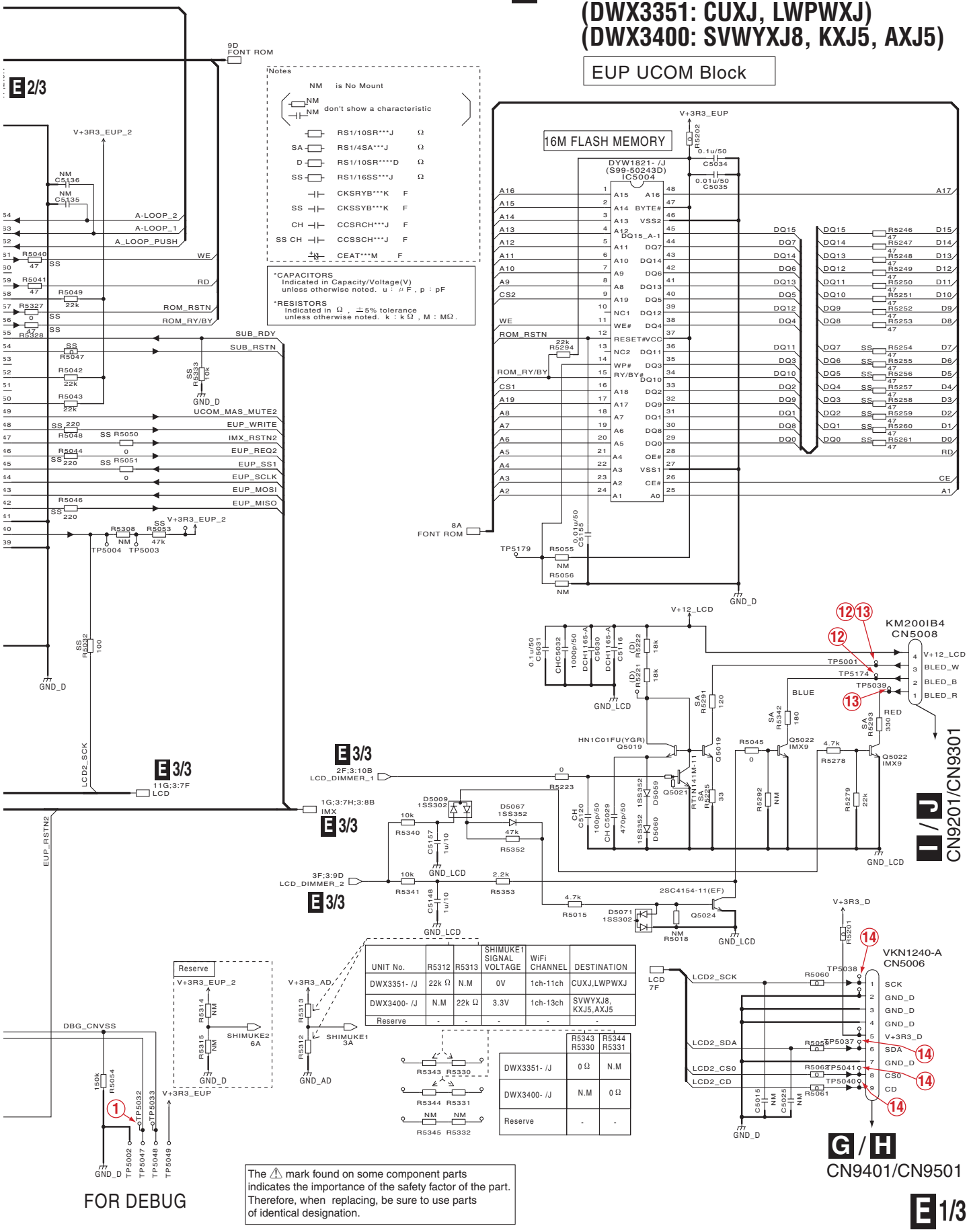
	RS1/10SR***J	Ω	
SQ	RS1/8SQ***J	Ω	
	CKSRYB***K	F	
CH	CCSSCH***J	F	
	CEJQ***M	F	

10.21 EUPB ASSY (1/3)



E 1/3 EUPB ASSY
(DWX3351: CUXJ, LWPWXJ)
(DWX3400: SVWYXJ8, KXJ5, AXJ5)

EUP UCOM Block

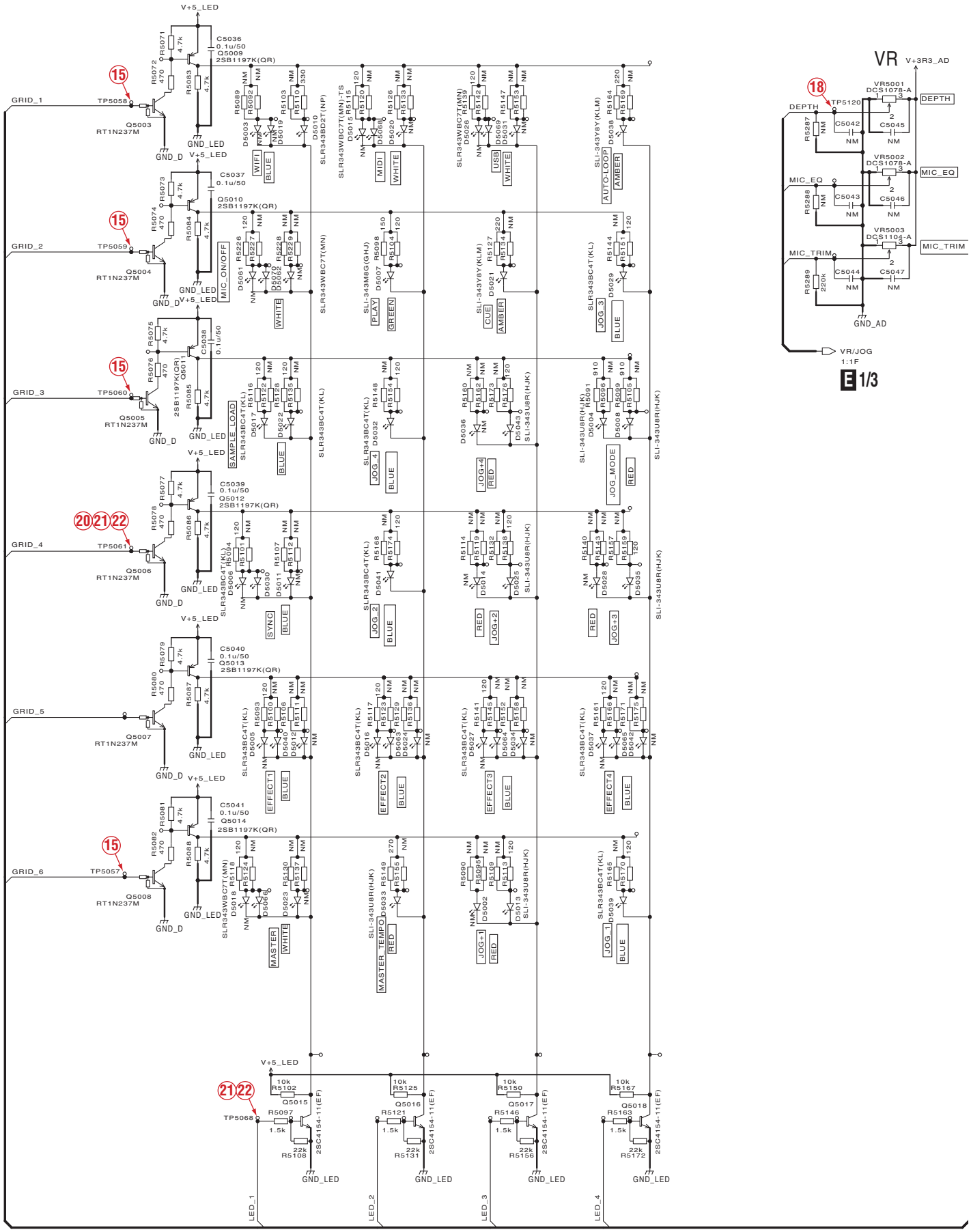


UNIT No.	R5312	R5313	SHIMUKE1 SIGNAL VOLTAGE	WiFi CHANNEL	DESTINATION
DWX3351- /J	22k Ω	N.M	0V	1ch-11ch	CUXJ,LWPWXJ
DWX3400- /J	N.M	22k Ω	3.3V	1ch-13ch	SVWYXJ8, KXJ5,AXJ5
Reserve	-	-	-	-	-

	R5343 R5330	R5344 R5331
DWX3351- /J	0 Ω	N.M
DWX3400- /J	N.M	0 Ω
Reserve	-	-

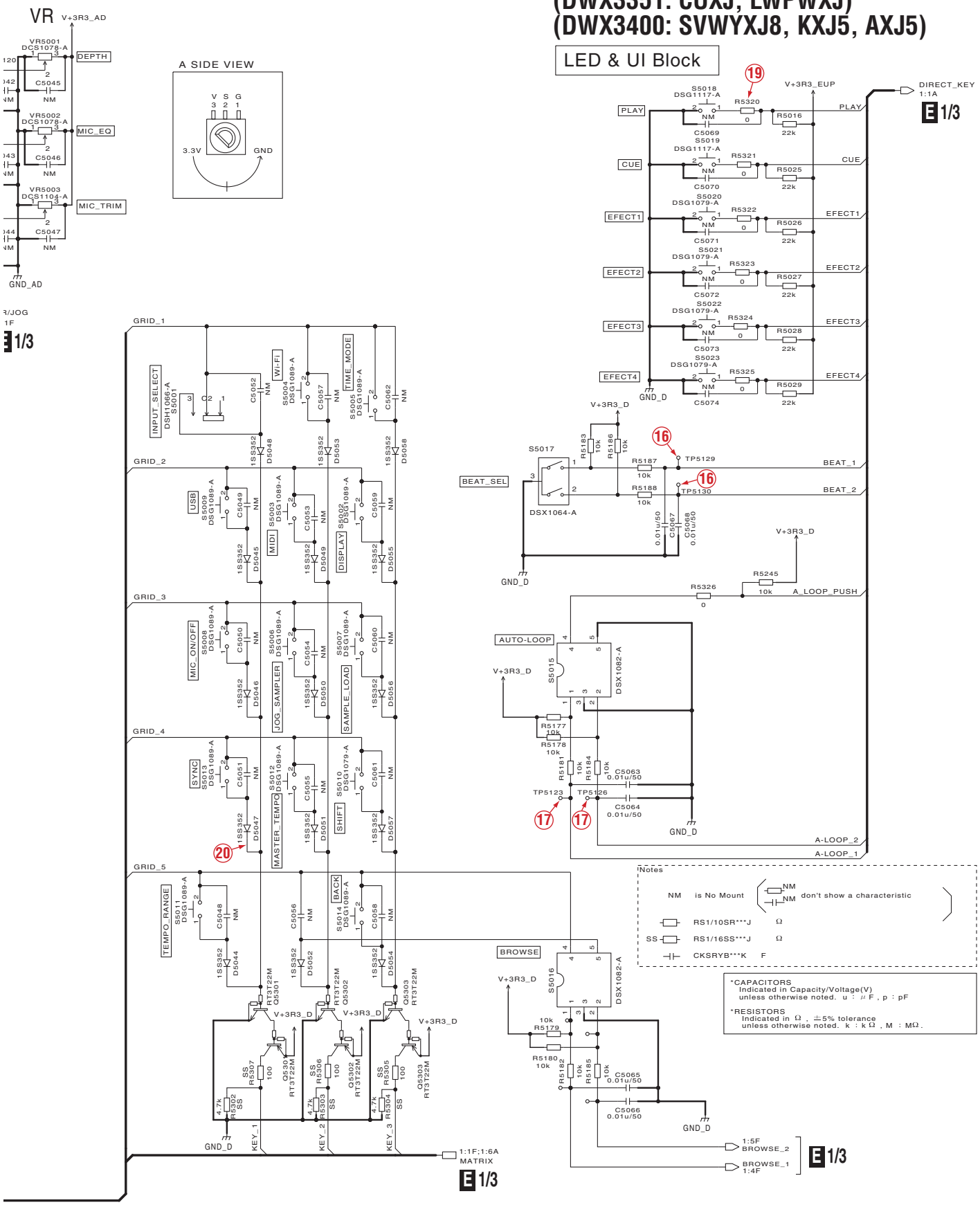
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

10.22 EUPB ASSY (2/3)

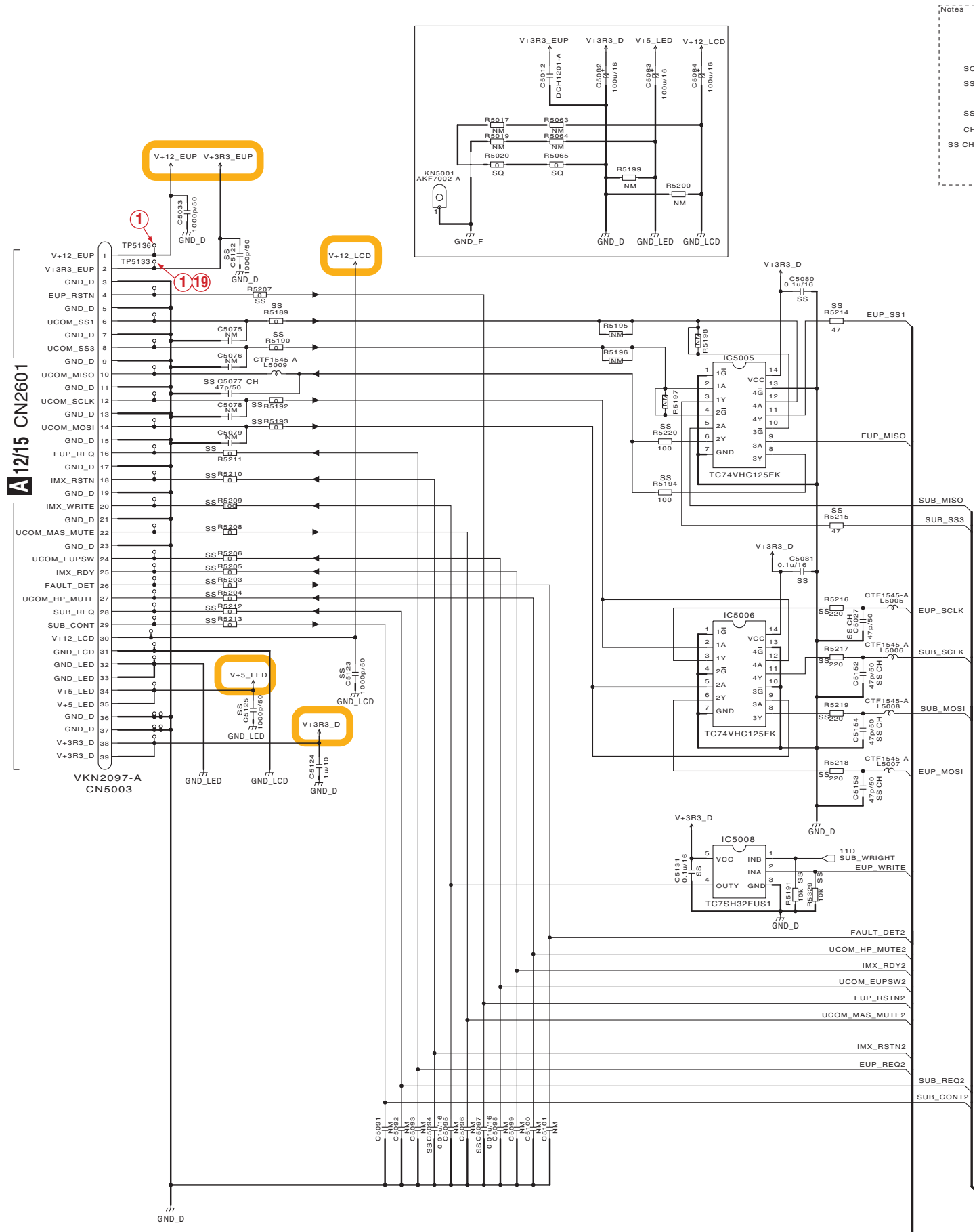


E 2/3 EUPB ASSY
(DWX3351: CUXJ, LWPWXJ)
(DWX3400: SVWYXJ8, KXJ5, AXJ5)

LED & UI Block



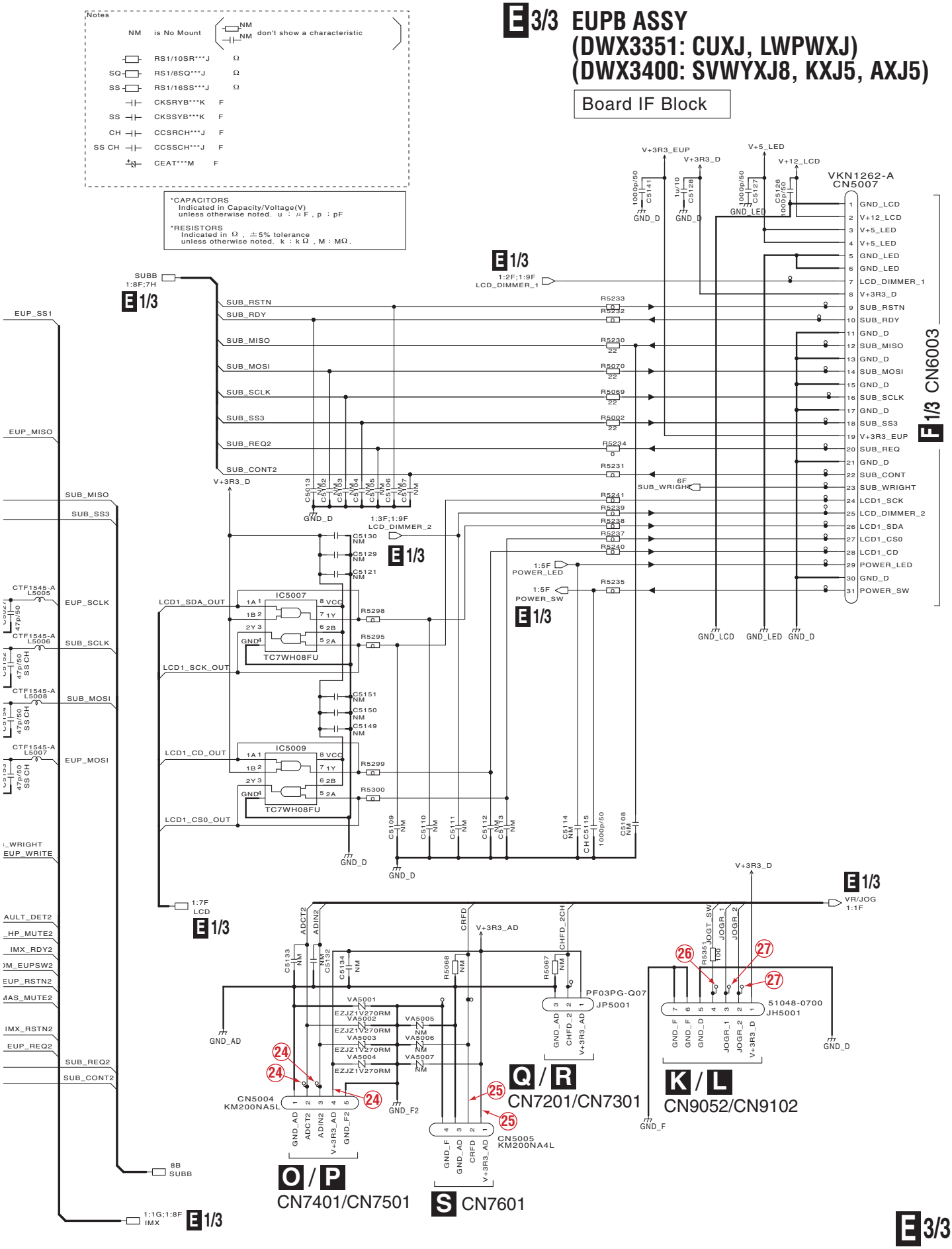
10.23 EUPB ASSY (3/3)



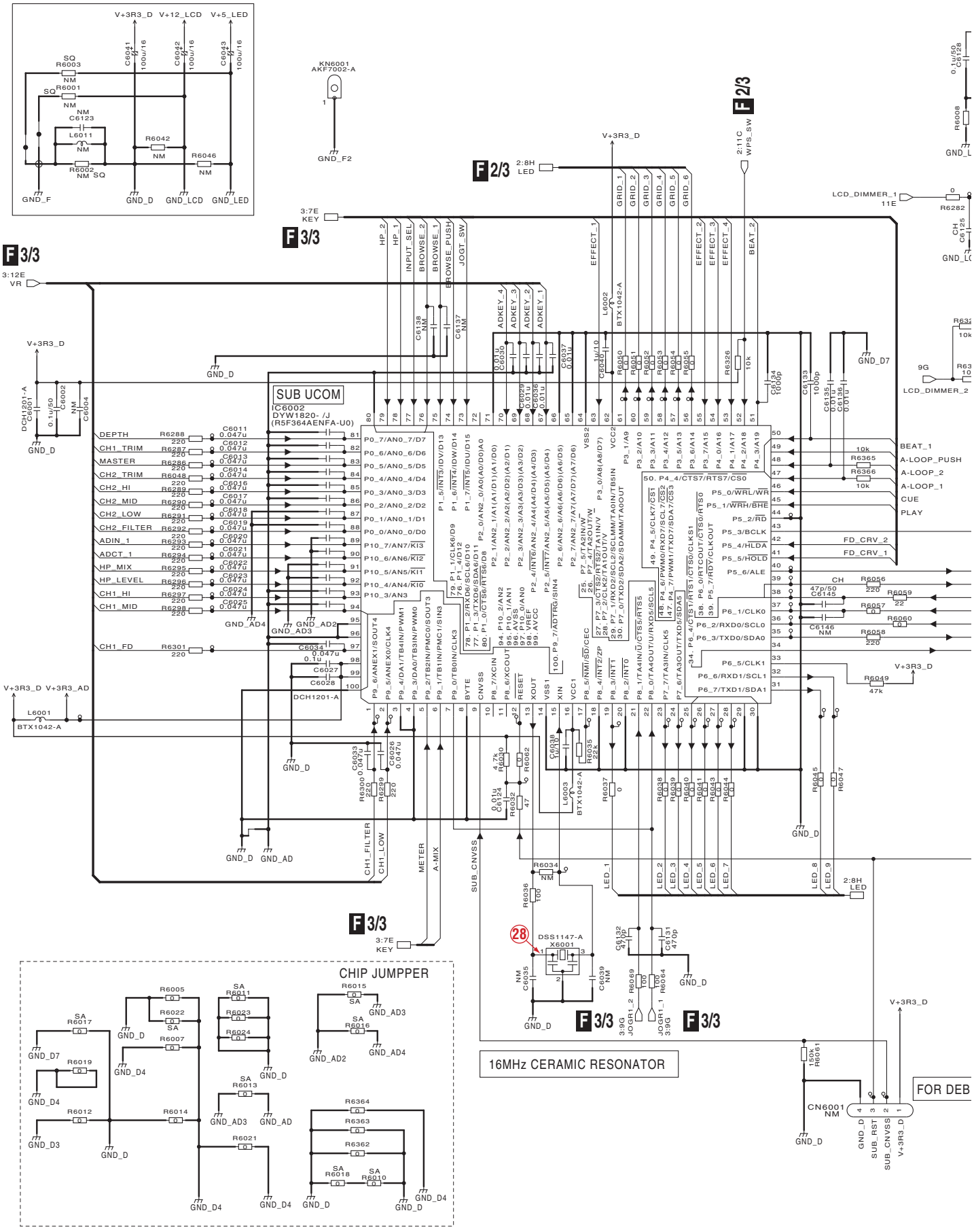
E 3/3

E 3/3 EUPB ASSY
(DWX3351: CUXJ, LWPWXJ)
(DWX3400: SVWYXJ8, KXJ5, AXJ5)

Board IF Block

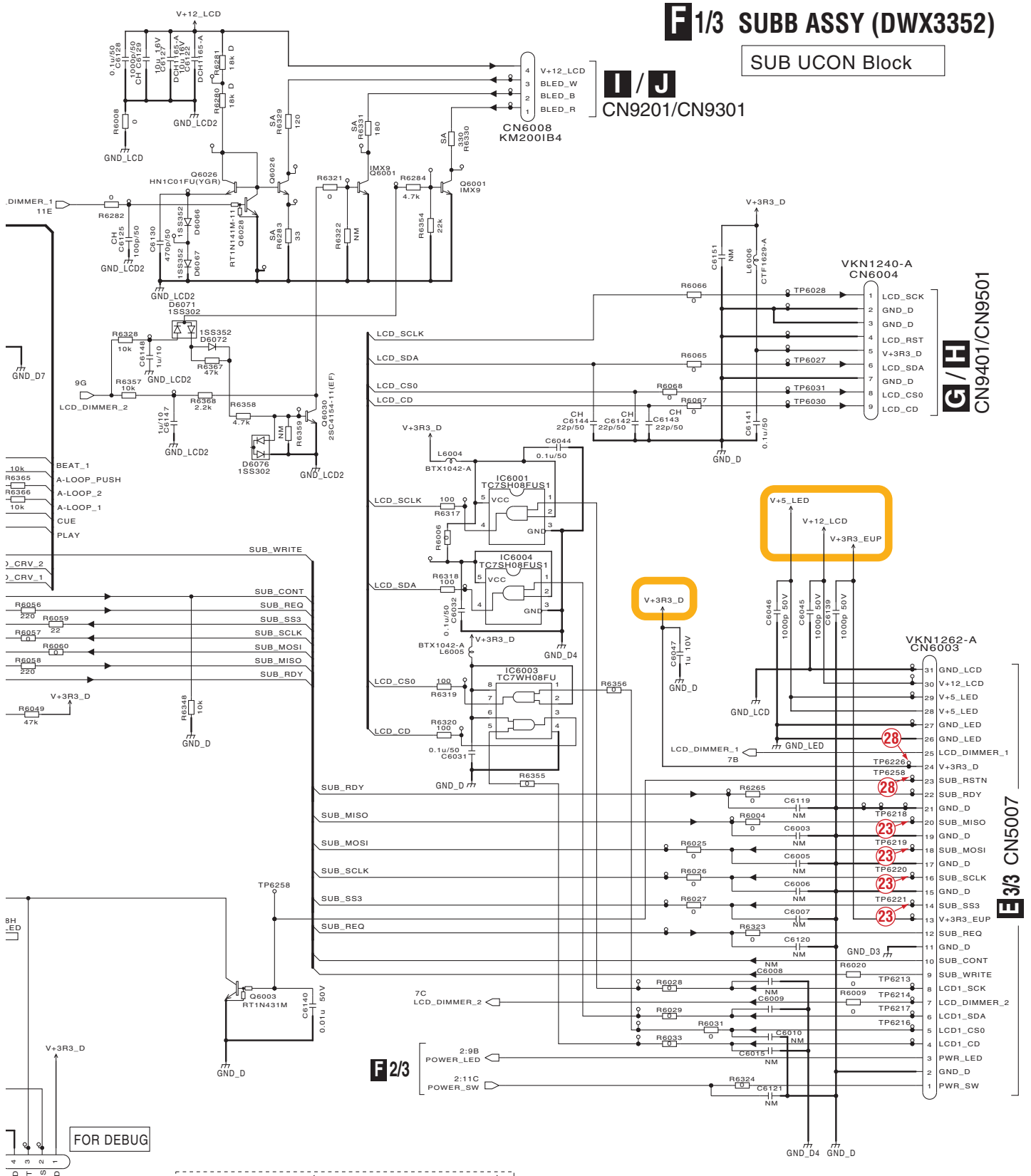


10.24 SUBB ASSY (1/3)



F 1/3 SUBB ASSY (DWX3352)

SUB UCON Block



Notes

NM is No Mount — NM don't show a characteristic

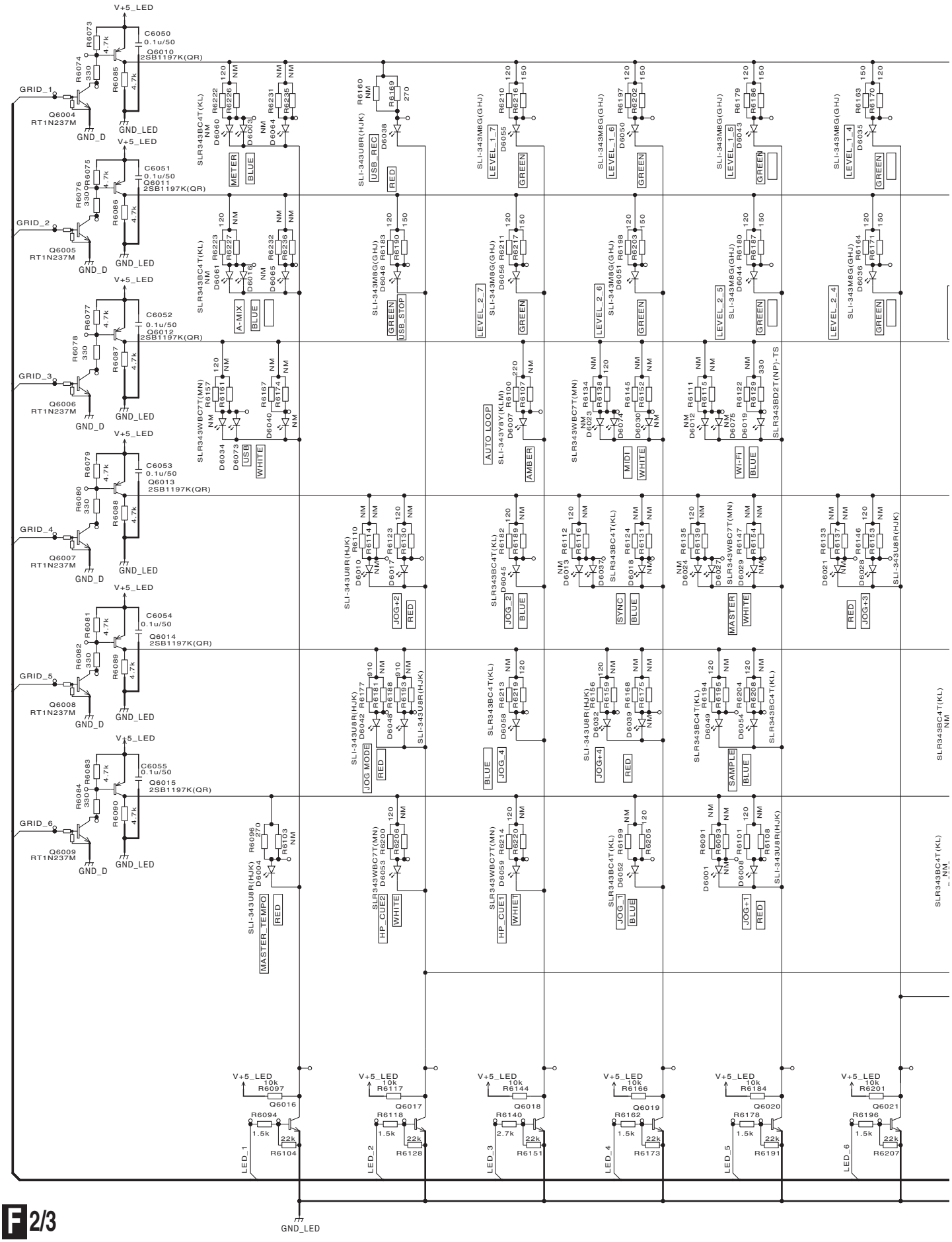
RS1/10SR***J
RS1/10SR****D
RS1/8SQ***J
RS1/4SA***J
CKSRYB***K
CCSRCH***J
CEAL***M

