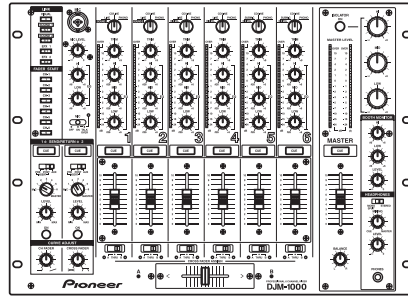


Service Manual



DJM-1000

ORDER NO.
RRV3121

DJ MIXER

DJM-1000

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

Model	Type	Power Requirement	Remarks
DJM-1000	KUCXJ	AC120V	
DJM-1000	WYXJ	AC220-240V	
DJM-1000	RLTXJ	AC110-120V / 220-240V	



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

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SAFETY INFORMATION

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

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

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

Health & Safety Code Section 25249.6 - Proposition 65

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

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

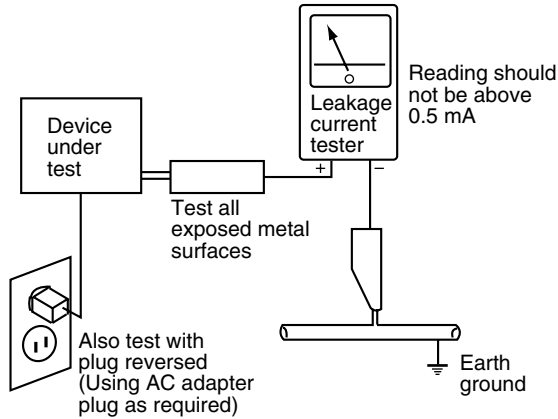
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

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

[Important Check Points for Good Servicing]

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

1. Product safety



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

- ① Use specified parts for repair.

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

- ② Do not perform modifications without proper instructions.

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

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

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

- ④ Make sure the screws are tightly fastened.

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

- ⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

- ⑩ Safe environment should be secured during servicing.

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

2. Adjustments



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

3. Lubricants, Glues, and Replacement parts



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

4. Cleaning



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

5. Shipping mode and Shipping screws



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

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1. SPECIFICATIONS

1. General Specifications

Power supply voltage (KUCXJ)	AC 120 V, 60 Hz
Power supply voltage (WYXJ)	AC 220-240 V, 50/60 Hz
Power supply voltage (RLTXJ)	AC 110-120 V/220-240 V, 50/60 Hz
Power consumption (KUCXJ)	63 W
Power consumption (WYXJ, RLTXJ)	62 W
Operating temperature	+5°C to +35°C (+41°F to +95°F)
Operating humidity	5 % to 85 % (no condensation)
Weight	12.1 kg (26 lb 11 oz)
External dimensions	482 (W) x 359.3 (D) x 187.5 (H) mm (19 (W) x 14-5/16 (D) x 7-3/8 (H) in)

2. Audio Section

Sampling rate	96 kHz
A/D, D/A converter	24 bits
Frequency response	20 Hz to 20 kHz
S/N ratio (at full scale)	
LINE	104 dB
PHONO	88 dB
MIC	84 dB
Distortion (LINE-MASTER1)	0.005 %
Headroom	19 dB
Input level	
PHONO	-52 dBu (47 kΩ)
MIC, SUBMIC	-52 dBu (3 kΩ)
CD/LINE, LINE	-12 dBu (22 kΩ)
RETURN	-12 dBu (22 kΩ)
Output level	
MASTER1	+2 dBu (600 Ω)
MASTER2	+2 dBu (10 kΩ)
REC	-8 dBu (10 kΩ)
BOOTH	+2 dBu (600 Ω)
SEND	-12 dBu (10 kΩ)
PHONES	+8.5 dBu (32 Ω)
Crosstalk (LINE)	88 dB
Channels	6
Channel equalizer	
HI	-26 dB to +6 dB (13 kHz)
MID	-26 dB to +6 dB (1 kHz)
LOW	-26 dB to +6 dB (70 Hz)
Microphone equalizer	
HI	-6 dB to +6 dB (10 kHz)
LOW	-6 dB to +6 dB (100 Hz)
Booth monitor equalizer	
HI	-6 dB to +6 dB (10 kHz)
LOW	-6 dB to +6 dB (100 Hz)

3. Input output connectors

PHONO input connectors	
RCA pin jack	6
CD/LINE, LINE input connectors	
RCA pin jack	6
Phone jack (φ6.3 mm)	4
MIC, SUBMIC input connectors	
XLR connector/Phone jack (φ6.3 mm)	1
Phone jack (φ6.3 mm)	2
DIGITAL coaxial input connectors	
RCA pin jack	4
RETURN input connectors	
Phone jack (φ6.3 mm)	2
MASTER output connectors	
XLR connector	1
RCA pin jack	1
BOOTH output connectors	
Phone jack (φ6.3 mm)	2
REC output connectors	
RCA pin jack	1
SEND output connectors	
Phone jack (φ6.3 mm)	2
DIGITAL coaxial output connector	
RCA pin jack	1
Digital link connectors (EFX 1, 2, SOUND 1, 2, VISUAL)	
Mini DIN	5
MIDI OUT connector	
5P DIN	1

4. Accessories

Operating instructions	1
Power cord	1
Warranty (KUCXJ only)	1

Appearance and specifications are subject to change without notice.

● Accessories

Power cord
(KUCXJ : DDG1028)
(WYXJ, RLTXJ : ADG7062)



Operating Instructions
Warranty (KUCXJ type only)

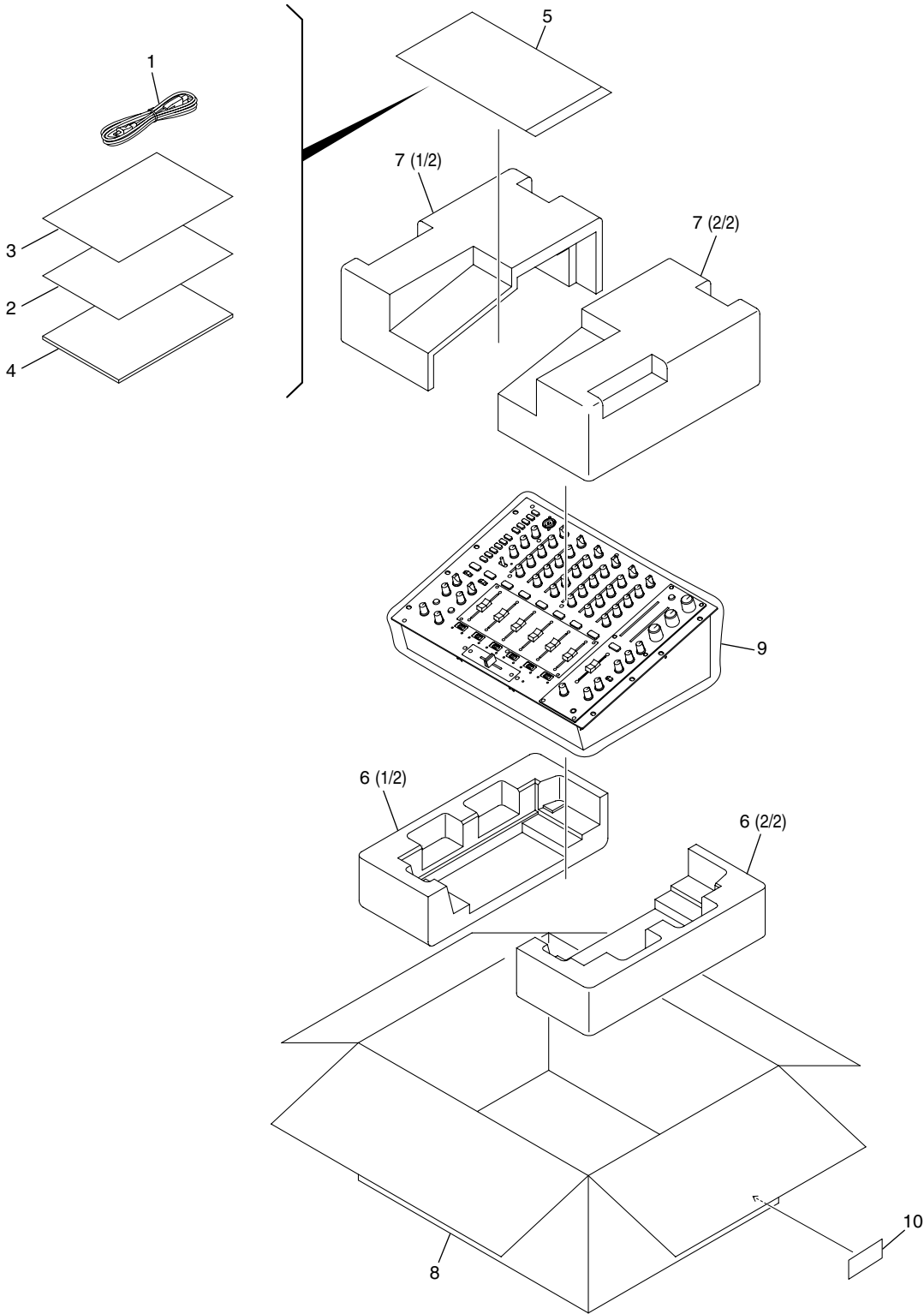
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2. EXPLODED VIEWS AND PARTS LIST

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.)

2.1 PACKING SECTION



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(1) PACKING SECTION PARTS LIST

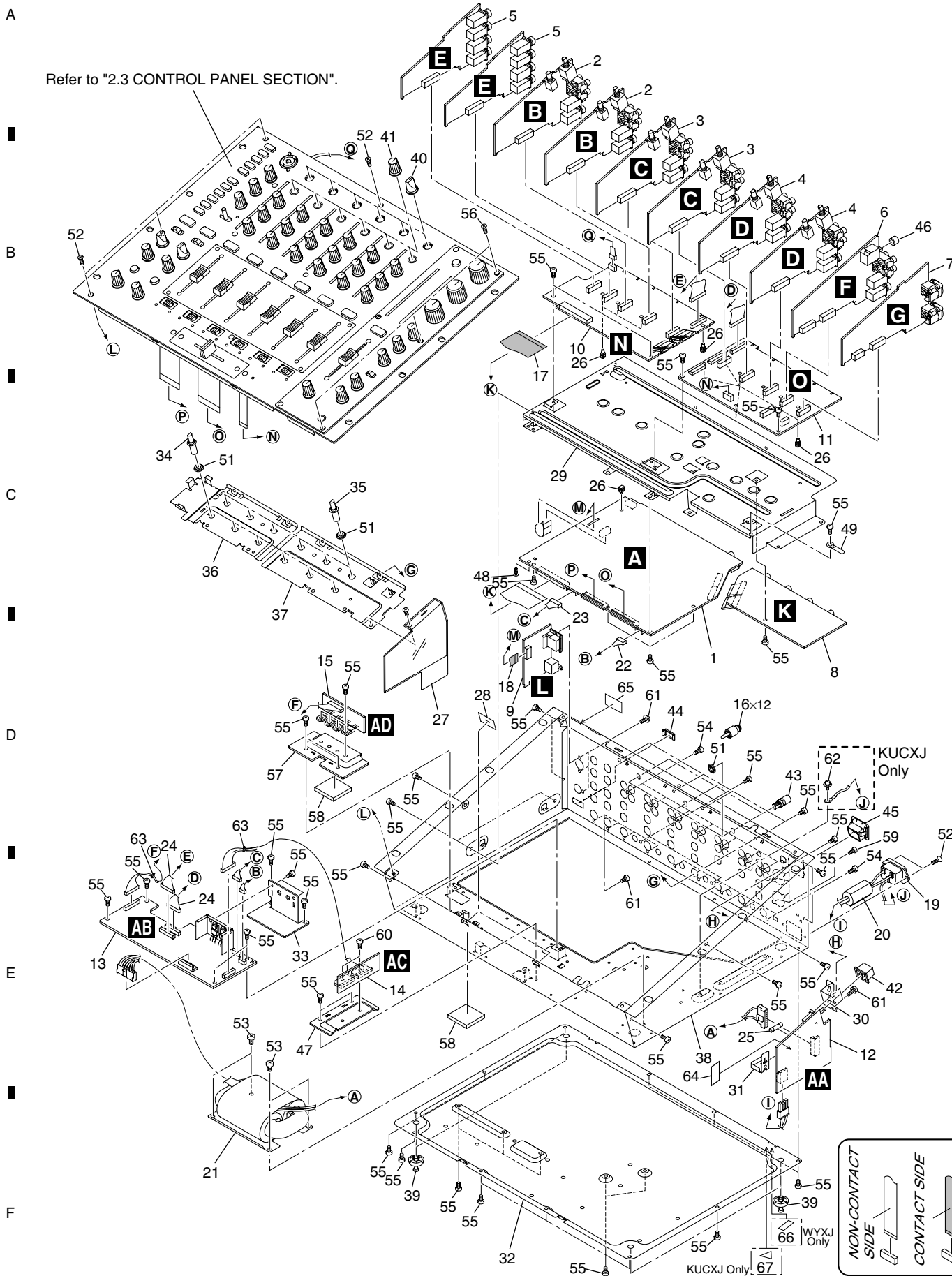
<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>Part No.</u>
⚠	1	Power Cord	See Contrast table (2)
NSP	2	Warranty	See Contrast table (2)
NSP	3	User Seat	DRM1262
	4	Operating Instructions	See Contrast table (2)
NSP	5	Polyethylene Bag (0.06 x 230 x 340)	AHG7117
	6	Bottom Pad	DHA1641
	7	Top Pad	DHA1642
	8	Packing Case	See Contrast table (2)
	9	Packing Sheet	RHC1023
NSP	10	Label	VRW1629

(2) CONTRAST TABLE

DJM-1000/KUCXJ, WYXJ and RLTXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-1000 /KUCXJ	DJM-1000 /WYXJ	DJM-1000 /RLTXJ
⚠ NSP	1	Power Cord	DDG1028	ADG7062	ADG7062
	2	Warranty	ARY7043	Not used	Not used
	4	Operating Instructins (English)	DRB1371	Not used	Not used
	4	Operating Instructins (English/ French/ German/ Italian/ Duch/ Spanish)	Not used	DRB1372	Not used
	4	Operating Instructins (English/ Spanish/ Chinese)	Not used	Not used	DRB1373
	8	Packing Case	DHG2501	DHG2502	DHG2503

2.2 BOTTOM SECTION



(1) BOTTOM SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	DIGITAL MAIN Assy	DWG1586	36	PCB Stay V (A) Assy	DXB1856	
2	CH1/CH2 INPUT Assy	DWX2501	37	PCB Stay V (B) Assy	DXB1857	
3	CH3/CH4 INPUT Assy	DWX2502	NSP 38	Chassis	See Contrast table (2)	A
4	CH5/CH6 INPUT Assy	DWX2503	39	Leg Assy	REC-434	
5	SEND/RETURN Assy	DWX2408	40	Rotary SW Knob	DAA1167	
6	BOOTH/REC Assy	DWX2409	41	Rotary Knob B	DAA1171	
7	MASTER Assy	DWX2410	42	Power Knob	DAC2133	
8	DIGITAL SUB Assy	DWX2414	43	Earth Terminal with Knob	DKE1014	
9	VISUAL LINK Assy	DWX2413	44	Blind Cap	DNK4218	
10	BUS1 Assy	DWX2422	45	Power Knob Guard	DNK4335	
11	BUS2 Assy	DWX2423	46	Select Knob (S)	DAA1166	B
12	ACIN Assy	See Contrast table (2)	47	Heatsink A	DNG1092	
13	POWER Assy	DWR1384	48	Nyron Rivet (3 x 4.5)	RBM-003	
14	REG1 Assy	DWR1385	NSP 49	Cord Clamper	ZCB-069Z	
15	REG2 Assy	DWR1386	50	Flange Nut M12	DBN1012	
16	Short Pin Plug	AKM7008	51	Flange Nut M7	DBN1011	
17	40P Flexible Cable	DDD1288	52	Screw	CMZ30P100FTB	
18	10P Flexible Cable	DDD1289	53	Screw	BBZ40P060FTC	
⚠ 19	AC Inlet Assy	See Contrast table (2)	54	Screw	BPZ30P080FTB	
⚠ 20	Ferrite Core	DTH1195	55	Screw	BBZ30P060FTB	
⚠ 21	Power Transformer	See Contrast table (2)	56	Screw	CMZ30P100FNI	C
22	Connector	PF04EE-S07	57	Heatsink B	DNG1093	
23	Connector	PF06EE-S15	NSP 58	Silicone Sheet C	DEB1764	
24	Connector	PF10EE-S30	59	Screw	BBZ26P060FTB	
⚠ 25	Fuse (FU1)	See Contrast table (2)	60	Screw	BBZ30P080FTC	
26	Card Spacer	AEC7214	61	Screw	PMH30P100FTB	
27	Shield Plate (A)	DEC2839	62	Screw	See Contrast table (2)	
28	Shade Sheet A	DEC2842	NSP 63	Binder	ZCA-BK1	
29	PCB Stay (H)	DNF1704	NSP 64	Fuse Card	DAX1015	
30	Power Switch Stay	DNF1705	NSP 65	Label	VRW1629	D
31	Power PCB Stay	DNF1716	66	Label (WEEE)	See Contrast table (2)	
32	Bottom Plate	DNH2620	67	Label	See Contrast table (2)	
NSP 33	Heatsink Plate B	DNH2644				
34	Extension Shaft (L)	DNK4336				
35	Extension Shaft (L2)	DNK4491				

(2) CONTRAST TABLE

DJM-1000/KUCXJ, WYXJ and RLTXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-1000 /KUCXJ	DJM-1000 /WYXJ	DJM-1000 /RLTXJ
⚠	12	ACIN Assy	DWR1383	DWR1383	DWR1399
⚠	19	AC Inlet Assy (3P)	DKP3730	Not used	Not used
⚠	19	AC Inlet Assy (2P)	Not used	DKP3731	DKP3731
⚠	21	Power Transformer	DTT1179	DTT1178	DTT1180
⚠	25	Fuse (FU1 : 2A)	REK1111	Not used	Not used
⚠	25	Fuse (FU1 : 1.6A)	Not used	REK1024	REK1024
NSP	38	Chassis	DNA1304	DNA1306	DNA1326
	62	Screw	PMH40P080FTC	Not used	Not used
	66	Label (WEEE)	Not used	ARW7322	Not used
	66	Label	DRW1975	Not used	Not used

2.3 CONTROL PANEL SECTION

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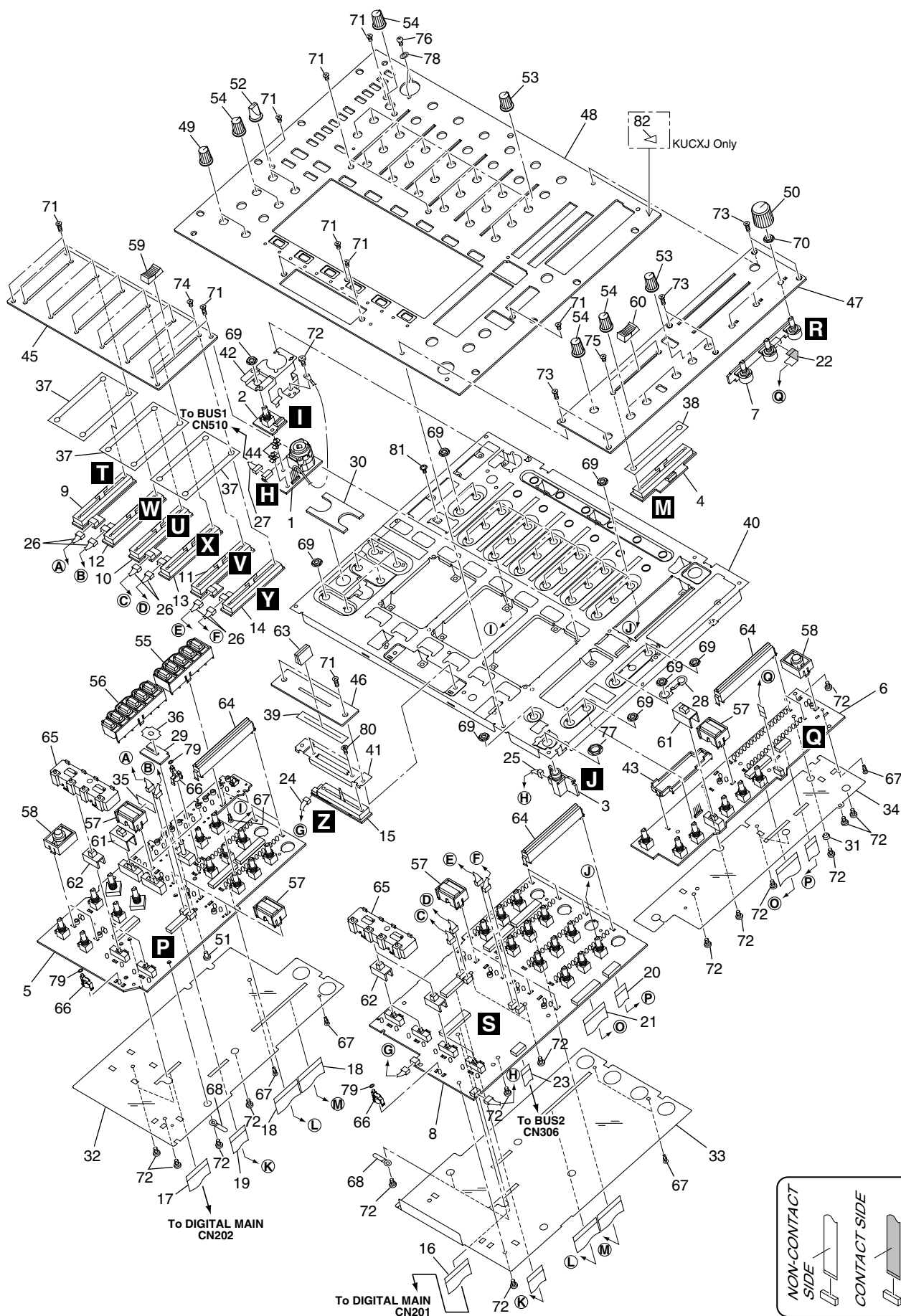
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Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	MIC Assy	DWX2411	42	MIC. Stay	DNF1720
2	MIC VR Assy	DWX2466	43	Master Fader Holder	DNK4374
3	HP Assy	DWX2412	NSP 44	PC Support	VEC1508
4	MASTER FADER Assy	DWX2421	45	CHF Panel	DAH2414
5	PANEL1 Assy	DWX2427			
6	PANEL2 Assy	DWX2428	46	CRF Panel	DAH2415
7	ISOLATOR Assy	DWX2425	47	Master Panel	DNB1135
8	PANEL3 Assy	DWX2426	48	Control Panel	DNB1136
9	CH1/CH3/CH5 FADER Assy	DWX2416	49	Rotary Knob (SS)	DAA1164
10	CH1/CH3/CH5 FADER Assy	DWX2418	50	VR Knob (ISO)	DAA1165
11	CH1/CH3/CH5 FADER Assy	DWX2443	51	Nyron Rivet	DEC2870
12	CH2/CH4/CH6 FADER Assy	DWX2415	52	Rotary SW Knob	DAA1167
13	CH2/CH4/CH6 FADER Assy	DWX2417	53	Rotary Knob A	DAA1170
14	CH2/CH4/CH6 FADER Assy	DWX2442	54	Rotary Knob B	DAA1171
15	CROSS FADER Assy	DWX2424	55	Set Knob (LINK)	DAC2213
16	31P Flexible Cable	DDD1280	56	Set Knob (FS)	DAC2214
17	28P Flexible Cable	DDD1281	57	CUE Knob	DAC2215
18	31P Flexible Cable	DDD1282	58	ISO Knob	DAC2216
19	20P Flexible Cable	DDD1283	59	CHF Knob	DAC2217
20	13P Flexible Cable	DDD1284	60	MF Knob	DAC2218
21	28P Flexible Cable	DDD1285	61	Slide SW Cap (A)	DAC2219
22	7P Flexible Cable	DDD1286	62	Slide SW Cap (B)	DAC2220
23	10P Flexible Cable	DDD1287	63	Slider Knob (L)	DNK4210
24	Connector	PF03PP-R10	64	Level Meter Lens	DNK4332
25	Connector	PF04PP-R07	65	Set Lens	DNK4333
26	Connector	PF04PP-R10	66	LED Lens	DNK4334
27	Connector	PF05PP-R10	67	Nyron Rivet (3 x 4.5)	RBM-003
28	Earth Spring	DBK1265	NSP 68	Cord Clamper	ZCB-069Z
29	Shade Spacer A	DEB1729	69	Flange Nut M9	DBN1008
30	Shade Spacer B	DEB1730	70	Flange Nut M7	DBN1011
31	POM Bush (M3)	DEC2397	71	Screw	CMZ30P100FTB
32	Insulation Sheet (A)	DEC2762	72	Screw	BBZ30P060FTB
33	Insulation Sheet (B)	DEC2763	73	Screw	CMZ30P100FNI
34	Insulation Sheet (C)	DEC2764	74	Screw	CMZ30P050FTB
35	Shade Sheet B	DEC2843	75	Screw	CMZ30P050FNI
36	SW Packing	DEC2848	76	Screw	BPZ30P120FTB
37	CH Fader Packing	DEC2865	77	Flange Nut M12	DBN1012
38	Master Fader Packing	DEC2866	78	PC Washer	DEC2868
39	Fader Packing	DEC2867	79	Poly. Slider Washer	WA26D080D025
NSP 40	Panel Stay	DND1253	80	Screw	DBA1262
41	CRF Stay	DNF1706	81	Screw	AMZ26P040FTC
			82	Label	See Contrast table (2)

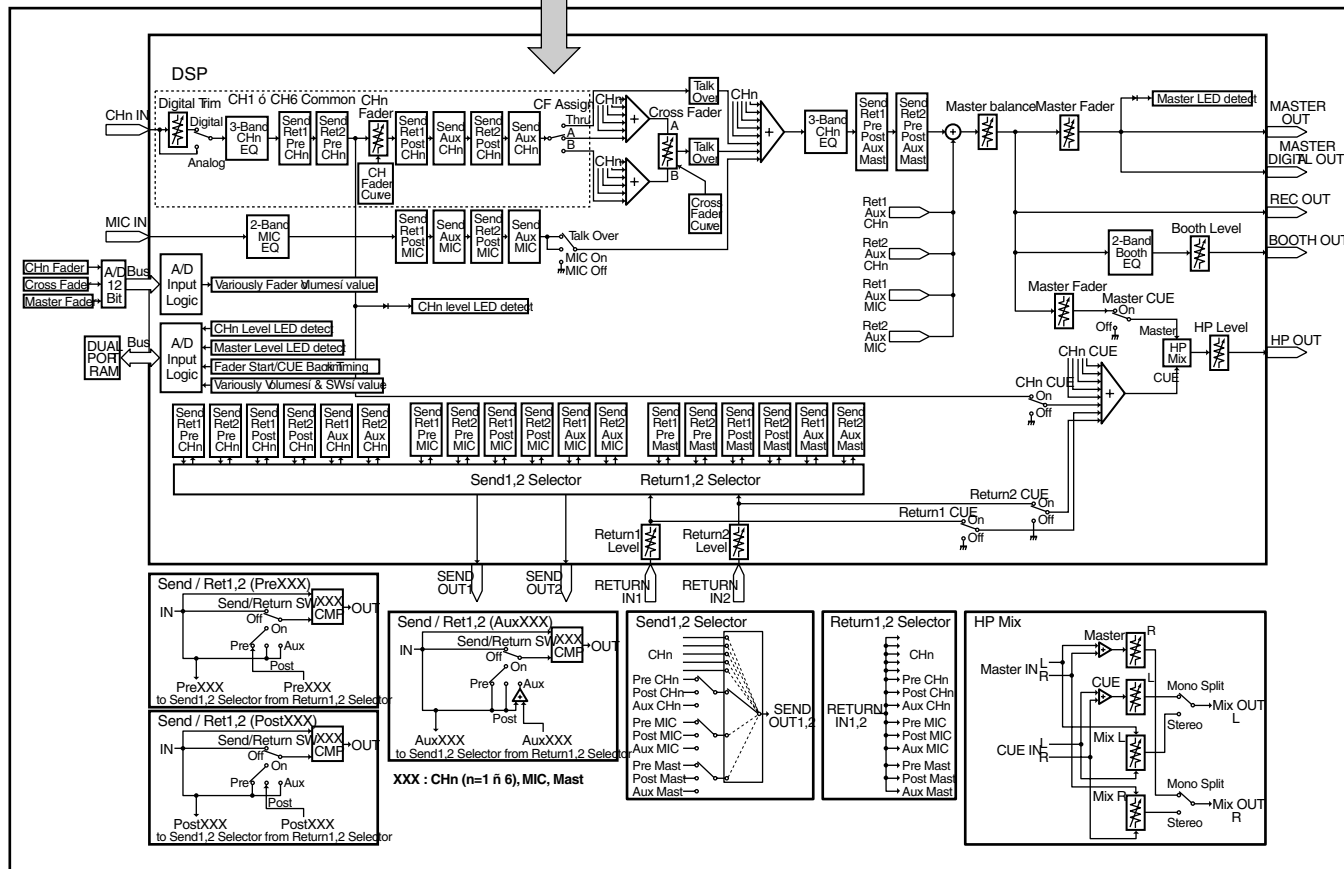
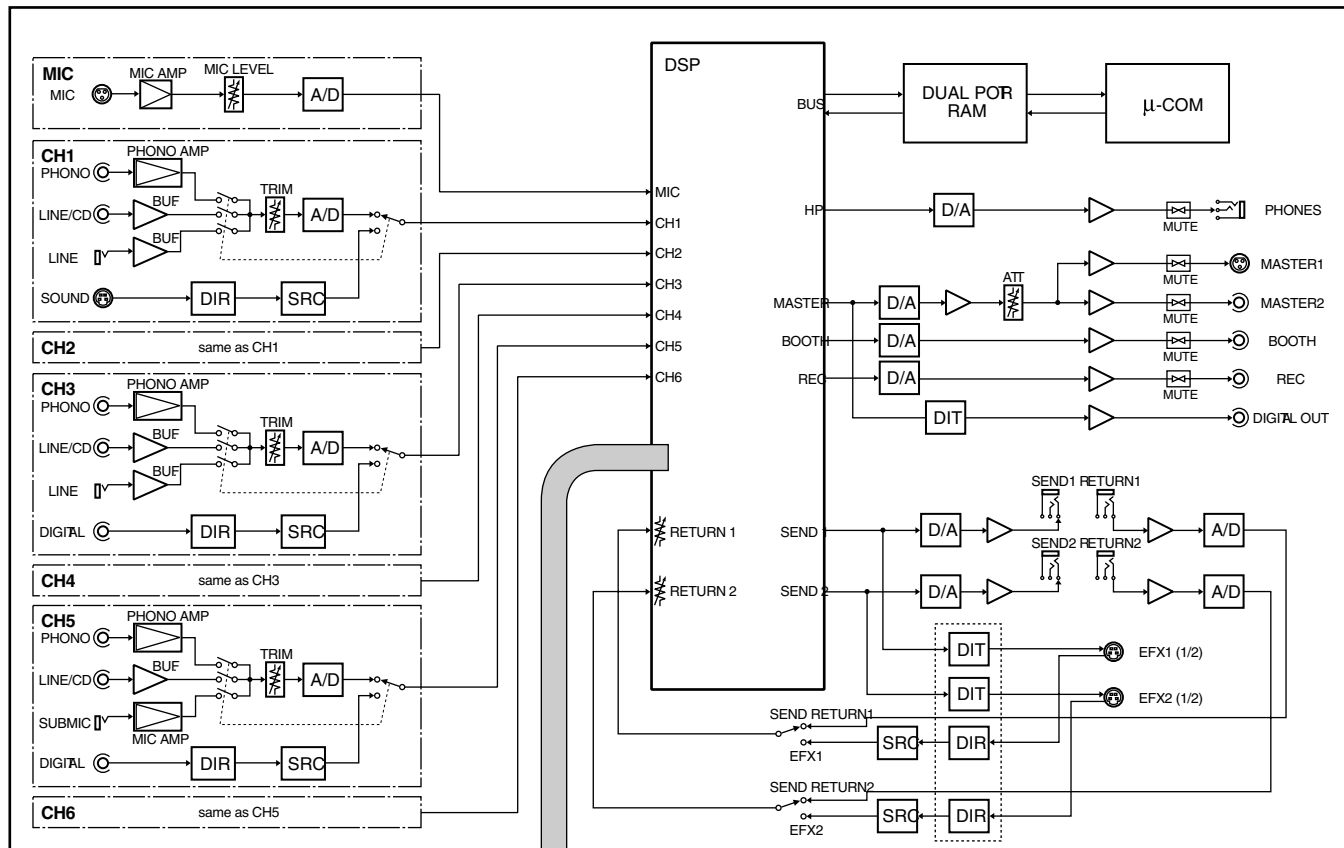
(2) CONTRAST TABLE

DJM-1000/KUCXJ, WYXJ and RLTXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-1000 /KUCXJ	DJM-1000 /WYXJ	DJM-1000 /RLTXJ
	82	Label	DRW1975	Not used	Not used

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM



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DJM-1000

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3.3 OVERALL WIRING DIAGRAM (2/2)

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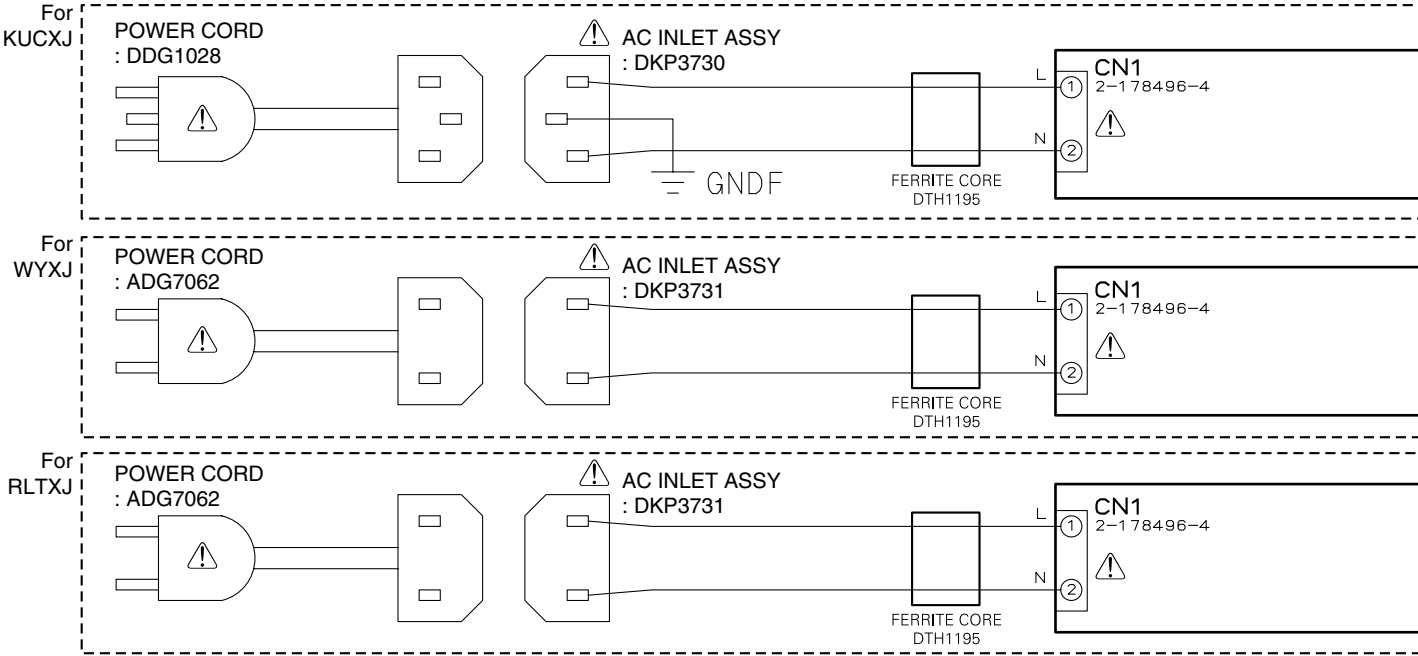
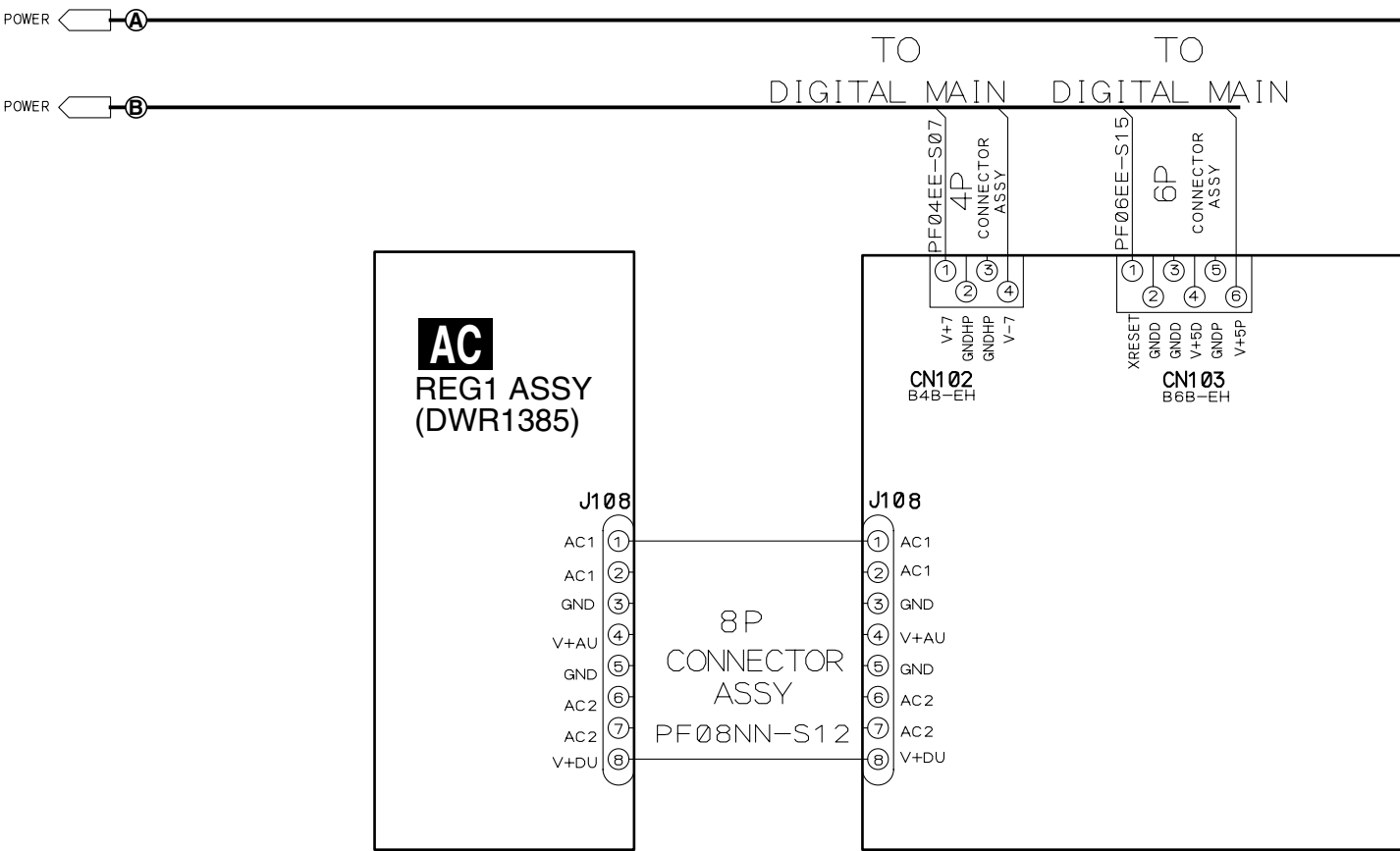
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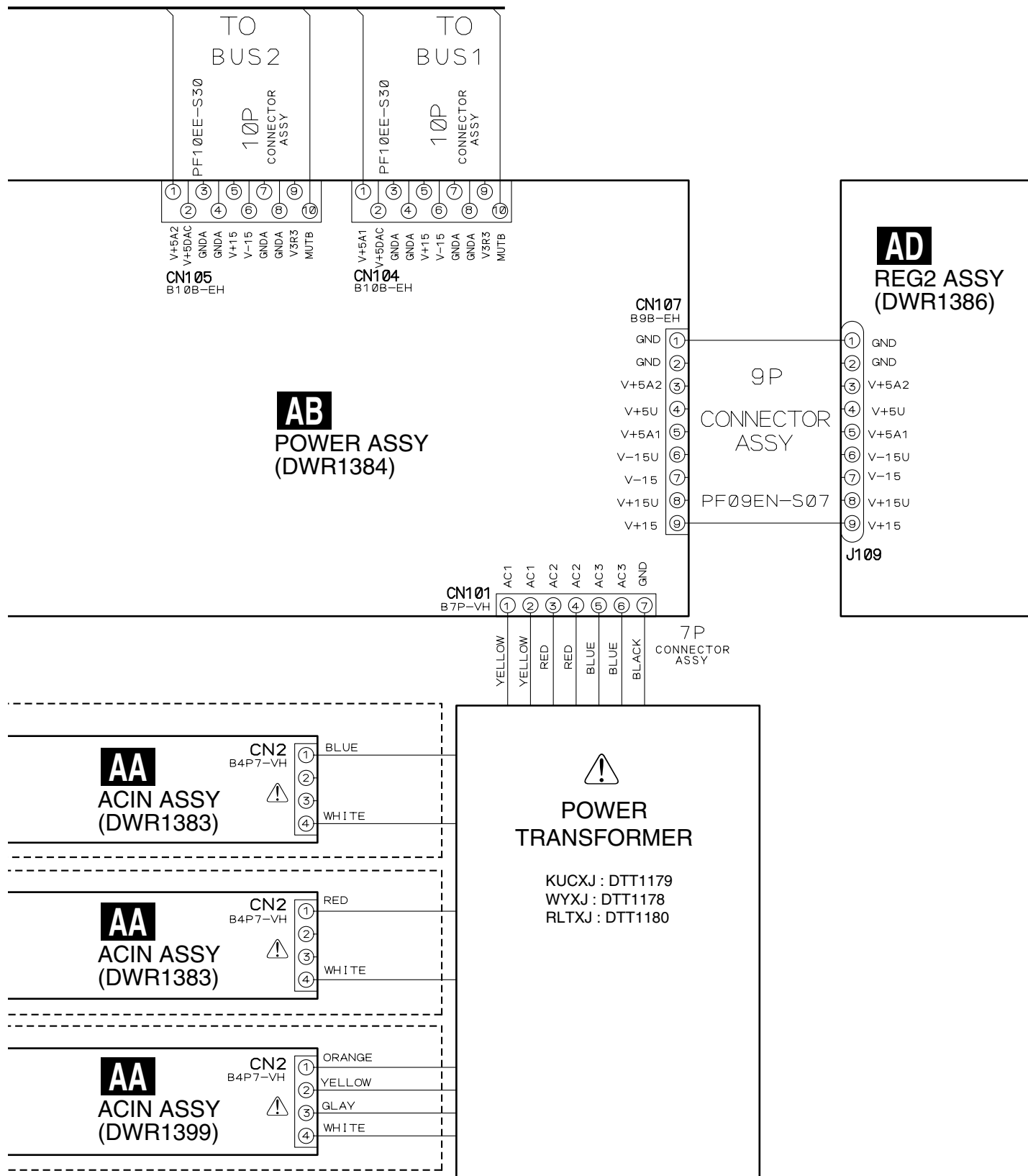
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- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts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



3.4 DIGITAL MAIN ASSY (1/4)

A 1/4 DIGITAL MAIN ASSY (DWG1586)

- (CH*Y) : AUDIO SIGNAL ROUTE (CH* Y ch)
- (CH*D) : AUDIO SIGNAL ROUTE (CH* Digital ch)
- (RND) : AUDIO SIGNAL ROUTE (Return Digital ch)
- (SDD) : AUDIO SIGNAL ROUTE (Send Digital ch)
- (BOD) : AUDIO SIGNAL ROUTE (Booth Digital ch)
- (RECD) : AUDIO SIGNAL ROUTE (Rec Digital ch)
- (MAD) : AUDIO SIGNAL ROUTE (Master Digital ch)
- (MICD) : AUDIO SIGNAL ROUTE (Mic Digital ch)
- (HP) : AUDIO SIGNAL ROUTE (Phones L ch)
- (D) : AUDIO SIGNAL ROUTE (Digital ch)

A 2/4

A 4/4

A 4/4

A 4/4

A 3/4

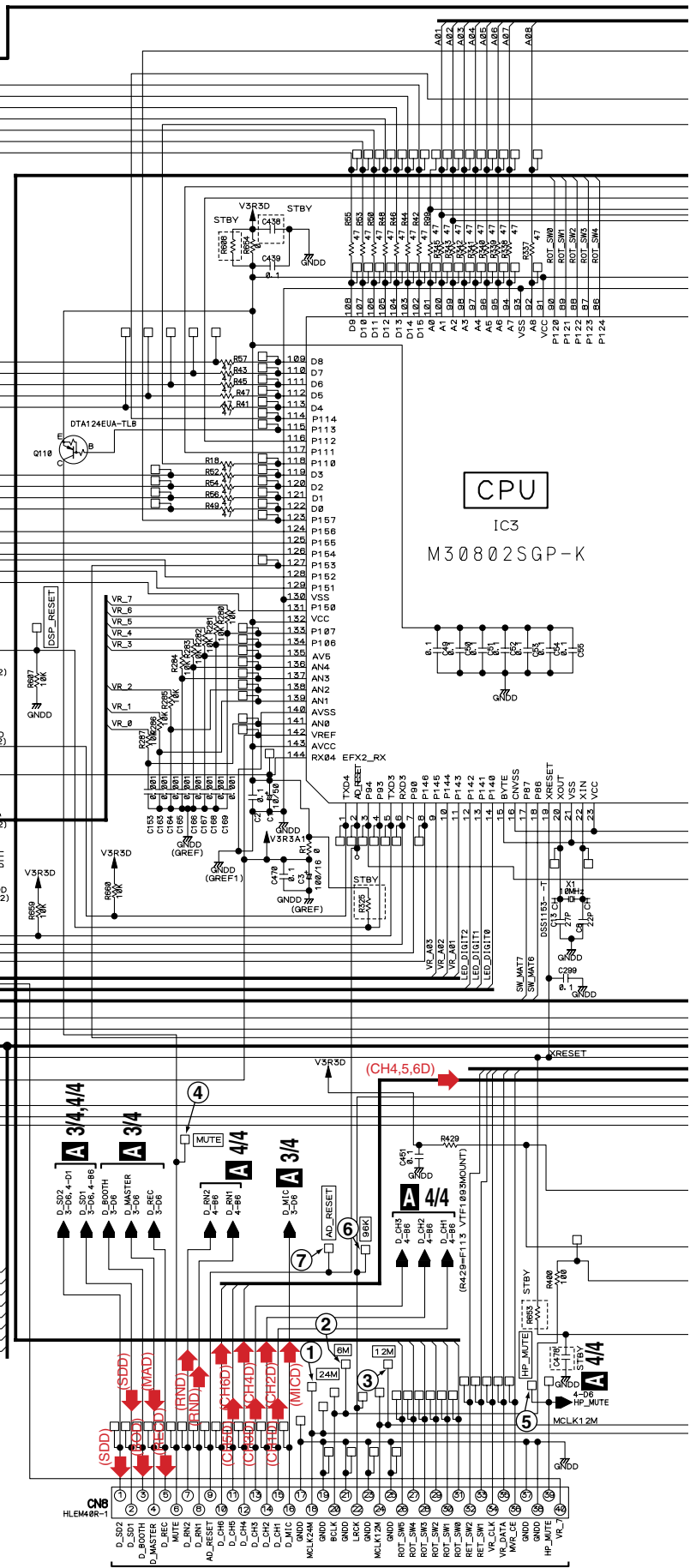
A 4/4

S CN4009

P CN4501

A 4/4

A 1/4



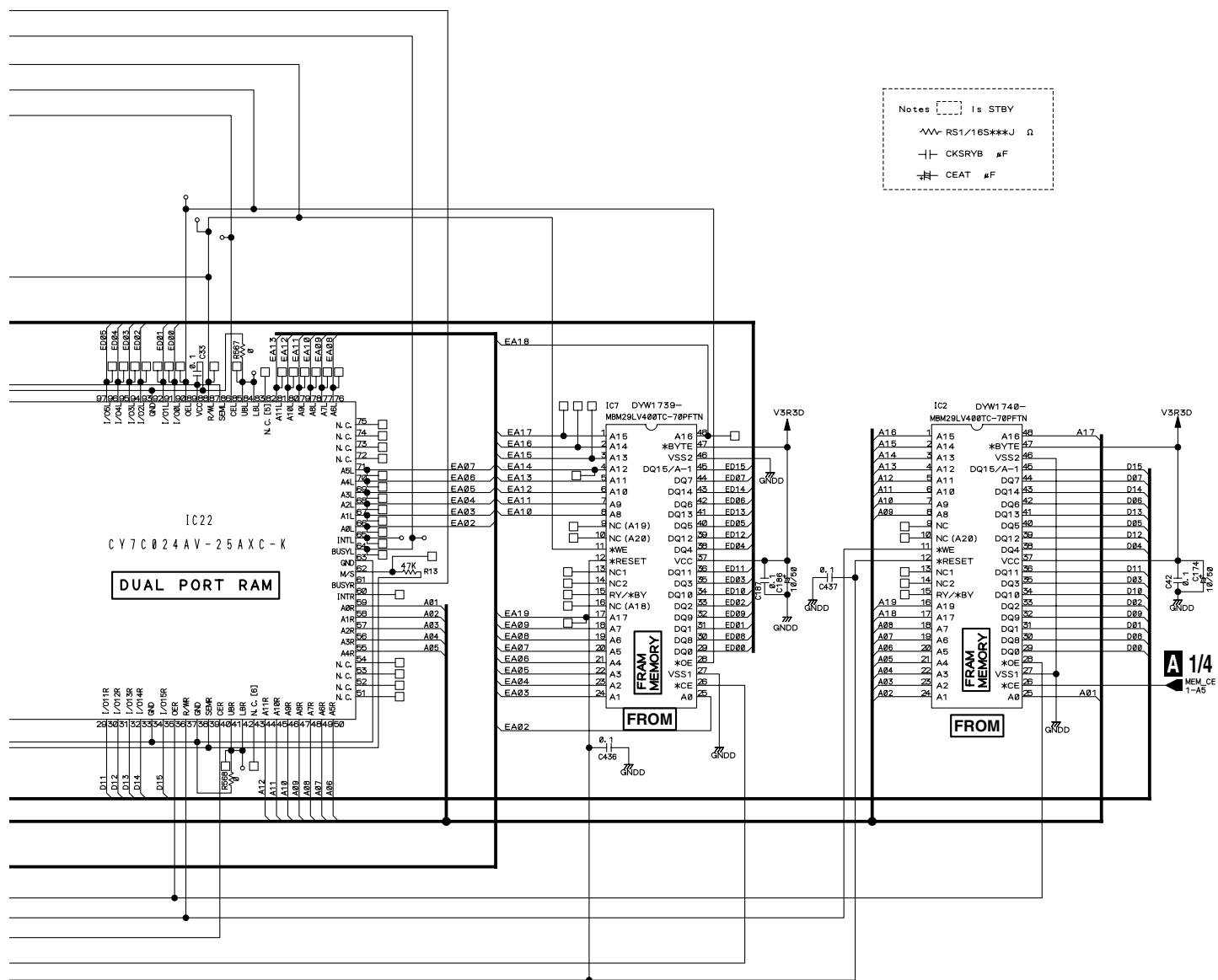


A 1/4

△

A





4



A



△



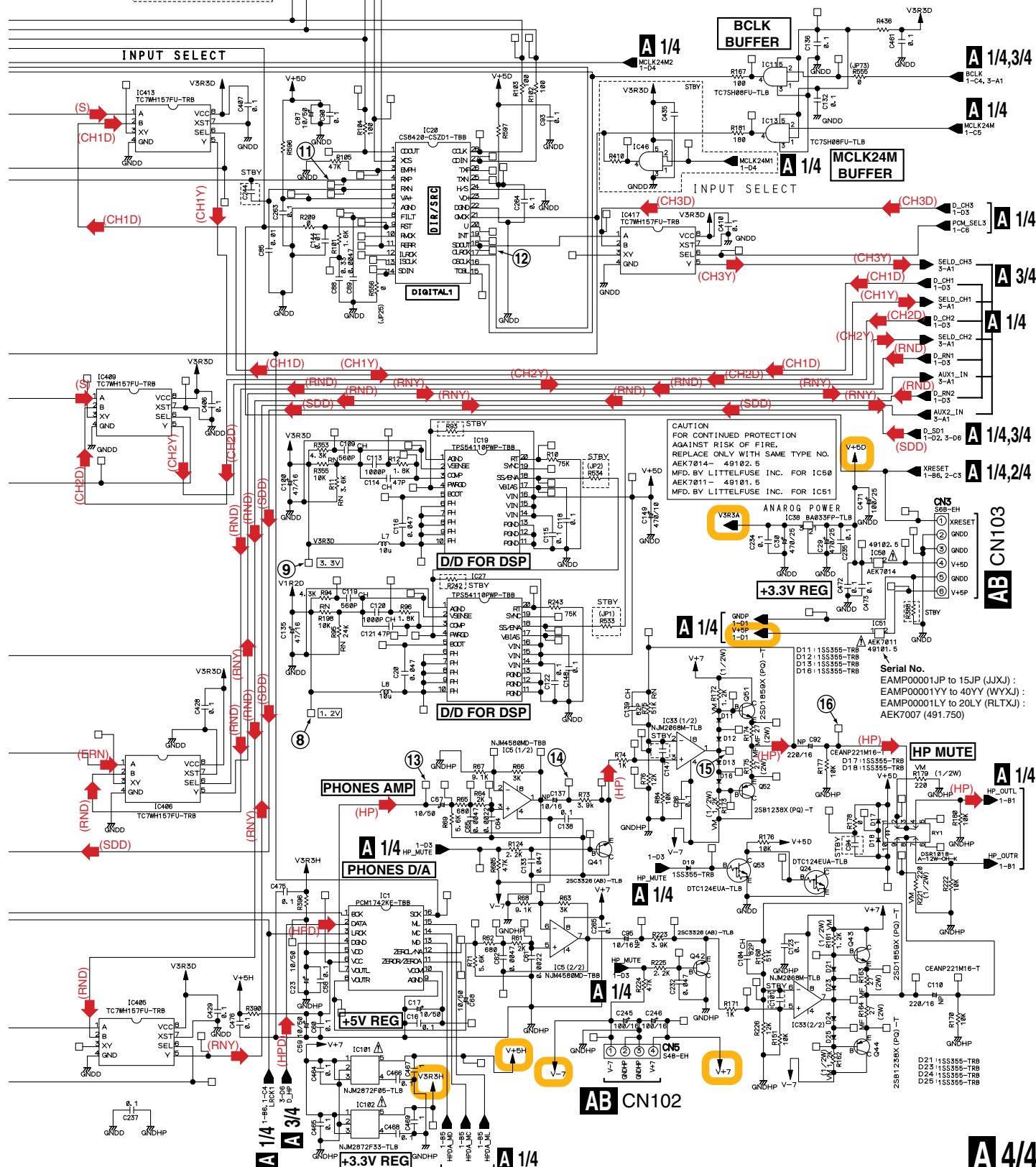
A 4/4 DIGITAL MAIN ASSY (DWG1586)

Notes: Is STBY
 VM $\sim$ RD1/2VM*** Ω
 RN $\sim$ RN1/16SE*** Ω
 MF $\sim$ RS2LMF*** Ω
 $\sim$ RS1/16S*** Ω
 CH $\sim$ CCSRCH F
 MA $\sim$ CQMA F
 LA $\sim$ CFTLA F
 CKSRVB μ F
 CEAT μ F
 CEANP μ F

A 1/4

(CH*Y) : AUDIO SIGNAL ROUTE (CH* Y ch)
 (CH*D) : AUDIO SIGNAL ROUTE (CH* Digital ch)
 (ESD) : AUDIO SIGNAL ROUTE (Effect Send L ch)
 (ERN) : AUDIO SIGNAL ROUTE (Effect Return L ch)
 (S) : AUDIO SIGNAL ROUTE (Sound L ch)

(HP) : AUDIO SIGNAL ROUTE (Phones L ch)
 (HPD) : AUDIO SIGNAL ROUTE (Phones Digital ch)
 (SDD) : AUDIO SIGNAL ROUTE (Send Digital ch)
 (RND) : AUDIO SIGNAL ROUTE (Return Digital ch)
 (RNY) : AUDIO SIGNAL ROUTE (Return Y ch)

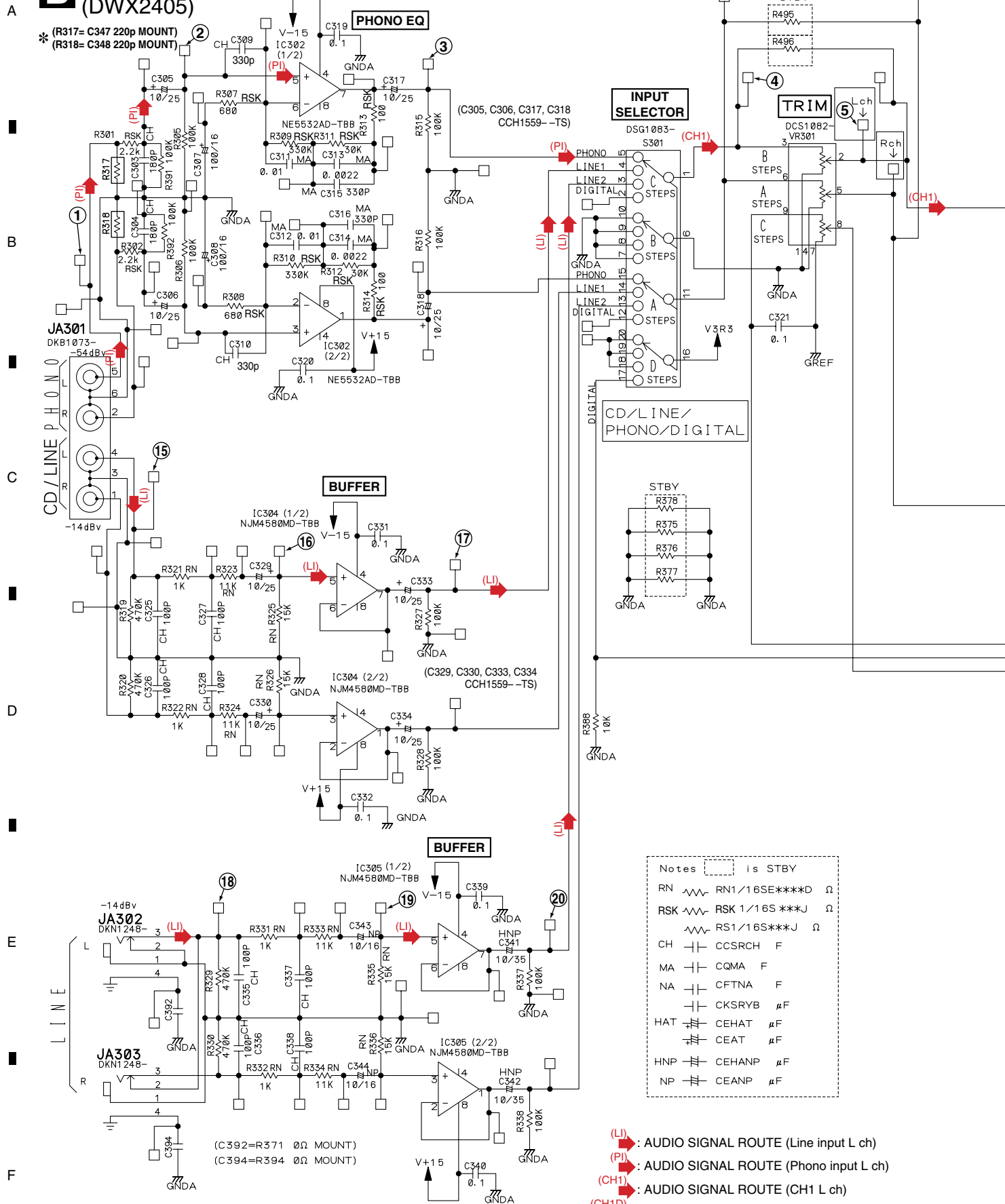


A
B
C
D
E
F

3.8 CH1/CH2 INPUT ASSY

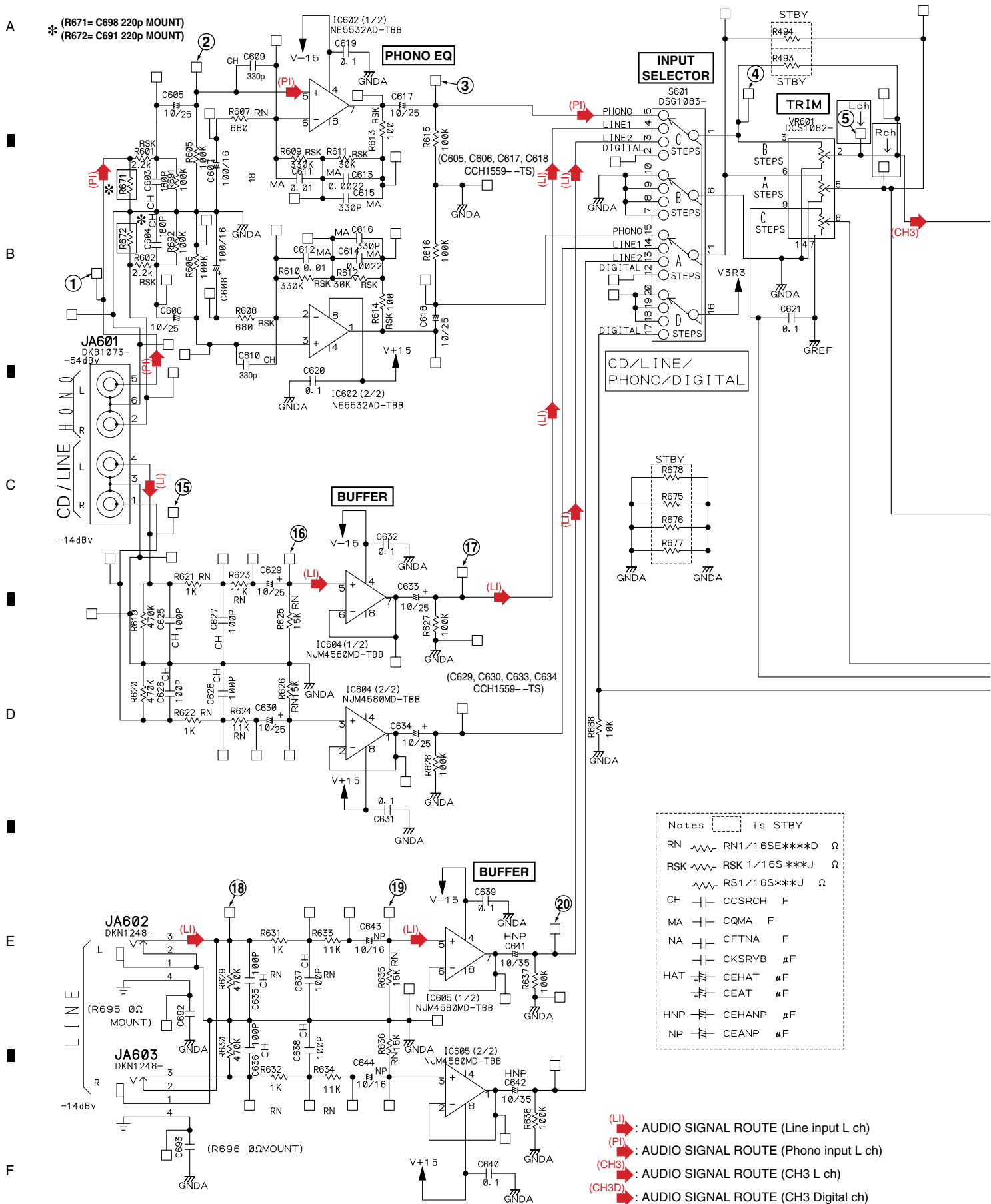
B CH1/CH2 INPUT ASSY (DWX2405)

* (R317= C347 220p MOUNT)
(R318= C348 220p MOUNT)





3.9 CH3/CH4 INPUT ASSY



C



* (R417-C498 220P MOUNT)
* (R418-C499 220P MOUNT)



