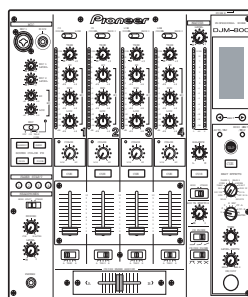


Service Manual



DJM-800

ORDER NO.
RRV3340

DJ MIXER

DJM-800

ROTARY VOLUME KIT

DJC-800RV

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

Model	Type	Power Requirement	Remarks
DJM-800	KUCXJ	AC120V	
DJM-800	WYXJ5	AC220 - 240V	
DJM-800	TLXJ	AC110 - 120V / 220 - 240V	
DJC-800RV	ZXJ/WL5	—	



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

1234

SAFETY INFORMATION



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

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

WARNING

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

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

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

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

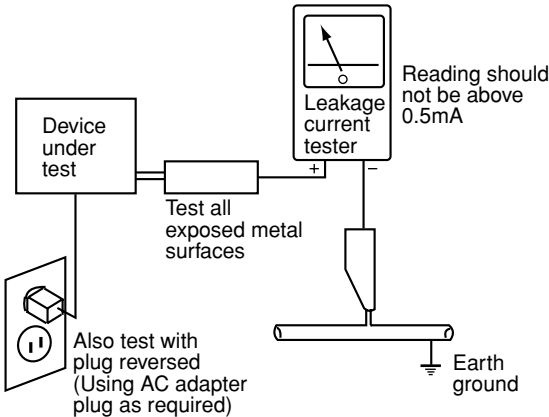
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (waterpipe , 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 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



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 Δ 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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SPECIFICATIONS

1. General

Power source (/KUCXJ)	AC 120 V, 60 Hz
Power source (/WYXJ5)	AC 220–240V, 50/60 Hz
Power source (/TLXJ)	AC 110–120/220–240V, 50/60 Hz

Power consumption	32W
Operating temperature	+5 °C to +35 °C (+41 °F to +95 °F)
Operating humidity	5 % to 85 % (without condensation)
Weight	8.0 kg (16.54 lb)
Maximum dimensions	320 (W) x 381 (D) x 108 (H) mm 12-5/8 (W) x 15 (D) x 4-1/4 (H) in

2. Audio section

Sampling rate	96 kHz
A/D, D/A converter	24 bits
Frequency response	
LINE	20 Hz to 20 kHz
MIC	20 Hz to 20 kHz
PHONO	20 Hz to 20 kHz (RIAA)
S/N ratio (at rated output)	
LINE	105 dB
PHONO	88 dB
MIC	84 dB
Distortion (LINE-MASTER 1)	0.005 %
Standard input level/Input impedance	
PHONO 2 to 4	–52 dBu/47 kΩ
MIC 1, MIC 2	–52 dBu/3 kΩ
LINE, LINE/CD 1 to 4	–12 dBu/22 kΩ
RETURN	–12 dBu/22 kΩ
Standard output level/Load impedance/Output impedance	
MASTER 1	+2 dBu/10kΩ /10Ω or less
MASTER 2	+2 dBu/10 k Ω/1 kΩ
REC	–8 dBu/10 kΩ /1 kΩ
BOOTH	+2 dBu/600Ω /600Ω
SEND	–12dBu/10 kΩ /1 kΩ
PHONES	+8.5 dBu/32Ω /22Ω or less
Rated output level/Load impedance	
MASTER 1	+22 dBu/10kΩ
MASTER 2	+20 dBu/10 kΩ
Crosstalk (LINE)	88 dB
Channel equalizer response	
HI	–26 dB to +6 dB (13 kHz)
MID	–26 dB to +6 dB (1 kHz)
LOW	–26 dB to +6 dB (70 Hz)
Microphone equalizer response	
HI	–12 dB to +6 dB (10 kHz)
LOW	–12 dB to +6 dB (100 Hz)

3. Input/output connector systems

PHONO input connectors	
RCA pin jacks	3
LINE/CD input connectors	
RCA pin jacks	4
LINE input connectors	
RCA pin jacks	1
MIC input connectors	
XLR connector/phone jack (Ø6.3 mm)	1
Phone jack (Ø6.3 mm)	1
DIGITAL coaxial input connectors	
RCA pin jacks	4
RETURN input connectors	
Phone jacks (Ø6.3 mm)	1
MASTER output connectors	
XLR connectors	1
RCA pin jacks	1
BOOTH output connectors	
Phone jacks (Ø6.3 mm)	1
REC output connectors	
RCA pin jacks	1
SEND output connectors	
Phone jacks (Ø6.3 mm)	1
DIGITAL coaxial output connector	
RCA pin jack	1
MIDI OUT connector	
5P DIN	1
PHONES output connector	
Stereo phone jack (Ø6.3 mm)	1
CONTROL connector	
Mini phone jacks (Ø3.5 mm)	4

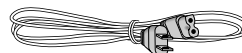
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Power cord	1
Warranty card	1

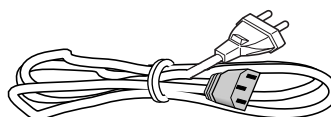
Specifications and appearance are subject to change without notice.

● Accessories

Power cord
(KUCXJ : DDG1028)



(WYXJ5, TLXJ : ADG7062)