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

F 1/3

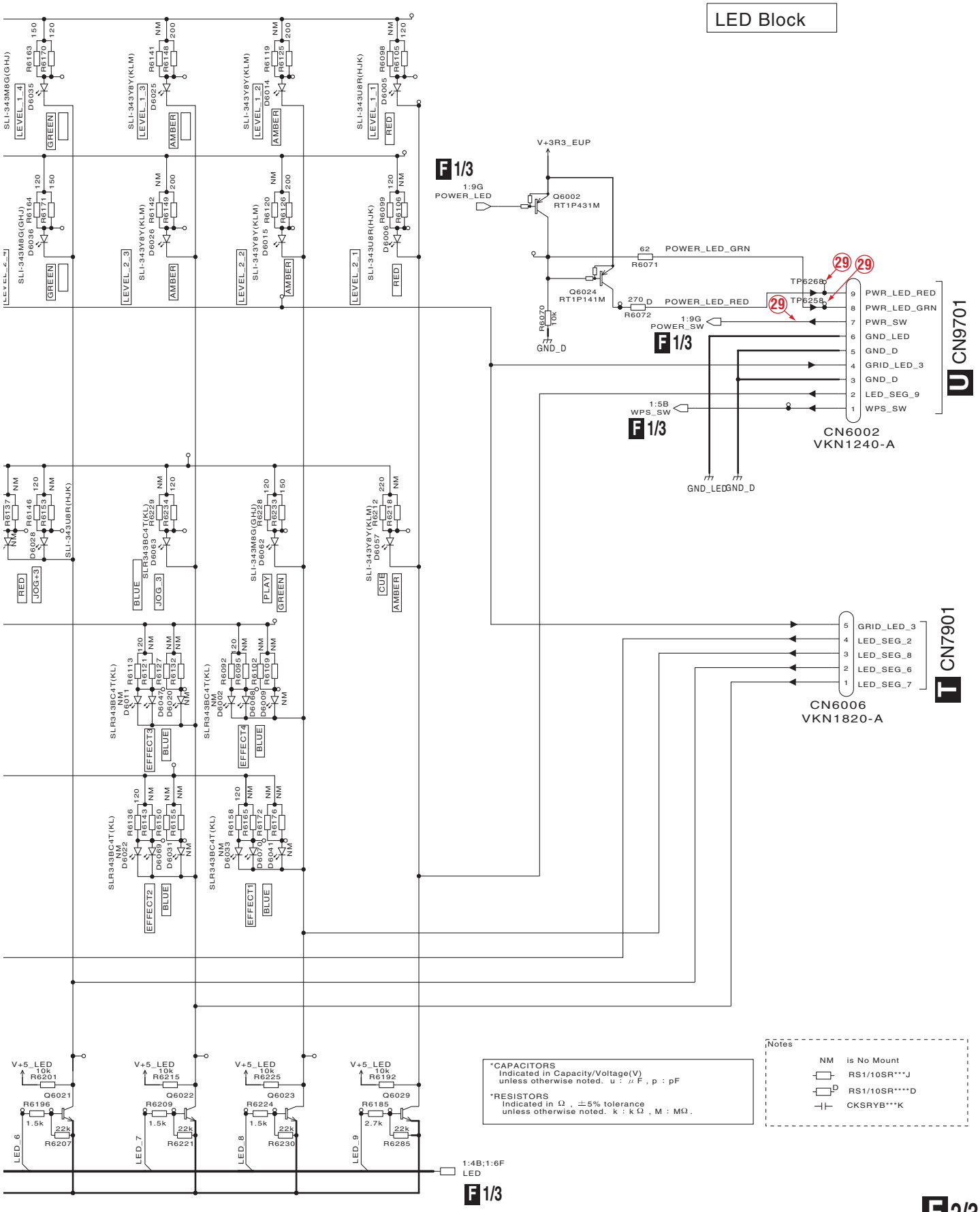
10.25 SUBB ASSY (2/3)



F 2/3

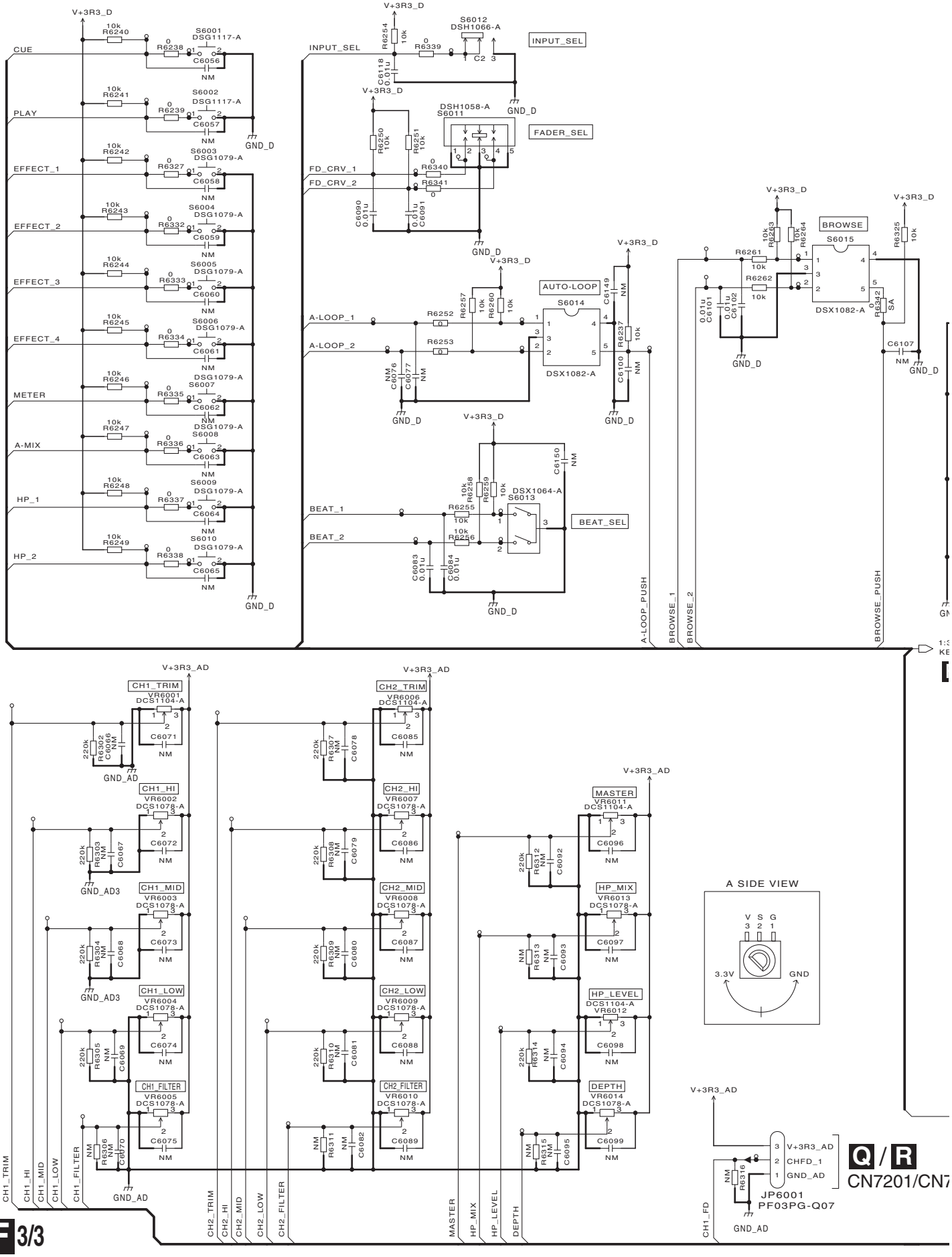
F 2/3 SUBB ASSY (DWX3352)

LED Block



F 2/3

10.26 SUBB ASSY (3/3)



F 3/3

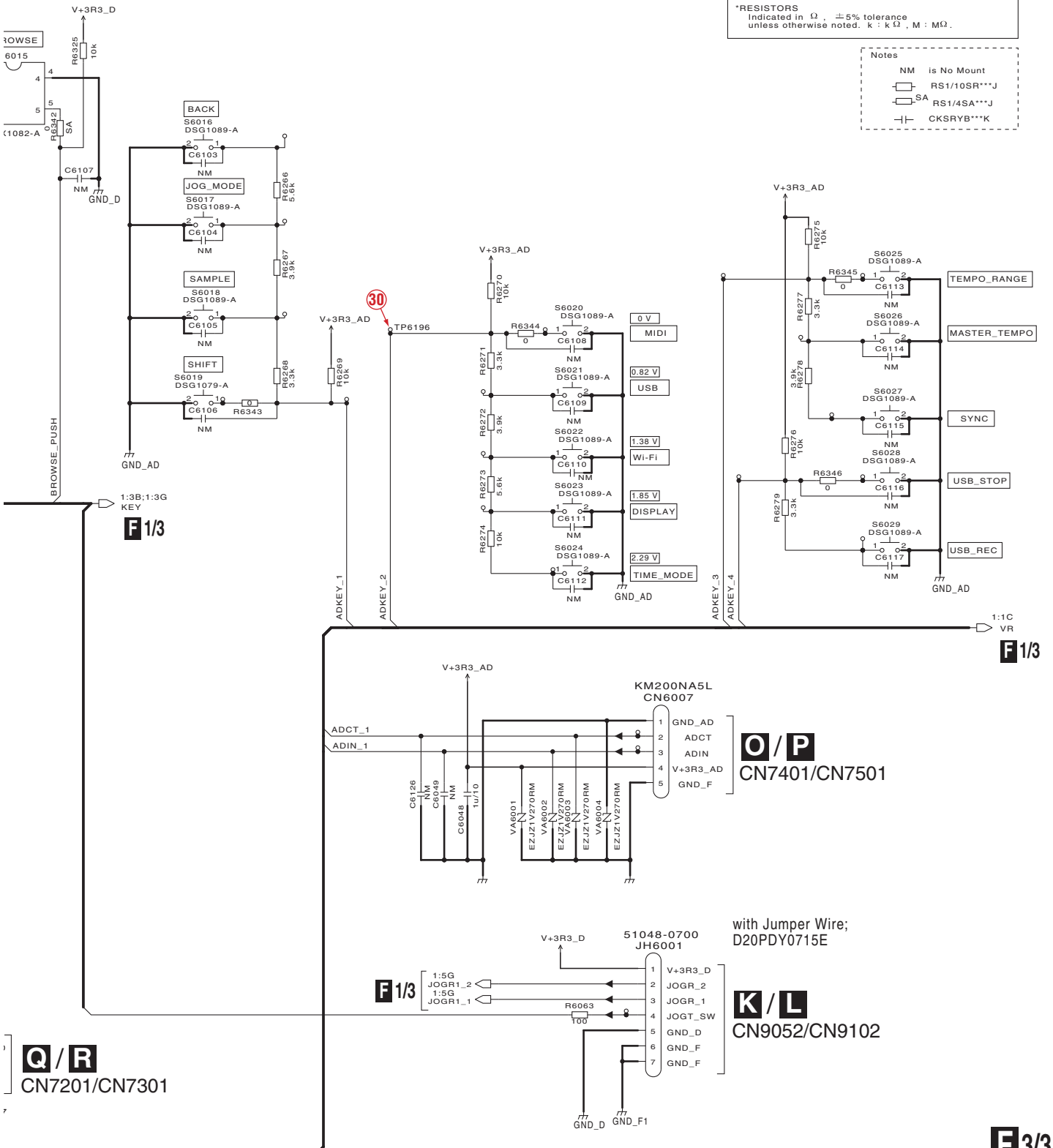
F 3/3 SUBB ASSY (DWX3352)

UI Block

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ .

Notes
NM is No Mount
RS1/10SR***J
SA RS1/4SA***J
CKSRYB***K

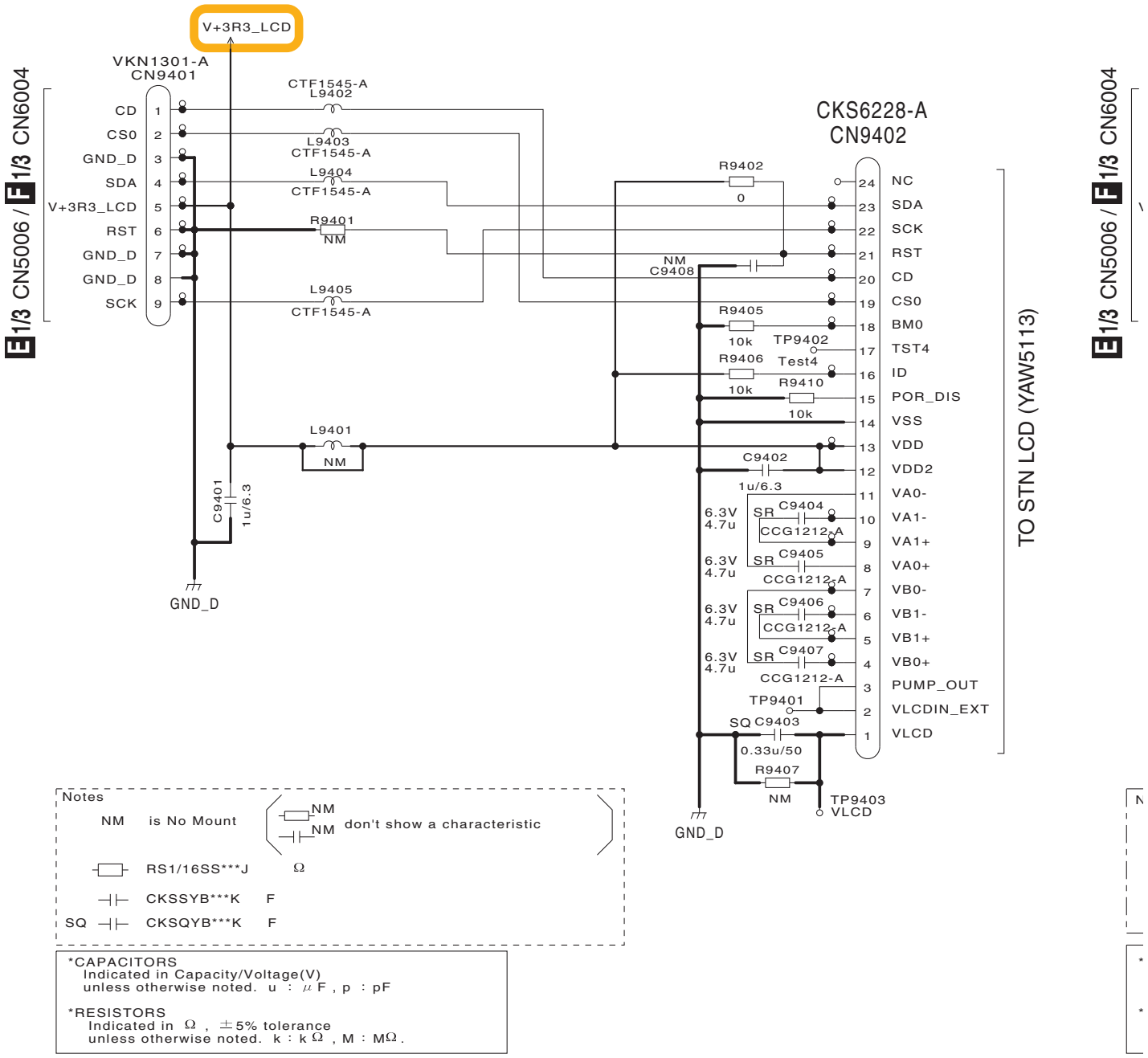


F 3/3

10.27 CCNB1 and CCNB2 ASSYS

Note:
The 1 and 2 Assys of CCNB Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

G CCNB1 ASSY (DWX3388)



Notes

NM is No Mount

NM
NM don't show a characteristic

RS1/16SS***J Ω

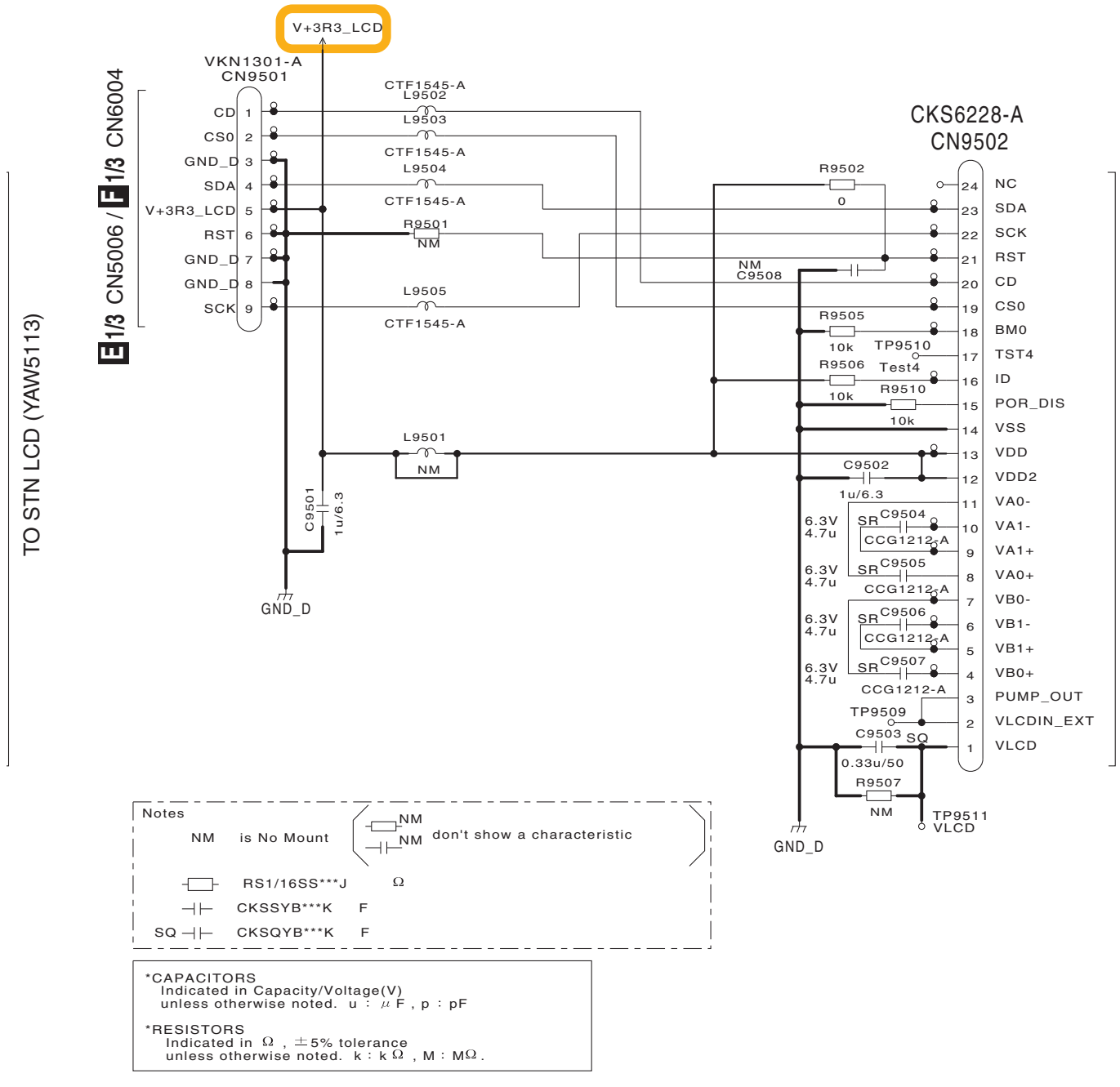
CKSSYB***K F

SQ CKSQYB***K F

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

H CCNB2 ASSY (DWX3391)



Notes

NM is No Mount

NM / NM don't show a characteristic

RS1/16SS***J Ω

CKSSYB***K F

SQ CKSQYB***K F

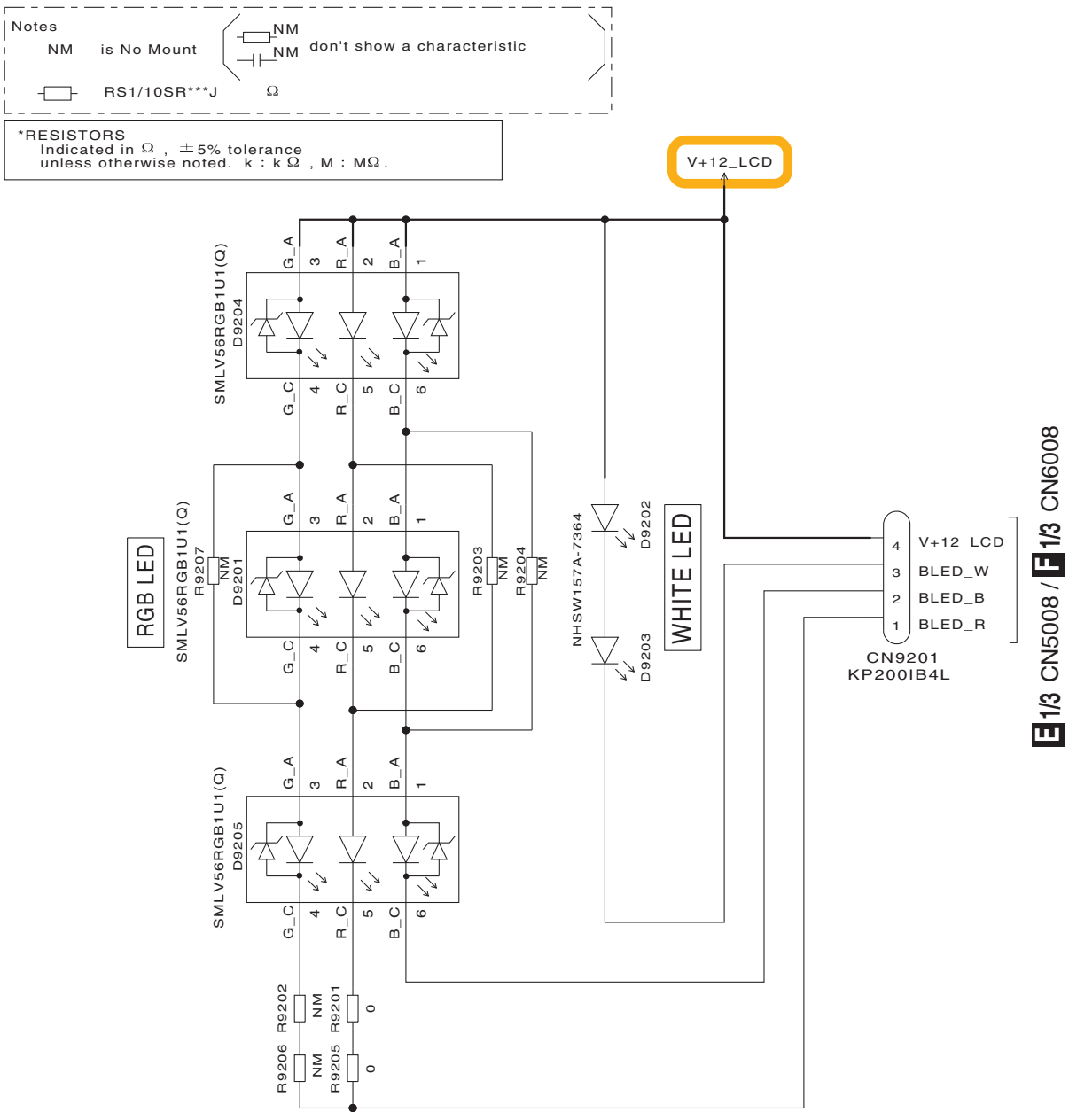
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

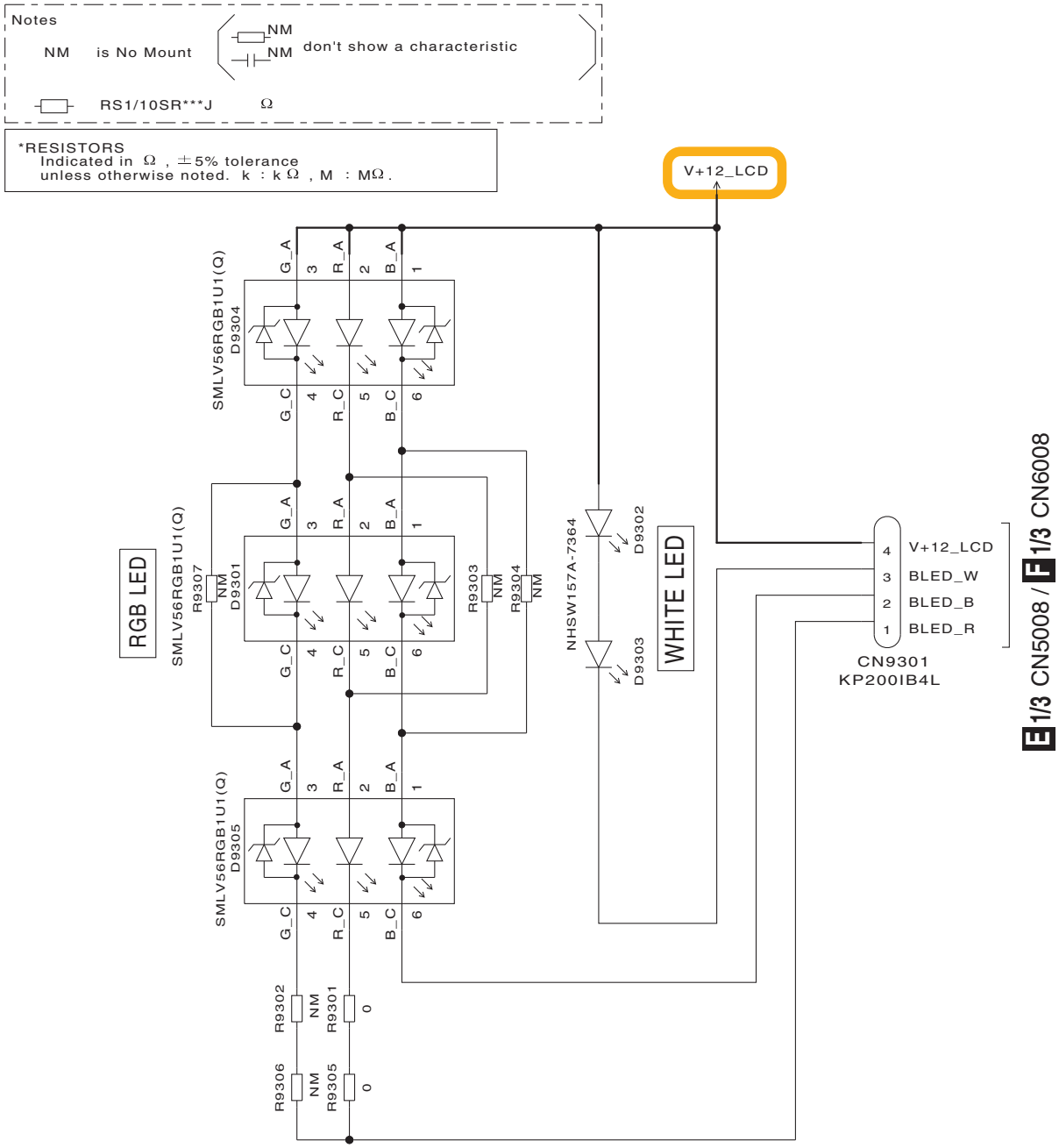
10.28 BLED1 and BLED2 ASSYS

Note:
The 1 and 2 Assys of BLED Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

I BLED1 ASSY (DWX3375)



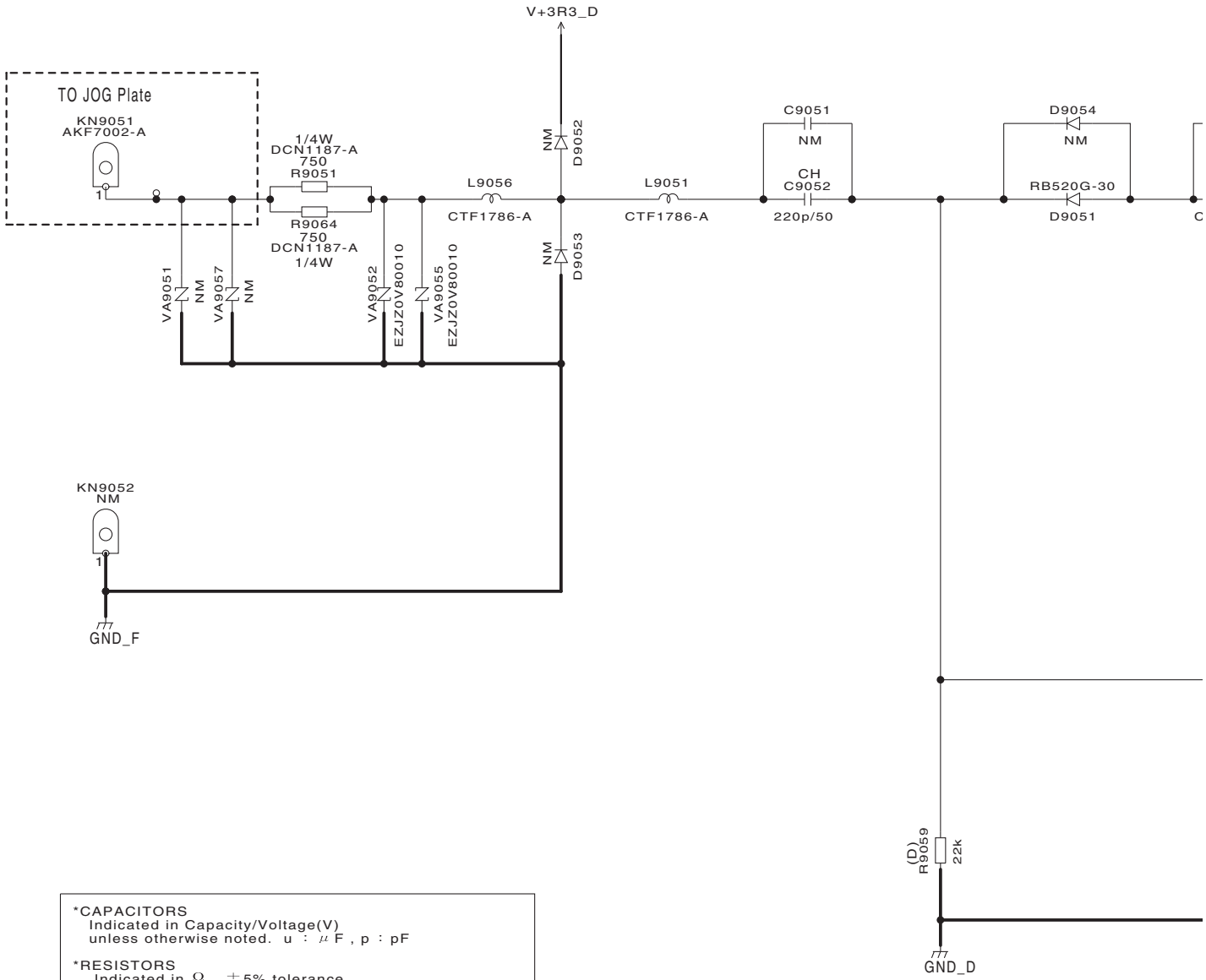
J BLED2 ASSY (DWX3390)



10.29 JOGT1 ASSY

Note:
The 1 and 2 Assys of JOGT Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

K JOGT1 ASSY (DWX3353)



*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

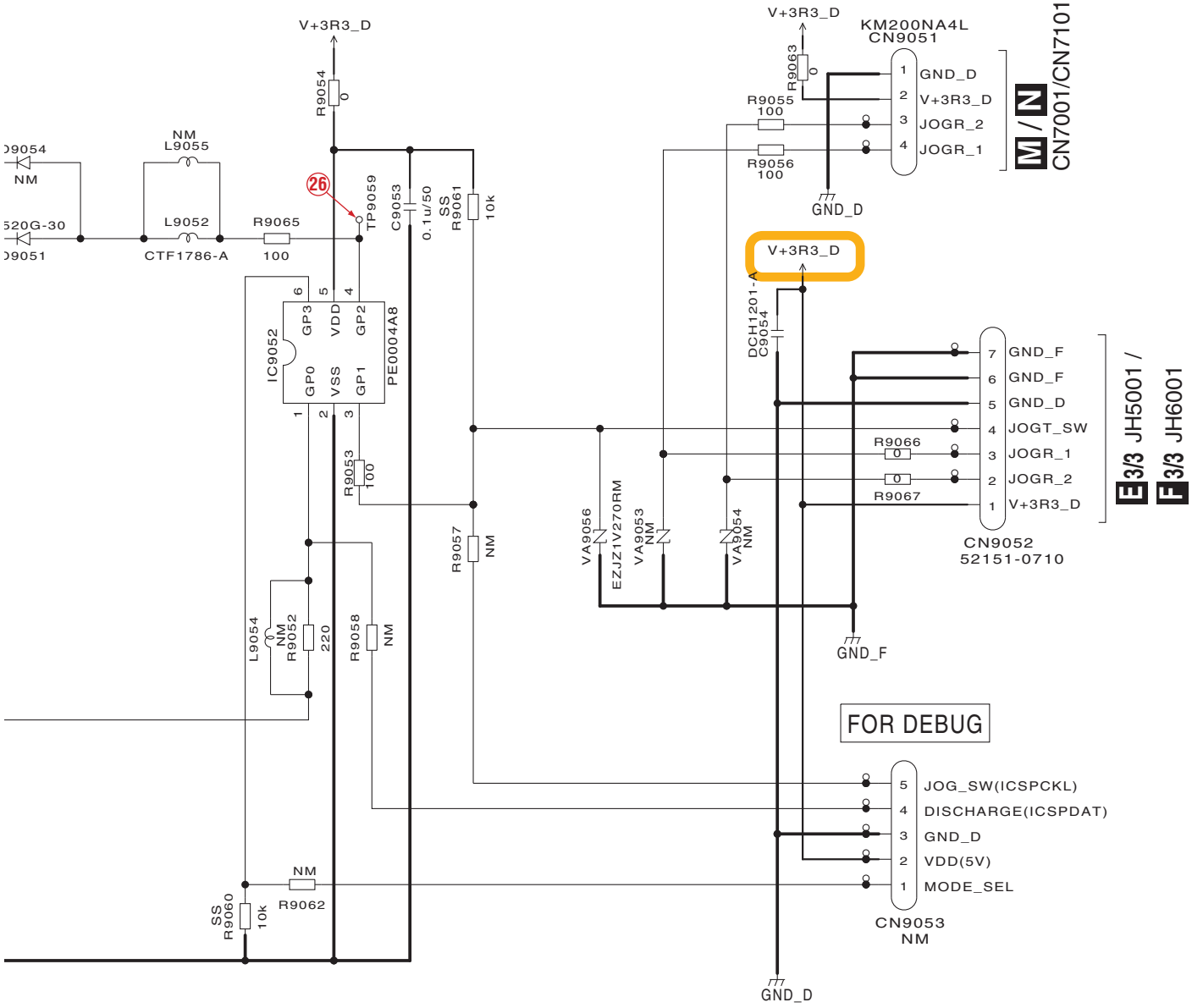
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ .

Notes

NM is No Mount

NM
NM don't show a characteristic

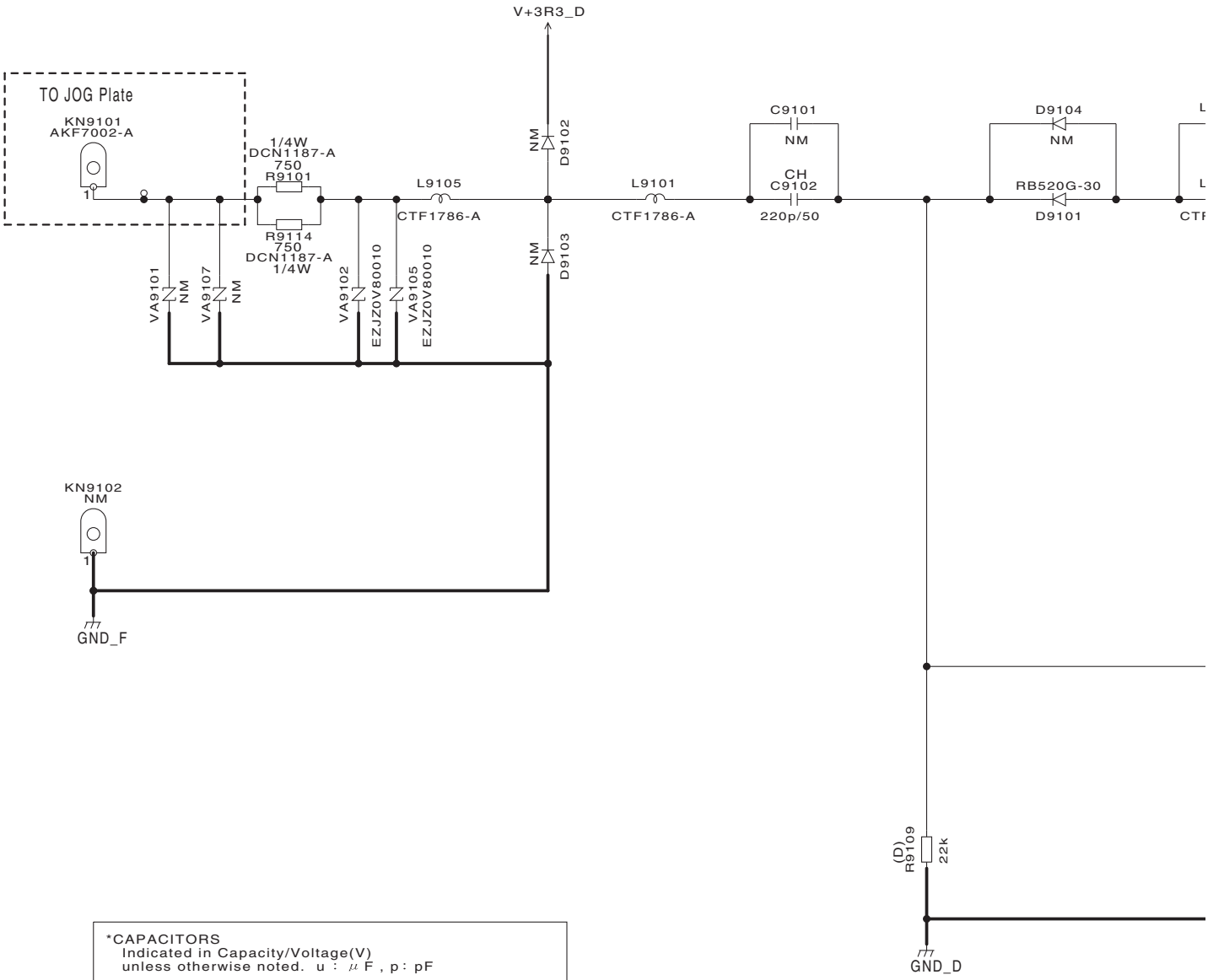
	RS1/10SR***J	Ω
SS	RS1/16SS***J	Ω
(D)	RS1/16SS****D	Ω
	CKSRYB***K	F
CH	CCSSCH***J	F


V+3R3_D
R9054
0
NM
L9055
L9052
CTF1786-A
R9065
100
26
TP9059
C9053
0.1u/50
SS
R9061
10k
IC9052
PE0004A8
GP3
VDD
GP2
GP0
VSS
GP1
R9053
100
R9057
NM
L9054
NM
R9052
220
R9058
NM
SS
R9060
10k
NM
R9062
KM200NA4L
CN9051
R9063
0
R9055
100
R9056
100
GND_D
GND_D
GND_F
GND_F
GND_D
JOGT_SW
JOGR_1
JOGR_2
V+3R3_D
R9066
0
R9067
0
CN9052
52151-0710
VA9056
EZJZ1V270RM
VA9053
NM
VA9054
NM
FOR DEBUG
JOG_SW(ICSPCKL)
DISCHARGE(ICSPDAT)
GND_D
VDD(5V)
MODE_SEL
CN9053
NM
M / N
CN7001/CN7101
E 3/3 JH5001 /
F 3/3 JH6001

10.30 JOGT2 ASSY

Note:
The 1 and 2 Assys of JOGT Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

L JOGT2 ASSY (DWX3389)



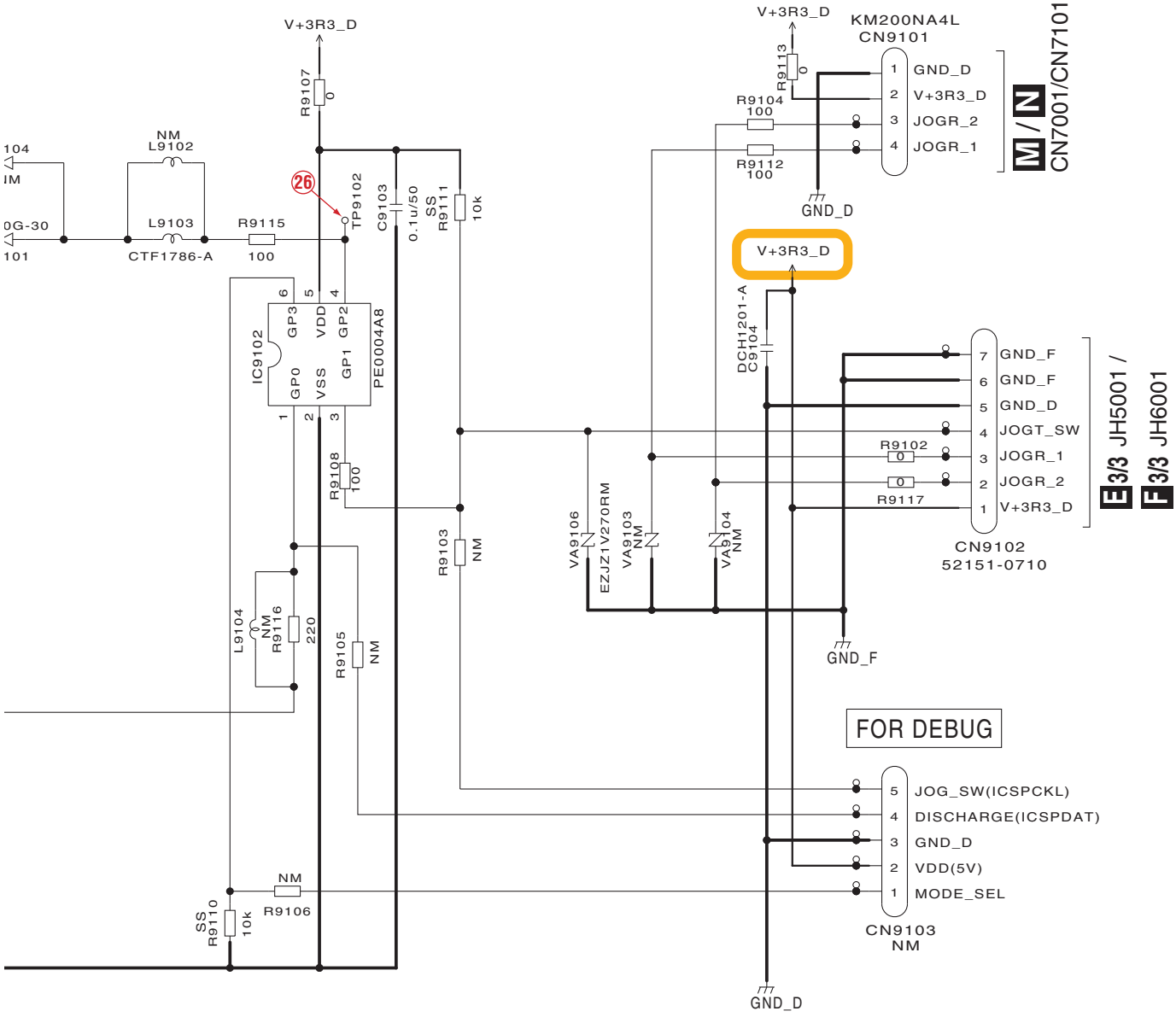
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

Notes

NM is No Mount (NM don't show a characteristic)

	RS1/10SR***J	Ω
SS	RS1/16SS***J	Ω
(D)	RS1/16SS****D	Ω
	CKSRYB***K	F
CH	CCSSCH***J	F

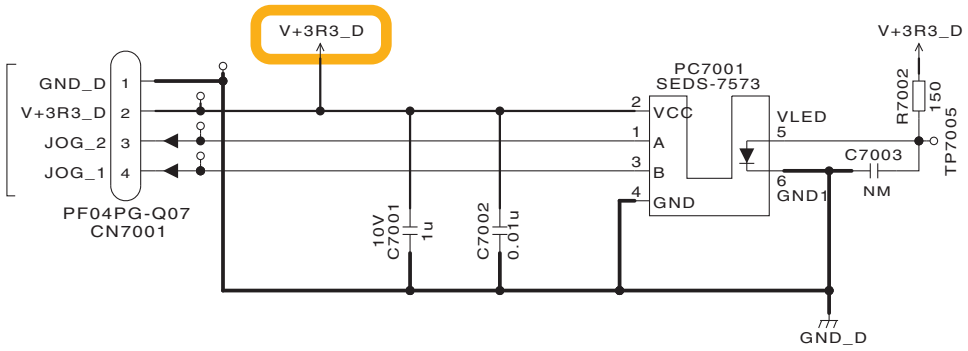

V+3R3_D
R9107
0
104
IM
NM
L9102
0G-30
101
L9103
CTF1786-A
R9115
100
26
TP9102
C9103
0.1u/50
SS
R9111
10k
IC9102
GP3
VDD
GP2
GP0
VSS
GP1
PE0004A8
R9108
100
L9104
NM
R9116
220
R9105
NM
R9103
NM
SS
R9110
10k
NM
R9106
V+3R3_D
R9113
0
R9104
100
R9112
100
GND_D
KM200NA4L
CN9101
1 GND_D
2 V+3R3_D
3 JOGR_2
4 JOGR_1
M / N
CN7001/CN7101
V+3R3_D
DCH1201-A
C9104
VA9106
EZJ21V270RM
VA9103
NM
VA9104
NM
R9102
0
R9117
0
7 GND_F
6 GND_F
5 GND_D
4 JOGT_SW
3 JOGR_1
2 JOGR_2
1 V+3R3_D
E 3/3 JH5001 /
F 3/3 JH6001
CN9102
52151-0710
GND_F
FOR DEBUG
5 JOG_SW(ICSPCKL)
4 DISCHARGE(ICSPDAT)
3 GND_D
2 VDD(5V)
1 MODE_SEL
CN9103
NM
GND_D

10.31 JOGR1 and JOGR2 ASSYS

Note:
The 1 and 2 Assys of JOGR Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

M JOGR1 ASSY (DWS1441)

K / L
CN9051/CN9101



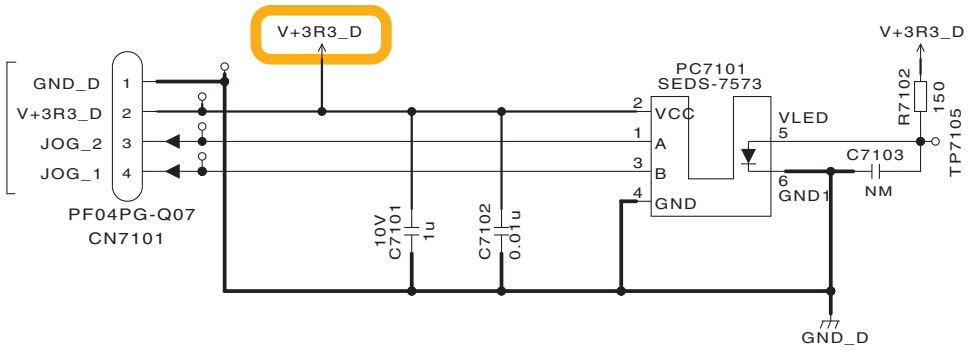
NOTES
NM is No Mount
RS1/10SR***J
CKSRYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

N JOGR2 ASSY (DWS1451)

K / L
CN9051/CN9101

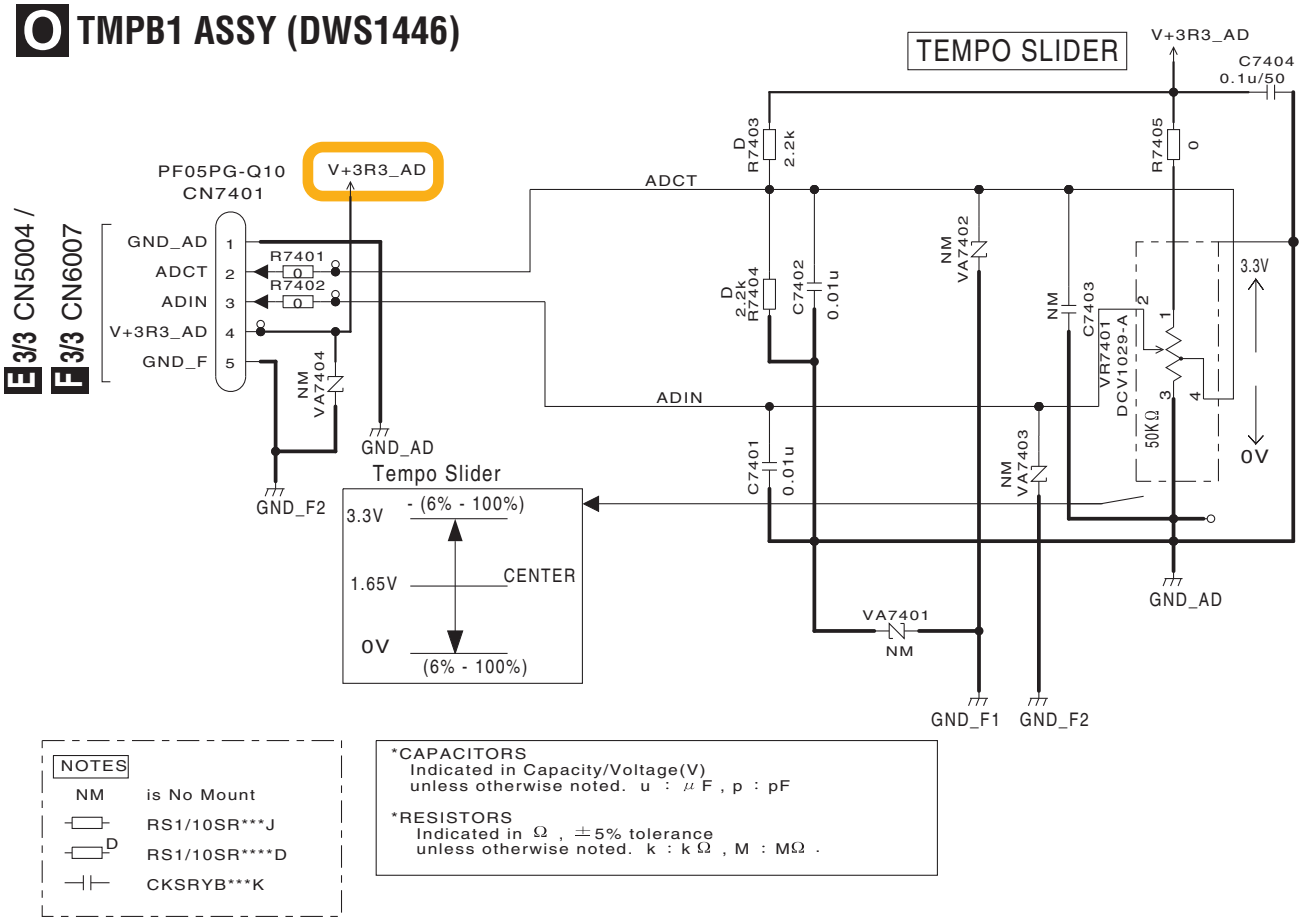


M N

10.32 TEMPB1 and TEMPB2 ASSYS

Note:
The 1 and 2 Assys of TEMPB Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

O TMPB1 ASSY (DWS1446)

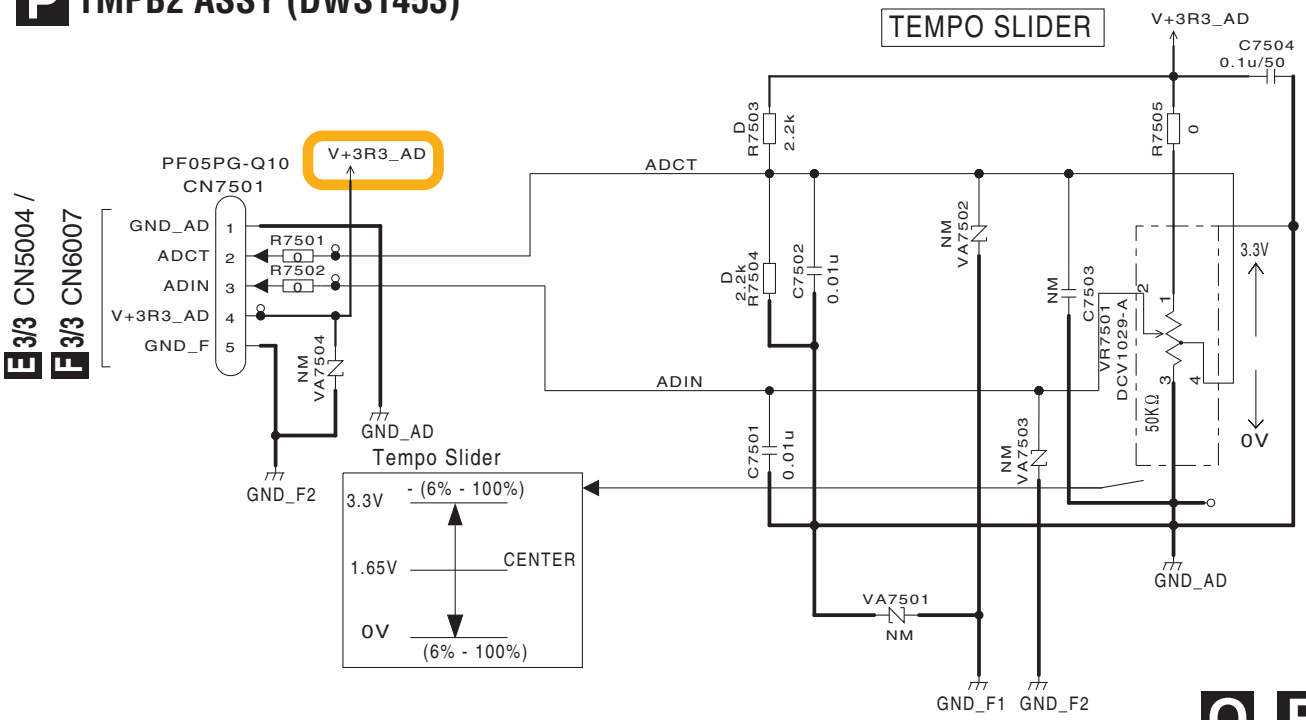


NOTES
NM is No Mount
RS1/10SR***J
D RS1/10SR****D
CKSRYB***K

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ .

P TMPB2 ASSY (DWS1453)

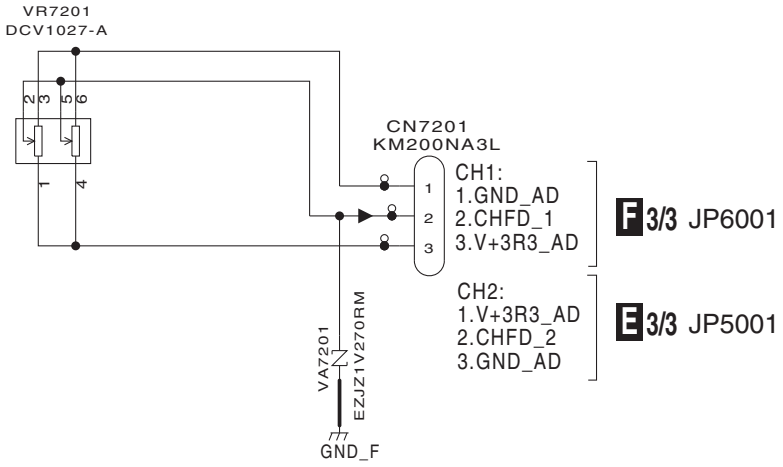


O P

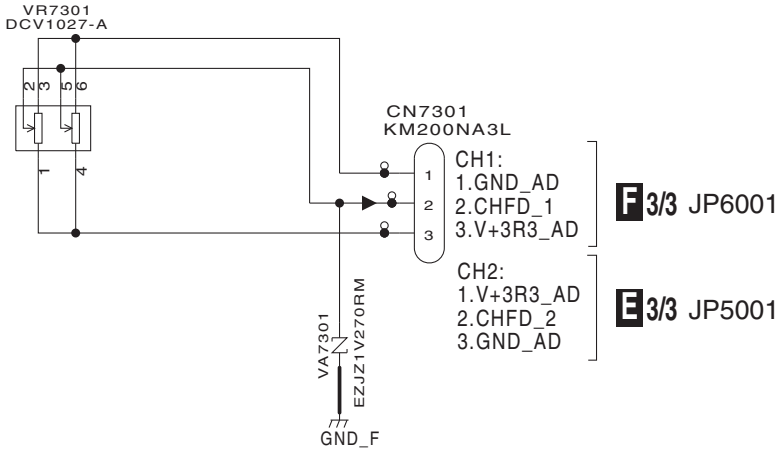
10.33 CHFD1, CHFD2 and CRFD ASSYS

Note:
The 1 and 2 Assys of CHFD Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

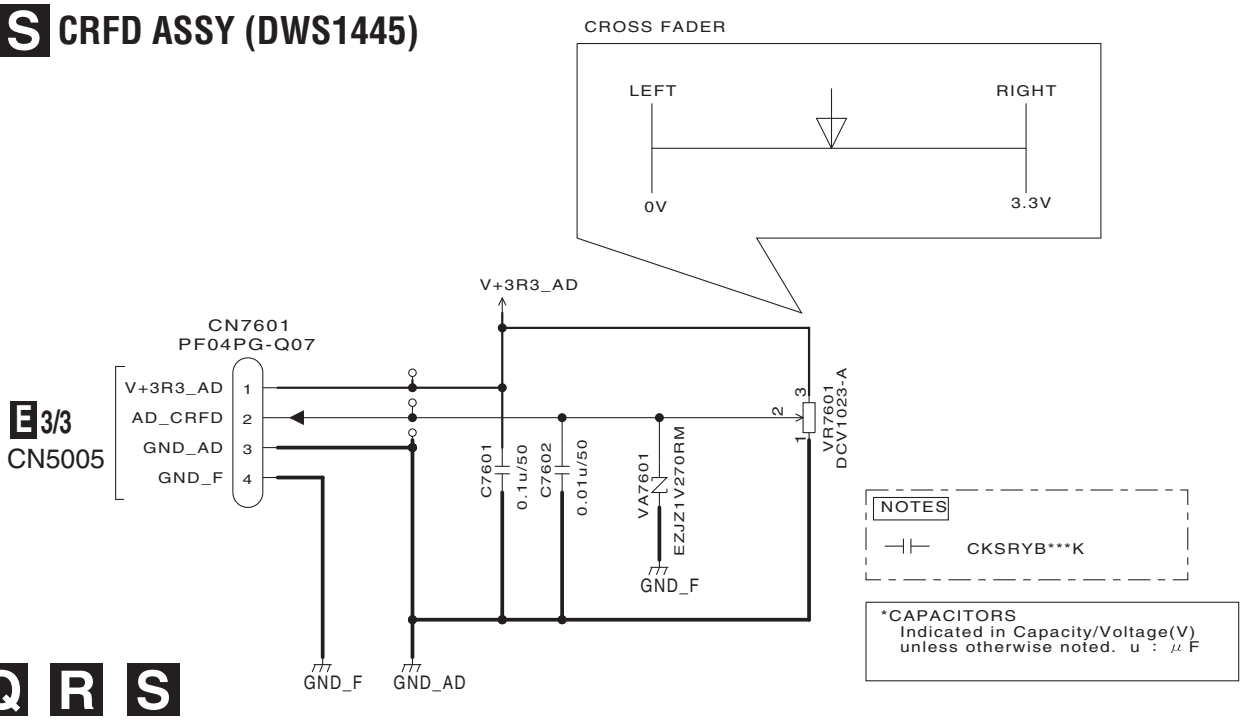
Q CHFD1 ASSY (DWS1444)



R CHFD2 ASSY (DWS1452)

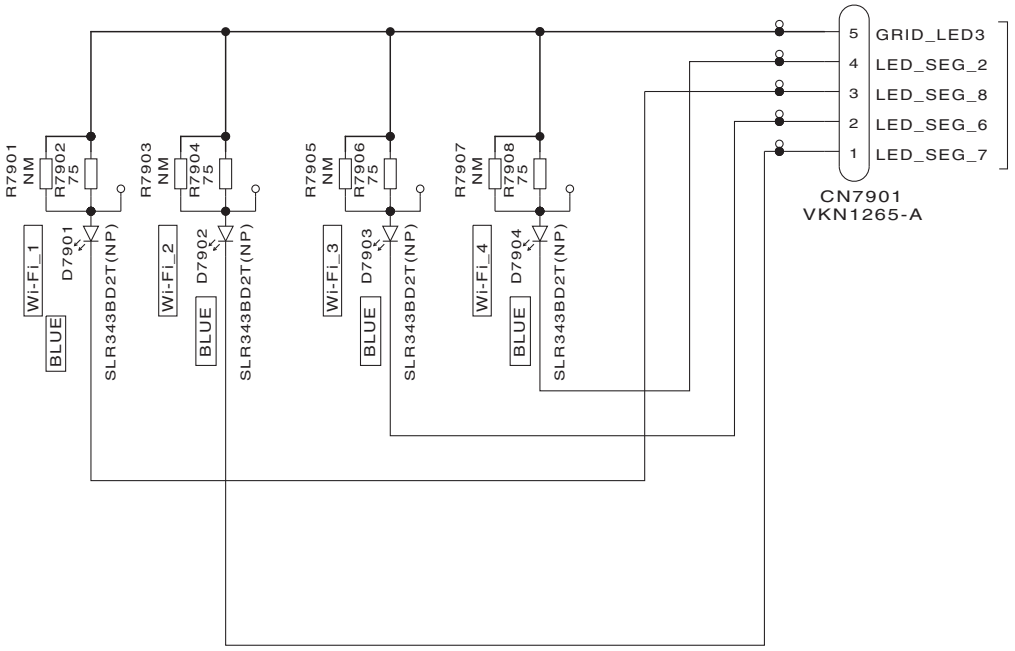


S CRFD ASSY (DWS1445)