A



C

□

E

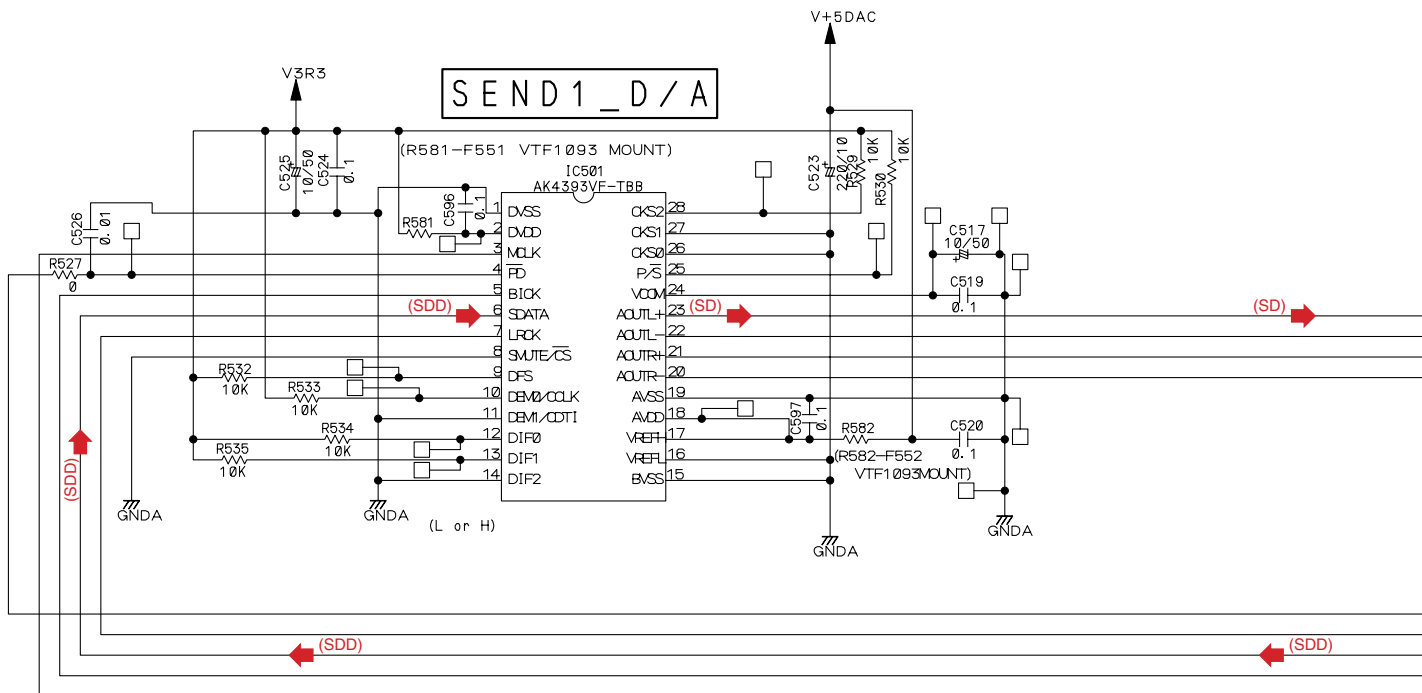
F

D

3.11 SEND/RETURN ASSY

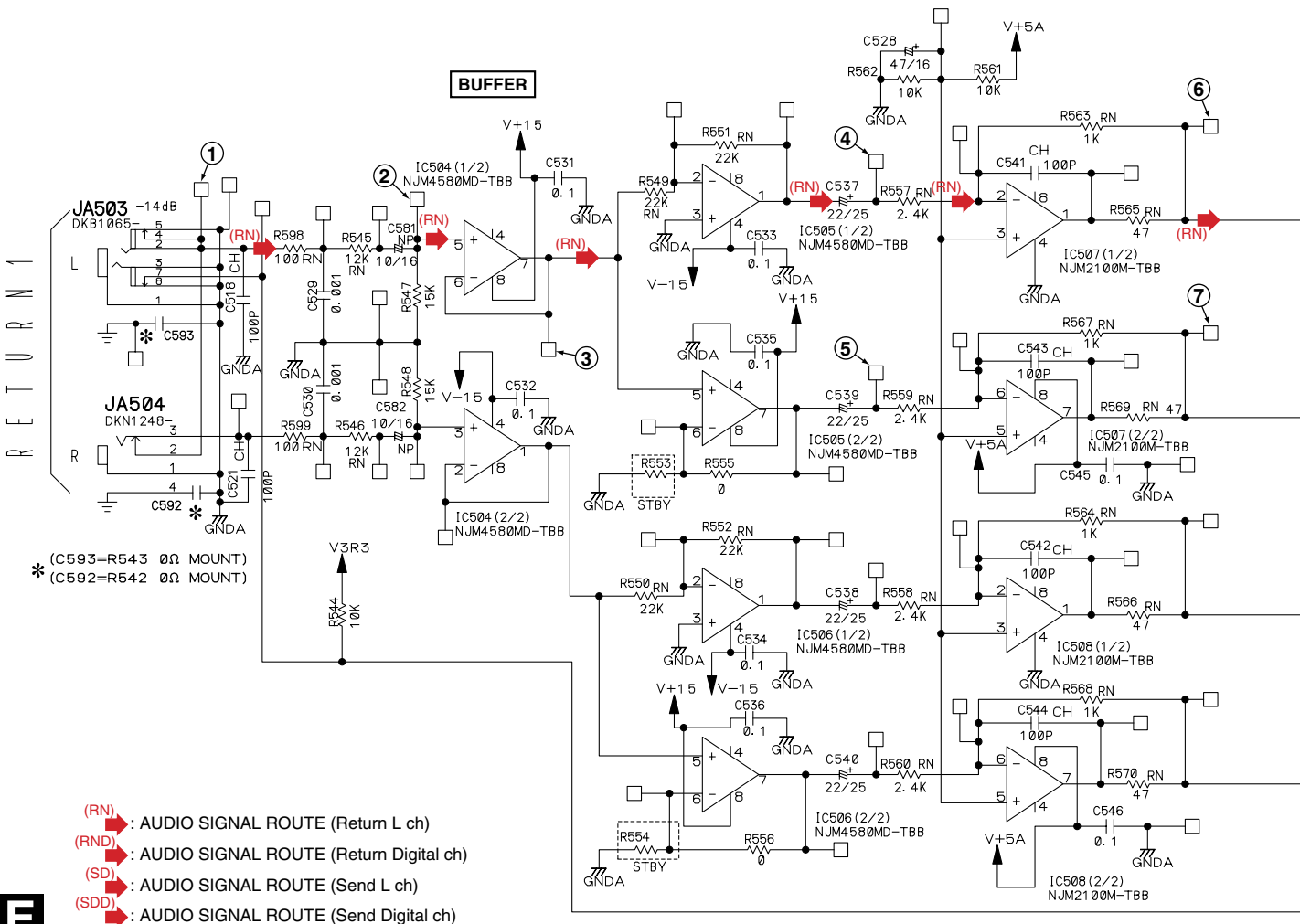
SEND/RETURN ASSY (DWX2408)

A



C

D



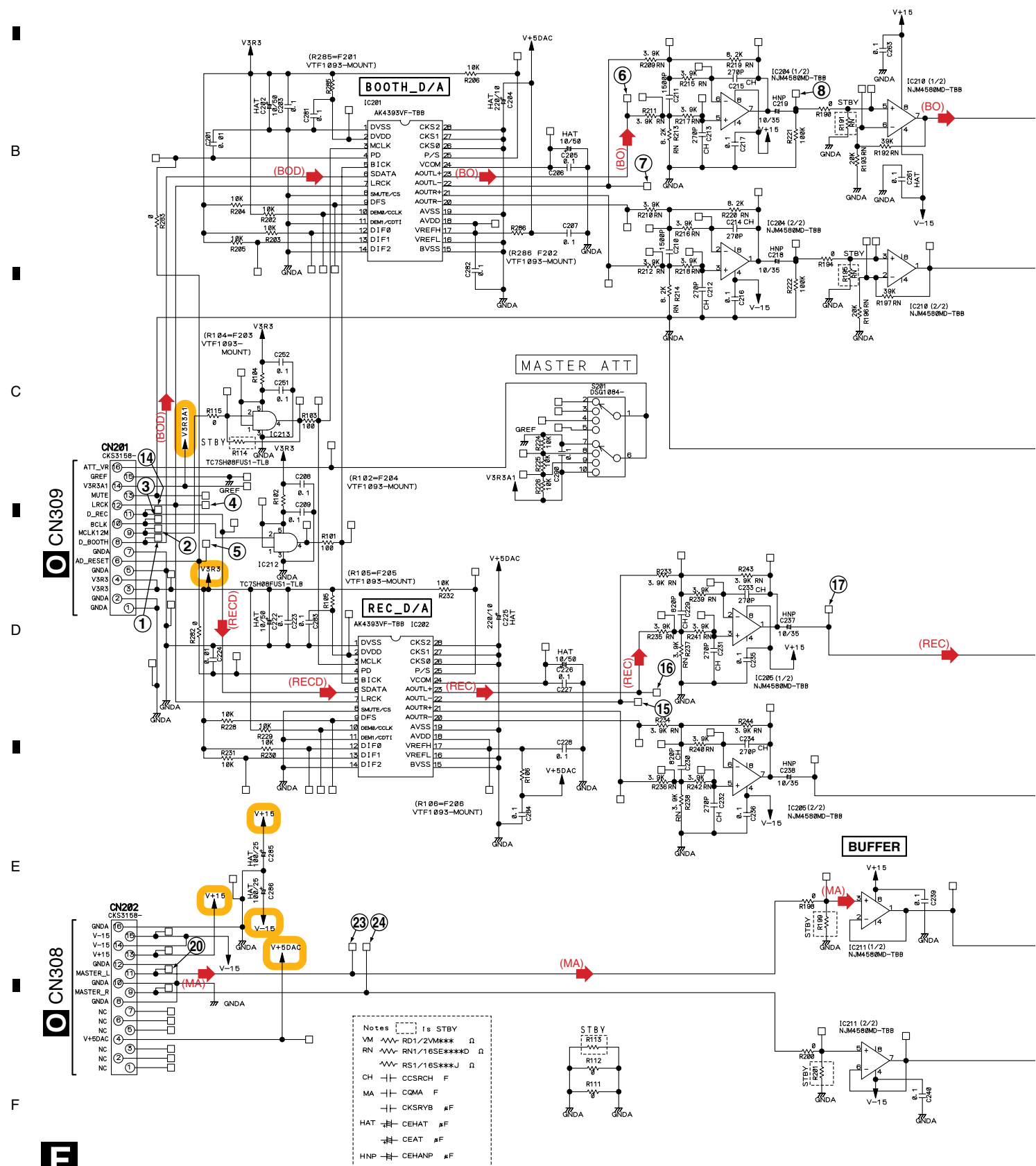
F





3.12 BOOTH/REC ASSY

F BOOTH/REC ASSY (DWX2409)



A

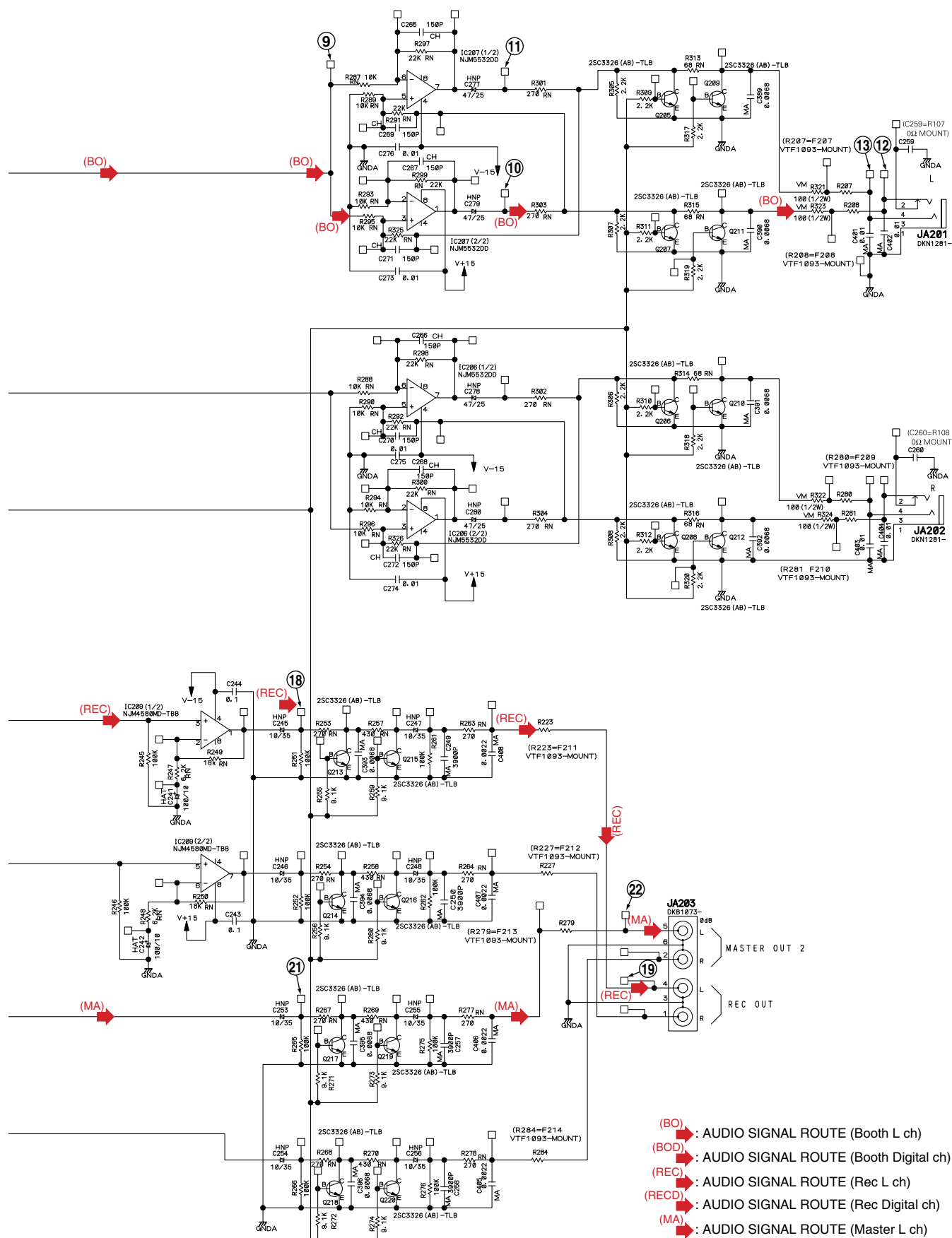
B

C

D

E

F



G MASTER ASSY
(DWX2410)



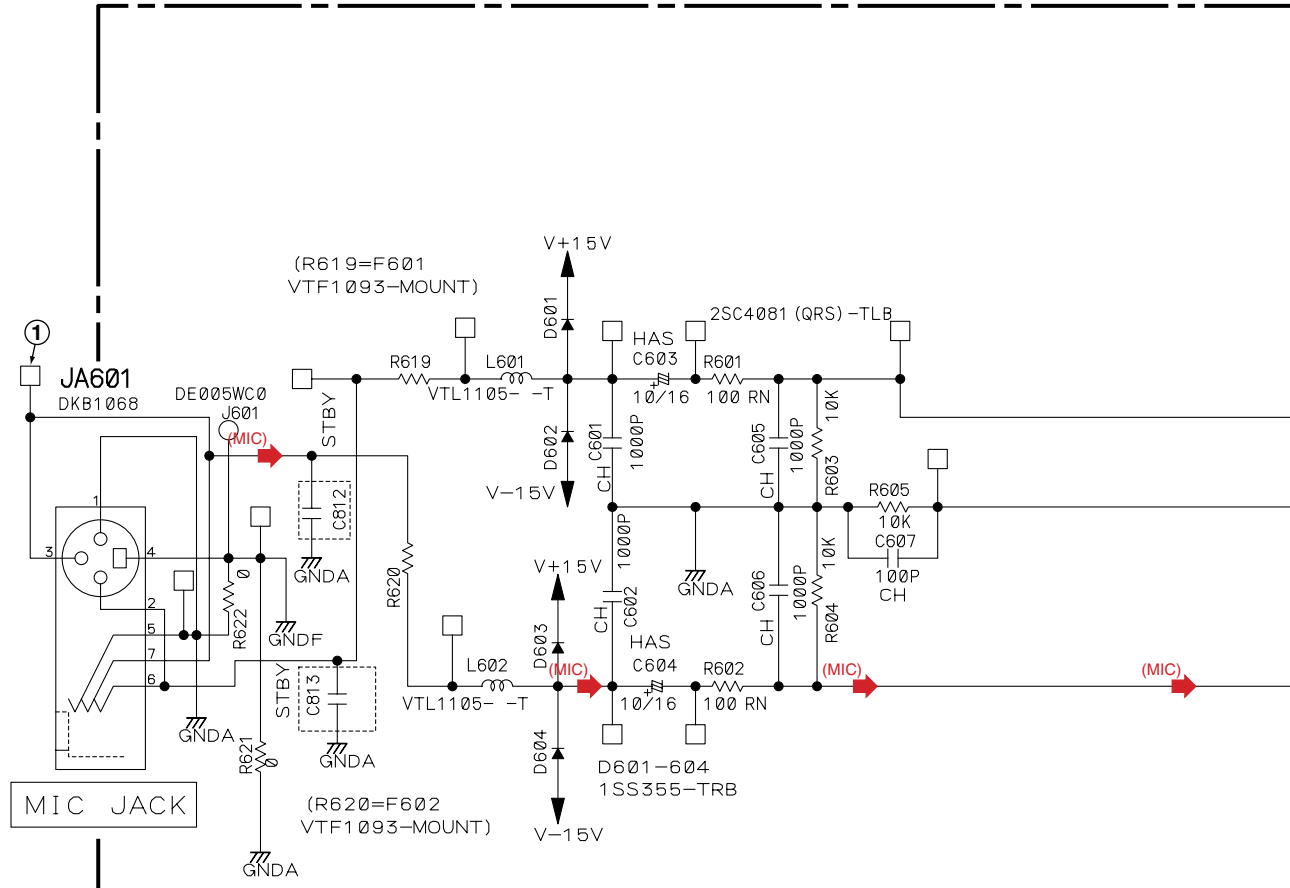
A



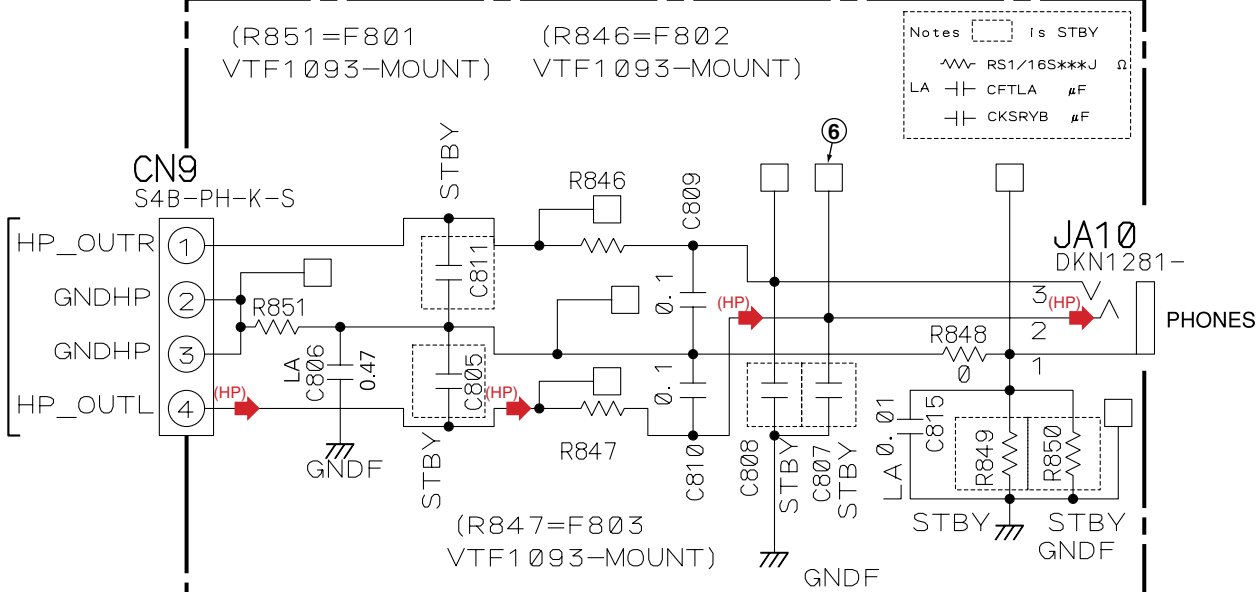
F

3.14 MIC, MIC VR and HP ASSYS

MIC ASSY (DWX2411)

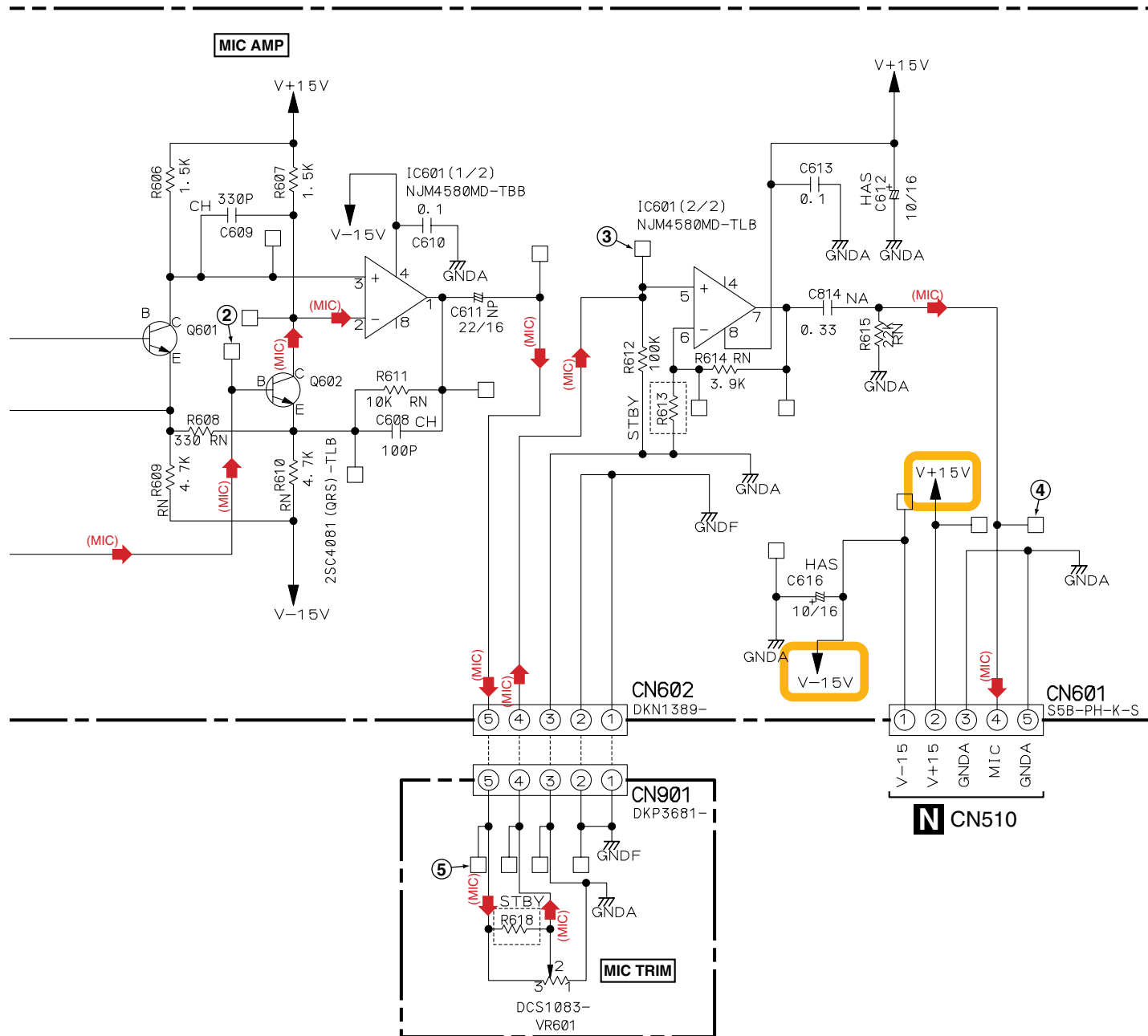


HP ASSY (DWX2412)



H J

(MIC) : AUDIO SIGNAL ROUTE (Mic L ch)
 (HP) : AUDIO SIGNAL ROUTE (Phones L ch)



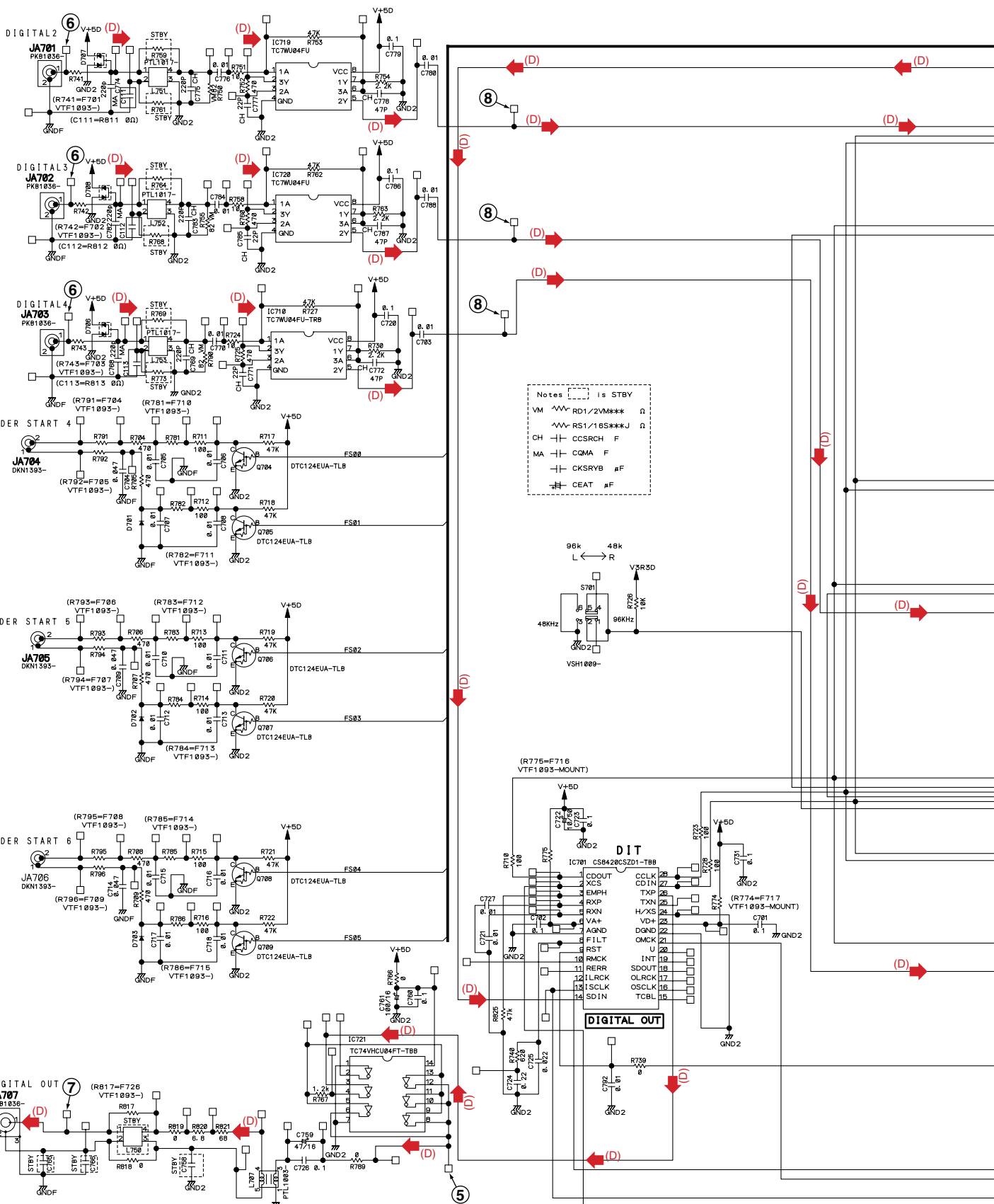
MIC VR ASSY (DWX2466)

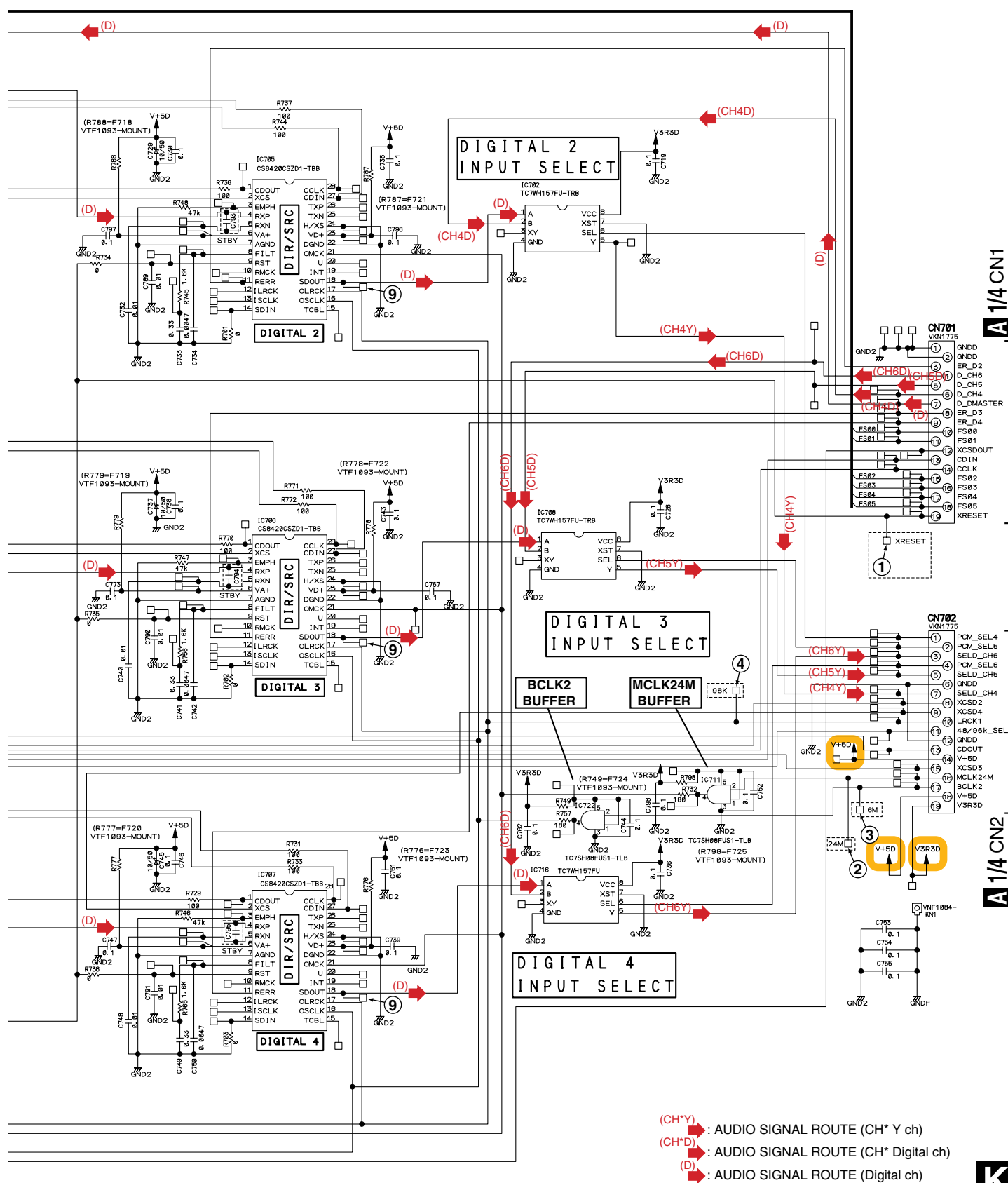
Notes			
[] is STBY			
RN	~	RN1/16SE****D	Ω
CH		CCSRCH	F
NA		CFTNA	F
		CKSRYB	μF
HAS		CEHAS	μF
NP		CEALNP	μF
		LA	CFTLA F
		MA	CQMA F
		HAT	CEHAT μF
			CEAT μF

3.15 DIGITAL SUB ASSY

K DIGITAL SUB ASSY (DWX2414)

A



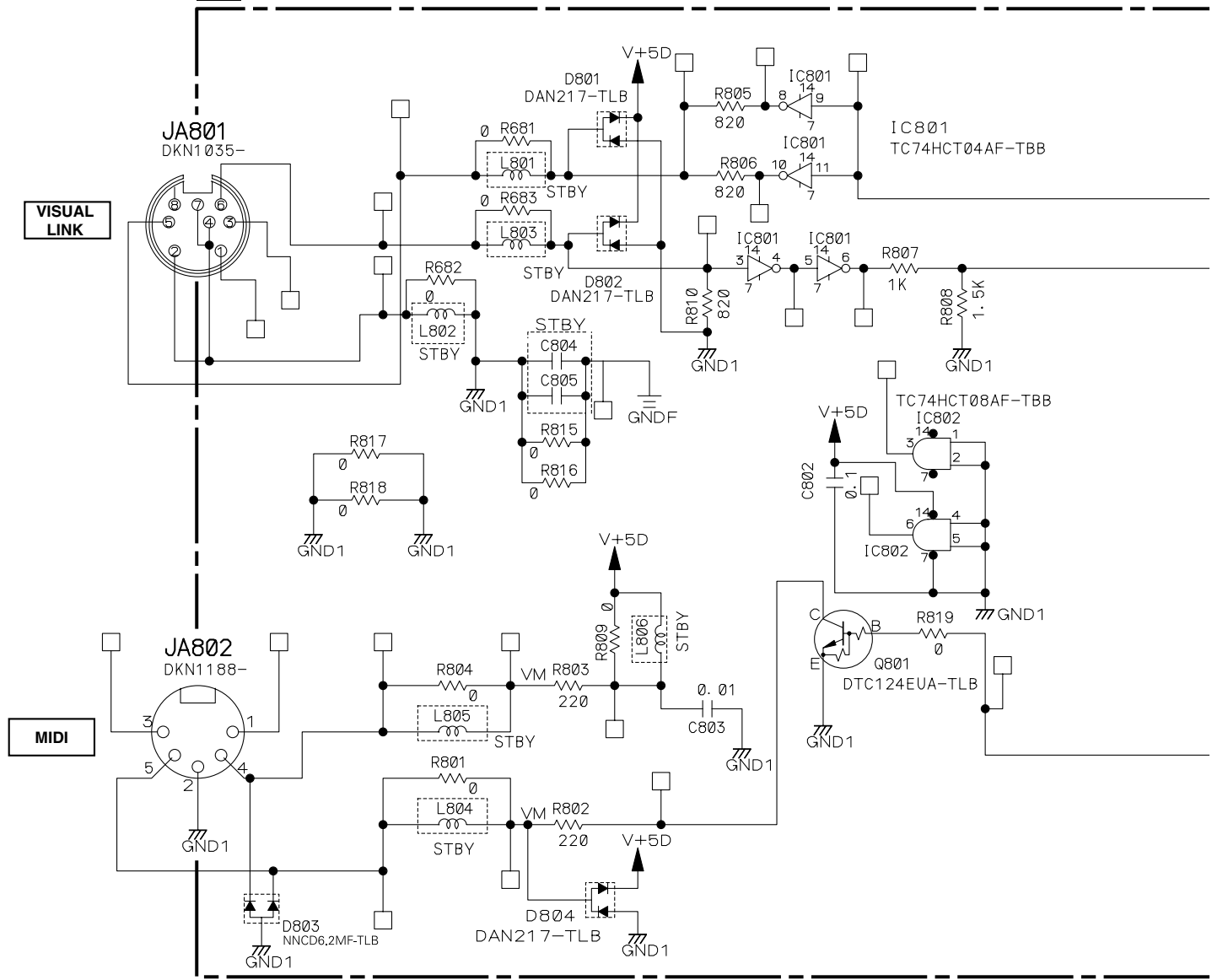


1 2 3 4

3.16 VISUAL LINK and MASTER FADER ASSYS

A

L VISUAL LINK ASSY (DWX2413)

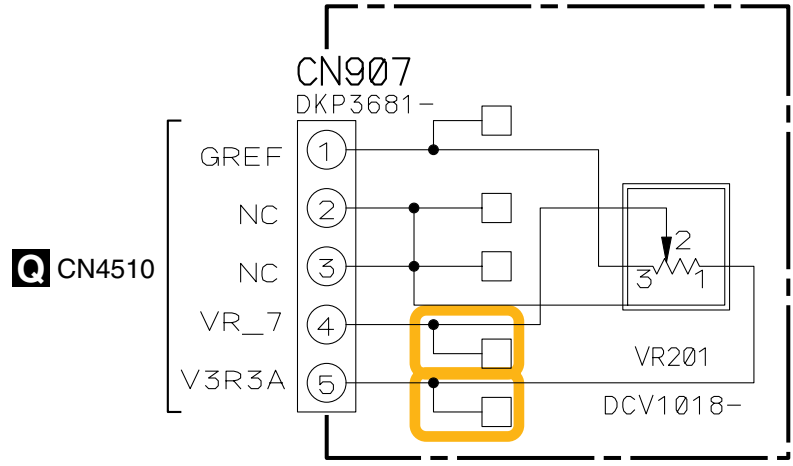


B

C

D

M MASTER FADER ASSY (DWX2421)



E

F

L **M**

3.17 BUS1 ASSY

BUS1 ASSY (DWX2422)

A

B

C

D

E

F

CN501

CN301

E CN501

E CN508

B CN306

MCLK24M
BUFFER

A 1/4 CN8

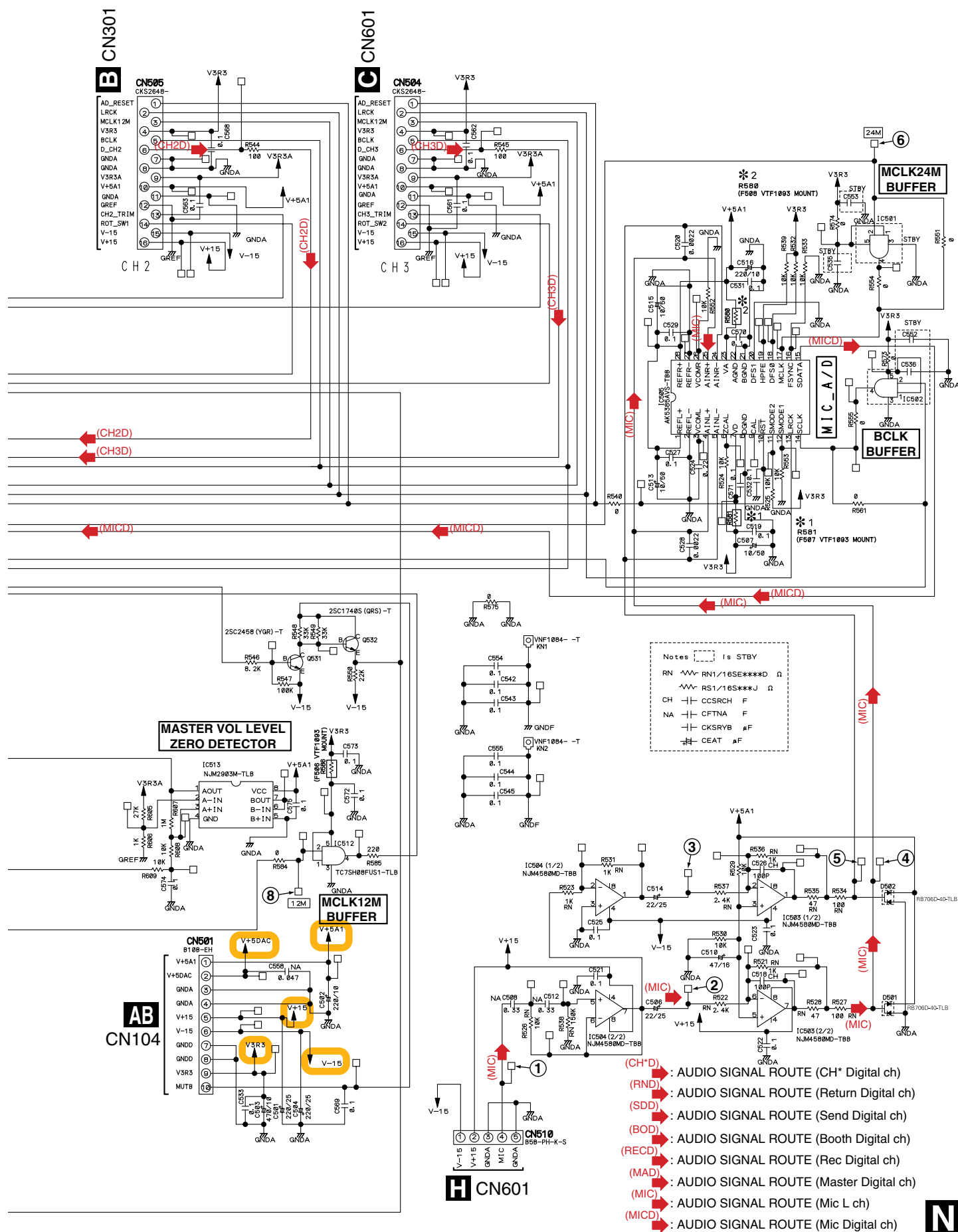
MCLK12M
BUFFER

LCK BUFFER

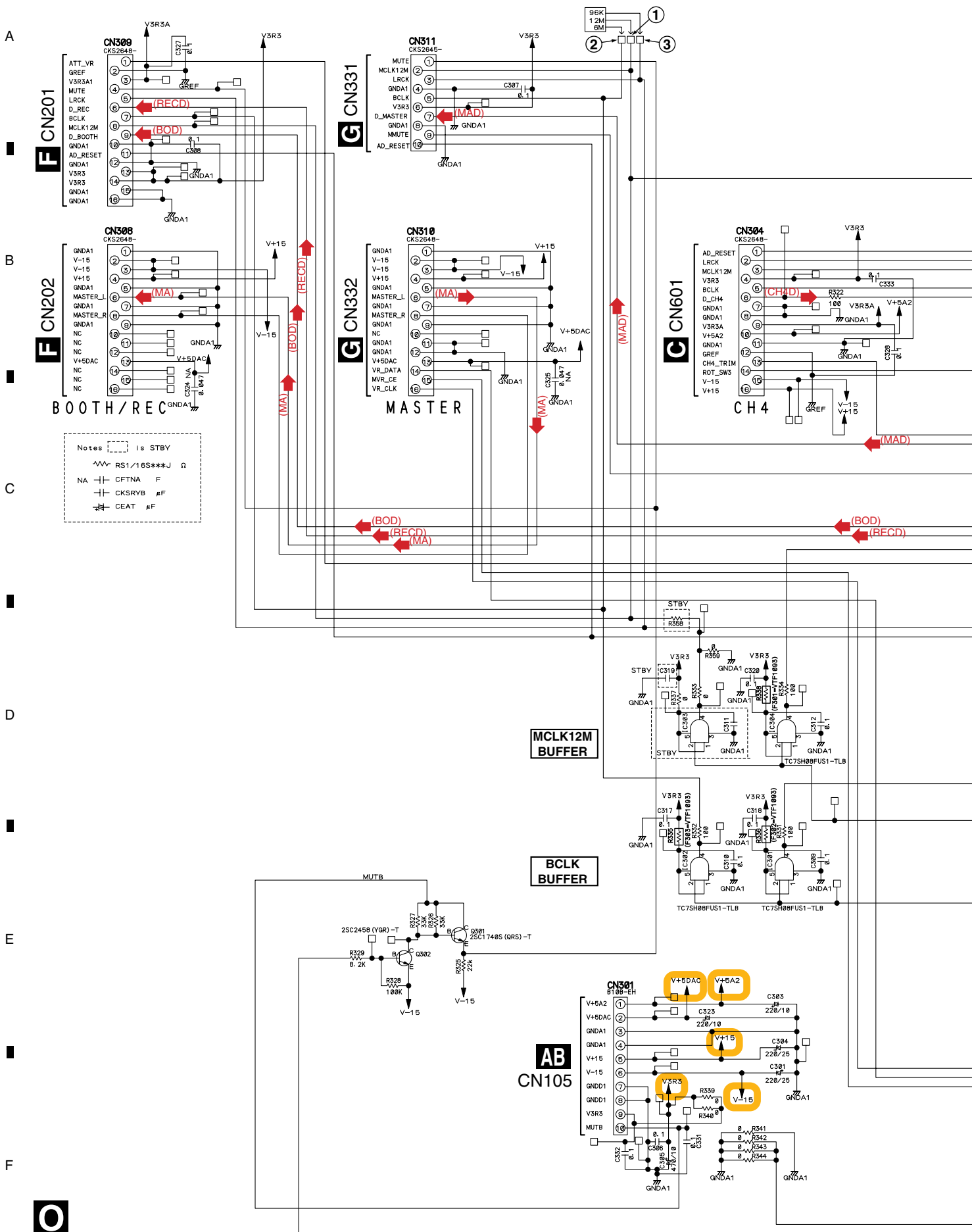
BLCK BUFFER

CN303

CN302



3.18 BUS2 ASSY



A

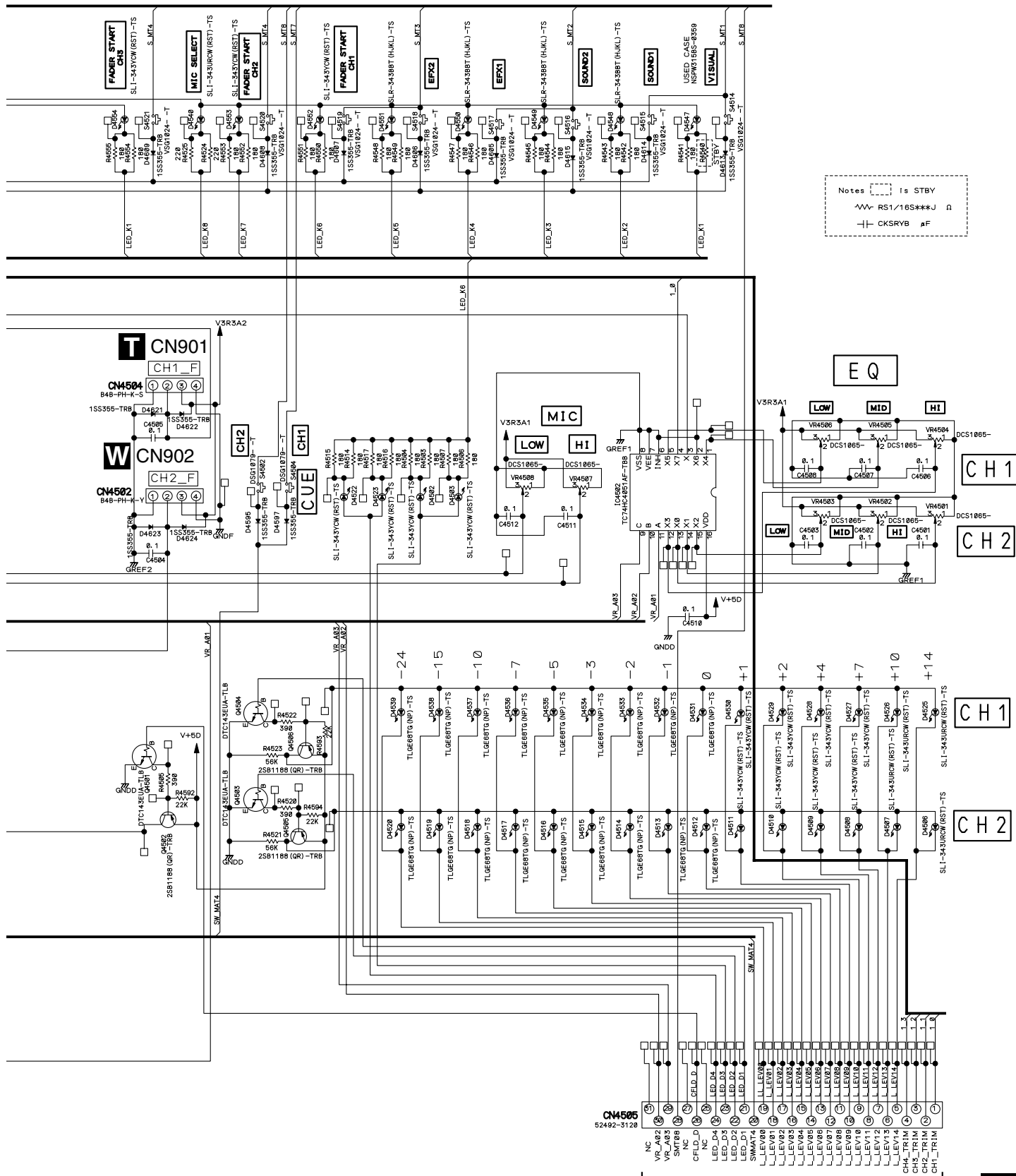


P PANEL1 ASSY (DWX2427)



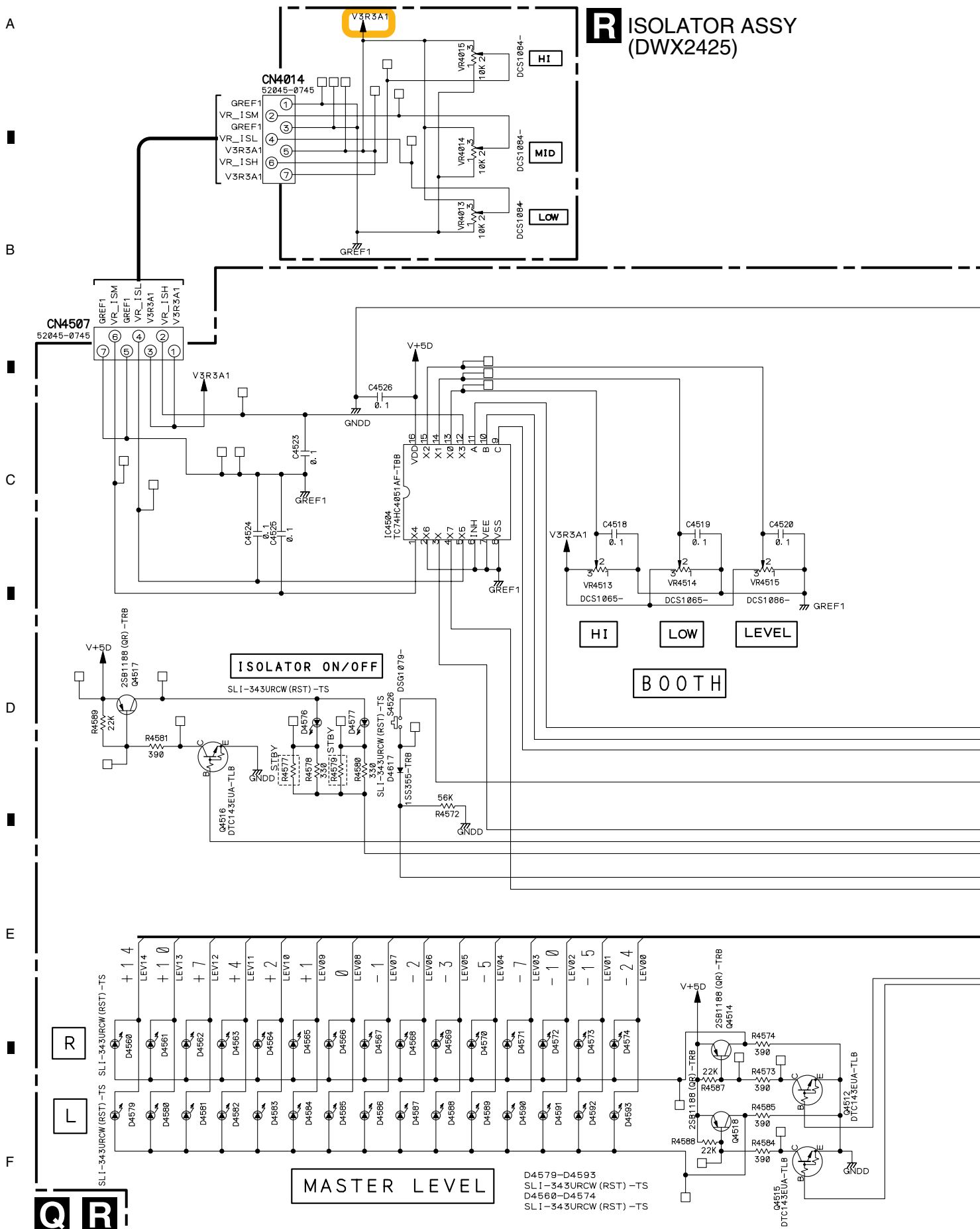
F A D E R S T A R T

LINK

**S** CN4012

P

3.20 PANEL2 and ISOLATOR ASSYS

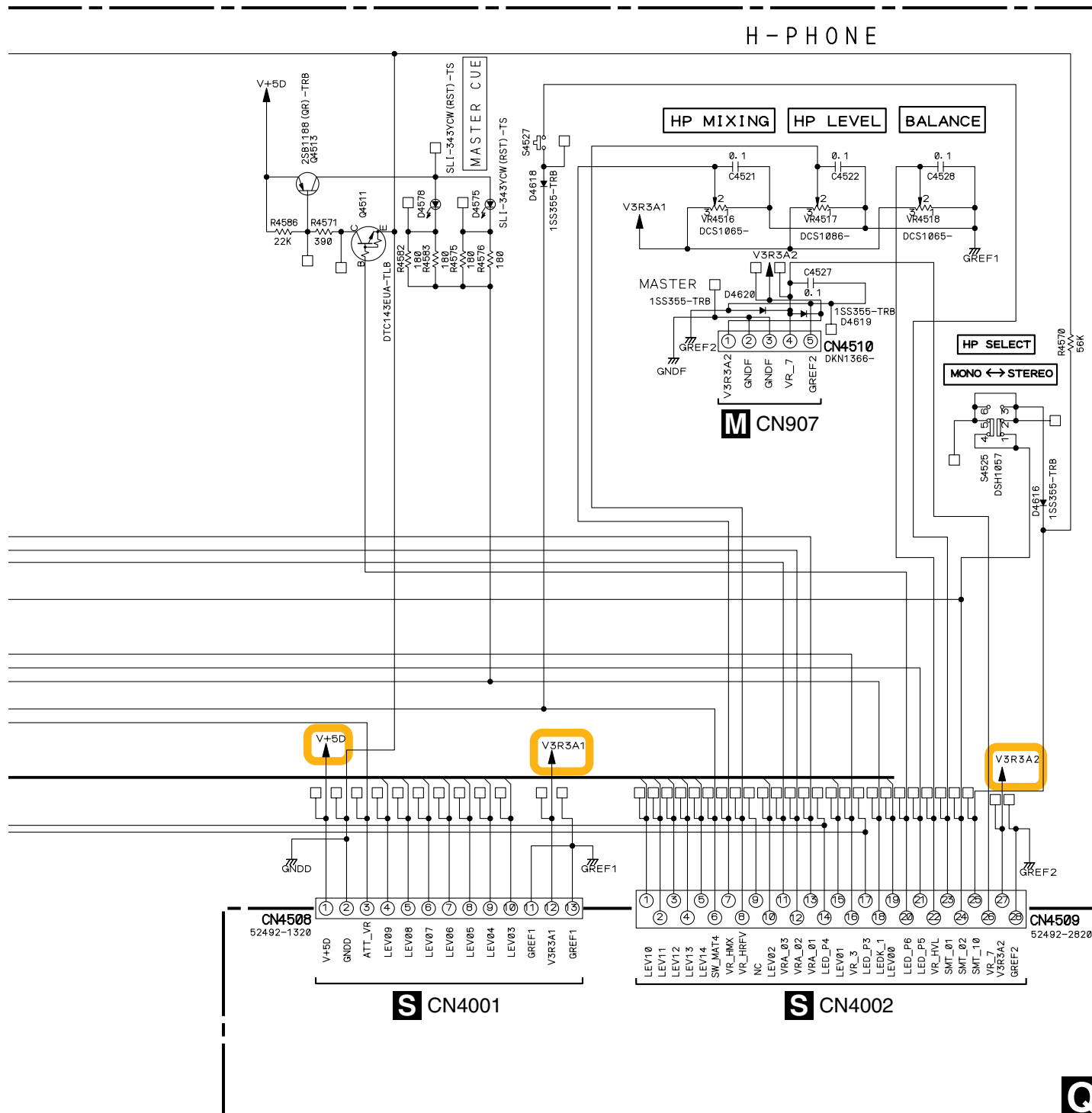


Notes ☐ is STBY

RS1/16S***J Ω

CKSRYB μF

Q PANEL2 ASSY (DWX2428)



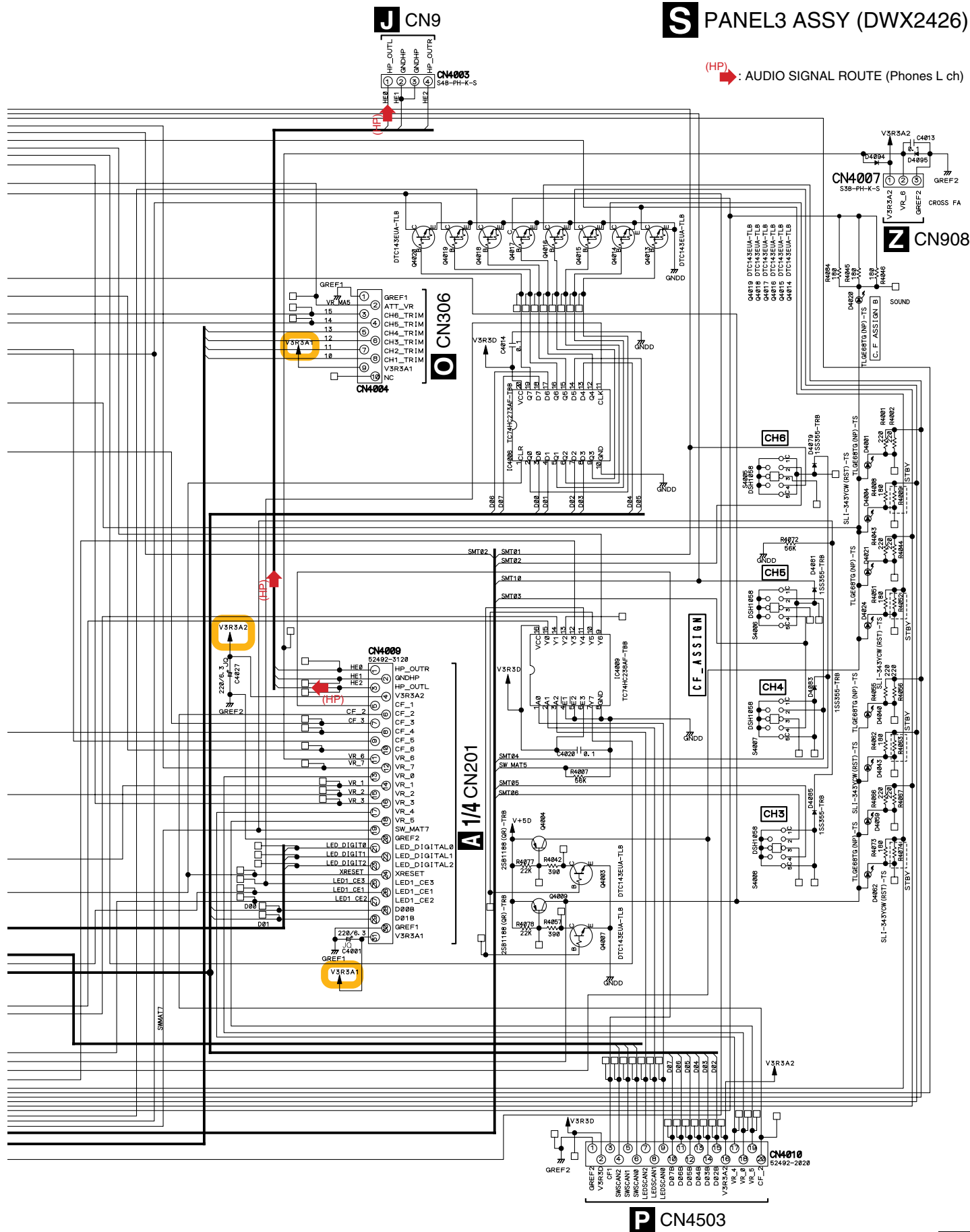
DJM-1000

△



S PANEL3 ASSY (DWX2426)

(HP) : AUDIO SIGNAL ROUTE (Phones L ch)



1234

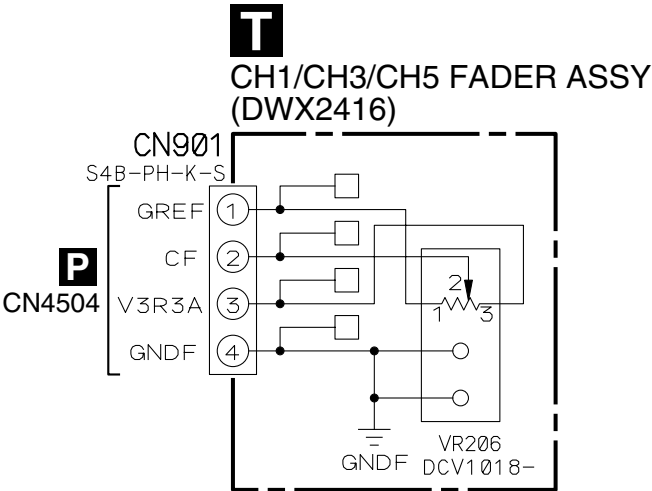
3.22 CH1/CH3/CH5 FADER, CH2/CH4/CH6 FADER and CROSS FADER ASSYS

A

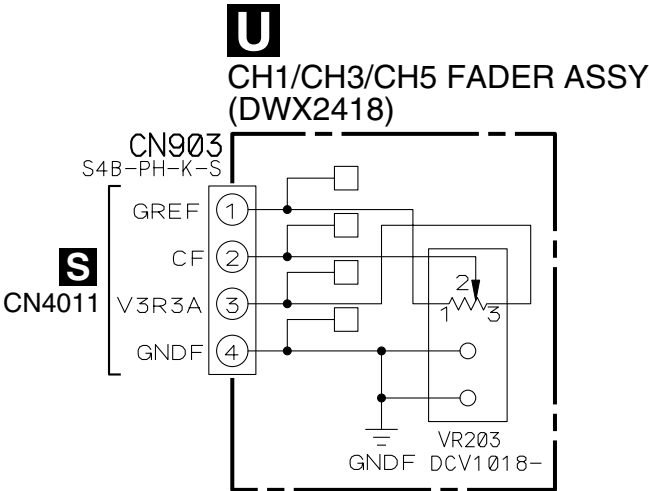
Note: Although the ref. numbers for the CH1/CH3/CH5 FADER Assys (DWX2416, DWX2418, and DWX2443) are different, they are identical, and their functions in the circuitry are the same. You can connect to either of them.

Note: Although the ref. numbers for the CH2/CH4/CH6 FADER Assys (DWX2415, DWX2417, and DWX2442) are different, they are identical, and their functions in the circuitry are the same. You can connect to either of them.