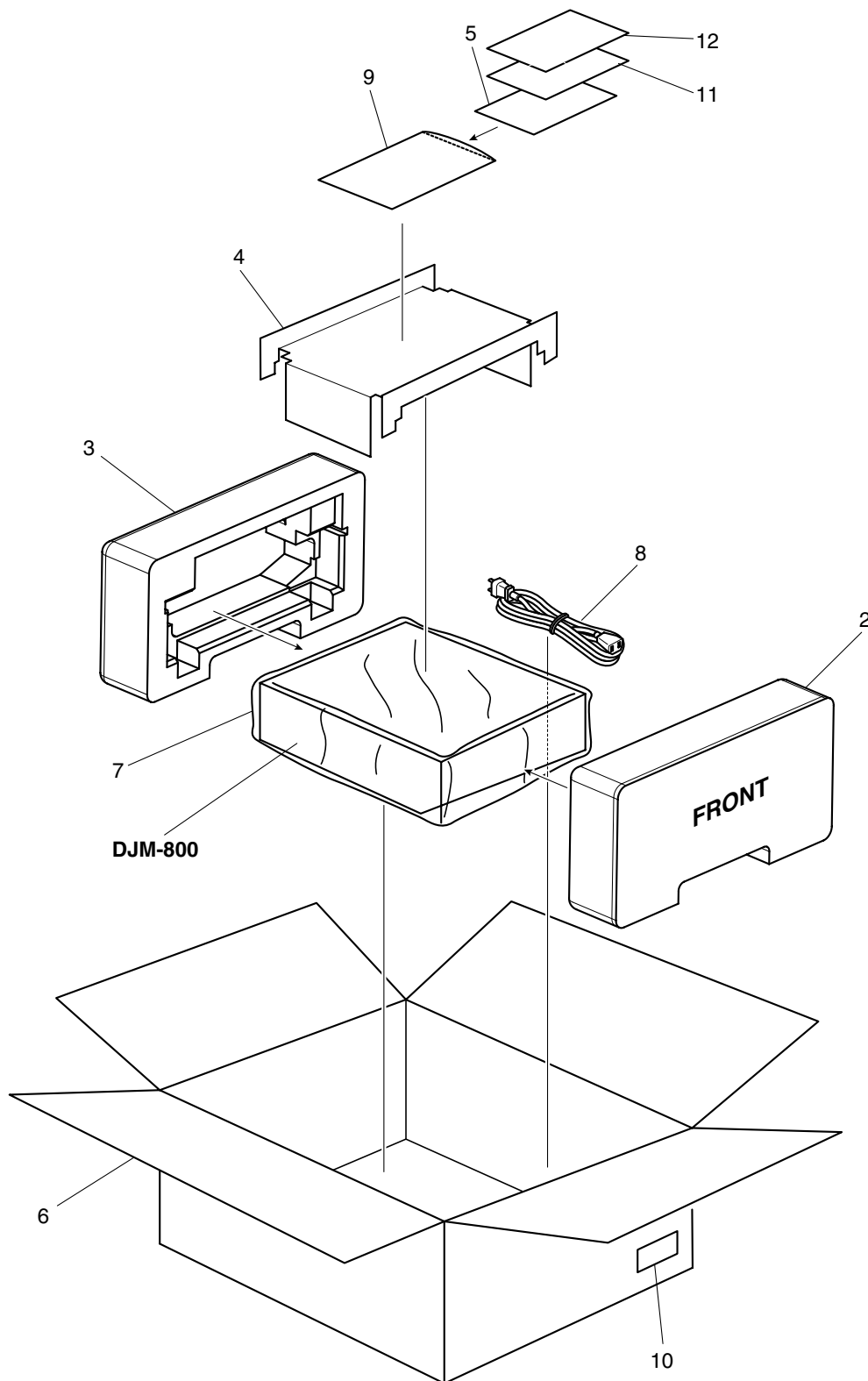


Operating instructions
Warranty card (KUCXJ only)

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



DJM-800

(1) PACKING SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	• • • • •		⚠ 8	Power Cord	See Contrast table (2)
2	Pad Front	DHA1698	NSP 9	Polyethylene Bag	AHG7117
3	Pad Rear	DHA1699	NSP 10	Label	See Contrast table (2)
4	Pad Top	DHA1705			
5	Instruction Manual(M800)	See Contrast table (2)	NSP 11	Warranty Card	See Contrast table (2)
			NSP 12	User Registration Sheet	DRM1262
6	Packing Case	See Contrast table (2)			
7	Sheet	RHX1006			

(2) CONTRAST TABLE

DJM-800/WYXJ5, DJM-800/TLXJ and DJM-800/KUCXJ are constructed the same except for the following

Mark	No.	Symbol and Description	DJM-800 /KUCXJ	DJM-800 /WYXJ5	DJM-800 /TLXJ
	5	Instruction Manual (English)	DRB1393	Not used	Not used
	5	Instruction Manual (English, French German, Italian, Dutch, Spanish)	Not used	DRB1392	Not used
	5	Instruction Manual (English, Spanish, Chinese)	Not used	Not used	DRB1394
	6	Packing Case	DHG2559	DHG2558	DHG2560
⚠	8	Power Cord	DDG1028	ADG7062	ADG7062
NSP	10	Label	DRW2311	VRW1629	VRW1629
NSP	11	Warranty Card	ARY7043	Not used	Not used