10.34 WLED and PSWB ASSY

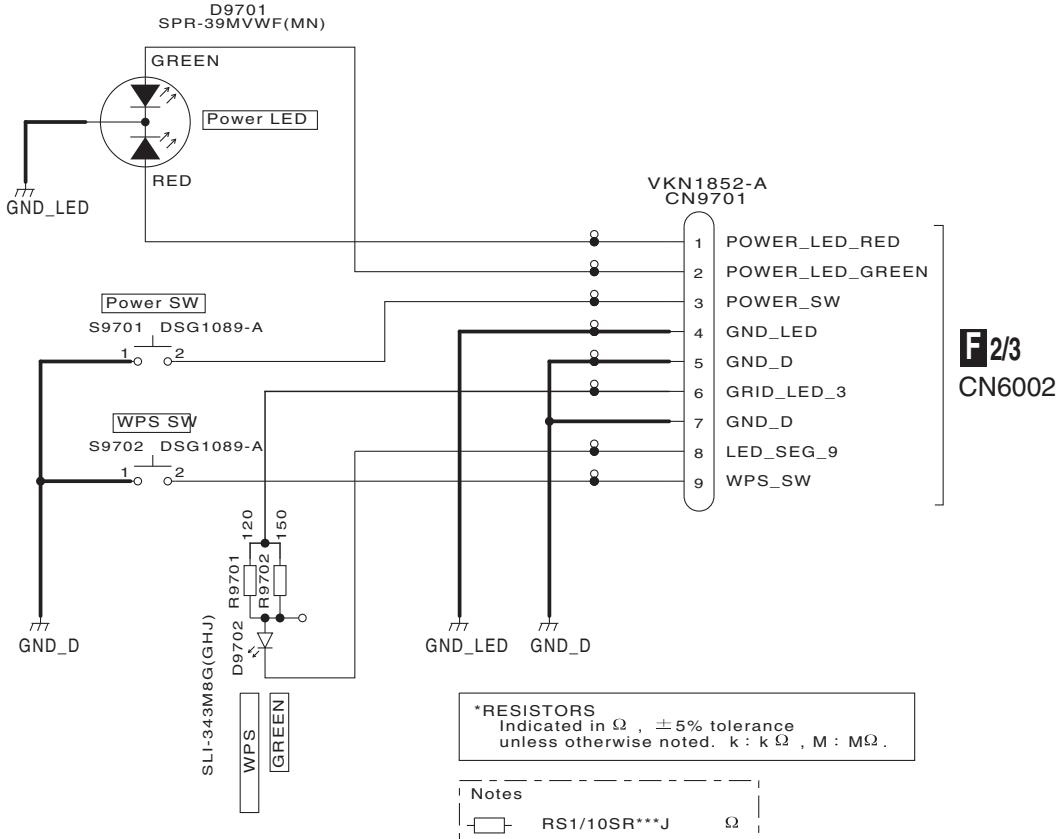
T WLED ASSY (DWX3376)



*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

Notes
NM is No Mount
RS1/10SR***J Ω

U PSWB ASSY (DWS1442)



*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

Notes
RS1/10SR***J Ω

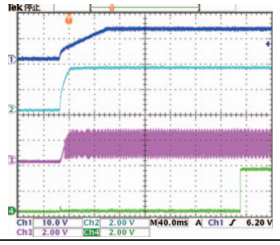
10.35 VOLTAGES

Name of Voltage	Min	Center	Max	Memo
V+12_DCIN	11.4	12.0	12.6	Specification of AC Adapter
V+12_EUP	11.0	12.0	12.6	
V+3R3_EUP	3.14	3.3	3.47	±5%
V+12_D	11.0	12.0	12.6	
V+12_LCD	11.0	12.0	12.6	
V+4R2_D	3.99	4.2	4.41	±5%
V+5_D	4.75	5.0	5.25	±5%
V+5_LED	4.75	5.0	5.25	±5%
V+2R775_D	2.64	2.78	2.91	±5%
V+2R775_PMIC	2.64	2.78	2.91	±5%
V+3R3_D	3.14	3.3	3.47	±5%
V+7R5_A	7.13	7.5	7.88	±5%
V+16R5_A	15.00	16.5	18.00	±9%
V-7R5_A	-7.88	-7.5	-7.13	±5%
V-16R5_A	-18.00	-16.5	-15.00	±9%
V+5_A	4.75	5.0	5.25	±5%
V+1R1_VDDGP	1.0	1.1	1.2	±100 mV
V+1R225_VCC	1.13	1.23	1.33	±100 mV
V+1R2_D	1.1	1.2	1.3	±100 mV
V+1R8_D	1.7	1.8	1.9	±100 mV
V+1R2_SRTC	1.1	1.2	1.3	±100 mV
V+3R3_VDDA	3.14	3.3	3.47	±5%
5V_USB1	4.75	5.0	5.25	±5%
5V_USB3	4.75	5.0	5.25	±5%

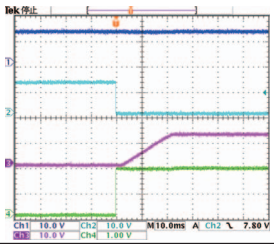
10.36 WAVEFORMS

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

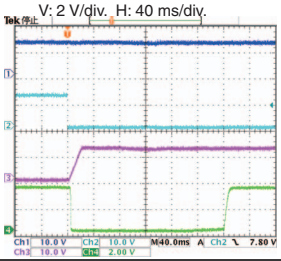
(1) AC adapter connection
(at AC adapter connection)
Ch1: **TP5136** (V+12_EUP)
V: 10 V/div. H: 40 ms/div.
Ch2: **TP5133** (V+3R3_EUP)
V: 2 V/div. H: 40 ms/div.
Ch3: **TP5014** (EUP_Xin)
V: 2 V/div. H: 40 ms/div.
Ch4: **TP5032** (EUP_RST_N)
V: 2 V/div. H: 40 ms/div.



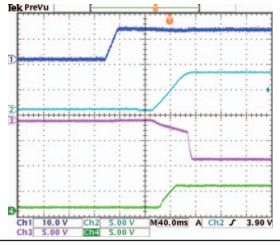
(2) ADP_FAULT operation at start up
(at pressed Power ON SW)
Ch1: **TP121** (V+12_EUP)
V: 10 V/div. H: 10 ms/div.
Ch2: **TP131** (FET_STBSW)
V: 10 V/div. H: 10 ms/div.
Ch3: **TP122** (V+12_D)
V: 10 V/div. H: 10 ms/div.
Ch4: **TP5007** (ADP_FAULT)
V: 1 V/div. H: 10 ms/div.



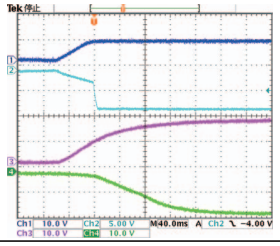
(3) FUALT_DET operating at start up
(at pressed Power ON SW)
Ch1: **TP121** (V+12_EUP)
V: 10 V/div. H: 40 ms/div.
Ch2: **TP131** (FET_STBSW)
V: 10 V/div. H: 40 ms/div.
Ch3: **TP122** (V+12_D)
V: 10 V/div. H: 40 ms/div.
Ch4: **TP2620** (FUALT_DET)
V: 2 V/div. H: 40 ms/div.



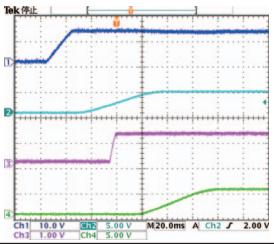
(4) Audio power start up 1
(start up after pressed Power ON SW)
Ch1: **TP122** (V+12_D)
V: 10 V/div. H: 40 ms/div.
Ch2: **TP408** (V+7R5_A)
V: 5 V/div. H: 40 ms/div.
Ch3: **TP407** (V-7R5_A_HP)
V: 5 V/div. H: 40 ms/div.
Ch4: **TP130** (V+5_A)
V: 5 V/div. H: 40 ms/div.



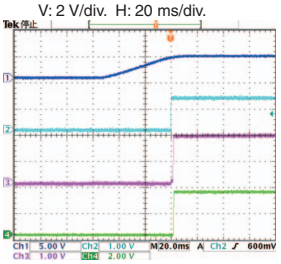
(5) Audio power start up 2
(start up after pressed Power ON SW)
Ch1: **TP408** (V+7R5_A)
V: 10 V/div. H: 40 ms/div.
Ch2: **TP407** (V-7R5_A_HP)
V: 5 V/div. H: 40 ms/div.
Ch3: **TP409** (V+16R5_A)
V: 10 V/div. H: 40 ms/div.
Ch4: **TP410** (V-16R5_A)
V: 10 V/div. H: 40 ms/div.



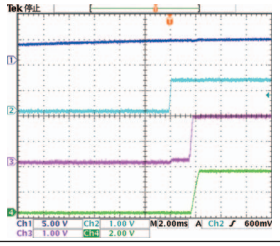
(6) Digital power start up 1
(start up after pressed Power ON SW)
Ch1: **TP122** (V+12_D)
V: 10 V/div. H: 20 ms/div.
Ch2: **TP123** (V+4R2_D)
V: 5 V/div. H: 20 ms/div.
Ch3: **TP521** (V+1R2_SRTC)
V: 1 V/div. H: 20 ms/div.
Ch4: **TP128** (V+5_D)
V: 5 V/div. H: 20 ms/div.



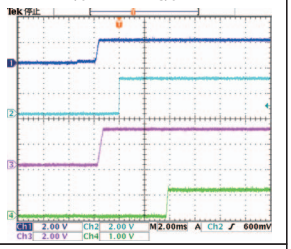
(7) Digital power start up 2
(start up after pressed Power ON SW)
Ch1: **TP123** (V+4R2_D)
V: 5 V/div. H: 20 ms/div.
Ch2: **TP516** (V+1R225_VCC)
V: 1 V/div. H: 20 ms/div.
Ch3: **TP518** (V+1R8_D)
V: 1 V/div. H: 20 ms/div.
Ch4: **TP129** (V+3R3_D)
V: 2 V/div. H: 20 ms/div.



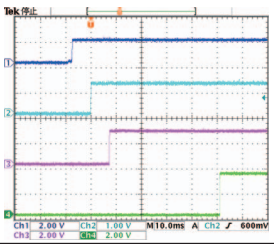
(Expansion)
Ch1: **TP123** (V+4R2_D)
V: 5 V/div. H: 2 ms/div.
Ch2: **TP516** (V+1R225_VCC)
V: 1 V/div. H: 2 ms/div.
Ch3: **TP518** (V+1R8_D)
V: 1 V/div. H: 2 ms/div.
Ch4: **TP129** (V+3R3_D)
V: 2 V/div. H: 2 ms/div.



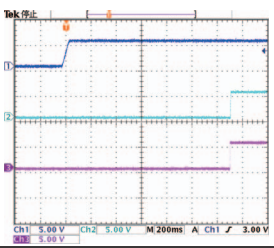
(8) Digital power start up 3
(start up after pressed Power ON SW)
Ch1: **TP518** (V+1R8_D)
V: 2 V/div. H: 2 ms/div.
Ch2: **TP519** (V+2R775_PMIC)
V: 2 V/div. H: 2 ms/div.
Ch3: **TP124** (V+2R775_D)
V: 2 V/div. H: 2 ms/div.
Ch4: **TP515** (V+1R1_VDDGP)
V: 1 V/div. H: 2 ms/div.



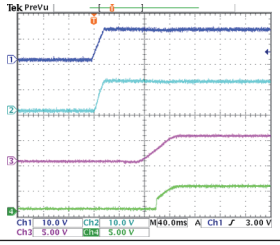
(9) Digital power start up 4
(start up after pressed Power ON SW)
Ch1: **TP518** (V+1R8_D)
V: 2 V/div. H: 10 ms/div.
Ch2: **TP517** (V+1R2_D)
V: 1 V/div. H: 10 ms/div.
Ch3: **TP520** (V+2R6_D)
V: 2 V/div. H: 10 ms/div.
Ch4: **TP522** (V+3R3_VDDA)
V: 2 V/div. H: 10 ms/div.



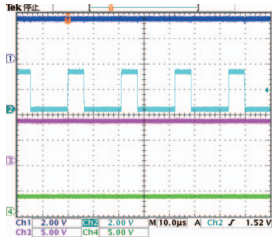
(10) USB power
(start up after pressed Power ON SW)
Ch1: **TP128** (V+5_D)
V: 5 V/div. H: 200 ms/div.
Ch2: **TP1807** (V+5_USB1)
V: 5 V/div. H: 200 ms/div.
Ch3: **TP1907** (V+5_USB3)
V: 5 V/div. H: 200 ms/div.



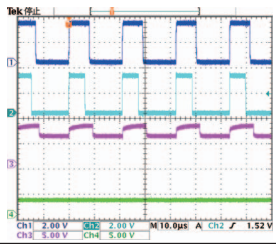
(11) LCD, LED power
(start up after pressed Power ON SW)
Ch1: **TP122** (V+12_D)
V: 10 V/div. H: 40 ms/div.
Ch2: **TP126** (V+12_LCD)
V: 10 V/div. H: 40 ms/div.
Ch3: **TP128** (V+5_D)
V: 5 V/div. H: 40 ms/div.
Ch4: **TP2625** (V+5_LED)
V: 5 V/div. H: 40 ms/div.



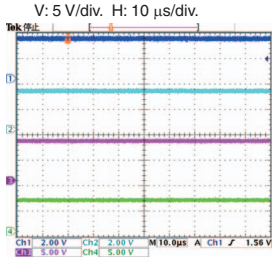
(12) LCD backlight control-BLUE
(backlight setting: blue, brightness setting 1)
Ch1: **R5337** (LCD_DIMMER_1)
V: 2 V/div. H: 10 µs/div.
Ch2: **R5348** (LCD_DIMMER_2)
V: 2 V/div. H: 10 µs/div.
Ch3: **TP5001/CN5008 pin 3** (BLED_W)
V: 5 V/div. H: 10 µs/div.
Ch4: **TP5174/CN5008 pin 2** (BLED_B)
V: 5 V/div. H: 10 µs/div.



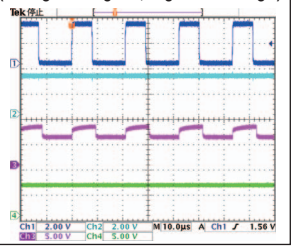
(backlight setting: blue, brightness setting 4)



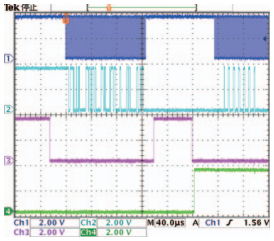
(13) LCD backlight control-RED
(backlight setting: red, brightness setting 1)
Ch1: **R5337** (LCD_DIMMER_1)
V: 2 V/div. H: 10 µs/div.
Ch2: **R5348** (LCD_DIMMER_2)
V: 2 V/div. H: 10 µs/div.
Ch3: **TP5001/CN5008 pin 3** (BLED_W)
V: 5 V/div. H: 10 µs/div.
Ch4: **TP5039/CN5008 pin 1** (BLED_R)
V: 5 V/div. H: 10 µs/div.



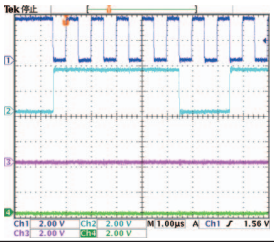
(backlight setting: red, brightness setting 4)



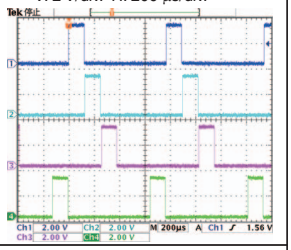
(14) LCD 2 control
(at normal operation (at LCD display))
Ch1: **TP5038/CN5006 pin 1** (LCD2_SCK)
V: 2 V/div. H: 40 µs/div.
Ch2: **TP5037/CN5006 pin 6** (LCD2_SDA)
V: 2 V/div. H: 40 µs/div.
Ch3: **TP5041/CN5006 pin 8** (LCD2_CS0)
V: 2 V/div. H: 40 µs/div.
Ch4: **TP5040/CN5006 pin 9** (LCD2_CD)
V: 2 V/div. H: 40 µs/div.



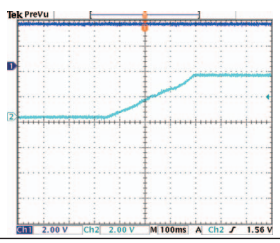
(Expansion)
Ch1: **TP5038/CN5006 pin 1** (LCD2_SCK)
V: 2 V/div. H: 1 µs/div.
Ch2: **TP5037/CN5006 pin 6** (LCD2_SDA)
V: 2 V/div. H: 1 µs/div.
Ch3: **TP5041/CN5006 pin 8** (LCD2_CS0)
V: 2 V/div. H: 1 µs/div.
Ch4: **TP5040/CN5006 pin 9** (LCD2_CD)
V: 2 V/div. H: 1 µs/div.



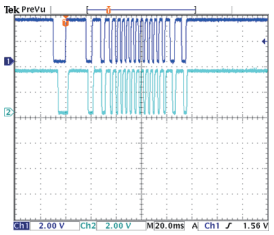
(15) Grid control
(at normal operation)
Ch1: **TP5058** (GRID1)
V: 2 V/div. H: 200 µs/div.
Ch2: **TP5059** (GRID2)
V: 2 V/div. H: 200 µs/div.
Ch3: **TP5060** (GRID3)
V: 2 V/div. H: 200 µs/div.
Ch4: **TP5057** (GRID6)
V: 2 V/div. H: 200 µs/div.



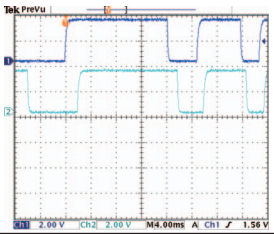
(18) Volume 1
(Left (MIN) → Right (MAX))
Ch1: **TP5043** (V+3R3_AD)
V: 2 V/div. H: 100 ms/div.
Ch2: **TP5120** (DEPTH)
V: 2 V/div. H: 100 ms/div.



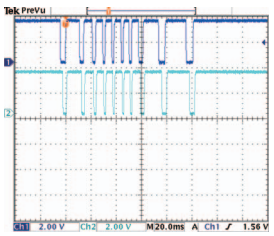
(16) Encoder 1
(at right rotation)
Ch1: **TP5129** (BEAT_1)
V: 2 V/div. H: 20 ms/div.
Ch2: **TP5130** (BEAT_2)
V: 2 V/div. H: 20 ms/div.



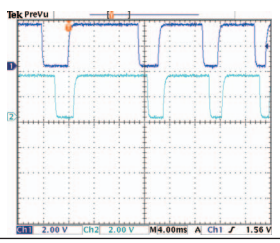
(Expansion)
Ch1: **TP5129** (BEAT_1)
V: 2 V/div. H: 4 ms/div.
Ch2: **TP5130** (BEAT_2)
V: 2 V/div. H: 4 ms/div.



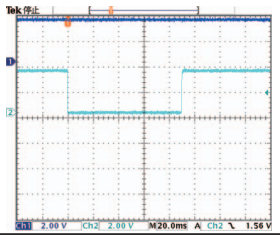
(17) Encoder 2
(at AUTO BEAT LOOP right rotation)
Ch1: **TP5123** (A-LOOP_1)
V: 2 V/div. H: 20 ms/div.
Ch2: **TP5126** (A-LOOP_2)
V: 2 V/div. H: 20 ms/div.



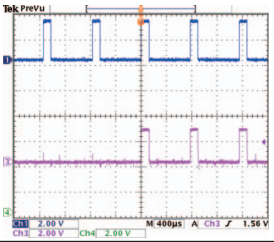
(Expansion)
Ch1: **TP5123** (A-LOOP_1)
V: 2 V/div. H: 4 ms/div.
Ch2: **TP5126** (A-LOOP_2)
V: 2 V/div. H: 4 ms/div.



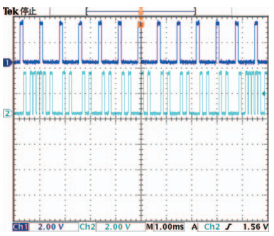
(19) Direct key
(at pressed key)
Ch1: **TP5133** (V+3R3_EUP)
V: 2 V/div. H: 20 ms/div.
Ch2: **R5320** (PLAY KEY)
V: 2 V/div. H: 20 ms/div.



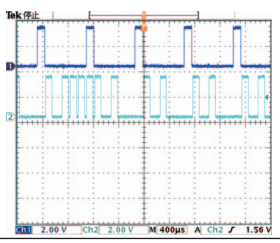
(20) Matrix key
(at pressed SYNC key)
Ch1: **TP5061** (GRID4)
V: 2 V/div. H: 400 µs/div.
Ch2: **D5047 cathode** (KEY1)
V: 2 V/div. H: 400 µs/div.



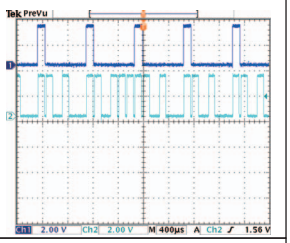
(21) LED
(SYNC LED(Slight lighting))
Ch1: **TP5061** (GRID4)
V: 2 V/div. H: 1 ms/div.
Ch2: **TP5068** (LED1)
V: 2 V/div. H: 1 ms/div.



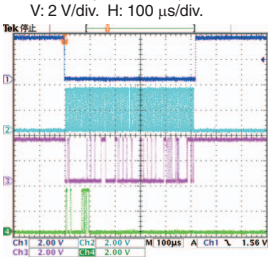
(Expansion)
Ch1: **TP5061** (GRID4)
V: 2 V/div. H: 400 µs/div.
Ch2: **TP5068** (LED1)
V: 2 V/div. H: 400 µs/div.



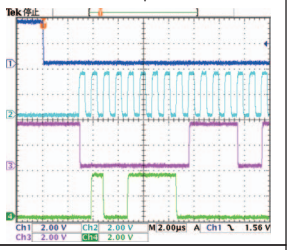
(22) LED
(SYNC LED (lit))
Ch1: **TP5061** (GRID4)
V: 2 V/div. H: 400 µs/div.
Ch2: **TP5068** (LED1)
V: 2 V/div. H: 400 µs/div.



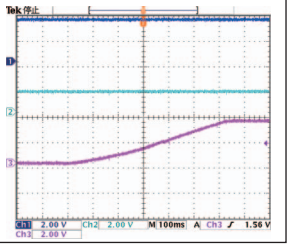
(23) Communications between microcomputers
(at normal operation)
Ch1: **TP6221** (SUB_SS3)
V: 2 V/div. H: 100 µs/div.
Ch2: **TP6220** (SUB_SCLK)
V: 2 V/div. H: 100 µs/div.
Ch3: **TP6218** (SUB_MISO)
V: 2 V/div. H: 100 µs/div.
Ch4: **TP6219** (SUB_MOSI)
V: 2 V/div. H: 100 µs/div.



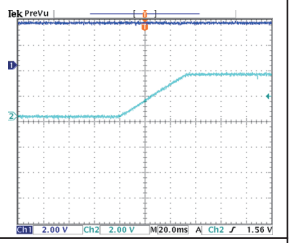
(Expansion)
Ch1: **TP6221** (SUB_SS3)
V: 2 V/div. H: 2 µs/div.
Ch2: **TP6220** (SUB_SCLK)
V: 2 V/div. H: 2 µs/div.
Ch3: **TP6218** (SUB_MISO)
V: 2 V/div. H: 2 µs/div.
Ch4: **TP6219** (SUB_MOSI)
V: 2 V/div. H: 2 µs/div.



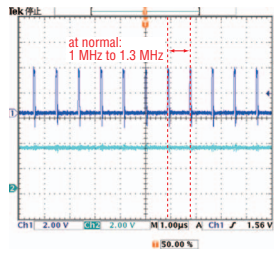
(24) Tempo slider
(at TEMPO + → - operating)
Ch1: **CN5004 pin 4** (V+3R3_AD)
V: 2 V/div. H: 100 ms/div.
Ch2: **CN5004 pin 2** (ADCT2)
V: 2 V/div. H: 100 ms/div.
Ch3: **CN5004 pin 3** (ADIN2)
V: 2 V/div. H: 100 ms/div.



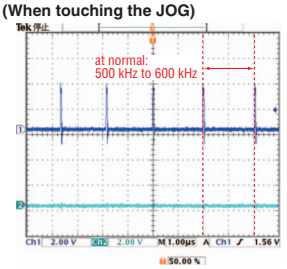
25 **Cross fader**
(at CH1(Left) → CH2(Right) operating)
Ch1: **CN5005 pin 1** (V+3R3_AD)
V: 2 V/div. H: 20 ms/div.
Ch2: **CN5005 pin 2** (CRFD)
V: 2 V/div. H: 20 ms/div.



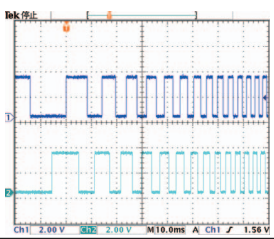
26 **JOG touch signal**
(When not touching the JOG)
Ch1: **TP9059/TP9102** (GP2)
V: 2 V/div. H: 1 µs/div.
Ch2: **JH5001 pin 4** (JOGT_SW)
V: 2 V/div. H: 1 µs/div.



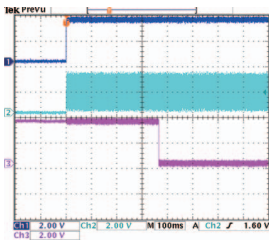
(When touching the JOG)



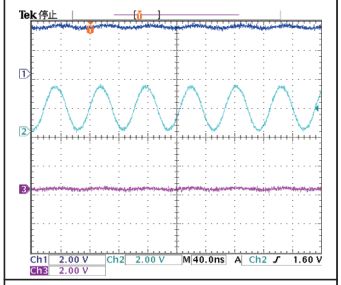
27 **JOG rotate signal**
(Forward)
Ch1: **JH5001 pin 3** (JOGR_1)
V: 2 V/div. H: 10 ms/div.
Ch2: **JH5001 pin 2** (JOGR_2)
V: 2 V/div. H: 10 ms/div.



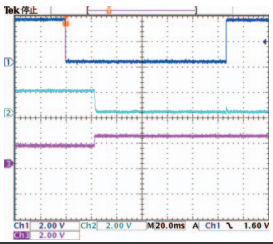
28 **SUB UCOM start up**
(start up after pressed Power ON SW)
Ch1: **TP6226/CN6003 pin 24** (V+3R3_D)
V: 2 V/div. H: 100 ms/div.
Ch2: **X6001 pin 1** (XOUT)
V: 2 V/div. H: 100 ms/div.
Ch3: **TP6258/CN6003 pin 23** (SUB_RST_N)
V: 2 V/div. H: 100 ms/div.



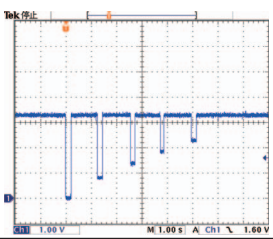
(Expansion)
Ch1: **TP6226/CN6003 pin 24** (V+3R3_D)
V: 2 V/div. H: 40 ns/div.
Ch2: **X6001 pin 1** (XOUT)
V: 2 V/div. H: 40 ns/div.
Ch3: **TP6258/CN6003 pin 23** (SUB_RST_N)
V: 2 V/div. H: 40 ns/div.



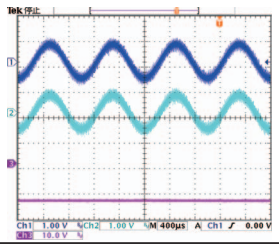
29 **Power indicator control**
(start up after pressed Power ON SW)
Ch1: **CN6002 pin 7** (PWR_SW)
V: 2 V/div. H: 20 ms/div.
Ch2: **TP6268/CN6002 pin 9** (PWR_LED_RED)
V: 2 V/div. H: 20 ms/div.
Ch3: **TP6267/CN6002 pin 8** (PWR_LED_GRN)
V: 2 V/div. H: 20 ms/div.



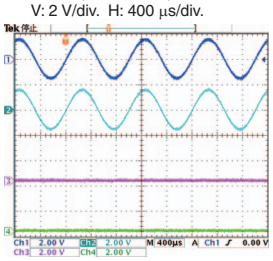
30 **AD key inport**
(voltage at pressed MIDI: 0 V)
(voltage at pressed USB: 0.82 V)
(voltage at pressed Wi-Fi: 1.38 V)
(voltage at pressed INFO: 1.85 V)
(voltage at pressed TIME: 2.29 V)
Ch1: **TP6196** (ADKEY_2)
V: 1 V/div. H: 1 s/div.



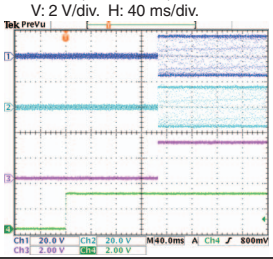
31 **Master Audio output**
(Volume Center, CHFD MAX)
(1 kHz 0 db sine wave)
Ch1: **CN8501 pin 39** (MASTER_R)
V: 1 V/div. H: 400 µs/div.
Ch2: **CN8501 pin 34** (MASTER_L)
V: 1 V/div. H: 400 µs/div.
Ch3: **J8519** (MAS_MUTE)
V: 10 V/div. H: 400 µs/div.



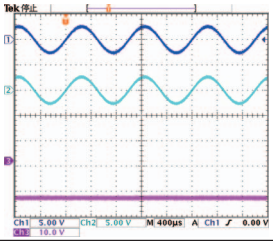
32 **Audio input terminal 2/ switch**
(1 Vp-p Input/Line Input)
Ch1: **CN8501 pin 26** (INPUT_2CH_R)
V: 2 V/div. H: 400 µs/div.
Ch2: **CN8501 pin 22** (INPUT_2CH_L)
V: 2 V/div. H: 400 µs/div.
Ch3: **J8507** (SW_AMP_SEL_2CH)
V: 2 V/div. H: 400 µs/div.
Ch4: **J8572** (SW_IN2CH)
V: 2 V/div. H: 400 µs/div.



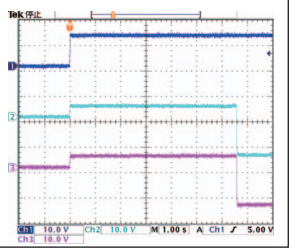
(at SW Line → PHONO operating)
Ch1: **CN8501 pin 26** (INPUT_2CH_R)
V: 20 V/div. H: 40 ms/div.
Ch2: **CN8501 pin 22** (INPUT_2CH_L)
V: 20 V/div. H: 40 ms/div.
Ch3: **J8507** (SW_AMP_SEL_2CH)
V: 2 V/div. H: 40 ms/div.
Ch4: **J8572** (SW_IN2CH)
V: 2 V/div. H: 40 ms/div.



33 **HP Audio output**
(Volume Center, CHFD MAX)
(1 kHz 0 db sine wave)
Ch1: **JH7801 pin 5** (HP_R)
V: 5 V/div. H: 400 µs/div.
Ch2: **JH7801 pin 2** (HP_L)
V: 5 V/div. H: 400 µs/div.
Ch3: **JH7801 pin 4** (HP_MUTE)
V: 10 V/div. H: 400 µs/div.