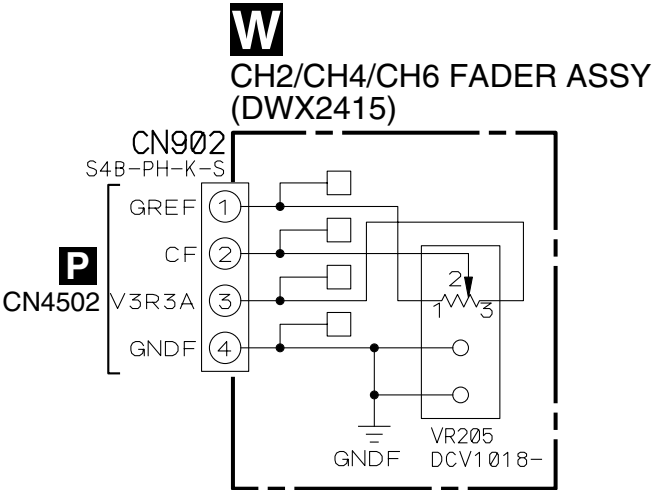
B



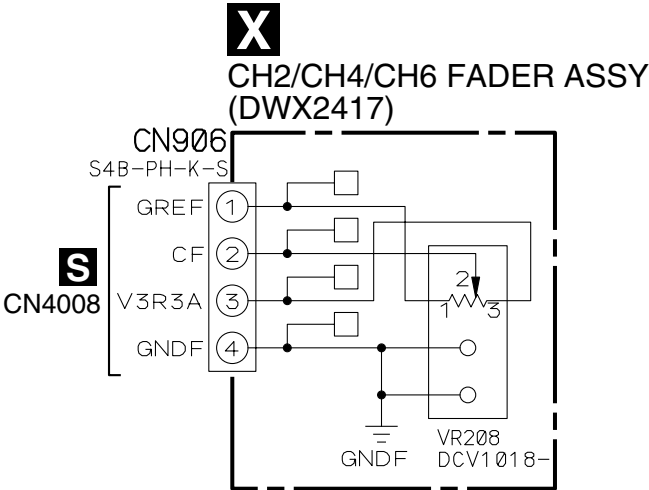
C



D

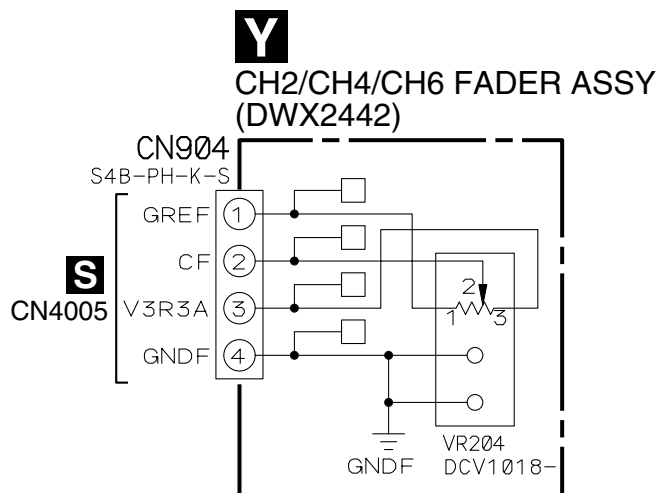
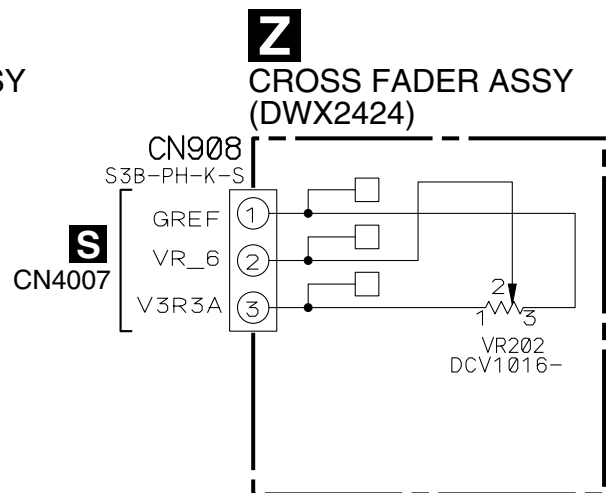
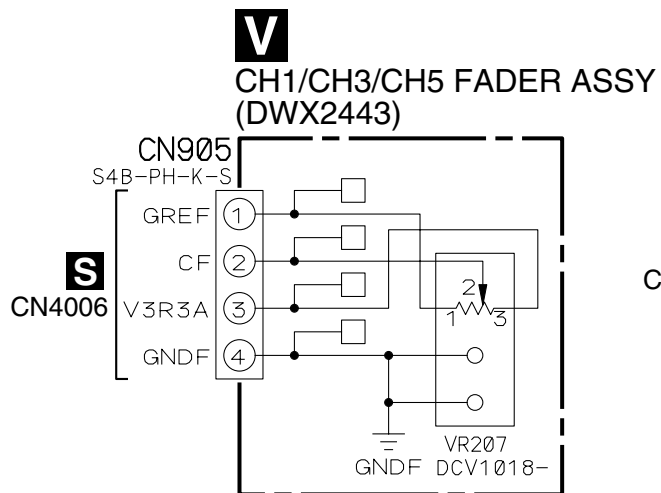


E



F

TUWX



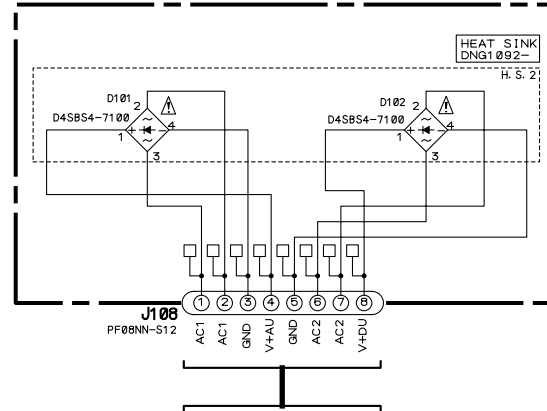
3.23 ACIN, POWER, REG1 and REG2 ASSYS

• NOTE FOR FUSE REPLACEMENT

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

AC REG1 ASSY (DWR1385)

Notes: is STBY
~W~ RS1/16S***J Ω
-||- CKSRYB μ F



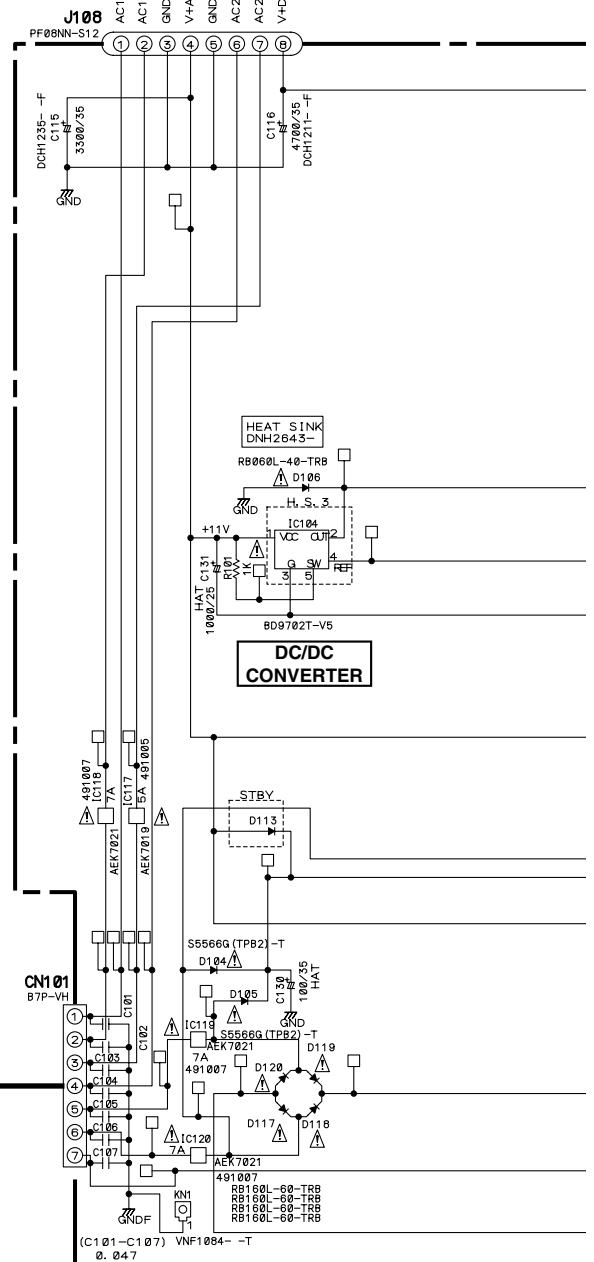
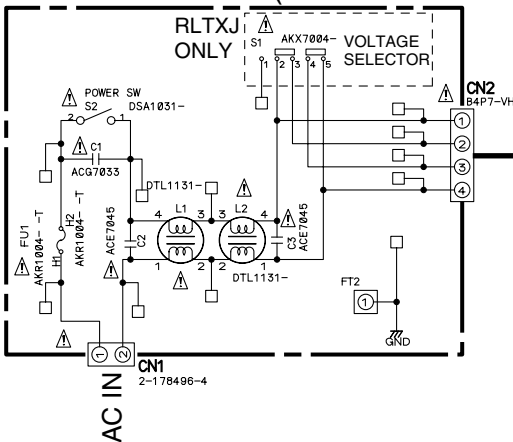
CAUTION

FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO.
AEK7002- 491.250
MFD. BY LITTELFUSE INC. FOR IC121
AEK7003- 491.315
MFD. BY LITTELFUSE INC. FOR IC127/IC128
AEK7007- 491.750
MFD. BY LITTELFUSE INC. FOR IC111/IC122/123
IC124/125

AEK7013- 491002
MFD. BY LITTELFUSE INC. FOR IC110
AEK7014- 49102.5
MFD. BY LITTELFUSE INC. FOR IC112/IC113
AEK7019- 491005
MFD. BY LITTELFUSE INC. FOR IC117
AEK7021- 491007
MFD. BY LITTELFUSE INC. FOR IC118/IC119/IC120

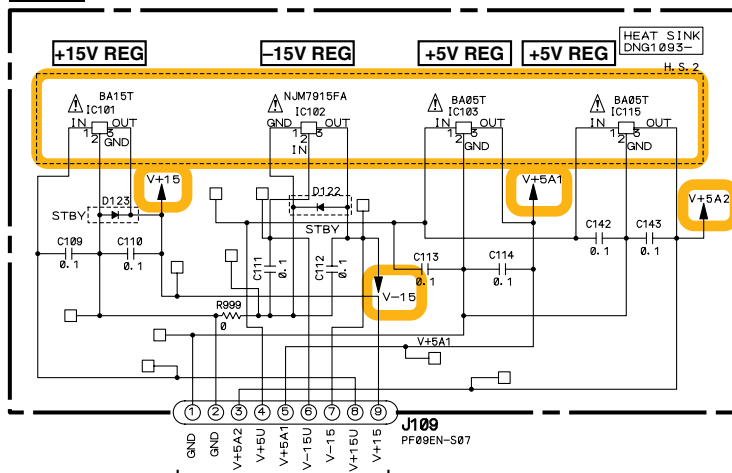
Notes: is STBY
RN ~W~ RN1/16SE****D Ω
~W~ RS1/16S***J Ω
CH -||- CCSRCH F
-||- CKSRYB μ F
HAT -||- CEHAT μ F
HNP -||- CEHNP μ F

AA ACIN ASSY (KUCXJ, WYXJ : DWR1383) (RLTXJ : DWR1399)

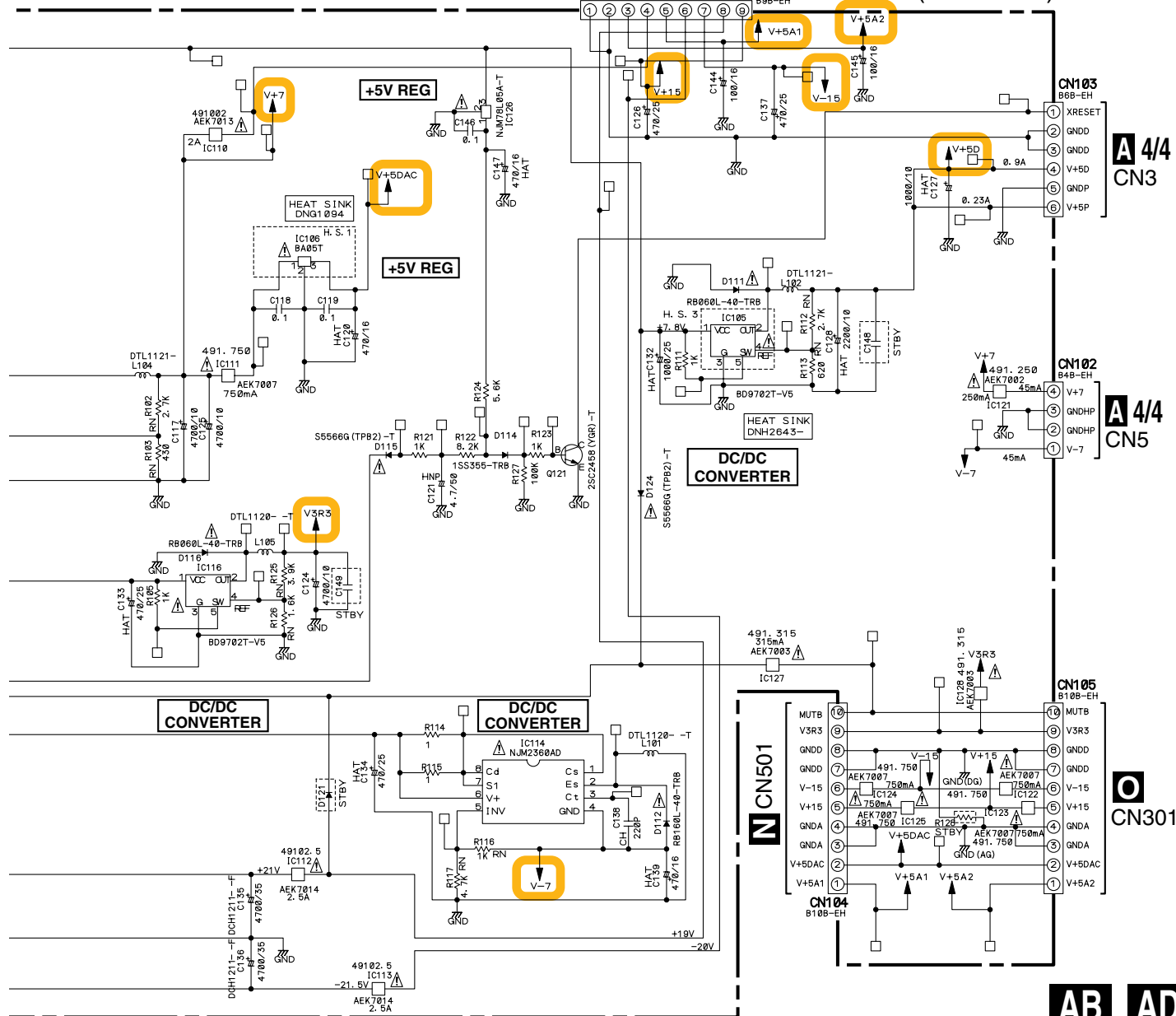


AD REG2 ASSY (DWR1386)

Notes  is STBY
 RS1/16S***J Ω
 CKSRYB μF



AB POWER ASSY (DWR1384)



1

3.24 VOLTAGES

2

Measurement Condition

A

Top panel

	CH					
CH	CH1	CH2	CH3	CH4	CH5	CH6
Input signal	No input	No input	No input	No input	No input	No input
Input selector	CD/LINE	CD/LINE	CD/LINE	CD/LINE	CD/LINE	CD/LINE
TRIM	MAX	MAX	MAX	MAX	MAX	MAX
EQ HI	MID	MID	MID	MID	MID	MID
EQ MID	MID	MID	MID	MID	MID	MID
EQ LO	MID	MID	MID	MID	MID	MID
HP CUE	OFF	OFF	OFF	OFF	OFF	OFF
CH FADER	MAX	MAX	MAX	MAX	MAX	MAX
C.F ASSGIN	THRU	THRU	THRU	THRU	THRU	THRU

LINK	
VISUAL	OFF
SOUND1	
SOUND2	
EFX1	
EFX2	

MIC	
Input signal	No input
TRIM	MAX
EQ HI	MID
EQ LO	MID
MIC	OFF

FADER START	
CH-1	OFF
CH-2	
CH-3	
CH-4	
CH-5	
CH-6	

ISOLATOR	
ISOLATOR ON	OFF
ISOLATOR HI	MID
ISOLATOR MID	MID
ISOLATOR LOW	MID

BOOTH	
BOOTH EQ HI	MID
BOOTH EQ LOW	MID
BOOTH LEVEL	MAX

D

S/R		
CH	S/R1	S/R2
Input signal	No input	No input
HP CUE	OFF	OFF
PRE/POST/AUX	PRE	PRE
SELECTOR	CH1	CH1
LEVEL	MAX	MAX
S/R ON	OFF	OFF

MASTER	
HP CUE	OFF
MASTER FADER	MAX
MASTER BALANCE	CENTER

E

CURVE ADJ.	
CH FADER	Clockwise
CROSS FADER	Counter clockwise

HP	
MONO/STEREO	STEREO
HP LEVEL	MAX
MIXING	CENTER

F

CROSS FADER	
C.F position	Center

MASTER.ATT	
ATT	0dB

A DIGITAL MAIN ASSY

IC1

Pin	Voltage (V)
1	1.677
2	1.6m
3	1.681
4	16.9m
5	3.289
6	5
7	2.517
8	2.472
9	-17m
10	2.493
11	3.287
12	3.287
13	0.7m
14	0.8m
15	3.349
16	1.71

IC2

Pin	Voltage (V)
1	3.333
2	30.6m
3	1.123
4	1.562
5	0.926
6	1.816
7	1.226
8	1.136
9	256m
10	0.435
11	3.353
12	3.319
13	275m
14	83m-1.021
15	209m
16	3.332
17	3.332
18	1.922
19	1.836
20	2.027
21	1.76
22	1.704
23	1.863
24	1.697
25	1.689
26	1.267
27	0.7m
28	2.233
29	1.325
30	1.316
31	1.679
32	1.798
33	1.423
34	1.311
35	1.601
36	1.469
37	3.358
38	1.793
39	1.825
40	1.854
41	1.721
42	1.911
43	1.579
44	2.304
45	2.077
46	0.7m
47	3.358
48	0.7m

IC3

Pin	Voltage (V)	Pin	Voltage (V)
1	3.309	73	3.333
2	2.1m	74	3.358
3	5.2m	75	3.333
4	3.326	76	0.3m
5	3.308	77	0.7m
6	3.044	78	3.333
7	3.351	79	30.5m
8	3.35	80	1.125
9	1.683	81	1.556
10	1.672	82	0.925
11	1.684	83	1.826
12	1.676	84	0.511
13	1.676	85	0.512
14	1.676	86	0.8m
15	0.4m	87	0.9m
16	3.355	88	0.8m
17	384m	89	0.5m
18	410m	90	0.5m
19	3.316	91	3.359
20	1.646	92	1.921
21	0.4m	93	0.3m
22	1.6	94	1.84
23	3.355	95	2.03
24	3.334	96	1.758
25	1.5m	97	1.703
26	372m	98	1.862
27	3.355	99	1.695
28	-11.3m	100	1.693
29	-1.5m	101	122m
30	3.353	102	2.075
31	3.353	103	1.589
32	3.354	104	1.723
33	3.353	105	1.835
34	3.355	106	1.486
35	3.355	107	1.324
36	0.8m	108	1.814
37	3.308	109	1.32
38	3.355	110	2.298
39	3.355	111	1.895
40	0.1m	112	1.844
41	0.3m	113	1.813
42	0.3m	114	3.359
43	0.4m	115	9.8m
44	3.313	116	3.358
45	3.03	117	3.358
46	3.292	118	2.7-2.73
47	234m-264m	119	1.626
48	3.356	120	1.436
49	3.356	121	1.687
50	0.7m	122	1.344
51	0.7m	123	1.2m
52	3.357	124	1.689
53	3.356	125	1.69
54	3.354	126	1.689
55	3.356	127	3.186
56	20.2m	128	1.679
57	0.3m	129	1.68
58	0.6m	130	0.3m
59	3.357	131	1.679
60	0.8m	132	3.359
61	3.352	133	3.396
62	1m	134	1.659
63	2.247	135	2.47-2.52
64	3.354	136	1.9
65	3.353	137	1.477
66	0.407	138	1.683
67	0.407	139	1.688
68	3m	140	1.4m
69	1.267	141	1.688
70	3.351	142	3.358
71	3.346	143	3.359
72	3.358	144	3.045

IC4

Pin	Voltage (V)
1	371.2m
2	1.32
3	1.678
4	1.457
5	1.63
6	1.793
7	1.875
8	1.931
9	5.4m
10	126.4m
11	0.3m
12	0.9m
13	0.8m
14	0.9m
15	0.9m
16	0.9m
17	0.9m
18	0.9m
19	0.9m
20	3.354

IC5

Pin	Voltage (V)
1	-15.8m
2	-15.9m
3	-16.1m
4	-7.04
5	-16.2m
6	-15.9m
7	-15.9m
8	7.01

IC6

Pin	Voltage (V)
1	-0.1m
2	5.07
3	5.06
4	3.352
5	5.04
6	5.02
7	3.352
8	0
9	3.352
10	4.96
11	5.02
12	3.352
13	4.96
14	4.96
15	0
16	3.353

IC10

Pin	Voltage (V)
1	-0.1m
2	374m
3	231m
4	219m
5	165m
6	101m
7	10m
8	16.8m
9	0.9m
10	-0.1m
11	-0.8m
12	-0.1m
13	-0.1m
14	-0.1m
15	-0.1m
16	-0.1m
17	-0.1m
18	-0.1m
19	-0.1m
20	3.362

IC7

Pin	Voltage (V)
1	7.9m
2	8.2m
3	4.9m
4	4.9m
5	8.4m
6	10.5m
7	8.8m
8	11.4m
9	68.5m
10	93.6m-1.044
11	3.336
12	3.32
13	98m-1.045
14	89m-1.03
15	84m-1.02
16	115m-1.07
17	8.5m
18	10.9m
19	11.1m
20	11.5m
21	12.3m
22	13.3m
23	18.8m
24	43m
25	40.3m
26	3.361
27	0.1m
28	3.322
29	3.186
30	3.126
31	3.104
32	3.22
33	3.125
34	3.061
35	3.142
36	3.04
37	3.36
38	3.167
39	3.025
40	3.214
41	3.018
42	3.204
43	2.886
44	3.123
45	3.004
46	0.1m
47	3.361
48	5m

IC11

Pin	Voltage (V)
1	3.355
2	1.656
3	0.8m
4	1.68
5	3.355

IC12

Pin	Voltage (V)
1	0
2	0.5m
3	0
4	0.2m
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	3.366

IC8

Pin	Voltage (V)
1	3.407
2	3.407
3	3.407
4	3.407
5	3.412
6	0
7	3.081
8	3.207
9	3.1-3.231
10	3.1-3.206
11	3.1-3.235
12	3.1-3.232
13	3.1-3.207
14	0
15	3.16-3.182
16	3.14-3.16
17	3.144
18	3.135
19	3.223
20	3.345
21	3.348
22	3.336
23	3.281
24	1.676
25	40.7m
26	43m
27	3.366
28	3.412

IC9

Pin	Voltage (V)
1	3.408
2	3.408
3	1.662
4	3.407
5	3.412
6	7.1m
7	2.252
8	2.228
9	2.248
10	2.26
11	2.268
12	2.275
13	2.311
14	0.5m
15	2.435
16	2.42
17	2.527
18	2.53
19	2.762
20	3.338
21	3.341
22	3.329
23	351.2m
24	1.676
25	44.7m
26	46.5m
27	3.329
28	3.413

IC13

Pin	Voltage (V)
1	3.355
2	1.671
3	1m
4	1.711
5	3.355

IC15

Pin	Voltage (V)
1	5.13
2	3.356
3	0.1m
4	5.12
5	5.13

IC14

Pin	Voltage (V)
1	122.2m
2	1.691
3	1.695
4	3.347
5	3.348
6	3.355
7	0.2m
8	0.1m
9	0.4m
10	0.5m
11	0.6m
12	0.8m
13	0.7m
14	0.3m
15	0.3m
16	3.355

IC16

Pin	Voltage (V)
1	4.67
2	3.223
3	2.6-5.04
4	2.482
5	2.524
6	5.06
7	-0.1m
8	298m-307m
9	3.317
10	2.518
11	5.04
12	4.83
13	4.83
14	0
15	4.83
16	1.678
17	1.681
18	3.8m
19	5.04
20	4.83
21	1.708
22	0
23	5.05
24	-0.2m
25	3.3m
26	3.4m
27	2.7-2.72
28	240m-263m

IC17

Pin	Voltage (V)
1	4.65
2	3.22
3	2.4-5.01
4	2.495
5	2.519
6	5.04
7	0
8	245m-268m
9	3.319
10	2.517
11	5.02
12	4.81
13	4.81
14	0
15	4.81
16	1.678
17	1.682
18	3.9m
19	5.02
20	4.8
21	1.716
22	0
23	5.03
24	-0.2m
25	3.5m
26	3.5m
27	2.69-2.74
28	242m-263m

IC18

Pin	Voltage (V)
1	3.357
2	4.68
3	0.9m
4	3.193
5	3.357

IC19

Pin	Voltage (V)
1	-0.2m
2	0.89
3	1.461
4	48m
5	8.54
6	3.428
7	3.428
8	3.428
9	3.428
10	3.428
11	-1.1m
12	-1.2m
13	-1.1m
14	5.13
15	5.14
16	5.13
17	2.814
18	5.12
19	0
20	0.943

IC20

Pin

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A

IC22			
Pin	Voltage (V)	Pin	Voltage (V)
1	0.412	51	383m
2	379.1m	52	394m
3	108m-1.1	53	363m
4	0.46	54	395m
5	3.071	55	1.757
6	3.013	56	1.708
7	3.162	57	1.866
8	2.818	58	1.699
9	0.3m	59	1.693
10	3.095	60	0.3m
11	3.156	61	3.36
12	3.36	62	3.318
13	0.3m	63	0.3m
14	1.323	64	3.36
15	1.677	65	3.36
16	1.41	66	40.4m
17	3.36	67	43m
18	1.601	68	18.9m
19	1.796	69	13.3m
20	1.857	70	12.3m
21	1.925	71	11.6m
22	0.4-1.06	72	88m-1.021
23	370m	73	97m-0.98
24	387m	74	69m-0.99
25	365m	75	114m-1.104
26	2.335	76	11.1m
27	1.33	77	11m
28	1.809	78	11.5m
29	1.32	79	8.9m
30	1.48	80	10.7m
31	1.838	81	8.5m
32	1.731	82	0.379
33	1.595	83	0.3m
34	0.3m	84	0.3m
35	2.086	85	3.326
36	2.234	86	3.36
37	3.355	87	3.337
38	0.4m	88	3.36
39	3.361	89	3.322
40	3.347	90	3.113
41	0.4m	91	2.974
42	0.4m	92	0.3m
43	-75m-1.037	93	2.956
44	0.917	94	3.011
45	1.824	95	2.995
46	1.225	96	3.053
47	1.132	97	3.034
48	1.922	98	3.107
49	1.843	99	3.072
50	2.027	100	3.086

B

C

D

E

F

IC31			
Pin	Voltage (V)	Pin	Voltage (V)
1	3.345		
2	1.665		
3	0.2m		
4	0.1m		
5	0.2m		
6	0.2m		
7	0.211		
8	0.2m		
9	3.348		
10	3.348		
11	1.673		
12	1.673		
13	1.673		
14	1.674		
15	0.209		
16	3.348		

IC27			
Pin	Voltage (V)	Pin	Voltage (V)
1	-0.3m		
2	0.893		
3	1.087		
4	50m		
5	6.55		
6	1.395		
7	1.395		
8	1.395		
9	1.395		
10	1.395		
11	-2.6m		
12	-2.6m		
13	-2.6m		
14	5.13		
15	5.13		
16	5.14		
17	2.854		
18	5.12		
19	0		
20	0.967		

IC29			
Pin	Voltage (V)	Pin	Voltage (V)
1	3.345		
2	1.665		
3	0.1m		
4	0.2m		
5	0.2m		
6	0.1m		
7	3.348		
8	0.1m		
9	3.348		
10	3.348		
11	1.672		
12	1.671		
13	1.671		
14	1.681		
15	0.211		
16	3.348		

IC30			
Pin	Voltage (V)	Pin	Voltage (V)
1	0.1m		
2	1.301		
3	1.654		
4	1.451		
5	1.615		
6	1.772		
7	1.866		
8	1.914		
9	2.325		
10	0.1m		
11	2.34		
12	1.943		
13	1.895		
14	1.818		
15	1.652		
16	1.481		
17	1.7		
18	1.344		
19	0.2m		
20	3.355		

IC33			
Pin	Voltage (V)	Pin	Voltage (V)
1	20m		
2	-7m		
3	-7m		
4	-7.04		
5	11.5m		
6	-7m		
7	21.3m		
8	7.01		

IC32			
Pin	Voltage (V)	Pin	Voltage (V)
1	1.6-3.1	71	11m
2	3.355	72	3.364
3	1.251	73	0
4	-0.3m	74	10.8m
5	3.36	75	3.321
6	3.356	76	11.3m
7	3.356	77	1.676
8	3.357	78	26.2m
9	3.36	79	3.345
10	0.1m	80	1.251
11	1.251	81	0
12	1.686	82	4m
13	1.6m	83	3.336
14	1.251	84	3.363
15	0.1m	85	0
16	1.661	86	8.8m
17	1.298	87	3.363
18	1.269	88	0
19	1.661	89	-2m
20	1.209	90	1.251
21	1.684	91	-74.1m
22	1.251	92	8.2m
23	0.1m	93	10.5m
24	1.683	94	4.9m
25	3.361	95	4.9m
26	0.2m	96	1.251
27	1.213	97	0
28	1.687	98	3.363
29	1.251	99	7.9m
30	-0.1m	100	8.4m
31	7.2m-400m	101	5.1m
32	1.263	102	3.326
33	1.264	103	3.363
34	-0.1	104	1.253
35	1.252	105	1.253
36	1.2	106	0
37	3.36	107	3.363
38	1.204	108	3.292
39	-0.2m	109	4m
40	1.253	110	3.292
41	3.361	111	3.205
42	3.361	112	3.098
43	1.252	113	3.058
44	3.363	114	3.364
45	-0.1m	115	0
46	1.253	116	1.251
47	3.363	117	3.199
48	-0.2m	118	3.197
49	-0.2m	119	3.23
50	1.253	120	3.093
51	1.253	121	3-3.202
52	-0.1m	122	3-3.246
53	1.254	123	3-3.228
54	-0.1m	124	1.25
55	3.363	125	0
56	3.359	126	3.362
57	3.347	127	3.1-3.2
58	3.363	128	3.1-3.2
59	0	129	3.1-3.2
60	1.252	130	3.131
61	3.347	131	3.135
62	40.6m	132	3.221
63	42.9m	133	1.249
64	18.8m	134	0
65	3.363	135	3.353
66	-0.1m	136	3.357
67	1.251	137	3.357
68	13.3m	138	3.354
69	12.2m	139	1.683
70	11.5m	140	1.662

IC34			
Pin	Voltage (V)	Pin	Voltage (V)
1	3.305		
2	65.5m		
3	65.5m		
4	5.03		
5	65.5m		
6	5.03		
7	0		
8	0.3m		
9	376m		
10	5.03		
11	0.3m		
12	5.1		
13	0.1m		
14	5.1		

IC36			
Pin	Voltage (V)	Pin	Voltage (V)
1	4.67		
2	3.352		
3	5.06		
4	2.132		
5	2.534		
6	5.08		
7	0		
8	40m-43m		
9	3.313		
10	2.521		
11	5.06		
12	1.68		
13	1.677		
14	1.22-1.27		
15	4.86		
16	1.677		
17	1.68		
18	4m		
19	5.06		
20	4.86		
21	1.705		
22	0.2m		
23	5.07		
24	0		
25	5.06		
26	173.2m		
27	2.71-2.74		
28	235m-259m		

IC37			
Pin	Voltage (V)	Pin	Voltage (V)
1	4.68		
2	3.348		
3	3.3-5		
4	2.452		
5	2.538		
6	5.09		
7	0		
8	606m-635m		
9	3.308		
10	2.54		
11	5.08		
12	1.678		
13	1.675		
14	1.22-1.27		
15	4.86		
16	1.675		
17	1.678		
18	4.1m		
19	5.08		
20	4.86		
21	1.703		
22	0		
23	5.08		
24	-0.1m		
25	5.07		
26	170.8m		
27	2.73-2.77		
28	238m-257m		

IC40			
Pin	Voltage (V)	Pin	Voltage (V)
1	3.36		
2	1.673		
3	-0.1m		
4	1.668		
5	3.359		

IC405			
Pin	Voltage (V)	Pin	Voltage (V)
1	4.6m		
2	1.269		
3	2.154		
4	0		
5	1.288		
6	3.353		
7	0		
8	6.5m		

IC38			
Pin	Voltage (V)	Pin	Voltage (V)
1	5.14		
2	-0.5m		
3	3.405		

IC41			
Pin	Voltage (V)	Pin	Voltage (V)
1	3.304		
2	65.5m		
3	65.5m		
4	5.03		
5	65.6m		
6	5.03		
7	0.1m		
8	0.3m		
9	370m		
10	5.03		
11	0.3m		
12	5.09		
13	0.1m		
14	5.09		

IC45			
Pin	Voltage (V)	Pin	Voltage (V)
1	3.352		
2	1.681		
3	0		
4	1.679		
5	3.353		

IC47			
Pin	Voltage (V)	Pin	Voltage (V)
1	3.351		
2	1.667		
3	0		
4	1.651		
5	3.351		

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IC432

Pin	Voltage (V)
1	2.665
2	3.351
3	3.353
4	0
5	0.83
6	2.666
7	2.666
8	5.08

IC702

Pin	Voltage (V)
1	3.6m
2	1.293
3	2.068
4	13.2m
5	1.291
6	3.353
7	-0.5m
8	3.354

IC707

Pin	Voltage (V)
1	4.66
2	3.23
3	4.96
4	2.492
5	2.491
6	4.99
7	0
8	13.5m
9	3.314
10	2.5
11	4.96
12	4.75
13	4.75
14	-0.1m
15	4.74
16	1.694
17	1.677
18	4m
19	4.96
20	4.74
21	1.72
22	0
23	4.96
24	0
25	3.8m
26	3.7m
27	2.69-2.72
28	237m-256m

IC719

Pin	Voltage (V)
1	2.574
2	3.471
3	3.471
4	-0.4m
5	198m
6	2.575
7	2.575
8	5

IC433

Pin	Voltage (V)
1	2.676
2	3.061
3	3.046
4	100m-1.1
5	1.895
6	2.678
7	2.678
8	5.09

IC705

Pin	Voltage (V)
1	4.67
2	3.216
3	4.95
4	2.491
5	2.491
6	4.99
7	-0.2m
8	14.5m
9	3.314
10	2.466
11	4.96
12	4.75
13	4.75
14	-0.5m
15	4.75
16	1.696
17	1.678
18	3.6m
19	4.96
20	4.75
21	1.721
22	-0.2m
23	4.97
24	-0.2m
25	3.2m
26	3.2m
27	2.7-2.73
28	235m-256m

IC720

Pin	Voltage (V)
1	2.575
2	3.488
3	3.488
4	-0.1m
5	185.6m
6	2.576
7	2.576
8	5

IC721

Pin	Voltage (V)
1	0
2	4.98
3	2.503
4	2.499
5	2.49
6	2.535
7	0
8	2.535
9	2.49
10	2.534
11	2.49
12	2.534
13	2.49
14	4.99

IC434

Pin	Voltage (V)
1	3.36
2	1.686
3	-0.1m
4	1.734
5	3.36

IC435

Pin	Voltage (V)
1	3.36
2	1.672
3	-0.1m
4	1.659
5	3.36

IC436

Pin	Voltage (V)
1	3.36
2	1.673
3	0
4	1.663
5	3.359

IC701

Pin	Voltage (V)
1	4.68
2	3.29
3	4.93
4	2.493
5	2.485
6	4.98
7	-0.2m
8	2.452
9	3.315
10	2.55
11	8.5m
12	1.678
13	1.695
14	1.199
15	4.67
16	4.67
17	4.67
18	6.8m
19	6.5m
20	4.66
21	1.724
22	0.1m
23	4.95
24	-0.1m
25	2.5
26	2.502
27	2.67-2.72
28	236m-261m

IC706

Pin	Voltage (V)
1	4.65
2	3.231
3	4.96
4	2.488
5	2.488
6	4.99
7	-0.2m
8	12.4m
9	3.314
10	2.498
11	4.96
12	4.74
13	4.74
14	-0.1m
15	4.75
16	1.696
17	1.678
18	3.9m
19	4.96
20	4.75
21	1.723
22	0
23	4.96
24	0
25	3.7m
26	3.7m
27	2.69-2.7
28	231m-263m

IC710

Pin	Voltage (V)
1	2.573
2	3.456
3	3.456
4	-0.1m
5	181.5m
6	2.574
7	2.574
8	4.99

IC711

Pin	Voltage (V)
1	3.347
2	1.667
3	0
4	1.667
5	3.347

IC716

Pin	Voltage (V)
1	4.1m
2	1.285
3	2.063
4	-0.1m
5	1.291
6	3.354
7	0
8	3.355

B CH1/CH2 INPUT ASSY

Connect only the SEND/RETURN Assy and CH1/CH2 INPUT Assy to the BUS1 Assy.

IC301

Pin	Voltage (V)
1	3.708
2	1.281
3	2.522
4	2.521
5	2.521
6	3.385
7	3.385
8	1.9m
9	2.3m
10	3.389
11	3.384
12	1.9m
13	1.697
14	1.707
15	1.3
16	3.386
17	1.866
18	3.385
19	3.385
20	1.9m
21	1.9m
22	1.9m
23	4.89
24	2.521
25	2.521
26	2.538
27	1.273
28	3.67

IC308

Pin	Voltage (V)
1	-12.9m
2	1.9m
3	1.8m
4	-15.18
5	16.8m
6	16.4m
7	16.4m
8	14.96

IC309

Pin	Voltage (V)
1	2.522
2	2.521
3	2.521
4	-15.18
5	2.52
6	2.52
7	2.521
8	14.96

IC310

Pin	Voltage (V)
1	2.521
2	2.521
3	2.521
4	-15.18
5	2.521
6	2.521
7	2.522
8	14.96

IC302

Pin	Voltage (V)
1	23.6m
2	-1.6m
3	-1.8m
4	-15.18
5	-1.9m
6	-2.7m
7	22m
8	14.97

IC304

Pin	Voltage (V)
1	3.5m
2	3.4m
3	3.4m
4	-15.19
5	3.3m
6	3.3m
7	3.4m
8	14.97

IC305

Pin	Voltage (V)
1	3.7m
2	3.6m
3	3.5m
4	-15.18
5	3.6m
6	3.5m
7	3.5m
8	14.96

IC307

Pin	Voltage (V)
1	-13.3m
2	1.9m
3	1.7m
4	-15.18
5	17.2m
6	16.9m
7	16.9m
8	14.96

C CH3/CH4 INPUT ASSY

Connect only the SEND/RETURN Assy and CH3/CH4 INPUT Assy to the BUS1 Assy.

IC601

Pin	Voltage (V)
1	3.71
2	1.295
3	2.538
4	2.459
5	2.459
6	3.379
7	3.378
8	2.5m
9	2.9m
10	3.382
11	3.379
12	2.5m
13	1.693
14	1.704
15	1.3
16	3.379
17	1.926
18	3.38
19	3.379
20	2.5m
21	2.5m
22	2.6m
23	4.85
24	2.46
25	2.46
26	2.553
27	1.281
28	3.69

IC608

Pin	Voltage (V)
1	-13.5m
2	2.2m
3	2.3m
4	-15.15
5	17.9m
6	17.8m
7	17.9m
8	14.93

IC609

Pin	Voltage (V)
1	2.459
2	2.459
3	2.459
4	-15.15
5	2.458
6	2.459
7	2.459
8	14.94

IC610

Pin	Voltage (V)
1	2.458
2	2.458
3	2.458
4	-15.15
5	2.458
6	2.459
7	2.459
8	14.94

IC602

Pin	Voltage (V)
1	37m
2	-3.3m
3	-3.1m
4	-15.14
5	-3.2m
6	-3.3m
7	33.3m
8	14.93

IC604

Pin	Voltage (V)
1	3.9m
2	3.9m
3	4m
4	-15.14
5	3.9m
6	3.9m
7	4.1m
8	14.93

IC605

Pin	Voltage (V)
1	3.9m
2	3.9m
3	4.1m
4	-15.14
5	4m
6	4.2m
7	4.3m
8	14.93

IC607

Pin	Voltage (V)
1	-16.4
2	1.7m
3	2.3m
4	-15.14
5	19.7m
6	19.7m
7	19.8m
8	14.93

D CH5/CH6 INPUT ASSY

A Connect all the PC boards that are to be vertically installed to the BUS1 Assy, and connect only the CH5/CH6 INPUT Assy to the BUS2 Assy.

IC401

Pin	Voltage (V)
1	22m
2	-1.8m
3	-0.8m
4	-15.2
5	-0.7m
6	-1.7m
7	17.6m
8	14.98

IC409

Pin	Voltage (V)
1	3.71
2	1.298
3	2.572
4	2.513
5	2.513
6	3.383
7	3.381
8	2.4m
9	2.8m
10	3.382
11	3.383
12	2.3m
13	1.695
14	1.723
15	1.3
16	3.383
17	1.95
18	3.383
19	3.383
20	2.4m
21	2.4m
22	2.5m
23	4.9
24	2.513
25	2.513
26	2.584
27	1.279
28	3.694

IC404

Pin	Voltage (V)
1	72m
2	10.51
3	10.51
4	-15.2
5	12m
6	13.7m
7	12m
8	14.98

IC405

Pin	Voltage (V)
1	-12.8m
2	2m
3	2.2m
4	-15.19
5	17.1m
6	16.8m
7	16.8m
8	14.97

IC406

Pin	Voltage (V)
1	-13.4m
2	2.1m
3	2.1m
4	-15.19
5	17.6m
6	17.5m
7	17.6m
8	14.97

IC407

Pin	Voltage (V)
1	2.513
2	2.514
3	2.514
4	-15.19
5	2.513
6	2.513
7	2.513
8	14.97

IC408

Pin	Voltage (V)
1	2.513
2	2.513
3	2.513
4	-15.19
5	2.513
6	2.513
7	2.513
8	14.97

E SEND/RETURN ASSY

Connect only the SEND/RETURN Assy to the BUS1 Assy.

IC501

Pin	Voltage (V)
1	1.4m
2	3.396
3	1.716
4	3.397
5	1.689
6	9.1m
7	1.701
8	1.3m
9	3.082
10	3.394
11	1.4m
12	3.394
13	3.392
14	1.4m
15	1.4m
16	1.4m
17	4.94
18	4.94
19	1.5m
20	2.613
21	2.614
22	2.614
23	2.615
24	2.615
25	3.388
26	1.4m
27	1.4m
28	3.388

IC502

Pin	Voltage (V)
1	15.6m
2	2.188
3	2.187
4	-15.2
5	2.184
6	2.186
7	-3.5m
8	14.97

IC503

Pin	Voltage (V)
1	4.99
2	1.2m
3	2.482
4	2.498
5	2.498
6	3.093
7	3.386
8	1.3m
9	2.9m
10	3.391
11	3.388
12	1.3m
13	1.698
14	1.688
15	1.3
16	1.3m
17	1.718
18	3.388
19	3.388
20	-8.7m
21	1.3m
22	1.3m
23	4.98
24	2.498
25	2.498
26	1.5m
27	1.3m
28	4.99

IC504

Pin	Voltage (V)
1	2.9m
2	2.7m
3	2.7m
4	-15.23
5	2.7m
6	2.9m
7	2.9m
8	15.01

IC505

Pin	Voltage (V)
1	-1.9m
2	1.3m
3	1.3m
4	-15.22
5	2.6m
6	2.5m
7	2.5m
8	15.01

IC506

Pin	Voltage (V)
1	-2.9m
2	0.9m
3	1.2m
4	-15.22
5	2.7m
6	2.6m
7	2.7m
8	15

IC507

Pin	Voltage (V)
1	2.498
2	2.498
3	2.497
4	1.3m
5	2.497
6	2.498
7	2.479
8	4.99

IC508

Pin	Voltage (V)
1	2.498
2	2.499
3	2.497
4	1.2m
5	2.498
6	2.499
7	2.498
8	4.99

F BOOTH/REC ASSY**IC201**

Pin	Voltage (V)
1	0.9m
2	3.372
3	1.968
4	3.368
5	1.711
6	1.3
7	1.689
8	0.9m
9	3.072
10	3.36
11	0.9m
12	3.362
13	3.371
14	0.9m
15	0.7m
16	0.7m
17	4.92
18	4.92
19	1.4m
20	2.618
21	2.618
22	2.625
23	2.625
24	2.623
25	3.359
26	0.9m
27	0.9m
28	0.9m

IC202

Pin	Voltage (V)
1	0.9m
2	3.372
3	1.964
4	3.37
5	1.708
6	1.3
7	1.688
8	0.9m
9	3.065
10	3.371
11	1m
12	3.371
13	3.371
14	1m
15	1m
16	1m
17	4.92
18	4.92
19	1.3m
20	2.607
21	2.606
22	2.608
23	2.609
24	2.611
25	3.316
26	1m
27	1m
28	1m

IC204

Pin	Voltage (V)
1	3.7m
2	1.776
3	1.775
4	-15.14
5	1.779
6	1.779
7	-0.5m
8	14.93

IC205

Pin	Voltage (V)
1	5.6m
2	1.305
3	1.305
4	-15.14
5	1.306
6	1.307
7	5.9m
8	14.93

IC206

Pin	Voltage (V)
1	52.2m
2	15m
3	14m
4	-15.14
5	-1.1m
6	-2.1m
7	-50.3m
8	14.93

IC207

Pin	Voltage (V)
1	48.8m
2	14.5m
3	14m
4	-15.14
5	-0.7m
6	-0.9m
7	-46.4m
8	14.93

IC209

Pin	Voltage (V)
1	8m
2	9.5m
3	10.1m
4	-15.14
5	10.1m
6	9.7m
7	8m
8	14.93

IC210

Pin	Voltage (V)
1	21.1m
2	9.5m
3	9.9m
4	-15.15
5	10m
6	9.4m
7	20.8m
8	14.93

IC211

Pin	Voltage (V)
1	14.42
2	14.42
3	1.081
4	-15.15
5	1.081
6	14.4
7	14.42
8	14.94

G MASTER ASSY**IC331**

Pin	Voltage (V)
1	0.5m
2	3.37
3	1.972
4	3.368
5	1.715
6	1.3
7	1.687
8	0.5m
9	3.067
10	3.366
11	0.5m
12	3.365
13	3.364
14	0.6m
15	0.5m
16	0.5m
17	4.91
18	4.91
19	4.91
20	2.579
21	2.579
22	2.582
23	2.583
24	2.584
25	3.368
26	0.6m
27	0.5m
28	0.5m

IC332

Pin	Voltage (V)
1	4.94
2	3.353
3	3.6m
4	4.94
5	0.3m
6	4.5m
7	11m
8	4.92
9	1.3m
10	0.3m
11	0.7m
12	14.92
13	-15.14
14	0.2m
15	0.3m
16	1.3m

IC333

Pin	Voltage (V)
1	0
2	1.751
3	1.75
4	-15.13
5	1.747
6	1.748
7	-2.7m
8	14.92

IC334

Pin	Voltage (V)
1	-3.3m
2	0
3	0.1m
4	-15.13
5	0.6m
6	0.2m
7	-2.7m
8	14.91

L VISUAL LINK ASSY

IC801

Pin	Voltage (V)
1	18.9m
2	5.1
3	0
4	5.1
5	5.1
6	0
7	0
8	5.1
9	0
10	5.1
11	0
12	0
13	3.347
14	5.1

IC802

Pin	Voltage (V)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	5.1
10	0
11	0
12	19m
13	0
14	5.1

N BUS1 ASSY

Connect only the SEND/RETURN Assy to the BUS1 Assy.

IC503

Pin	Voltage (V)
1	2.466
2	2.466
3	2.466
4	-15.17
5	2.462
6	2.467
7	2.467
8	14.95

IC510

Pin	Voltage (V)
1	3.384
2	1.664
3	0.1m
4	1.688
5	3.387

IC511

Pin	Voltage (V)
1	3.382
2	1.675
3	0.2m
4	1.687
5	3.384

IC512

Pin	Voltage (V)
1	3.385
2	1.803
3	0
4	1.855
5	3.388

IC504

Pin	Voltage (V)
1	-15.1m
2	0
3	0
4	-15.16
5	14.8m
6	14.8m
7	14.8m
8	14.93

IC505

Pin	Voltage (V)
1	4.9
2	0.1m
3	2.44
4	2.463
5	2.464
6	3.08
7	3.368
8	0.1m
9	2m
10	3.373
11	3.37
12	0
13	1.689
14	1.674
15	1.271
16	0.2m
17	1.687
18	3.372
19	3.372
20	0.1m
21	0.1m
22	0.1m
23	4.89
24	2.466
25	2.466
26	0.3m
27	0.1m
28	4.9

IC513

Pin	Voltage (V)
1	4.93
2	40.8m
3	3.433
4	0
5	0
6	-122m
7	-122m
8	4.91

IC601

Pin	Voltage (V)
1	-0.2
2	10.47
3	10.47
4	-15.16
5	0
6	0
7	0
8	14.94

IC506

Pin	Voltage (V)
1	3.384
2	1.687
3	0.2m
4	1.695
5	3.386

IC508

Pin	Voltage (V)
1	3.384
2	1.739
3	0.2m
4	1.795
5	3.386

IC509

Pin	Voltage (V)
1	3.384
2	1.666
3	0
4	1.685
5	3.387

O BUS2 ASSY

IC301

Pin	Voltage (V)
1	3.384
2	1.664
3	0.1m
4	1.688
5	3.387

IC305

Pin	Voltage (V)
1	3.373
2	1.886
3	0.1m
4	1.967
5	3.372

IC302

Pin	Voltage (V)
1	3.372
2	1.653
3	0
4	1.69
5	3.372

IC306

Pin	Voltage (V)
1	3.372
2	1.654
3	0
4	1.688
5	3.372

IC304

Pin	Voltage (V)
1	3.372
2	1.896
3	0
4	1.92
5	3.372

P PANEL1 ASSY

IC4501

Pin	Voltage (V)
1	0
2	0
3	2.49
4	3.322
5	3.32
6	0
7	0
8	0
9	1.66
10	1.66
11	1.66
12	3.32
13	3.322
14	0.97
15	3.32
16	5.19

IC4502

Pin	Voltage (V)
1	1.66
2	0
3	1.66
4	3.323
5	1.654
6	0
7	0
8	0
9	1.66
10	1.66
11	1.66
12	1.662
13	1.648
14	1.671
15	1.658
16	5.18

IC4503

Pin	Voltage (V)
1	3.225
2	0
3	1.86
4	3.323
5	1.645
6	0
7	0
8	0
9	1.66
10	1.66
11	1.66
12	1.661
13	1.678
14	1.659
15	0.51
16	5.18

Q PANEL2
ASSY

S PANEL3 ASSY

AB POWER ASSY

IC4504

Pin	Voltage (V)
1	1.709
2	0
3	1.48
4	-2.5m
5	1.706
6	0
7	0
8	0
9	1.66
10	1.66
11	1.66
12	1.703
13	1.67
14	1.645
15	3.321
16	5.18

IC4001

Pin	Voltage (V)
1	3.322
2	0
3	1.35
4	1.707
5	0
6	0
7	1.493
8	1.659
9	0
10	0
11	13m
12	0
13	0.826
14	1.903
15	0
16	0
17	1.954
18	0
19	0
20	3.362

IC4006

Pin	Voltage (V)
1	3.322
2	9.2m
3	1.354
4	1.708
5	0
6	0
7	1.492
8	1.657
9	0
10	0
11	12.7m
12	0.698
13	1.826
14	1.905
15	27.4m
16	18.2m
17	1.952
18	2.35
19	18.2m
20	3.362

IC4009

Pin	Voltage (V)
1	1.689
2	1.689
3	1.69
4	0
5	0
6	3.363
7	0.415
8	0
9	0.415
10	0.413
11	0.415
12	0.414
13	0.42
14	0.415
15	0.416
16	3.363

IC101

Pin	Voltage (V)
1	20.5
2	0
3	15.04

IC102

Pin	Voltage (V)
1	-1.3m
2	-20.58
3	-15.23

IC103

Pin	Voltage (V)
1	6.93
2	-1.7m
3	5.01

IC104

Pin	Voltage (V)
1	14.82
2	7.13
3	-45.7m
4	0.937
5	14.71

IC105

Pin	Voltage (V)
1	14.94
2	5.26
3	-22.1m
4	0.964
5	14.77

IC106

Pin	Voltage (V)
1	6.97
2	0
3	5

IC114

Pin	Voltage (V)
1	14.79
2	26.2m
3	-6.59
4	-7.02
5	-5.79
6	14.75
7	14.71
8	14.73

IC115

Pin	Voltage (V)
1	6.92
2	-2.6m
3	5

IC116

Pin	Voltage (V)
1	14.73
2	3.452
3	-8.6m
4	0.983
5	14.58

IC4002

Pin	Voltage (V)
1	3.322
2	0
3	1.353
4	1.709
5	0
6	0
7	1.493
8	1.659
9	0
10	0
11	12.8m
12	0
13	1.827
14	1.905
15	0
16	0
17	1.955
18	2.35
19	0
20	3.362

IC4007

Pin	Voltage (V)
1	1.668
2	0
3	1.67
4	3.323
5	1.65
6	0
7	0
8	0
9	1.66
10	1.66
11	1.66
12	1.672
13	1.66
14	1.65
15	1.681
16	5.18

IC4008

Pin	Voltage (V)
1	1.689
2	1.689
3	1.689
4	0
5	0
6	3.362
7	0.415
8	0
9	0.415
10	0.414
11	0.415
12	0.415
13	0.416
14	0.416
15	0.41
16	3.362

IC4005

Pin	Voltage (V)
1	1.664
2	-0.1m
3	1.67
4	3.325
5	1.653
6	0
7	0
8	0
9	1.66
10	1.66
11	1.66
12	1.666
13	1.666
14	1.654
15	1.671
16	5.18

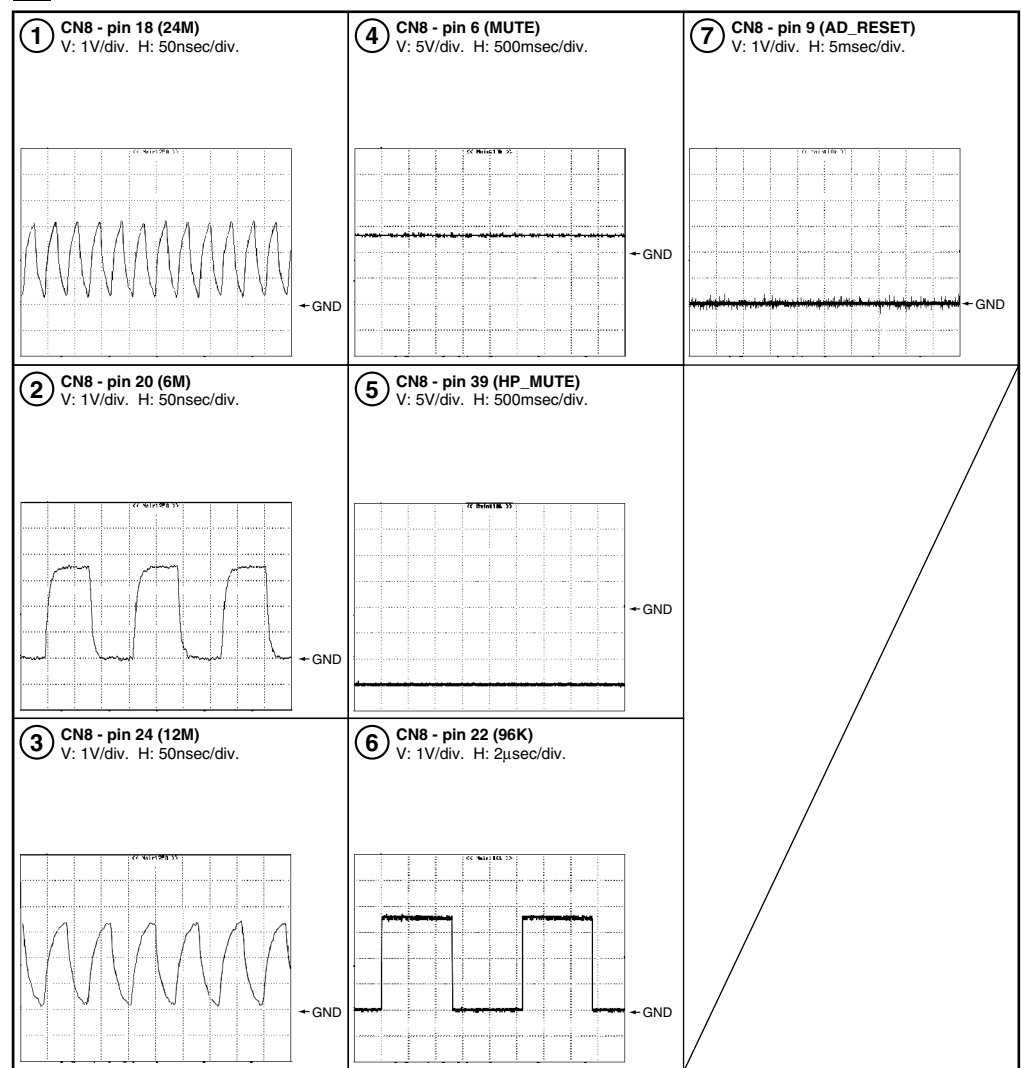
Measuring conditions (Analog)

Measure CH	IN CH	IN LEVEL(TRIM MAX)	IN FREQ	RL	
PHONO	CH1	-46dBv	1KHz		
LINE1	CH1	-6dBv	1KHz		
LINE2	CH1	-6dBv	1KHz		
SUBMIC	CH5	-44.8dBv	1KHz		
RETURN	CH1SELECT	-6dBv	1KHz		SEND LEVEL MAX
SEND	CH1SELECT	-6dBv(CH1)	1KHz		SEND LEVEL MAX
BOOTH	CH1	-6dBv(CH1)	1KHz	600ohm	BOOTH LEVEL MAX,EQ FLAT
REC	CH1	-6dBv(CH1)	1KHz	10Kohm	
MAINMIC	MAINMIC	-44.8dBv	1KHz		
HP	CH1	-6dBv	1KHz	32ohm	HP LEVEL 4

If no measuring condition is assigned, input a signal to CH1, set the CH1 FADER control to MAX and the CF (cross fader) control to its center position, and rotate the CH fader curve control fully counterclockwise.

Note : The encircled numbers denote measuring point in the schematic diagram.

1/4 DIGITAL MAIN ASSY



A 4/4 DIGITAL MAIN ASSY

A

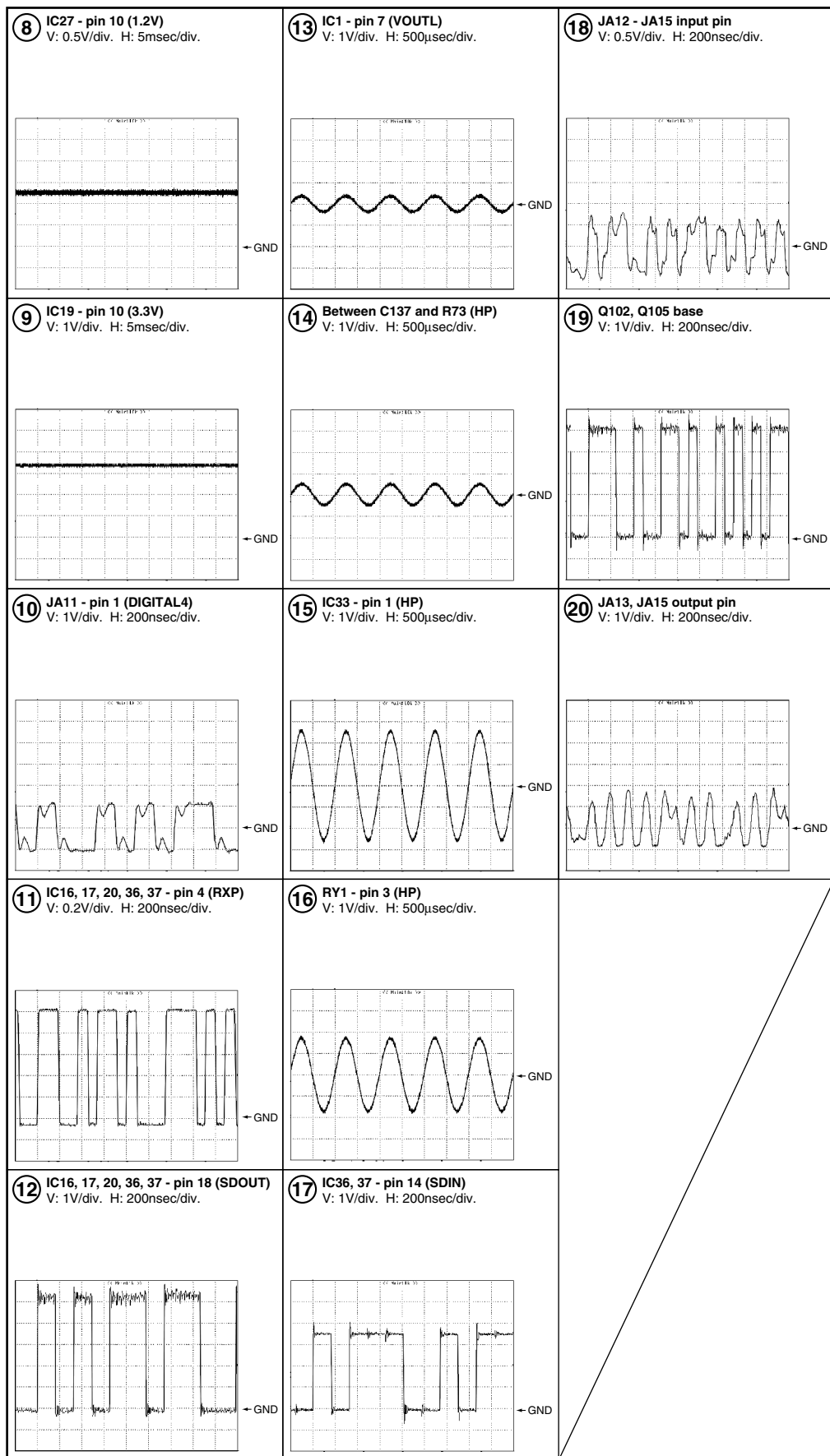
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C

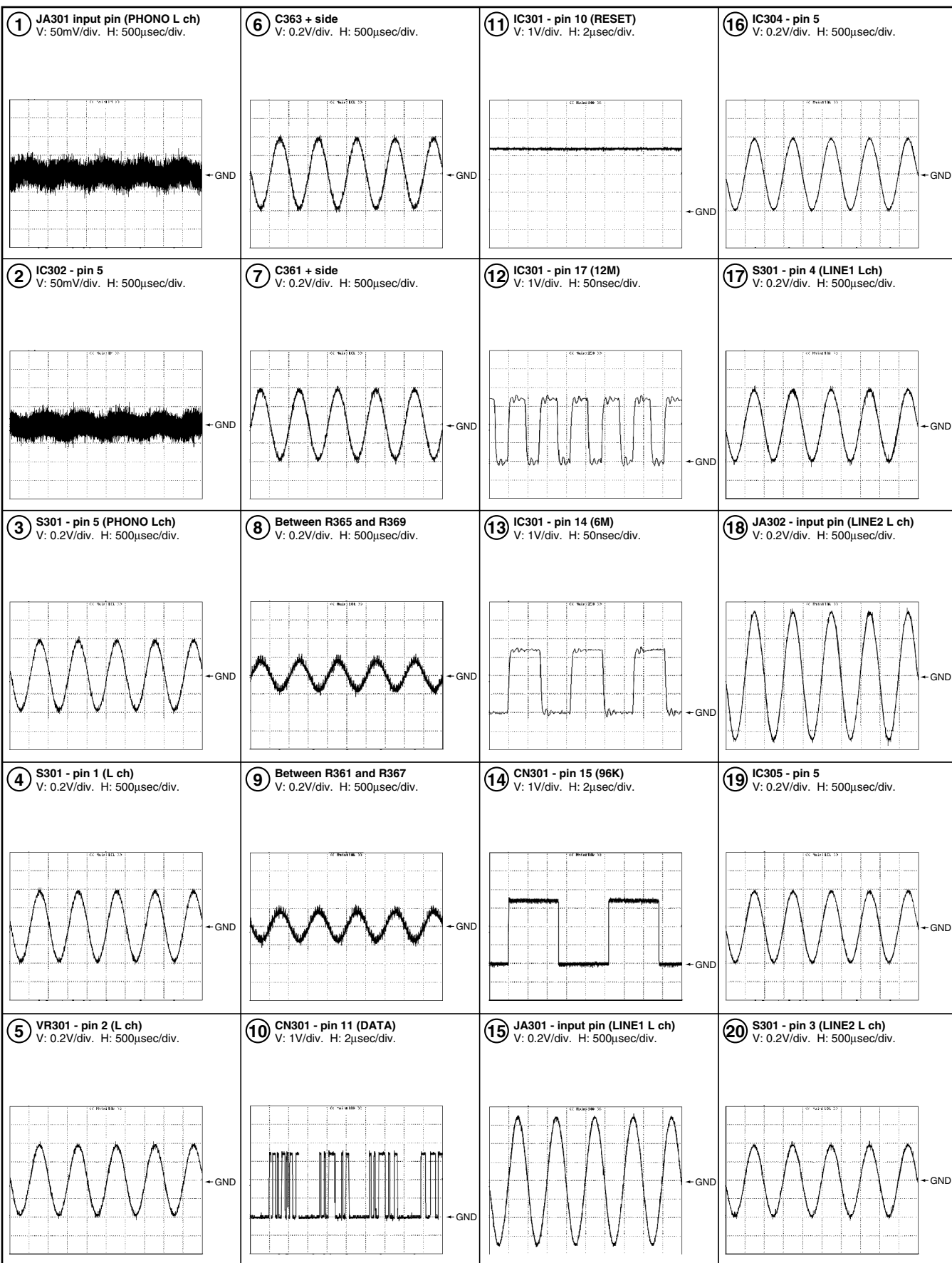
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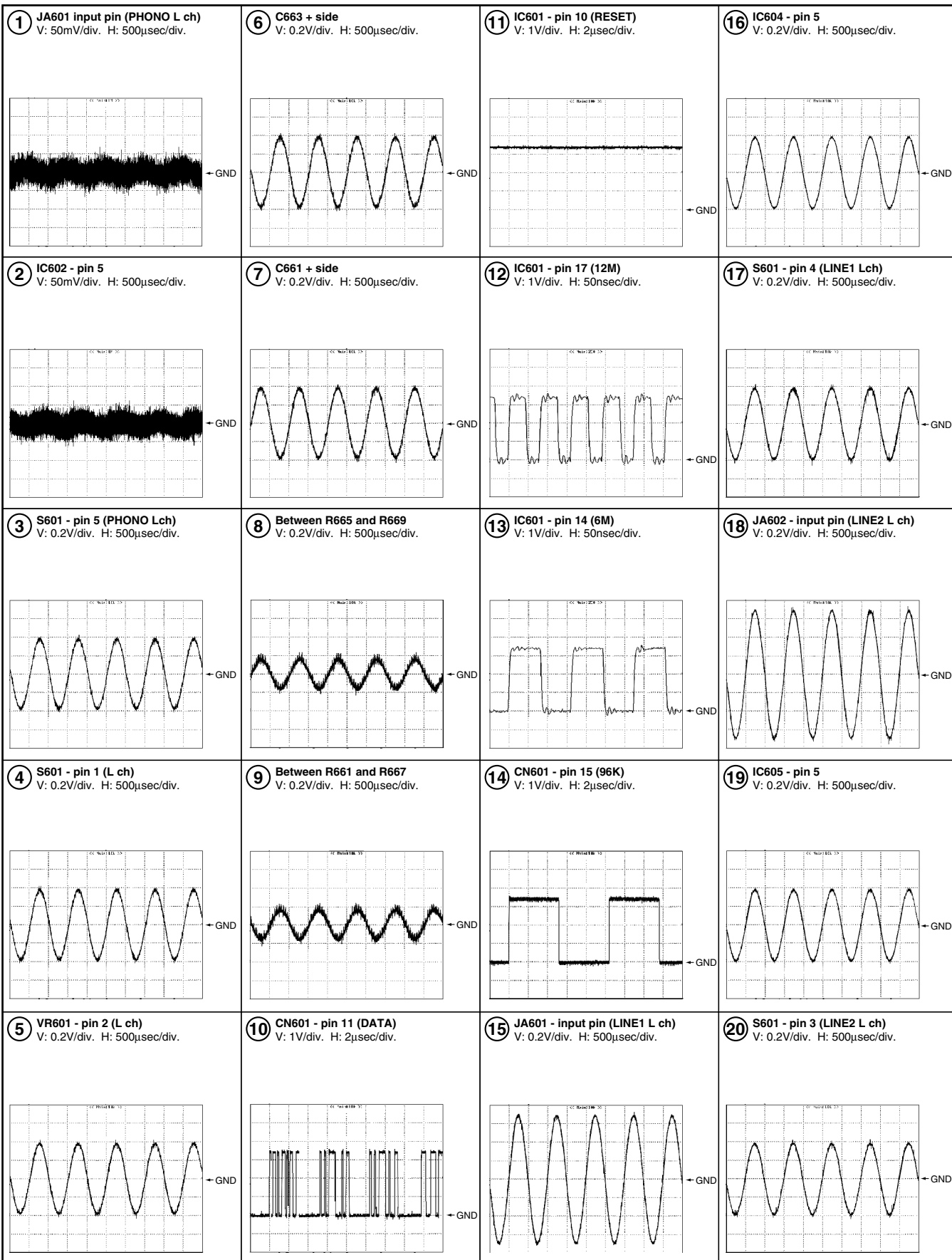
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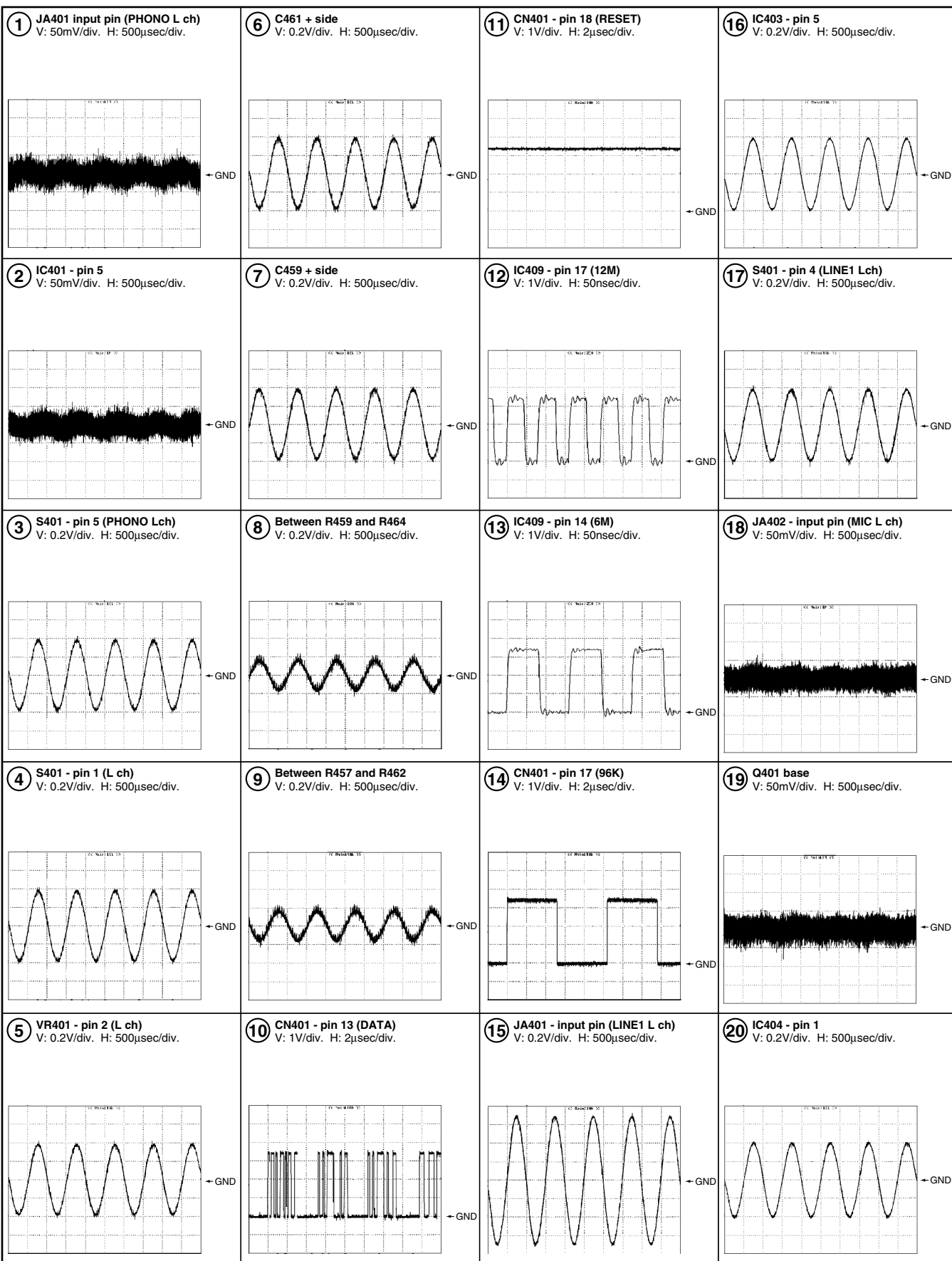
B CH1/CH2 INPUT ASSY