△



EXTERIOR SECTION PARTS LIST

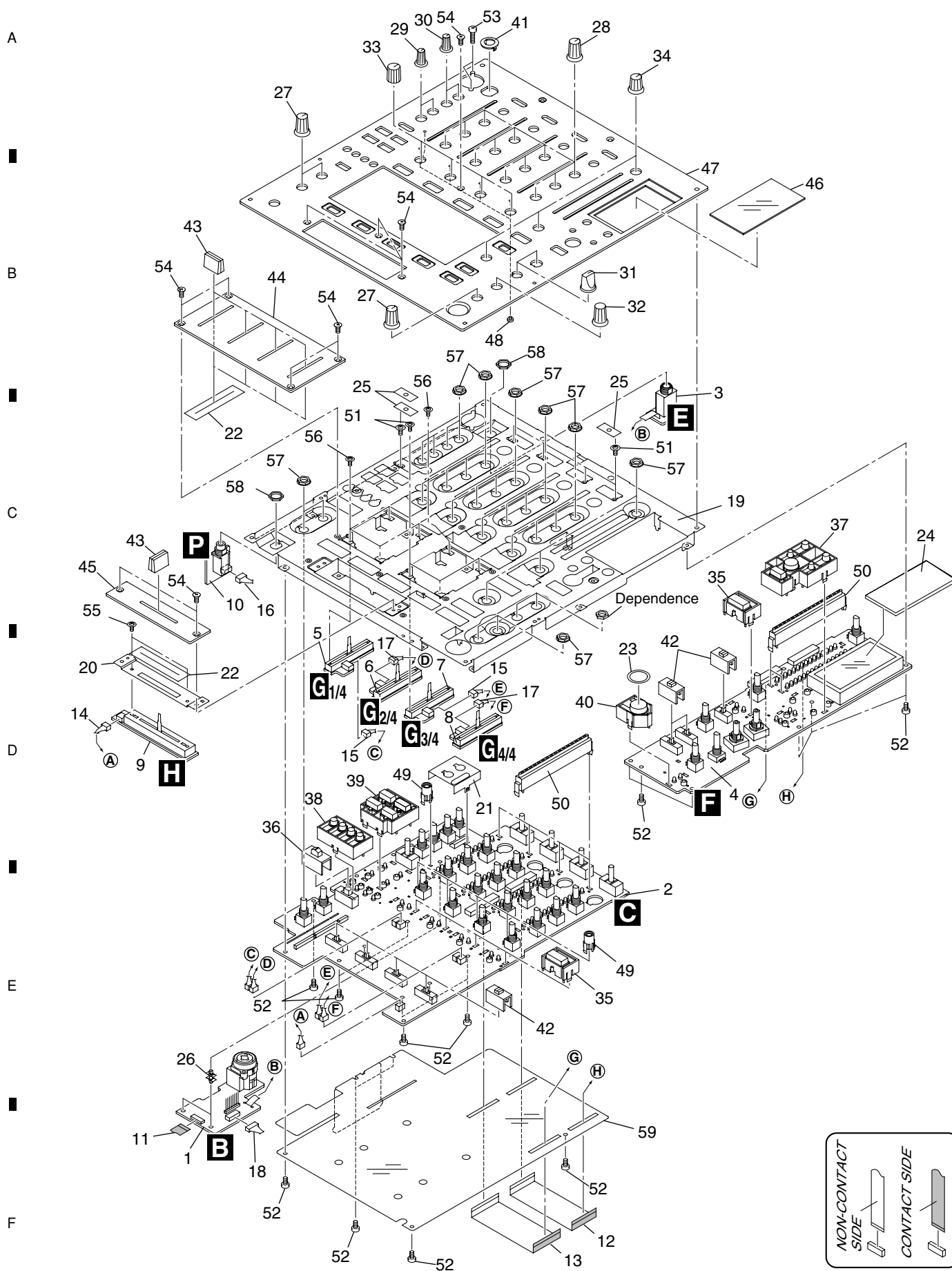
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	INPUT Assy	DWX2535	37	Shield Case	DNH2697
2	TRIM 4 Assy	DWX2551	38	Shield Case AC	DNH2698
3	TRIM 3 Assy	DWX2550	39	Shield Case DSP	DNH2699
4	TRIM 2 Assy	DWX2549	40	Chassis Assy	DXB1881
5	TRIM 1 Assy	DWX2548			
6	DSP Assy	DWX2534	41	Leg Assy	REC-434
7	OUTPUT Assy	DWX2544	NSP 42	Spacer	AEB7092
8	DIGIC Assy	DWX2547	43	PHONE Spacer	DEC2914
9	DIGIA Assy	DWX2555	44	Barrier A	DEC2915
10	SLSW Assy	DWX2536	45	Styling Sheet	DEC2917
11	DIGIB Assy	DWX2546	46	Bottom Cover	DEC2918
12	HPAMP Assy	DWX2556	47	Blind Label	DEC2928
⚠ 13	POWER SUPPLY Unit	DWR1433	48	Barrier B	DEC2944
14	ACSW Assy	DWX2545	49	Select Knob (S)	DAA1166
15	Short Pin Plug	AKM7008	50	Extension Shaft	DNK4691
16	Flexible Cable (31P)	DDD1316	51	Rotary SW Knob S	DAA1204
17	Flexible Cable (12P)	DDD1317	52	Bracket PSW	DNF1730
18	Flexible Cable (25P)	DDD1318	53	POWER Knob	DAC2306
19	Flexible Cable (16P)	DDD1319	54	POWER Knob Guard	DNK4534
20	Flexible Cable (10P)	DDD1321	NSP 55	LABEL	See Contrast table (2)
21	Flexible Cable (30P)	DDD1322	56	CAUTION Label	DRW2312
22	Flexible Cable (25P)	DDD1323	57	Blind Cap	DNK4218
23	Flexible Cable (7P)	DDD1326	58	Terminal Screw	AKE-031-0
24	Flexible Cable (12P)	DDD1327	59	Screw	BBZ30P060FTB
25	Flexible Cable (6P)	DDD1328	60	Screw	BBZ30P080FTC
26	Flexible Cable (7P)	DDD1329	61	Screw	BCZ30P080FTB
27	Flexible Cable (10P)	DDD1333	62	Screw	BPZ30P080FTB
⚠ 28	AC Inlet Assy	See Contrast table (2)	63	Screw	CCZ30P060FTB
29	Flexible Cable (24P)	DDD1330	64	Flange Nut M7	DBN1011
30	Connector Assy(10P-12P)	DKP3763	65	Screw	IBZ30P080FTB
31	Connector Assy	PF05EE-S22	66	Nut	NKX2FTC
32	Connector Assy	PF05EE4S32	67	Screw	PMH30P100FTB
33	Connector Assy	PF06EE-D12	68	Screw	PMH40P080FTC
NSP 34	Rear Panel	See Contrast table (2)	69	Binder (SKB-90BK)	ZCA-SKB90BK
35	Bracket TRIM	DNF1728	NSP 70	Caution LABEL	See Contrast table (2)
36	Bracket SSW	DNF1729	NSP 71	Earth LABEL	See Contrast table (2)

(2) CONTRAST TABLE

DJM-800/WYXJ5, /TLXJ and DJM-800/KUCXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DJM-800 /KUCXJ	DJM-800 /WYXJ5	DJM-800 /TLXJ
⚠	28	AC Inlet Assy	DKP3761	DKP3762	DKP3762
NSP	34	Rear Panel	DNC1800	DNC1789	DNC1791
NSP	55	LABEL	DRW2294	DRW2293	DRW2319
NSP	70	Caution LABEL	DRW1975	Not used	Not used
NSP	71	Earth LABEL	DRW2276	Not used	Not used