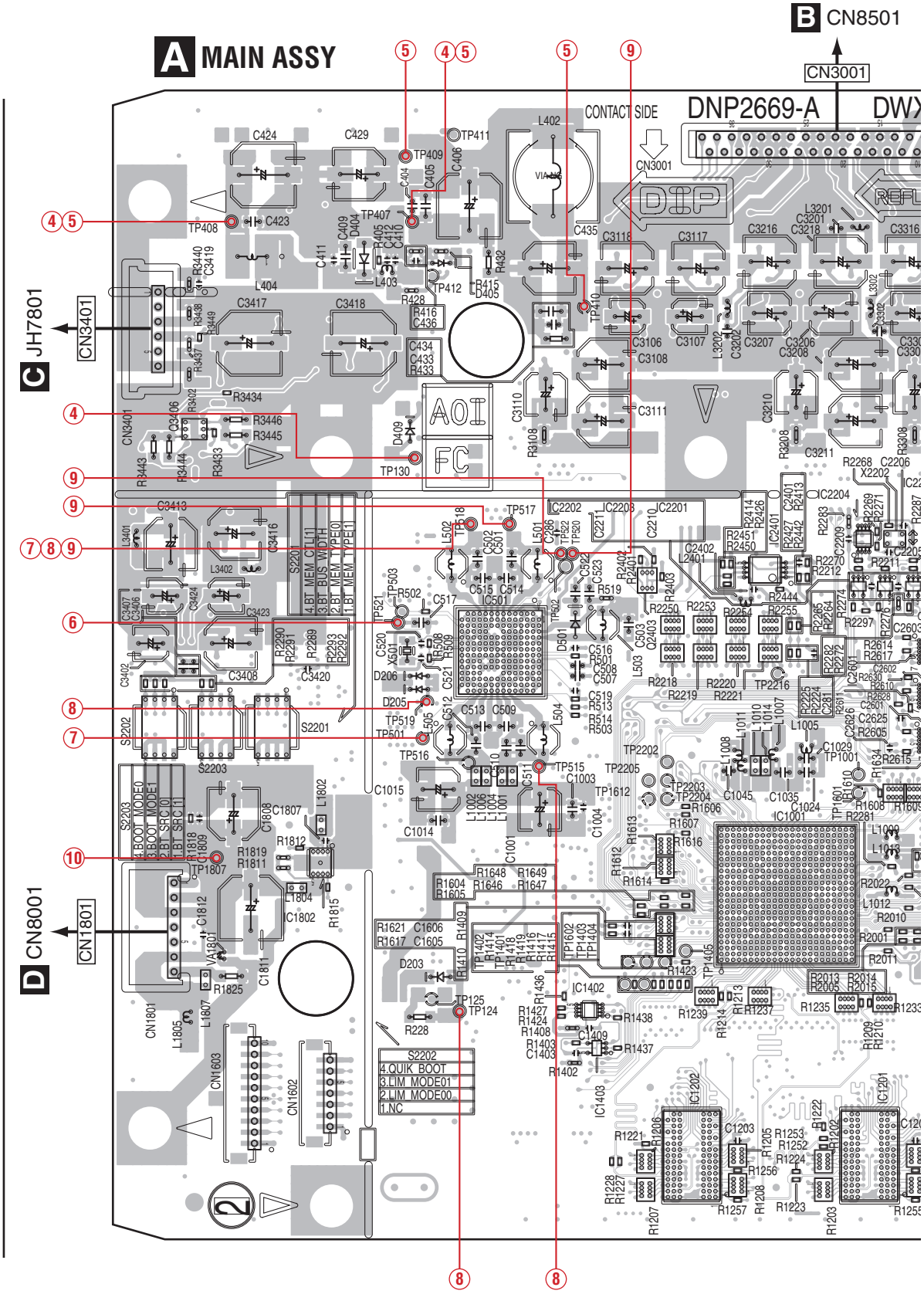
34 **MUTE**
(start up after pressed Power ON SW)
Ch1: **TP122** (V+12_D)
V: 10 V/div. H: 1 s/div.
Ch2: **J8519** (MAS_MUTE)
V: 10 V/div. H: 1 s/div.
Ch3: **JH7801 pin 4** (HP_MUTE)
V: 10 V/div. H: 1 s/div.



11. PCB CONNECTION DIAGRAM

11.1 MAIN ASSY

SIDE A

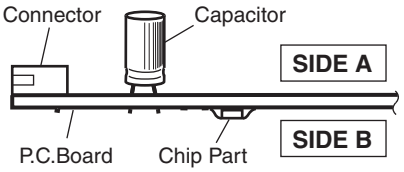


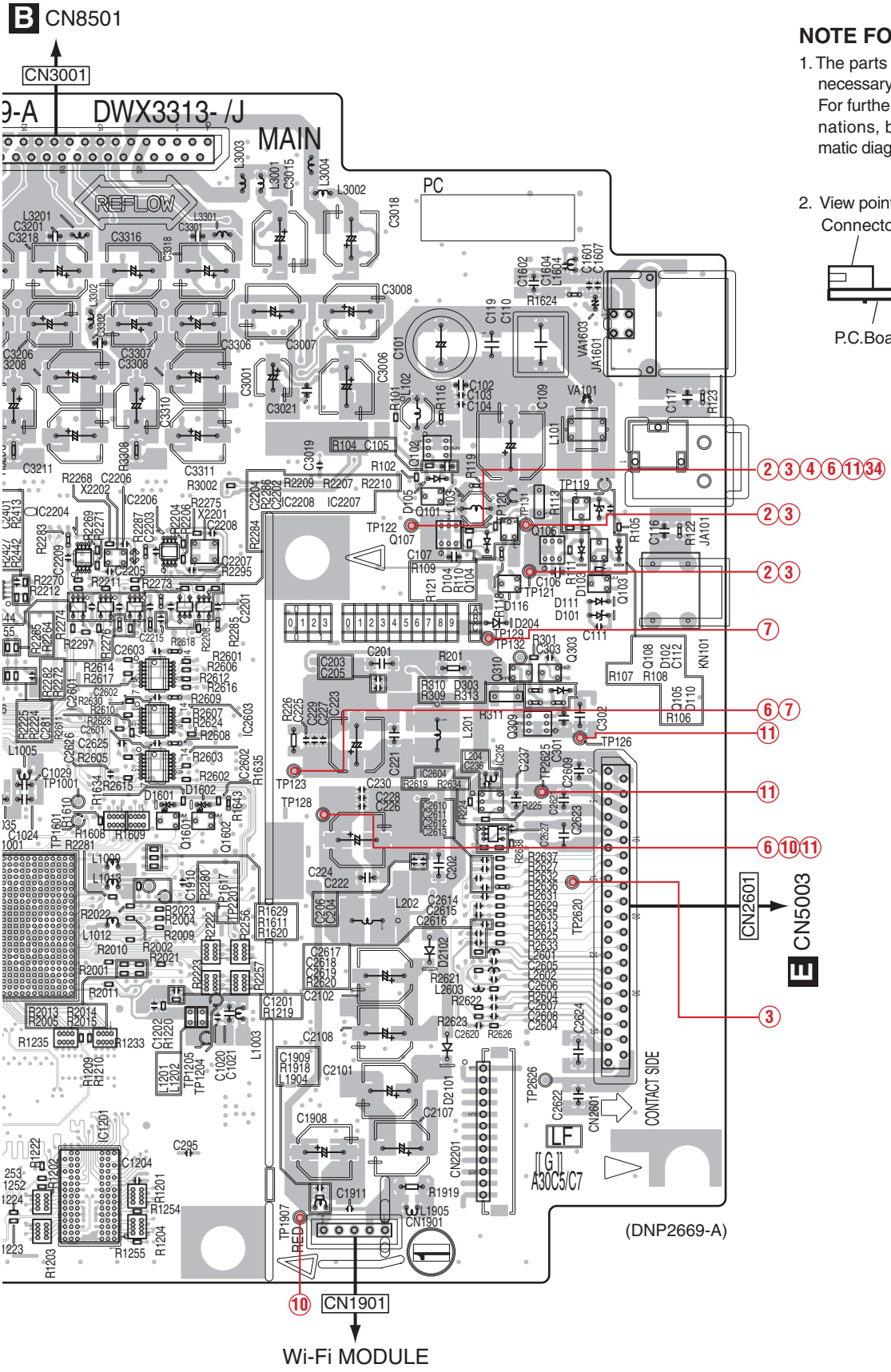
SIDE A

NOTE FOR PCB DIAGRAMS :

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

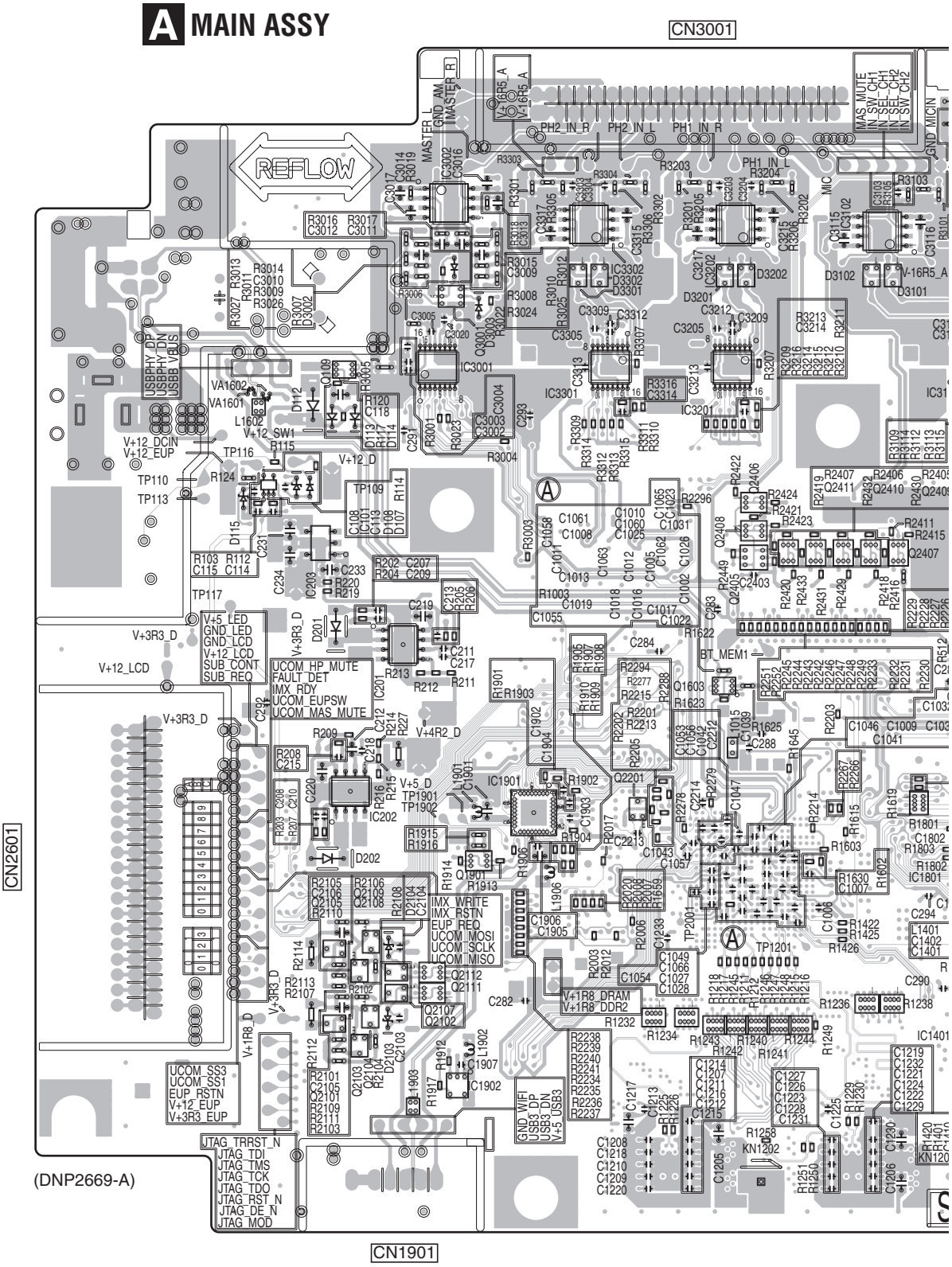
2. View point of PCB diagrams.



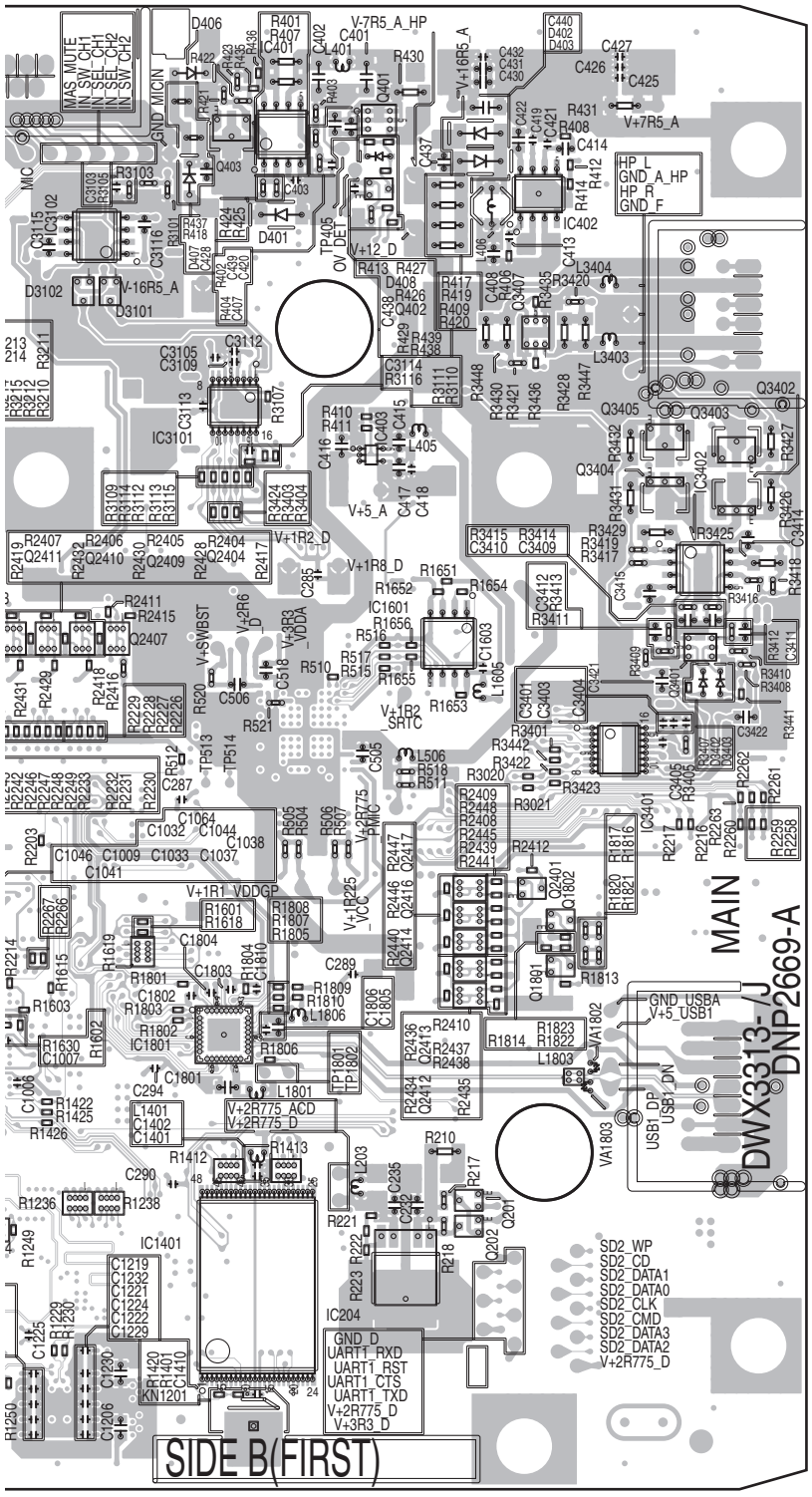


SIDE B

A MAIN ASSY



SIDE B



Q403 Q401
IC401

IC3002 Q402
IC3302 IC402
IC3202 IC3102

Q3001 Q3407

IC3001 IC3301 IC3101
Q109 IC3201
Q3405
IC403 Q3403
Q3404
Q3402

IC101 IC3402
Q2406

Q2408 IC1601
IC203 Q2411 Q2409 Q2407
Q2405 Q2410 Q2404 Q3401

IC201 IC3401

Q1603

Q2417 Q2401
Q2416 Q1802
IC202 Q2414
Q2201
IC1901 Q2413 Q1801
Q2412

Q1901
IC1801

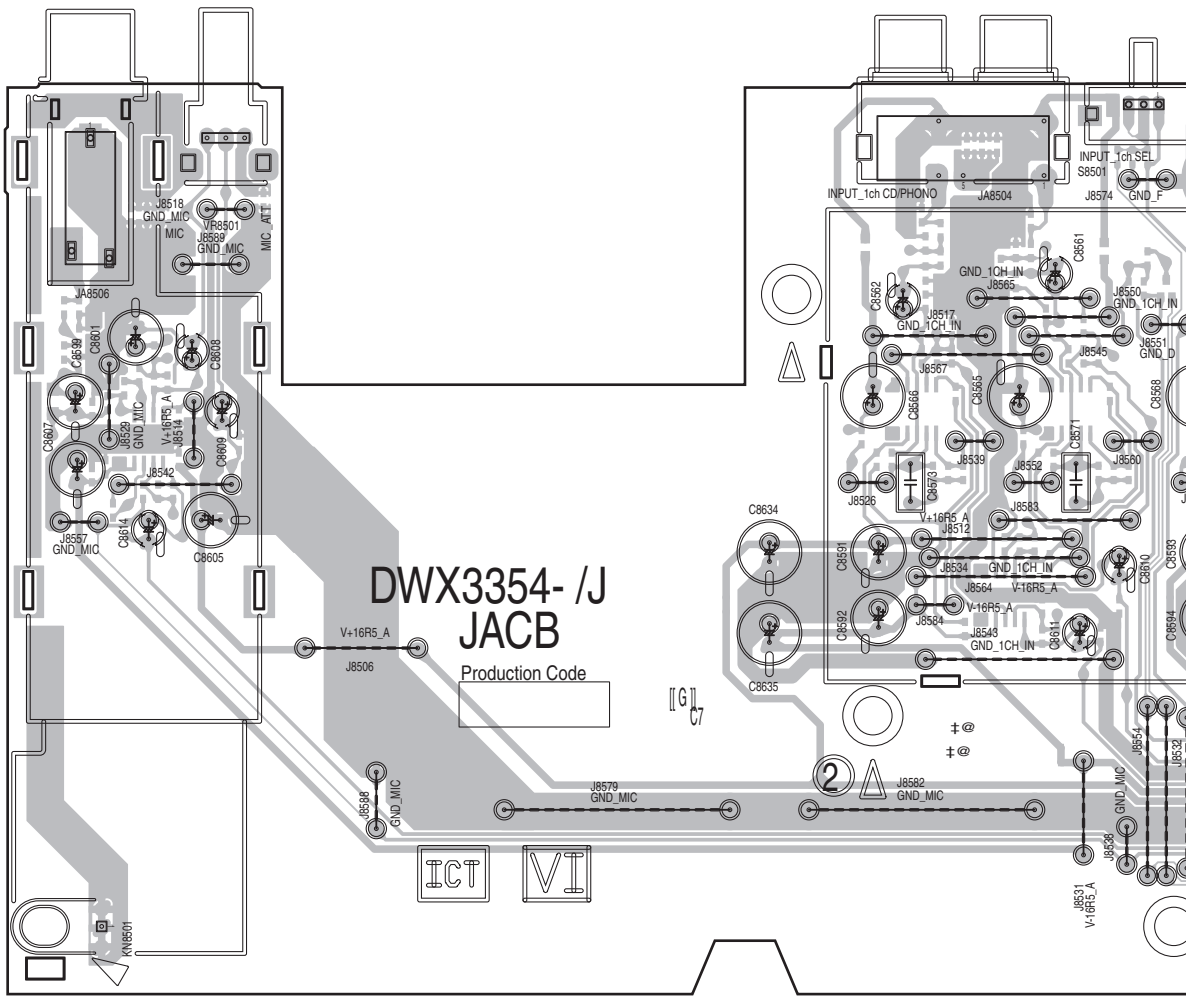
Q2109
Q2105
Q2108 Q2107 Q2112
Q2102 Q2111 Q201
Q2104 Q202
Q2101
Q2103
IC1401

IC1902

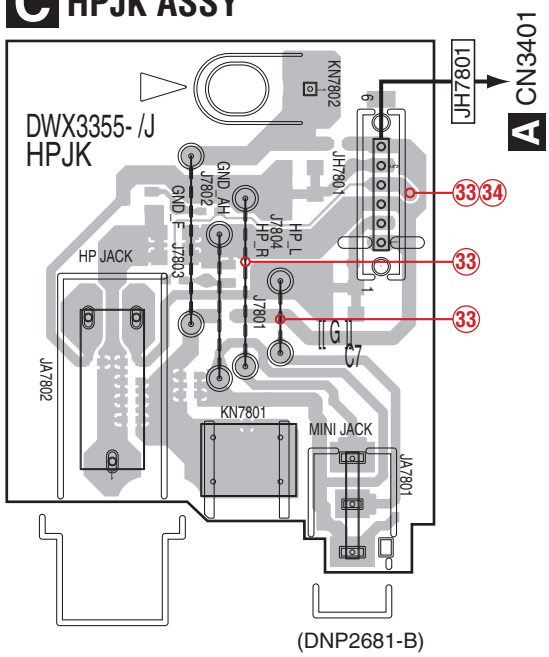
11.2 JACB, HPJK and USBB ASSYS

SIDE A

B JACB ASSY

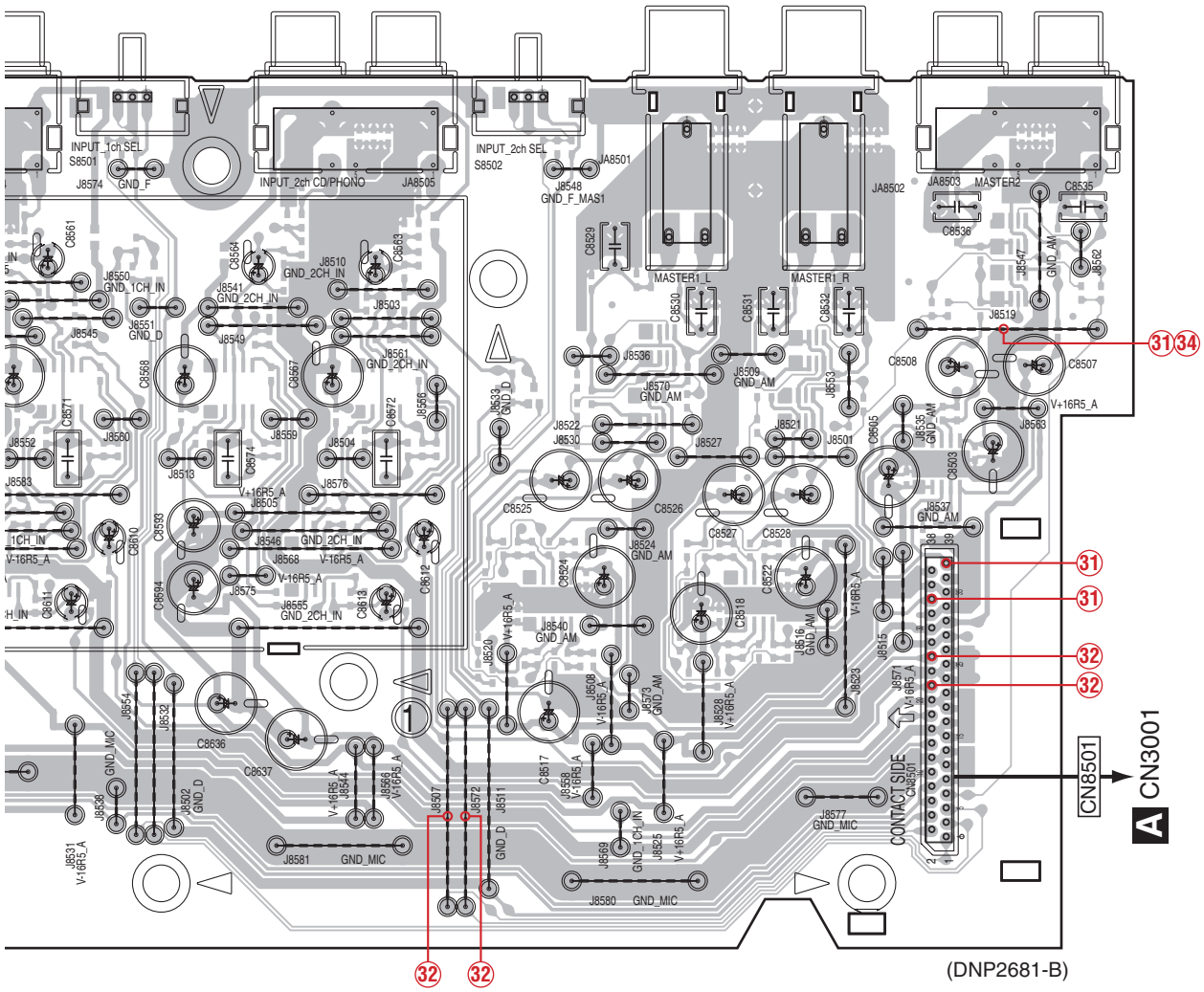


C HPJK ASSY

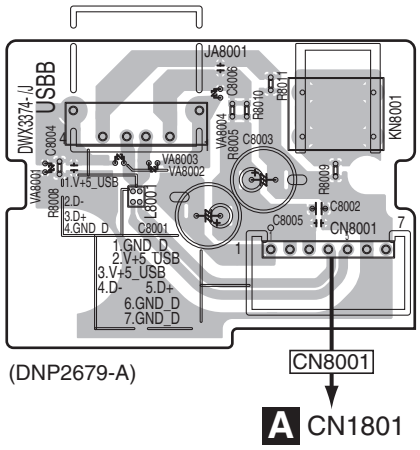


B C

SIDE A

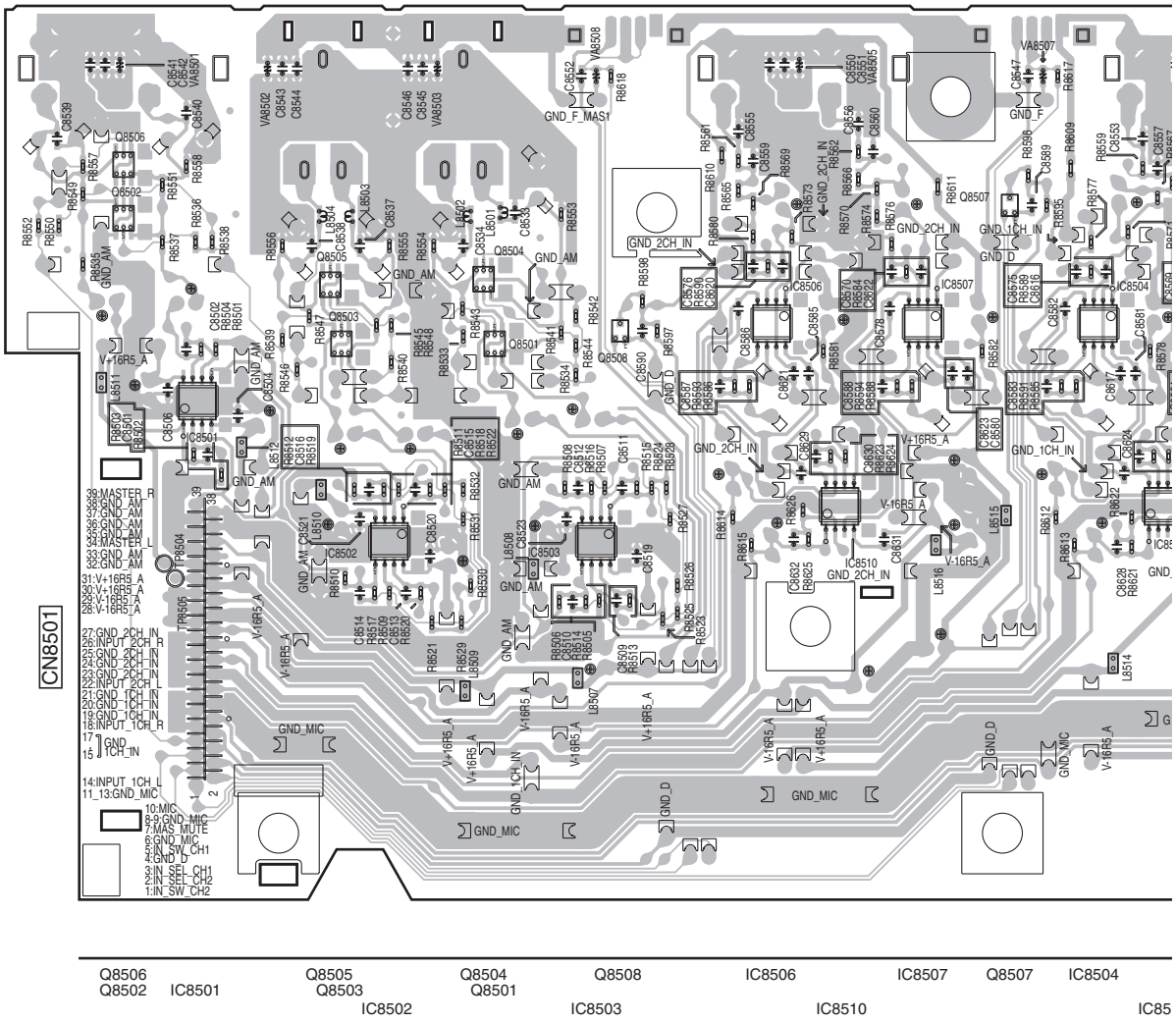


D USBB ASSY

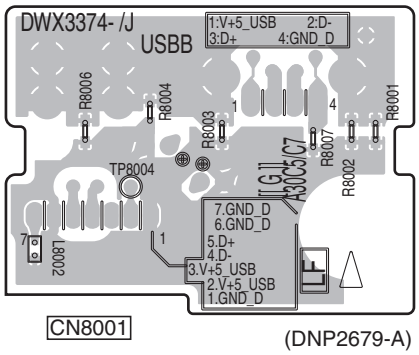


SIDE B

B JACB ASSY

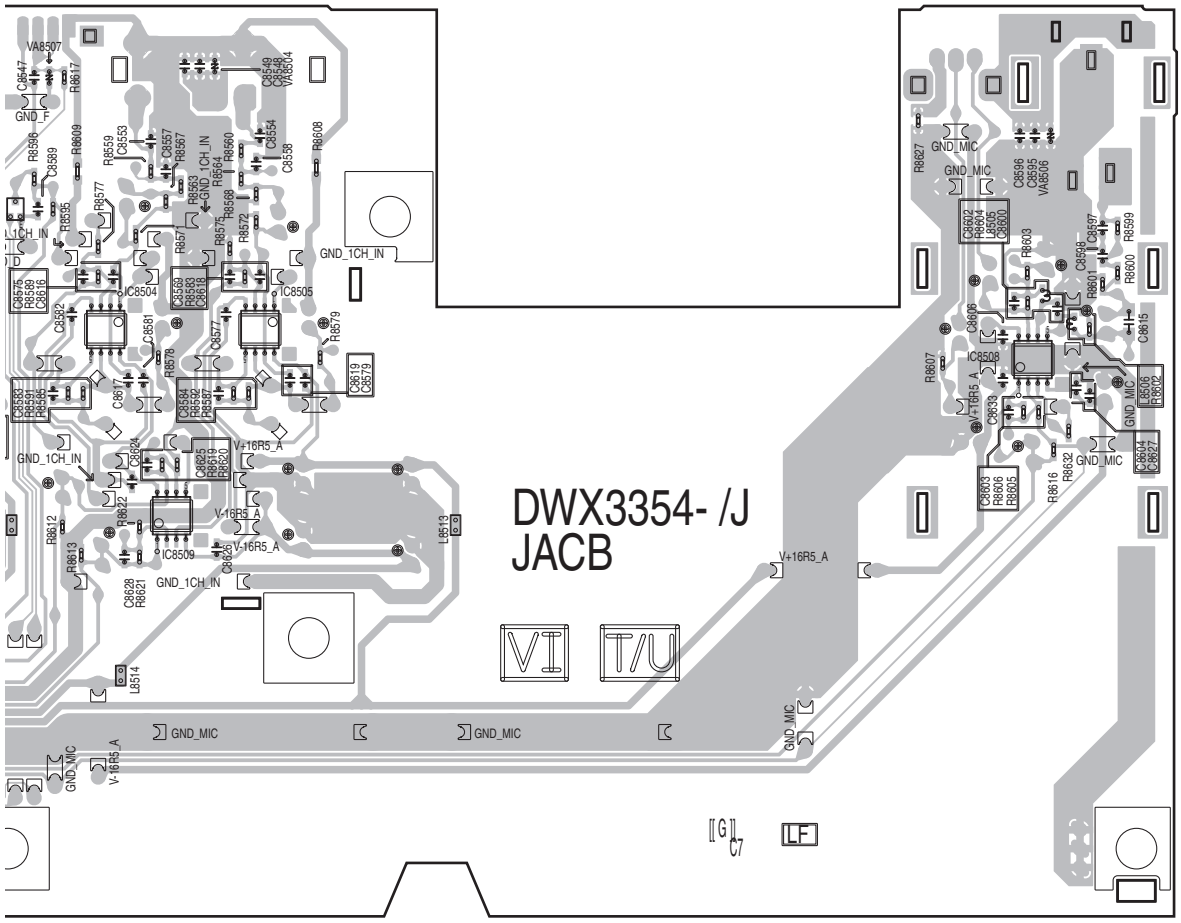


D USBB ASSY



(DNP2679-A)