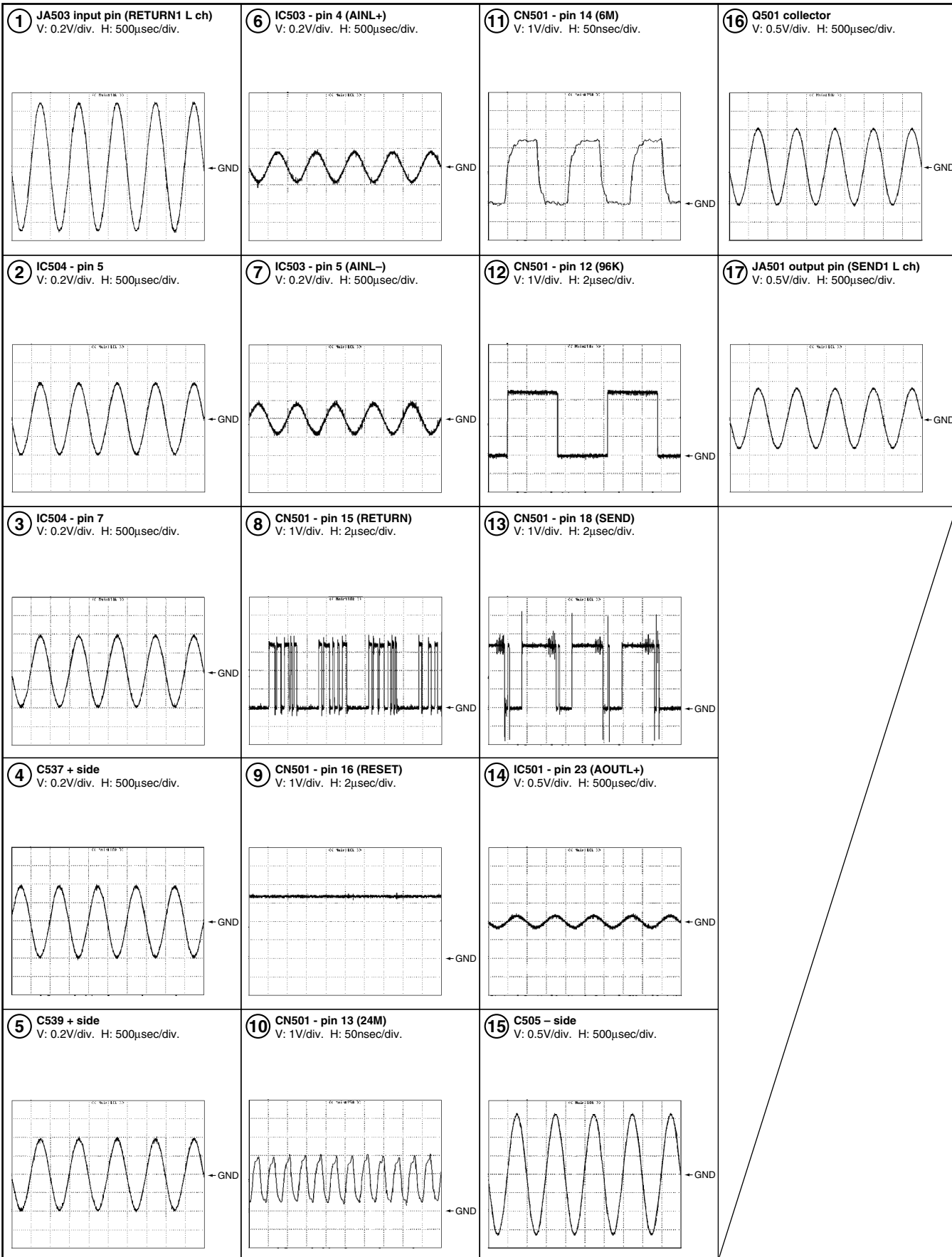
C CH3/CH4 INPUT ASSY



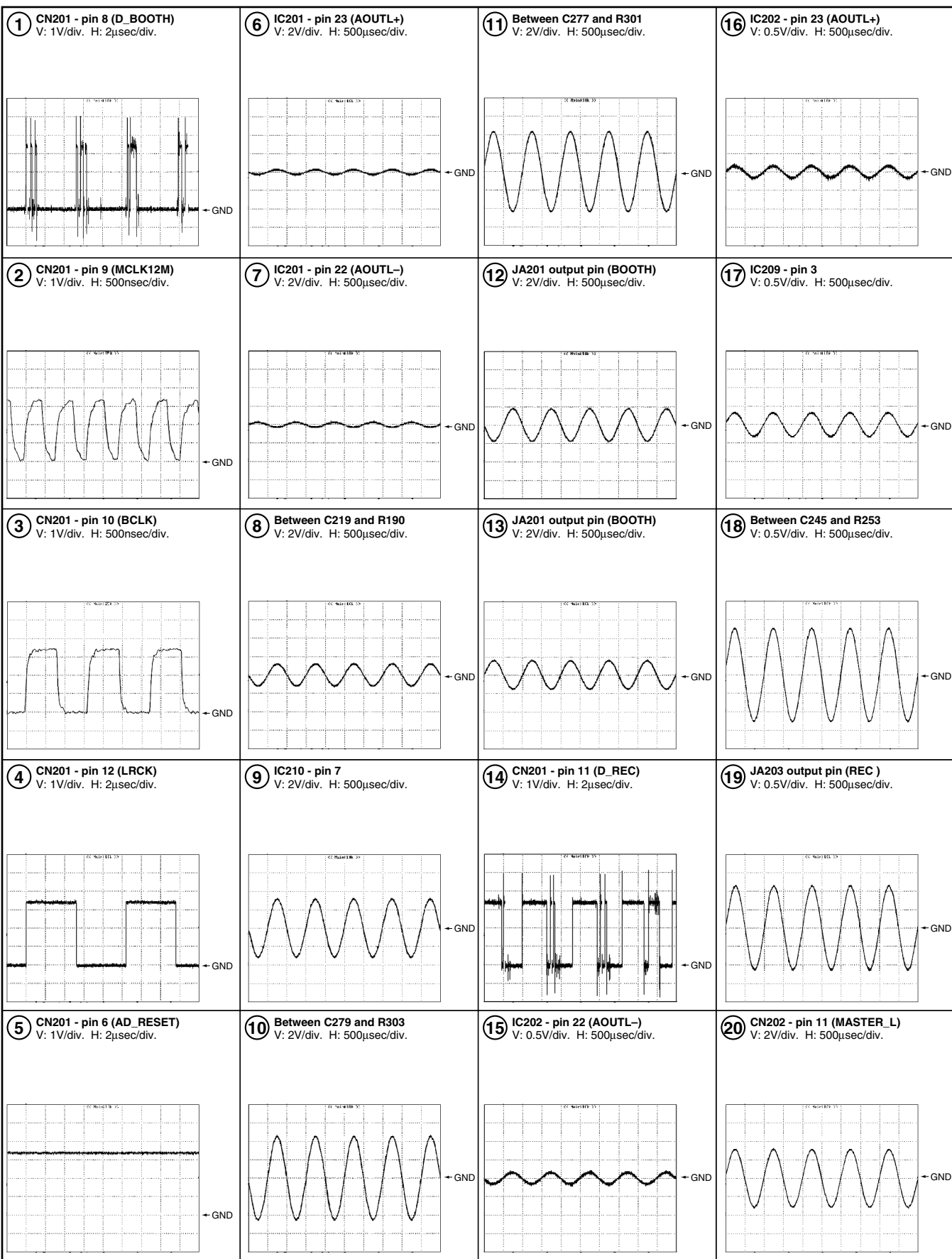
D CH5/CH6 INPUT ASSY



SEND/RETURN ASSY



F BOOTH/REC ASSY



A

F BOOTH/REC
ASSY

G MASTER ASSY

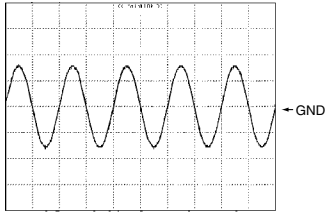
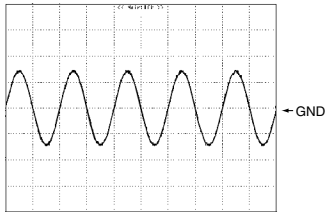
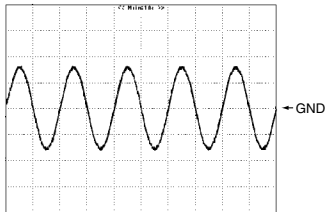
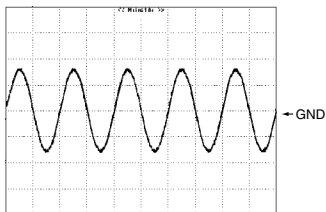
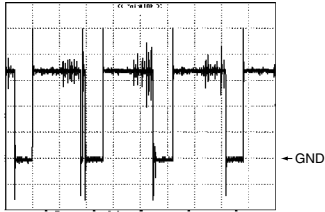
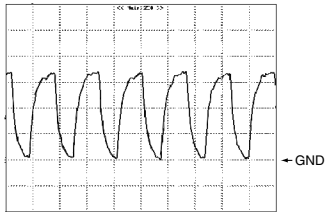
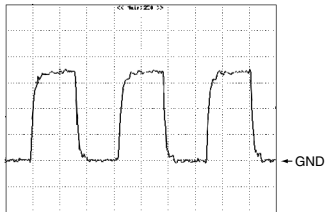
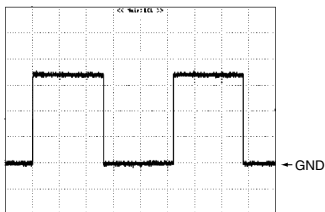
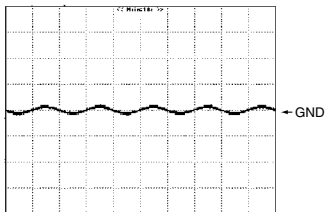
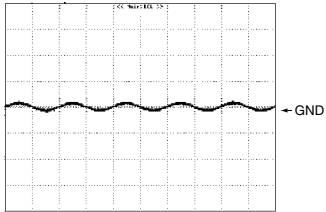
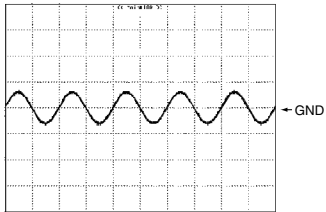
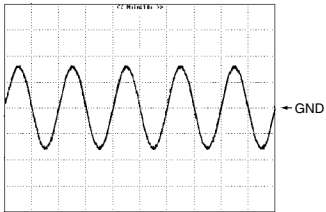
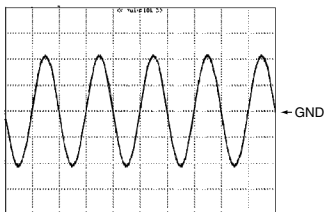
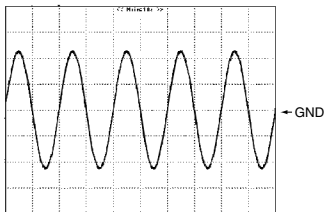
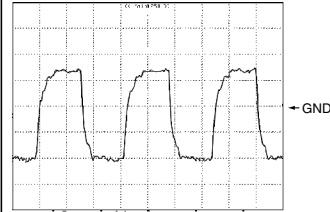
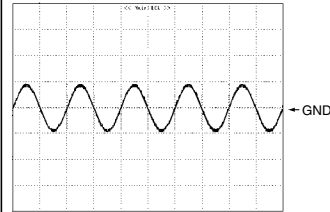
B

C

D

E

F

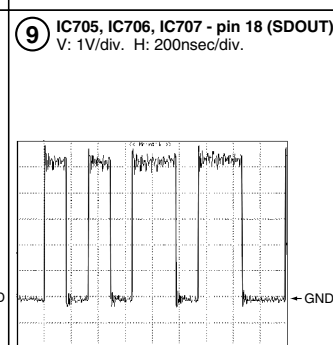
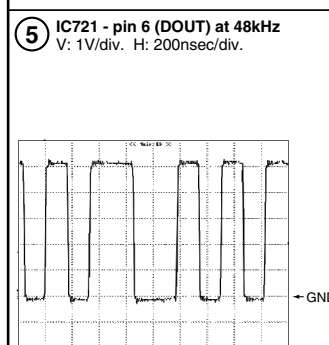
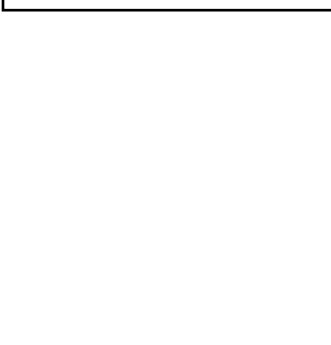
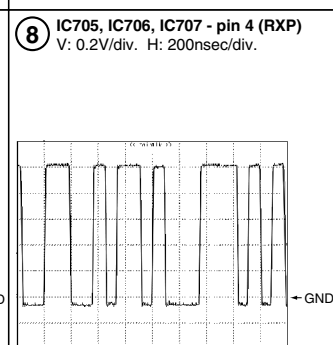
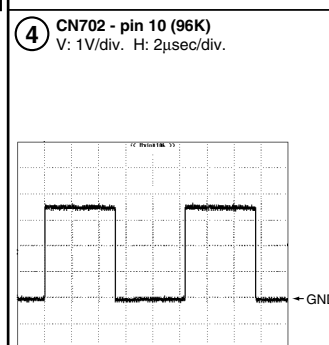
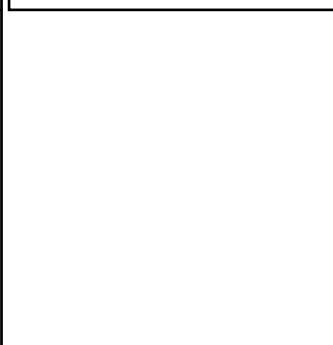
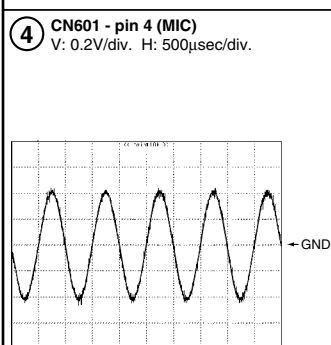
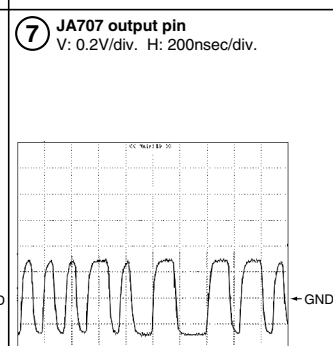
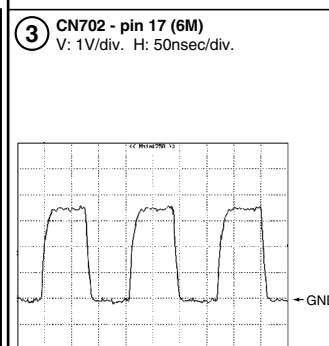
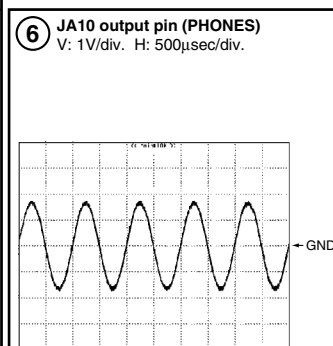
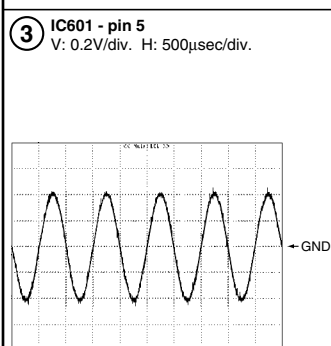
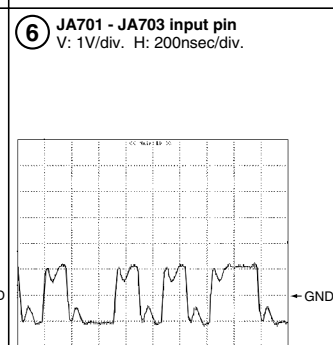
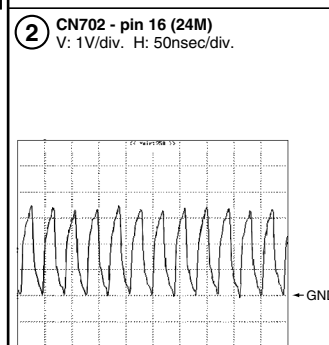
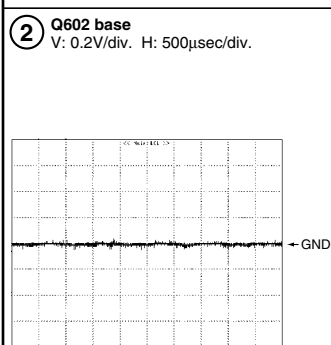
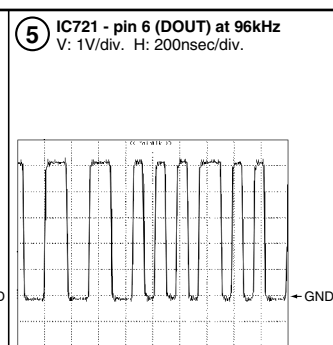
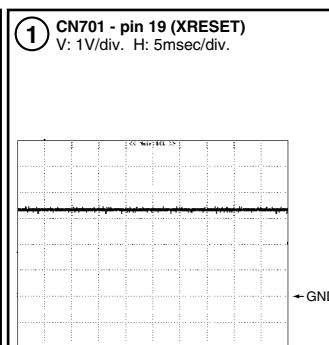
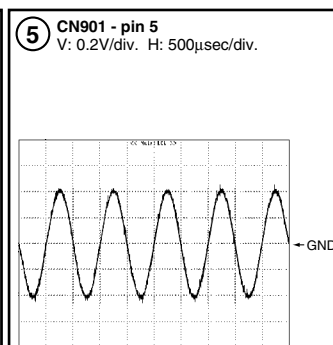
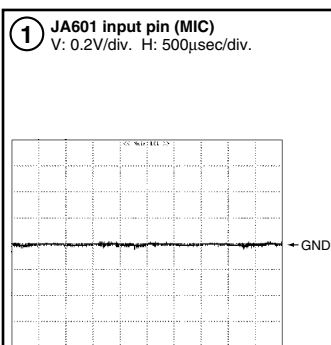
21 Between C253 and R267
V: 2V/div. H: 500 μ sec/div.

22 JA203 output pin (MASTER)
V: 2V/div. H: 500 μ sec/div.

23 CN202 - pin 11 (MASTER_L)
V: 2V/div. H: 500 μ sec/div.

24 CN202 - pin 9 (MASTER_R)
V: 2V/div. H: 500 μ sec/div.

1 CN331 - pin 4 (D_MASTER)
V: 1V/div. H: 2 μ sec/div.

2 CN331 - pin 9 (MCLK12M)
V: 1V/div. H: 50nsec/div.

3 CN331 - pin 6 (BCLK)
V: 1V/div. H: 50nsec/div.

4 CN331 - pin 8 (LRCK)
V: 1V/div. H: 2 μ sec/div.

5 IC331 - pin 23 (AOULT+)
V: 2V/div. H: 500 μ sec/div.

6 IC331 - pin 22 (AOULT-)
V: 2V/div. H: 500 μ sec/div.

7 IC332 - pin 14 (VOULT)
V: 2V/div. H: 500 μ sec/div.

8 CN332 - pin 11 (MASTER_L)
V: 2V/div. H: 500 μ sec/div.

9 Between C373 and R371
V: 2V/div. H: 500 μ sec/div.

10 Between C375 and R373
V: 2V/div. H: 500 μ sec/div.

11 JA331 output pin (MASTER1)
V: 2V/div. H: 500 μ sec/div.

12 JA331 output pin (MASTER1)
V: 2V/div. H: 500 μ sec/div.


H MIC ASSY

I MIC VR ASSY

K DIGITAL SUB ASSY

A



J HP ASSY

B

C

D

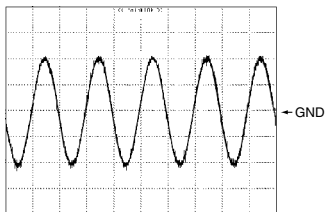
E

F

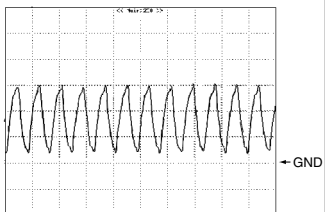
N BUS1 ASSY

O BUS2 ASSY

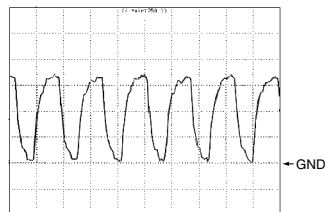
① CN510 - pin 4 (MIC)
V: 0.2V/div. H: 500μsec/div.



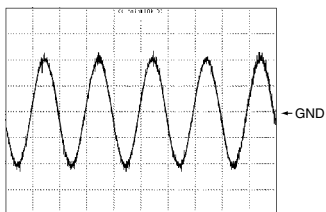
⑥ IC501 - pin 2 (24M)
V: 1V/div. H: 500nsec/div.



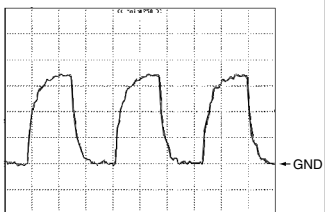
① CN311 - pin 2 (12M)
V: 1V/div. H: 50nsec/div.



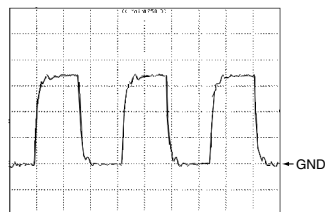
② C506 + side
V: 0.2V/div. H: 500μsec/div.



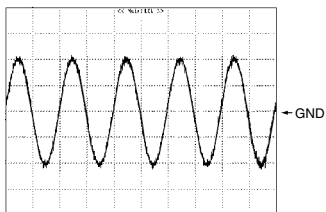
⑦ CN502 - pin 16 (6M)
V: 1V/div. H: 500nsec/div.



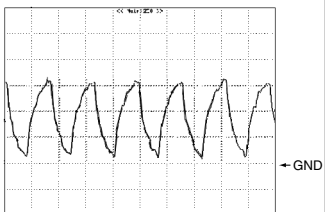
② CN311 - pin 5 (6M)
V: 1V/div. H: 50nsec/div.



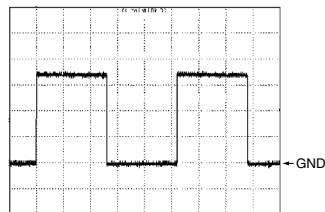
③ C514 + side
V: 0.2V/div. H: 500μsec/div.



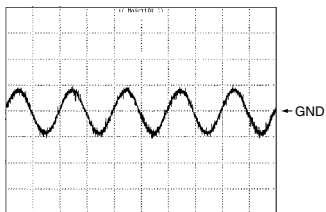
⑧ IC512 - pin 2 (12M)
V: 1V/div. H: 500nsec/div.



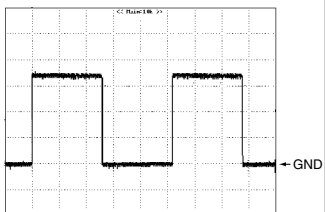
③ CN311 - pin 3 (96K)
V: 1V/div. H: 2μsec/div.



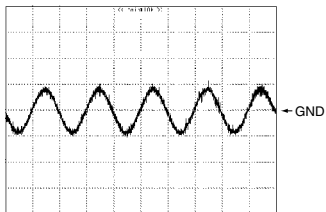
④ IC505 - pin 4 (AINL+)
V: 0.2V/div. H: 500μsec/div.



⑨ CN502 - pin 18 (96K)
V: 1V/div. H: 2μsec/div.



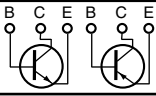
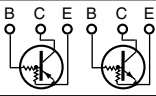
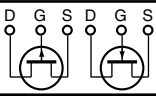
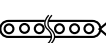
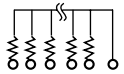
⑤ IC505 - pin 5 (AINL-)
V: 0.2V/div. H: 500μsec/div.



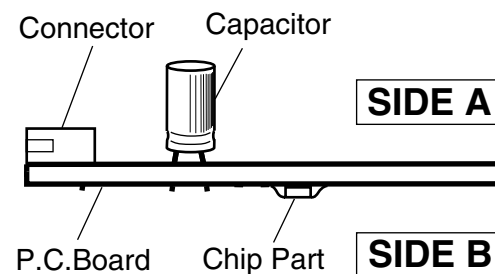
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

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

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

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



4

A

B

K CN702

C

D

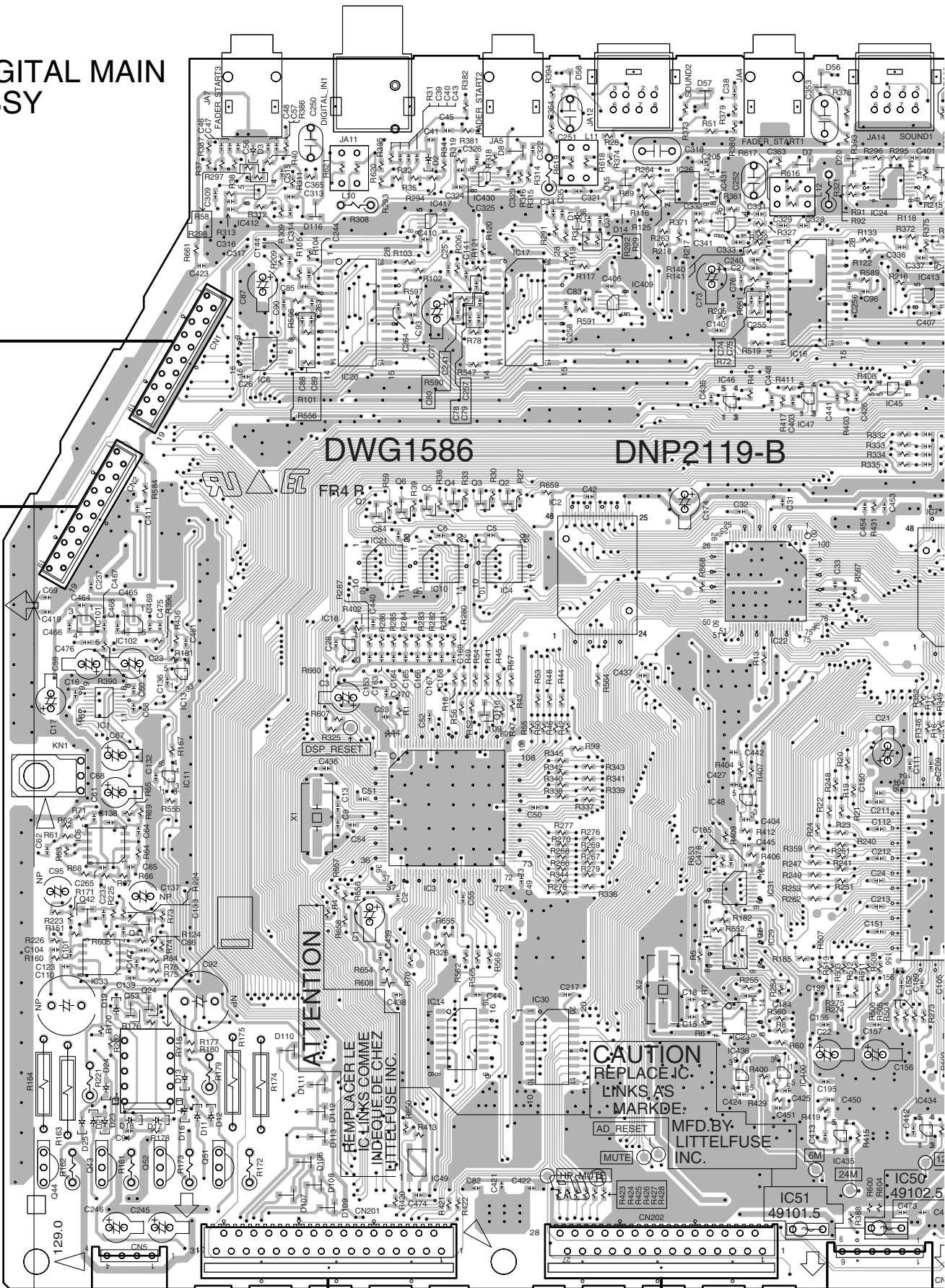
F

F

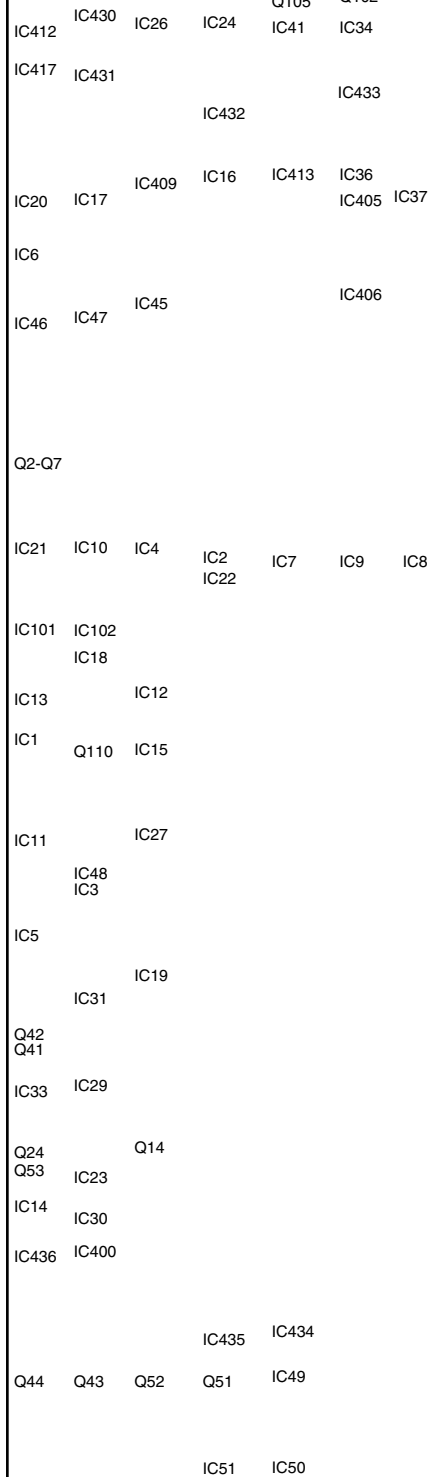
P

A

4



A



1

SIDE B

A

B

C

D

E

F

CN6

CN4

CN7

(DNP2119-B)

CN8

CN3

DJM-1000

A

SIDE B

A

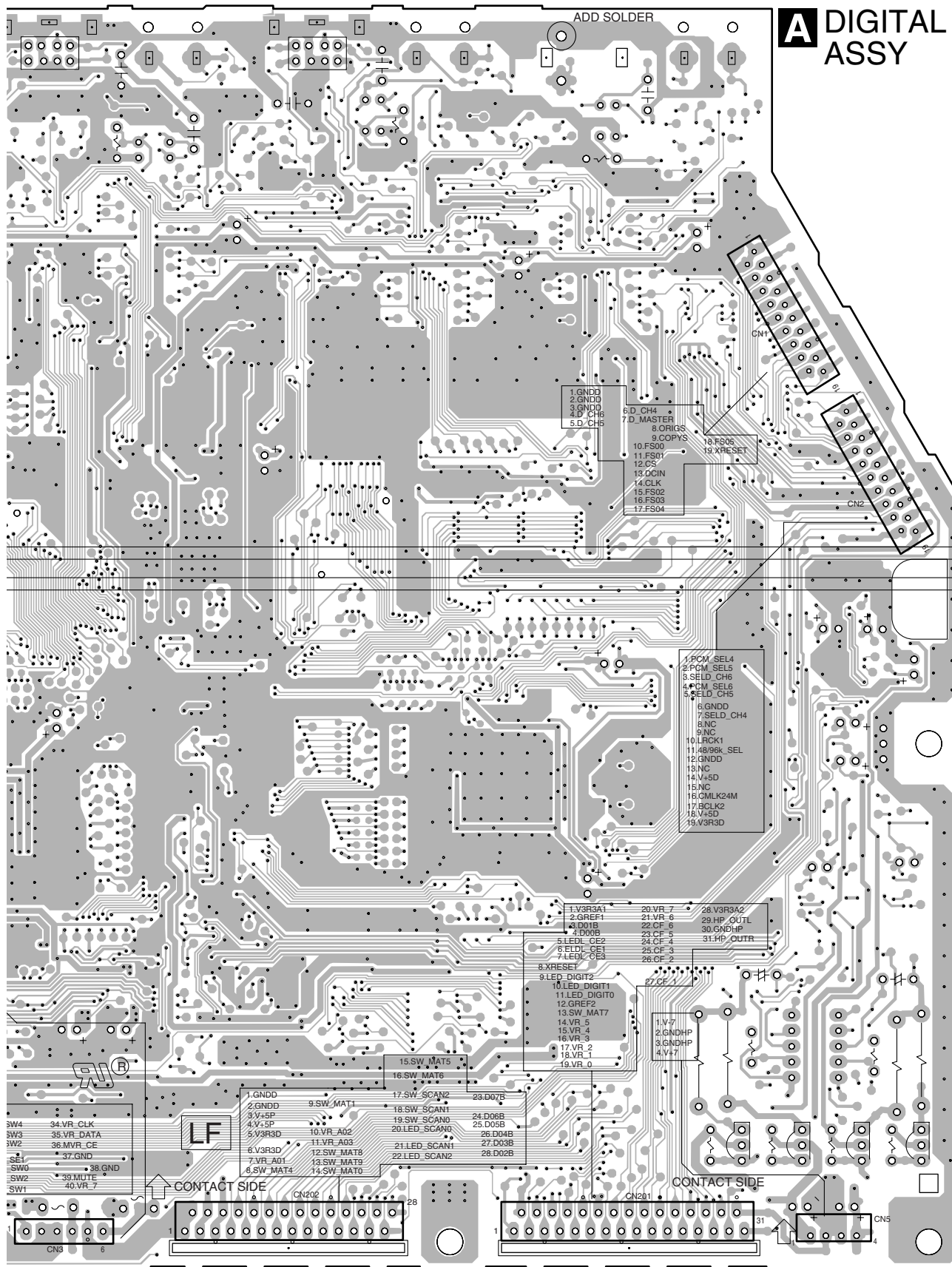
B

C

D

E

F

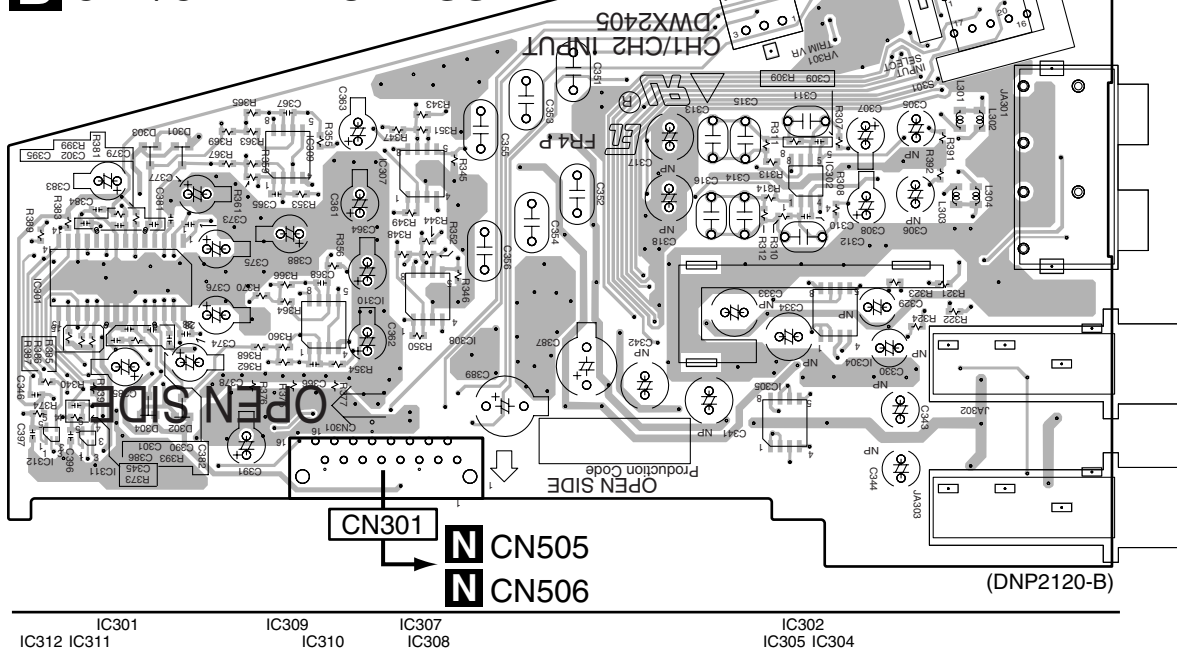


4.2 CH1/CH2 INPUT and CH3/CH4 INPUT ASSYS

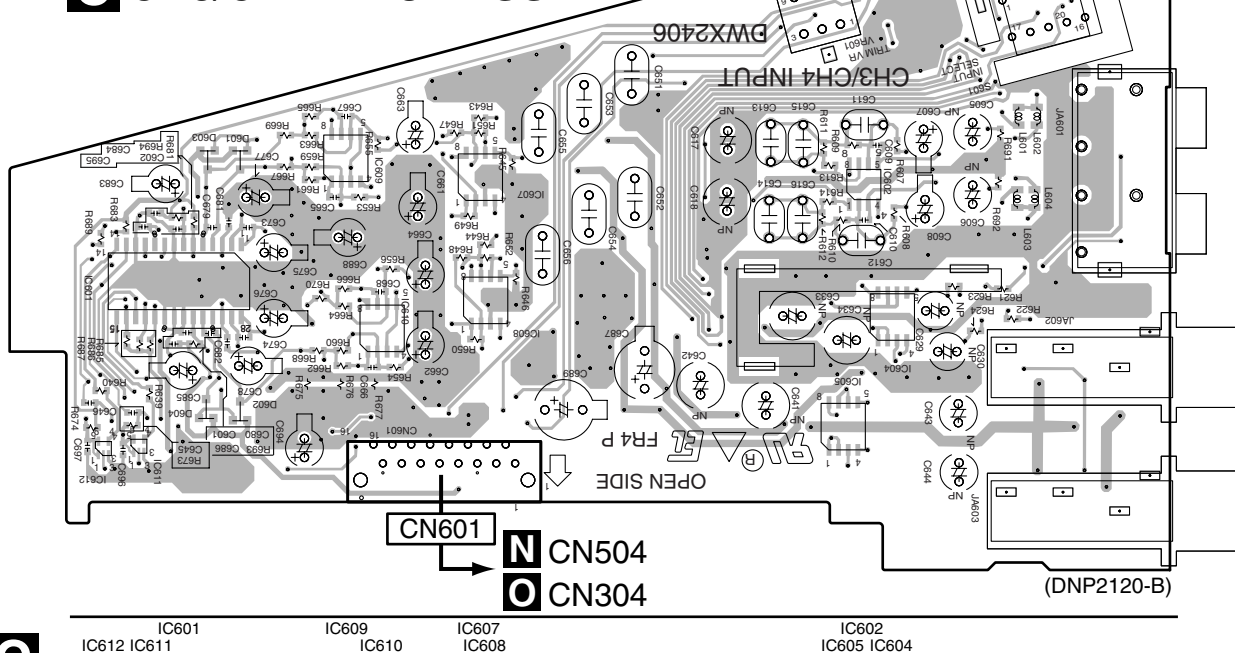
SIDE A

SIDE A

B CH1/CH2 INPUT ASSY



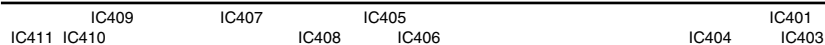
C CH3/CH4 INPUT ASSY



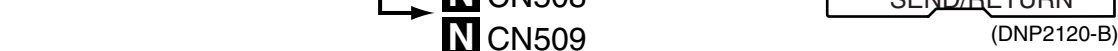
4

SIDE A

D



E

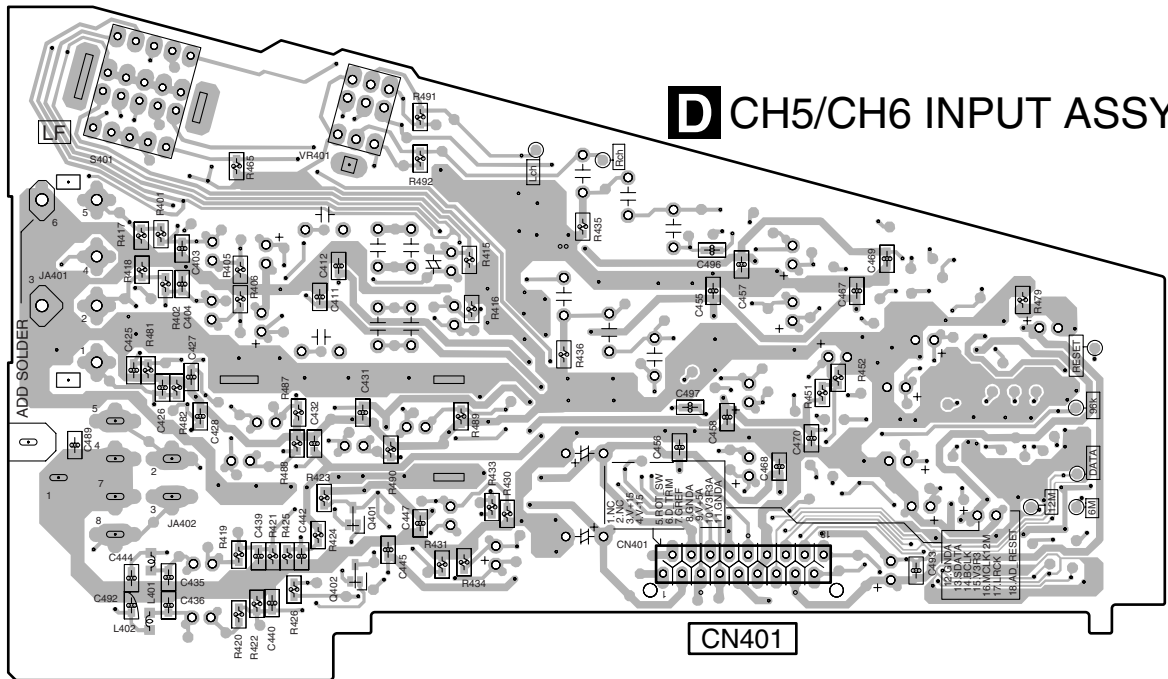


	Q503	Q501
IC502	Q504	Q502
IC507	IC505	IC504
IC508	IC506	

DE

SIDE B

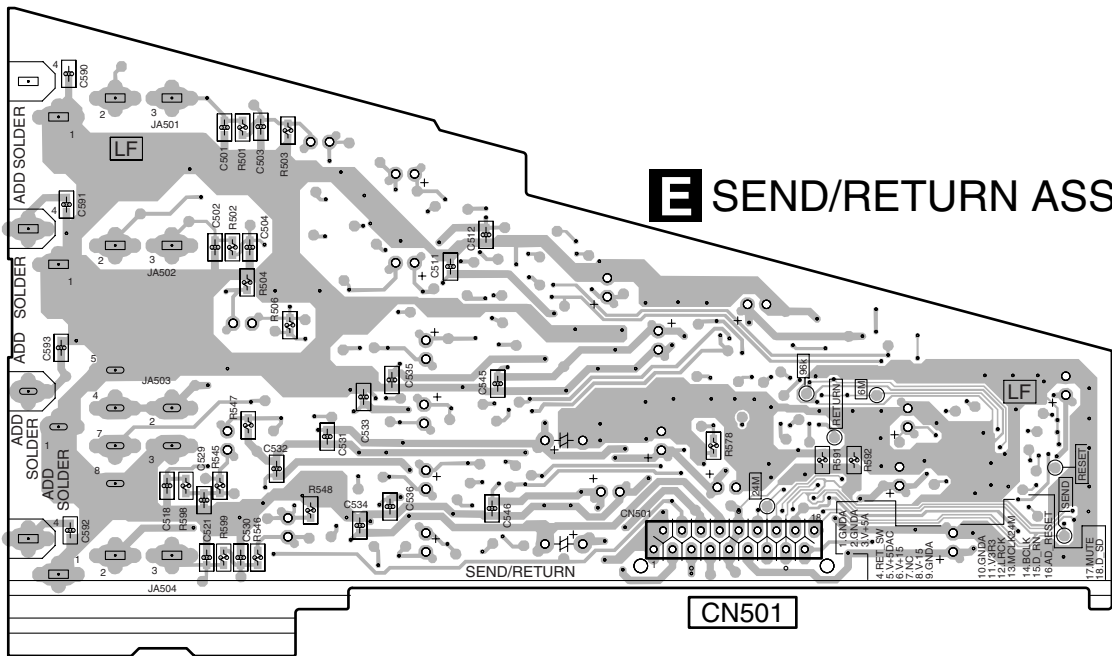
SIDE B



(DNP2120-B)

Q401
Q402

D CH5/CH6 INPUT ASSY



(DNP2120-B)

E SEND/RETURN ASSY

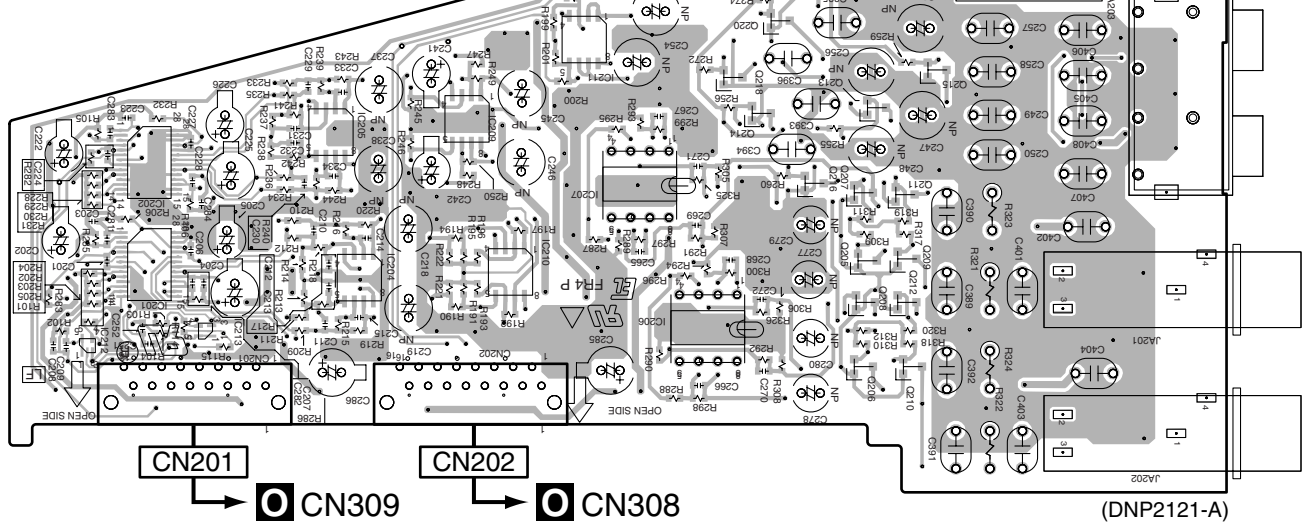
D E

4.4 BOOTH/REC and MASTER ASSYS

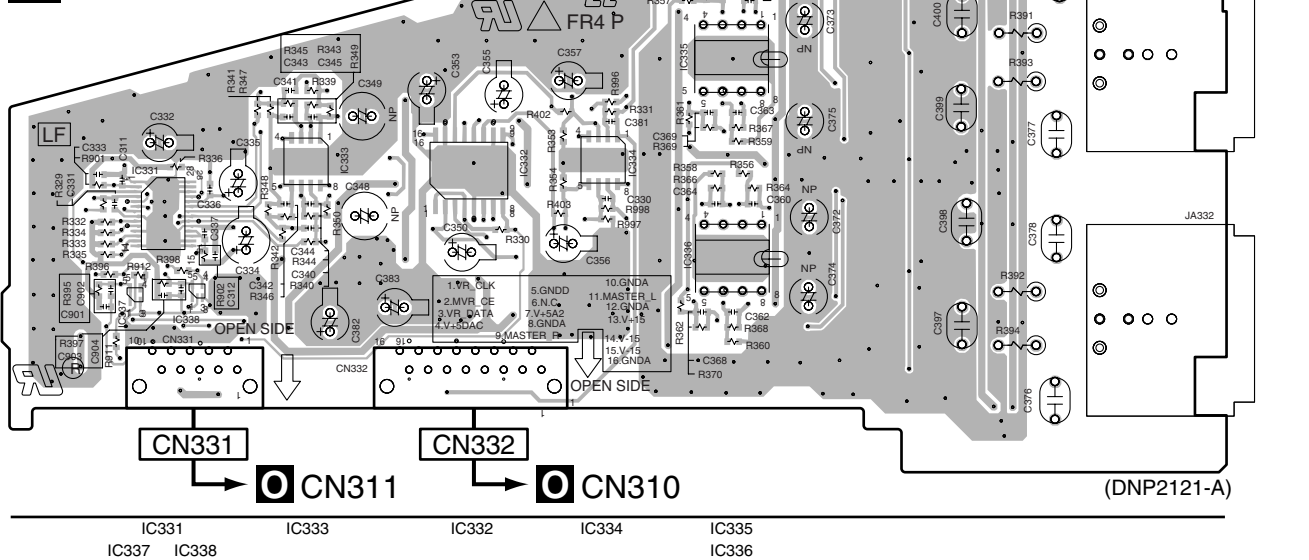
SIDE A

SIDE A

F BOOTH/REC ASSY

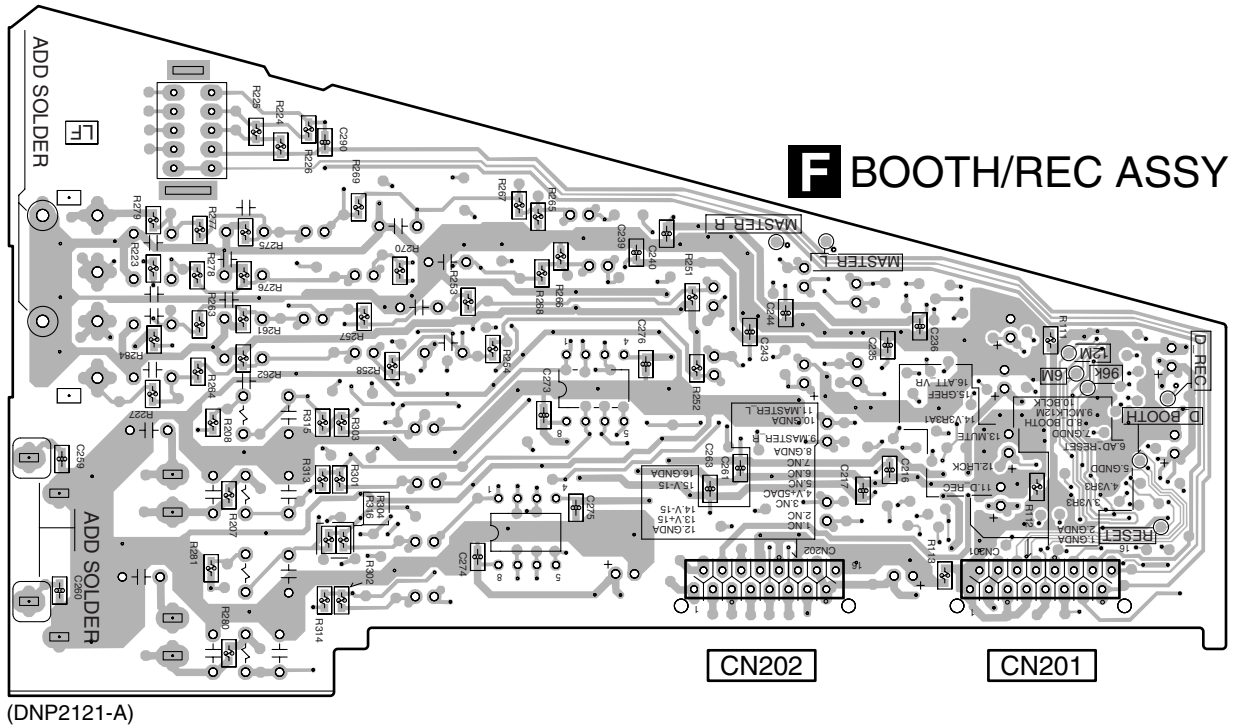


G MASTER ASSY

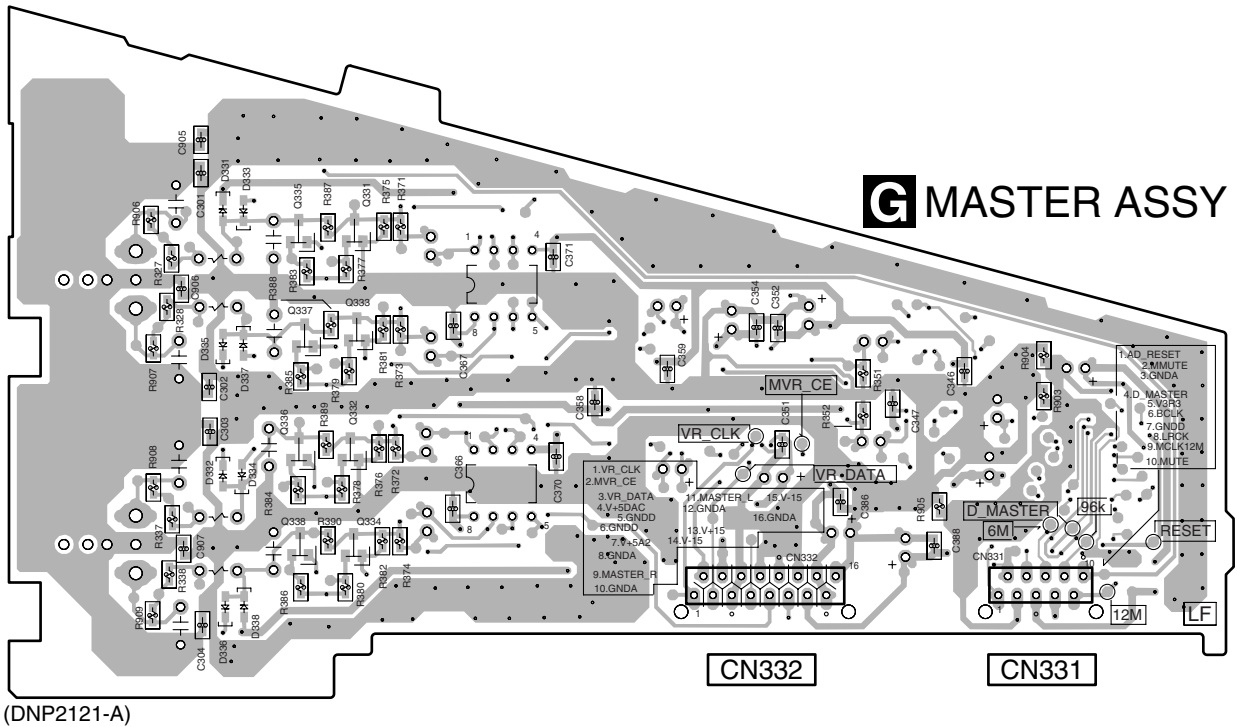


SIDE B

SIDE B



(DNP2121-A)



(DNP2121-A)