2.3 CONTROL PANEL SECTION



CONTROL PANEL SECTION PARTS LIST

Mark No.	Description	Part No.
1	MIC 1 Assy	DWX2542
2	PANEL 1 Assy	DWX2552
3	MIC 2 Assy	DWX2543
4	PANEL 2 Assy	DWX2554
5	CHFD 1 Assy	DWX2537
6	CHFD 2 Assy	DWX2538
7	CHFD 3 Assy	DWX2539
8	CHFD 4 Assy	DWX2540
9	CRSFD Assy	DWX2541
10	HP JACK Assy	DWX2553
11	Flexible Cable (12P)	DDD1320
12	Flexible Cable (27P)	DDD1324
13	Flexible Cable (30P)	DDD1325
14	Housing Wire Assy	PF03PP-D12
15	Housing Wire Assy	PF04PP-D05
16	Housing Wire Assy	PF04PP-D20
17	Housing Wire Assy	PF04PP4D05
18	Housing Wire Assy	PF05FF-D25
NSP 19	Panel Stay	DND1254
20	CRF Stay	DNF1726
21	MIC Stay	DNF1727
22	Fader Packing	DEC2903
23	SW Packing	DEC2929
24	Barrier (FL)	DEC2943
25	SW Packing	DED1177
NSP 26	PC Support	VEC1508
27	Rotary SW Knob (A)	DAA1175
28	Rotary SW Knob (B)	DAA1176
29	Rotary SW Knob S (A)	DAA1177
30	Rotary SW Knob S (B)	DAA1178
31	Select Knob	DAA1205
32	Rotary SW Knob (C)	DAA1180
33	Rotary SW Knob (HM)	DAA1197
34	Rotary SW Knob (MA)	DAA1198
35	CUE Knob	DAC2215
36	Slide SW Cap (A)	DAC2219
37	SET Knob (TAP)	DAC2300
38	SET Knob (FS)	DAC2301
39	SET Knob (HM)	DAC2302
40	EFFECT Knob	DAC2304
41	MIC Cap	DAC2309
42	Slide SW Cap	DAC2310
43	Slider Knob (L2)	DAC2371
44	CHF Panel	DAH2426
45	CRF Panel	DAH2427
46	Disply Panel	DAH2428
47	Control Panel	DNB1144
48	LENS	DNK4532
49	LENS Holder	DNK4533

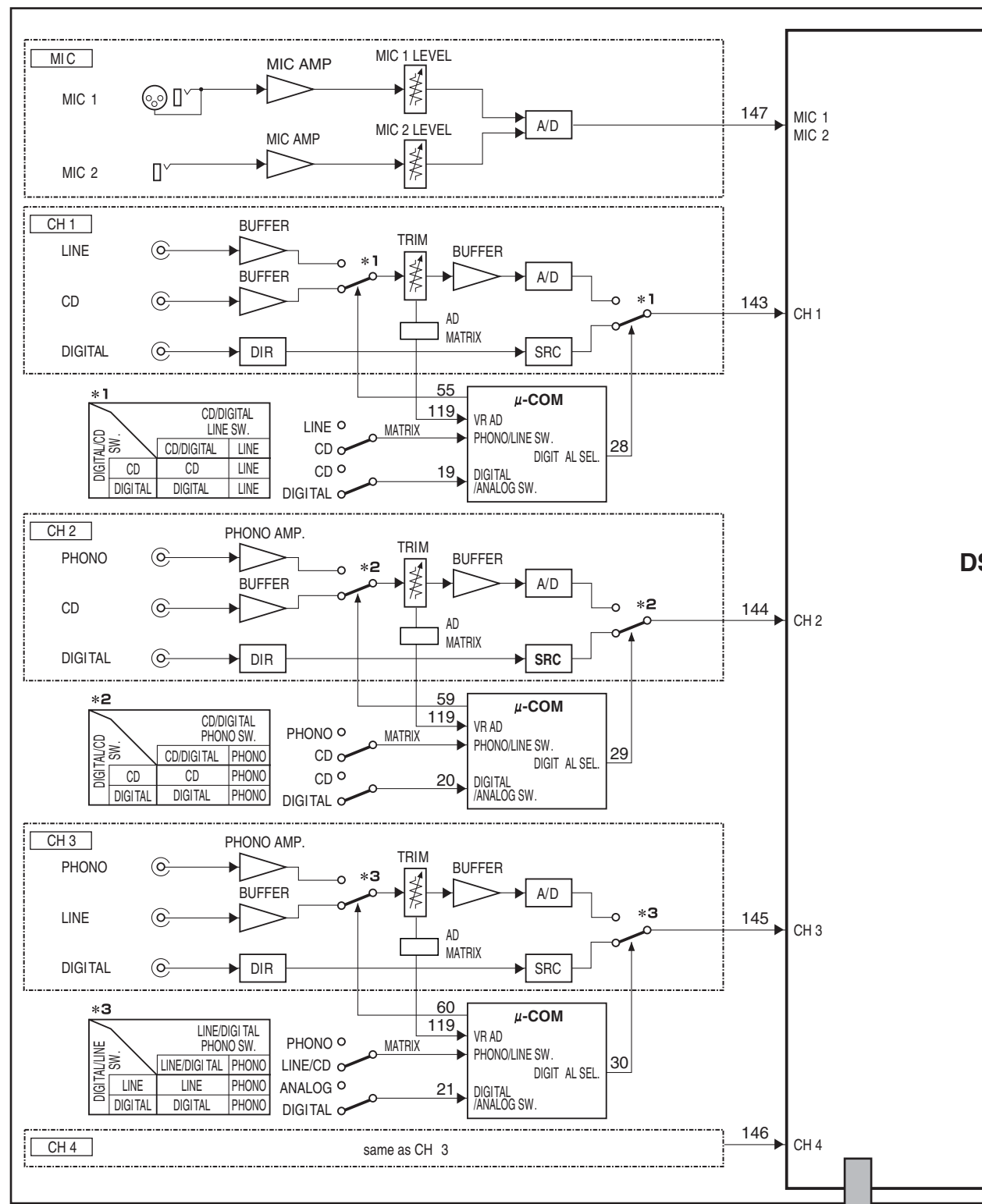
Mark No.	Description	Part No.
50	LEVEL Meter Assy	DXB1882
51	Screw	AMZ26P040FTC
52	Screw	BBZ30P060FTB
53	Screw	BPZ30P120FTB
54	Screw	CCZ30P060FTB
55	Screw	DBA1262
56	Screw	DBA1298
57	Flange Nut M9	DBN1008
58	Nut	NKX2FTC