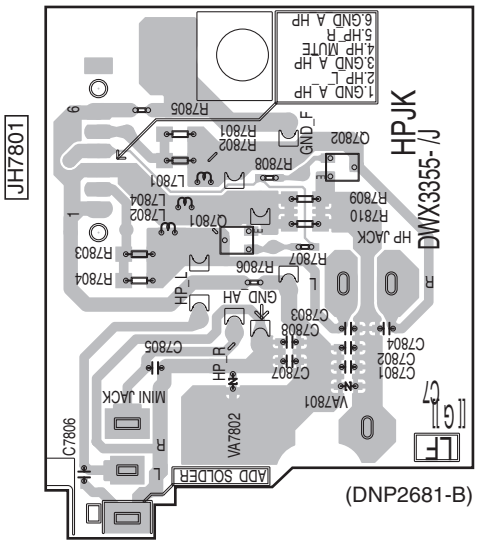
SIDE B



8507 IC8504 IC8505 IC8508

IC8509

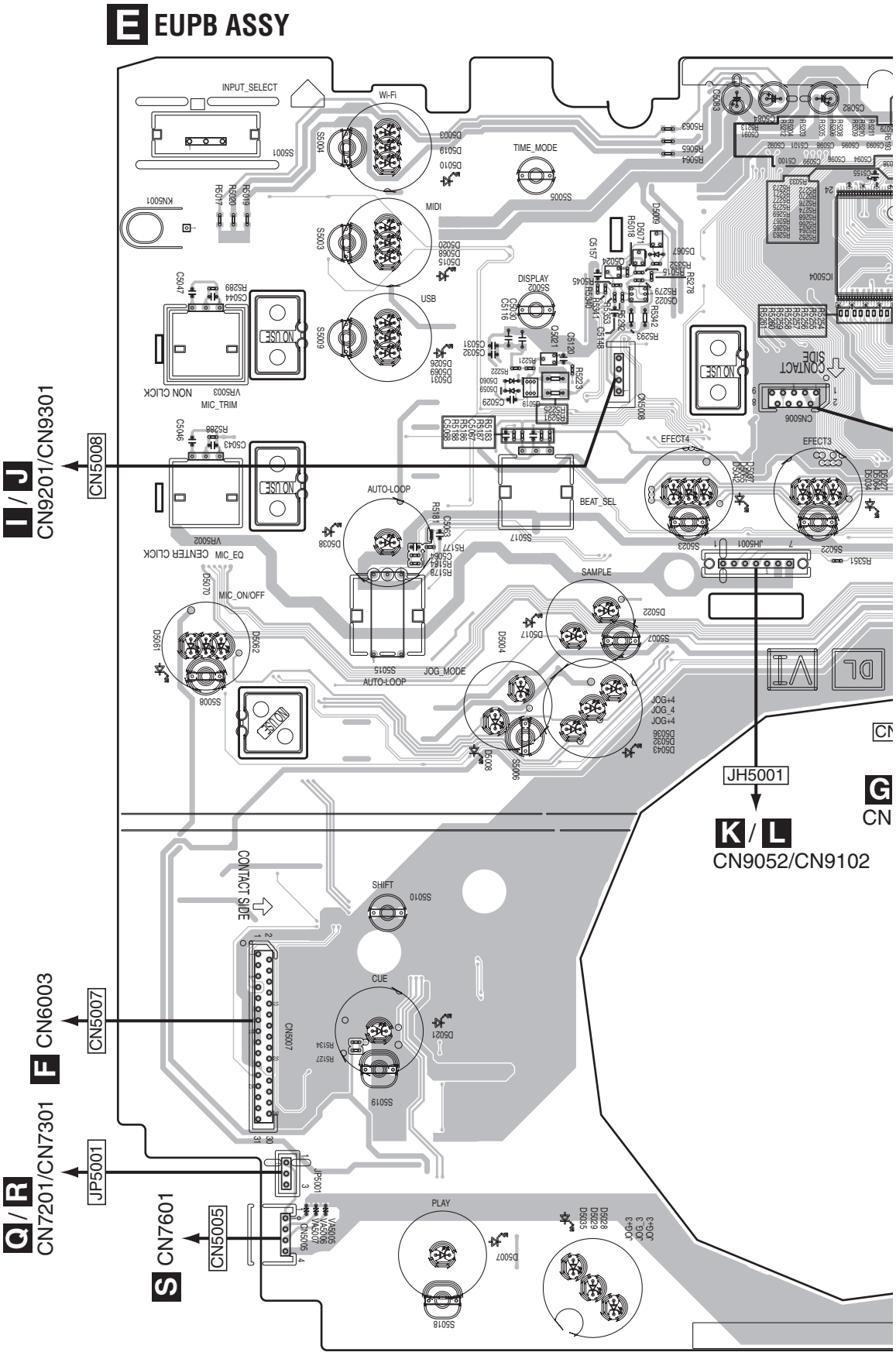
C HPJK ASSY



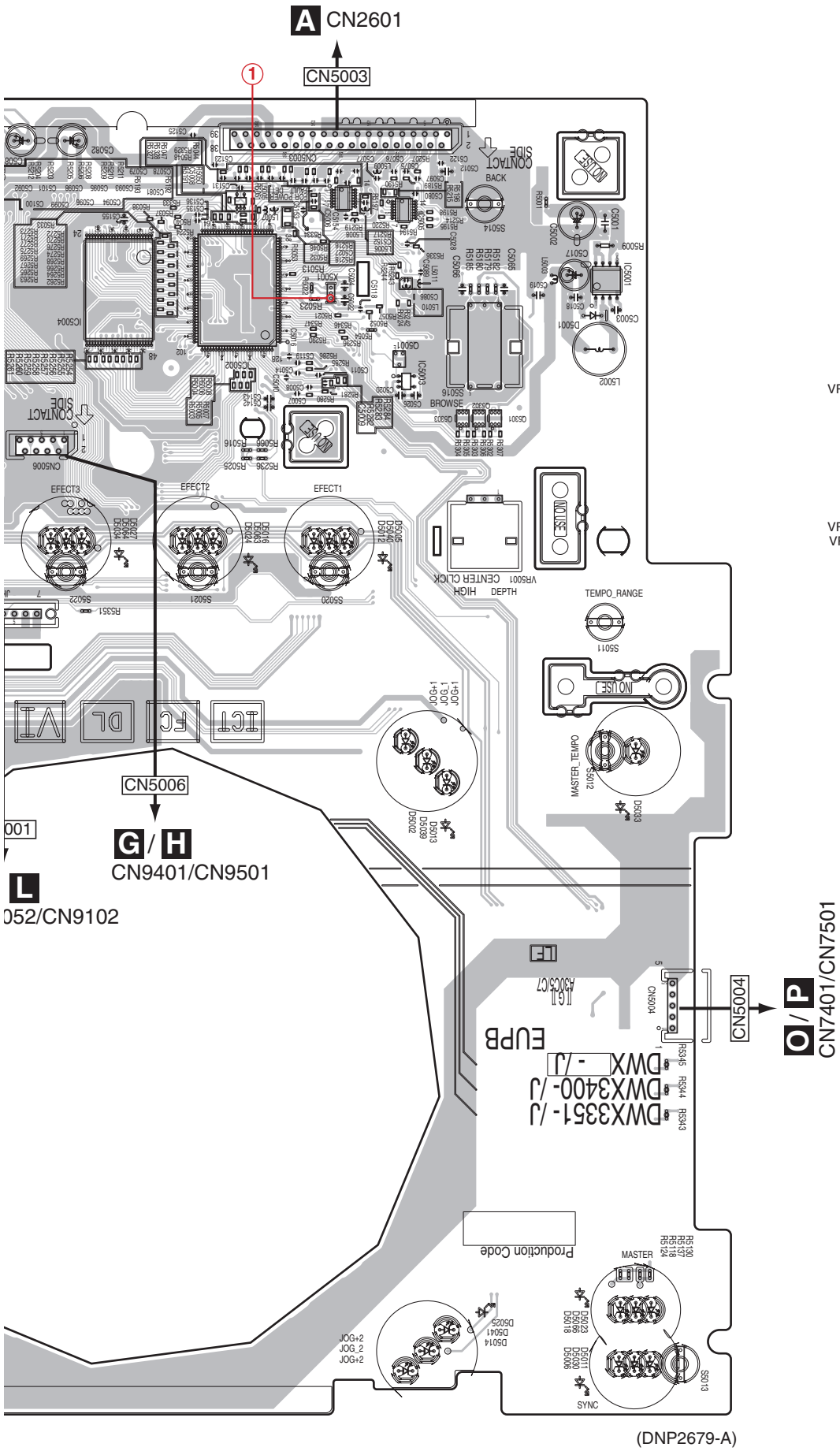
Q7801 Q7802

11.3 EUPB ASSY

SIDE A



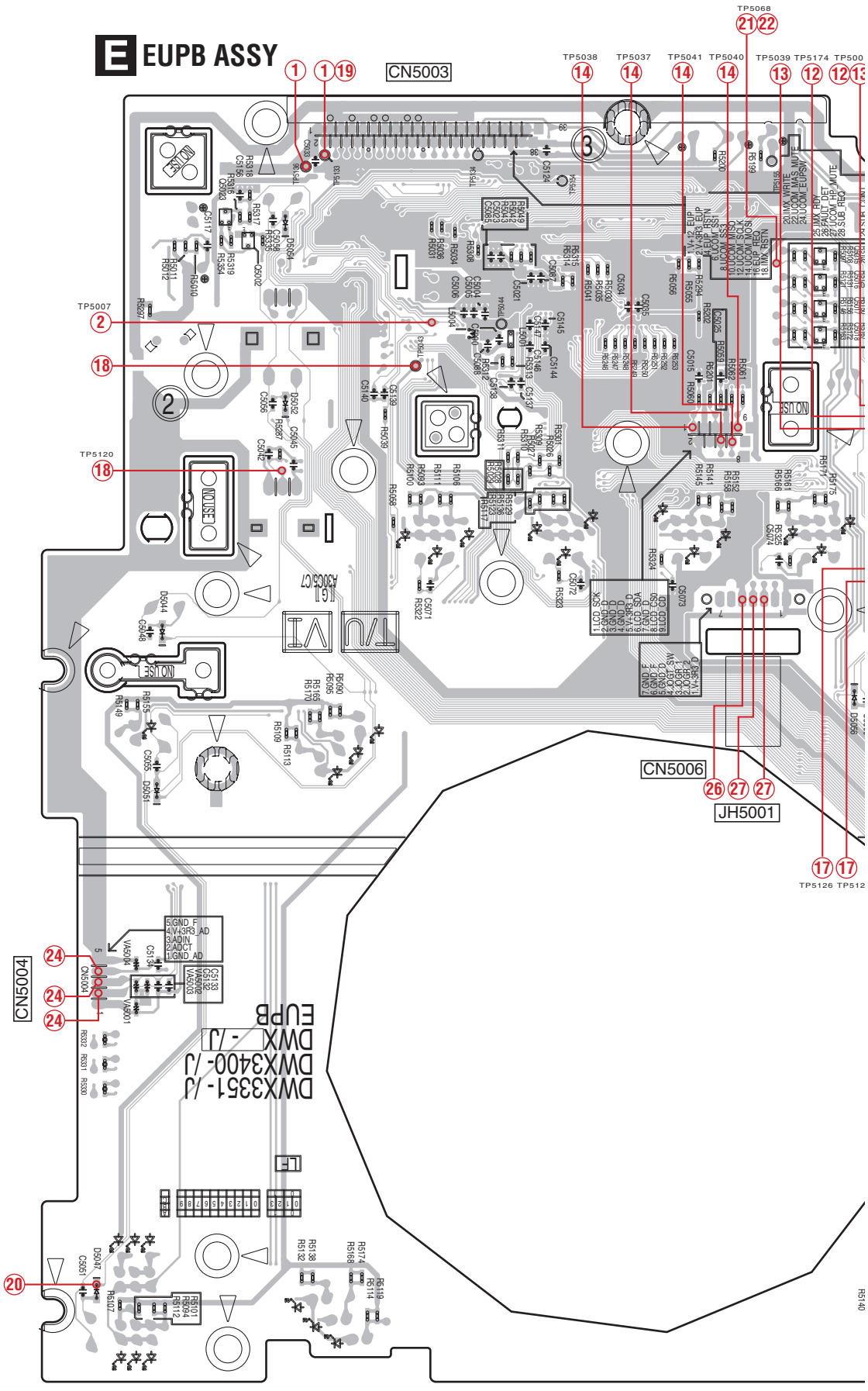
SIDE A



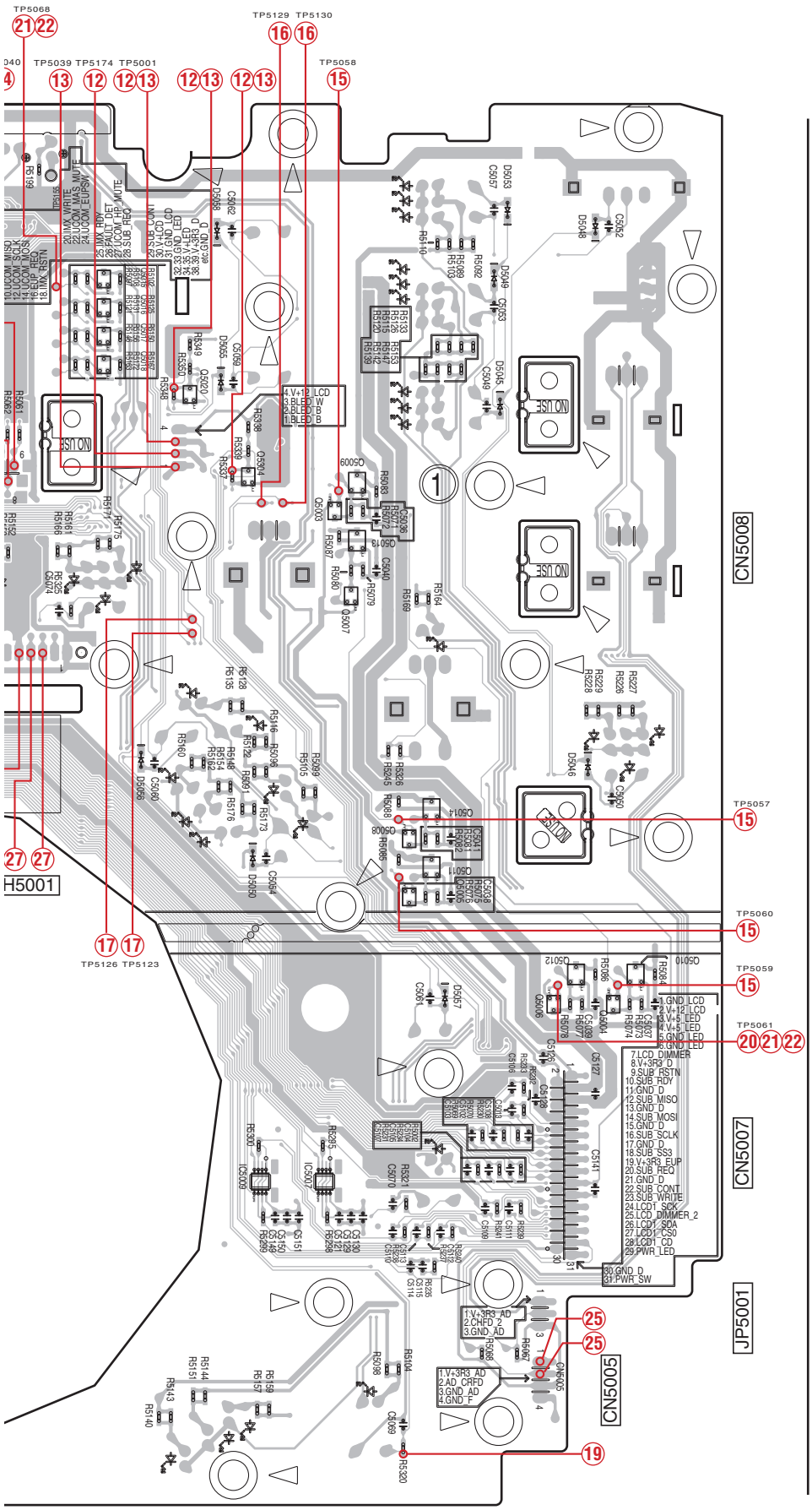
IC5008 IC5006 IC5005
IC5001 IC5004 IC5002
Q5024
Q5022 Q5001
VR5003 IC5003
Q5021 Q5031 Q5032
Q5019 Q5033
VR5001 VR5002

SIDE B

E EUPB ASSY



SIDE B

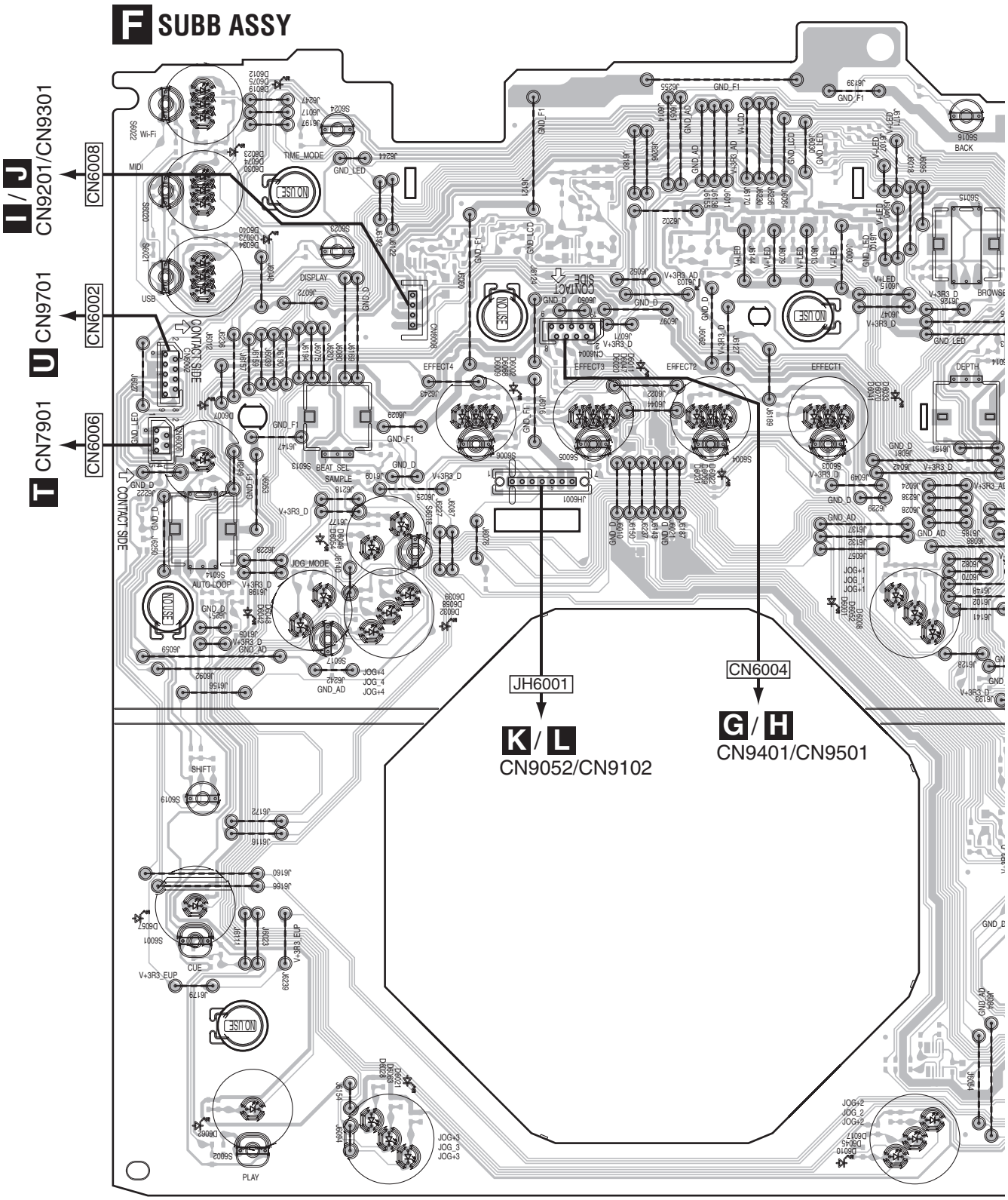


(DNP2679-A)

11.4 SUBB ASSY

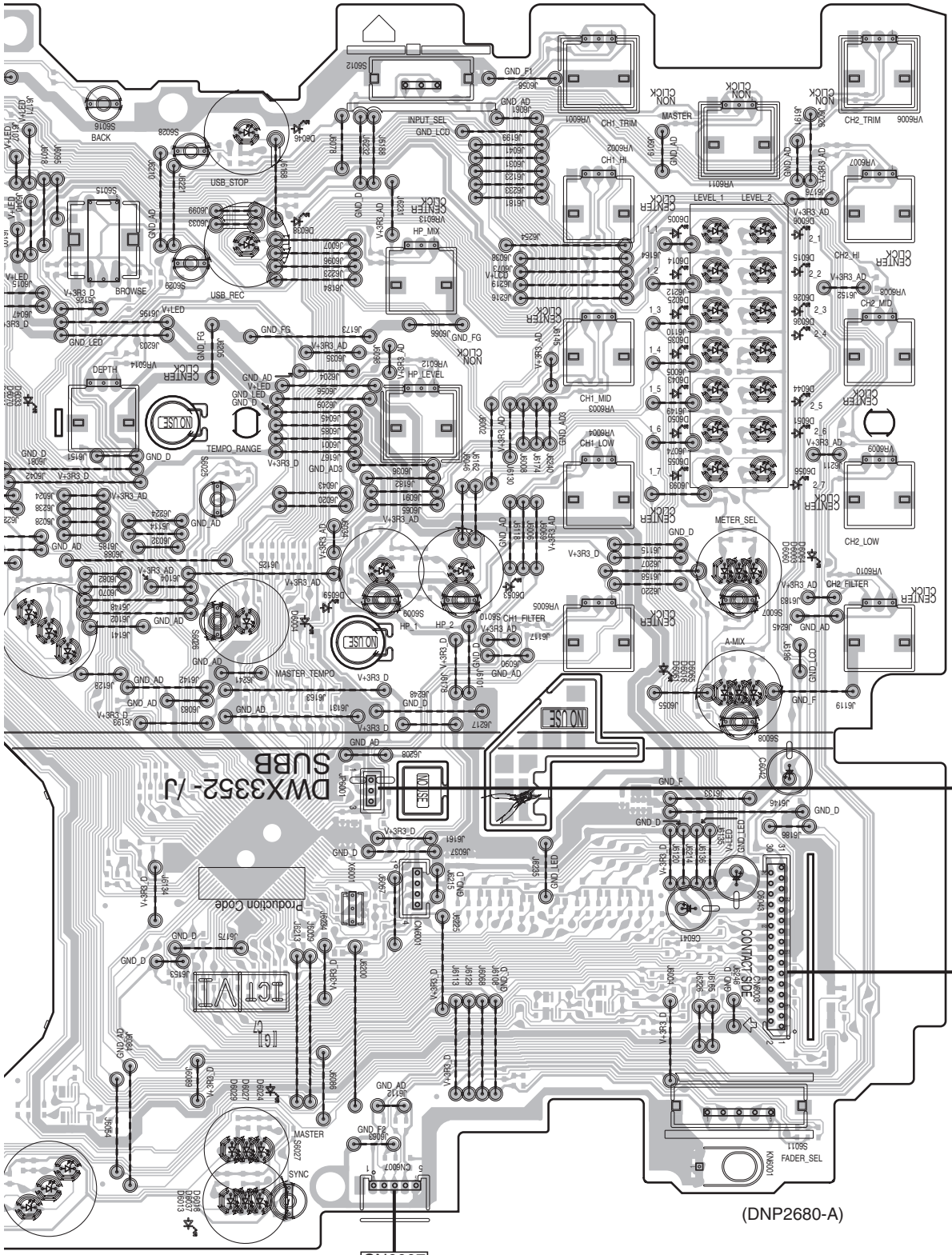
SIDE A

VR6104



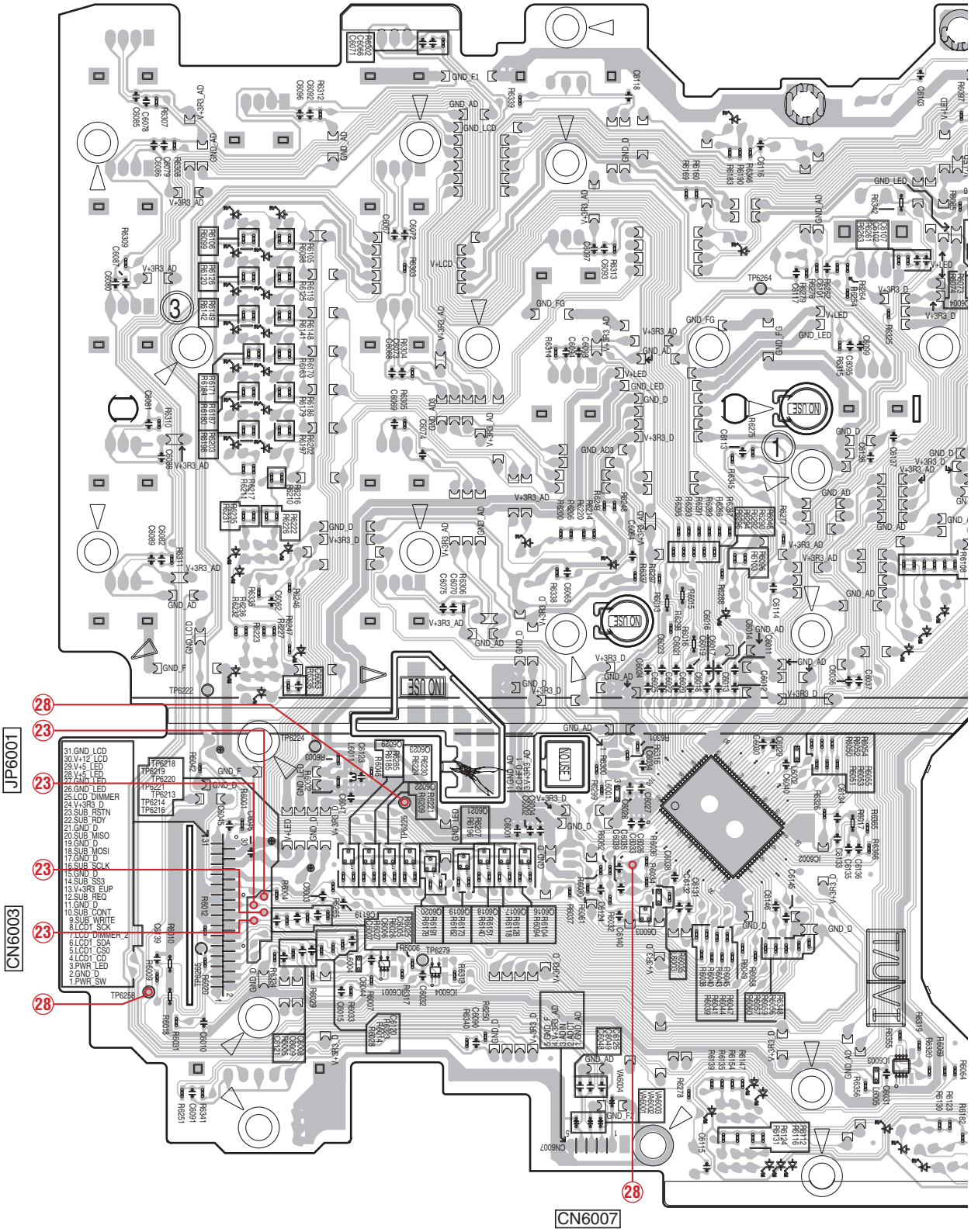
SIDE A

VR6104 VR6103 VR6102 VR6001 | VR6005 VR6006 | VR6010



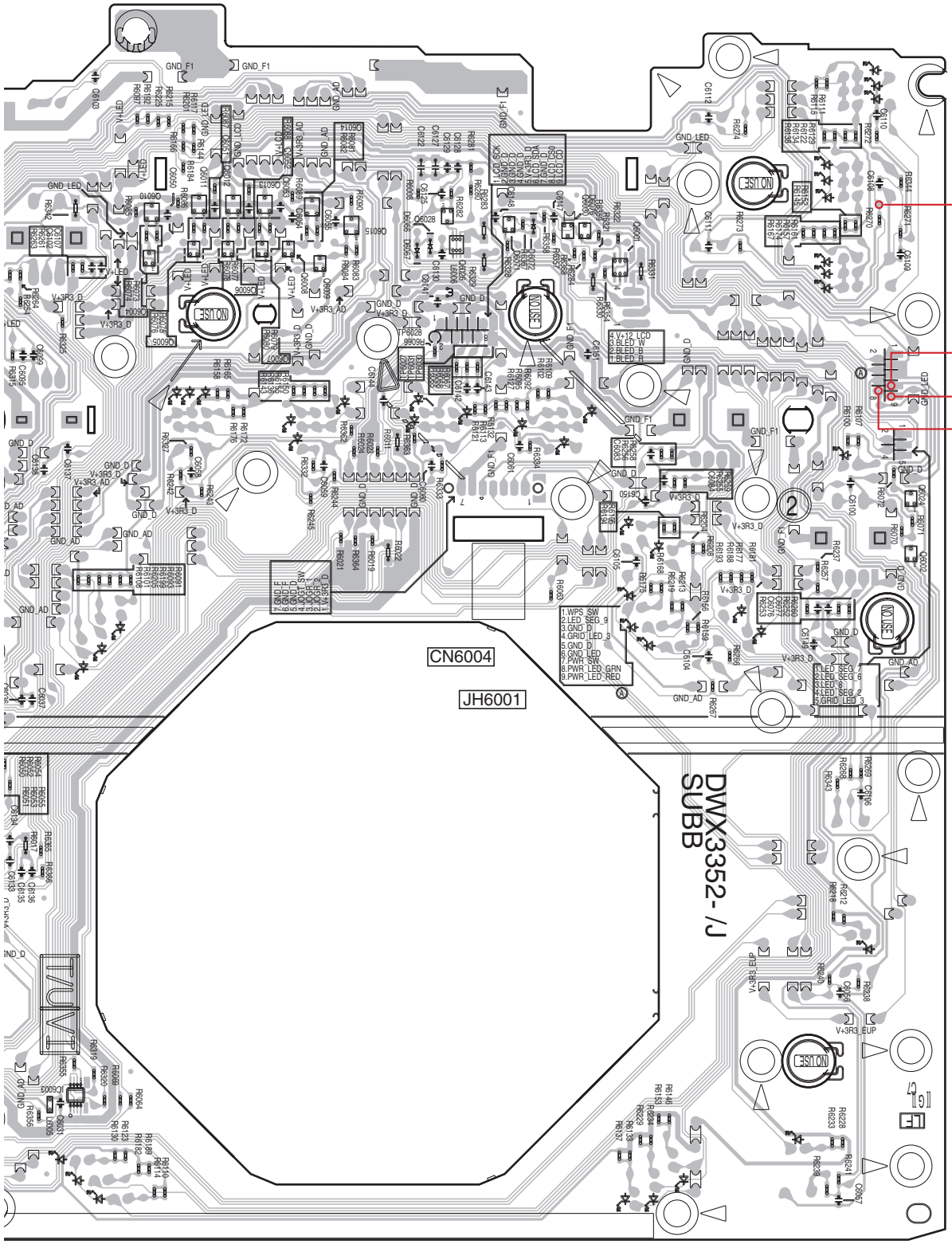
SIDE B

F SUBB ASSY



SIDE B

IC6003 Q6010 Q6004 Q6015 Q6009 Q6028 Q6026 Q6030 Q6001 Q6024 Q6002



(DNP2680-A)