Q335 Q331
Q337 Q333
Q336 Q332
Q338 Q334

DJM-1000

F G

4.5 MIC, MIC VR, HP and DIGITAL SUB ASSYS

SIDE A

SIDE A

H MIC ASSY

J HP ASSY

CN901

CN602

CN601

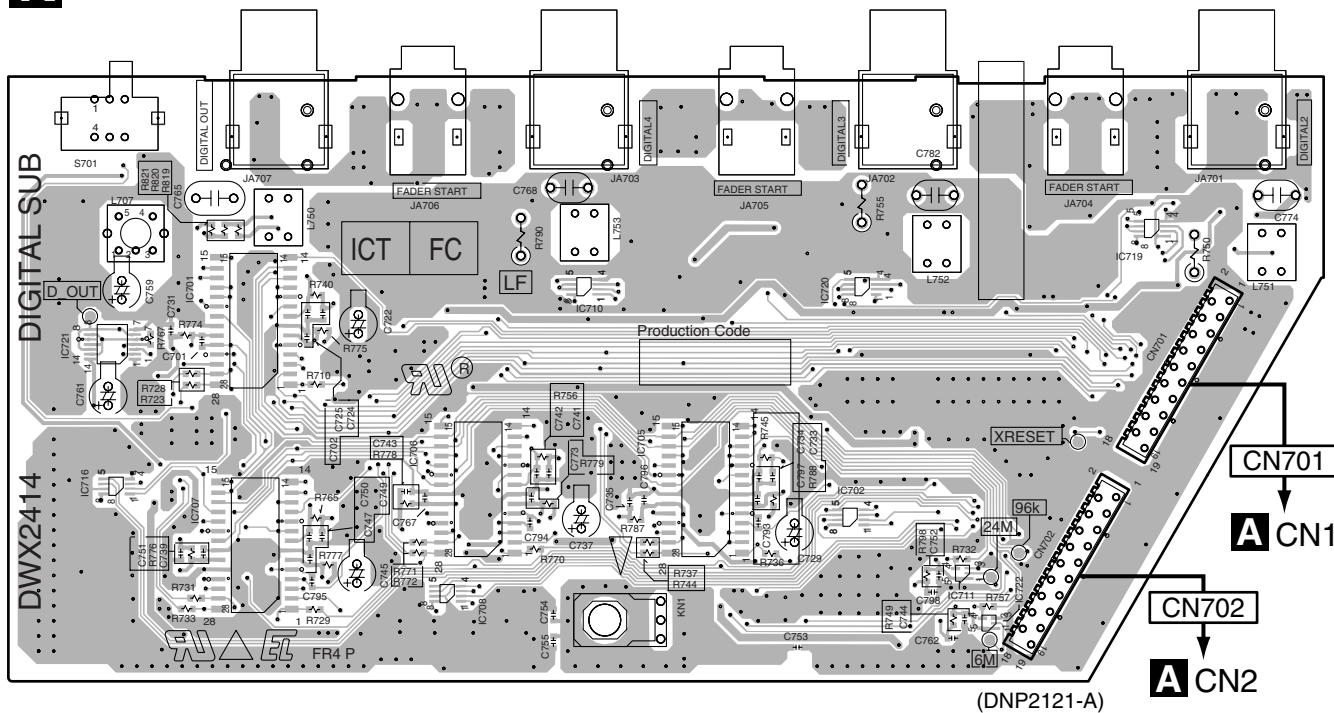
N CN510

CN9

S CN4003

I MIC VR ASSY

K DIGITAL SUB ASSY

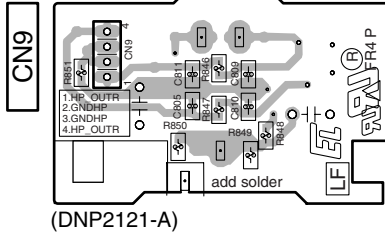


H I J K

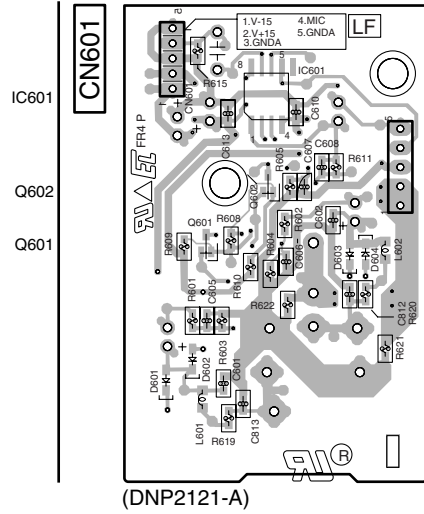
SIDE B

SIDE B

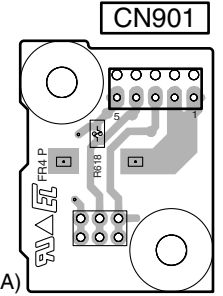
J HP ASSY



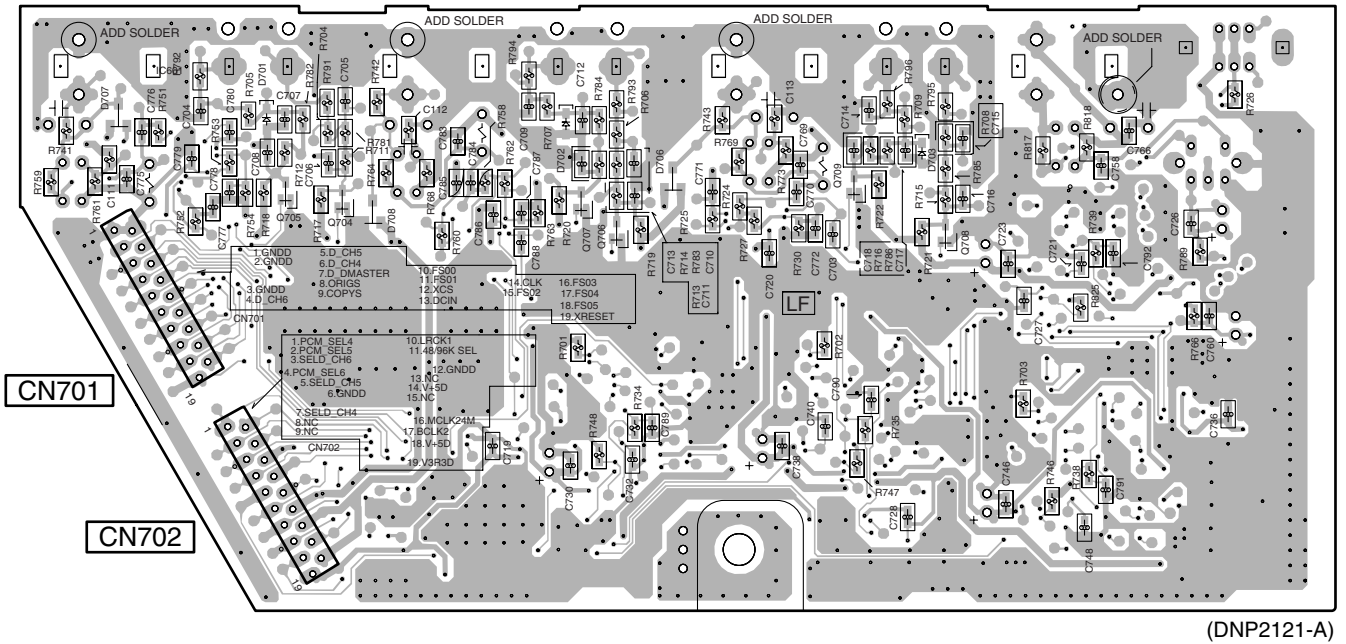
H MIC ASSY



I MIC VR ASSY



K DIGITAL SUB ASSY



Q705 Q704

Q707

Q706

Q709

H I J K

DJM-1000

△

A

M



Q



R

F

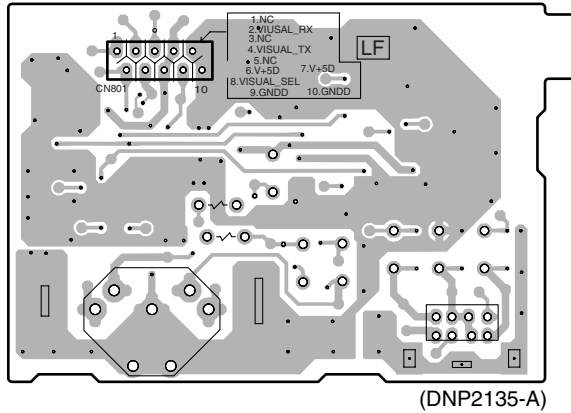
M Q

SIDE B

A

L VISUAL LINK
ASSY

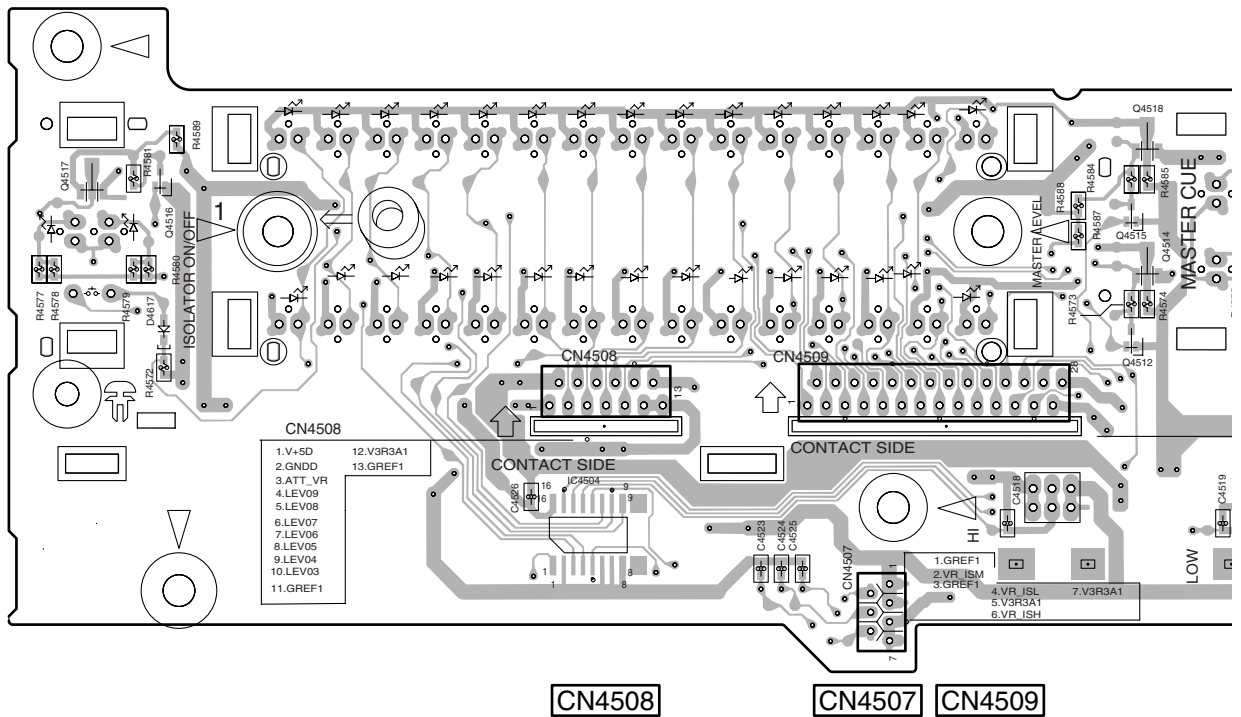
CN801



B

C

D



E

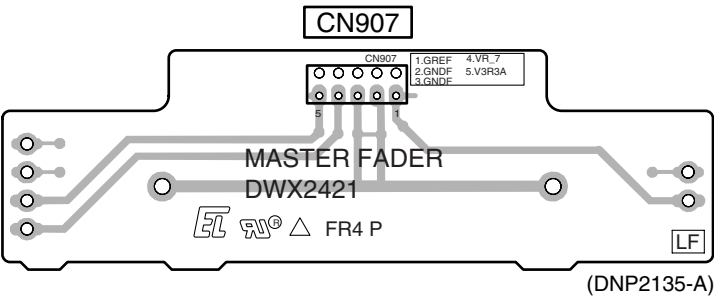
F

L **Q**

SIDE B

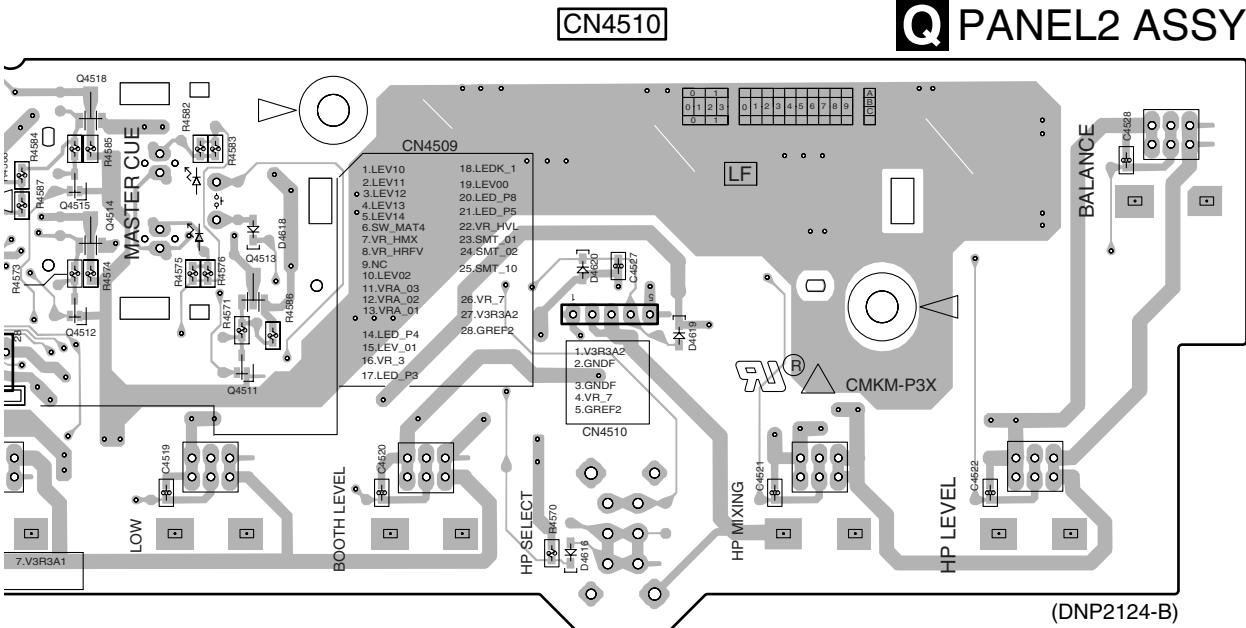
A

M MASTER FADER ASSY



B

Q PANEL2 ASSY



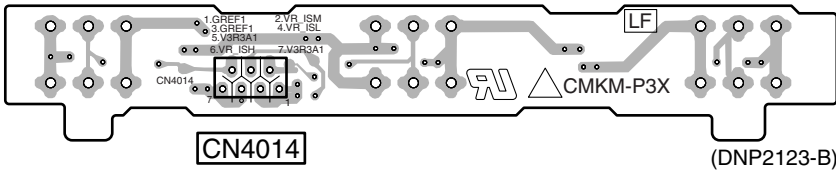
C

D

- Q4518
- Q4515
- Q4514
- Q4512
- Q4513
- Q4511

E

R ISOLATOR ASSY



F

M Q R

△

A

N



IC502

CN507

IC510

Q533

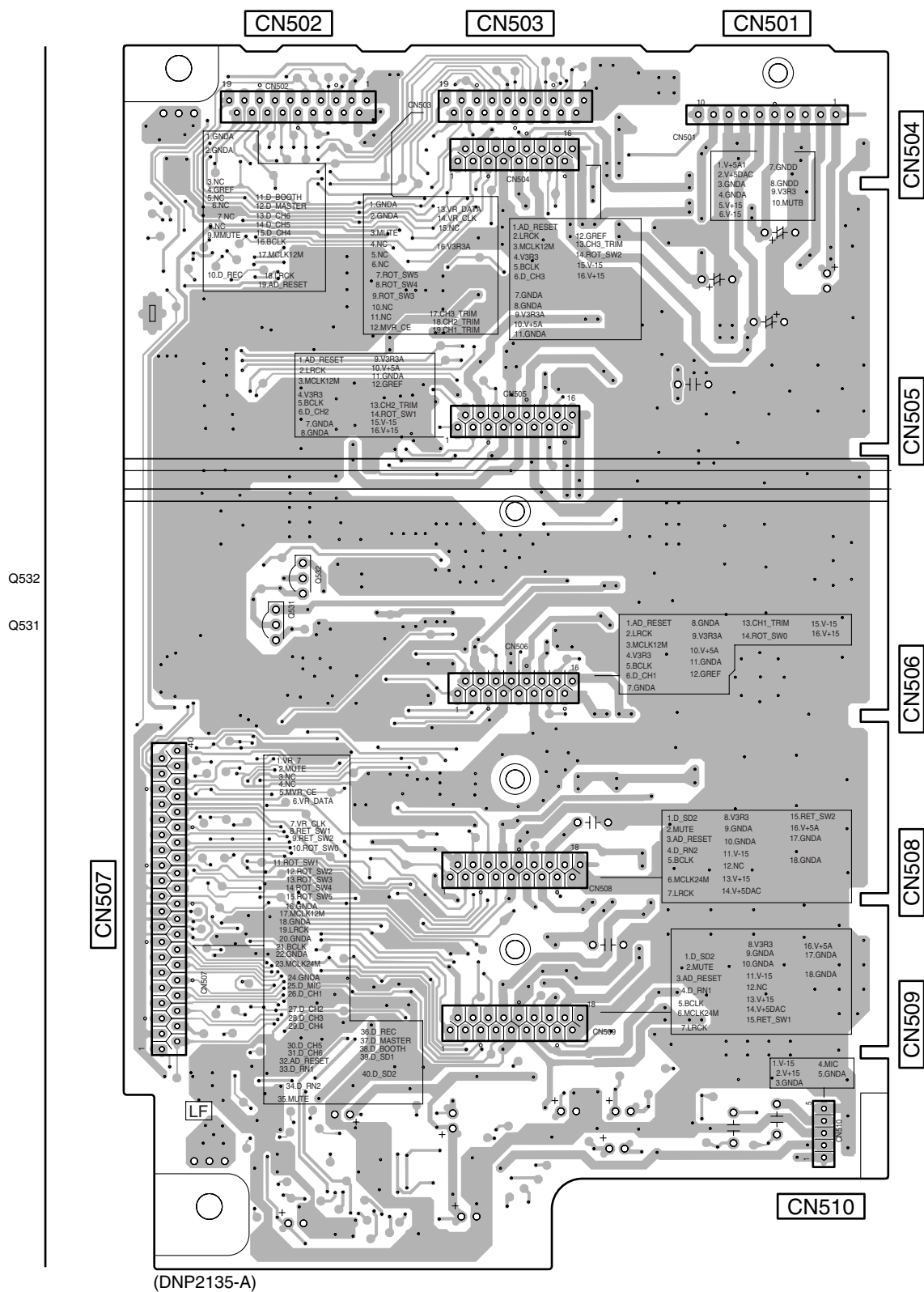
IC504
IC503
IC505

4

SIDE B

SIDE B

N BUS1 ASSY



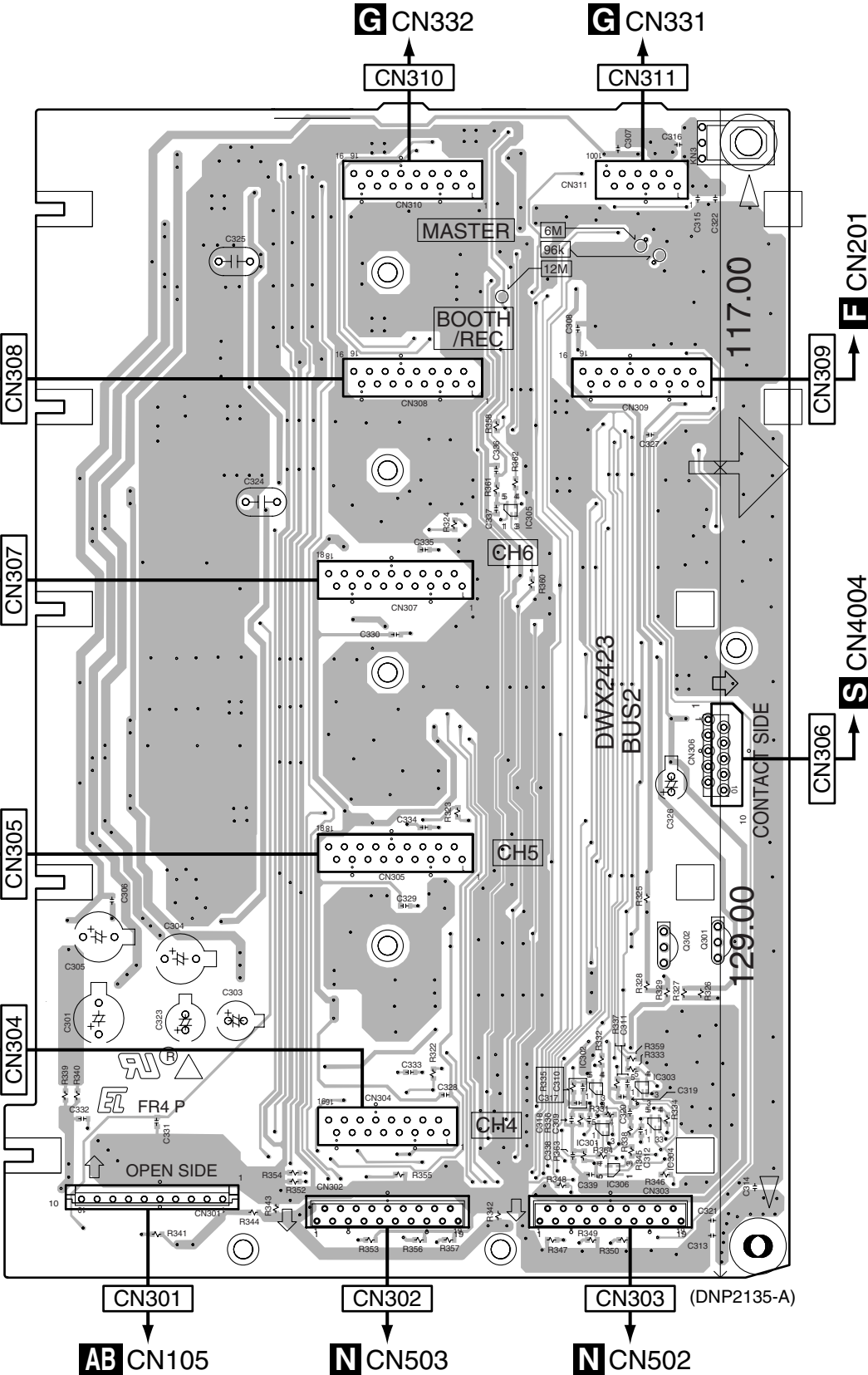
(DNP2135-A)

4.8 BUS2 ASSY

SIDE A

SIDE A

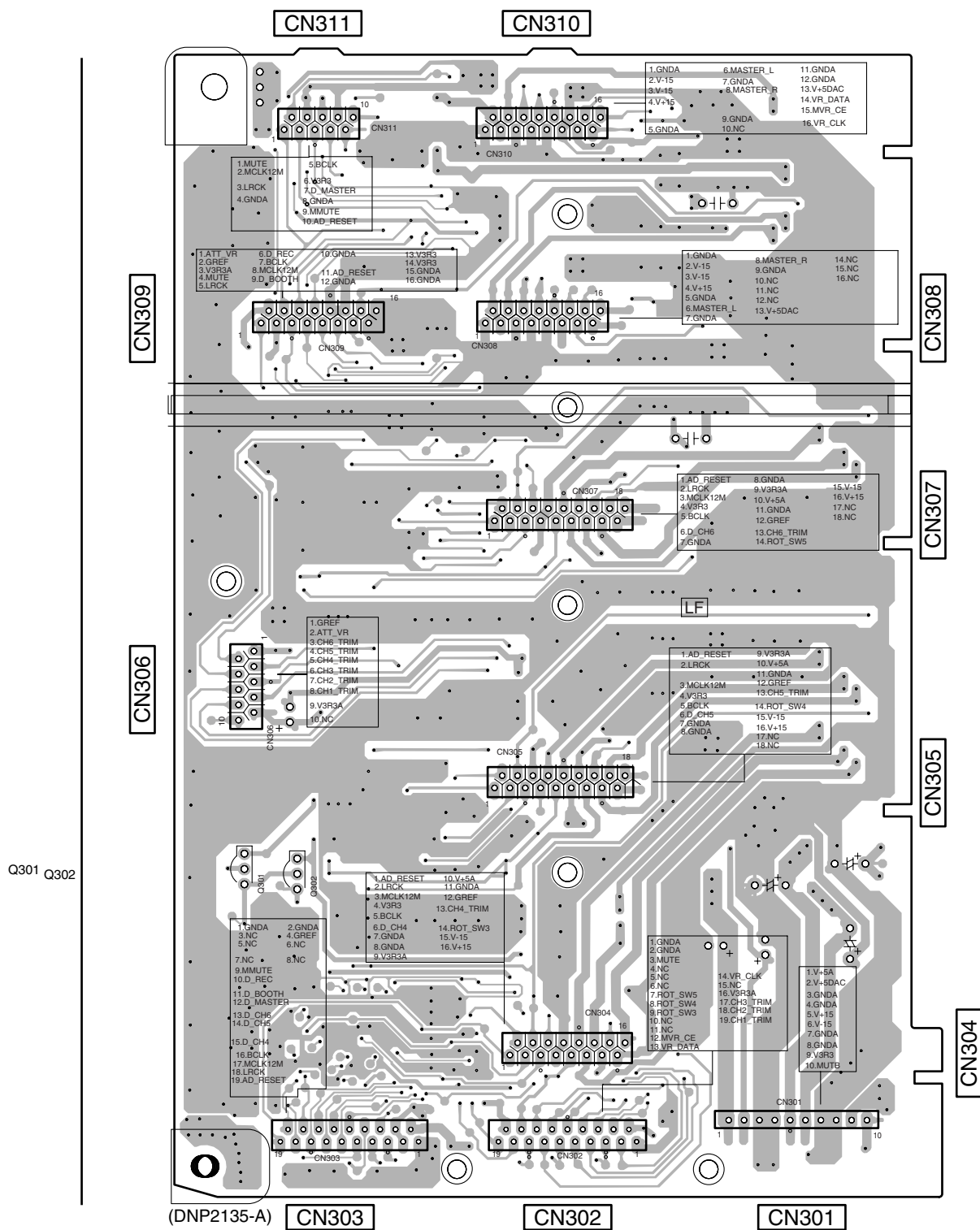
BUS2 ASSY



SIDE B

SIDE B

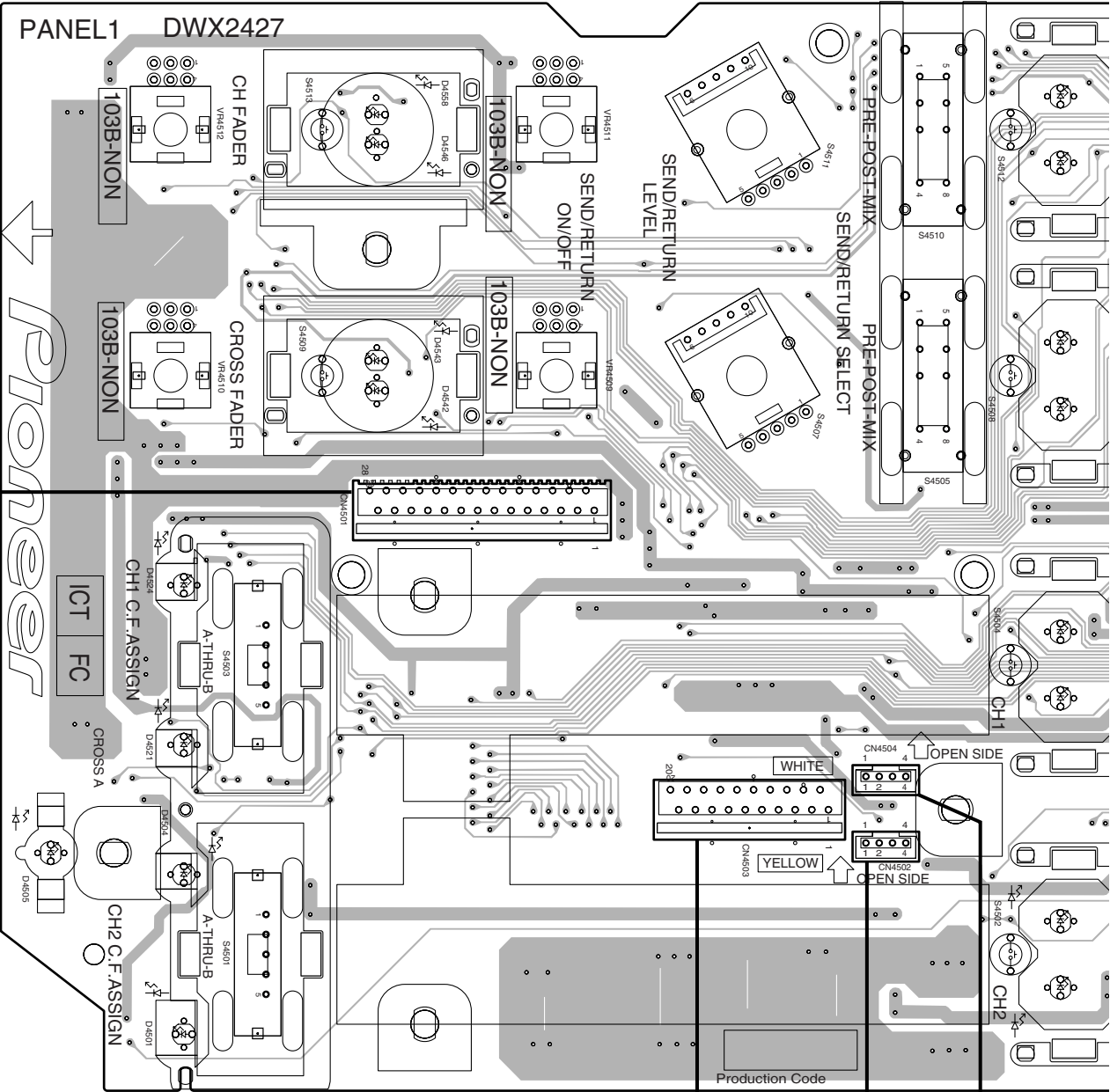
BUS2 ASSY



4.9 PANEL1 ASSY

SIDE A

PANEL1 ASSY



CN4503
CN4502
CN4504
S CN4010 W CN902 T CN901

P

1

2

3

4

SIDE B

A

B

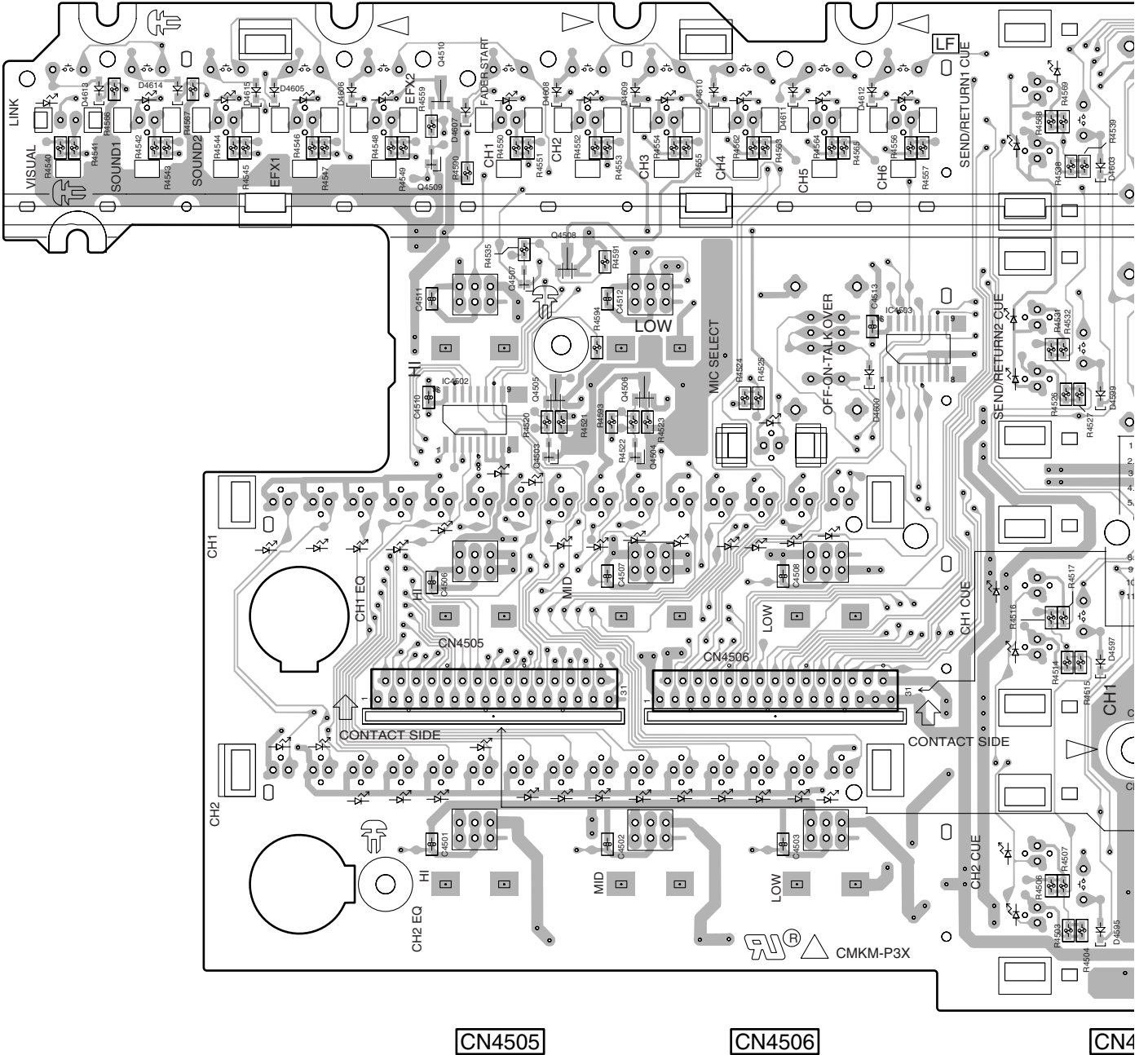
C

D

E

F

P PANEL1 ASSY



CN4505

CN4506

CN4

Q4510 Q4508 IC4503
Q4509 Q4507
IC4502 Q4505 Q4506
Q4503 Q4504

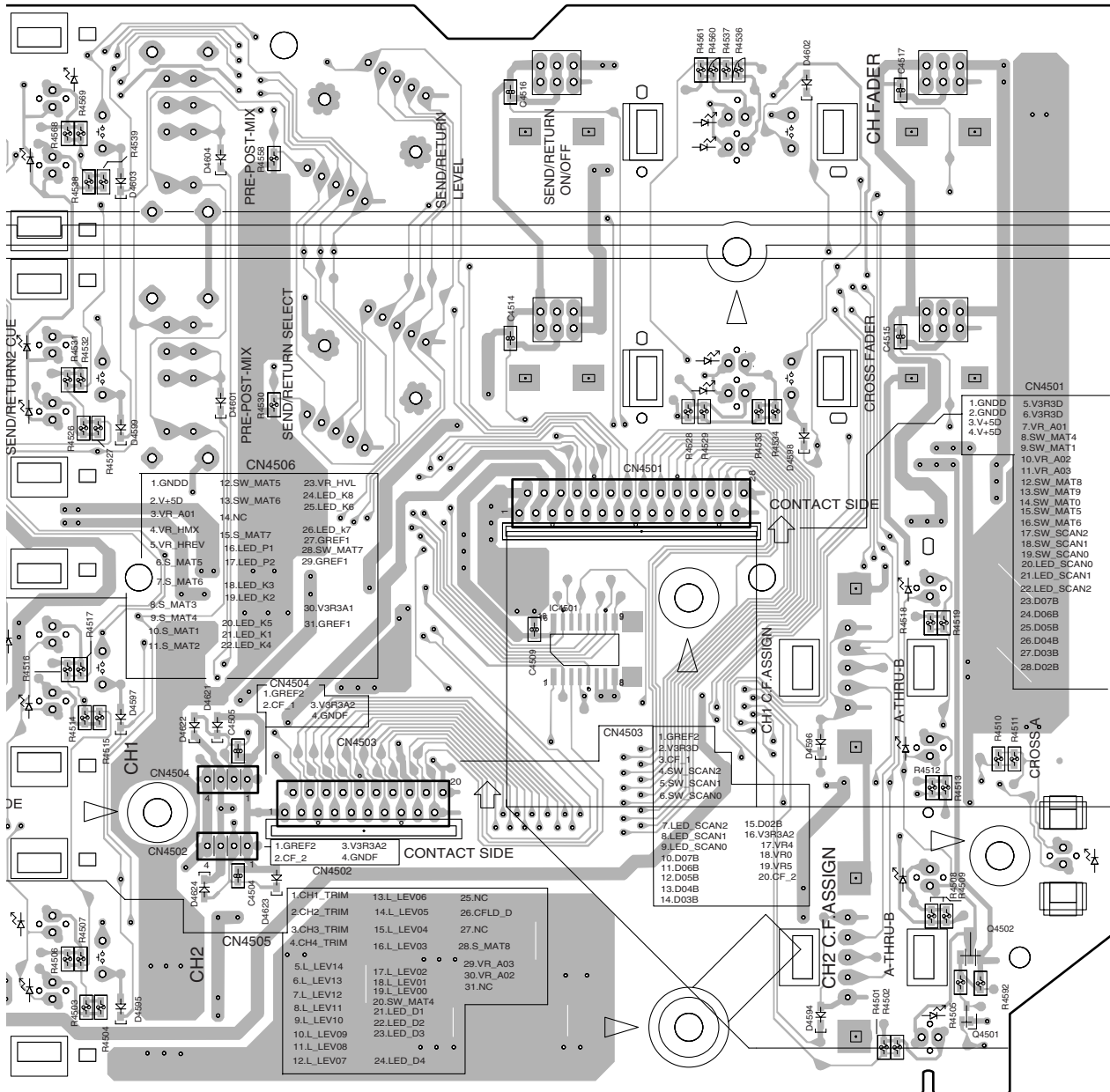
P

1

2

3

4



CN4504 CN4502 CN4503

(DNP2124-B)

IC4501

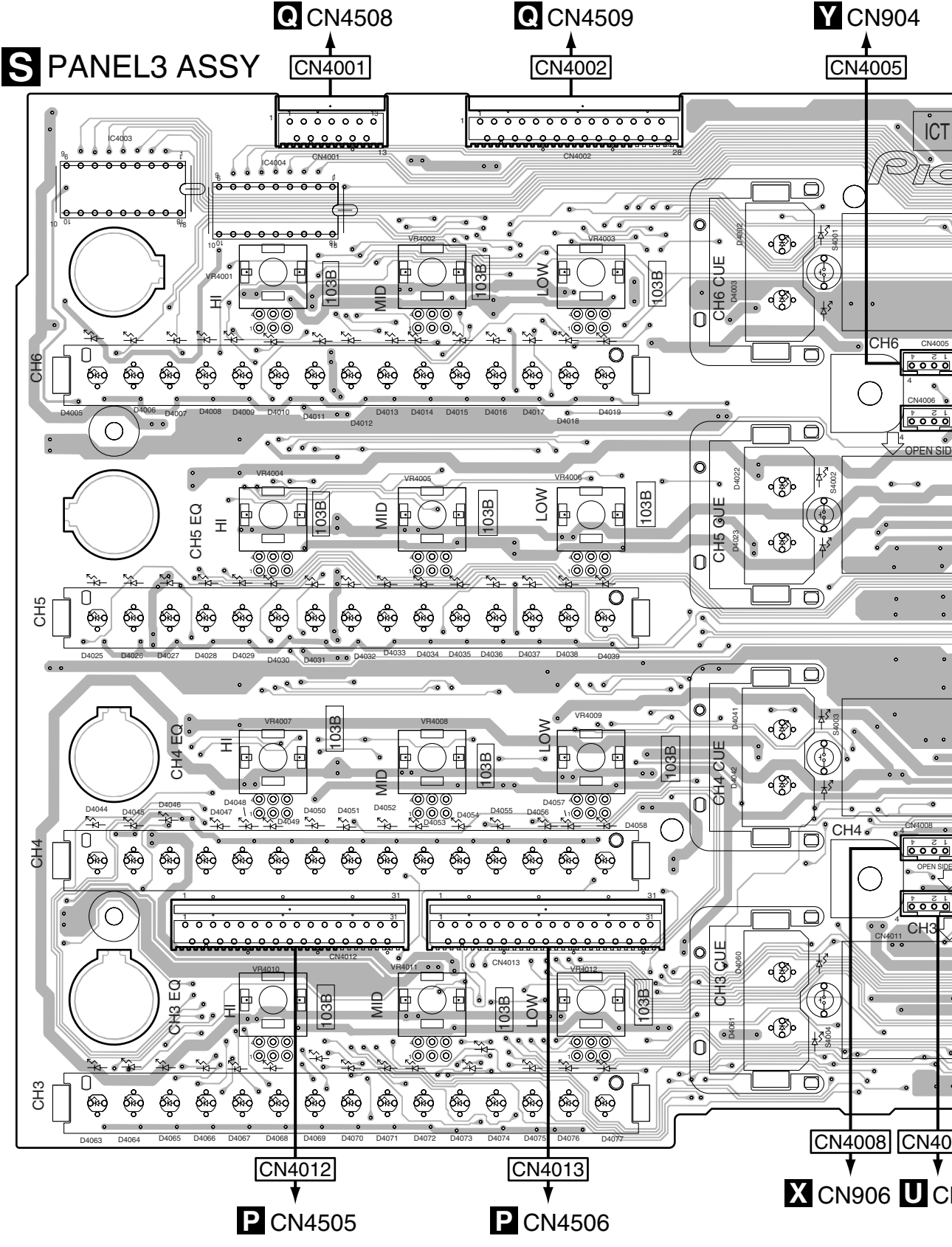
Q4502

Q4501

1 2 3 4

4.10 PANEL3 ASSY

SIDE A



S

SIDE B

A

B

C

D

E

F



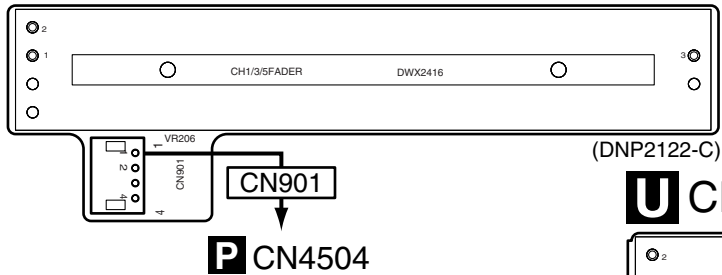
1 2 3 4

4.11 CH1/CH3/CH5 FADER, CH2/CH4/CH6 FADER and CROSS FADER ASSYS

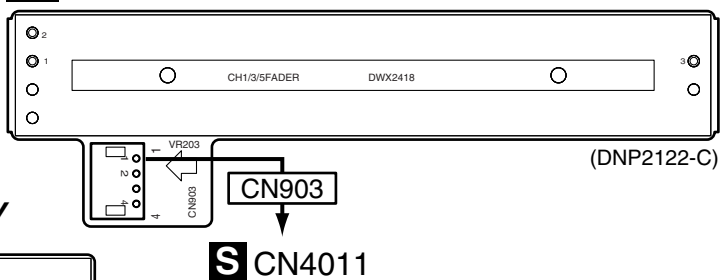
SIDE A

SIDE A

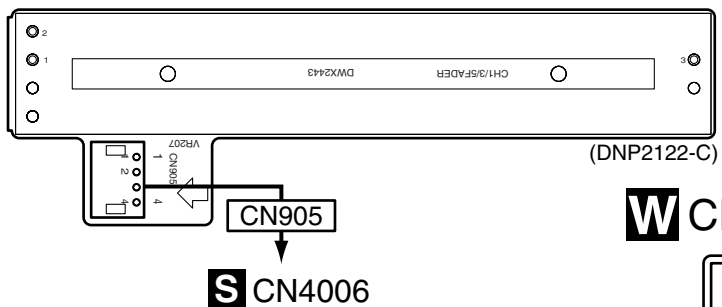
A **T** CH1/CH3/CH5 FADER ASSY



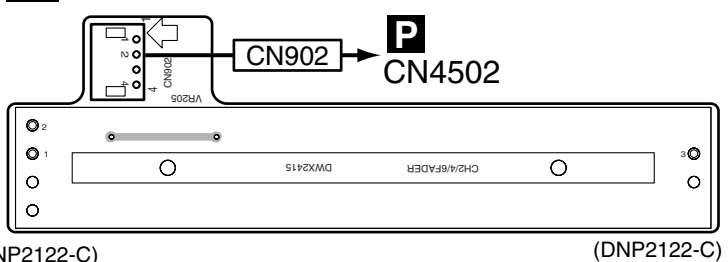
U CH1/CH3/CH5 FADER ASSY



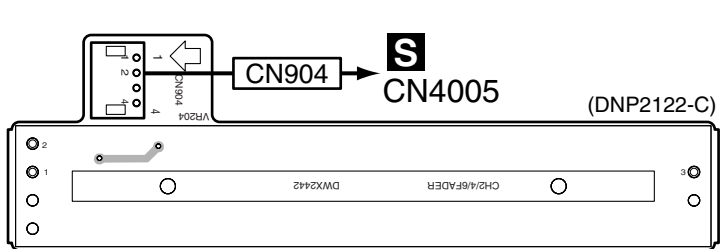
V CH1/CH3/CH5 FADER ASSY



W CH2/CH4/CH6 FADER ASSY



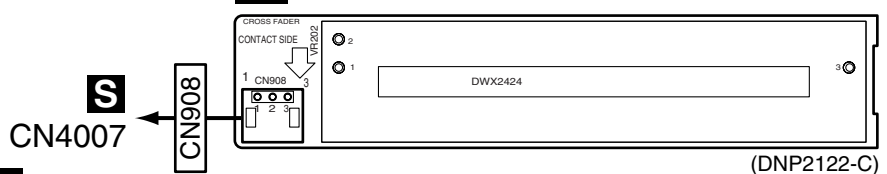
X CH2/CH4/CH6 FADER ASSY



Y CH2/CH4/CH6 FADER ASSY



Z CROSS FADER ASSY

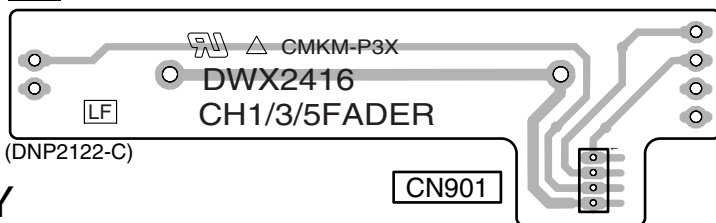


T U V W X Y Z

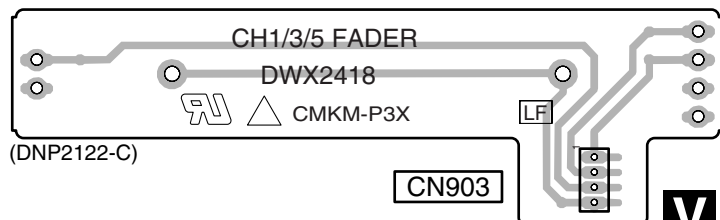
SIDE B

SIDE B

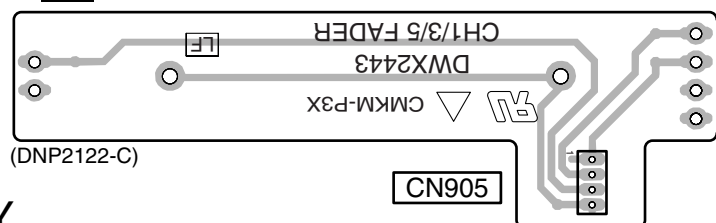
T CH1/CH3/CH5 FADER ASSY



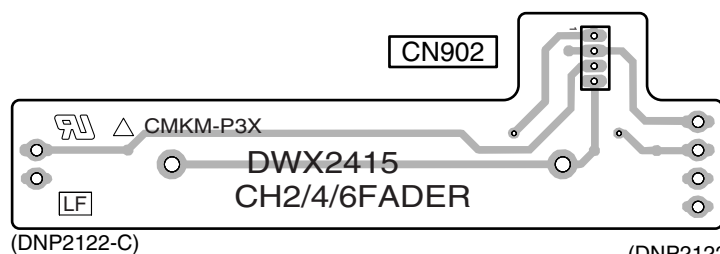
U CH1/CH3/CH5 FADER ASSY



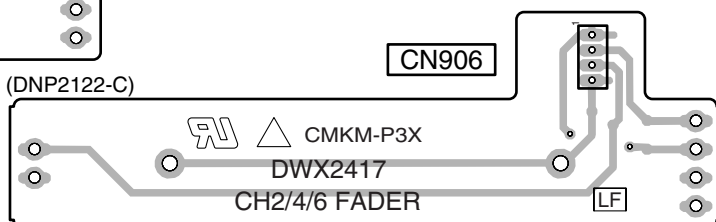
V CH1/CH3/CH5 FADER ASSY



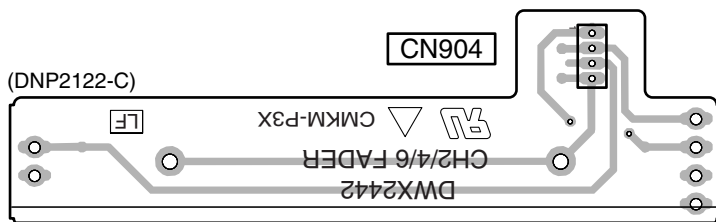
W CH2/CH4/CH6 FADER ASSY



(DNP2122-C)

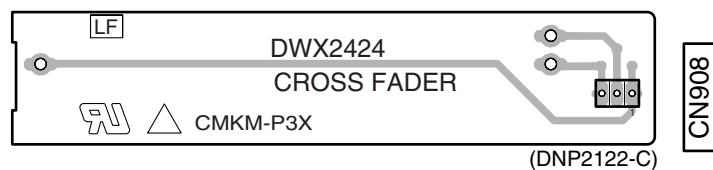


X CH2/CH4/CH6 FADER ASSY



Y CH2/CH4/CH6 FADER ASSY

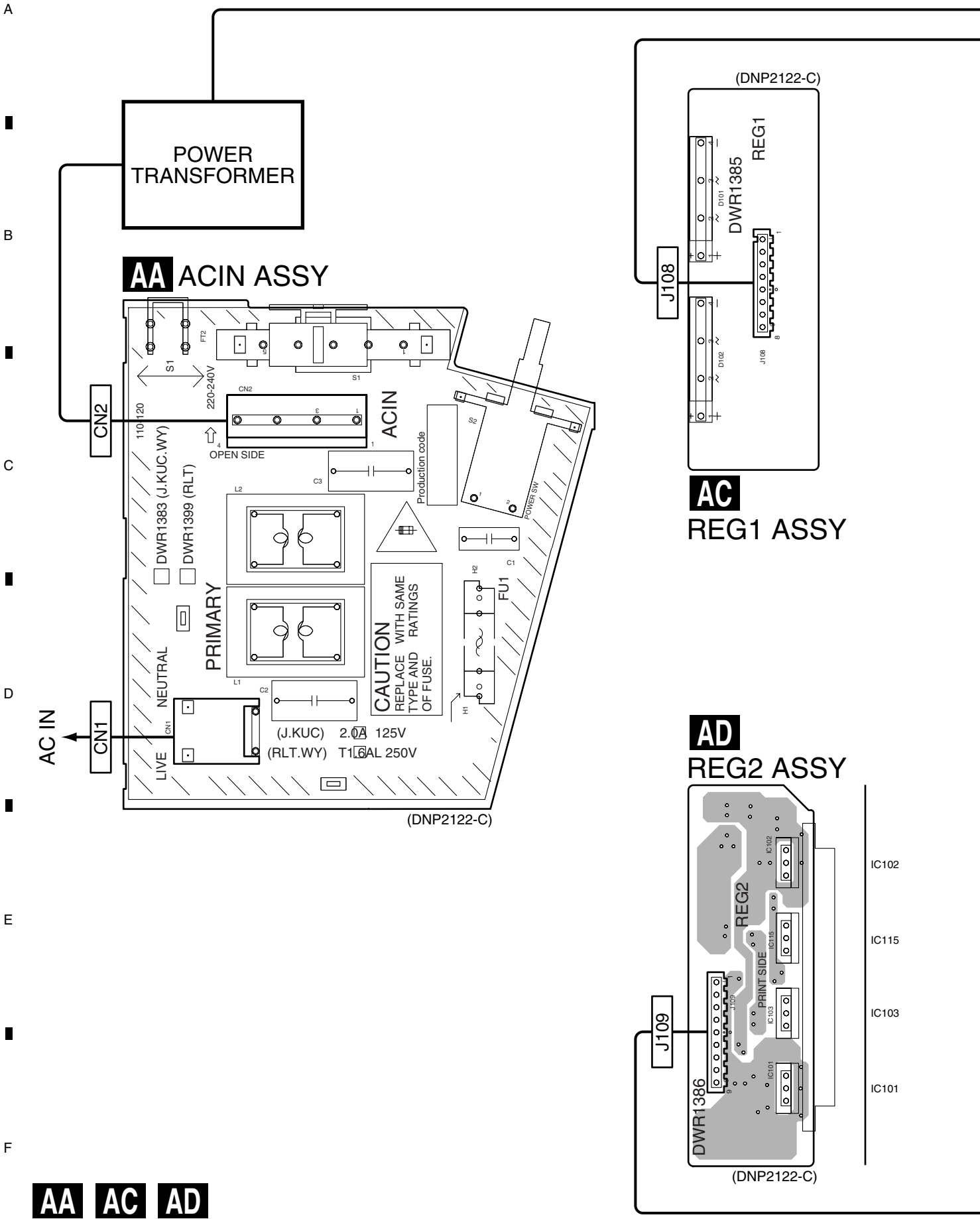
Z CROSS FADER ASSY



T U V W X Y Z

4.12 ACIN, POWER, REG1 and REG2 ASSYS

SIDE A



AA AC AD

A



C

D

F

F

AB

A

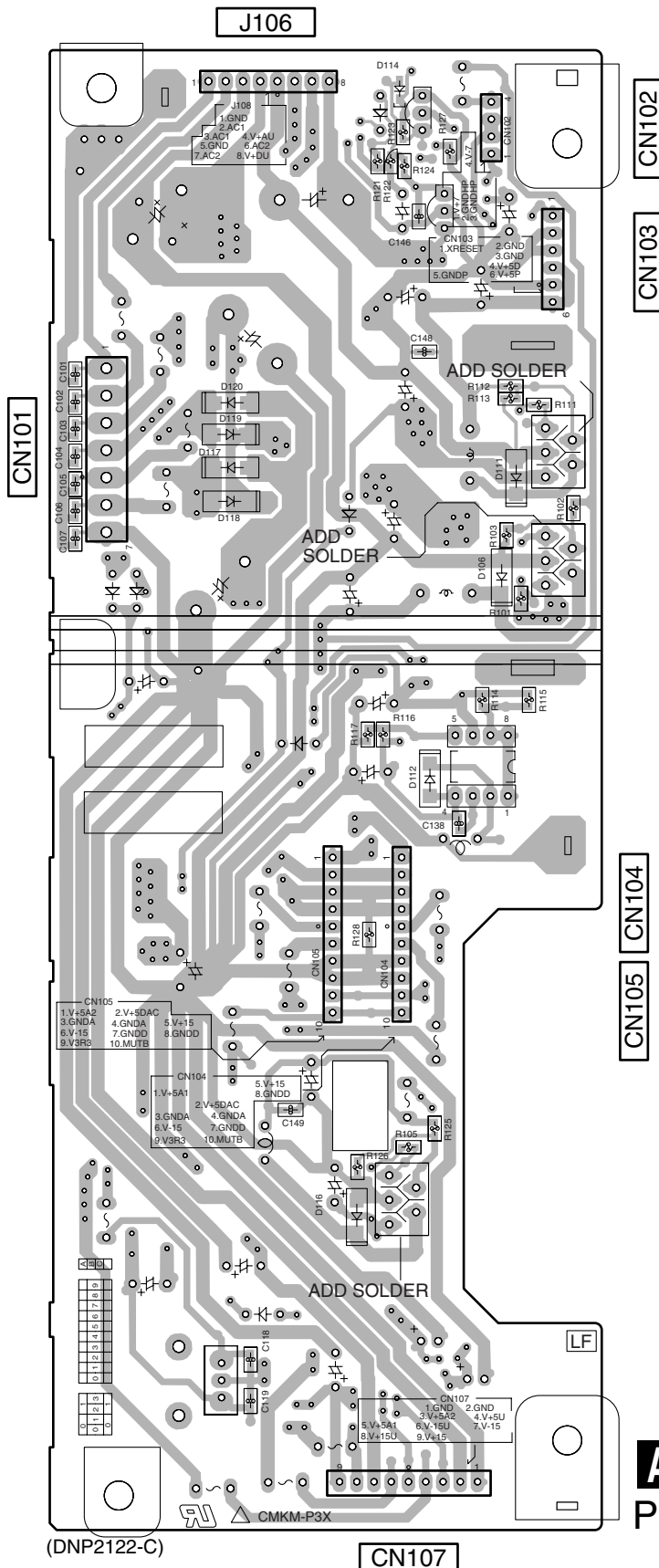
B

C

D

E

F



AB
POWER ASSY

AB

SIDE B

A

B

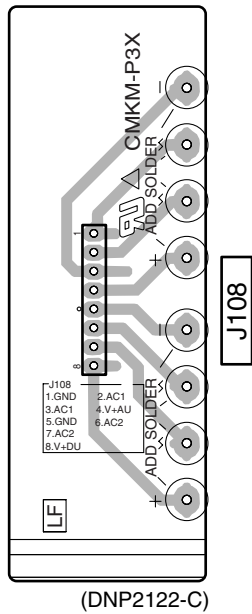
C

D

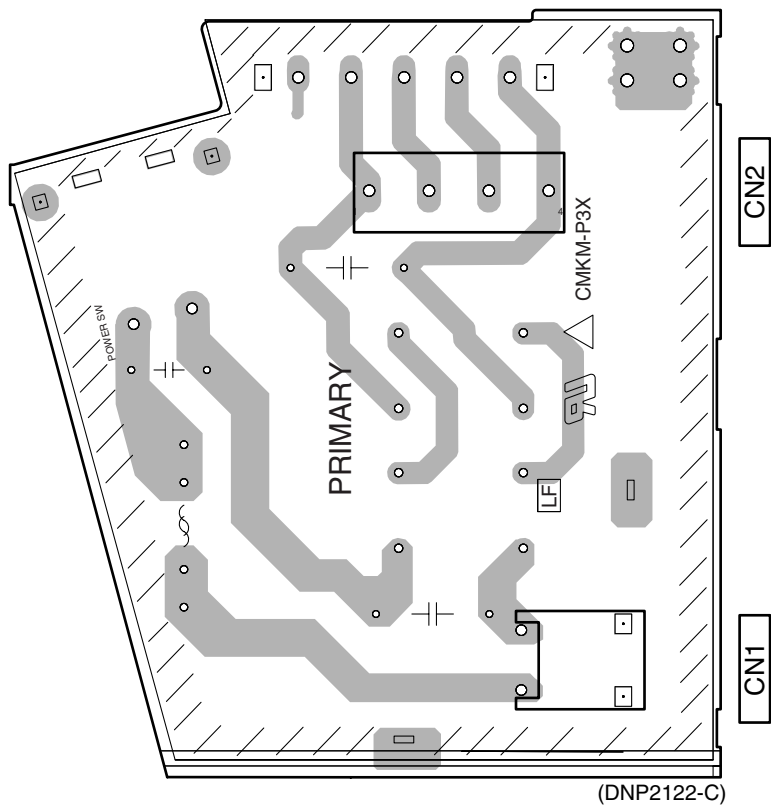
E

F

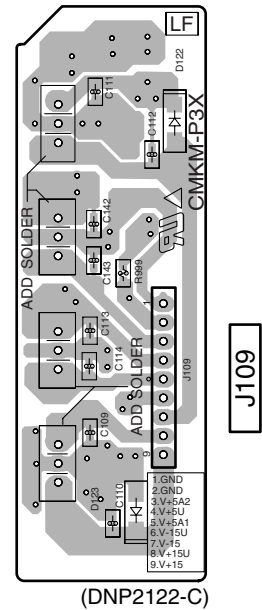
AC
REG1 ASSY



AA ACIN ASSY



AD
REG2 ASSY



AA AC AD

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
●The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.
●When ordering resistors, first convert resistance values into code form as shown in the following examples.
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω → 56 x 10¹ → 561 RD1/4PU561J
47k Ω → 47 x 10³ → 473 RD1/4PU473J
0.5 Ω → R50 RN2H R50K
1 Ω → 1R0 RS1P 1R0K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 x 10¹ → 5621 RN1/4PC5621F

LIST OF HOLE PCB ASSEMBLIES

Mark	Symbol and Description	DJM-1000/ KUCXJ	DJM-1000/ WYXJ	DJM-1000/ RLTXJ
NSP	1..DIGITAL MAIN ASSY	DWG1586	DWG1586	DWG1586
	1..INPUT ASSY	DWM2190	DWM2190	DWM2190
	2..CH1/CH2 INPUT ASSY	DWX2405	DWX2405	DWX2405
	2..CH3/CH4 INPUT ASSY	DWX2406	DWX2406	DWX2406
	2..CH5/CH6 INPUT ASSY	DWX2407	DWX2407	DWX2407
NSP	2..SEND/RETURN ASSY	DWX2408	DWX2408	DWX2408
	1..SUB ASSY	DWM2191	DWM2191	DWM2191
	2..BOOTH/REC ASSY	DWX2409	DWX2409	DWX2409
	2..MASTER ASSY	DWX2410	DWX2410	DWX2410
	2..MIC ASSY	DWX2411	DWX2411	DWX2411
NSP	2..MIC VR ASSY	DWX2466	DWX2466	DWX2466
	2..HP ASSY	DWX2412	DWX2412	DWX2412
	2..DIGITAL SUB ASSY	DWX2414	DWX2414	DWX2414
	1..BUS ASSY	DWM2202	DWM2202	DWM2202
	2..VISUAL LINK ASSY	DWX2413	DWX2413	DWX2413
NSP	2..MASTER FADER ASSY	DWX2421	DWX2421	DWX2421
	2..BUS1 ASSY	DWX2422	DWX2422	DWX2422
	2..BUS2 ASSY	DWX2423	DWX2423	DWX2423
	1..PANEL B ASSY	DWM2194	DWM2194	DWM2194
	2..PANEL1 ASSY	DWX2427	DWX2427	DWX2427
NSP	2..PANEL2 ASSY	DWX2428	DWX2428	DWX2428
	1..PANEL A ASSY	DWM2193	DWM2193	DWM2193
	2..ISOLATOR ASSY	DWX2425	DWX2425	DWX2425
	2..PANEL3 ASSY	DWX2426	DWX2426	DWX2426
NSP	1..POWER ASSY	DWM2192	DWM2192	DWM2203
	2..CH1/CH3/CH5 FADER ASSY	DWX2416	DWX2416	DWX2416
	2..CH1/CH3/CH5 FADER ASSY	DWX2418	DWX2418	DWX2418
	2..CH1/CH3/CH5 FADER ASSY	DWX2443	DWX2443	DWX2443
	2..CH2/CH4/CH6 FADER ASSY	DWX2415	DWX2415	DWX2415
	2..CH2/CH4/CH6 FADER ASSY	DWX2417	DWX2417	DWX2417
	2..CH2/CH4/CH6 FADER ASSY	DWX2442	DWX2442	DWX2442
	2..CROSS FADER ASSY	DWX2424	DWX2424	DWX2424
	2..ACIN ASSY	DWR1383	DWR1383	DWR1399
	2..POWER ASSY	DWR1384	DWR1384	DWR1384
	2..REG1 ASSY	DWR1385	DWR1385	DWR1385
	2..REG2 ASSY	DWR1386	DWR1386	DWR1386

CONTRAST OF PCB ASSEMBLIES

AA ACIN ASSY

DWR1383 and DWR1399 are constructed the same except for the following :

Mark	Symbol and Description	DWR1383	DWR1399
⚠	S1 VOLTAGE SELECTOR	Not used	AKX7004

Mark No.	Description	Part No.	Mark No.	Description	Part No.
A	DIGITAL MAIN ASSY		SWITCHES AND RELAYS		
	SEMICONDUCTORS		RY1		DSR1018
	IC8,IC9	ADS7842E	CAPACITORS		
	△ IC51 (750mA)	AEK7077	C15		CCSRCH150J50
	(Serial No. EAMP000001JP to 15JP (JJXJ))		C18		CCSRCH180J50
	(Serial No. EAMP000001YY to 40YY (WYXJ))		C315,C323,C331,C337,C347		CCSRCH220J50
	(Serial No. EAMP000001LY to 20LY (RLTXJ))		C8		CCSRCH220J50
	△ IC51 (1.5A) (OTHERS)	AEK7011	C313,C321,C328,C335,C345		CCSRCH221J50
	△ IC50 (2.5A)	AEK7014	C404		CCSRCH221J50
	IC38	BA033FP	C13		CCSRCH270J50
	IC16,IC17,IC20,IC36,IC37	CS8420-CSZD1	C114,C121,C316,C325,C332		CCSRCH470J50
	IC22	CY7C024AV-25AXC	C339,C349		CCSRCH470J50
	IC32	D610A002BPYP225	C109,C119		CCSRCH561J50
	IC7	DYW1739	C104,C139		CCSRCH820J50
	IC2	DYW1740	C137,C95		CEANP100M16
	IC3	M30802SGP	C110,C92		CEANP221M16
	IC33	NJM2068M	C1,C11,C124,C14,C145		CEAT100M50
	IC101	NJM2872F05	C156,C17,C174-C176		CEAT100M50
	IC102	NJM2872F33	C178,C179,C186,C188		CEAT100M50
	IC5	NJM4580MD	C21-C23,C4,C59		CEAT100M50
	IC1	PCM1742KE	C67,C68,C7,C73,C77		CEAT100M50
	IC49	PST591JM	C87		CEAT100M50
	IC14	TC74HC238AF	C245,C246,C3		CEAT101M16
	IC30	TC74HC541AF	C471		CEAT101M25
	IC12	TC74LCX157FTS1	C100,C135		CEAT470M16
	IC6	TC74VHC157FTS1	C149		CEAT471M10
	IC29,IC31	TC74VHC163FT	C29,C30		CEAT471M25
	IC10,IC21,IC4	TC74VHC573FTS1	C318,C343,C352,C353		CFTLA104J50
	IC24,IC26,IC34,IC41	TC74VHCT04AFTS1	C113,C120,C153,C163-C169		CKSRYB102K50
	IC23	TC74VHCU04FT	C131,C140-C144,C172,C25		CKSRYB103K50
	IC15	TC7SET08FUS1	C27,C309,C314,C322,C326		CKSRYB103K50
	IC11,IC13,IC18,IC400	TC7SH08FUS1	C329,C333,C336,C34,C342		CKSRYB103K50
	IC434-IC436,IC45,IC47,IC48	TC7SH08FUS1	C346,C35,C351,C36,C37		CKSRYB103K50
	IC405,IC406,IC409,IC413,IC417	TC7WH157FU	C39-C41,C411,C43		CKSRYB103K50
	IC412,IC430-IC433	TC7WU04FU	C46-C48,C56,C85		CKSRYB103K50
	IC19,IC27	TPS54110PWP	C10,C105-C108,C111,C112		CKSRYB104K25
	Q44,Q52	2SB1238X	C115,C118,C12,C122,C123		CKSRYB104K25
	Q14	2SC2411K	C125-C127,C132,C134,C136		CKSRYB104K25
	Q41,Q42	2SC3326	C138,C146,C148,C150-C152		CKSRYB104K25
	Q102,Q105	2SC4081	C154,C155,C157,C158,C16		CKSRYB104K25
	Q43,Q51	2SD1859X	C177,C181-C185,C187,C189		CKSRYB104K25
	Q110	DTA124EUA	C19,C194,C195,C197-C199		CKSRYB104K25
	Q2,Q24,Q3-Q5,Q53	DTC124EUA	C2,C200,C201,C203-C205		CKSRYB104K25
	Q6,Q7	DTC124EUA	C208-C222,C224-C228		CKSRYB104K25
	D1,D11-D13,D16-D19	1SS355	C230,C231,C234,C235,C237		CKSRYB104K25
	D2,D21,D23-D25,D3	1SS355	C24,C255-C259,C26		CKSRYB104K25
	D10,D101-D104,D106-D116	DAN217	C260-C265,C28,C299-C308		CKSRYB104K25
	D14,D15,D20,D22	DAN217	C31,C317,C32,C324,C33		CKSRYB104K25
	D6-D8	DAN217	C338,C341,C348,C400-C403		CKSRYB104K25
	D51-D58	NNCD6.2MF	C406,C407,C410,C412,C413		CKSRYB104K25
	D105	SLI-343URCW(RST)	C416-C419,C42,C421-C429		CKSRYB104K25
	COILS AND FILTERS		C436,C437,C439,C44		CKSRYB104K25
	L7,L8	LFEA100J	C440-C442,C445,C448		CKSRYB104K25
	L10-L14 COMMON CHOKE COIL	PTL1017	C450,C451,C454,C455,C458		CKSRYB104K25
	L40 EMI FILTER	RTF1189	C460,C461,C463-C466,C468		CKSRYB104K25
	F101-F148 FERRITE BEAD	VTF1093	C470,C472-C477,C49,C5		CKSRYB104K25
			C50-C55,C58,C6,C60		CKSRYB104K25
			C69,C76,C80,C82-C84		CKSRYB104K25

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

C86,C9,C90,C93,C96
C98,C99
C467,C469
C61,C64
C130,C171

CKSRYB104K25
CKSRYB104K25
CKSRYB105K6R3
CKSRYB222K50
CKSRYB223K50

C347,C348
C309,C310
C343,C344
C307,C308
C341,C342

CCSRCH221J50
CCSRCH331J50
CEANP100M16
CEAT101M16
CEHANP100M35

C129,C170
C74,C78,C88
C62,C65,C75,C79,C89
C116,C133,C20,C232,C38
C45,C57

CKSRYB224K16
CKSRYB334K10
CKSRYB472K50
CKSRYB473K50
CKSRYB473K50

C383
C375-C378,C385,C388
C391
C387,C389
C361-C364

CEHAT100M50
CEHAT101M10
CEHAT220M50
CEHAT221M25
CEHAT330M25

C250-C254

CQMA221J50

C351-C356
C301,C302,C319-C321
C331,C332,C339,C340
C345,C346,C357-C360
C369-C374,C384,C386

CFTNA334J50
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25

RESISTORS

R161,R162,R172,R173
R179,R221
R308,R314,R321,R366,R369
R198,R355
R95

RD1/2VM122J
RD1/2VM221J
RD1/2VM820J
RN1/16SE1002D
RN1/16SE2402D

C395-C398
C379,C390
C381,C382
C311,C312
C313,C314

CKSRYB104K25
CKSRYB222K50
CKSRYB224K16
CQMA103J50
CQMA222J50

R11
R75
R163,R164,R174,R175
Other Resistors

RN1/16SE3601D
RN1/16SE5102D
RS2LMF270J
RS1/16S###J

C315,C316

CQMA331J50

OTHERS

CN1,CN2 1.25 FJ CONNECTOR
CN4 10P FFC CONNECTOR
CN202 FFC CONNECTOR 28P
CN201 FFC CONNECTOR 31P
X2 CRYSTAL RESONATOR (24MHz)

19R-1.25FJ
52045-1045
52492-2820
52492-3120
ASS7025

JA12-JA15 8P MINI DIN CONNECTOR
JA4,JA5,JA7 HEADPHONE JACK
X1 CRYSTAL RESONATOR
CN8 FFC CONNECTOR 40P
JA11 1P JACK (ORG)

DKN1035
DKN1393
DSS1153
HLEM40R-1
PKB1036

CN3 6P SIDE POST
CN6 KR CONNECTOR
KN1 WRAPPING TERMINAL

S6B-EH
S6B-PH-K-S
VNF1084

RESISTORS

R361,R362,R365,R366
R367-R370
R321,R322,R331,R332
R347-R350,R359,R360
R363,R364

RN1/16SC47R0D
RN1/16SE1000D
RN1/16SE1001D
RN1/16SE1001D
RN1/16SE1001D

R343,R344
R323,R324,R333,R334
R325,R326,R335,R336
R345,R346
R341,R342

RN1/16SE1002D
RN1/16SE1102D
RN1/16SE1502D
RN1/16SE1503D
RN1/16SE2202D

R353-R356
R313,R314
R301,R302
R311,R312
R309,R310

RN1/16SE2401D
RSK1/16S101J
RSK1/16S222J
RSK1/16S303J
RSK1/16S334J

R307,R308
Other Resistors
VR301

RSK1/16S681J
RS1/16S###J
DCS1082

**B CH1/CH2 INPUT ASSY
SEMICONDUCTORS**

IC301
IC302
IC304,IC305,IC307-IC310
IC311,IC312
D301-D304

AK5394AVS
NE5532AD
NJM4580MD
TC7SH08FUS1
RB706D-40

COILS AND FILTERS

F351-F354 FERRITE BEAD

VTF1093

SWITCHES AND RELAYS

S301

DSG1083

CAPACITORS

C305,C306,C317,C318
C329,C330,C333,C334
C322,C323,C325-C328
C335-C338,C365-C368
C303,C304

CCH1559
CCH1559
CCSRCH101J50
CCSRCH101J50
CCSRCH181J50

OTHERS

CN301 PLUG
JA301 4P PIN JACK
JA302,JA303 MIC. JACK
0 SHIELD CASE S
0 ROTARY SW STAY

CKS3158
DKB1073
DKN1248
DNH2589
DNH2646

**C CH3/CH4 INPUT ASSY
SEMICONDUCTORS**

IC601
IC602
IC604,IC605,IC607-IC610
IC611,IC612
D601-D604

AK5394AVS
NE5532AD
NJM4580MD
TC7SH08FUS1
RB706D-40

COILS AND FILTERS

F651-F654 FERRITE BEAD

VTF1093

SWITCHES AND RELAYS

S601

DSG1083

5	6	7	8	
Mark No.	Description	Part No.	Mark No.	Description
CAPACITORS			IC410,IC411	TC7SH08FUS1
C605,C606,C617,C618	CCH1559		Q401,Q402	2SC4081
C629,C630,C633,C634	CCH1559			
C622,C623,C625-C628	CCSRCH101J50	D401,D402		DAN217
C635-C638,C665-C668	CCSRCH101J50	D403-D406		RB706D-40
C603,C604	CCSRCH181J50		COILS AND FILTERS	
			F451-F454	FERRITE BEAD
C698,C691	CCSRCH221J50		L401,L402	CHIP BEAD
C609,C610	CCSRCH331J50			VTF1093
C643,C644	CEANP100M16			VTL1105
C607,C608	CEAT101M16		SWITCHES AND RELAYS	
C641,C642	CEHANP100M35	S401		DSG1083
			CAPACITORS	
C683	CEHAT100M50	C405,C406,C419,C420,		CCH1559
C675-C678,C685,C688	CEHAT101M10	C429,C430,C433,C434		CCH1559
C694	CEHAT220M50	C425-C428,C442,C443		CCSRCH101J50
C687,C689	CEHAT221M25	C463-C466,C496,C497		CCSRCH101J50
C661-C664	CEHAT330M25	C435,C436,C439,C440		CCSRCH102J50
C651-C656	CFTNA334J50	C403,C404		CCSRCH181J50
C601,C602,C619-C621	CKSRYB104K25	C498,C499		CCSRCH221J50
C631,C632,C639,C640	CKSRYB104K25	C441,C407,C408		CCSRCH331J50
C645,C646,C657-C660	CKSRYB104K25	C437,C438		CEANP100M16
C669-C674,C684,C686,C690	CKSRYB104K25	C409,C410		CEAT101M16
C695-C697	CKSRYB104K25	C419,C420,C433,C434,C446		CEHANP100M35
C679,C680	CKSRYB222K50	C448		CEHANP100M35
C681,C682	CKSRYB224K16	C484		CEHAT100M50
C611,C612	CQMA103J50	C473,C474,C476,C480,C481		CEHAT101M10
C613,C614	CQMA222J50	C487		CEHAT101M10
C615,C616	CQMA331J50	C490		CEHAT220M50
		C485,C486		CEHAT221M25
RESISTORS		C459-C462		CEHAT330M25
R661,R662,R665,R666	RN1/16SC47R0D	C449-C454		CFTNA334J50
R667-R670	RN1/16SE1000D	C411,C412,C421-C424		CKSRYB104K25
R621,R622,R631,R632	RN1/16SE1001D			
R647-R650,R659,R660	RN1/16SE1001D	C431,C432,C445,C447		CKSRYB104K25
R663,R664	RN1/16SE1001D	C455-C458,C467-C470		CKSRYB104K25
		C477-C479,C483,C488,C491		CKSRYB104K25
R643,R644	RN1/16SE1002D	C493-C495		CKSRYB104K25
R623,R624,R633,R634	RN1/16SE1102D	C471,C472		CKSRYB222K50
R625,R626,R635,R636	RN1/16SE1502D			
R645,R646	RN1/16SE1503D	C475,C482		CKSRYB224K16
R641,R642	RN1/16SE2202D	C413,C414		CQMA103J50
		C417,C418		CQMA222J50
R653-R656	RN1/16SE2401D	C415,C416		CQMA331J50
R613,R614	RSK1/16S101J		RESISTORS	
R601,R602	RSK1/16S222J	R457-R460		RN1/16SC47R0D
R611,R612	RSK1/16S303J	R433,R461-R464		RN1/16SE1000D
R609,R610	RSK1/16S334J	R437,R438,R443,R444		RN1/16SE1001D
		R453-R456,R483,R484		RN1/16SE1001D
R607,R608	RSK1/16S681J	R429,R439,R440		RN1/16SE1002D
Other Resistors	RS1/16S###J			
VR601	DCS1082			
		R485,R486		RN1/16SE1102D
OTHERS		R487,R488		RN1/16SE1502D
CN601 PLUG	CKS3158	R441,R442		RN1/16SE1503D
JA601 4P PIN JACK	DKB1073	R419,R420		RN1/16SE2200D
JA602,JA603 MIC. JACK	DKN1248	R435,R436		RN1/16SE2202D
0 SHIELD CASE S	DNH2589			
0 ROTARY SW STAY	DNH2646	R447-R450		RN1/16SE2401D
		R426		RN1/16SE3300D
		R432		RN1/16SE3901D
		R424,R427		RN1/16SE4701D
		R413,R414		RSK1/16S101J
		R401,R402		RSK1/16S222J
		R411,R412		RSK1/16S303J
		R409,R410		RSK1/16S334J
CH5/CH6 INPUT ASSY				
SEMICONDUCTORS				
IC409	AK5394AVS			
IC401	NE5532AD			
IC403-IC408	NJM4580MD			

Mark No. Description

R407,R408
Other Resistors
VR401

Part No.