A
B
C
D
E
F

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 OVERALL BLOCK DIAGRAM_1

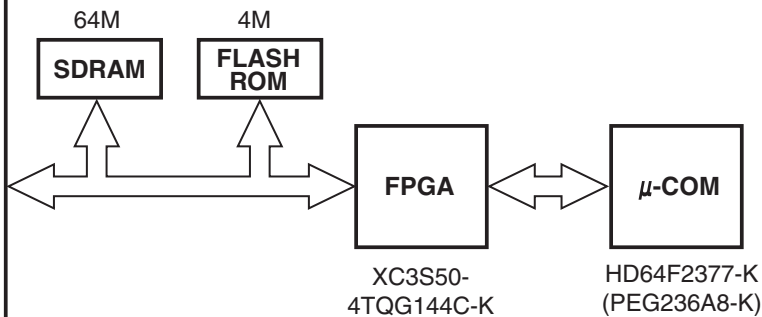
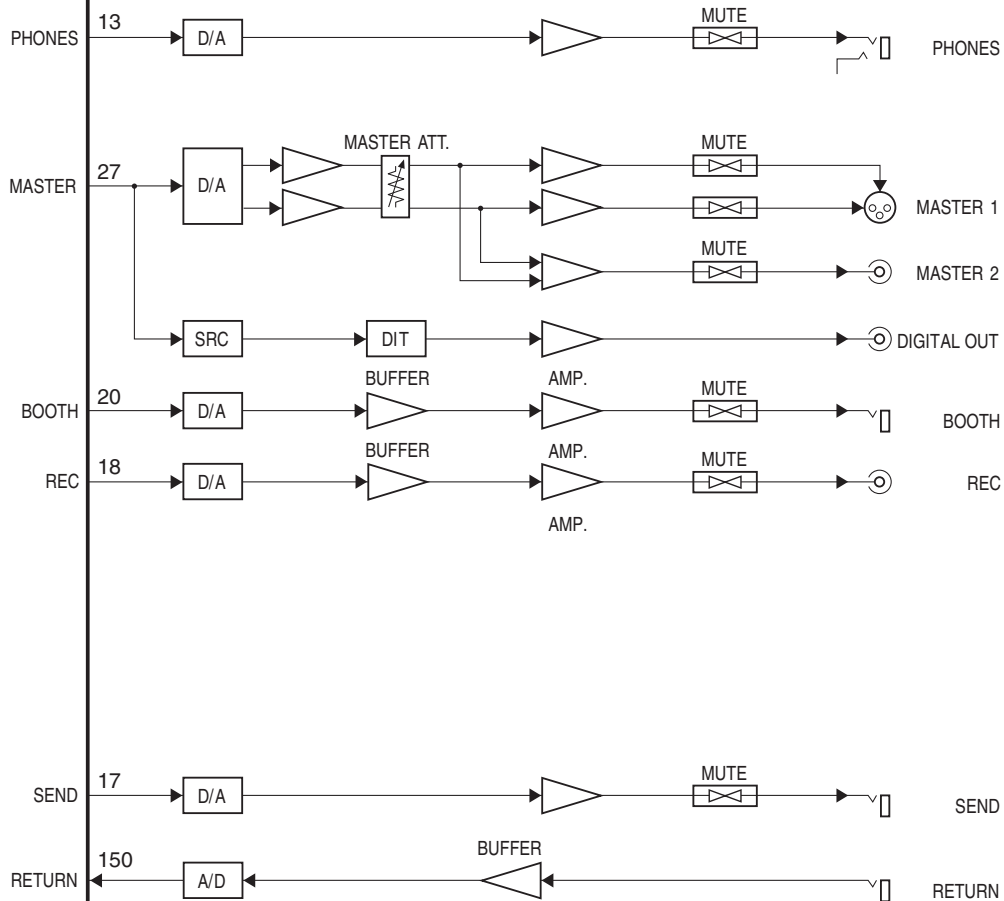
BLOCK DIAGRAM



To DSP BLOCK DIAGRAM

D610A003BPYP A225-K

DSP

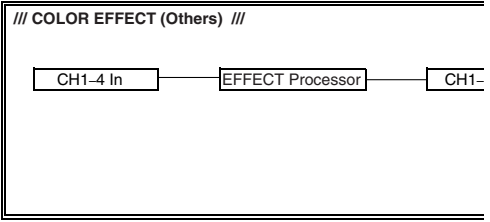
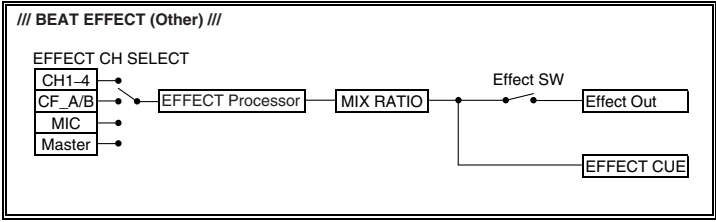
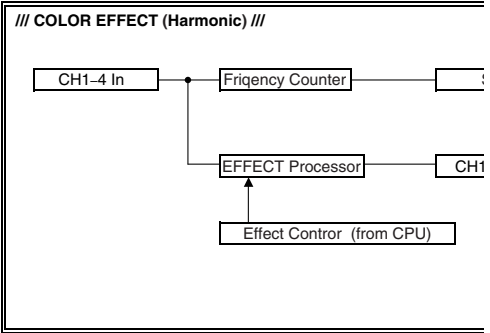
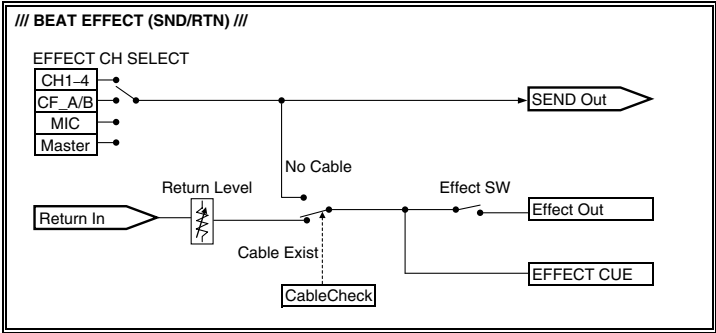
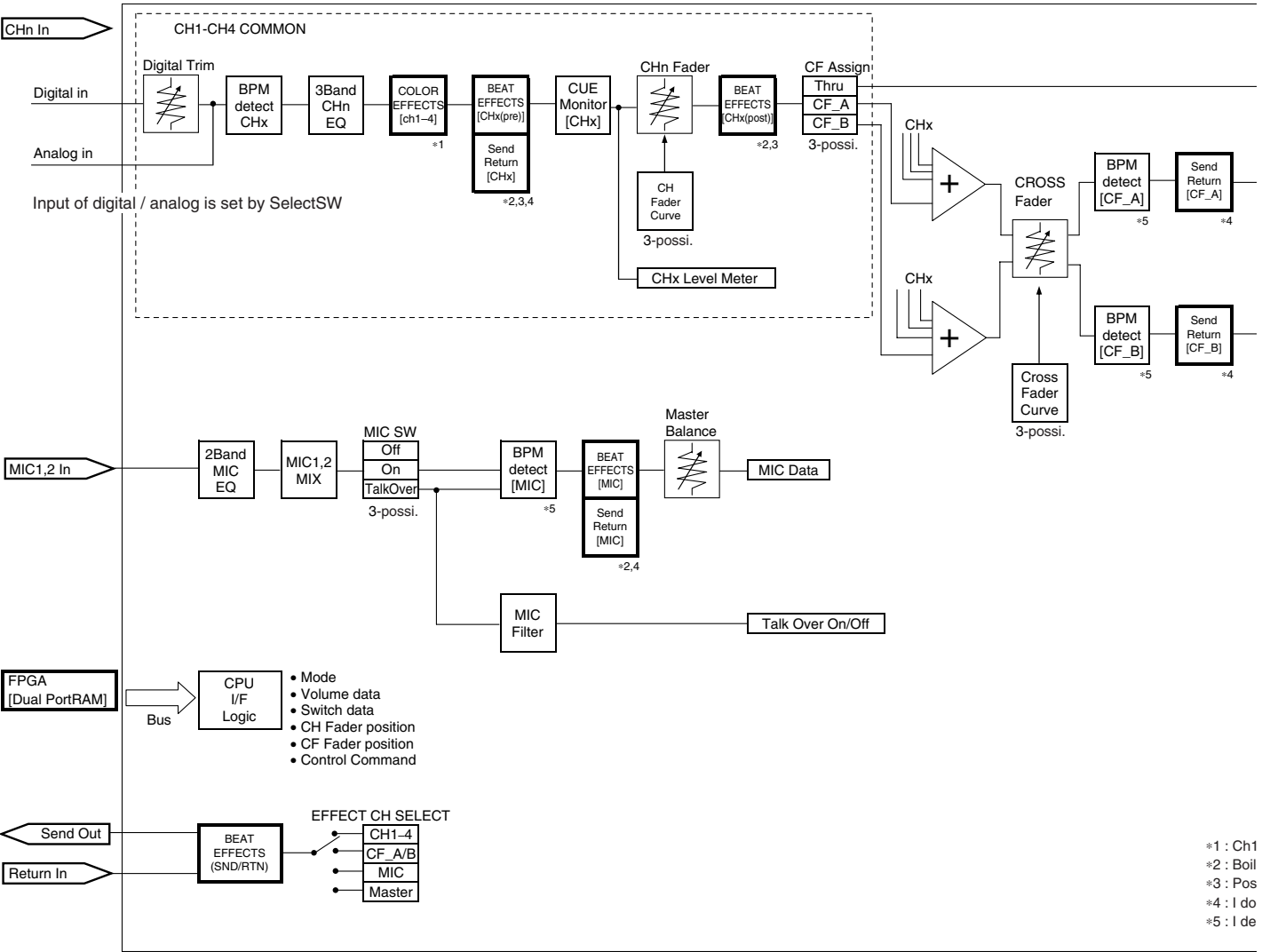