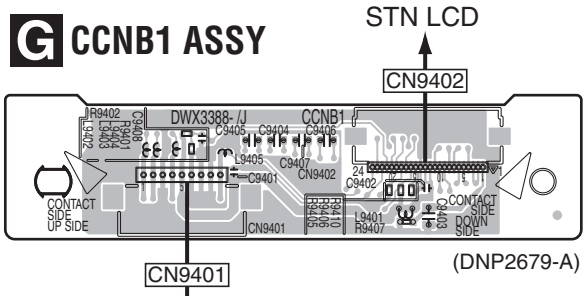
11.5 CCNB1, CCNB2, BLED1 and BLED2 ASSYS

SIDE A

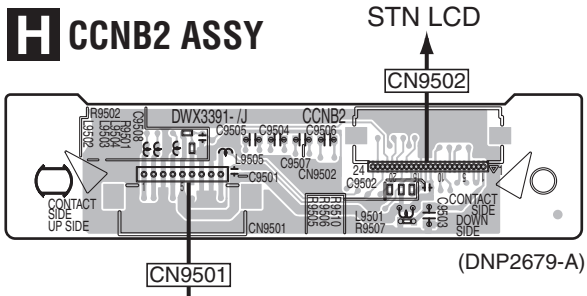
SIDE A

Note:
The 1 and 2 Assys of BLED, CCNB Assys have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

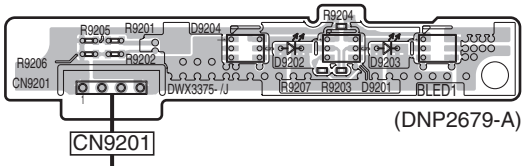
G CCNB1 ASSY



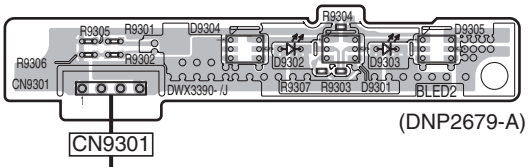
H CCNB2 ASSY



I BLED1 ASSY



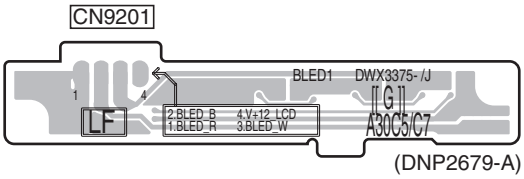
J BLED2 ASSY



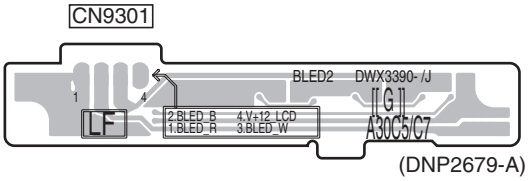
SIDE B

SIDE B

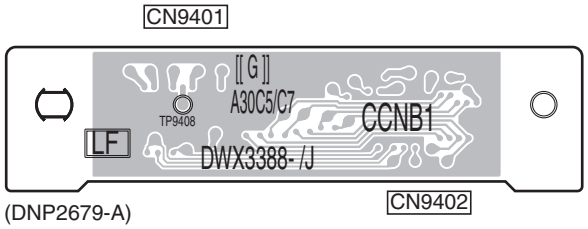
I BLED1 ASSY



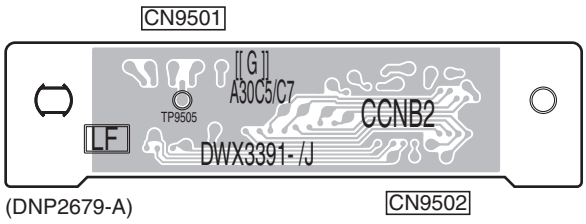
J BLED2 ASSY



G CCNB1 ASSY



H CCNB2 ASSY

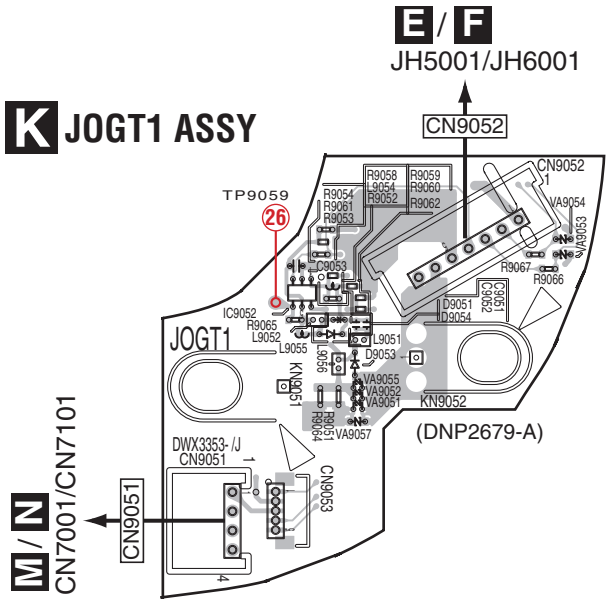


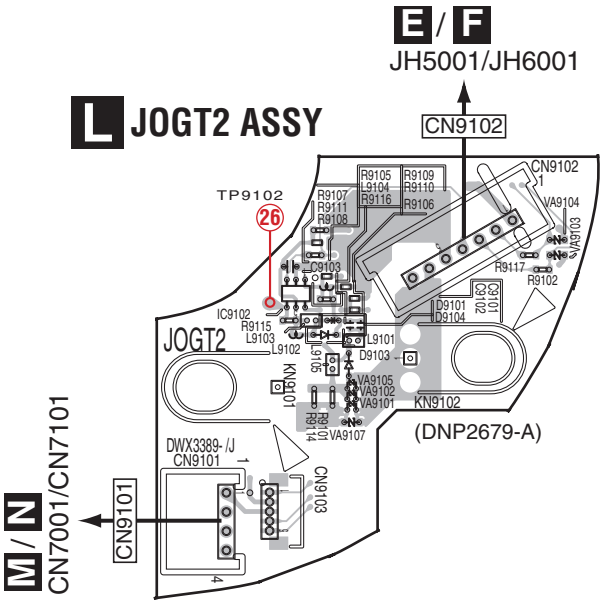
G H I J

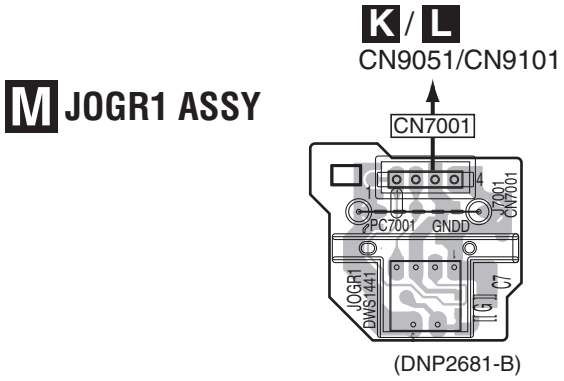
11.6 JOGT1, JOGT2, JOGR1 and JOGR2 ASSYS

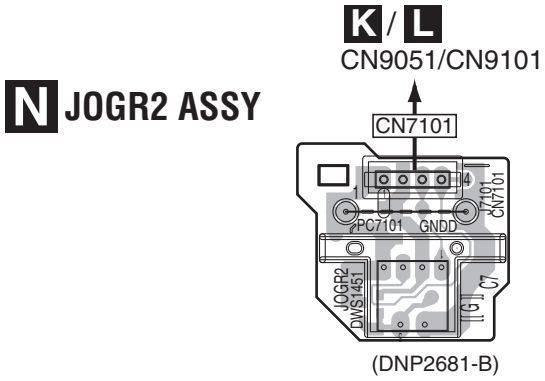
SIDE A

Note:
The 1 and 2 Assys of JOGR, JOGT Assys have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

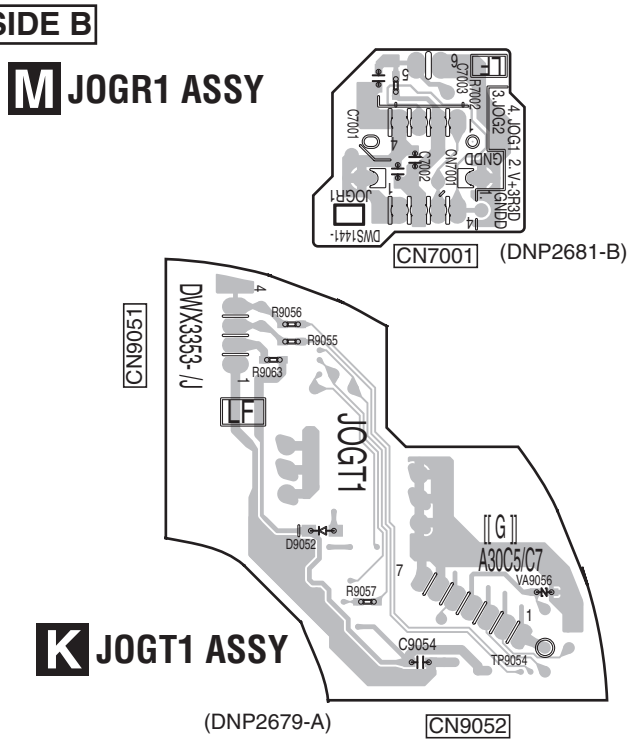


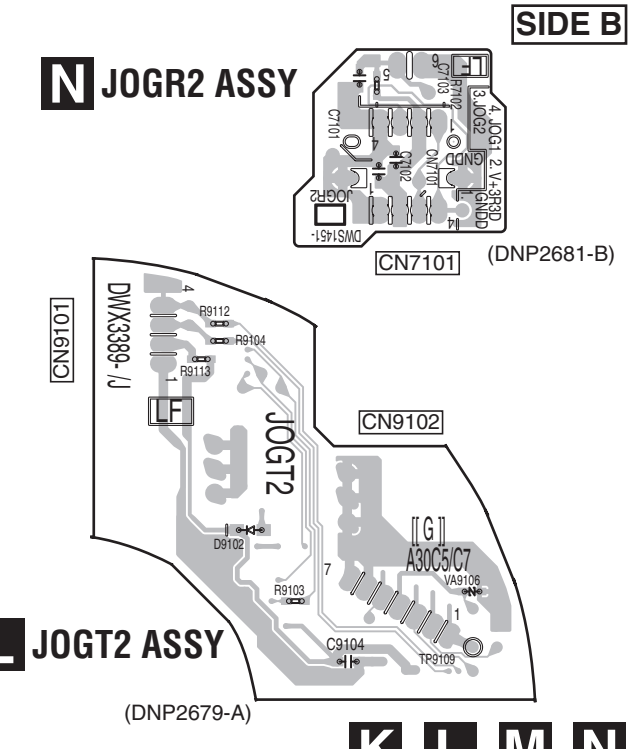






SIDE B





K L M N

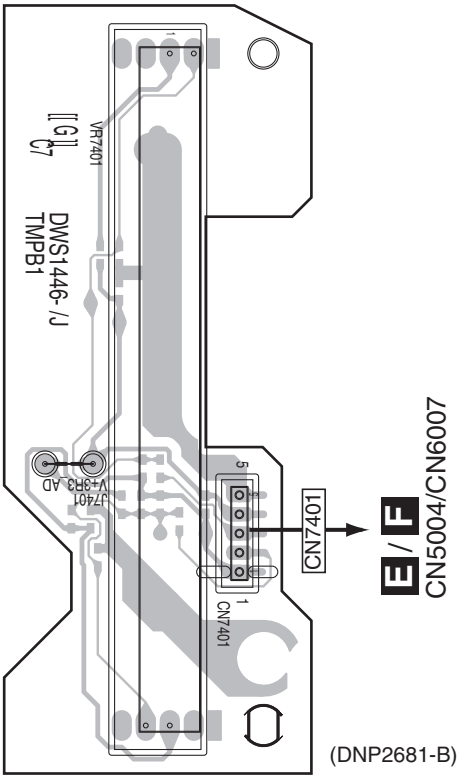
11.7 TMPB1 and TMPB2 ASSYS

SIDE A

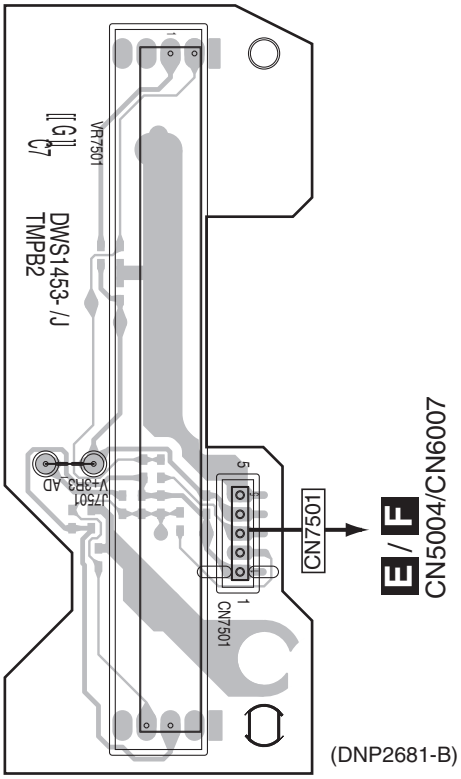
Note:
The 1 and 2 Assys of TEMPB Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

SIDE A

O TMPB1 ASSY



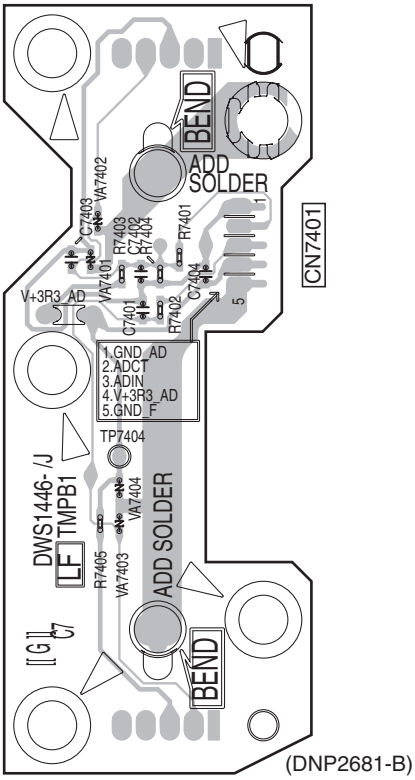
P TMPB2 ASSY



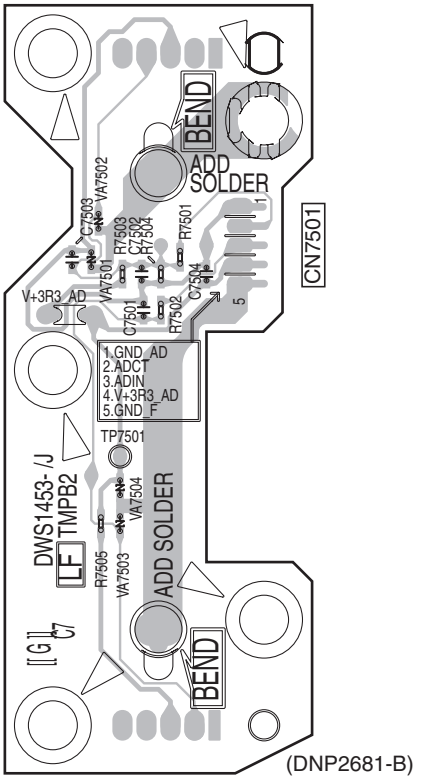
SIDE B

SIDE B

O TMPB1 ASSY



P TMPB2 ASSY



O P

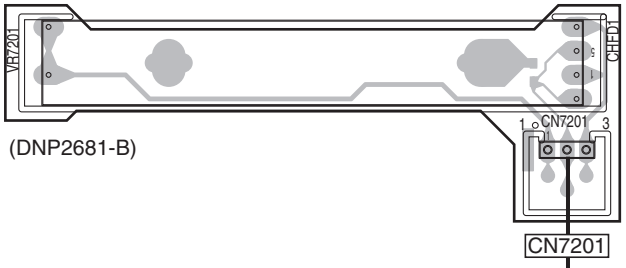
11.8 CHFD1 and CHFD2 ASSYS

SIDE A

SIDE A

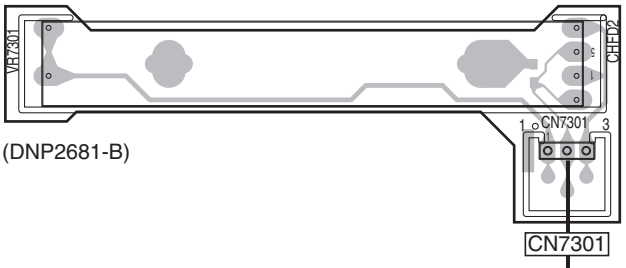
Note:
The 1 and 2 Assys of CHFD Assy have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different. They are handled similarly in their production management. Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

Q CHFD1 ASSY



E / F
JP5001/JP6001

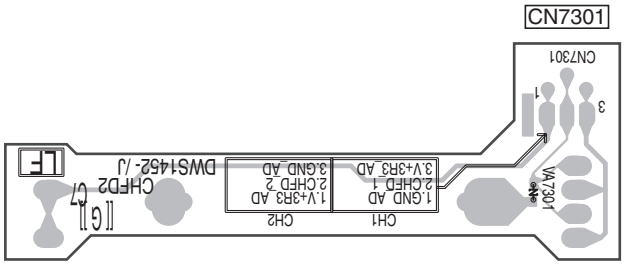
R CHFD2 ASSY



E / F
JP5001/JP6001

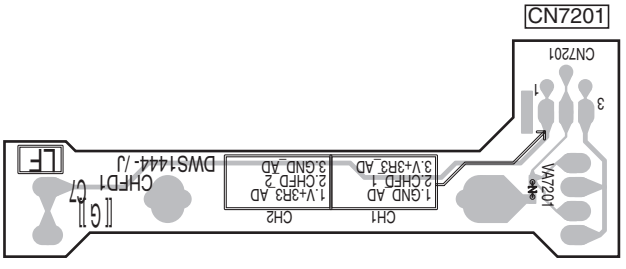
SIDE B

SIDE B



(DNP2681-B)

R CHFD2 ASSY



(DNP2681-B)

Q CHFD1 ASSY

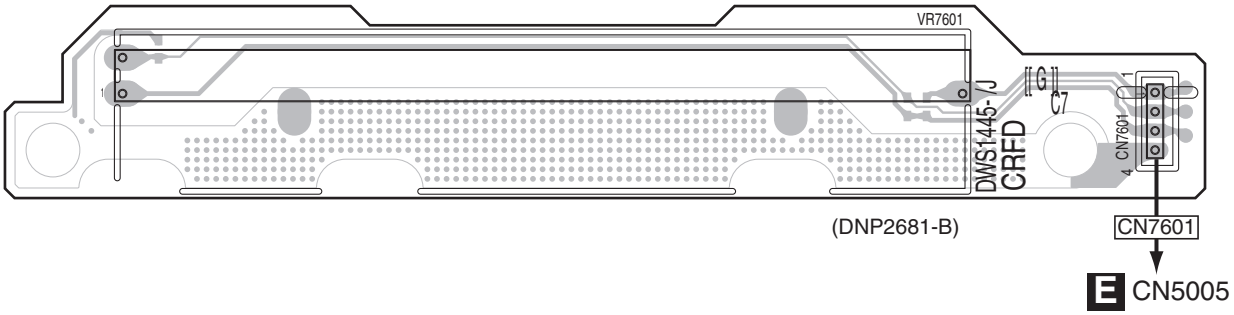
Q R

11.9 CRFD, WLED and PSWB ASSYS

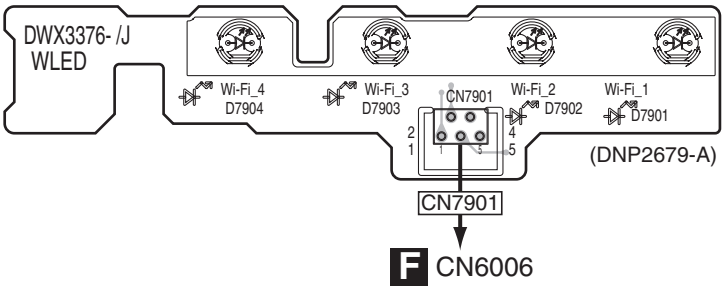
SIDE A

SIDE A

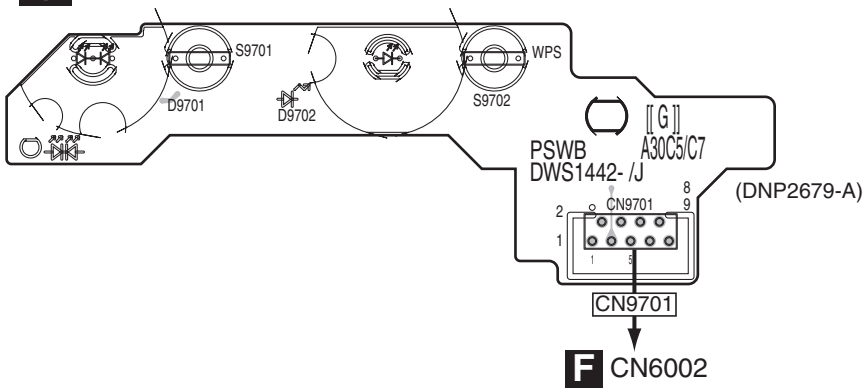
S CRFD ASSY



T WLED ASSY



U PSWB ASSY



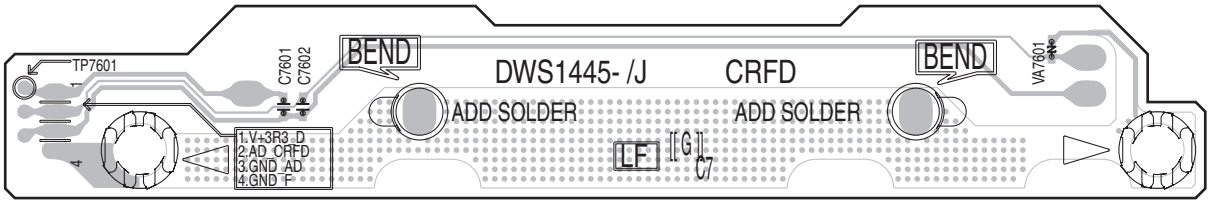
S T U

SIDE B

SIDE B

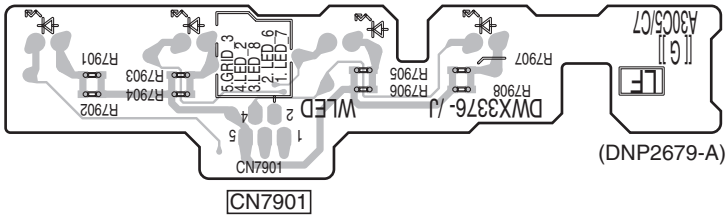
A

S CRFD ASSY



B

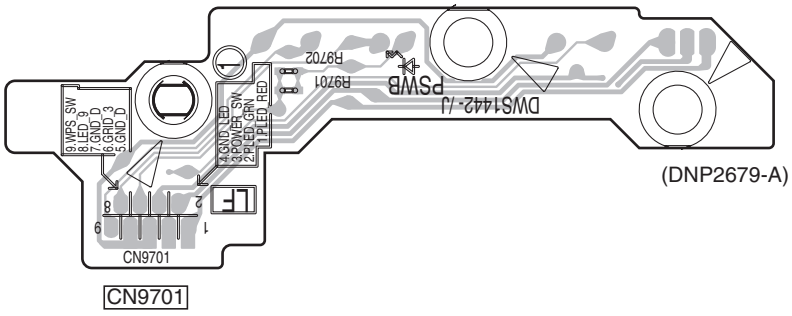
T WLED ASSY



C

D

U PSWB ASSY



E

F

S T U

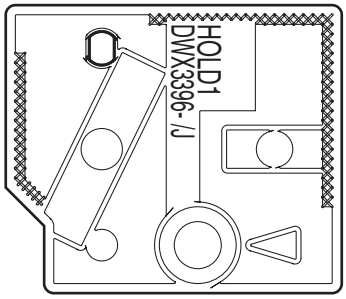
11.10 HOLD1 to HOLD4 ASSYS

SIDE A

Note:
The HOLD ASSYs 1–4 have the same board shapes.
Only printed information is different, because their part numbers and wiring numbers are different.
They are handled similarly in their production management. Therefore, any of 1 to 4 Assy of the respective Assys is assembled in the respective place.

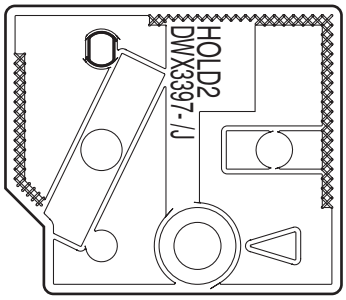
SIDE A

HOLD1 ASSY



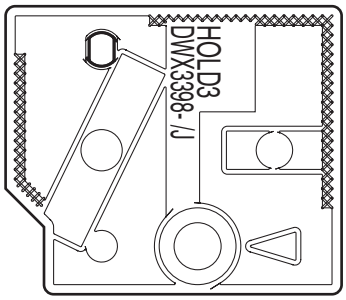
(DNP2680-A)

HOLD2 ASSY



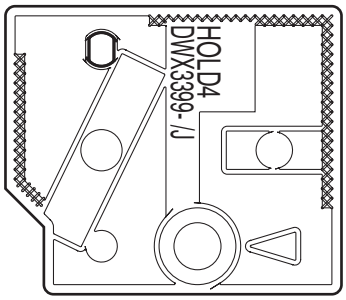
(DNP2680-A)

HOLD3 ASSY



(DNP2680-A)

HOLD4 ASSY

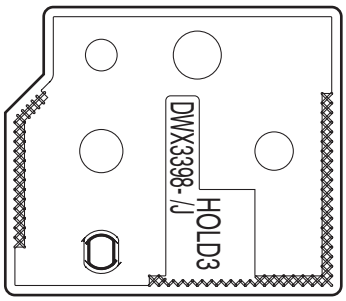


(DNP2680-A)

SIDE B

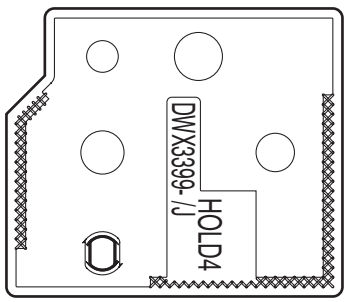
SIDE B

HOLD3 ASSY



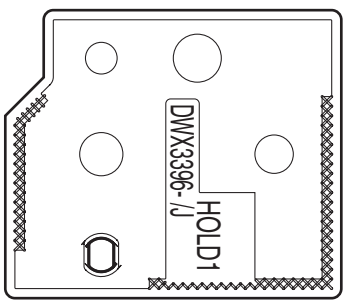
(DNP2680-A)

HOLD4 ASSY



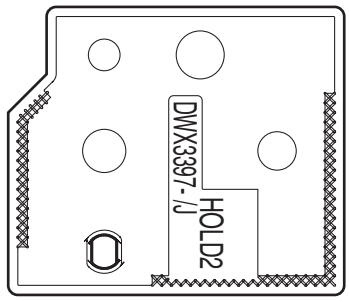
(DNP2680-A)

HOLD1 ASSY



(DNP2680-A)

HOLD2 ASSY



(DNP2680-A)

12. PCB PARTS LIST

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

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

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

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

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

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

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

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

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

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	..MAIN ASSY	DWX3313
NSP	1	..PNL1 ASSY (CUXJ, LWPWXJ)	DWM2467
NSP	1	..PNL1 ASSY (SVWYXJ8, KXJ5, AXJ5)	DWM2478
	2	..PSWB ASSY	DWS1442
	2	..JOGT1 ASSY	DWX3353
	2	..USBB ASSY	DWX3374
	2	..BLED1 ASSY	DWX3375
	2	..WLED ASSY	DWX3376
	2	..CCNB1 ASSY	DWX3388
	2	..JOGT2 ASSY	DWX3389
	2	..BLED2 ASSY	DWX3390
	2	..CCNB2 ASSY	DWX3391
	2	..EUPB ASSY (CUXJ, LWPWXJ)	DWX3351
	2	..EUPB ASSY (SVWYXJ8, KXJ5, AXJ5)	DWX3400
NSP	1	..PNL2 ASSY	DWM2468
	2	..SUBB ASSY	DWX3352
	2	..HOLD1 ASSY	DWX3396
	2	..HOLD2 ASSY	DWX3397
	2	..HOLD3 ASSY	DWX3398
	2	..HOLD4 ASSY	DWX3399
NSP	1	..PNL3 ASSY	DWM2469
	2	..JOGR1 ASSY	DWS1441
	2	..CHFD ASSY	DWS1444
	2	..CRFD ASSY	DWS1445
	2	..TMPB ASSY	DWS1446
	2	..JOGR2 ASSY	DWS1451
	2	..CHFD2 ASSY	DWS1452
	2	..TMPB2 ASSY	DWS1453
	2	..JACB ASSY	DWX3354
	2	..HPJK ASSY	DWX3355

CONTRAST OF PCB ASSEMBLIES

E EUPB ASSY

DWX3351 and DWX3400 are constructed the same except for the following:

Mark	Symbol and Description	DWX3351	DWX3400
	R5312 Resistor	RS1/10SR223J	Not used
	R5313 Resistor	Not used	RS1/10SR223J
	R5330, R5343 Resistor	RS1/10SR0R0J	Not used
	R5331, R5344 Resistor	Not used	RS1/10SR0R0J

A MAIN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	101	TC7SH32FUS1
⚠	IC	201,202,402	BD9328EFJ
⚠	IC	203	S-1170B33UC-OTS
⚠	IC	204	BD00KA5WFP
⚠	IC	205	BD2226G
⚠	IC	401	NJM2392M
⚠	IC	403	NJM2878F3-05
⚠	IC	501	MC13892AJVL
	IC	1001	MCIMX512DJM8C
	IC	1201,1202	K4T1G164QF-BCE7
	IC	1401	DYW1818
	IC	1402	TC7WH74FK
	IC	1403	TC7SHU04FUS1
	IC	1801,1901	USB3320C-EZK
⚠	IC	1802	TPS2557DRB
⚠	IC	1902	BD2226G
	IC	2201,2208	TC7SZU04FU
	IC	2204,2206	TC7WHU04FK
	IC	2207	TC7SG08FU
	IC	2601-2603	TC74LCX08FK