RSK1/16S681J
RS1/16S###J
DCS1082

Mark No. Description**BOOTH/REC ASSY
SEMICONDUCTORS**

IC201,IC202
IC204,IC205,IC209-IC211
IC206,IC207
IC212,IC213
Q205-Q220

Part No.

AK4393VF
NJM4580MD
NJM5532DD
TC7SH08FUS1
2SC3326

OTHERS

CN401 PLUG
JA402 HEADPHONE JACK
JA401 4P PIN JACK
0 SHIELD CASE S
0 ROTARY SW STAY

CKS3159
DKB1065
DKB1073
DNH2589
DNH2646

**SEND/RETURN ASSY
SEMICONDUCTORS**

IC501
IC503
IC507,IC508
IC502,IC504-IC506
Q501-Q504

AK4393VF
AK5385AVS
NJM2100M
NJM4580MD
2SC3326

COILS AND FILTERS

F551-F554 FERRITE BEAD

VTF1093

CAPACITORS

C518,C521,C541-C544
C507,C508,C513,C514
C515,C516
C563,C564,C581,C582
C505,C506,C517,C525,C549

CCSRCH101J50
CCSRCH121J50
CCSRCH821J50
CEANP100M16
CEAT100M50

C555,C560,C562
C537-C540
C523
C565,C566
C528,C553,C595

CEAT100M50
CEAT220M25
CEAT221M10
CEAT221M25
CEAT470M16

C529,C530
C526
C511,C512,C519,C520,C524
C531-C536,C545,C546,C552
C554,C556,C559,C561,C567

CKSRYB102K50
CKSRYB103K50
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25

C596-C599
C501,C502,C547,C548
C558
C503,C504
C522,C550

CKSRYB104K25
CKSRYB222K50
CKSRYB224K16
CKSRYB392K50
CKSRYB682K50

RESISTORS

R565,R566,R569,R570
R598,R599
R563,R564,R567,R568
R515,R516,R525,R526
R545,R546

RN1/16SC47R0D
RN1/16SE1000D
RN1/16SE1001D
RN1/16SE1002D
RN1/16SE1202D

R501,R502
R549-R552
R557-R560
R507,R508
R505,R506

RN1/16SE2200D
RN1/16SE2202D
RN1/16SE2401D
RN1/16SE2700D
RN1/16SE3300D

R517-R524
Other Resistors

RN1/16SE3901D
RS1/16S###J

OTHERS

CN501 PLUG
JA503 HEADPHONE JACK
JA501,JA502,JA504 MIC. JACK

CKS3159
DKB1065
DKN1248

COILS AND FILTERS

F201-F214 FERRITE BEAD

VTF1093

SWITCHES AND RELAYS

S201

DSG1084

CAPACITORS

C265-C272
C212-C215,C231-C234
C229,C230
C218,C219,C237,C238
C245-C248,C253-C256

CCSRCH151J50
CCSRCH271J50
CCSRCH821J50
CEHANP100M35
CEHANP100M35

C277-C280

CEHANP470M25

C202,C205,C222,C226
C241,C242
C285,C286
C204,C225

CEHAT100M50
CEHAT101M10
CEHAT101M25
CEHAT221M10

C201,C224,C273-C276
C203,C206-C209,C216,C217
C223,C227,C228,C235,C236
C239,C240,C243,C244
C251,C252,C261,C263

CKSRYB103K50
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25

C281-C284,C290
C210,C211
C401-C404
C405-C408
C249,C250,C257,C258

CKSRYB104K25
CKSRYB152K50
CQMA103J50
CQMA222J50
CQMA392J50

C389-C396

CQMA682J50

RESISTORS

R321-R324
R313-R316
R287-R290,R293-R296
R249,R250
R193,R196

RD1/2VM101J
RN1/16SC68R0D
RN1/16SE1002D
RN1/16SE1802D
RN1/16SE2002D

R291,R292,R297-R300
R325,R326
R253,R254,R263,R264
R267,R268,R277,R278
R301-R304

RN1/16SE2202D
RN1/16SE2202D
RN1/16SE2700D
RN1/16SE2700D
RN1/16SE2700D

R209-R212,R215-R218
R233-R244
R192,R197
R257,R258,R269,R270
R247,R248

RN1/16SE3901D
RN1/16SE3901D
RN1/16SE3902D
RN1/16SE4300D
RN1/16SE6201D

R213,R214,R219,R220
Other Resistors

RN1/16SE8201D
RS1/16S###J

OTHERS

CN201,CN202 PLUG
JA203 4P PIN JACK
JA201,JA202 HEADPHONE JACK
0 ROTARY SW STAY

CKS3158
DKB1073
DKN1281
DNH2646

5		6		7		8
Mark No.	Description	Part No.		Mark No.	Description	Part No.
G	MASTER ASSY					
	SEMICONDUCTORS					
	IC331	AK4393VF		C609		CCSRCH331J50
	IC333,IC334	NJM4580MD		C611		CEALNP220M16
	IC335,IC336	NJM5532DD		C603,C604,C612,C616		CEHAS100M16
	IC332	PGA2310UA				
	IC337,IC338	TC7SH08FUS1		C814		CFTNA334J50
				C610,C613		CKSRYB104K25
	Q331-Q338	2SC3326				
	D331-D338	1SS355				
			RESISTORS			
			R601,R602		RN1/16SE1000D	
			R611		RN1/16SE1002D	
			R615		RN1/16SE2202D	
			R608		RN1/16SE3300D	
			R614		RN1/16SE3901D	
			R609,R610		RN1/16SE4701D	
			Other Resistors		RS1/16S###J	
			OTHERS			
			JA601 CANON CONNECTOR		DKB1068	
			CN602 5P HEADER		DKN1389	
			CN601 KR CONNECTOR		S5B-PH-K-S	
			I	MIC VR ASSY		
			RESISTORS			
			VR601		DCS1083	
			OTHERS			
			CN901 B TO B CONNECTOR 5P		DKP3681	
			J	HP ASSY		
			COILS AND FILTERS			
			F801-F803 FERRITE BEAD		VTF1093	
			CAPACITORS			
			C815		CFTLA103J50	
			C806		CFTLA474J50	
			C809,C810		CKSRYB104K25	
			RESISTORS			
			All Resistors		RS1/16S###J	
			OTHERS			
			JA10 HEADPHONE JACK		DKN1281	
			CN9 KR CONNECTOR		S4B-PH-K-S	
			K	DIGITAL SUB ASSY		
			SEMICONDUCTORS			
			IC701,IC705-IC707		CS8420-CSZD1	
			IC721		TC74VHCU04FT	
			IC711,IC722		TC7SH08FUS1	
			IC702,IC708,IC716		TC7WH157FU	
			IC710,IC719,IC720		TC7WU04FU	
			Q704-Q709		DTC124EUA	
			D701-D703		1SS355	
			D706-D708		DAN217	
			COILS AND FILTERS			
			L707 PULSE TRANS.		PTL1003	
			L751-L753 COMMON CHOKE COIL		PTL1017	
			F701-F726 FERRITE BEAD		VTF1093	
					</	

Mark No. Description**Part No.****Mark No. Description****Part No.****SWITCHES AND RELAYS**

S701

VSH1009

OTHERS

CN907 B TO B CONNECTOR 5P

DKP3681

A CAPACITORSC771,C777,C785
C769,C775,C783
C772,C778,C787
C722,C729,C737,C745
C761CCSRCH220J50
CCSRCH221J50
CCSRCH470J50
CEAT100M50
CEAT101M16C759
C703,C705-C708,C710-C713
C715-C718,C721,C727,C732
C740,C748,C770,C776,C780
C784,C788-C792CEAT470M16
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50

B

C701,C702,C719,C720,C723
C726,C728,C730,C731
C735,C736,C738,C739
C743,C744,C746,C747
C751-C755,C760,C762,C767CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25

C

C773,C779,C786,C796-C798
C725
C724
C733,C741,C749
C734,C742,C750CKSRYB104K25
CKSRYB223K50
CKSRYB224K16
CKSRYB334K10
CKSRYB472K50

C

C704,C709,C714
C768,C774,C782CKSRYB473K50
CQMA221J50**RESISTORS**R750,R755,R790
Other ResistorsRD1/2VM820J
RS1/16S###J**OTHERS**JA704-JA706 HEADPHONE JACK DKN1393
JA701-JA703,JA707 1P JACK (ORG) PKB1036
CN701,CN702 VKN1775
19P 1.25FJ CONNECTOR
KN1 WRAPPING TERMINAL VNF1084

D

**L VISUAL LINK ASSY
SEMICONDUCTORS**IC801
IC802
Q801
D801,D802,D804
D803TC74HCT04AF
TC74HCT08AF
DTC124EUA
DAN217
NNCD6.2MF**CAPACITORS**C803
C801,C802CKSRYB103K50
CKSRYB104K25

E

RESISTORSR802,R803
Other ResistorsRD1/2VM221J
RS1/16S###J**OTHERS**CN801 10P FFC CONNECTOR 52044-1045
JA801 8P MINI DIN CONNECTOR DKN1035
JA802 DIN CONNECTOR 5P DKN1188

F

**M MASTER FADER ASSY
RESISTORS**

VR201

DCV1018

**O BUS2 ASSY
SEMICONDUCTORS**IC301,IC302,IC304-IC306
Q301TC7SH08FUS1
2SC1740S

5		6		7		8
Mark No.	Description	Part No.		Mark No.	Description	Part No.
Q302		2SC2458				
COILS AND FILTERS				Q PANEL2 ASSY		
F301-F305	FERRITE BEAD	VTF1093		SEMICONDUCTORS		
CAPACITORS				IC4504		TC74HC4051AF
C303,C323		CEAT221M10		Q4513,Q4514,Q4517,Q4518		2SB1188
C301,C304		CEAT221M25		Q4511,Q4512,Q4515,Q4516		DTC143EUA
C326		CEAT470M16		D4616-D4620		1SS355
C305		CEAT471M10		D4560,D4561,D4576,D4577		SLI-343URCW(RST)
C324,C325		CFTNA473J50				
C306-C310,C312-C318		CKSRYB104K25		D4579,D4580		SLI-343URCW(RST)
C320-C322,C327-C339		CKSRYB104K25		D4562-D4565,D4575,D4578		SLI-343YCW(RST)
				D4581-D4584		SLI-343YCW(RST)
				D4566-D4574,D4585-D4593		TLGE68TG(NP)
RESISTORS				SWITCHES AND RELAYS		
All Resistors		RS1/16S###J		S4526,S4527		DSG1079
OTHERS				S4525		DSH1057
CN302,CN303	1.25FJ CONNECTOR	19R-1.25FJ		CAPACITORS		
CN306	10P FFC CONNECTOR	52045-1045		C4518-C4528		CKSRYB104K25
CN301	10P TOP POST	B10B-EH		RESISTORS		
CN311	CONNECTOR	CKS2645		VR4513,VR4514,VR4516,VR4518		DCS1065
CN304,CN308-CN310	CONNECTOR	CKS2648		VR4515,VR4517		DCS1086
CN305,CN307	CONNECTOR	CKS2649		Other Resistors		RS1/16S###J
KN3	WRAPPING TERMINAL	VNF1084		OTHERS		
P PANEL1 ASSY				CN4507	7P FFC CONNECTOR	52045-0745
SEMICONDUCTORS				CN4508	FFC CONNECTOR 13P	52492-1320
IC4501-IC4503		TC74HC4051AF		CN4509	FFC CONNECTOR 28P	52492-2820
Q4502,Q4505,Q4506,Q4508,Q4510		2SB1188		CN4510	5P HEADER	DKN1366
Q4501,Q4503,Q4504,Q4507,Q4509		DTC143EUA		R ISOLATOR ASSY		
D4594-D4615,D4621-D4624		1SS355		RESISTORS		
D4547		NSPW315BS-0359		VR4013-VR4015		DCS1084
D4506,D4507,D4525,D4526,D4540		SLI-343URCW(RST)		OTHERS		
D4502-D4505,D4508-D4511		SLI-343YCW(RST)		CN4014	7P FFC CONNECTOR	52045-0745
D4522-D4524,D4527-D4530		SLI-343YCW(RST)		S PANEL3 ASSY		
D4541-D4546,D4552-D4559		SLI-343YCW(RST)		SEMICONDUCTORS		
D4548-D4551		SLR-343BBT(HJKL)		IC4008,IC4009,IC4011		TC74HC238AF
D4501,D4512-D4521,D4531-D4539		TLGE68TG(NP)		IC4001,IC4002,IC4006		TC74HC273AF
SWITCHES AND RELAYS				IC4005,IC4007		TC74HC4051AF
S4502,S4504,S4508,S4509		DSG1079		IC4003,IC4004		TD62083APG
S4512,S4513		DSG1079		Q4002,Q4004,Q4006,Q4009,Q4010		2SB1188
S4507,S4511		DSG1085				
S4501,S4503		DSH1058		Q4012		2SB1188
S4505,S4510		DSH1060		Q4001,Q4003,Q4005,Q4007,Q4008		DTC143EUA
S4506		DSK1026		Q4011,Q4013-Q4020		DTC143EUA
S4514-S4524		VSG1024		D4078-D4095		1SS355
CAPACITORS				D4005,D4006,D4025,D4026		SLI-343URCW(RST)
C4501-C4517		CKSRYB104K25		D4044,D4045,D4063,D4064		SLI-343URCW(RST)
RESISTORS				D4002-D4004,D4007-D4010		SLI-343YCW(RST)
VR4501-VR4508		DCS1065		D4022-D4024,D4027-D4030		SLI-343YCW(RST)
VR4509-VR4512		DCS1086		D4041-D4043,D4046-D4049		SLI-343YCW(RST)
Other Resistors		RS1/16S###J		D4060-D4062,D4065-D4068		SLI-343YCW(RST)
OTHERS				D4001,D4011-D4021,D4031-D4040		TLGE68TG(NP)
CN4503	FFC CONNECTOR 20P	52492-2020		D4050-D4059,D4069-D4077		TLGE68TG(NP)
CN4501	FFC CONNECTOR 28P	52492-2820		SWITCHES AND RELAYS		
CN4505,CN4506		52492-3120		S4001-S4004		DSG1079
	FFCCONNECTOR 31P					
CN4504	KR CONNECTOR	B4B-PH-K-S				
CN4502	KR CONNECTOR	B4B-PH-K-Y				

Mark No. Description Part No.

S4005-S4008

DSH1058

Mark No. Description Part No.

CN902 KR CONNECTOR

S4B-PH-K-S

A CAPACITORS

C4001,C4027
C4002-C4026CEJQ221M6R3
CKSRYB104K25

X CH2/CH4/CH6 FADER ASSY RESISTORS

VR208

DCV1018

OTHERS

CN906 KR CONNECTOR

S4B-PH-K-S

RESISTORS
VR4001-VR4012
Other Resistors

DCS1065
RS1/16S###J

B OTHERS

CN4004 FFC CONNECTOR 10P 52492-1020
CN4001 FFFC CONNECTOR 13P 52492-1320
CN4010 FFC CONNECTOR 20P 52492-2020
CN4002 FFC CONNECTOR 28P 52492-2820
CN4009,CN4012,CN4013 52492-3120
FFC CONNECTOR 31P

CN4006,CN4011 KR CONNECTOR B4B-PH-K-S
CN4007 KR CONNECTOR S3B-PH-K-S
CN4003 KR CONNECTOR S4B-PH-K-S
CN4005, CN4008 KR CONNECTOR S4B-PH-K-Y

Y CH2/CH4/CH6 FADER ASSY RESISTORS

VR204

DCV1018

OTHERS

CN904 KR CONNECTOR

S4B-PH-K-S

C POWER ASSY

OTHERS

0 SCREW BBZ30P060FZK
0 SCREW BBZ30P080FTC
0 SCREW PMH30P080FTC

Z CROSS FADER ASSY RESISTORS

VR202

DCV1016

OTHERS

CN908 KR CONNECTOR

S3B-PH-K-S

AA ACIN ASSY COILS AND FILTERS

⚠ L1,L2 LINE FILTER

DTL1131

SWITCHES AND RELAYS

⚠ S2

DSA1031

CAPACITORS

⚠ C2,C3

ACE7045

⚠ C1 (10000pF/AC250V)

ACG7033

OTHERS

⚠ CN1 AMP U-P CONNECTOR 2P

2-178496-4

⚠ H1,H2 FUSE CLIP

AKR1004

⚠ CN2 4P-VH CONNECTOR

B4P7-VH

0 PCB BINDER

VEF1040

0 SCREW PLATE

VNE1948

AB POWER ASSY SEMICONDUCTORS

⚠ IC121 (250mA)

AEK7002

⚠ IC127,IC128 (315mA)

AEK7003

⚠ IC111,IC122-IC125 (750mA)

AEK7007

⚠ IC110 (2A)

AEK7013

⚠ IC112,IC113 (2.5A)

AEK7014

⚠ IC117 (5A)

AEK7019

⚠ IC118-IC120 (7A)

AEK7021

⚠ IC106

BA05T

⚠ IC104,IC105,IC116

BD9702T-V5

⚠ IC114

NJM2360AD

⚠ IC126

NJM78L05A

Q121

2SC2458

RESISTORS
VR4001-VR4012
Other Resistors

OTHERS
CN901 KR CONNECTOR S4B-PH-K-S

**T CH1/CH3/CH5 FADER ASSY
RESISTORS**
VR206 DCV1018

OTHERS
CN901 KR CONNECTOR S4B-PH-K-S

**U CH1/CH3/CH5 FADER ASSY
RESISTORS**
VR203 DCV1018

OTHERS
CN903 KR CONNECTOR S4B-PH-K-S

**V CH1/CH3/CH5 FADER ASSY
RESISTORS**
VR207 DCV1018

OTHERS
CN905 KR CONNECTOR S4B-PH-K-S

**W CH2/CH4/CH6 FADER ASSY
RESISTORS**
VR205 DCV1018

OTHERS

Mark No.	Description	Part No.
D114		1SS355
⚠ D106,D111,D116		RB060L-40
⚠ D112		RB160L-40
⚠ D117-D120		RB160L-60
⚠ D104,D105,D115,D124		S5566G(TPB2)

COILS AND FILTERS

L101,L105	RADIAL READ INDUCTOR DTL1120
L102,L104	RADIAL READ INDUCTOR DTL1121

CAPACITORS

C138	CCSRCH221J50
C144,C145	CEAT101M16
C126,C137	CEAT471M25
C117,C124,C125	CEAT472M10
C121	CEHANP4R7M50

C130	CEHAT101M35
C127	CEHAT102M10
C131,C132	CEHAT102M25
C128	CEHAT222M10
C120,C139,C147	CEHAT471M16

C133,C134	CEHAT471M25
C118,C119,C146	CKSRYB104K25
C101-C107	CKSRYB473K50
C116,C135,C136 (4700/35)	DCH1211
C115 (3300/25)	DCH1235

RESISTORS

R116	RN1/16SE1001D
R126	RN1/16SE1601D
R102,R112	RN1/16SE2701D
R125	RN1/16SE3901D
R103	RN1/16SE4300D

R117	RN1/16SE4701D
R113	RN1/16SE6200D
Other Resistors	RS1/16S###J

OTHERS

CN104,CN105	10P TOP POST	B10B-EH
CN102	4P TOP POST	B4B-EH
CN103	6P TOP POST	B6B-EH
CN101	7P-VH CONNECTOR	B7P-VH
CN107	9P TOP POST	B9B-EH

0	HEATSINK	DNG1094
0	PCB BINDER	VEF1040
KN1	WRAPPING TERMINAL	VNF1084

AC REG1 ASSY SEMICONDUCTORS

⚠ D101,D102	D4SBS4-7100
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OTHERS

0	HEATSINK A	DNG1092
J108	BOARD IN CONNECTOR ASSY	PF08NN-S12

AD REG2 ASSY SEMICONDUCTORS

⚠ IC103,IC115	BA05T
---------------	-------

Mark No.	Description	Part No.
⚠ IC101		BA15T
⚠ IC102		NJM7915FA
CAPACITORS		
C109-C114,C142,C143		CKSRYB104K25

RESISTORS

All Resistors	RS1/16S###J
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OTHERS

0	HEATSINK B	DNG1093
J109	BOARD IN CONNECTOR ASSY	PF09EN-S07

6. ADJUSTMENT

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

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TEST MODE

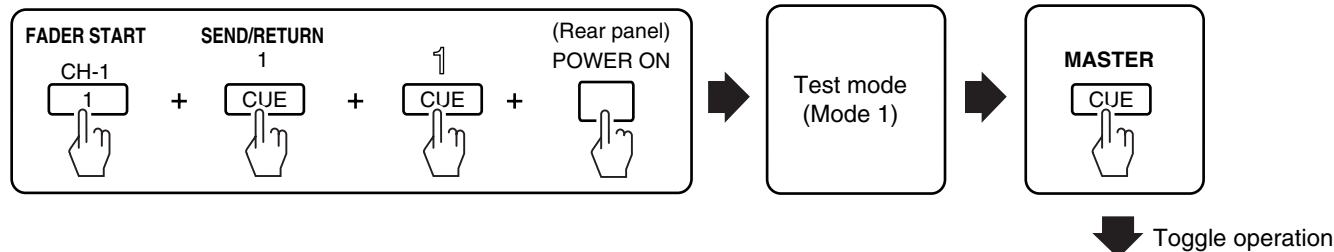
1. Description of test mode

Two test modes are provided in this unit.

- ① Test mode
- ② Version up mode

2. Test Mode

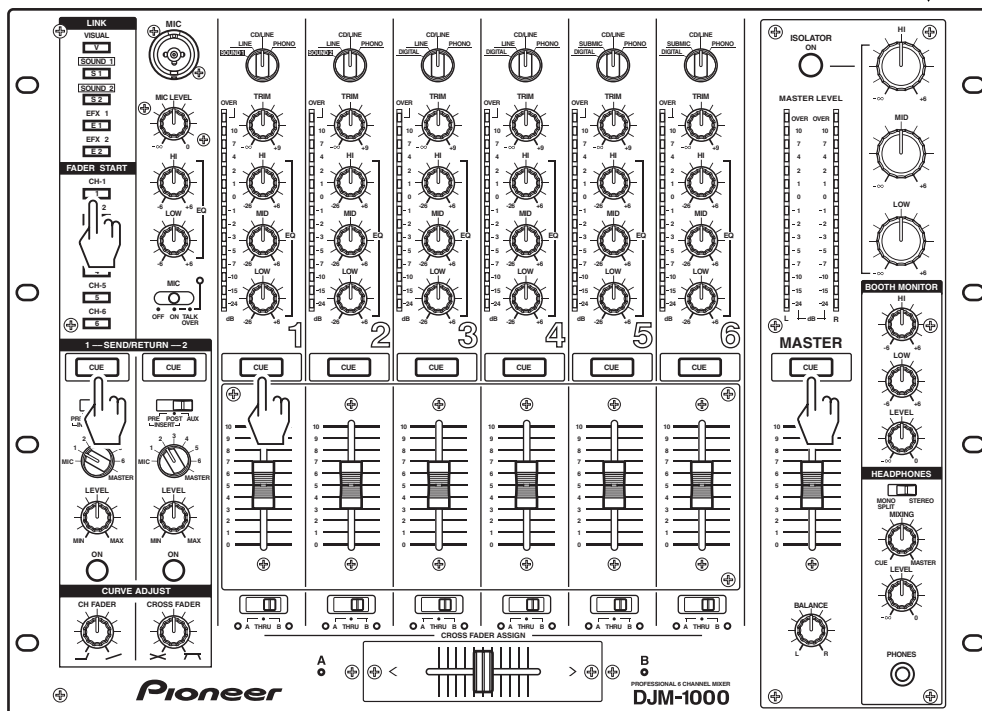
Test Mode : ON



Test Mode : CANCEL

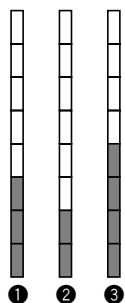


POWER SW



① Mode 1: Confirmation of software version

The present software version is displayed as the number of light of LED indicator.



ex) Display of CPU version 3.24

CPU version

- ① CH1 LED: the integral part of the CPU version number.
- ② CH2 LED: 1 place of decimals of the CPU version number.
- ③ CH3 LED: 2 places of decimals of the CPU version number.

DSP program version

- ④ CH4 LED: the integral part of the DSP program version number.
- ⑤ CH5 LED: 1 place of decimals of the DSP program version number.
- ⑥ CH6 LED: 2 places of decimals of the DSP program version number.

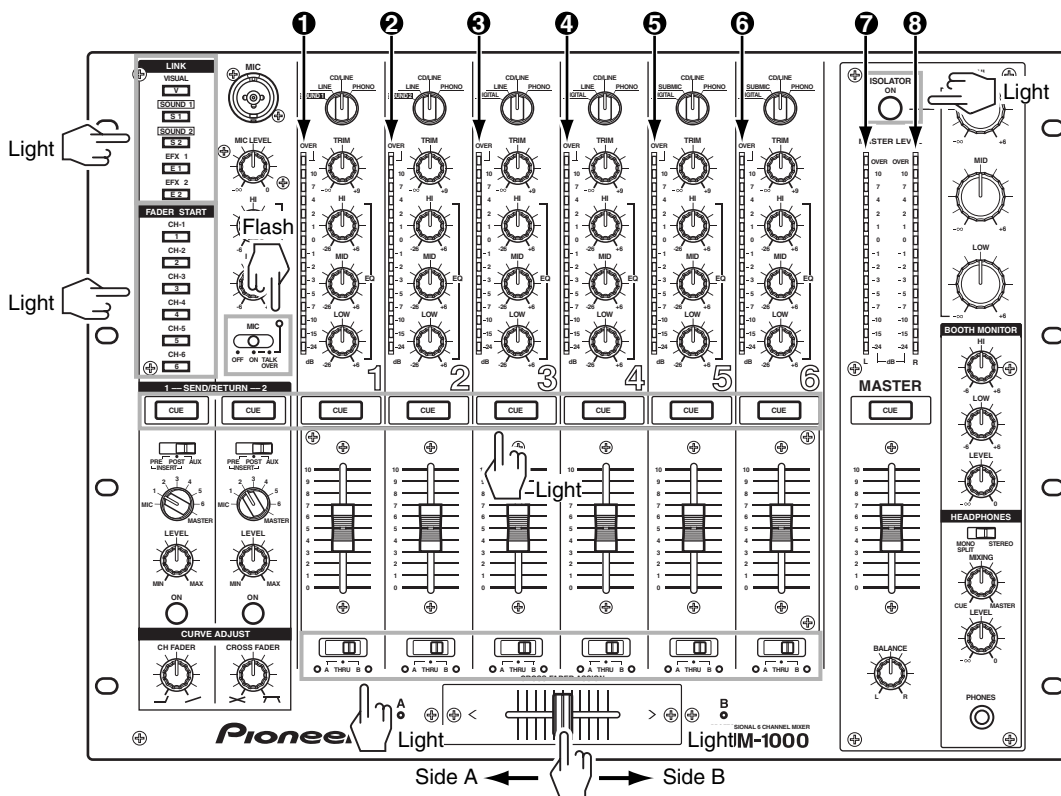
DSP data version

- ⑦ MASTER L LED : the integral part of the DSP data version number.
- ⑧ MASTER R LED : 1 place of decimals of the DSP data version number.

② Mode 2: SW input test

When LINK (5 pcs), FADER START (6 pcs), CUE (8 pcs, except for MASTER), SEND/RETURN (2 pcs), CROSS FADER ASSIGN (12 pcs), ISOLATOR, MIC SELECT buttons are pressed, corresponding LEDs Light.
(Only MIC TALK OVER: LED Flash.)

When the CROSS FADER knob is slid to the end of side A, the LED on side A lights, and when it is slid to the end of side B, the LED on side B lights.



③ Mode 3: Volume test

In this test, the volume of the A/D input is displayed.

When this test is started, LED of the selected button of the display line lights. Select buttons of line are as follows.

A

Select buttons of line

- ⑨ VISUAL : DSP data
- ⑩ SOUND1 : CH1-6, TRIM, HI, MID, LOW volume
- ⑪ SOUND2 : Volumes except above

B

⑨ VISUAL

- ① CH1 LED indicator: displays CH1 Channel Fader
- ② CH2 LED indicator: displays CH2 Channel Fader
- ③ CH3 LED indicator: displays CH3 Channel Fader
- ④ CH4 LED indicator: displays CH4 Channel Fader
- ⑤ CH5 LED indicator: displays CH5 Channel Fader
- ⑥ CH6 LED indicator: displays CH6 Channel Fader
- ⑦ MASTER L LED indicator: displays Cross Fader
- ⑧ MASTER R LED indicator: displays MASTER Fader

Note:

If the CUE key of SEND RETURN 1 is pressed, the key goes dark, and the mode for engineers is entered. Because this mode is not used for servicing, if you accidentally press the CUE key, press it again to return to Test mode.

⑩ SOUND1

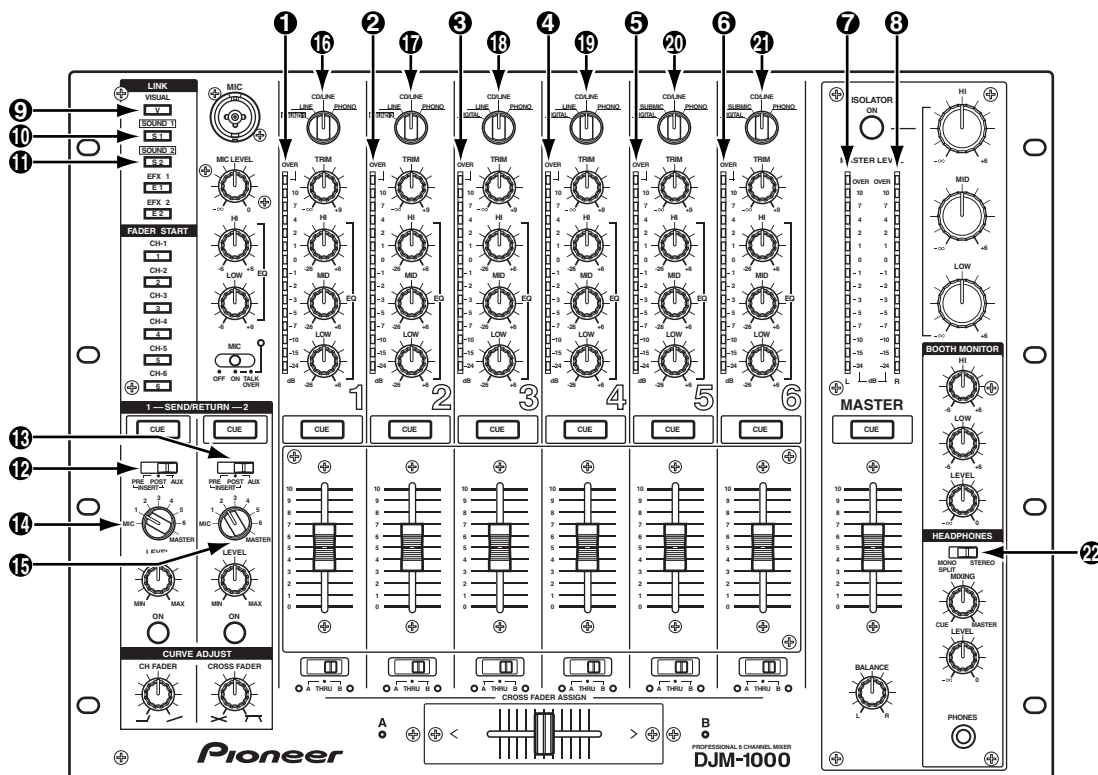
- ① CH1 LED indicator: TRIM data of CH1 LOW, MID, HI are displayed by 3 dots respectively.
- ② CH2 LED indicator: TRIM data of CH2 LOW, MID, HI are displayed by 3 dots respectively.
- ③ CH3 LED indicator: TRIM data of CH3 LOW, MID, HI are displayed by 3 dots respectively.
- ④ CH4 LED indicator: TRIM data of CH4 LOW, MID, HI are displayed by 3 dots respectively.
- ⑤ CH5 LED indicator: TRIM data of CH5 LOW, MID, HI are displayed by 3 dots respectively.
- ⑥ CH6 LED indicator: TRIM data of CH6 LOW, MID, HI are displayed by 3 dots respectively.
- ⑦ MASTER L LED indicator: MASTER data of LOW, MID, HI are displayed by 3 dots respectively.

C

⑪ SOUND2

- ① CH1 LED indicator: Data of MIC LOW and HI are displayed by 3 dots respectively.
- ② CH2 LED indicator: SEND LEVEL 1, 2 are displayed by 3 dots respectively.
- ③ CH3 LED indicator: CURVE ADJ CH, CROSS data are displayed by 3 dots respectively.
- ④ CH4 LED indicator: BOOTH LEVEL HI, LOW, LVL data are displayed by 3 dots respectively.
- ⑤ CH5 LED indicator: PHONES MIXI, LEVEL data are displayed by 3 dots respectively.
- ⑥ CH6 LED indicator: MASTER BALANCE data is displayed by 3 dots.

D



E

F

④ Mode 4: SELECT SW operating test

Input of select SW can be confirmed on LED indicator.

⑫ SEND/RETURN 1 SW:

PRE : MASTER L bit 1: ON, bit 2 and 3: OFF.
 POST : MASTER L bit 2: ON, bit 1 and 3: OFF.
 MIX : MASTER L bit 3: ON, bit 1 and 2: OFF.
 Error : Except above: Bit 1 to 3: OFF.

⑬ SEND/RETURN 2 SW:

PRE : MASTER R bit 1: ON, bit 2 and 3: OFF.
 POST : MASTER R bit 2: ON, bit 1 and 3: OFF.
 MIX : MASTER R bit 3: ON, bit 1 and 2: OFF.
 Error : Except above: Bit 1 to 3: OFF.

⑭ CH Assign Selector 1 SW:

MIC : MASTER L bit 8: ON, bit 9 to 15: OFF.
 CH1 : MASTER L bit 9: ON, bit 8, 10 to 15: OFF.
 CH2 : MASTER L bit 10: ON, bit 8, 9, 11 to 15: OFF.
 CH3 : MASTER L bit 11: ON, bit 8 to 10, 12 to 15: OFF.
 CH4 : MASTER L bit 12: ON, bit 8 to 11, 13 to 15: OFF.
 CH5 : MASTER L bit 13: ON, bit 8 to 12, 14, 15: OFF.
 CH6 : MASTER L bit 14: ON, bit 8 to 13, 15: OFF.
 MASTER : MASTER L bit 15: ON, bit 8 to 14: OFF.

⑮ CH Assign Selector 2 SW:

MIC : MASTER R bit 8: ON, bit 9 to 15: OFF.
 CH1 : MASTER R bit 9: ON, bit 8, 10 to 15: OFF.
 CH2 : MASTER R bit 10: ON, bit 8, 9, 11 to 15: OFF.
 CH3 : MASTER R bit 11: ON, bit 8 to 10, 12 to 15: OFF.
 CH4 : MASTER R bit 12: ON, bit 8 to 11, 13 to 15: OFF.
 CH5 : MASTER R bit 13: ON, bit 8 to 12, 14, 15: OFF.
 CH6 : MASTER R bit 14: ON, bit 8 to 13, 15: OFF.
 MASTER : MASTER R bit 15: ON, bit 8 to 14: OFF.

⑯ CH1 Input Select SW:

DIGITAL : CH1 OVER bit (bit 15): ON.
 Except above : CH1 OVER bit (bit 15): OFF.

⑰ CH2 Input Select SW:

DIGITAL : CH2 OVER bit (bit 15): ON.
 Except above : CH2 OVER bit (bit 15): OFF.

⑱ CH3 Input Select SW:

DIGITAL : CH3 OVER bit (bit 15): ON.
 Except above : CH3 OVER bit (bit 15): OFF.

⑲ CH4 Input Select SW:

DIGITAL : CH4 OVER bit (bit 15): ON.
 Except above : CH4 OVER bit (bit 15): OFF.

⑳ CH5 Input Select SW:

DIGITAL : CH5 OVER bit (bit 15): ON.
 Except above : CH5 OVER bit (bit 15): OFF.

㉑ CH6 Input Select SW:

DIGITAL : CH6 OVER bit (bit 15): ON.
 Except above : CH6 OVER bit (bit 15): OFF.

㉒ HEADPHONE Select SW:

STEREO : MASTER R bit 6: ON, L bit: OFF.
 MONO : MASTER L bit 6: ON, R bit: OFF.

⑤ Mode 5: All LED ON Mode

All LED indicators can be light.

3. Version up mode

Caution : version up error

When the error occurs, wait for a while without turning off the power. (Do not turned off the power.)

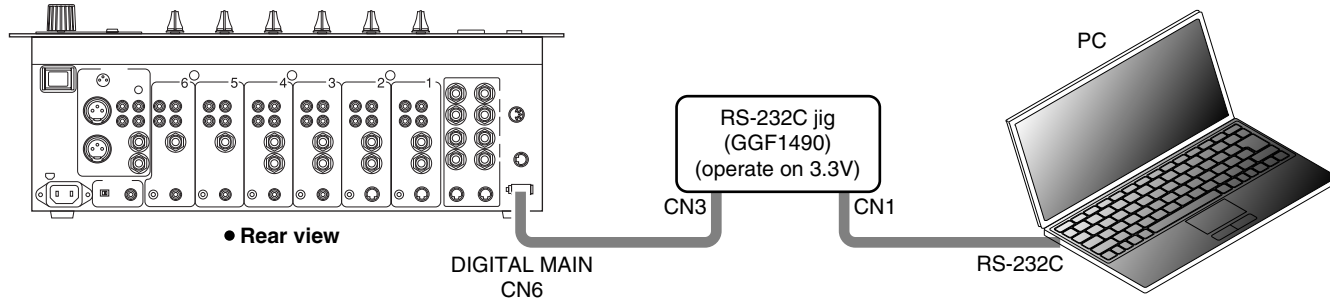
It takes about two minutes to return.

Operate "selection of the upgrade mode" again after the return.

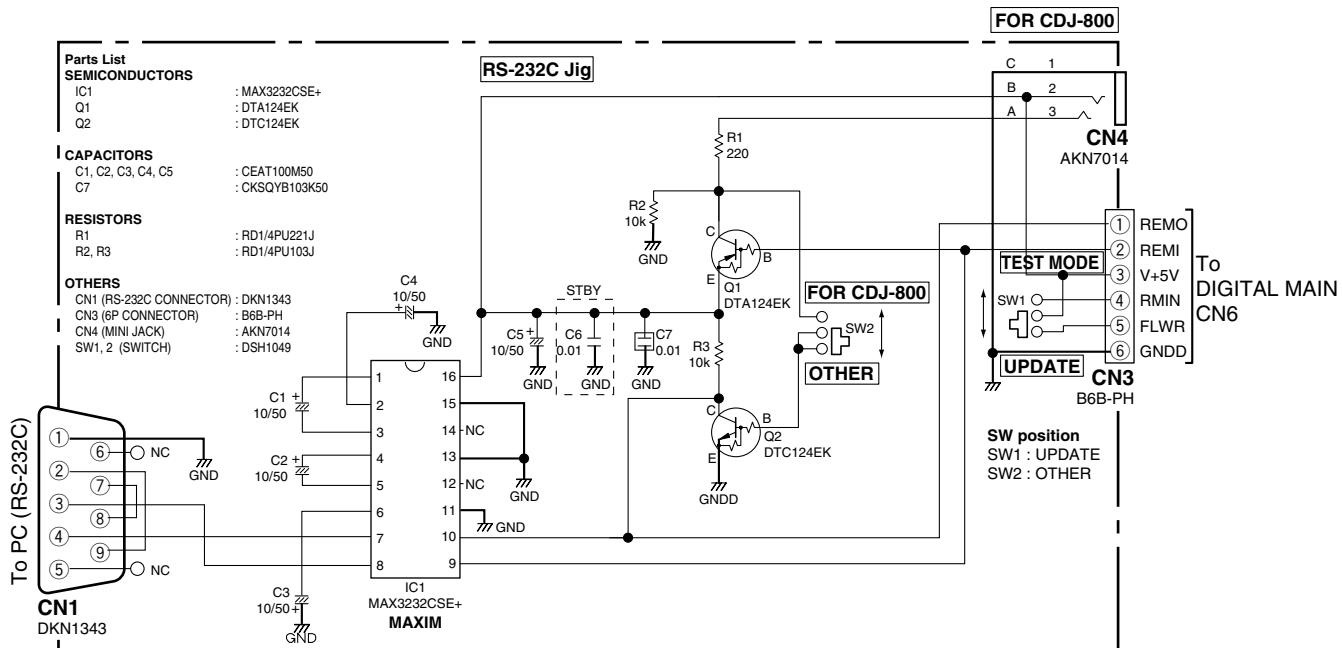
This mode carry out the up-date of CPU program, DSP program, and DSP data.

Before starting this test mode, PC and JIG (special device for up-date) must be connected to DJM-1000, and application software (HYPER TERMINAL of WINDOWS) must be started.

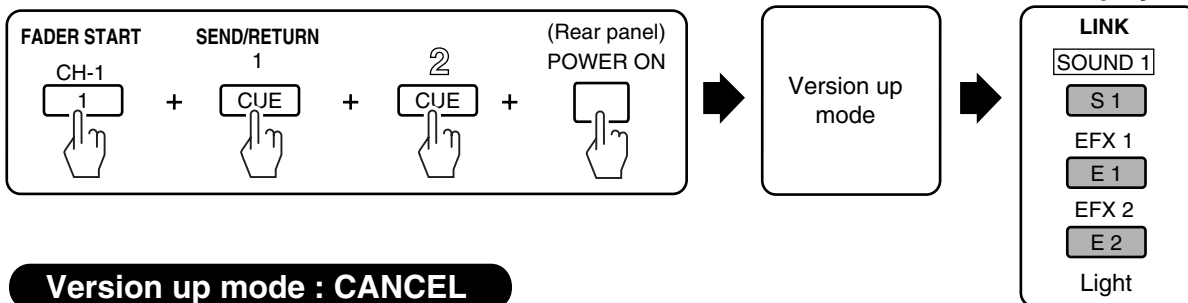
Connections



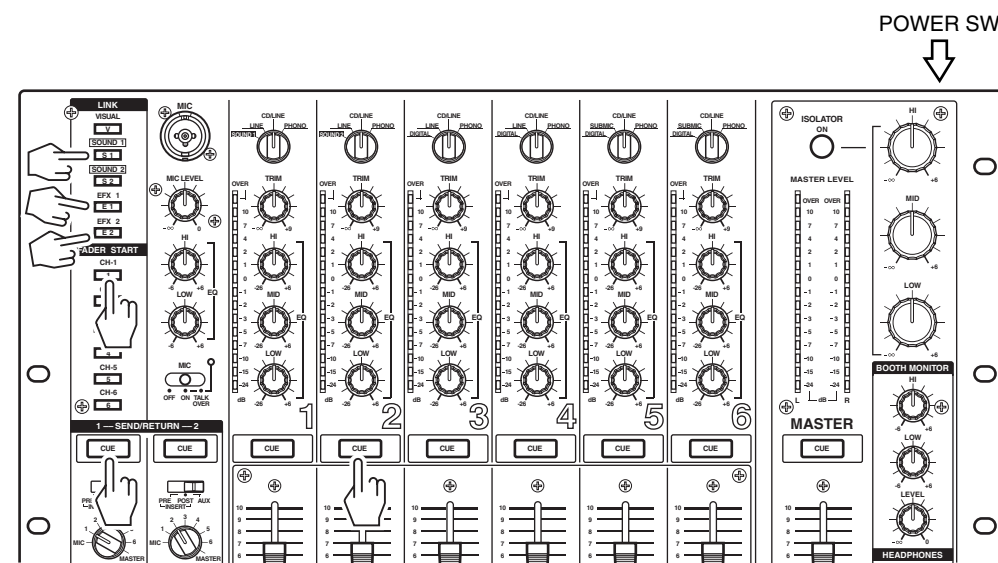
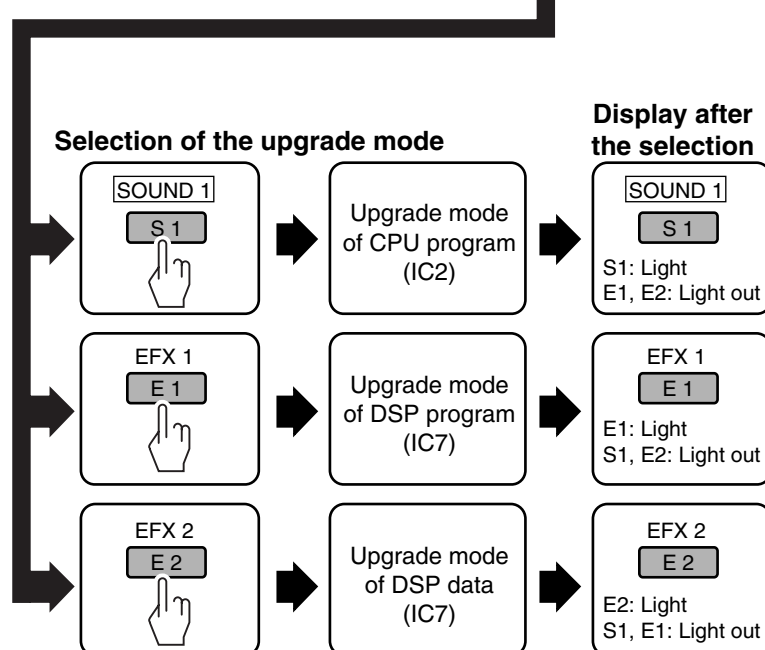
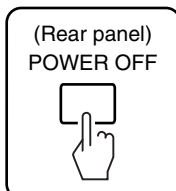
RS-232C jig (GGF1490) Schematic diagram



Version up mode : ON



Version up mode : CANCEL



① About transfer application software

• OS and application

The software of this model can be written by using OS of WINDOWS.
Using application software is HYPER TERMINAL.

• Application start and setting

Application can be set using PC: [start]→[program]→[accessory]→[communication]→[HYPER TERMINAL].

1. AICON is decided inputting the name (ex. "DJM-1000 UPDATE")

2. Connection method: Selection of COM port. (Set the port which rewriting jig is connected.)

3. Port setting

Bit/sec. : 38400
Data Bit : 8
Parity : NO
Stop Bit : 1
Flow control : NO

Note: From the next time, application is started using by [HYPER TERMINAL]→[Name here].

② Display and operation of the application

• Display

When the update program is selected, following comment is displayed.

CPU program : "Please Motorola S Format Hex File: Download : XMODEM CheckSum"

DSP program : "Please Trans Binary DSP Program File : XMODEM CheckSum"

DSP data : "Please Trans Binary DSP Data File : XMODEM CheckSum"

• File selection

Select the update file.

Select the file name using [transfer]→[transmission of the file] of hyper terminal.

CPU program file : djmcfxxxx.mot

DSP program file : djmdpxxxx.bin

DSP data file : djmddxxxx.bin

• Transmission of the file

Confirm the protocol is Xmodem when the file is selected. Push the [transmission], and then transmission begins.

• Display of the set during the file is transferred

CPU program : "SOUND 1" flash S 1

DSP program : "EFX1" flash E 1

DSP data : "EFX2" flash E 2

- **Confirmation of file transmission end (upgrade end)**

When the file transmission ends correctly, following comment is displayed.

"XMODEM Transfer Normal End"

A

In case of DSP program, DSP data, the following comment is displayed after the above-mentioned display.

"FrushRom Write Complete"

- Display of the set when the file is transferred
SOUND1, EFX1, EFX2 button: Light

■

③ **End of the up-date**

Turn off the DJM-1000, Exit the HYPER TERMINAL.

B

④ **Consecutive upgrade**

Confirm " • Confirmation of the file transmission end of ② ", then the upgrade can be done continously if the operate " • selection of the upgrade mode" is repeated.

■

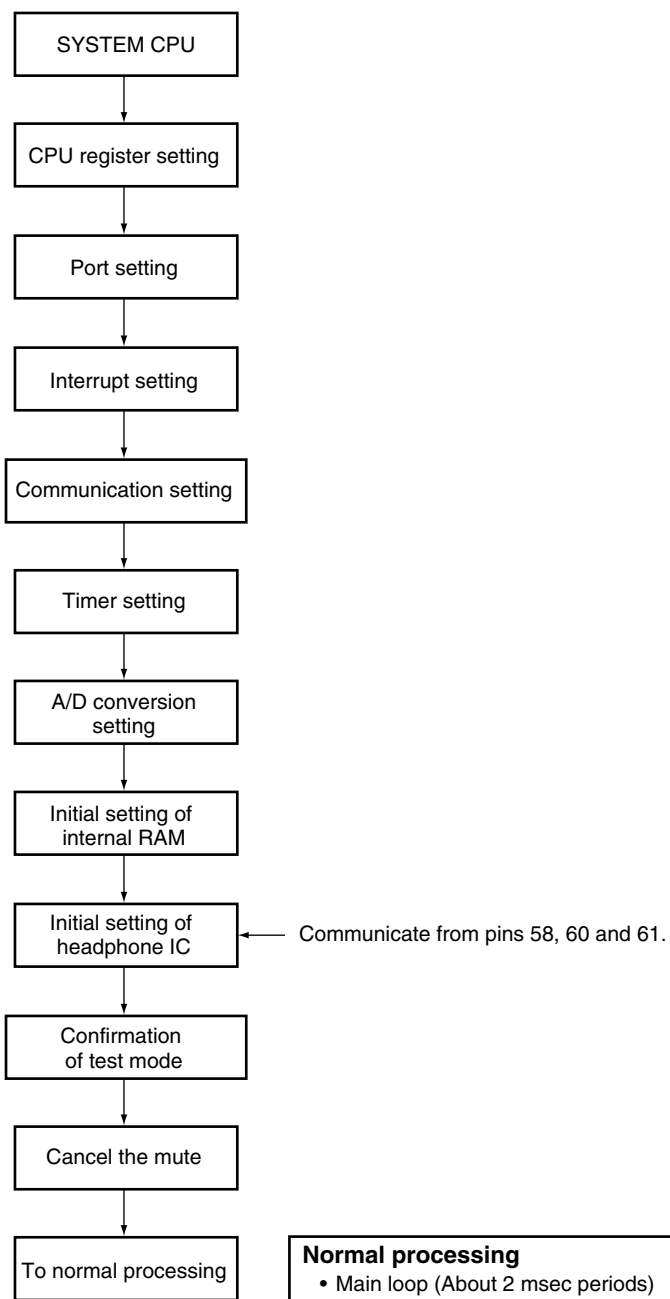
C

D

E

F

7.1.2 POWER ON SEQUENCE

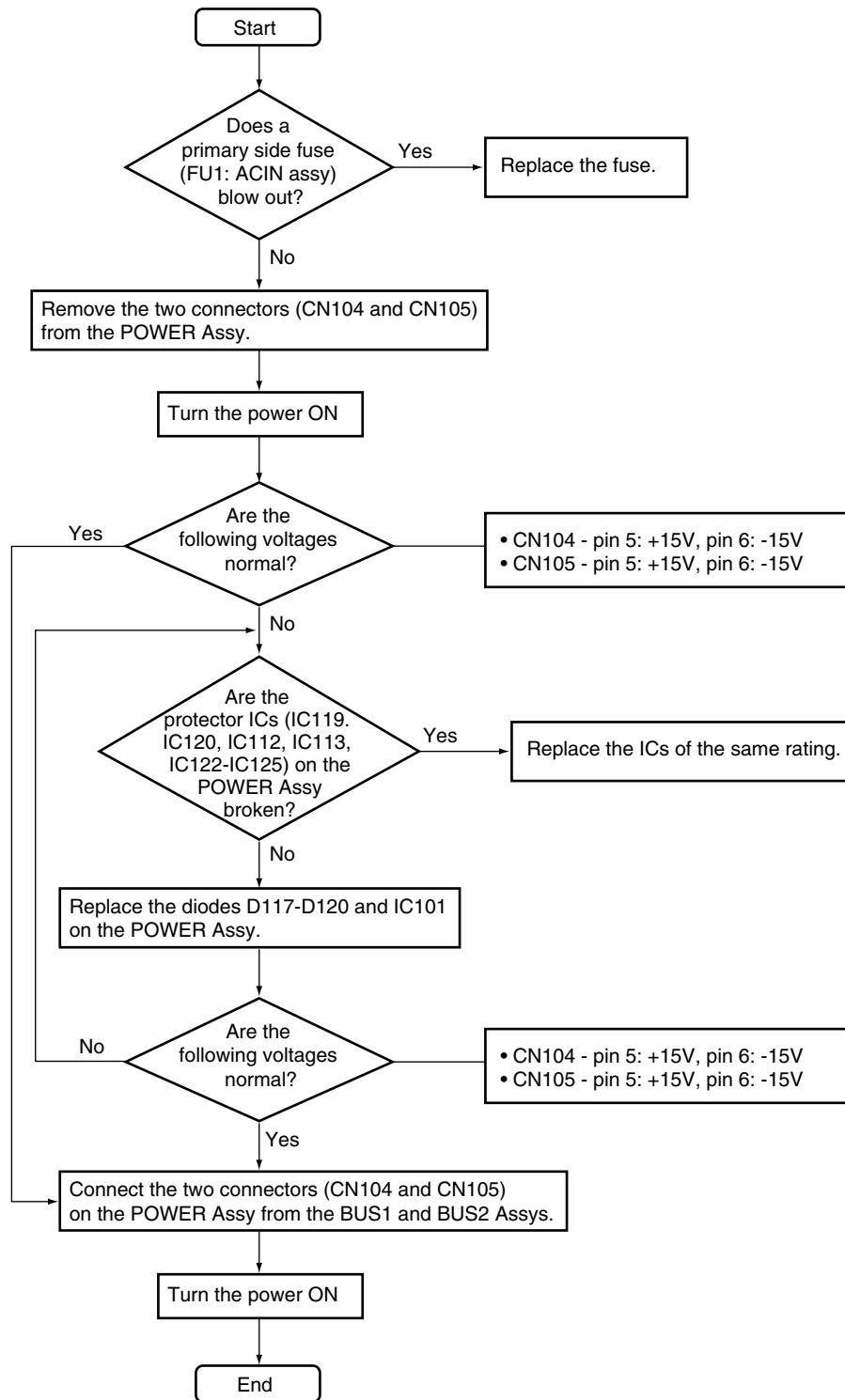


Normal processing

- Main loop (About 2 msec periods)
Processing contents
 - Processing of AD conversion value
 - Processing of the key
 - Data processing from the DSP
 - LINK communication
 - SRC communication
- Timer interruption 0 (500 μ sec periods)
Processing contents
 - Processing of the key matrix input
 - Processing of the LED display control
 - Processing of the digital volume output
 - Processing of the internal counter
- Timer interruption 1 (100 μ sec)
Processing contents
 - Switching of AD conversion
- Timer interruption 2 (125 μ sec)
- Timer interruption 3 (60 μ sec)
Processing contents
 - LED control

• For RLTXJ only

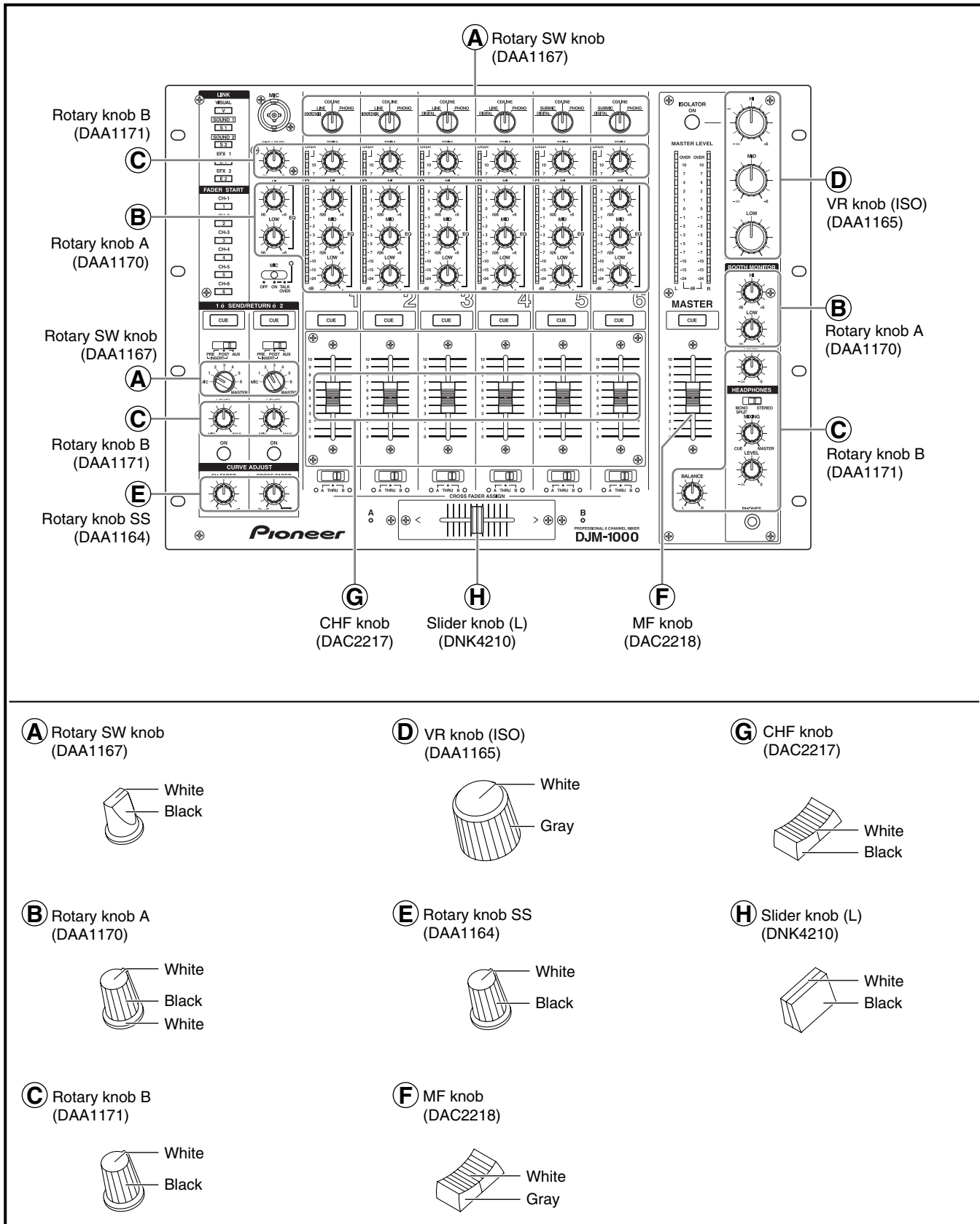
When set Voltage selector to 120V in the RLTXJ model and had supplied voltage doubler (240V) wrong, and power did not enter normal.



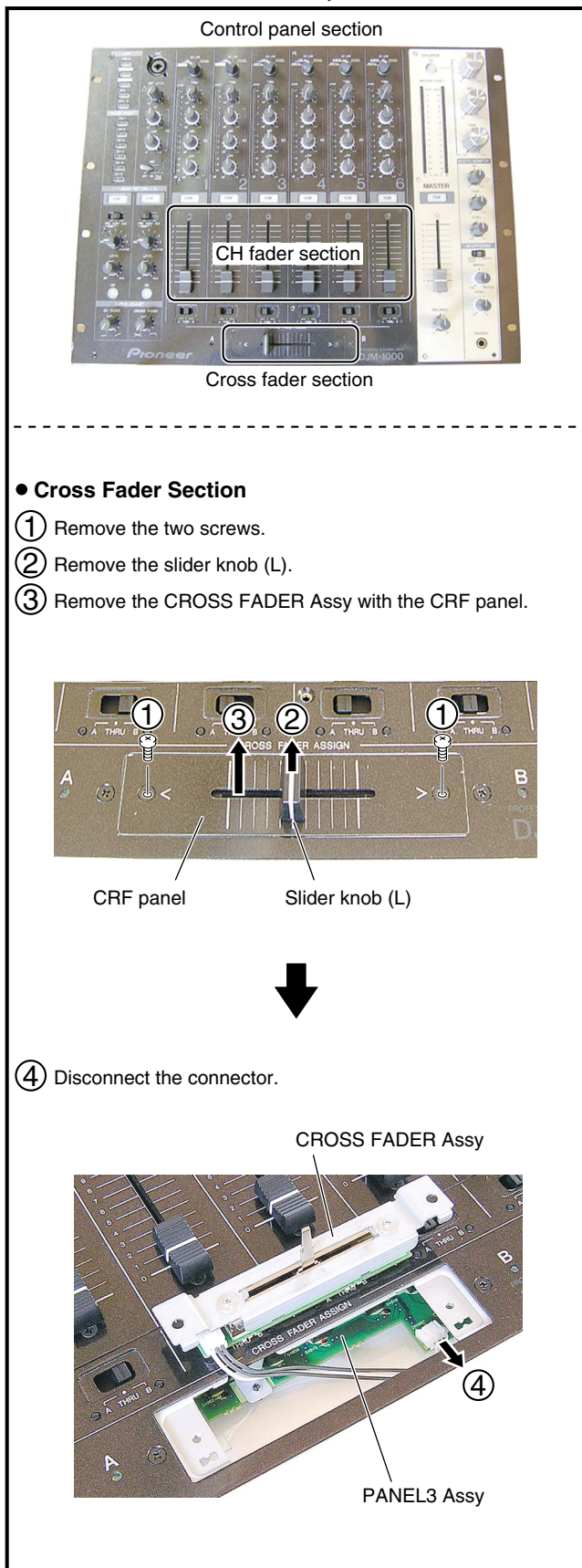
7.1.4 DISASSEMBLY

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

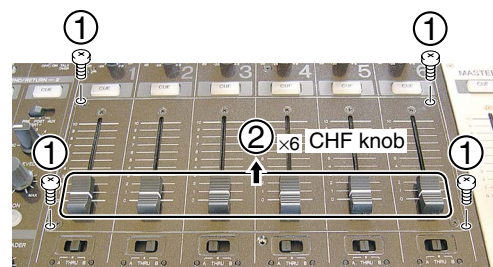


1 Cross Fader Section, CH Fader Section

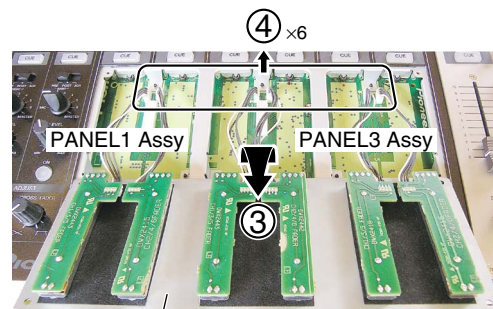


• CH Fader Section

- 1 Remove the four screws.
- 2 Remove the six CHF knobs.

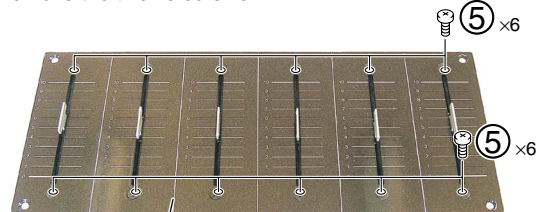


- 3 Remove the six CH FADER Assys with the CHF panel.
- 4 Disconnect the six connectors.

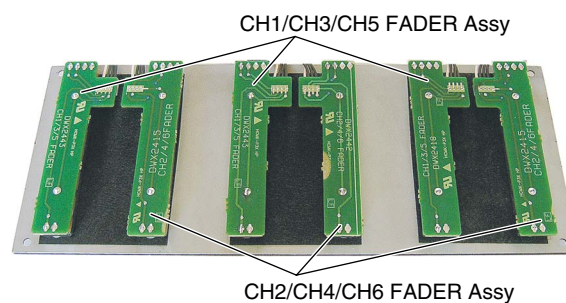


CHF panel

- 5 Remove the twelve screws.



CHF panel

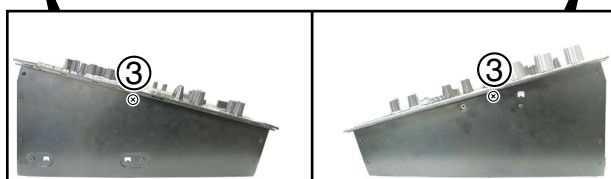
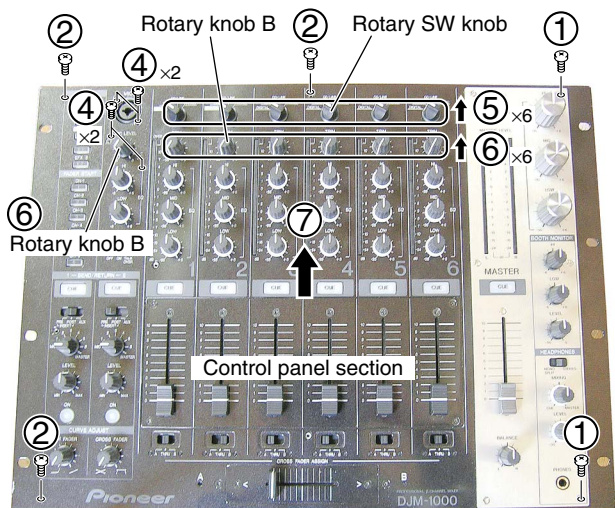


Reference :

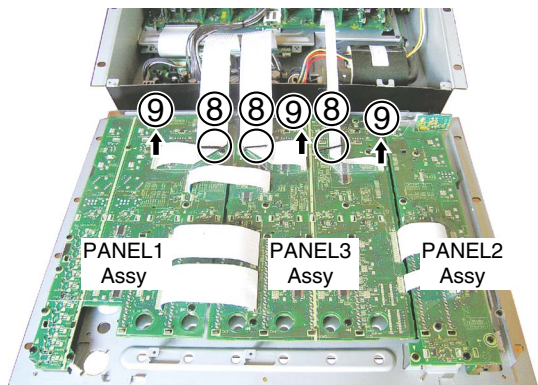
Although the ref. numbers for the CH1/CH3/CH5 FADER Assys are different, they are identical, and their functions in the circuitry are the same. You can connect to either of them. The CH2/CH4/CH6 FADER Assys are similar, too.