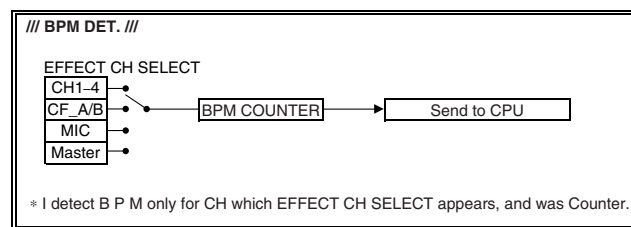
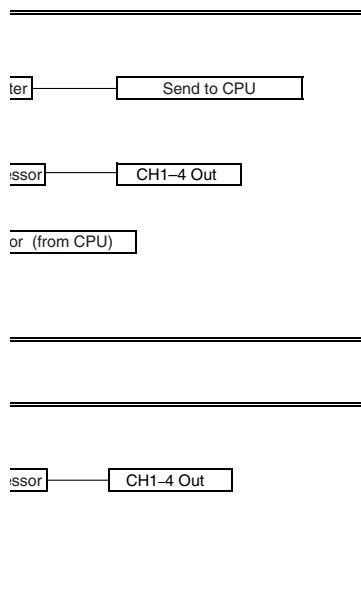
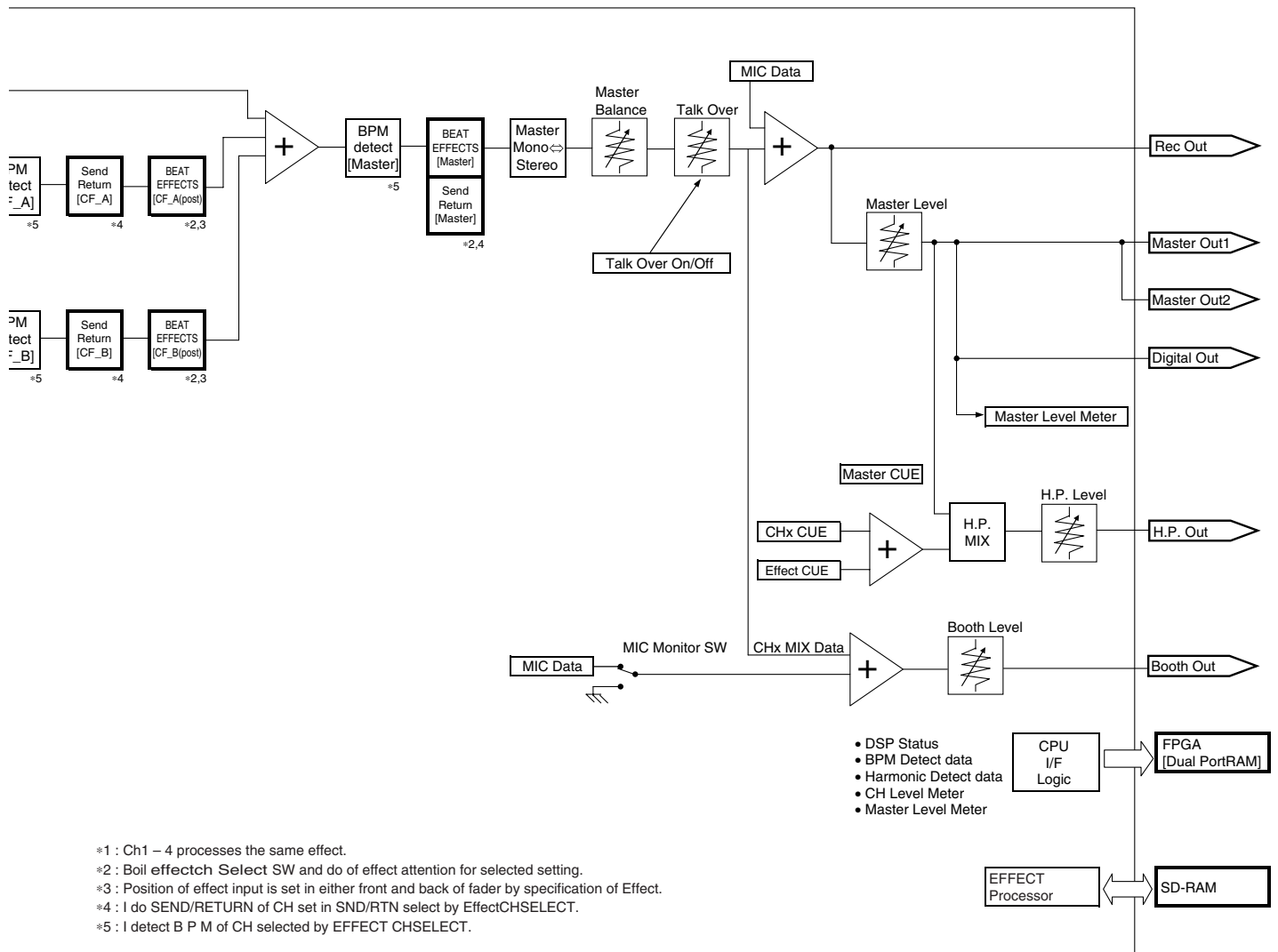
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
-  : The power supply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