Mark	No.	Description	Part No.
	IC	3001,3401	AK4387ET
	IC	3002	NJM4580MD
	IC	3101,3201,3301	AK5358AET
	IC	3102,3202,3302,3402	NJM4565MD
	Q	101,201,202,2104	RT1N241M
⚠	Q	102,106,107,309	RSQ035P03
	Q	103,104,402,1801	RT1N141M-11
	Q	105,1802,2103,2108	2SC4154-11
	Q	108,310	2SA1576A
⚠	Q	109	HN1B04FU
⚠	Q	401	RSQ035P03
	Q	403	2SA2060
	Q	1603	RT3T22M
	Q	1901,2111,2112	RT3N22M
	Q	2101,2105	ISA1602AM1
	Q	2102,2107	RT1P241M-11
	Q	2109,2201	RT1N241M
	Q	2401	RT1P431M
	Q	2403,2404,2407	HN1A01FU
	Q	2405	IMH23
	Q	2406,2408,2412-2414	HN1C01FU
	Q	2409-2411	HN1A01FU
	Q	2416,2417	HN1C01FU
	Q	3001,3401,3406	IMX25
	Q	3402,3404	2SD1767
	Q	3403,3405	2SB1189
	D	101	RKZ4.7KG(B2)
	D	102	RKZ6.8KG(B2)
	D	103-105,107,111	1SS352
	D	108	RKZ18KG(B2)
⚠	D	112	1SR154-400
	D	203	RB551V-30
	D	114,205,206,405,408	1SS352
	D	401-403	CMS03
	D	406,407	EP05Q06
	D	501,2101,2102	RB160M-30
	D	2103,2104	RKZ5.6KG(B2)
	D	3002,3003,3402,3403	1SS352
	D	3101,3102,3201,3202	1SS302
	D	3301,3302	1SS302

MISCELLANEOUS

	L	102,103,406	COIL
	L	201,202	SMD SPL INDUCTOR
	L	203,401,403,405	INDUCTOR
	L	402	CHOKE COIL
	L	404	SMD SPL INDUCTOR
	L	501-505	COIL
	L	1001,1804,1807	INDUCTOR
	L	1002,1014	CHIP BEEDS FILTER
	L	1003,1005,1007-1009	INDUCTOR
	L	1011-1013,1401,1801	INDUCTOR
	L	1015,1201	CHIP BEEDS FILTER
	L	1602,1903	COIL
	L	1806,1901,1902	INDUCTOR
	L	1904-1906,3403,3404	INDUCTOR
	L	2601,2602	INDUCTOR
	L	3001,3002	CHIP INDUCTOR(10U)
	JA	101	DC POWER JACK
	JA	1601	USB CONNECTOR
	KN	101	SCREW PLATE
	KN	1201,1202	WRAPPING TERMINAL
	X	501	RESONATOR (32.768 kHz)
	X	2201	CRYSTAL (22.5792 MHz)
	X	2202	RESONATOR (24 MHz)
	CN	1801	L-PLUG(7P)
	CN	1901	SHIELDED CONN-CABLE
	CN	2601,3001	39P CONNECTOR
	CN	3401	6PJUMPER CONNECTOR
	VA	1601,1602	VARISTOR
	VA	1603	VARISTORS

RESISTORS

	R	113,311	DCN1176
	R	118,421,3418,3419	RS1/10SR102J
	R	124,425,504,506	RS1/10SR0R0J
	R	201,210	RS1/4SA0R0J
	R	211,212,2417,2440	RS1/16SS1502D
	R	213	RS1/16SS8201D
	R	214	RS1/16SS4301F
	R	215,2415	RS1/16SS2702D
	R	216	RS1/16SS6801D
	R	217,218,309,416	RS1/10SR103J
	R	221	RS1/16SS5102D
	R	222,223,2433	RS1/16SS3002D
	R	228	RS1/4SA103J
	R	313	RS1/10SR473J
	R	402,3010,3011,3412	RS1/10SR3301D
	R	403,3410,3411	RS1/10SR4701D
	R	404	RS1/10SR1601D
	R	407	DCN1172
	R	409,417,419,420	RS1/4SA181J
	R	412	RS1/16SS2202D
	R	414	RS1/16SS3001D
	R	415,429	RS1/10SR472J
	R	418,437	DCN1198
	R	422	RS1/10SR182J
	R	519,521,1624,1625	RS1/10SR0R0J
	R	1201-1208,1412,1413	RAB4CQ220J
	R	1219,1220	RS1/16SS1001F
	R	1232-1239	RAB4CQ560J
	R	1240-1244,1409,1410	RAB4CQ680J
	R	1258	RS1/16SS1000D
	R	1608,1609,1612,1613	RAB4CQ680J
	R	1645	RS1/16SS6041F
	R	1807,1907	RS1/16SS7501F
	R	1808,1908	RS1/16SS5600F
	R	1811	RS1/10SR8202D
	R	1816,1817,1820,1821	RS1/10SR101J
	R	1819	RS1/10SR2201D
	R	1916	RS1/10SR471J
	R	2101,2102,2105,2106	RS1/10SR474J
	R	2103,2104,2107-2111	RS1/10SR103J
	R	2112,2114	RS1/4SA561J
	R	2113	RS1/10SR103J
	R	2218-2223	RAB4CQ472J
	R	2250,2253-2257	RAB4CQ103J
	R	2283-2287,2608,2609	RS1/10SR0R0J
	R	2402,2435	RS1/16SS4302D
	R	2403,2423	RS1/16SS1503D

Mark	No.	Description	Part No.
	R	2416	RS1/10SR9102D
	R	2418	RS1/16SS1603D
	R	2421,2428	RS1/16SS1303D
	R	2422	RS1/16SS1803D
	R	2424	RS1/16SS6202D
	R	2429	RS1/16SS1203D
	R	2430	RS1/16SS5101D
	R	2431	RS1/16SS2002D
	R	2432,2441,2445	RS1/16SS1602D
	R	2434	RS1/16SS6802D
	R	2436,2448	RS1/16SS1202D
	R	2437	RS1/16SS1302D
	R	2446	RS1/16SS3302D
	R	2447	RS1/16SS1502D
	R	2618,2636,3012,3013	RS1/10SR0R0J
	R	3006,3405	RS1/10SR100J
	R	3008,3009	RS1/10SR183J
	R	3014,3015	RS1/10SR1001D
	R	3016,3017	RS1/10SR1201D
	R	3018,3019	RS1/10SR6801D
	R	3103,3203,3204,3303	RS1/10SR1102D
	R	3105,3205,3206,3305	RS1/10SR2001D
	R	3304	RS1/10SR1102D
	R	3306	RS1/10SR2001D
	R	3408,3409,3420,3421	RS1/10SR104J
	R	3413	RS1/10SR3301D
	R	3414,3415	RS1/10SR2701D
	R	3416,3417	RS1/10SR5601D
	R	3425-3427,3429,3431	RS1/4SA100J
	R	3428,3430,3447,3448	RS1/4SA101J
	R	3432	RS1/4SA100J
	R	3443-3446	RS1/4SA102J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	101	CEJQNP470M25
	C	105,106,404,420	CKSRYB104K25
	C	107,414	CKSRYB473K50
	C	108,225,226,236	CKSSYB104K10
	C	109	CEVW101M25
	C	110	CFTLA474J50
	C	117	CKSRYB102K50
	C	118	CCG1222
	C	201,202,302,409	CCG1236
	C	209,210,413,425	CKSSYB104K16
	C	211	CKSSYB682K25
	C	212	CKSRYB562K50
	C	219,220,422	CKSQYB474K25
	C	221,222,231,234	DCH1201
	C	223,224	ACH7275
	C	227,228,281-295	CKSSYB103K16
	C	229,230,418,427	CCSSCH102J50
	C	232,505-508,518	CKSRYB225K6R3
	C	235,408,417,428	CKSRYB105K16
	C	237,423,501,502	DCH1201
	C	301	CKSRYB104K50
	C	401,402,405,2623	DCH1165
	C	403,1008,1009,1607	CCSSCH101J50
	C	406,424	CCH1941
	C	407	CKSSYB472K25

Mark	No.	Description	Part No.
	C	415	CKSRYB224K16
	C	426,1002,1006,1007	CKSSYB103K16
	C	429,435,3015,3018	DCH1342
	C	430,433	CKSRYB104K25
	C	431,2105,2106	CKSRYB103K50
	C	432,1208,1210-1215	CCSSCH102J50
	C	434,440	CCG1236
	C	436,438,516,519	CKSSYB104K10
	C	437	CKSRYB105K16
	C	503,509,513-515	CKSQYB475K6R3
	C	510,511	DCH1256
	C	512,522,1003,1014	DCH1201
	C	517,523,1801,1901	CKSQYB475K6R3
	C	520	CCSSCH180J50
	C	521	CCSSCH150J50
	C	1001,1015	CEHVW470M6R3
	C	1004,1005,1011,1013	CKSSYB224K6R3
	C	1010,1012,1047,1060	CKSSYB103K16
	C	1016-1018,1022,1023	CKSSYB104K10
	C	1019,1020,1041,1049	CKSSYB224K6R3
	C	1021,1024,1029,1035	DCH1201
	C	1025-1028,1031-1033	CKSSYB104K10
	C	1037-1039,1042-1044	CKSSYB104K10
	C	1045,1805,1905	CKSRYB225K6R3
	C	1046,1053-1058	CKSSYB104K10
	C	1061,1065,1066,1402	CKSSYB224K6R3
	C	1062-1064,1201-1204	CKSSYB104K10
	C	1205,1206,1217,1230	DCH1201
	C	1207,1209,1216	CKSSYB104K10
	C	1218-1223,1227-1229	CCSSCH102J50
	C	1224-1226,1233,1403	CKSSYB104K10
	C	1231,1232,1401,1410	CCSSCH102J50
	C	1409,1802-1804,1806	CKSSYB104K10
	C	1601,1809,1909	CKSSYB103K16
	C	1602,2609,2621,2622	DCH1201
	C	1605,1606,1812,2403	CCSSCH102J50
	C	1807,1902-1904,1906	CKSSYB104K10
	C	1808,1908,2101,2102	CEVW101M16
	C	1811,3417,3418	CEVW331M6R3
	C	1907,2601-2603,3002	CKSSYB104K10
	C	2107,2108,3006-3008	CEVW101M16
	C	2201-2204,2209	CKSSYB103K16
	C	2205,2206,2208	CCSSCH120J50
	C	2207	CCSSCH100D50
	C	2212-2214,3003,3019	CKSSYB103K16
	C	2610,2611,2615,2617	CCSSCH221J50
	C	2619,2620	CCSSCH221J50
	C	2624	DCH1165
	C	2625,2626	CCSSCH470J50
	C	3001,3402	CEVW220M6R3
	C	3004,3404	CCSSCH102J50
	C	3005,3020,3105,3109	CKSSYB104K10
	C	3011,3012,3409,3410	CCSRCH331J50
	C	3013,3014	CCSRCH560J50
	C	3103,3114,3203,3204	CCSSCH101J50
	C	3106,3107,3423,3424	CEVW100M16
	C	3108,3111,3208,3308	CEVW470M16
	C	3110,3210,3310	CEVW470M6R3
	C	3113,3205,3209,3213	CKSSYB104K10
	C	3117,3118,3216,3218	CEVW470M25

Mark	No.	Description	Part No.
	C	3206,3207,3306,3307	CEVW330M10
	C	3211,3311	DCH1242
	C	3214,3303,3304,3314	CCSSCH101J50
	C	3305,3309,3313,3401	CKSSYB104K10
	C	3316,3318	CEVW470M25
	C	3403,3420	CKSSYB103K16
	C	3405	CKSSYB104K10
	C	3406	CKSRYB104K16
	C	3408	CEVW470M16
	C	3411,3412	CCSRCH121J50
	C	3413,3416	CEVW101M16

B JACB ASSY

SEMICONDUCTORS

	IC	8501-8503	NJM4580MD
	IC	8504-8507	NJM2121MD
	IC	8508-8510	NJM4565MD
	Q	8504-8506	IMX25
	Q	8507,8508	RT1N241M

MISCELLANEOUS

	L	8505,8506	INDUCTOR CTF1629
	JA	8501,8502	HEADPHONE JACK DKN1622
	JA	8503-8505	PIN JACK(2P) AKB7181
	JA	8506	MIC JACK DKN1614
	VR	8501	POTENTIOMETER DCS1111
	S	8501,8502	SLIDE SWITCH DSH1025
	CN	8501	39P CONNECTOR VKN2097
		0-2	PHONE SHIELD DNF1875
	VA	8501-8508	VARISTORS EZJZ1V270RM

RESISTORS

	R	8501,8502	RS1/10SR3601D
	R	8503,8504,8563-8566	RS1/10SR1001D
	R	8505-8512	RS1/10SR4701D
	R	8513,8515,8518,8520	RS1/10SR1002D
	R	8514,8516,8517,8519	RS1/10SR9101D
	R	8521-8525,8528,8529	RS1/10SR5600D
	R	8526,8527,8530,8531	RS1/10SR4301D
	R	8532	RS1/10SR5600D
	R	8541,8543,8545,8547	RS1/10SR1000D
	R	8559-8562,8599	RS1/10SR2201D
	R	8567-8570	RS1/10SR1003D
	R	8578,8579,8581,8582	RS1/10SR6800D
	R	8585-8588	RS1/10SR2703D
	R	8591-8594	RS1/10SR2202D
	R	8600	RS1/10SR1001D
	R	8601	RS1/10SR1002D
	R	8603	RS1/10SR1500D
	R	8604	RS1/10SR6201D
	R	8605	RS1/10SR1601D
	R	8606	RS1/10SR5101D
	R	8619-8626	RS1/10SR3301D
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	8503,8505,8507,8508	CEAL101M25
	C	8509,8511,8513,8515	DCG1062
	C	8510,8512,8514,8516	DCG1062
	C	8517,8518,8522	CEAL101M25
	C	8524-8528,8634-8637	CEAL101M25
	C	8529-8532,8535,8536	DCE1016
	C	8541,8543,8545,8547	CKSRYB103K50
	C	8548,8550,8595,8627	CKSRYB104K50
	C	8549,8551,8596,8604	CCSRCH102J50
	C	8552	CKSRYB103K50
	C	8553-8556	CCSRCH221J50
	C	8557-8560	CCSRCH101J50
	C	8561-8564,8608,8609	CEAL100M16
	C	8565-8568	CEAL101M16
	C	8571-8574	CFTLA123J50
	C	8583,8584,8587,8588	DCG1049
	C	8591-8594,8605,8607	CEAL470M25
	C	8597	CCSRCH561J50
	C	8598	CCSRCH181J50
	C	8599	CEAL100M50
	C	8600,8617,8619,8621	CCSRCH331J50
	C	8601	CEAL101M6R3
	C	8606	CCSRCH102J50
	C	8623	CCSRCH331J50
	C	8633	CKSRYB104K50

C HPJK ASSY

SEMICONDUCTORS

	Q	7801,7802	INC2002AC1

MISCELLANEOUS

	JA	7801	STEREO MINI JACK XKN3017
	JA	7802	HEADPHONE JACK DKN1622
	KN	7801	SCREW PLATE VNE1948
	JH	7801	6P CABLE HOLDER 51048-0600
	JP	7801	JUMPER WIRE D20PDY0640E
	VA	7801,7802	VARISTORS EZJZ1V270RM

RESISTORS

	R	7807,7808	RS1/10SR102J
	Other Resistors		RS1/4SA###J

CAPACITORS

	C	7801,7807	CKSRYB103K50
	C	7803-7806	CKSRYB473K50

D USBB ASSY

MISCELLANEOUS

	L	8001	COIL ATH7064
	L	8002	INDUCTOR CTF1793
	JA	8001	USB CONNECTOR BKP1164
	KN	8001	SCREW PLATE VNE1948
	CN	8001	L-PLUG(7P) KM200NA7L
	VA	8002-8004	VARISTOR VR105C3R3BAA

RESISTORS

	R	8005,8010	RS1/10SR0R0J
	Other Resistors		RS1/8SQ###J

CAPACITORS

	C	8001,8003	CEJQ221M6R3
	C	8002	CKSRYB105K10
	C	8005,8006	CCSSCH102J50

Mark	No.	Description	Part No.

E EUPB ASSY

SEMICONDUCTORS

⚠	IC	5001	NJM2392M
	IC	5002	PEQ194A8
	IC	5003	S-80930CNMC-G80
	IC	5004	DYW1821
	IC	5005,5006	TC74VHC125FK
	IC	5008	TC7SH32FUS1
	Q	5001	RT1N431M
	Q	5002	RT1N241M
	Q	5003-5008	RT1N237M
	Q	5009-5014	2SB1197K
	Q	5015-5018,5024	2SC4154-11
	Q	5019	HN1C01FU
	Q	5021	RT1N141M-11
	Q	5022	IMX9
	Q	5023	2SA1576A
	Q	5301-5303	RT3T22M
	D	5001	EP05Q06
	D	5004,5008,5013,5025	SLI-343U8R(HJK)
	D	5007	SLI-343M8G(GHJ)
	D	5009,5071	1SS302
	D	5010	SLR343BD2T(NP)
	D	5017,5022,5029,5030	SLR343BC4T(KL)
	D	5021,5038	SLI-343Y8Y(KLM)
	D	5032,5039-5041	SLR343BC4T(KL)
	D	5033,5035,5043	SLI-343U8R(HJK)
	D	5044-5060,5067	1SS352
	D	5063-5065	SLR343BC4T(KL)
	D	5066,5068-5070	SLR343WBC7T(MN)

MISCELLANEOUS

	L	5001	CHIP BEEDS FILTER
	L	5002	RAD SPL INDUCTOR
	L	5003,5004	INDUCTOR
	L	5005-5011	INDUCTOR
	KN	5001	EARTH TERMINAL
	VR	5001,5002	ROTARY VR
	VR	5003	ROTARY VR
	S	5001	SLIDE SWITCH
	S	5002-5009,5011-5014	TACT SWITCH
	S	5010,5020-5023	TACT SWITCH
	S	5015,5016	ENCODER
	S	5017	12MM GS ENCODER
	S	5018,5019	TACT SWITCH
	X	5001	CERAMIC OSCILLATOR (16 MHz)
	CN	5003	39P CONNECTOR
	CN	5004	L-PLUG(5P)
	CN	5005	L-PLUG(4P)
	CN	5006	9P CONNECTOR
	CN	5007	31P CONNECTOR
	CN	5008	4P PLUG
	JH	5001	7P CABLE HOLDER
	JP	5001	CONNECTOR ASSY
	JP	5002	JUMPER WIRE
	VA	5001-5004	VARISTORS

	R	5003-5008,5024,5032	RS1/16SS101J
	R	5009	RS1/4SA1R0J
	R	5010	RS1/10SR3301D
	R	5011	RS1/10SR3302D
	R	5012	RS1/10SR2202D
	R	5013,5047,5050,5051	RS1/16SS0R0J
	R	5020,5065	RS1/8SQ0R0J
	R	5021,5302-5304,5334	RS1/16SS472J
	R	5033,5037,5038,5040	RS1/16SS470J
	R	5044,5046,5048	RS1/16SS221J
	R	5052,5194,5209,5220	RS1/16SS101J
	R	5053	RS1/16SS473J
	R	5057	RS1/16SS223J
	R	5189,5190,5192,5193	RS1/16SS0R0J
	R	5191,5329,5333	RS1/16SS103J
	R	5203-5208,5210-5213	RS1/16SS0R0J
	R	5214,5215,5254-5277	RS1/16SS470J
	R	5216-5219,5280-5286	RS1/16SS221J
	R	5221,5222	RS1/10SR1802D
	R	5224,5296,5327,5346	RS1/16SS0R0J
	R	5225	RS1/4SA330J
	R	5242-5244,5305-5307	RS1/16SS101J
	R	5290,5347	RS1/16SS221J
	R	5291	RS1/4SA121J
	R	5293	RS1/4SA331J
	R	5316	RS1/10SR1002D
	R	5318	RS1/10SR1801D
	R	5328	RS1/16SS470J
	R	5336	RS1/16SS101J
	R	5342	RS1/4SA181J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	5001,5030,5116	DCH1165
	C	5002	CEAT101M25
	C	5003	CCSRCH560J50
	C	5004,5012,5018,5019	DCH1201
	C	5005,5020,5021,5023	CKSRYB104K50
	C	5007-5009,5014,5119	CKSSYB473K16
	C	5010,5011	CKSSYB104K10
	C	5016	CCSSCH102J50
	C	5017	CEAT101M10
	C	5026	CKSRYB473K50
	C	5027,5077,5086,5089	CCSSCH470J50
	C	5028,5094,5097,5118	CKSSYB103K16
	C	5029,5139,5140	CCSRCH471J50
	C	5031,5034,5036-5041	CKSRYB104K50
	C	5032,5115	CCSRCH102J50
	C	5033,5126,5127,5141	CKSRYB102K50
	C	5035,5063-5068,5085	CKSRYB103K50
	C	5080,5081,5131	CKSSYB104K16
	C	5082-5084	CEAT101M16
	C	5087,5090,5142,5143	CKSRYB103K50
	C	5088	DCH1201
	C	5117	CCSRCH221J50
	C	5120	CCSRCH101J50
	C	5122,5123,5125	CKSSYB102K50
	C	5124,5128,5148,5157	CKSRYB105K10
	C	5152-5154	CCSSCH470J50
	C	5155	CKSRYB103K50

Mark	No.	Description	Part No.

F SUBB ASSY

SEMICONDUCTORS

	IC	6001,6004	TC7SH08FUS1
	IC	6002	DYW1820
	IC	6003	TC7WH08FU
	Q	6001	IMX9
	Q	6002	RT1P431M
	Q	6003	RT1N431M
	Q	6004-6009	RT1N237M
	Q	6010-6015	2SB1197K
	Q	6016-6023,6029,6030	2SC4154-11
	Q	6024	RT1P141M
	Q	6026	HN1C01FU
	Q	6028	RT1N141M-11
	D	6003,6016,6037,6045	SLR343BC4T(KL)
	D	6004-6006,6008,6017	SLI-343U8R(HJK)
	D	6007,6014,6015,6025	SLI-343Y8Y(KLM)
	D	6019	SLR343BD2T(NP)
	D	6026,6057	SLI-343Y8Y(KLM)
	D	6027,6053,6059,6073	SLR343WBC7T(MN)
	D	6028,6032,6038,6042	SLI-343U8R(HJK)
	D	6035,6036,6043,6044	SLI-343M8G(GHJ)
	D	6046,6050,6051,6055	SLI-343M8G(GHJ)
	D	6047,6049,6052,6054	SLR343BC4T(KL)
	D	6048	SLI-343U8R(HJK)
	D	6056,6062	SLI-343M8G(GHJ)
	D	6058,6063,6068-6070	SLR343BC4T(KL)
	D	6066,6067,6072	1SS352
	D	6071,6076	1SS302
	D	6074	SLR343WBC7T(MN)

MISCELLANEOUS

	L	6001-6005 CHIP BEEDS FILTER	BTX1042
	L	6006 INDUCTOR	CTF1629
	KN	6001 EARTH TERMINAL	AKF7002
	VR	6001,6006,6011,6012 ROTARY VR	DCS1104
	VR	6002-6005,6007-6010 ROTARY VR	DCS1078
	VR	6013,6014 ROTARY VR	DCS1078
	S	6001,6002 TACT SWITCH	DSG1117
	S	6003-6010,6019 TACT SWITCH	DSG1079
	S	6011 SLIDE SWITCH	DSH1058
	S	6012 SLIDE SWITCH	DSH1066
	S	6013 12MM GS ENCODER	DSX1064
	S	6014,6015 ENCODER	DSX1082
	S	6016-6018,6020-6029 TACT SWITCH	DSG1089
	X	6001 CERAMIC RESONATOR (16 MHz)	DSS1147
	CN	6002,6004 9P CONNECTOR	VKN1240
	CN	6003 31P CONNECTOR	VKN1262
	CN	6006 5P CONNECTOR	VKN1820
	CN	6007 L-PLUG(5P)	KM200NA5L
	CN	6008 4P PLUG	KM200IB4
	JH	6001 7P CABLE HOLDER	51048-0700
	JP	6001 CONNECTOR ASSY	PF03PG-Q07
	JP	6002 JUMPER WIRE	D20PDY0715E
	VA	6001-6004 VARISTORS	EZJZ1V270RM

RESISTORS

	R	6010,6011,6013	RS1/4SA0R0J
	R	6015-6018,6022,6342	RS1/4SA0R0J
	R	6072	RS1/10SR2700D
	R	6280,6281	RS1/10SR1802D
	R	6283	RS1/4SA330J
	R	6329	RS1/4SA121J
	R	6330	RS1/4SA331J
	R	6331	RS1/4SA181J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	6001,6028	DCH1201
	C	6002,6027,6031,6032	CKSRYB104K50
	C	6011-6014,6016-6026	CKSRYB473K50
	C	6029,6030,6036,6037	CKSRYB103K50
	C	6033,6034	CKSRYB473K50
	C	6038,6040,6047,6048	CKSRYB105K10
	C	6041-6043	CEAL101M16
	C	6044,6050-6055,6128	CKSRYB104K50
	C	6045,6046,6133,6134	CKSRYB102K50
	C	6083,6084,6090,6091	CKSRYB103K50
	C	6101,6102,6118,6124	CKSRYB103K50
	C	6122,6127	DCH1165
	C	6125	CCSRCH101J50
	C	6129	CCSRCH102J50
	C	6130	CKSRYB471K50
	C	6131,6132	CCSRCH471J50
	C	6135,6136,6140	CKSRYB103K50
	C	6139	CKSRYB102K50
	C	6141	CKSRYB104K50
	C	6142-6144	CCSRCH220J50
	C	6145	CCSRCH470J50
	C	6147,6148	CKSRYB105K10

G CCNB1 ASSY

MISCELLANEOUS

	L	9402-9405 INDUCTOR	CTF1545
	CN	9401 9P CONNECTOR	VKN1301
	CN	9402 CONNECTOR	CKS6228

RESISTORS

	All Resistors		RS1/16SS###J

CAPACITORS

	C	9401,9402	CKSSYB105K6R3
	C	9403	CKSQYB334K50
	C	9404-9407	CCG1212

H CCNB2 ASSY

MISCELLANEOUS

	L	9502-9505 INDUCTOR	CTF1545
	CN	9501 9P CONNECTOR	VKN1301
	CN	9502 CONNECTOR	CKS6228

RESISTORS

	All Resistors		RS1/16SS###J

CAPACITORS

	C	9501,9502	CKSSYB105K6R3
	C	9503	CKSQYB334K50
	C	9504-9507	CCG1212

Mark	No.	Description	Part No.

I BLED1 ASSY

SEMICONDUCTORS

D	9201,9204,9205	SMLV56RGB1U1(Q)
D	9202,9203	NHSW157A-7364

MISCELLANEOUS

CN	9201	4P SOCKET KP200IB4L

RESISTORS

All Resistors		RS1/10SR###J

J BLED2 ASSY

SEMICONDUCTORS

D	9301,9304,9305	SMLV56RGB1U1(Q)
D	9302,9303	NHSW157A-7364

MISCELLANEOUS

CN	9301	4P SOCKET KP200IB4L

RESISTORS

All Resistors		RS1/10SR###J

K JOGT1 ASSY

SEMICONDUCTORS

IC	9052	PE0004A8
D	9051	RB520G-30

MISCELLANEOUS

L	9051,9052,9056	INDUCTOR CTF1786
KN	9051	EARTH TERMINAL AKF7002
CN	9051	L-PLUG(4P) KM200NA4L
CN	9052	7PJUMPER CONNECTOR 52151-0710
VA	9052,9055	SMD VARISTOR EZJZ0V80010
VA	9056	VARISTORS EZJZ1V270RM

RESISTORS

R	9051,9064	DCN1187
R	9059	RS1/16SS2202D
R	9060,9061	RS1/16SS103J
Other Resistors		RS1/10SR###J

CAPACITORS

C	9052	CCSSCH221J50
C	9053	CKSRYB104K50
C	9054	DCH1201

L JOGT2 ASSY

SEMICONDUCTORS

IC	9102	PE0004A8
D	9101	RB520G-30

MISCELLANEOUS

L	9101,9103,9105	INDUCTOR CTF1786
KN	9101	EARTH TERMINAL AKF7002
CN	9101	L-PLUG(4P) KM200NA4L
CN	9102	7PJUMPER CONNECTOR 52151-0710
VA	9102,9105	SMD VARISTOR EZJZ0V80010
VA	9106	VARISTORS EZJZ1V270RM

RESISTORS

R	9101,9114	DCN1187
R	9109	RS1/16SS2202D
R	9110,9111	RS1/16SS103J
Other Resistors		RS1/10SR###J

CAPACITORS

C	9102	CCSSCH221J50
C	9103	CKSRYB104K50
C	9104	DCH1201

M JOGR1 ASSY

MISCELLANEOUS

CN	7001	CONNECTOR ASS'Y PF04PG-Q07

RESISTORS

All Resistors		RS1/10SR###J

MISCELLANEOUS

PC	7001	PHOTO INTERRUPTER SEDS-7573

CAPACITORS

C	7001	CKSRYB105K10
C	7002	CKSRYB103K50

N JOGR2 ASSY

MISCELLANEOUS

CN	7101	CONNECTOR ASS'Y PF04PG-Q07

RESISTORS

All Resistors		RS1/10SR###J

MISCELLANEOUS

PC	7101	PHOTO INTERRUPTER SEDS-7573

CAPACITORS

C	7101	CKSRYB105K10
C	7102	CKSRYB103K50

O TMPB1 ASSY

MISCELLANEOUS

VR	7401	SLIDE VR DCV1029
CN	7401	CONNECTOR ASS'Y PF05PG-Q10

RESISTORS

R	7403,7404	RS1/10SR2201D
Other Resistors		RS1/10SR###J

CAPACITORS

C	7401,7402	CKSRYB103K50
C	7404	CKSRYB104K50

P TMPB2 ASSY

MISCELLANEOUS

VR	7501	SLIDE VR DCV1029
CN	7501	CONNECTOR ASS'Y PF05PG-Q10

RESISTORS

R	7503,7504	RS1/10SR2201D
Other Resistors		RS1/10SR###J

CAPACITORS

C	7501,7502	CKSRYB103K50
C	7504	CKSRYB104K50

Mark	No.	Description	Part No.

Q CHFD1 ASSY

MISCELLANEOUS

	VR 7201	SLIDE VR	DCV1027
	CN 7201	L-PLUG(3P)	KM200NA3L
	VA 7201	VARISTORS	EZJZ1V270RM

R CHFD2 ASSY

MISCELLANEOUS

	VR 7301	SLIDE VR	DCV1027
	CN 7301	L-PLUG(3P)	KM200NA3L
	VA 7301	VARISTORS	EZJZ1V270RM

S CRFD ASSY

MISCELLANEOUS

	VR 7601	VARIABLE RESISTOR	DCV1023
	CN 7601	CONNECTOR ASS'Y	PF04PG-Q07
	VA 7601	VARISTORS	EZJZ1V270RM

CAPACITORS

	C	7601	CKSRYB104K50
	C	7602	CKSRYB103K50

T WLED ASSY

SEMICONDUCTORS

	D	7901-7904	SLR343BD2T(NP)

MISCELLANEOUS

	CN 7901	5P CONNECTOR	VKN1265

RESISTORS

	All Resistors		RS1/10SR###J

U PSWB ASSY

SEMICONDUCTORS

	D	9701	SPR-39MVWF(MN)
	D	9702	SLI-343M8G(GHJ)

MISCELLANEOUS

	S	9701,9702 TACT SWITCH	DSG1089
	CN 9701	9P CONNECTOR	VKN1852

RESISTORS

	All Resistors		RS1/10SR###J