2 Control Panel Section

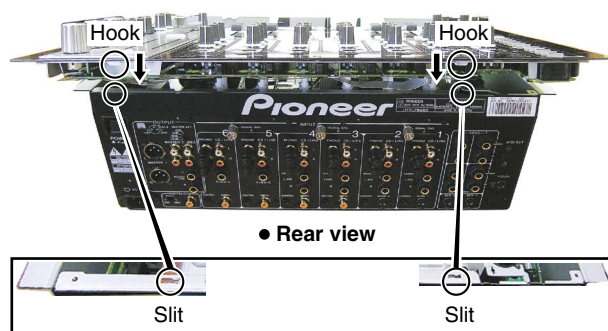
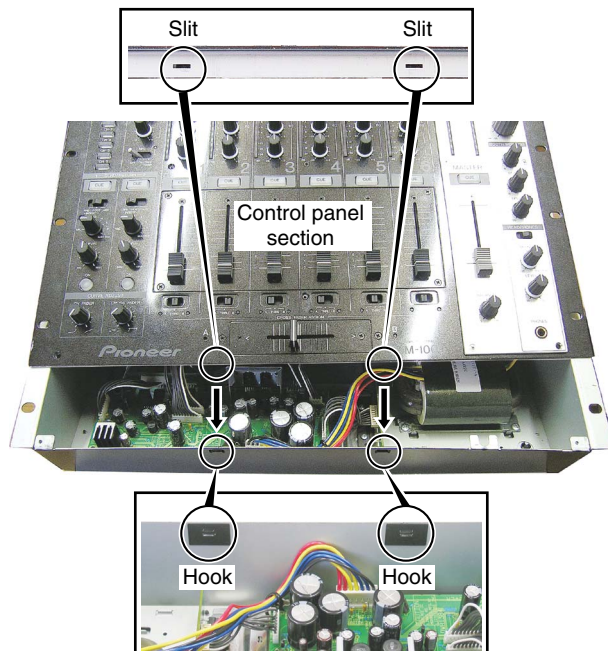
- ① Remove the two screws.
- ② Remove the three screws.
- ③ Remove the two screws.
- ④ Remove the four screws.
- ⑤ Remove the six rotary SW knobs.
- ⑥ Remove the seven rotary knob Bs.
- ⑦ Remove the control panel section.



- ⑧ Dislodge the three cord clammers.
- ⑨ Disconnect the three flexible cables.



• Position in Installation

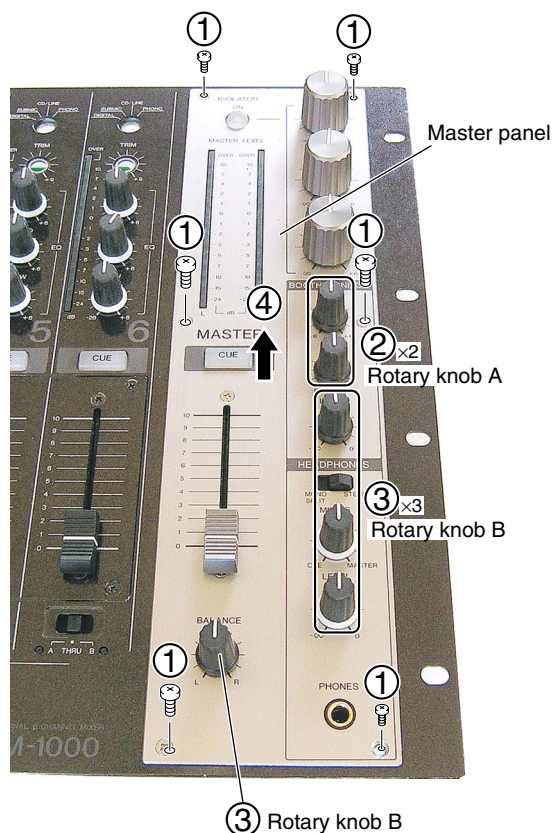


3 Master Fader Section

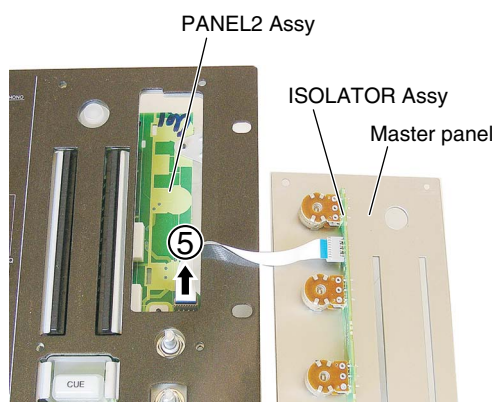
Note:

Master fader section can be removed without removing the control panel section.

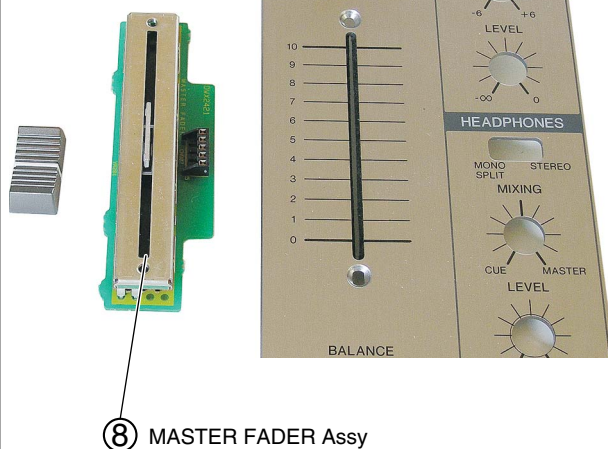
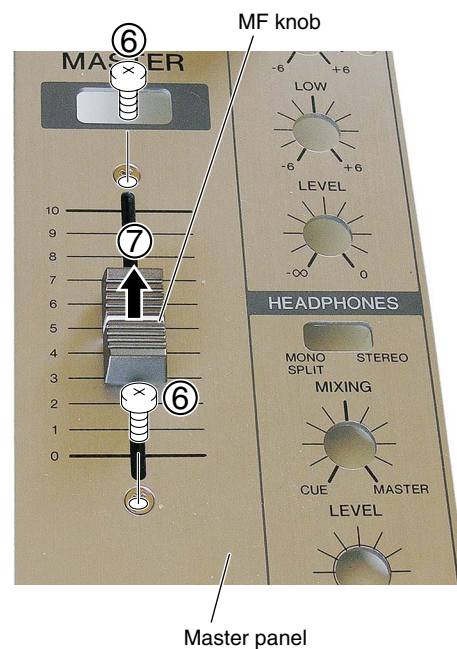
- ① Remove the six screws.
- ② Remove the two rotary knob As.
- ③ Remove the four rotary knob Bs.
- ④ Remove the master panel.



- ⑤ Disconnect the flexible cable.



- ⑥ Remove the two screws.
- ⑦ Remove the MF knob.
- ⑧ Remove the MASTER FADER Assy.

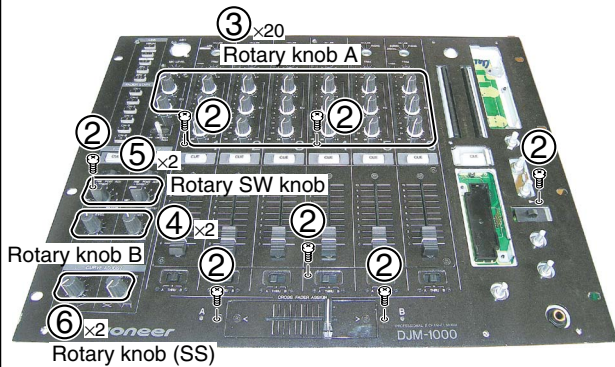


Note: When reattaching the MASTER FADER Assy in its original position, first attach it to the master panel. Then align the connector on the MASTER FADER Assy with one on the PANEL2 Assy and push straight down on the master panel to connect them properly.

4 PANEL1, 2 and 3 Assys

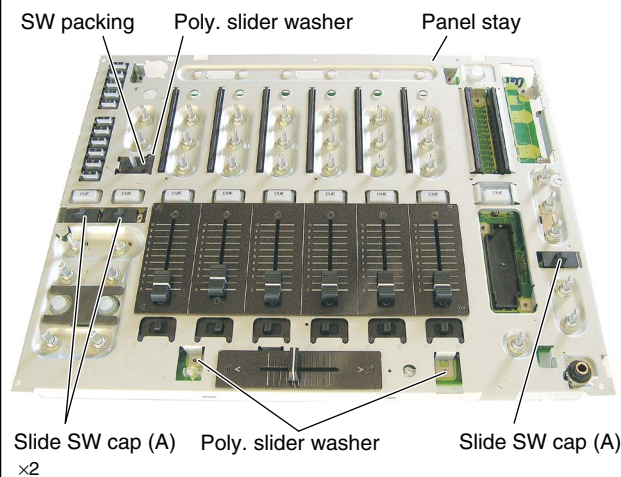
● Control Panel

- ① Remove the master fader section. (See step 3.)
- ② Remove the seven screws.
- ③ Remove the twenty rotary knob As.
- ④ Remove the two rotary knob Bs.
- ⑤ Remove the two rotary SW knobs.
- ⑥ Remove the two rotary knob (SS)s.



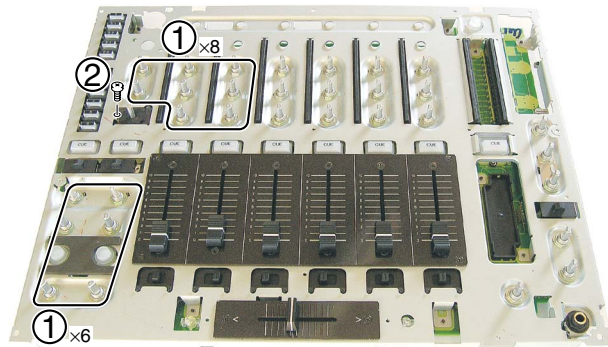
Note:

Do not lose the three slide SW cap (A)s, the SW packing and the three poly. slider washers on the LED lens.

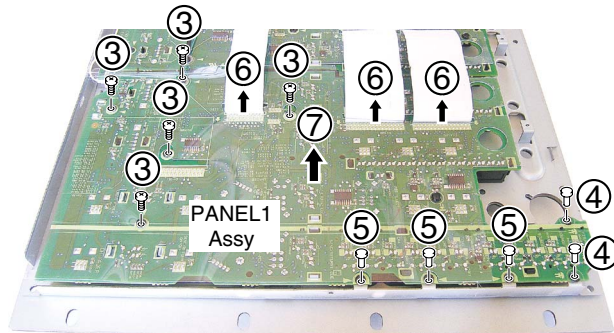


● PANEL1 Assy

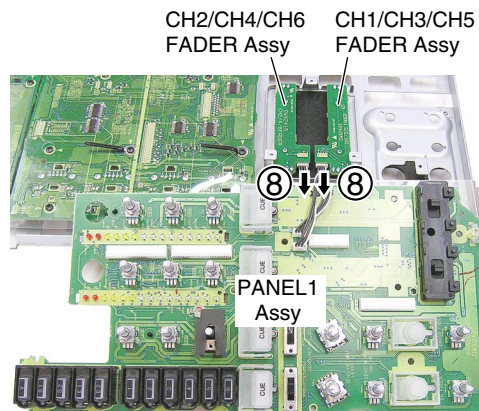
- ① Remove the fourteen nuts.
- ② Remove the one screw.



- ③ Remove the five screws.
- ④ Remove the two nylon rivets.
- ⑤ Remove the three nylon rivets.
- ⑥ Disconnect the three flexible cables.
- ⑦ Remove the PANEL1 Assy with the insulation sheet (A).

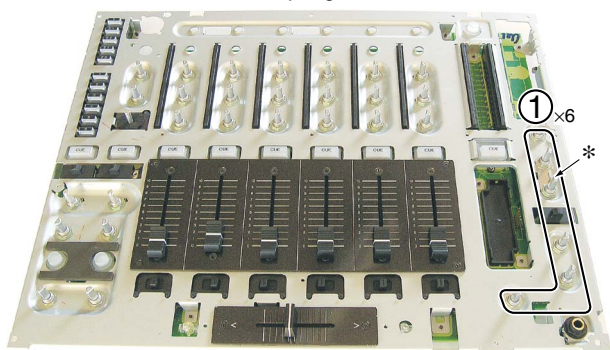


- ⑧ Disconnect the two connectors.

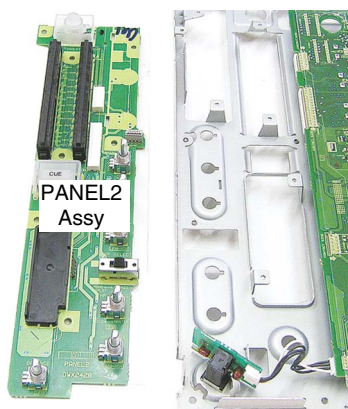
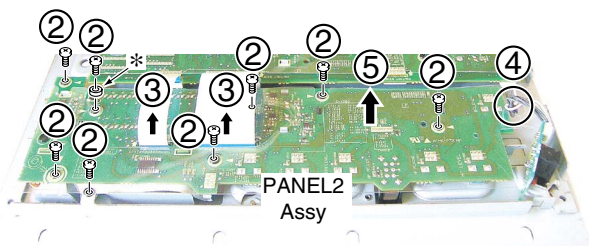


● PANEL2 Assy

- ① Remove the six nuts.
* : Do not lose the earth spring.

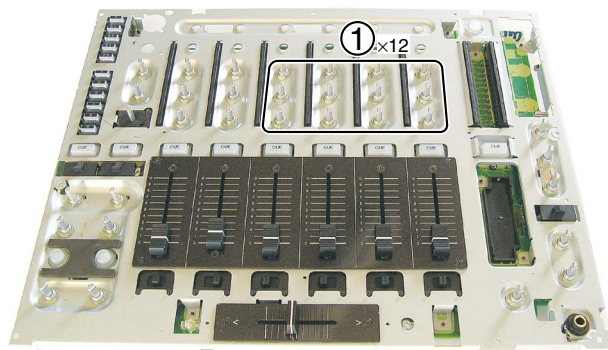


- ② Remove the eight screws.
* : Do not lose the POM bush.
- ③ Disconnect the two flexible cables.
- ④ Dislodge the jumper wire.
- ⑤ Remove the PANEL2 Assy with the insulation sheet (C).

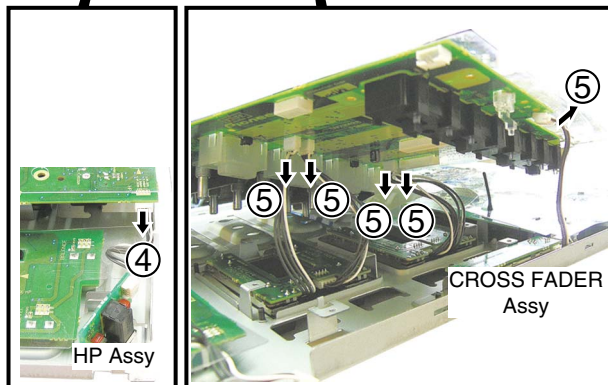
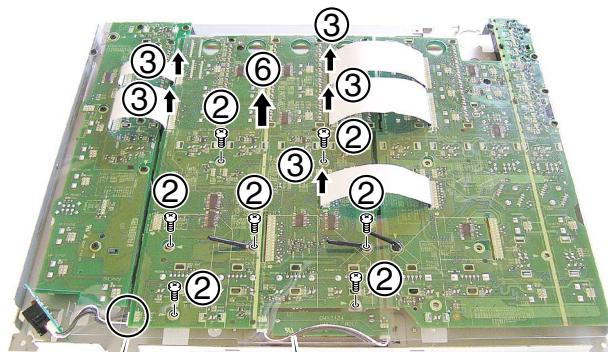


● PANEL3 Assy

- ① Remove the twelve nuts.



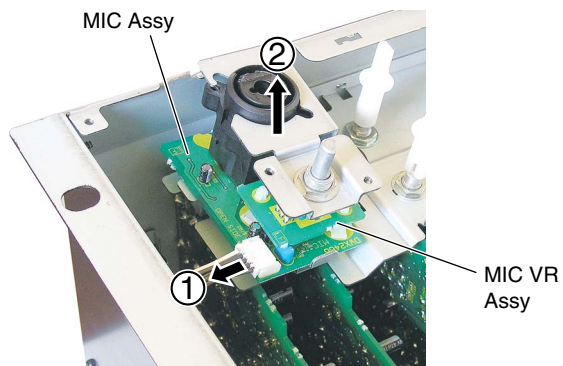
- ② Remove the seven screws.
- ③ Disconnect the five flexible cables.
- ④ Disconnect the connector.
- ⑤ Disconnect the five connectors.
- ⑥ Remove the PANEL3 Assy with the insulation sheet (B).



5 MIC. Section and VISUAL LINK Assy

• MIC. Section

- ① Disconnect the connector.
- ② Remove the MIC. section.

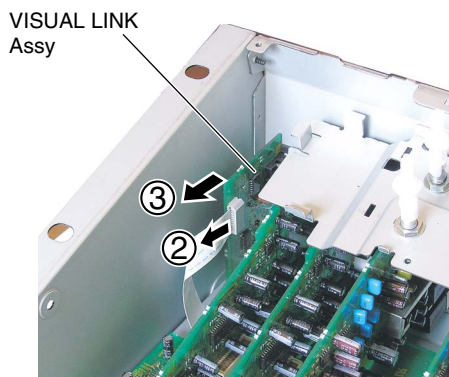


• VISUAL LINK Assy

- ① Remove the three screws.



- ② Disconnect the flexible cable.
- ③ Remove the VISUAL LINK Assy.

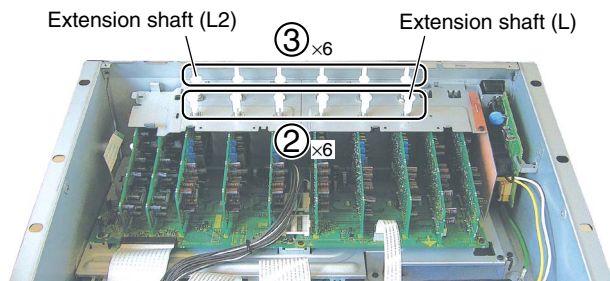


6 PCB Stay V (A) and (B) Assys

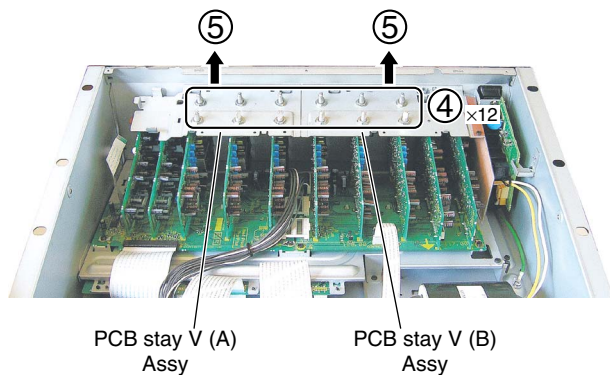
- ① Remove the four screws.



- ② Remove the six extension shaft (L)s.
- ③ Remove the six extension shaft (L2)s.



- ④ Remove the twelve nuts.
- ⑤ Remove the PCB stay V (A) and (B) Assys.

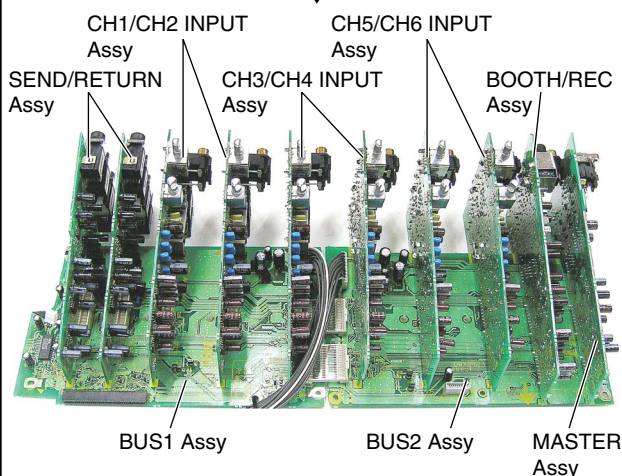
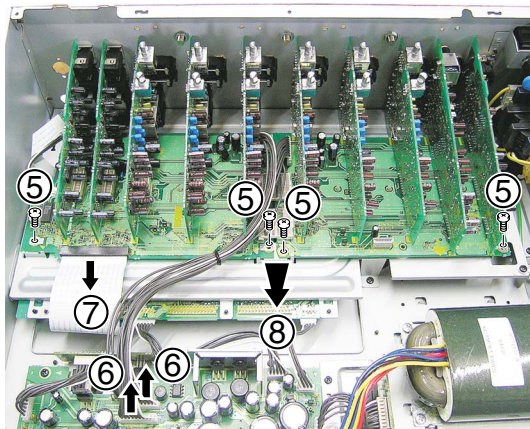


7 Input / Output Section

- ① Remove the twelve short pin plugs.
- ② Remove the twenty nuts.
- ③ Remove the seven screws.
- ④ Remove the four screws.



- ⑤ Remove the four screws.
- ⑥ Disconnect the two connectors.
- ⑦ Disconnect the flexible cable.
- ⑧ Remove the input / output section.

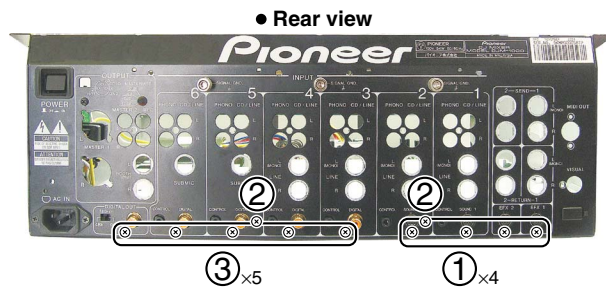


Reference :

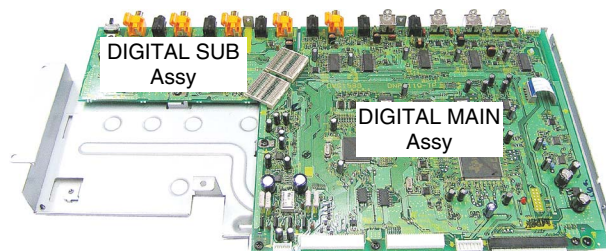
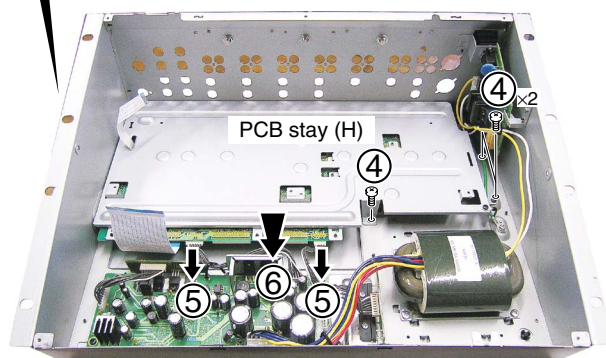
Although the ref. numbers for the CH1/CH2 and CH3/CH4 INPUT Assys are different, their functions in the circuitry are the same. You can connect to either of them.

8 DIGITAL MAIN and SUB Assys

- ① Remove the four screws.
- ② Remove the two screws.
- ③ Remove the five screws.

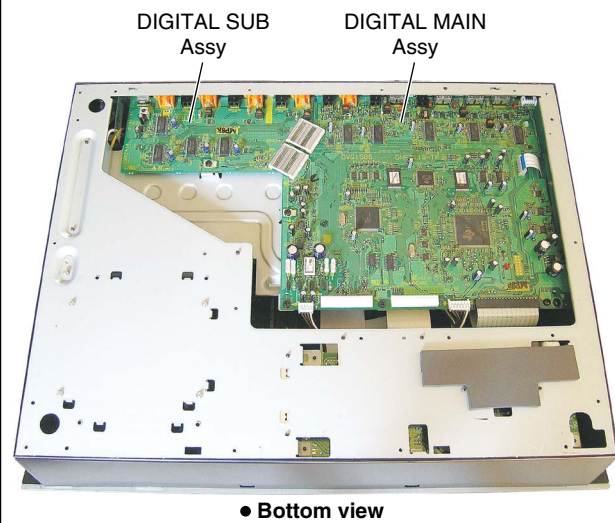
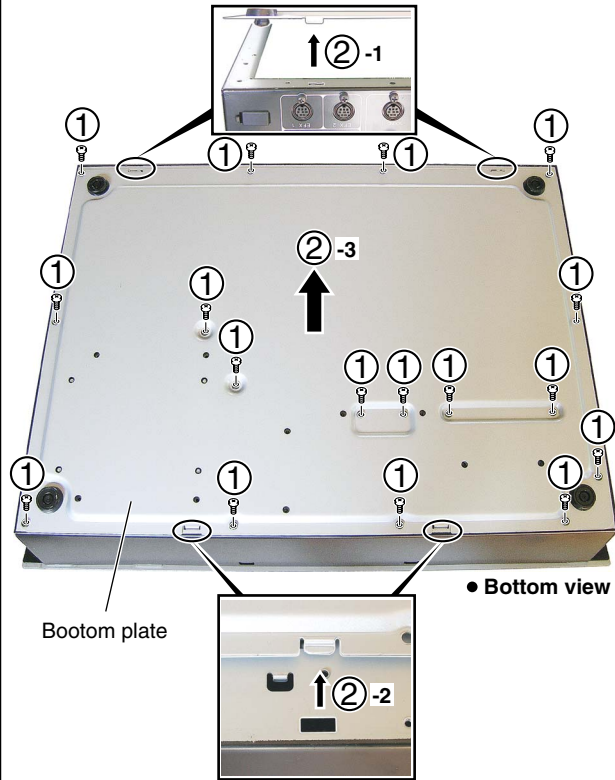


- ④ Remove the five screws.
- ⑤ Disconnect the two connectors.
- ⑥ Remove the DIGITAL MAIN Assy and DIGITAL SUB Assys with the PCB stay (H).



● **Diagnosis of DIGITAL MAIN and DIGITAL SUB Assys**

- ① Remove the seventeen screws.
② Remove the bottom plate.



7.2 PARTS

7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

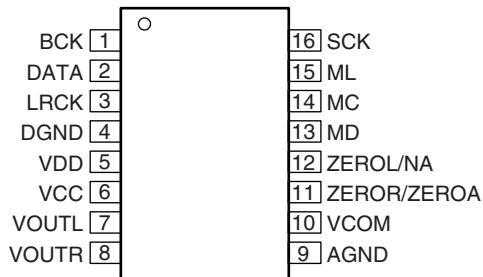
• List of IC

PCM1742KE, M30802SGP-K, ADS7842E, CS8420, D610A002BPYP225, CY7C024AV-25AXC-K, AK4393VF, AK5385VS, AK5394AVS, PGA2310UA

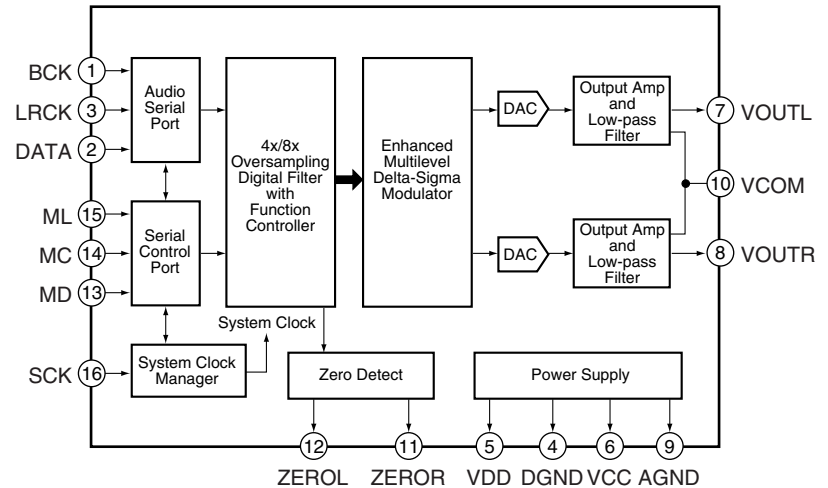
■ PCM1742KE (DIGITAL MAIN ASSY : IC1)

• Audio Digital-to-Analog Converter IC

• Pin Arrangement (Top view)



• Block Diagram



• Pin Function

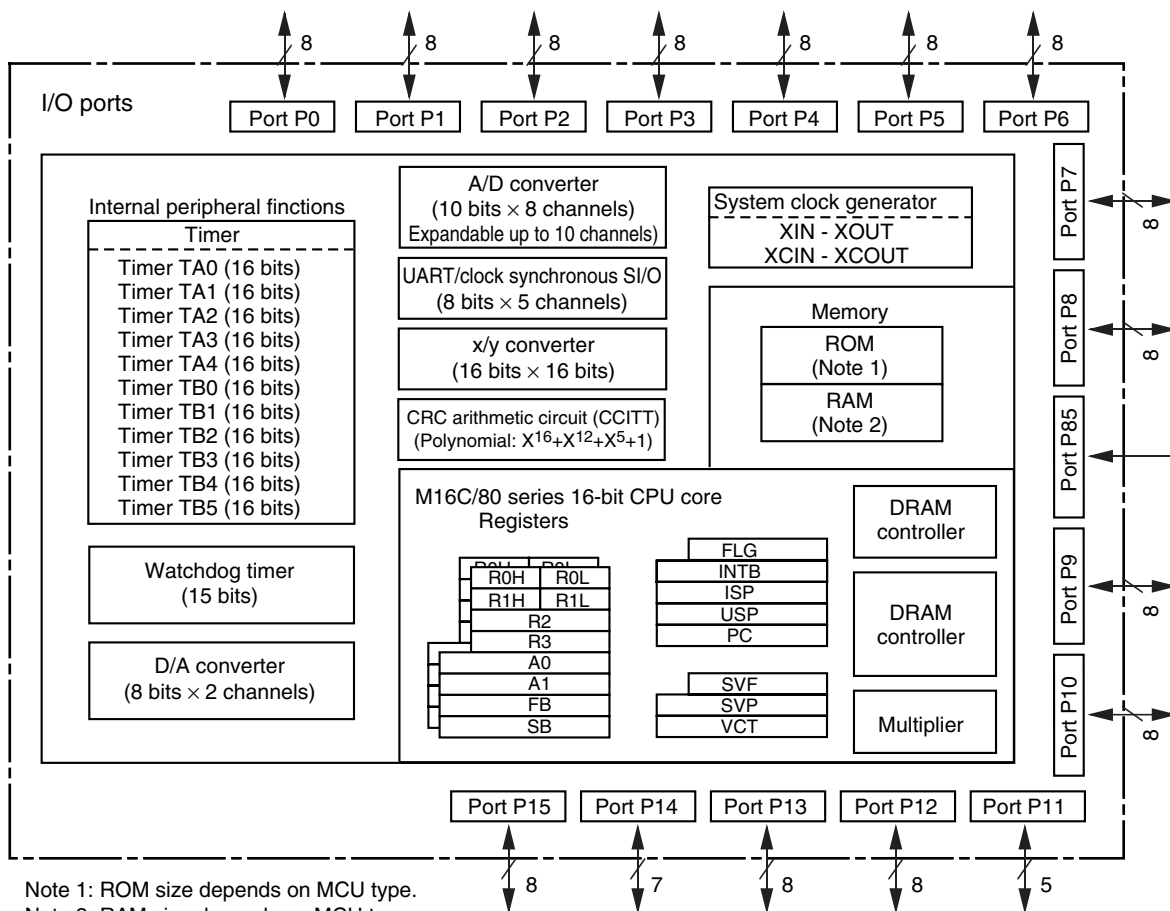
No.	Pin Name	I/O	Pin Function
1	BCK	I	Audio Data Bit Clock Input
2	DATA	I	Audio Data Digital Input
3	LRCK	I	L-Channel and R-Channel Audio Data Latch Enable Input
4	DGND	–	Digital Ground
5	VDD	–	Digital Power Supply, +3.3V
6	VCC	–	Analog Power Supply, +5V
7	VOUTL	I	Analog Output for L-Channel
8	VOUTR	I	Analog Output for R-Channel
9	AGND	–	Analog Ground
10	VCOM	–	Common Voltage Decoupling
11	ZEROR/ZEROA	O	Zero Flag Output for R-Channel/Zero Flag Output for L/R-Channel
12	ZEROL/NA	O	Zero Flag Output for L-Channel/No Assign
13	MD	I	Mode Control Data Input
14	MC	I	Mode Control Clock Input
15	ML	I	Mode Control Latch Input
16	SCK	I	System Clock Input

- CPU

F



● Block Diagram



● Pin Function

No.	Pin Name	I/O	Pin Function
1	P96/ANEX1/TXD4/SDA4/SRx4D4	I/O	8-bit I/O port P9 Pins in this port also function as UART3 and UART4 I/O pins, Timer B0-B4 input pins, D-A converter output pins, A-D converter extended input pins, or A-D trigger input pins as selected by software.
2	P95/ANEX0/CLK4	I/O	
3	P94/DA1/TB4IN/CTS4/RTS4/SS4	I/O	
4	P93/DA0/TB3IN/CTS3/RTS3/SS3	I/O	
5	P92/TB2IN/TxD3/SDA3/SRx4D3	I/O	
6	P91/TB1IN/RxD3/SCL3/STxD3	I/O	
7	P90/TB0IN/CLK3	I/O	
8	P146	I/O	7-bit I/O port P14
9	P145	I/O	7-bit I/O port P14
10	P144	I/O	7-bit I/O port P14
11	P143	I/O	7-bit I/O port P14
12	P142	I/O	7-bit I/O port P14
13	P141	I/O	7-bit I/O port P14
14	P140	I/O	7-bit I/O port P14
15	BYTE	I	External data bus width select A 16-bit width is selected when this input is "L"; an 8-bit width is selected when this input is "H".
16	CNVSS	I	This pin switches between processor modes.
17	P87/XCIN	I/O	I/O port P8 / Input for sub clock generation circuit
18	P86/XCOUT	I/O	I/O port P8 / Output for sub clock generation circuit
19	RESET	I	Reset input L: Reset
20	XOUT	O	Main clock output
21	VSS	-	Ground (0V)

A

No.	Pin Name	I/O	Pin Function
22	XIN	I	Main clock input
23	VCC	–	Power supply Supply 4.2 to 5.5 V to the VCC pin.
24	P85/ $\overline{\text{NMI}}$	I/O	I/O port P8 / NMI input
25	P84/ $\overline{\text{INT2}}$	I/O	I/O port P8 / external interrupt input
26	P83/ $\overline{\text{INT1}}$	I/O	I/O port P8 / external interrupt input
27	P82/ $\overline{\text{INT0}}$	I/O	I/O port P8 / external interrupt input
28	P81/TA4IN/ $\overline{\text{U}}$	I/O	I/O port P8 / Timer A4 input
29	P80/TA4OUT/U	I/O	I/O port P8 / Timer A4 output
30	P77/TA3IN	I/O	8-bit I/O port P7 / Timer A3 input
31	P76/TA3OUT	I/O	8-bit I/O port P7 / Timer A3 output
32	P75/TA2IN/ $\overline{\text{W}}$	I/O	8-bit I/O port P7 / Timer A2 input
33	P74/TA2OUT/W	I/O	8-bit I/O port P7 / Timer A2 output
34	P73/ $\overline{\text{CTS2}}/\overline{\text{RTS2}}/\text{TA1IN}/\overline{\text{V}}$	I/O	8-bit I/O port P7 / Timer A1 input
35	P72/CLK2/TA1OUT/V	I/O	8-bit I/O port P7 / Timer A1 output
36	P71/RXD2/SCL2/TA0IN/TB5IN	I/O	8-bit I/O port P7 (N ch open-drain output) / Timer A0 input / Timer B5 input
37	P70/TXD2/SDA2/TA0OUT	I/O	8-bit I/O port P7 / Timer A0 output
38	P67/TXD1	I/O	8-bit I/O port P6
39	VCC	–	Power supply Supply 4.2 to 5.5 V to the VCC pin.
40	P66/RXD1	I/O	8-bit I/O port P6
41	VSS	–	Ground (0V)
42	P65/CLK1	I/O	8-bit I/O port P6
43	P64/ $\overline{\text{CTS1}}/\overline{\text{RTS1}}/\overline{\text{CTS0}}/\overline{\text{CLKS1}}$	I/O	8-bit I/O port P6
44	P63/TXD0	I/O	8-bit I/O port P6
45	P62/RXD0	I/O	8-bit I/O port P6
46	P61/CLK0	I/O	8-bit I/O port P6
47	P60/ $\overline{\text{CTS0}}/\overline{\text{RTS0}}$	I/O	8-bit I/O port P6
48	P137	I/O	8-bit I/O port P13
49	P136	I/O	8-bit I/O port P13
50	P135	I/O	8-bit I/O port P13
51	P134	I/O	8-bit I/O port P13
52	P57/ $\overline{\text{RDY}}$	I/O	8-bit I/O port P5 / RDY signal input
53	P56/ALE/RAS	I/O	8-bit I/O port P5 / ALE signal output / RAS signal output
54	P55/HOLD	I/O	8-bit I/O port P5 / HOLD signal input
55	P54/ $\overline{\text{HLDA}}/\text{ALE}$	I/O	8-bit I/O port P5 / HLDA signal output / ALE signal output
56	P133	I/O	8-bit I/O port P13
57	VSS	–	Ground (0V)
58	P132	I/O	8-bit I/O port P13
59	VCC	–	Power supply Supply 4.2 to 5.5 V to the VCC pin.
60	P131	I/O	8-bit I/O port P13
61	P130	I/O	8-bit I/O port P13
62	P53/ $\overline{\text{BCLK}}/\text{ALE}/\overline{\text{CLKOUT}}$	I/O	8-bit I/O port P5 / BCLK signal output / ALE signal output
63	P52/ $\overline{\text{RD}}/\overline{\text{DW}}$	I/O	8-bit I/O port P5 / RD signal output / DW signal output
64	P51/ $\overline{\text{WRH}}/\overline{\text{BHE}}/\overline{\text{CASH}}$	I/O	8-bit I/O port P5 / WRH signal output / BHE signal output / CASH signal output
65	P50/ $\overline{\text{WRL}}/\overline{\text{WR}}/\overline{\text{CASL}}$	I/O	8-bit I/O port P5 / WRL signal output / WR signal output / CASL signal output
66	P127	I/O	8-bit I/O port P12
67	P126	I/O	8-bit I/O port P12
68	P125	I/O	8-bit I/O port P12

F

No.	Pin Name	I/O	Pin Function
69	P47/ $\overline{\text{CS0}}$ /A23	I/O	8-bit I/O port P4 / These pins output 8 high-order address bits (A16-A23). Highest address bit (A23) outputs inversely. CS0-CS3: CS0-CS3 chip select signal output MA11-MA12: If accessing to DRAM area, these pins output data separated in time by multiplexing.
70	P46/ $\overline{\text{CS1}}$ /A22	I/O	
71	P45/ $\overline{\text{CS2}}$ /A21	I/O	
72	P44/ $\overline{\text{CS3}}$ /A20(MA12)	I/O	
73	P43/A19(MA11)	I/O	
74	VCC	–	Power supply Supply 4.2 to 5.5 V to the VCC pin.
75	P42/A18(MA10)	I/O	8-bit I/O port P4 / This pin output 8 high-order address bit (A18). MA10: If accessing to DRAM area, this pin output data separated in time by multiplexing.
76	VSS	–	Ground (0V)
77	P41/A17(MA9)	I/O	8-bit I/O port P4 / This pin output 8 high-order address bit (A17). MA9: If accessing to DRAM area, this pin output data separated in time by multiplexing.
78	P40/A16(MA8)	I/O	8-bit I/O port P4 / This pin output 8 high-order address bit (A16). MA8: If accessing to DRAM area, this pin output data separated in time by multiplexing.
79	P37/A15(MA7)/(D15)	I/O	8-bit I/O port P3 / These pins output 8 middle-order address bits (A9-A15). A9/D9-A15/D15: If the external bus is set as a 16-bit wide multiplexed bus, these pins input and output data (D9-D15) and output 8 middle-order address bits (A9-A15) separated in time by multiplexing. MA1-MA7: If accessing to DRAM area, these pins output row address and column address separated in time by multiplexing.
80	P36/A14(MA6)/(D14)	I/O	
81	P35/A13(MA5)/(D13)	I/O	
82	P34/A12(MA4)/(D12)	I/O	
83	P33/A11(MA3)/(D11)	I/O	
84	P32/A10(MA2)/(D10)	I/O	
85	P31/A9(MA1)/(D9)	I/O	
86	P124	I/O	8-bit I/O port P12
87	P123	I/O	8-bit I/O port P12
88	P122	I/O	8-bit I/O port P12
89	P121	I/O	8-bit I/O port P12
90	P120	I/O	8-bit I/O port P12
91	VCC	–	Power supply Supply 4.2 to 5.5 V to the VCC pin.
92	P30/A8(MA0)/(D8)	I/O	8-bit I/O port P3 / This pin output 8 middle-order address bits (A8), data (D8) input/output / MA0: If accessing to DRAM area, this pin output data separated in time by multiplexing.
93	VSS	–	Ground (0V)
94	P27/A7/(D7)	I/O	8-bit I/O port P2 / These pins output 8 low-order address bits (A0-A7). If a multiplexed bus is set, these pins input and output data (D0-D7) and output 8 low-order address bits (A0-A7) separated in time by multiplexing.
95	P26/A6/(D6)	I/O	
96	P25/A5/(D5)	I/O	
97	P24/A4/(D4)	I/O	
98	P23/A3/(D3)	I/O	
99	P22/A2/(D2)	I/O	
100	P21/A1/(D1)	I/O	
101	P20/A0/(D0)	I/O	
102	P17/D15/ $\overline{\text{INT5}}$	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D15)/external interrupt
103	P16/D14/ $\overline{\text{INT4}}$	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D14)/external interrupt
104	P15/D13/ $\overline{\text{INT3}}$	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D13)/external interrupt
105	P14/D12	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D12).
106	P13/D11	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D11).
107	P12/D10	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D10).
108	P11/D9	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D9).
109	P10/D8	I/O	8-bit I/O port P1 / When set as a separate bus, this pin input/output data (D8).
110	P07/D7	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D7).
111	P06/D6	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D6).
112	P05/D5	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D5).
113	P04/D4	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D4).
114	P114	I/O	5-bit I/O port P11
115	P113	I/O	5-bit I/O port P11
116	P112	I/O	5-bit I/O port P11

A

No.	Pin Name	I/O	Pin Function
117	P111	I/O	5-bit I/O port P11
118	P11O	I/O	5-bit I/O port P11
119	P03/D3	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D3).
120	P02/D2	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D2).
121	P01/D1	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D1).
122	P00/D0	I/O	CMOS 8-bit I/O port P0 / When set as a separate bus, this pin input/output data (D0).
123	P157	I/O	8-bit I/O port P15
124	P156	I/O	8-bit I/O port P15
125	P155	I/O	8-bit I/O port P15
126	P154	I/O	8-bit I/O port P15
127	P153	I/O	8-bit I/O port P15
128	P152	I/O	8-bit I/O port P15
129	P151	I/O	8-bit I/O port P15
130	VSS	–	Ground (0V)
131	P150	I/O	8-bit I/O port P15
132	VCC	–	Power supply Supply 4.2 to 5.5 V to the VCC pin.
133	P107/AN7/KI3	I/O	8-bit I/O port P10 Pins in this port also function as A-D converter input pins. Furthermore, P104-P107 also function as input pins for the key input interrupt function.
134	P106/AN6/KI2	I/O	
135	P105/AN5/KI1	I/O	
136	P104/AN4/KI0	I/O	
137	P103/AN3	I/O	
138	P102/AN2	I/O	
139	P101/AN1	I/O	
140	AVSS	–	This pin is a power supply input for the A-D converter. Connect this pin to VSS.
141	P100/AN0	I/O	8-bit I/O port P10 / A-D converter input
142	VREF	I	This pin is a reference voltage input for the A-D converter.
143	AVCC	–	This pin is a power supply input for the A-D converter. Connect this pin to VCC.
144	P97/ADTRG/RxD4/SCL4/STxD4	I/O	8-bit I/O port P9 / A-D trigger input / UART4 input/output

D

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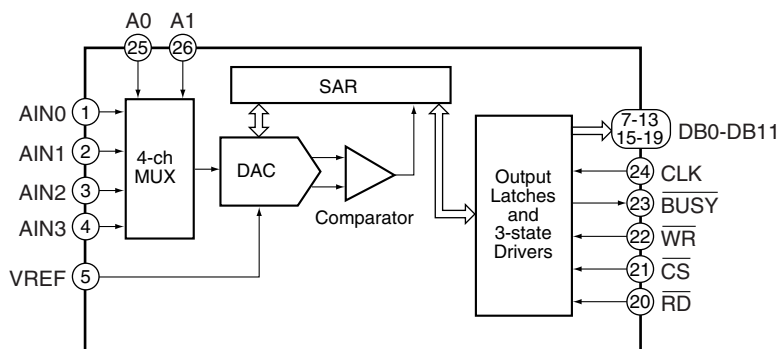
■ ADS7842E (DIGITAL MAIN ASSY : IC8, IC9)

• Analog-to-Digital Converter IC

● Pin Arrangement (Top view)



● Block Diagram



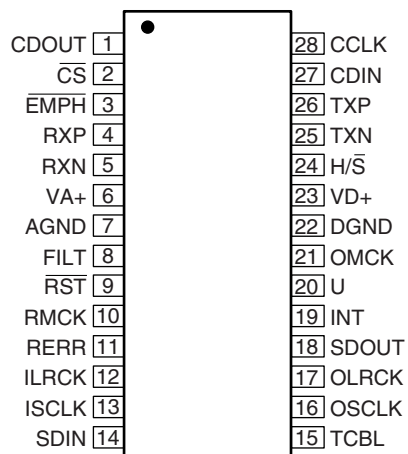
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	AIN0	I	Analog Input Channel 0	20	$\overline{\text{RD}}$	I	Read Input. Active LOW. Reads the data outputs in combination with CS.
2	AIN1	I	Analog Input Channel 1	21	$\overline{\text{CS}}$	I	Chip Select Input. Active LOW. The combination of CS taken LOW and WR taken LOW initiates a new conversion and places the outputs in the tri-state mode.
3	AIN2	I	Analog Input Channel 2	22	$\overline{\text{WR}}$	I	Write Input. Active LOW. Starts a new conversion and selects an analog channel via address inputs A0 and A1, in combination with CS.
4	AIN3	I	Analog Input Channel 3	23	$\overline{\text{BUSY}}$	O	BUSY goes LOW and stays LOW during a conversion. BUSY rises when a conversion is complete and enables the parallel outputs.
5	VREF	–	Reference Voltage Input	24	CLK	I	External Clock Input. The clock speed determines the conversion rate by the equation $f_{\text{CLK}} = 16 \cdot f_{\text{SAMPLE}}$.
6	AGND	–	Analog Ground	25	A0	I	Address Inputs. Selects one of four analog input channels in combination with $\overline{\text{CS}}$ and $\overline{\text{WR}}$. The address inputs are latched on the rising edge of either $\overline{\text{RD}}$ or $\overline{\text{WR}}$. A1 0 0 1 1 A0 0 1 0 1 Channel Selected AIN0 AIN1 AIN2 AIN3
7	DB11	O	Data Bit 11 (MSB)	26	A1	I	
8	DB10	O	Data Bit 10	27	VDIG	–	Digital Supply Input. Nominally +5V.
9	DB9	O	Data Bit 9	28	VANA	–	Analog Supply Input. Nominally +5V.
10	DB8	O	Data Bit 8				
11	DB7	O	Data Bit 7				
12	DB6	O	Data Bit 6				
13	DB5	O	Data Bit 5				
14	DGND	–	Digital Ground				
15	DB4	O	Data Bit 4				
16	DB3	O	Data Bit 3				
17	DB2	O	Data Bit 2				
18	DB1	O	Data Bit 1				
19	DB0	O	Data Bit 0 (LSB)				

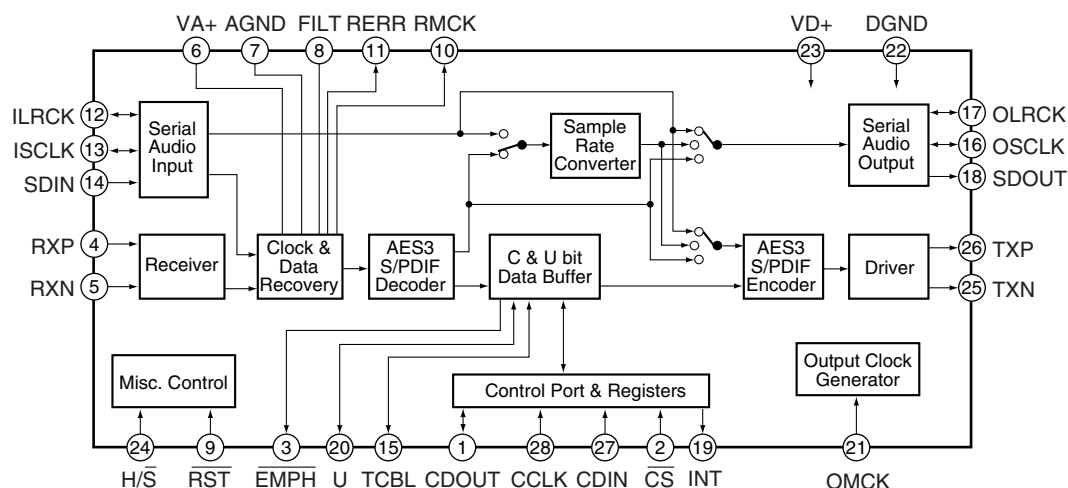
CS8420 (DIGITAL MAIN ASSY : IC16, IC17, IC20, IC36, IC37) (DIGITAL SUB ASSY : IC701, IC705-IC707)

- Digital Audio Sample Rate Converter IC

Pin Arrangement (Top view)



Block Diagram



● Pin Function

No.	Pin Name	I/O	Pin Function
1	CDOUT	O	Data out (SPI) In SPI mode, CDOUT is the output data from the control port interface on the CS8420.
2	$\overline{\text{CS}}$	–	Control Port Chip Select (SPI) A falling edge on this pin puts the CS8420 into SPI control port mode. In SPI mode, CS is used to enable the control port interface on the CS8420.
3	$\overline{\text{EMPH}}$	O	Pre-emphasis Indicator Output
4	RXP	I	Differential Line Receiver Inputs, carrying AES3-type data.
5	RXN	I	Differential Line Receiver Inputs, carrying AES3-type data.
6	VA+	–	Positive supply for the analog section. Nominally +5.0 V.
7	AGND	–	Ground for the analog section.
8	FILT	–	PLL Loop Filter
9	$\overline{\text{RST}}$	I	Reset Input
10	RMCK	O	Input section recovered master clock output. Will be at a frequency of 128x or 256x the input sample rate (Fsi).
11	RERR	–	Receiver Error Indicator
12	ILRCK	I/O	Serial Audio Input Port, Left/Right Clock input or output Word rate clock for the audio data on the SDIN pin. The frequency will be at the input sample rate (Fsi)
13	ISCLK	I	Serial bit clock input or output for audio data on the SDIN pin.
14	SDIN	I	Audio data serial input pin.
15	TCBL	I/O	Transmit Channel Status Block Start
16	OSCLK	I/O	Serial Audio Output Port, Bit Clock input or output
17	OLRCK	I/O	Serial Audio Output Port, Left/Right Clock input or output Word rate clock for the audio data on the SDOUT pin. The frequency will be at the output sample rate (Fso)
18	SDOUT	O	Audio data serial output
19	INT	O	Interrupt Output
20	U	–	User Data The U pin may optionally be used to input User data for transmission by the AES3 transmitter. Alternatively, the U pin may be set to output User data from the AES3 receiver.
21	OMCK	I	Output section master clock input. The frequency must be 256x, 384x, or 512x the output sample rate (Fso).
22	DGND	–	Ground for the digital section.
23	VD+	–	Positive supply for the digital section. Nominally +5.0 V.
24	H/ $\overline{\text{S}}$	–	Hardware or Software Control Mode Select
25	TXN	O	Differential Line driver outputs
26	TXP	O	Differential Line driver outputs
27	CDIN	I	Serial Control data in (SPI) In SPI mode, CDIN is the input data line for the control port interface
28	CCLK	I/O	Control Port clock

D610A002BPYP225 (DIGITAL MAIN ASSY : IC32)

• DSP

A

• Pin Arrangement (Top view)

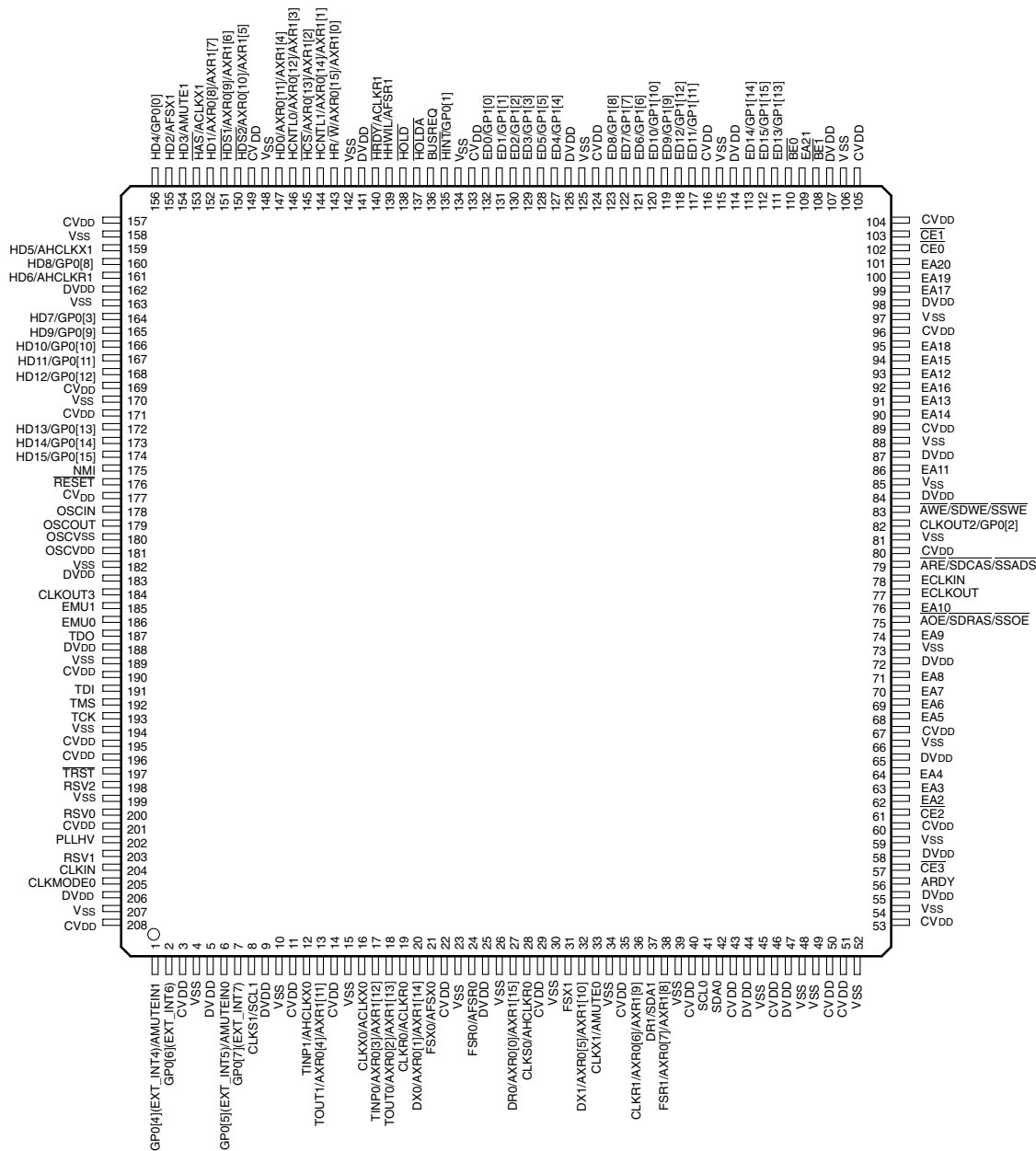
B

C

D

E

F



● Pin Function

No.	Pin Name	I/O	Pin Function
CLOCK/PLL CONFIGURATION			
204	CLKIN	I	Clock Input
82	CLKOUT2/GP0[2]	O/Z	Clock output at half of device speed (O/Z) [default] (SYSCLK2 internal signal from the PLL controller) or this pin can be programmed as GP0[2] pin (I/O/Z)
184	CLKOUT3	O	Programmable clock output (OSC Divider internal signal from PLL controller)
205	CLKMODE0	I	PLL input clock source select
202	PLLHV	A	Analog power (3.3 V) for PLL
178	OSCIN	I	Crystal oscillator Input (XI)
179	OSCOUT	O	Crystal oscillator output (XO)
181	OSCVDD	S	Power supply for crystal oscillator (1.2 V)
180	OSCVSS	GND	Ground for crystal oscillator
JTAG EMULATION			
192	TMS	I	JTAG test-port mode select
187	TDO	O/Z	JTAG test-port data output
191	TDI	I	JTAG test-port data input
193	TCK	I	JTAG test-port clock
197	TRST	I	JTAG test-port reset
185	EMU1	I/O/Z	Emulation [1:0] pin
186	EMU0	I/O/Z	
RESETS AND INTERRUPTS			
176	RESET	I	Device reset
175	NMI	I	Nonmaskable interrupt
7	GP0[7](EXT_INT7)	I/O/Z	General-purpose input/output 0 pins (I/O/Z) which also function as external interrupts [default] • Edge driven • Polarity independently selected via the External Interrupt Polarity Register bits (EXTPOL.[3:0]) GP0[4] and GP0[5] pins also function as AMUTEIN1 McASP1 mute input and AMUTEIN0 McASP0 mute input, respectively.
2	GP0[6](EXT_INT6)	I/O/Z	
6	GP0[5](EXT_INT5)/AMUTEIN0	I/O/Z	
1	GP0[4](EXT_INT4)/AMUTEIN1	I/O/Z	
HOST-PORT INTERFACE (HPI)			
174	HD15/GP0[15]	I/O/Z	Host-port data pins (I/O/Z) [default] or general-purpose input/output 0 pins (I/O/Z) and some function as boot configuration pins at reset.
173	HD14/GP0[14]	I/O/Z	
172	HD13/GP0[13]	I/O/Z	
168	HD12/GP0[12]	I/O/Z	
167	HD11/GP0[11]	I/O/Z	
166	HD10/GP0[10]	I/O/Z	
165	HD9/GP0[9]	I/O/Z	
160	HD8/GP0[8]	I/O/Z	
164	HD7/GP0[3]	I/O/Z	
HOST-PORT INTERFACE (HPI) (CONTINUED)			
161	HD6/AHCLKR1	I/O/Z	Host-port data pin 6 (I/O/Z) [default] or McASP1 receive high-frequency master clock (I/O/Z).
159	HD5/AHCLKX1	I/O/Z	Host-port data pin 5 (I/O/Z) [default] or McASP1 transmit high-frequency master clock (I/O/Z).
156	HD4/GP0[0]	I/O/Z	Host-port data pin 4 (I/O/Z) [default] or this pin can be programmed as a GP0 0 pin (I/O/Z) and is external interrupt capable through interrupt sharing.
154	HD3/AMUTE1	I/O/Z	Host-port data pin 3 (I/O/Z) [default] or McASP1 mute output (O/Z).
155	HD2/AFSX1	I/O/Z	Host-port data pin 2 (I/O/Z) [default] or McASP1 transmit frame sync or left/right clock (LRCLK) (I/O/Z).
152	HD1/AXR0[8]/AXR1[7]	I/O/Z	Host-port data pin 1 (I/O/Z) [default] or McASP0 TX/RX pin 8 (I/O/Z) or McASP1 TX/RX pin 7 (I/O/Z).
147	HD0/AXR0[11]/AXR1[4]	I/O/Z	Host-port data pin 0 (I/O/Z) [default] or McASP0 TX/RX pin 11 (I/O/Z) or McASP1 TX/RX pin 4 (I/O/Z).
135	HINT/GP0[1]	O/Z	Host interrupt (from DSP to host) (O) [default] or this pin can be programmed as a GP0 1 pin (I/O/Z).
144	HCNTL1/AXR0[14]/AXR1[1]	I	Host control - selects between control, address, or data registers (I) [default] or McASP0 TX/RX pin 14 (I/O/Z) or McASP1 TX/RX pin 1 (I/O/Z).
146	HCNTL0/AXR0[12]/AXR1[3]	I	Host control - selects between control, address, or data registers (I) [default] or McASP0 TX/RX pin 12 (I/O/Z) or McASP1 TX/RX pin 3 (I/O/Z).
139	HHWIL/AFSR1	I	Host half-word select - first or second half-word (not necessarily high or low order) (I) [default] or McASP1 receive frame sync or left/right clock (LRCLK) (I/O/Z).
143	HRW/AXR0[15]/AXR1[0]	I	Host read or write select (I) [default] or McASP0 TX/RX pin 15 (I/O/Z) or McASP1 TX/RX pin 0 (I/O/Z).

A

No.	Pin Name	I/O	Pin Function
153	HAS/ACLKX1	I	Host address strobe (I) [default] or McASP 1 transmit bit clock (I/O/Z).
145	HCS/AXR0[13]/AXR1[2]	I	Host chip select (I) [default] or McASP0 TX/RX pin 13 (I/O/Z) or McASP1 TX/RX pin 2 (I/O/Z).
151	HDS1/AXR0[9]/AXR1[6]	I	Host data strobe 1 (I) [default] or McASP0 TX/RX pin 9 (I/O/Z) or McASP1 TX/RX pin 6 (I/O/Z).
150	HDS2/AXR0[10]/AXR1[5]	I	Host data strobe 2 (I) [default] or McASP0 TX/RX pin 10 (I/O/Z) or McASP1 TX/RX pin 5 (I/O/Z).
140	HRDY/ACLKR1	O/Z	Host ready (from DSP to host) (O) [default] or McASP1 receive bit clock (I/O/Z).

EMIF - COMMON SIGNALS TO ALL TYPES OF MEMORY

B

57	CE3	O/Z	Memory space enables • Enabled by bits 28 through 31 of the word address • Only one asserted during any external data access
61	CE2	O/Z	
103	CE1	O/Z	
102	CE0	O/Z	
108	BE1	O/Z	Byte-enable control • Decoded from the two lowest bits of the internal address
110	BE0	O/Z	• Byte-write enables for most types of memory • Can be directly connected to SDRAM read and write mask signal (SDQM)

EMIF - BUS ARBITRATION

137	HOLDA	O/Z	Hold-request-acknowledge to the host
138	HOLD	I	Hold request from the host
136	BUSREQ	O/Z	Bus request output

EMIF - ASYNCHRONOUS/SYNCHRONOUS MEMORY CONTROL

C

78	ECLKIN	I	External EMIF input clock source
77	ECLKOUT	O/Z	EMIF output clock depends on the EKSRC bit (DEVCFG.[4]) and on EKEN bit (GBLCTL.[5]). EKSRC = 0 - ECLKOUT is based on the internal SYSCLK3 signal from the clock generator (default). EKSRC = 1 - ECLKOUT is based on the the external EMIF input clock source pin (ECLKIN) EKEN = 0 - ECLKOUT held low EKEN = 1 - ECLKOUT enabled to clock (default)
79	ARE/SDCAS/SSADS	O/Z	Asynchronous memory read enable/SDRAM column-address strobe/SBSRAM address strobe
75	AOE/SDRAS/SSOE	O/Z	Asynchronous memory output enable/SDRAM row-address strobe/SBSRAM output enable
83	AWE/SDWE/SSWE	O/Z	Asynchronous memory write enable/SDRAM write enable/SBSRAM write enable
56	ARDY	I	Asynchronous memory ready input

EMIF - ADDRESS

D

109	EA21	O/Z	External address (word, half-word, and byte address) The EMIF adjusts the address based on memory width:
101	EA20	O/Z	
100	EA19	O/Z	
95	EA18	O/Z	
99	EA17	O/Z	
92	EA16	O/Z	
94	EA15	O/Z	
90	EA14	O/Z	
91	EA13	O/Z	
93	EA12	O/Z	
86	EA11	O/Z	
76	EA10	O/Z	
74	EA9	O/Z	
71	EA8	O/Z	
70	EA7	O/Z	
69	EA6	O/Z	
68	EA5	O/Z	
64	EA4	O/Z	
63	EA3	O/Z	
62	EA2	O/Z	

F

No.	Pin Name	I/O	Pin Function
EMIF - DATA			
112	ED15/GP1[15]	I/O/Z	External data pins The ED15 - ED0 pins are muxed with general-purpose input/output 1 (GP1) pins. The EMIFDIS bit in the DEVCFG register controls the function of these muxed pins, EMIF is default.
113	ED14/GP1[14]	I/O/Z	
111	ED13/GP1[13]	I/O/Z	
118	ED12/GP1[12]	I/O/Z	
117	ED11/GP1[11]	I/O/Z	
120	ED10/GP1[10]	I/O/Z	
119	ED9/GP1[9]	I/O/Z	
123	ED8/GP1[8]	I/O/Z	
122	ED7/GP1[7]	I/O/Z	
121	ED6/GP1[6]	I/O/Z	
128	ED5/GP1[5]	I/O/Z	
127	ED4/GP1[4]	I/O/Z	
129	ED3/GP1[3]	I/O/Z	
130	ED2/GP1[2]	I/O/Z	
131	ED1/GP1[1]	I/O/Z	
132	ED0/GP1[0]	I/O/Z	
MULTICHANNEL AUDIO SERIAL PORT 1 (McASP1)			
1	GP0[4](EXT_INT4)/AMUTEIN1	I/O/Z	General-purpose input/output 0 pin 4 and external interrupt 4 (I/O/Z) [default] or McASP1 mute input (I/O/Z).
154	HD3/AMUTE1	I/O/Z	Host-port data pin 3 (I/O/Z) [default] or McASP1 mute output (O/Z).
140	HRDY/ACLKR1	I/O/Z	Host ready (from DSP to host) (O) [default] or McASP1 receive bit clock (I/O/Z).
161	HD6/AHCLKR1	I/O/Z	Host-port data pin 6 (I/O/Z) [default] or McASP1 receive high-frequency master clock (I/O/Z).
153	HAS/ACLKX1	I/O/Z	Host address strobe (I) [default] or McASP 1 transmit bit clock (I/O/Z).
159	HD5/AHCLKX1	I/O/Z	Host-port data pin 5 (I/O/Z) [default] or McASP1 transmit high-frequency master clock (I/O/Z).
139	HHWIL/AFSR1	I/O/Z	Host half-word select - first or second half-word (not necessarily high or low order) (I) [default] or McASP1 receive frame sync or left/right clock (LRCLK) (I/O/Z).
155	HD2/AFSX1	I/O/Z	Host-port data pin 2 (I/O/Z) [default] or McASP1 transmit frame sync or left/right clock (LRCLK) (I/O/Z).
27	DR0/AXR0[0]/AXR1[15]	I/O/Z	McBSP0 receive data (I) [default] or McASP0 TX/RX data pin 0 (I/O/Z) or McASP1 TX/RX data pin 15 (I/O/Z).
20	DX0/AXR0[1]/AXR1[14]	I/O/Z	McBSP0 transmit data (O/Z) [default] or McASP0 TX/RX data pin 1 (I/O/Z) or McASP1 TX/RX data pin 14 (I/O/Z).
18	TOUT0/AXR0[2]/AXR1[13]	I/O/Z	Timer 0 output (O) [default] or McASP0 TX/RX data pin 2 (I/O/Z) or McASP1 TX/RX data pin 13 (I/O/Z).
17	TINP0/AXR0[3]/AXR1[12]	I/O/Z	Timer 0 input (I) [default] or McASP0 TX/RX data pin 3 (I/O/Z) or McASP1 TX/RX data pin 12 (I/O/Z).
13	TOUT1/AXR0[4]/AXR1[11]	I/O/Z	Timer 1 output (O) [default] or McASP0 TX/RX data pin 4 (I/O/Z) or McASP1 TX/RX data pin 11 (I/O/Z).
32	DX1/AXR0[5]/AXR1[10]	I/O/Z	McBSP1 transmit data (O/Z) [default] or McASP0 TX/RX data pin 5 (I/O/Z) or McASP1 TX/RX data pin 10 (I/O/Z).
36	CLKR1/AXR0[6]/AXR1[9]	I/O/Z	McBSP1 receive clock (I/O/Z) [default] or McASP0 TX/RX data pin 6 (I/O/Z) or McASP1 TX/RX data pin 9 (I/O/Z).
38	FSR1/AXR0[7]/AXR1[8]	I/O/Z	McBSP1 receive frame sync (I/O/Z) [default] or McASP0 TX/RX data pin 7 (I/O/Z) or McASP1 TX/RX data pin 8 (I/O/Z).
152	HD1/AXR0[8]/AXR1[7]	I/O/Z	Host-port data pin 1 (I/O/Z) [default] or McASP0 TX/RX data pin 8 (I/O/Z) or McASP1 TX/RX data pin 7 (I/O/Z).
151	HDS1/AXR0[9]/AXR1[6]	I/O/Z	Host data strobe 1 (I) [default] or McASP0 TX/RX data pin 9 (I/O/Z) or McASP1 TX/RX data pin 6 (I/O/Z).
150	HDS2/AXR0[10]/AXR1[5]	I/O/Z	Host data strobe 2 (I) [default] or McASP0 TX/RX data pin 10 (I/O/Z) or McASP1 TX/RX data pin 5 (I/O/Z).
147	HD0/AXR0[11]/AXR1[4]	I/O/Z	Host-port data pin 0 (I/O/Z) [default] or McASP0 TX/RX data pin 11 (I/O/Z) or McASP1 TX/RX data pin 4 (I/O/Z).