3.2 OVERALL BLOCK DIAGRAM_2

DSP BLOCK DIAGRAM

DJM-800 Audio DSP

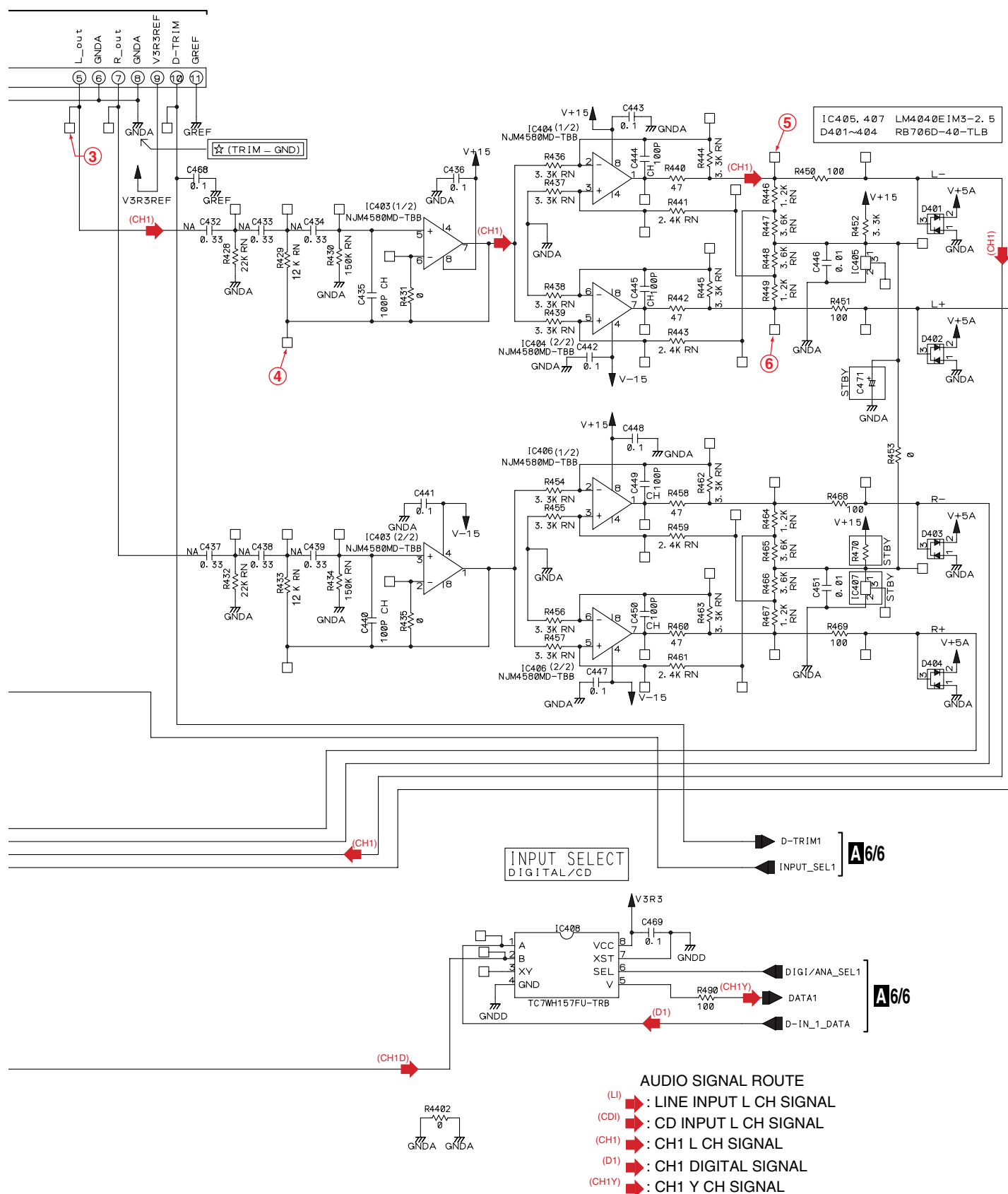




4