A

No.	Pin Name	I/O	Pin Function
MULTICHANNEL AUDIO SERIAL PORT 1 (McASP1) (CONTINUED)			
146	HCNTL0/AXR0[12]/AXR1[3]	I/O/Z	Host control - selects between control, address, or data registers (I) [default] or McASP0 TX/RX data pin 12 (I/O/Z) or McASP1 TX/RX data pin 3 (I/O/Z).
145	HCS/AXR0[13]/AXR1[2]	I/O/Z	Host chip select (I) [default] or McASP0 TX/RX data pin 13 (I/O/Z) or McASP1 TX/RX data pin 2 (I/O/Z).
144	HCNTL1/AXR0[14]/AXR1[1]	I/O/Z	Host control - selects between control, address, or data registers (I) [default] or McASP0 TX/RX data pin 14 (I/O/Z) or McASP1 TX/RX data pin 1 (I/O/Z).
143	HR/W/AXR0[15]/AXR1[0]	I/O/Z	Host read or write select (I) [default] or McASP1 TX/RX data pin 0 (I/O/Z) or McASP0 TX/RX data pin 15 (I/O/Z).
MULTICHANNEL AUDIO SERIAL PORT 0 (McASP0)			
6	GP0[5](EXT_INT5)/AMUTEIN0	I/O/Z	General-purpose input/output 0 pin 5 and external interrupt 5 (I/O/Z) [default] or McASP0 mute input (I/O/Z).
33	CLKX1/AMUTE0	I/O/Z	McBSP1 transmit clock (I/O/Z) [default] or McASP0 mute output (O/Z).
19	CLKR0/ACLKR0	I/O/Z	McBSP0 receive clock (I/O/Z) [default] or McASP0 receive bit clock (I/O/Z).
12	TINP1/AHCLKX0	I/O/Z	Timer 1 input (I) [default] or McBSP0 transmit high-frequency master clock (I/O/Z).
16	CLKX0/ACLKX0	I/O/Z	McBSP0 transmit clock (I/O/Z) [default] or McASP0 transmit bit clock (I/O/Z).
28	CLKS0/AHCLKR0	I/O/Z	McBSP0 external clock source (as opposed to internal) (I) [default] or McASP0 receive high-frequency master clock (I/O/Z).
24	FSR0/AFSR0	I/O/Z	McBSP0 receive frame sync (I/O/Z) [default] or McASP0 receive frame sync or left/right clock (LRCLK) (I/O/Z).
21	FSX0/AFSX0	I/O/Z	McBSP0 transmit frame sync (I/O/Z) [default] or McASP0 transmit frame sync or left/right clock (LRCLK) (I/O/Z).
27	DR0/AXR0[0]/AXR1[15]	I/O/Z	McBSP0 receive data (I) [default] or McASP0 TX/RX data pin 0 (I/O/Z) or McASP1 TX/RX data pin 15 (I/O/Z).
20	DX0/AXR0[1]/AXR1[14]	I/O/Z	McBSP0 transmit data (O/Z) [default] or McASP0 TX/RX data pin 1 (I/O/Z) or McASP1 TX/RX data pin 14 (I/O/Z).
18	TOUT0/AXR0[2]/AXR1[13]	I/O/Z	Timer 0 output (O) [default] or McASP0 TX/RX data pin 2 (I/O/Z) or McASP1 TX/RX data pin 13 (I/O/Z).
17	TINP0/AXR0[3]/AXR1[12]	I/O/Z	Timer 0 input (I) [default] or McASP0 TX/RX data pin 3 (I/O/Z) or McASP1 TX/RX data pin 12 (I/O/Z).
13	TOUT1/AXR0[4]/AXR1[11]	I/O/Z	Timer 1 output (O) [default] or McASP0 TX/RX data pin 4 (I/O/Z) or McASP1 TX/RX data pin 11 (I/O/Z).
32	DX1/AXR0[5]/AXR1[10]	I/O/Z	McBSP1 transmit data (O/Z) [default] or McASP0 TX/RX data pin 5 (I/O/Z) or McASP1 TX/RX data pin 10 (I/O/Z).
36	CLKR1/AXR0[6]/AXR1[9]	I/O/Z	McBSP1 receive clock (I/O/Z) [default] or McASP0 TX/RX data pin 6 (I/O/Z) or McASP1 TX/RX data pin 9 (I/O/Z).
38	FSR1/AXR0[7]/AXR1[8]	I/O/Z	McBSP1 receive frame sync (I/O/Z) [default] or McASP0 TX/RX data pin 7 (I/O/Z) or McASP1 TX/RX data pin 8 (I/O/Z).
152	HD1/AXR0[8]/AXR1[7]	I/O/Z	Host-port data pin 1 (I/O/Z) [default] or McASP0 TX/RX data pin 8 (I/O/Z) or McASP1 TX/RX data pin 7 (I/O/Z).
MULTICHANNEL AUDIO SERIAL PORT 0 (McASP0) (CONTINUED)			
151	HDS1/AXR0[9]/AXR1[6]	I/O/Z	Host data strobe 1 (I) [default] or McASP0 TX/RX data pin 9 (I/O/Z) or McASP1 TX/RX data pin 6 (I/O/Z).
150	HDS2/AXR0[10]/AXR1[5]	I/O/Z	Host data strobe 2 (I) [default] or McASP0 TX/RX data pin 10 (I/O/Z) or McASP1 TX/RX data pin 5 (I/O/Z).
147	HD0/AXR0[11]/AXR1[4]	I/O/Z	Host-port data pin 0 (I/O/Z) [default] or McASP0 TX/RX data pin 11 (I/O/Z) or McASP1 TX/RX data pin 4 (I/O/Z).
146	HCNTL0/AXR0[12]/AXR1[3]	I/O/Z	Host control - selects between control, address, or data registers (I) [default] or McASP0 TX/RX data pin 12 (I/O/Z) or McASP1 TX/RX data pin 3 (I/O/Z).
145	HCS/AXR0[13]/AXR1[2]	I/O/Z	Host chip select (I) [default] or McASP0 TX/RX data pin 13 (I/O/Z) or McASP1 TX/RX data pin 2 (I/O/Z).
144	HCNTL1/AXR0[14]/AXR1[1]	I/O/Z	Host control - selects between control, address, or data registers (I) [default] or McASP0 TX/RX data pin 14 (I/O/Z) or McASP1 TX/RX data pin 1 (I/O/Z).
143	HR/W/AXR0[15]/AXR1[0]	I/O/Z	Host read or write select (I) [default] or McASP0 TX/RX data pin 15 (I/O/Z) or McASP1 TX/RX data pin 0 (I/O/Z).

F

No.	Pin Name	I/O	Pin Function
TIMER 1			
13	TOUT1/AXR0[4]/AXR1[11]	O	Timer 1 output (O) [default] or McASP0 TX/RX data pin 4 (I/O/Z) or McASP1 TX/RX data pin 11 (I/O/Z).
12	TINP1/AHCLKX0	I	Timer 1 input (I) [default] or McBSP0 transmit high-frequency master clock (I/O/Z).
TIMER0			
18	TOUT0/AXR0[2]/AXR1[13]	O	Timer 0 output (O) [default] or McASP0 TX/RX data pin 2 (I/O/Z) or McASP1 TX/RX data pin 13 (I/O/Z).
17	TINP0/AXR0[3]/AXR1[12]	I	Timer 0 input (I) [default] or McASP0 TX/RX data pin 3 (I/O/Z) or McASP1 TX/RX data pin 12 (I/O/Z).
MULTICHANNEL BUFFERED SERIAL PORT 1 (McBSP1)			
8	CLKS1/SCL1	I	McBSP1 external clock source (as opposed to internal) (I) [default] or I2C1 clock (I/O/Z).
36	CLKR1/AXR0[6]/AXR1[9]	I/O/Z	McBSP1 receive clock (I/O/Z) [default] or McASP0 TX/RX data pin 6 (I/O/Z) or McASP1 TX/RX data pin 9 (I/O/Z).
33	CLKX1/AMUTE0	I/O/Z	McBSP1 transmit clock (I/O/Z) [default] or McASP0 mute output (O/Z).
37	DR1/SDA1	I	McBSP1 receive data (I) [default] or I2C1 data (I/O/Z).
32	DX1/AXR0[5]/AXR1[10]	O/Z	McBSP1 transmit data (O/Z) [default] or McASP0 TX/RX data pin 5 (I/O/Z) or McASP1 TX/RX data pin 10 (I/O/Z).
38	FSR1/AXR0[7]/AXR1[8]	I/O/Z	McBSP1 receive frame sync (I/O/Z) [default] or McASP0 TX/RX data pin 7 (I/O/Z) or McASP1 TX/RX data pin 8 (I/O/Z).
31	FSX1	I/O/Z	McBSP1 transmit frame sync
MULTICHANNEL BUFFERED SERIAL PORT 0 (McBSP0)			
28	CLKS0/AHCLKR0	I	McBSP0 external clock source (as opposed to internal) (I) [default] or McASP0 receive high-frequency master clock (I/O/Z).
19	CLKR0/ACLKR0	I/O/Z	McBSP0 receive clock (I/O/Z) [default] or McASP0 receive bit clock (I/O/Z).
16	CLKX0/ACLKX0	I/O/Z	McBSP0 transmit clock (I/O/Z) [default] or McASP0 transmit bit clock (I/O/Z).
27	DR0/AXR0[0]/AXR1[15]	I	McBSP0 receive data (I) [default] or McASP0 TX/RX data pin 0 (I/O/Z) or McASP1 TX/RX data pin 15 (I/O/Z).
20	DX0/AXR0[1]/AXR1[14]	O/Z	McBSP0 transmit data (O/Z) [default] or McASP0 TX/RX data pin 1 (I/O/Z) or McASP1 TX/RX data pin 14 (I/O/Z).
24	FSR0/AFSR0	I/O/Z	McBSP0 receive frame sync (I/O/Z) [default] or McASP0 receive frame sync or left/right clock (LRCLK) (I/O/Z).
21	FSX0/AFSX0	I/O/Z	McBSP0 transmit frame sync (I/O/Z) [default] or McASP0 transmit frame sync or left/right clock (LRCLK) (I/O/Z).
INTER-INTEGRATED CIRCUIT 1 (I2C1)			
8	CLKS1/SCL1	I/O/Z	McBSP1 external clock source (as opposed to internal) (I) [default] or I2C1 clock (I/O/Z).
37	DR1/SDA1	I/O/Z	McBSP1 receive data (I) [default] or I2C1 data (I/O/Z).
INTER-INTEGRATED CIRCUIT 0 (I2C0)			
41	SCL0	I/O/Z	I2C0 clock
42	SDA0	I/O/Z	I2C0 data
GENERAL-PURPOSE INPUT/OUTPUT 0 (GP0)			
174	HD15/GP0[15]	I/O/Z	Host-port data pin 15 (I/O/Z) [default] or this pin can be programmed as a GP0 15 pin (I/O/Z).
173	HD14/GP0[14]	I/O/Z	
172	HD13/GP0[13]	I/O/Z	
168	HD12/GP0[12]	I/O/Z	
167	HD11/GP0[11]	I/O/Z	
166	HD10/GP0[10]	I/O/Z	
165	HD9/GP0[9]	I/O/Z	
160	HD8/GP0[8]	I/O/Z	
7	GP0[7](EXT_INT7)	I/O/Z	
2	GP0[6](EXT_INT6)	I/O/Z	General-purpose input/output 0 pins (I/O/Z) which also function as external interrupts [default] • Edge-driven • Polarity independently selected via the External Interrupt Polarity Register bits (EXTPOL[3:0]) GP0[4] and GP0[5] pins also function as AMUTEIN1 McASP1 mute input and AMUTEIN0 McASP0 mute input, respectively.
6	GP0[5](EXT_INT5)/AMUTEIN0	I/O/Z	
1	GP0[4](EXT_INT4)/AMUTEIN1	I/O/Z	

A

No.	Pin Name	I/O	Pin Function
164	HD7/GP0[3]	I/O/Z	Host-port data pin 7 (I/O/Z) [default] or general-purpose input/output 0 pin 3 (I/O/Z)
82	CLKOUT2/GP0[2]	I/O/Z	Clock output at half of device speed (O/Z) [default] or this pin can be programmed as GP0[2] pin.
135	HINT/GP0[1]	I/O/Z	Host interrupt (from DSP to host) (O) [default] or this pin can be programmed as a GP0 1 pin (I/O/Z).
156	HD4/GP0[0]	I/O/Z	Host-port data pin 4 (I/O/Z) [default] or this pin can be programmed as a GP0 0 pin (I/O/Z) and is external interrupt capable through interrupt sharing.
GENERAL-PURPOSE INPUT/OUTPUT 1 (GP1)			
112	ED15/GP1[15]	I/O/Z	The ED15 - ED0 pins are muxed with general-purpose input/outut 1 (GP1) pins.
113	ED14/GP1[14]	I/O/Z	
111	ED13/GP1[13]	I/O/Z	
118	ED12/GP1[12]	I/O/Z	
117	ED11/GP1[11]	I/O/Z	
120	ED10/GP1[10]	I/O/Z	
119	ED9/GP1[9]	I/O/Z	
123	ED8/GP1[8]	I/O/Z	
122	ED7/GP1[7]	I/O/Z	
121	ED6/GP1[6]	I/O/Z	
128	ED5/GP1[5]	I/O/Z	
127	ED4/GP1[4]	I/O/Z	
129	ED3/GP1[3]	I/O/Z	
130	ED2/GP1[2]	I/O/Z	
131	ED1/GP1[1]	I/O/Z	
132	ED0/GP1[0]	I/O/Z	
RESERVED FOR TEST			
200	RSV	A	Reserved. (Leave unconnected, do not connect to power or ground.)
203	RSV	I	Reserved. (This pin must be connected to ground.)
198	RSV	O/Z	Reserved. (Leave unconnected, do not connect to power or ground.)
SUPPLY VOLTAGE PINS			
5	DVDD	S	3.3V supply voltage
9	DVDD	S	3.3V supply voltage
25	DVDD	S	3.3V supply voltage
44	DVDD	S	3.3V supply voltage
47	DVDD	S	3.3V supply voltage
55	DVDD	S	3.3V supply voltage
58	DVDD	S	3.3V supply voltage
65	DVDD	S	3.3V supply voltage
72	DVDD	S	3.3V supply voltage
84	DVDD	S	3.3V supply voltage
87	DVDD	S	3.3V supply voltage
98	DVDD	S	3.3V supply voltage
107	DVDD	S	3.3V supply voltage
114	DVDD	S	3.3V supply voltage
126	DVDD	S	3.3V supply voltage
141	DVDD	S	3.3V supply voltage
162	DVDD	S	3.3V supply voltage
183	DVDD	S	3.3V supply voltage
188	DVDD	S	3.3V supply voltage
206	DVDD	S	3.3V supply voltage
3	CVDD	S	3.3V supply voltage
11	CVDD	S	3.3V supply voltage

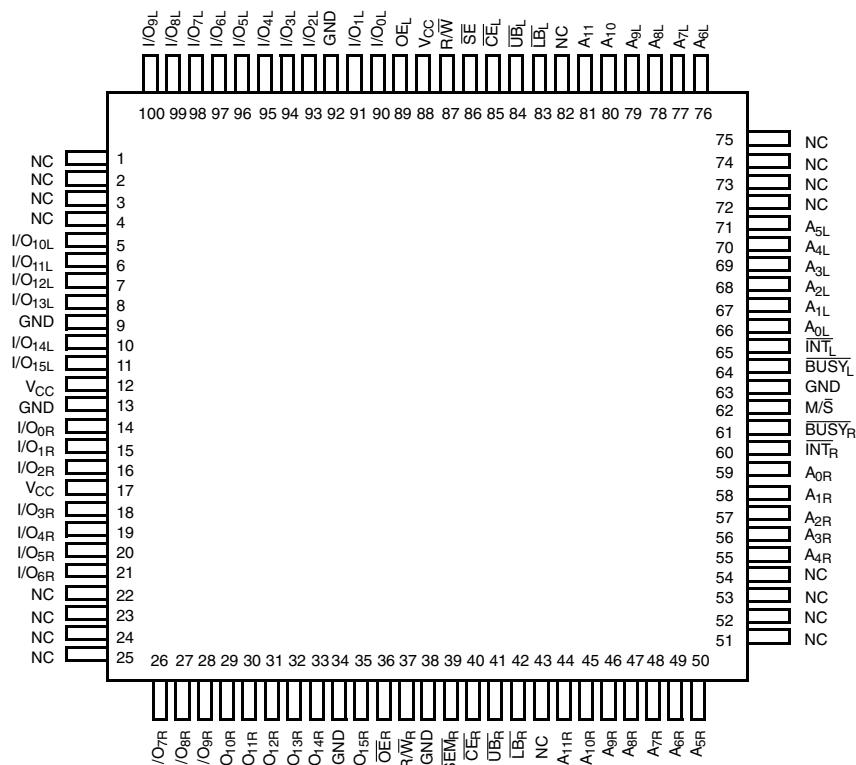
F

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
SUPPLY VOLTAGE PINS				GROUND PINS			
14	CVDD	S	1.2V supply voltage	4	VSS	GND	Ground
22	CVDD	S	1.2V supply voltage	10	VSS	GND	Ground
29	CVDD	S	1.2V supply voltage	15	VSS	GND	Ground
35	CVDD	S	1.2V supply voltage	23	VSS	GND	Ground
40	CVDD	S	1.2V supply voltage	26	VSS	GND	Ground
43	CVDD	S	1.2V supply voltage	30	VSS	GND	Ground
46	CVDD	S	1.2V supply voltage	34	VSS	GND	Ground
50	CVDD	S	1.2V supply voltage	39	VSS	GND	Ground
51	CVDD	S	1.2V supply voltage	45	VSS	GND	Ground
53	CVDD	S	1.2V supply voltage	48	VSS	GND	Ground
60	CVDD	S	1.2V supply voltage	49	VSS	GND	Ground
67	CVDD	S	1.2V supply voltage	52	VSS	GND	Ground
80	CVDD	S	1.2V supply voltage	54	VSS	GND	Ground
89	CVDD	S	1.2V supply voltage	59	VSS	GND	Ground
96	CVDD	S	1.2V supply voltage	66	VSS	GND	Ground
104	CVDD	S	1.2V supply voltage	73	VSS	GND	Ground
105	CVDD	S	1.2V supply voltage	81	VSS	GND	Ground
116	CVDD	S	1.2V supply voltage	85	VSS	GND	Ground
124	CVDD	S	1.2V supply voltage	88	VSS	GND	Ground
133	CVDD	S	1.2V supply voltage	97	VSS	GND	Ground
149	CVDD	S	1.2V supply voltage	106	VSS	GND	Ground
157	CVDD	S	1.2V supply voltage	115	VSS	GND	Ground
169	CVDD	S	1.2V supply voltage	125	VSS	GND	Ground
171	CVDD	S	1.2V supply voltage	134	VSS	GND	Ground
177	CVDD	S	1.2V supply voltage	142	VSS	GND	Ground
190	CVDD	S	1.2V supply voltage	148	VSS	GND	Ground
195	CVDD	S	1.2V supply voltage	158	VSS	GND	Ground
196	CVDD	S	1.2V supply voltage	163	VSS	GND	Ground
201	CVDD	S	1.2V supply voltage	170	VSS	GND	Ground
208	CVDD	S	1.2V supply voltage	182	VSS	GND	Ground
				189	VSS	GND	Ground
				194	VSS	GND	Ground
				199	VSS	GND	Ground
				207	VSS	GND	Ground

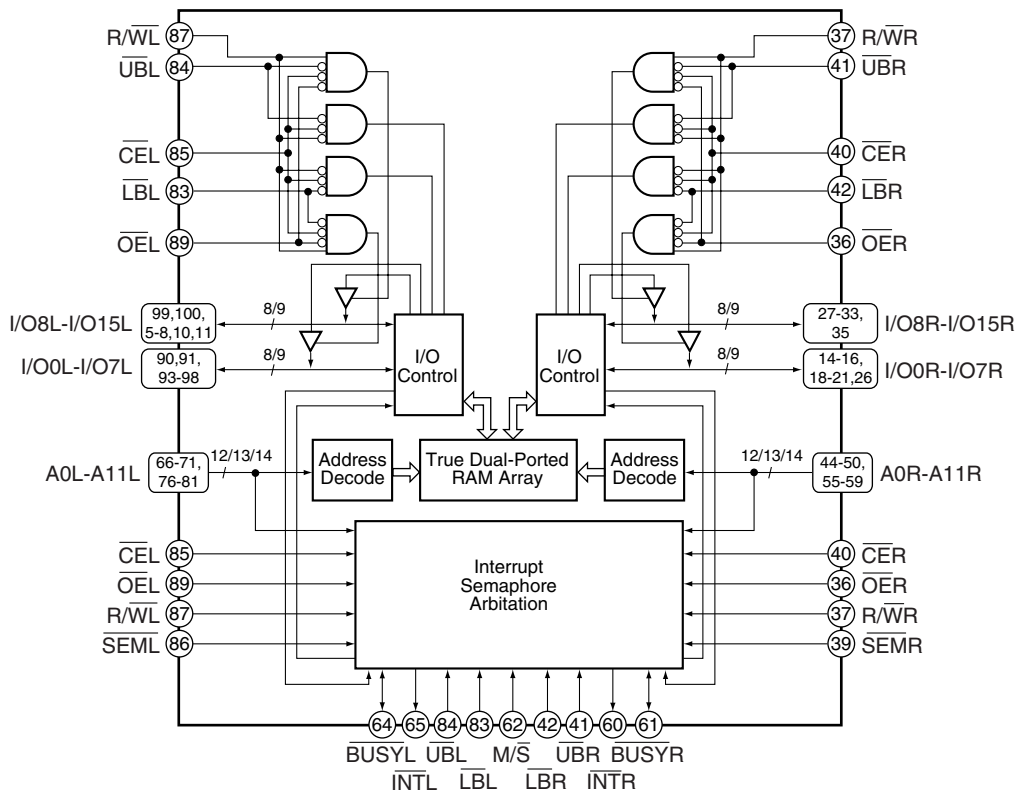
CY7C024AV-25AXC-K (DIGITAL MAIN ASSY : IC22)

• Dual-Port Static RAM

Pin Arrangement (Top view)



Block Diagram



● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	NC	–	No connect	41	UBR	I	Upper byte select input
2	NC	–	No connect	42	LBR	I	Lower byte select input
3	NC	–	No connect	43	NC	–	No connect
4	NC	–	No connect	44	A11R	I	Address input
5	I/O10L	I/O	Data bus input/output	45	A10R	I	Address input
6	I/O11L	I/O	Data bus input/output	46	A9R	I	Address input
7	I/O12L	I/O	Data bus input/output	47	A8R	I	Address input
8	I/O13L	I/O	Data bus input/output	48	A7R	I	Address input
9	GND	–	Ground	49	A6R	I	Address input
10	I/O14L	I/O	Data bus input/output	50	A5R	I	Address input
11	I/O15L	I/O	Data bus input/output	51	NC	–	No connect
12	VCC	–	Power supply	52	NC	–	No connect
13	GND	–	Ground	53	NC	–	No connect
14	I/O0R	I/O	Data bus input/output	54	NC	–	No connect
15	I/O1R	I/O	Data bus input/output	55	A4R	I	Address input
16	I/O2R	I/O	Data bus input/output	56	A3R	I	Address input
17	VCC	–	Power supply	57	A2R	I	Address input
18	I/O3R	I/O	Data bus input/output	58	A1R	I	Address input
19	I/O4R	I/O	Data bus input/output	59	A0R	I	Address input
20	I/O5R	I/O	Data bus input/output	60	INTR	O	Interrupt flag output
21	I/O6R	I/O	Data bus input/output	61	BUSYR	I/O	Busy flag input/output
22	NC	–	No connect	62	M/S	–	Master or slave select
23	NC	–	No connect	63	GND	–	Ground
24	NC	–	No connect	64	BUSYL	I/O	Busy flag input/output
25	NC	–	No connect	65	INTL	O	Interrupt flag output
26	I/O7R	I/O	Data bus input/output	66	A0L	I	Address input
27	I/O8R	I/O	Data bus input/output	67	A1L	I	Address input
28	I/O9R	I/O	Data bus input/output	68	A2L	I	Address input
29	I/O10R	I/O	Data bus input/output	69	A3L	I	Address input
30	I/O11R	I/O	Data bus input/output	70	A4L	I	Address input
31	I/O12R	I/O	Data bus input/output	71	A5L	I	Address input
32	I/O13R	I/O	Data bus input/output	72	NC	–	No connect
33	I/O14R	I/O	Data bus input/output	73	NC	–	No connect
34	GND	–	Ground	74	NC	–	No connect
35	I/O15R	I/O	Data bus input/output	75	NC	–	No connect
36	ÖER	I	Output enable input	76	A6L	I	Address input
37	R/WR	I	Read/Write enable input	77	A7L	I	Address input
38	GND	–	Ground	78	A8L	I	Address input
39	SEMR	I	Semaphore enable input	79	A9L	I	Address input
40	CER	I	Chip enable input	80	A10L	I	Address input

A

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
81	A11L	I	Address input	91	I/O1L	I/O	Data bus input/output
82	NC	–	No connect	92	GND	–	Ground
83	$\overline{\text{LBL}}$	I	Lower byte select input	93	I/O2L	I/O	Data bus input/output
84	$\overline{\text{UBL}}$	I	Upper byte select input	94	I/O3L	I/O	Data bus input/output
85	$\overline{\text{CEL}}$	I	Chip enable input	95	I/O4L	I/O	Data bus input/output
86	$\overline{\text{SEML}}$	I	Semaphore enable input	96	I/O5L	I/O	Data bus input/output
87	$\overline{\text{R/WL}}$	I	Read/Write enable input	97	I/O6L	I/O	Data bus input/output
88	VCC	–	Power supply	98	I/O7L	I/O	Data bus input/output
89	$\overline{\text{OEL}}$	I	Output enable input	99	I/O8L	I/O	Data bus input/output
90	I/O0L	I/O	Data bus input/output	100	I/O9L	I/O	Data bus input/output

B

C

D

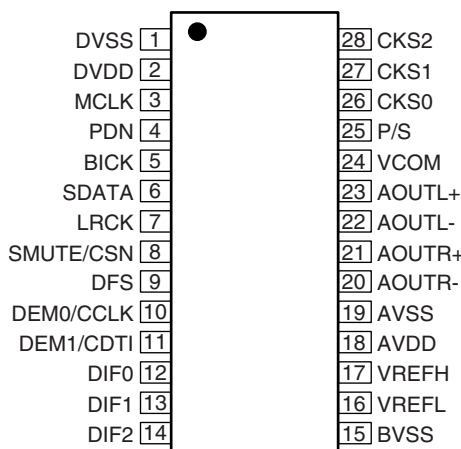
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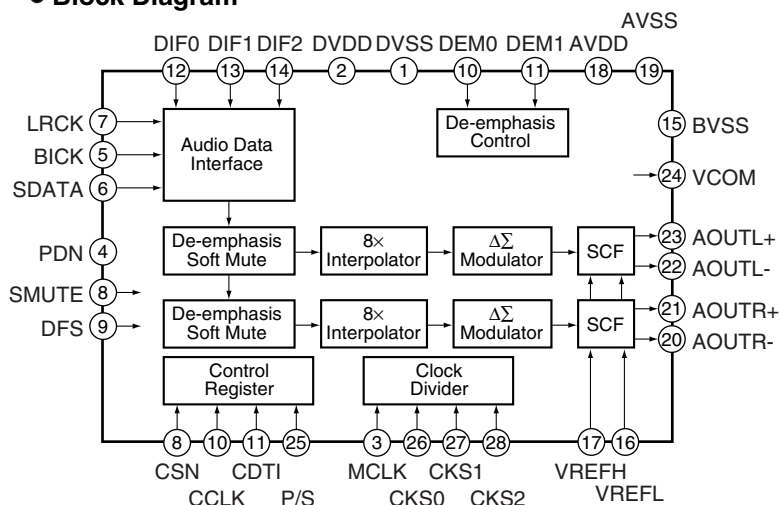
**AK4393VF (MASTER ASSY : IC331)
(BOOTH/REC ASSY : IC201, IC202)
(SEND/RETURN ASSY : IC501)**

• Advanced Multi-Bit 96kHz 24bit $\Delta\Sigma$ DAC

● Pin Arrangement (Top view)



● Block Diagram



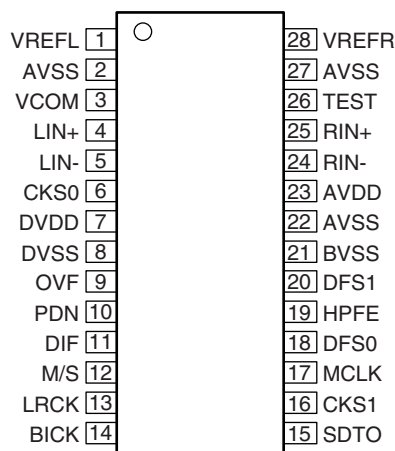
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	DVSS	–	Digital Ground Pin	14	DIF2	I	Digital Input Format Pin
2	DVDD	–	Digital Power Supply Pin, 3.3V or 5.0V	15	BVSS	–	Substrate Ground Pin, 0V
3	MCLK	I	Master Clock Input Pin	16	VREFL	I	Low Level Voltage Reference Input Pin
4	PDN	I	Power-Down Mode Pin When at "L", the AK4393 is in power-down mode and is held in reset. The AK4393 should always be reset upon power-up.	17	VREFH	I	High Level Voltage Reference Input Pin
5	BICK	I	Audio Serial Data Clock Pin The clock of 64fs or more than is recommended to be input on this pin.	18	AVDD	–	Analog Power Supply Pin, 5.0V
6	SDATA	I	Audio Serial Data Input Pin 2's complement MSB-first data is input on this pin.	19	AVSS	–	Analog Ground Pin, 0V
7	LRCK	I	L/R Clock Input	20	AOUTR-	O	Rch Negative analog output Pin
8	SMUTE	I	Soft Mute Pin in parallel mode When this pin goes "H", soft mute cycle is initiated. When returning "L", the output mute releases.	21	AOUTR+	O	Rch Positive analog output Pin
	CSN	I	Chip Select Pin in serial mode	22	AOUTL-	O	Lch Negative analog output Pin
9	DFS0	I	Double speed sampling mode Pin (Internal pull-down pin) "L": Normal Speed, "H": Double Speed	23	AOUTL+	O	Lch Positive analog output Pin
10	DEM0	I	De-emphasis Enable Pin in parallel mode	24	VCOM	O	Common Voltage Output Pin, 2.6V
	CCLK	I	Control Data Clock Pin in serial mode	25	P/S	I	Parallel/Serial Select Pin (Internal pull-up pin) "L": Serial control mode, "H": Parallel control mode
11	DEM1	I	De-emphasis Enable Pin in parallel mode	26	CKS0	I	Master Clock Select Pin
	CDTI	I	Control Data Input Pin in serial mode	27	CKS1	I	Master Clock Select Pin
12	DIF0	I	Digital Input Format Pin	28	CKS2	I	Master Clock Select Pin
13	DIF1	I	Digital Input Format Pin				

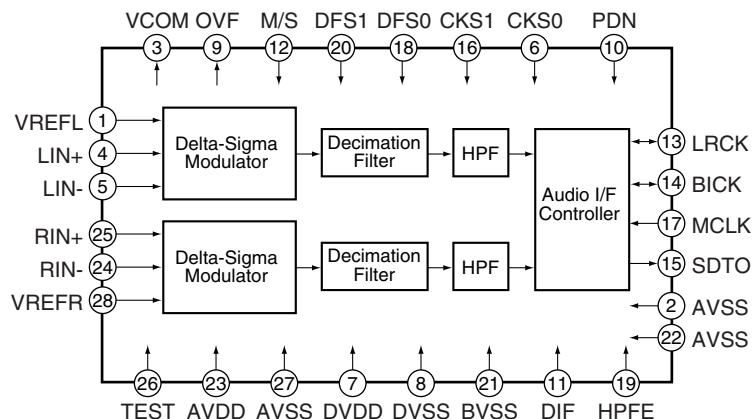
AK5385VS (BUS1 ASSY : IC505) **(SEND/RETURN ASSY : IC503)**

• 24Bit 192kHz $\Delta\Sigma$ ADC

● Pin Arrangement (Top view)



● Block Diagram



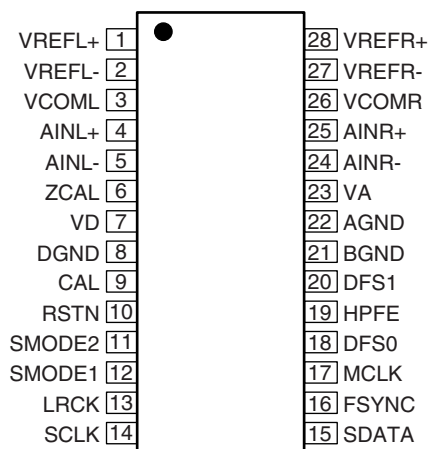
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VREFL	I	Lch Voltage Reference Input Pin, AVDD	15	SDTO	O	Audio Serial Data Output Pin "L" Output at Power-down mode.
2	AVSS	—	Analog Ground Pin	16	CKS1	I	Master Clock Select 1 Pin (Internal Pull-down Pin, typ. 100k Ω)
3	VCOM	O	Common Voltage Output Pin, AVDD/2	17	MCLK	I	Master Clock Input Pin
4	LIN+	I	Lch Analog Positive Input Pin	18	DFS0	I	Sampling Speed Select 0 Pin
5	LIN-	I	Lch Analog Negative Input Pin	19	HPFE	I	High Pass Filter Enable Pin "H" : Enable, "L" : Disable
6	CKS0	I	Master Clock Select 0 Pin (Internal Pull-down Pin, typ. 100k Ω)	20	DFS1	I	Sampling Speed Select 1 Pin
7	DVDD	—	Digital Power Supply Pin, 3.0 - 5.25V	21	BVSS	—	Substrate Ground Pin
8	DVSS	—	Digital Ground Pin	22	AVSS	—	Analog Ground Pin
9	OVF	O	Analog Input Overflow Detect Pin This pin goes to "H" if analog input overflows.	23	AVDD	—	Analog Power Supply Pin, 4.75 - 5.25V
10	PDN	I	Power Down Mode Pin "H": Power up, "L": Power down	24	RIN-	I	Rch Analog Negative Input Pin
11	DIF	I	Audio Interface Format Pin "H" : 24bit I2S Compatible, "L" : 24bit MSB justified	25	RIN+	I	Rch Analog Positive Input Pin
12	M/S	I	Master / Slave Mode Pin "H" : Master Mode, "L" : Slave Mode	26	TEST	I	Test Pin (Internal Pull-down Pin, typ. 100k Ω)
13	LRCK	I/O	Output Channel Clock Pin "L" Output in Master Mode at Power-down mode.	27	AVSS	—	Analog Ground Pin
14	BICK	I/O	Audio Serial Data Clock Pin "L" Output in Master Mode at Power-down mode.	28	VREFR	I	Rch Voltage Reference Input Pin, AVDD

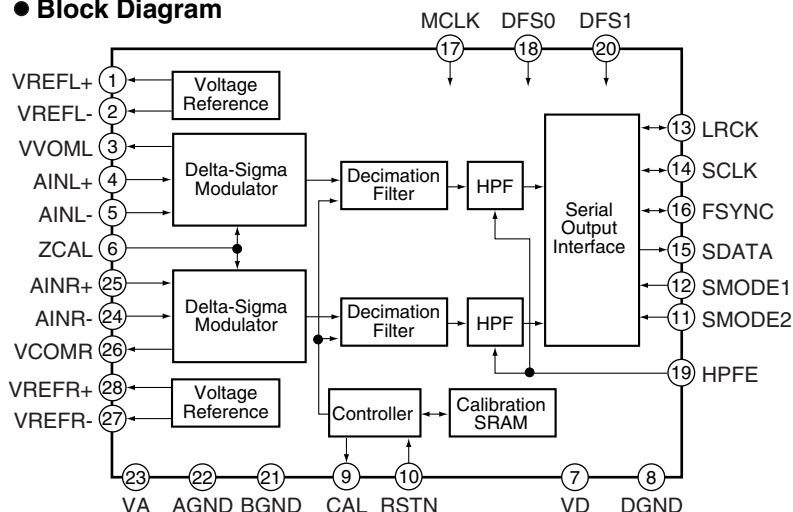
■ **AK5394AVS (CH1/CH2 INPUT ASSY : IC301)**
(CH3/CH4 INPUT ASSY : IC601)
(CH5/CH6 INPUT ASSY : IC409)

• 192kHz 24-BIT $\Delta\Sigma$ ADC

● **Pin Arrangement (Top view)**



● **Block Diagram**



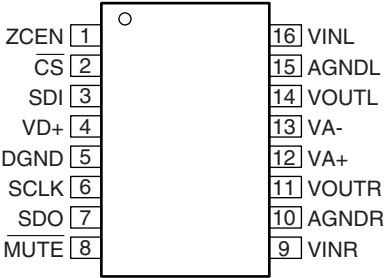
● **Pin Function**

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function																				
1	VREFL+	O	Lch Positive Reference Voltage, 3.75V	15	SDATA	O	Serial Data Output Pin																				
2	VREFL-	O	Lch Negative Reference Voltage, 1.25V	16	FSYNC	I/O	Frame Synchronization Signal Pin																				
3	VCOML	O	Lch Common Voltage Pin, 2.75V	17	MCLK	I	Master Clock Input Pin <table border="1"><tr><td>DFS1</td><td>DFS0</td><td>MCLK</td><td>fs(typ)</td></tr><tr><td>L</td><td>L</td><td>256fs</td><td>48kHz</td></tr><tr><td>L</td><td>H</td><td>128fs</td><td>96kHz</td></tr><tr><td>H</td><td>L</td><td>64fs</td><td>192kHz</td></tr><tr><td>H</td><td>H</td><td>N/A</td><td>N/A</td></tr></table>	DFS1	DFS0	MCLK	fs(typ)	L	L	256fs	48kHz	L	H	128fs	96kHz	H	L	64fs	192kHz	H	H	N/A	N/A
DFS1	DFS0	MCLK	fs(typ)																								
L	L	256fs	48kHz																								
L	H	128fs	96kHz																								
H	L	64fs	192kHz																								
H	H	N/A	N/A																								
4	AINL+	I	Lch Analog positive input Pin	18	DFS0	I	Sampling Speed Select Pin 0 <table border="1"><tr><td>DFS1</td><td>DFS0</td><td>Sampling Speed</td><td>fs(typ)</td></tr><tr><td>L</td><td>L</td><td>Normal</td><td>48kHz</td></tr><tr><td>L</td><td>H</td><td>Double</td><td>96kHz</td></tr><tr><td>H</td><td>L</td><td>Quad</td><td>192kHz</td></tr><tr><td>H</td><td>H</td><td>N/A</td><td>N/A</td></tr></table>	DFS1	DFS0	Sampling Speed	fs(typ)	L	L	Normal	48kHz	L	H	Double	96kHz	H	L	Quad	192kHz	H	H	N/A	N/A
DFS1	DFS0	Sampling Speed	fs(typ)																								
L	L	Normal	48kHz																								
L	H	Double	96kHz																								
H	L	Quad	192kHz																								
H	H	N/A	N/A																								
5	AINL-	I	Lch Analog negative input Pin	19	HPFE	I	HPF Enable Pin "L": Disable "H": Enable																				
6	ZCAL	I	Zero Calibration Control Pin	20	DFS1	I	Sampling Speed Select Pin 1 (see pin 18 DFS0)																				
7	VD	–	Digital Power Supply Pin, 3.3V	21	BGND	–	Substrate Ground Pin, 0V																				
8	DGND	–	Digital Ground Pin, 0V	22	AGND	–	Analog Ground Pin, 0V																				
9	CAL	O	Calibration Active Signal Pin	23	VA	–	Analog Supply Pin, 5V																				
10	RSTN	I	Reset Pin	24	AINR-	I	Rch Analog negative input Pin																				
11	SMODE2	I	Serial Interface Mode Select Pin	25	AINR+	I	Rch Analog positive input Pin																				
12	SMODE1	I	<table><tr><td>SMODE2</td><td>SMODE1</td><td>MODE</td><td>LRCK</td></tr><tr><td>L</td><td>L</td><td>Slave mode : MSB justified</td><td>: H/L</td></tr><tr><td>L</td><td>H</td><td>Master mode : Similar to I2S</td><td>: H/L</td></tr><tr><td>H</td><td>L</td><td>Slave mode : I2S</td><td>: L/H</td></tr><tr><td>H</td><td>H</td><td>Master mode : I2S</td><td>: L/H</td></tr></table>	SMODE2	SMODE1	MODE	LRCK	L	L	Slave mode : MSB justified	: H/L	L	H	Master mode : Similar to I2S	: H/L	H	L	Slave mode : I2S	: L/H	H	H	Master mode : I2S	: L/H	26	VCOMR	O	Rch Common Voltage Pin, 2.75V
SMODE2	SMODE1	MODE	LRCK																								
L	L	Slave mode : MSB justified	: H/L																								
L	H	Master mode : Similar to I2S	: H/L																								
H	L	Slave mode : I2S	: L/H																								
H	H	Master mode : I2S	: L/H																								
13	LRCK	I/O	Left/Right Channel Select Clock Pin	27	VREFR-	O	Rch Negative Reference Voltage, 1.25V																				
14	SCLK	I/O	Serial Data Clock Pin	28	VREFR+	O	Rch Positive Reference Voltage, 3.75V																				

■ **PGA2310UA (MASTER ASSY : IC332)**
• Stereo Audio Volume Control

A

● **Pin Arrangement (Top view)**



B

● **Pin Function**

No.	Pin Name	I/O	Pin Function
1	ZCEN	I	Zero Crossing Enable Input (Active High)
2	$\overline{\text{CS}}$	I	Chip Select Input (Active Low)
3	SDI	I	Serial Data input
4	VD+	–	Digital Power Supply, +5V
5	DGND	–	Digital Ground
6	SCLK	I	Serial Clock Input
7	SDO	O	Serial Data Output
8	$\overline{\text{MUTE}}$	I	Mute Control Input (Active Low)
9	VINR	I	Analog Input, Right Channel
10	AGNDR	–	Analog Ground, Right Channel
11	VOUTR	O	Analog Output, Right Channel
12	VA+	–	Analog Power Supply, +15V
13	VA-	–	Analog Power Supply, -15V
14	VOUTL	O	Analog Output, Left Channel
15	AGNDL	–	Analog Ground, Left Channel
16	VINL	I	Analog Input, Left Channel

C

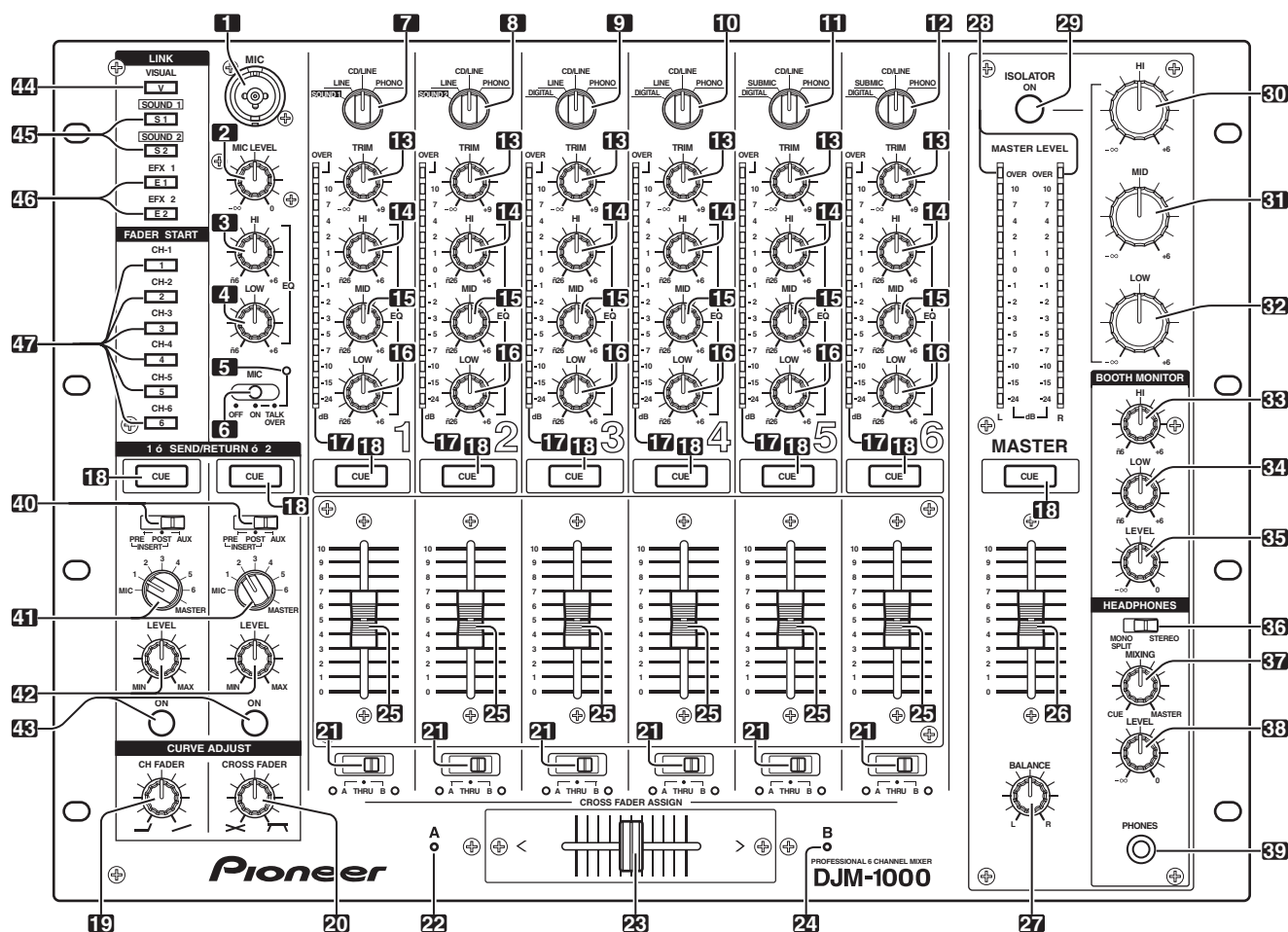
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E

F

8. PANEL FACILITIES

● OPERATION PANEL



Main microphone input control section

1. Main MIC input connector

Connect to microphones with XLR type or phone type connector.

2. MIC LEVEL adjustment dial

Adjusts the volume of the main microphone.
(Adjustable range: $-\infty$ to 0 dB)

3. Microphone equalizer high-range sound adjust dial (EQ HI)

Adjusts the high-range sound of the main microphone.
(Adjustable range: -6 dB to +6 dB)

4. Mic equalizer low-range sound adjust dial (EQ LOW)

Adjusts the low-range sound of the main microphone.
(Adjustable range: -6 dB to +6 dB)

5. Microphone function indicator

Lights when MIC selector switch is set to [ON]. Flashes when selector switch is set to [TALK OVER].

6. MIC function selector switch

OFF:

Main microphone audio is not output.

ON:

Main microphone audio is output.

TALK OVER:

Main microphone audio is output. When a sound higher than -15 dB is input to the main microphone input, the TALK OVER function operates and the output of all sound except for the main microphone audio is attenuated 20 dB.

Channel input control section

7. Channel 1 input selector switch

SOUND 1:

Dedicated input for DJ CD players supporting digital link (mini DIN connector).

LINE:

Phone type connector (When a monaural signal is connected to only the L channel, the signal is input to both L and R channels).

CD/LINE:

RCA type connector with line level input.

PHONO:

RCA type connector with phono level input.

8. Channel 2 input selector switch

SOUND 2:

Dedicated input for DJ CD players supporting digital link (mini DIN connector).

LINE:

Phone type connector (when a monaural signal is connected to only the L channel, the signal is input to both L and R channels).

CD/LINE:

RCA type connector with line level input.

PHONO:

RCA type connector with phono level input.

9. Channel 3 input selector switch

DIGITAL:

RCA type connector with coaxial cable digital input.

LINE:

Phone type connector (when a monaural signal is connected to only the L channel, the signal is input to both L and R channels).

CD/LINE:

RCA type connector with line level input.

PHONO:

RCA type connector with phono level input.

10. Channel 4 input selector switch

DIGITAL:

RCA type connector for coaxial cable digital input.

LINE:

Phone type connector (when a monaural signal is connected to only the L channel, the signal is input to both L and R channels).

CD/LINE:

RCA type connector with line level input.

PHONO:

RCA type connector with phono level input.

11. Channel 5 input selector switch

DIGITAL:

RCA type connector for coaxial cable digital input.

SUBMIC:

Phone type connector for sub microphone input (monaural).

CD/LINE:

RCA type connector with line level input.

PHONO:

RCA type connector with phono level input.

12. Channel 6 input selector switch

DIGITAL:

RCA type connector for coaxial cable digital input.

SUBMIC:

Phone type connector for sub microphone input (monaural).

CD/LINE:

RCA type connector with line level input.

PHONO:

RCA type connector with phono level input.

13. Channel 1-6 TRIM adjustment dials

Adjusts each channel's input level.

(Adjustable range: $-\infty$ to +9 dB, approaches 0 dB at mid-point)

14. Channel equalizer high-range sound adjust dials (EQ HI)

Adjusts each channel's high-range sound.

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

15. Channel equalizer mid-range sound adjust dials (EQ MID)

Adjusts each channel's mid-range sound.

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

16. Channel equalizer low-range sound adjust dials (EQ LOW)

Adjusts each channel's low-range sound.

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

17. Channel level indicators

Displays each channel level. The display provides 2 seconds peak hold.

18. Headphone CUE button/indicators

The selected source to be monitored by headphones is chosen by pressing the CUE button for RETURN 1, RETURN 2, channel 1-6, or MASTER. When multiple buttons are pressed at once, the selected audio sounds are mixed. When a button is pressed again, the selection is canceled. The buttons of unselected sources light dimly, and the buttons of the selected sources light brightly.

Fader control section

19. Curve adjust channel fader dial (CURVE ADJUST CH FADER)

Adjusts the curve characteristics of the channel fader.

20. Curve adjust cross fader dial (CURVE ADJUST CROSS FADER)

Adjusts the curve characteristics of the cross fader.

21. CROSS FADER ASSIGN switches/indicators

Selects which side of the cross fader the output from each channel is directed to. (When multiple channels have been selected in the same side, the combined sum is assigned to that side.)

A:

The channel output is directed to the A side (left side) of the cross fader. The A indicator will light.

THRU:

The channel output is directed to the master output without going through the cross fader. Both A and B indicators will go out.

B:

The channel output is directed to the B side (right side) of the cross fader. The B indicator will light.

22. Cross fader assign A indicator (A)

Lights orange when power is ON.

23. Cross fader slider

The audio directed to either the A side or B side by the CROSS FADER ASSIGN switch for each channel is output in accordance with the cross fader curve set by the CURVE ADJUST dial (CROSS FADER).

24. Cross fader assign B indicator (B)

Lights green when power is ON.

25. Channel fader slider

Adjusts volume of each channel.

(Adjustable range: $-\infty$ to 0 dB)

Outputs according to the channel fader curve set by the CURVE ADJUST dial (CH FADER).

Master output control section

26. MASTER fader slider

Adjusts the volume of the master output.

(Adjustable range: $-\infty$ to 0 dB)

The master output is the combination of the channel whose audio has been set to [THRU] by the CROSS FADER ASSIGN switch, together with the audio passed through the cross fader and the audio from the main microphone (depending on the mode, RETURN input will also be added).

27. MASTER BALANCE dial

Adjusts the L/R channel balance of the master output, booth monitor output, recording output, and digital output.

28. MASTER LEVEL indicators (L, R)

Displays output levels of the L channel and the R channel. Each segment provides 2 seconds of peak hold.

29. MASTER ISOLATOR button/indicator (ON)

Turns master isolator function ON/OFF.

The isolator function operates with respect to master output 1, master output 2, booth monitor output, recording output and digital output.

Turns off when OFF, and lights when ON.

30. MASTER ISOLATOR high-range sound adjust dial (HI)

Use to adjust the high-range sound of the master output signal. (Adjustable range: $-\infty$ to +6 dB)

31. MASTER ISOLATOR mid-range sound adjust dial (MID)

Used to adjust the mid-range sound of the master output signal. (Adjustable range: $-\infty$ to +6 dB)

32. MASTER ISOLATOR low-range sound adjust dial (LOW)

Used to adjust the low-range sound of the master output signal. (Adjustable range: $-\infty$ to +6 dB)

Booth monitor control section

33. BOOTH MONITOR equalizer high-range sound adjust dial (HI)

Used to adjust the high-range sound of the booth monitor output signal. (Adjustable range: -6 dB to +6 dB)

34. BOOTH MONITOR equalizer low-range sound adjust dial (LOW)

Used to adjust the low-range sound of the booth monitor output signal. (Adjustable range: -6dB to +6 dB)

35. BOOTH MONITOR LEVEL adjust dial

Adjusts the volume of the booth monitor output.

Adjustable regardless of setting of master fader.

(Adjustable range: $-\infty$ to 0 dB)

Headphone output section

36. Headphone output selector switch

(HEADPHONES – MONO SPLIT/STEREO)

MONO SPLIT:

The audio source selected by the headphone CUE button is output from the left channel, and the master audio is output from the right channel (Only when MASTER is selected with the headphone CUE button).

STEREO:

The selected audio is output in stereo.

37. Headphone MIXING dial (HEADPHONES MIXING)

When turned clockwise (MASTER direction) the master output audio is output (only when MASTER is selected with the headphone CUE button); when turned counterclockwise (CUE direction), the audio output will be a mixture of the sound from the channel selected with the headphone CUE button, and the sound coming from the external effector (RETURN).

38. Headphone LEVEL adjust dial (HEADPHONES LEVEL)

Adjusts the output volume of the headphone connector. (Adjustable range: $-\infty$ to 0 dB)

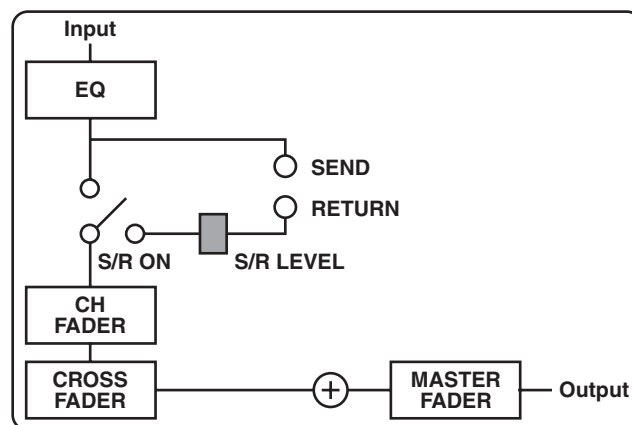
39. Headphone jack (PHONES)

SEND/RETURN section

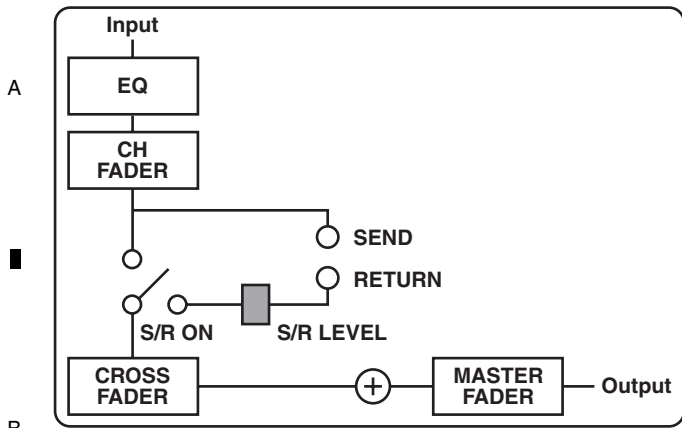
40. SEND/RETURN type selector switches

Use to switch between the sending stage (SEND) and input stage (RETURN) for signals when connected to an external effector.

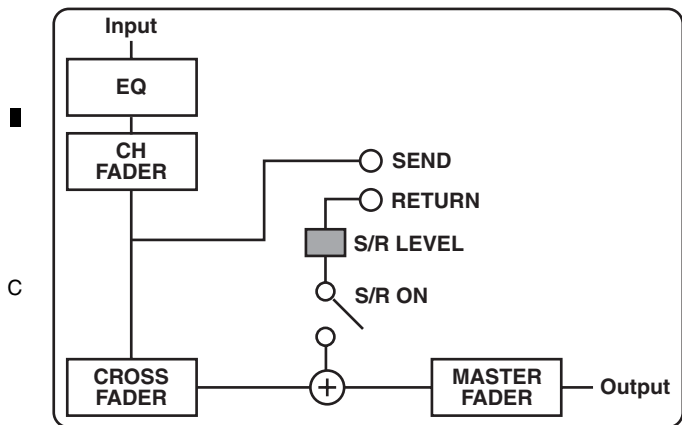
[Pre-Insert type]



[Post-Insert type]



[AUX type]



41. SEND channel selector switches

Use to select the send audio from MIC, channels 1-6, and MASTER.

42. RETURN input level adjust dials (LEVEL)

Adjusts the level of the signal returned.
(Adjustable range: $-\infty$ to +6 dB)

43. SEND/RETURN buttons/indicators (ON)

Use to switch ON/OFF the SEND/RETURN operation of the selected type on the selected channel.

Lights when a plug is inserted to the RETURN connector, or when a component supporting digital link is connected to the EFX connector. If the button is pressed when lighted, the function turns ON and the indicator flashes. When indicator is ON, input signal to RETURN connector is enabled. When a digital-link component is connected to the EFX connector, the digital link component (digital signal) is given priority.

Link function ON/OFF section

44. VISUAL LINK button/Indicator (V)

When a digital link cable (mini DIN connector) is used to connect a PIONEER video mixer/switcher supporting digital link, the video mixer's cross fader can be operated using the cross fader of the DJM-1000.
The indicator lights when the function is turned ON.

45. SOUND LINK buttons 1, 2 (SOUND 1, 2) / indicator (S1, 2)

When this unit is connected via digital link to a PIONEER DJ effector with digital link support (EFX-1000), and a PIONEER DJ CD player with digital link support is also connected via digital link cable (mini DIN connector), setting these buttons to ON enables BPM sync functions. The indicator lights when the function is turned ON.

46. Effector LINK buttons 1, 2 (EFX 1, 2) / Indicator (E 1, 2)

When a digital link cable (mini DIN connector) is used to connect this unit to a PIONEER DJ effector with digital link support (EFX-1000), setting these buttons to ON enables fader effect functions. The indicator lights when the function is turned ON.

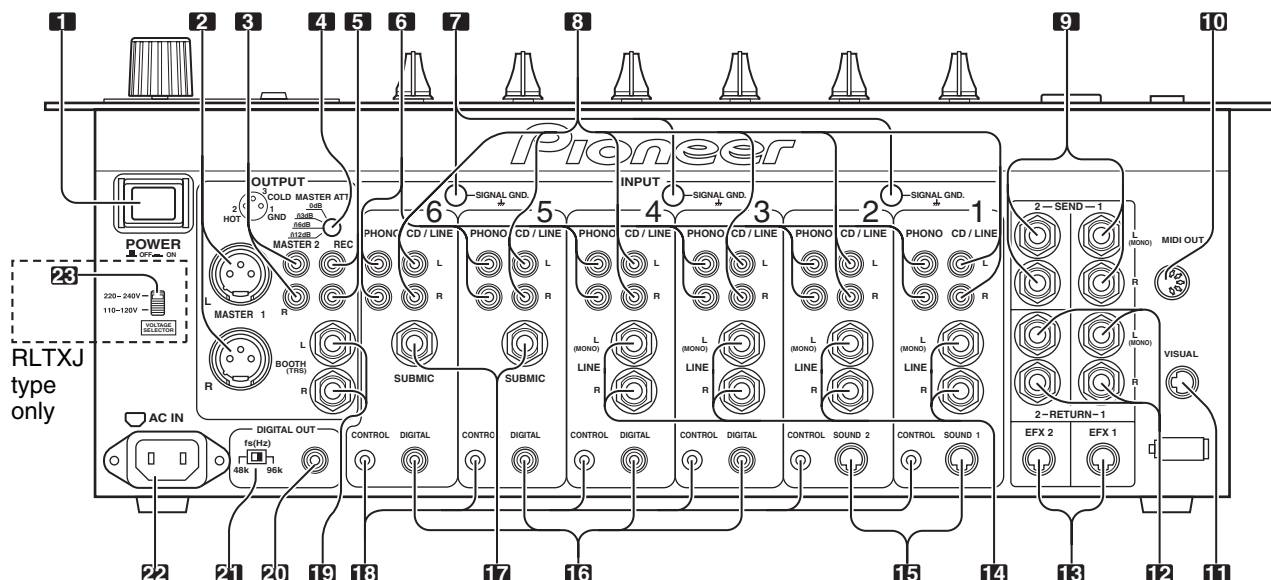
Fader start/stop ON/OFF section

47. Fader start button/indicators (FADER START CH-1 to CH-6)

When the CROSS FADER ASSIGN switches for each channel are used to select [A] or [B], the cross fader start/stop function of that channel's DJ CD player are turned ON/OFF.

When [THRU] is selected by the CROSS FADER ASSIGN switch for each channel, the channel fader start/stop function for that channel's DJ CD player is turned ON/OFF. The button for each channel lights up when the fader start/stop function is turned ON, and is turned off when the fader start/stop function is turned OFF.

● CONNECTION PANEL



1. POWER switch

2. MASTER output connector 1 (MASTER 1)

XLR type balanced output (male connector).

3. MASTER output connector 2 (MASTER 2)

RCA type unbalanced output.

4. MASTER output attenuator dial (MASTER ATT.)

Attenuates the output level of MASTER 1 and MASTER 2 output. The level of attenuation can be chosen from 0 dB (shipments position), -3 dB, -6 dB, -12 dB.

5. Recording output connectors (REC)

RCA type output connector for recording.

6. PHONO input connectors

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

7. Signal grounding terminal (SIGNAL GND)

Use to connect grounding wire from analog player. Not a terminal for safety grounding.

8. CD/LINE input connectors

RCA type line level input connectors. Use to connect DJ CD players and/or line level output devices.

9. SEND output connectors (SEND 1, 2)

ø6.3 mm phone type output connectors. Use to connects input connectors from external effectors, etc. When only the L channel is connected, a monaural signal of L+R is output.

10. MIDI output connector (MIDI OUT)

DIN type output connector. Connects with other MIDI devices.

11. VISUAL link connector

When a digital link cable is used to connect the unit to a PIONEER video mixer (switcher) supporting digital-linkage, the video mixer's cross fader can be controlled using the cross fader of the DJM-1000.

12. RETURN connectors (RETURN 1, 2)

ø6.3 mm phone type output connectors. Connect to input connectors of external effectors, etc. When only the L channel is connected, the input in the L channel will be input into the R channel.

13. EFX link input/output connectors (EFX 1, 2)

When a digital-link cable is used to connect the unit to a PIONEER DJ effector supporting digital linkage (EFX-1000), SEND/RETURN

connections are performed at once digitally, and functions such as fader effect are also enabled.

14. LINE input connectors

ø6.3 mm phone type line level connectors.

When only the L channel is connected, the input to the L channel will also be input into the R channel.

15. CDJ link input connectors (SOUND 1, 2)

When a digital-link cable is used to connect the unit to a PIONEER DJ CD player supporting digital linkage, the digital audio connections and control cable connections are performed at once, and functions such as BPM synchro are also enabled.

16. DIGITAL input connectors

RCA type digital coaxial input connectors. Connect to digital coaxial output connectors of DJ CD player, etc.

17. SUBMIC input connectors

ø6.3 mm phone type microphone input connectors. Utilizes the DJM-1000's channels 5 and 6 as microphone input channels.

18. CONTROL connectors

ø3.5 mm mini phone-type input connector for connecting control cable to DJ CD player. Allows use of the DJM-1000's fader function to control start/stop of a connected DJ CD player.

19. BOOTH monitor output connectors

ø6.3 mm phone type output connectors for booth monitor. Changes the volume with the BOOTH MONITOR dial (LEVEL), unaffected to the MASTER fader (since output is TRS, both balanced and unbalanced outputs are supported).

20. Digital output connector (DIGITAL OUT)

RCA type digital coaxial output connector. Digital master output.

21. Sampling frequency selector switch (48k/96k)

Chooses the sampling frequency of the digital output (96 kHz or 48 kHz).

22. Power inlet connector (AC IN)

Connect to AC outlet plug with the provided power cord.

23. VOLTAGE SELECTOR switch (RLTXJ type only)

Set to position of local electric voltage.

Jigs list

A

Jig No.	Jig Name	Remarks
GGF1490	RS-232C jig	used for version up mode

B

C

D

E

F