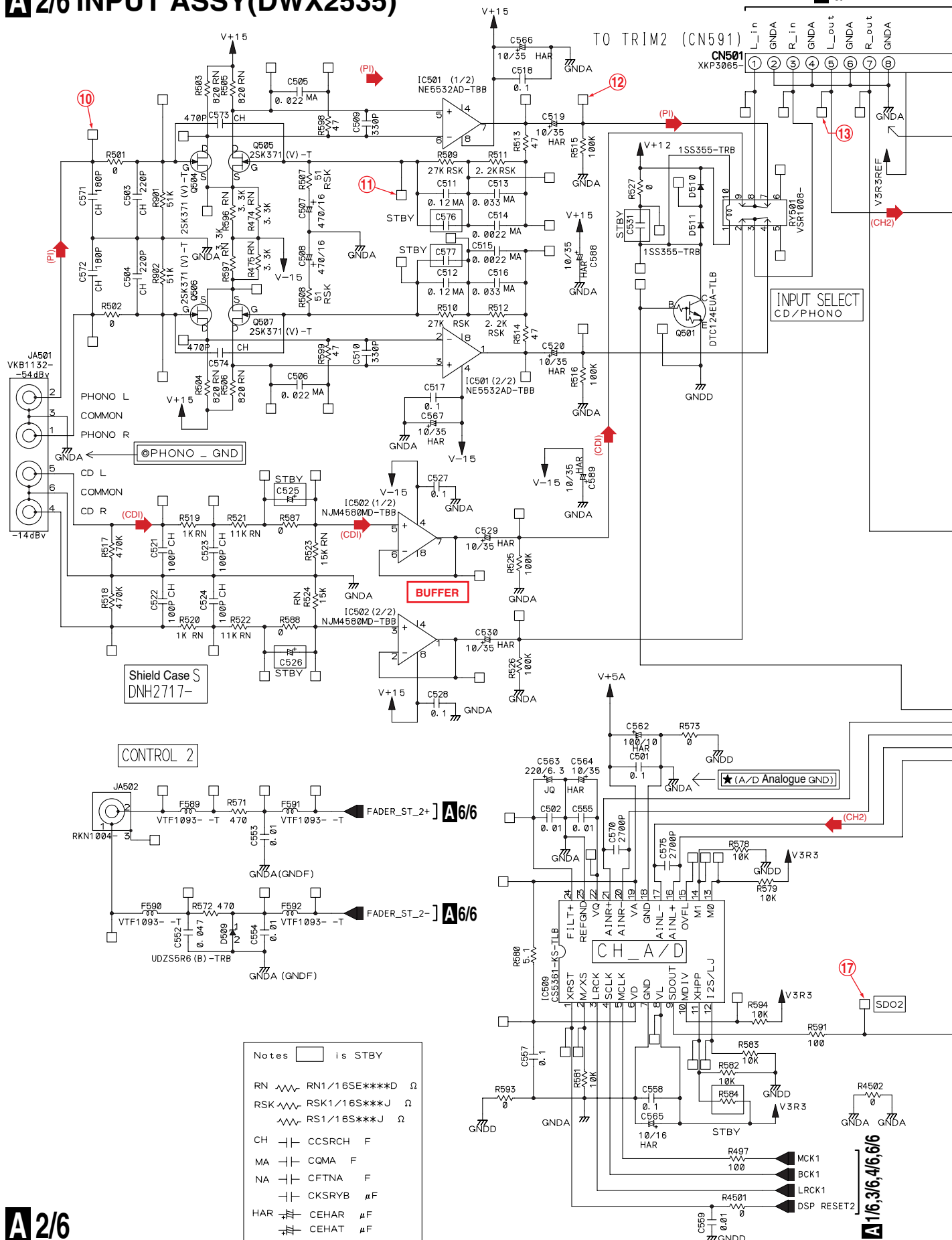


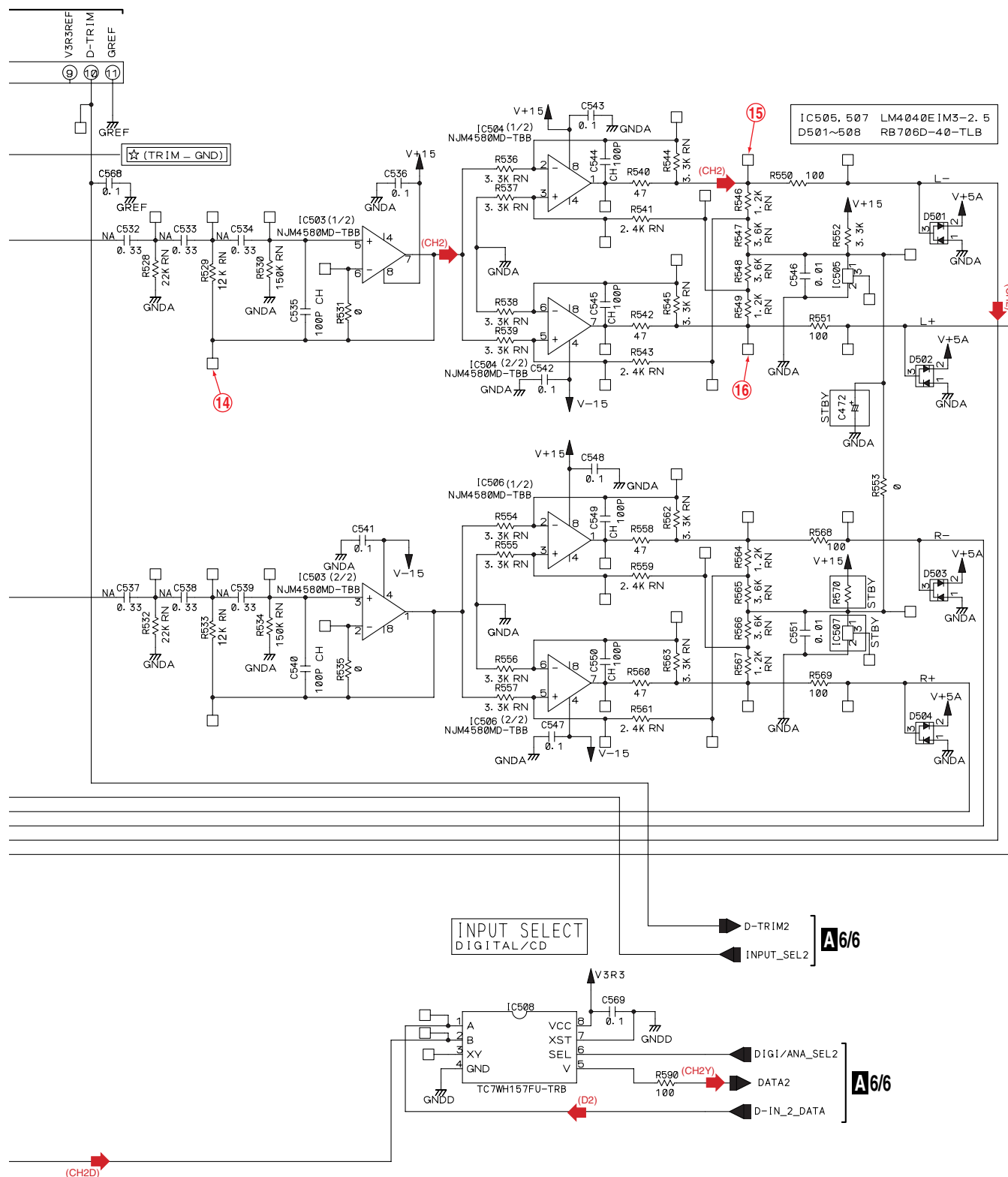


3.5 INPUT ASSY (2/6)

A 2/6 INPUT ASSY(DWX2535)

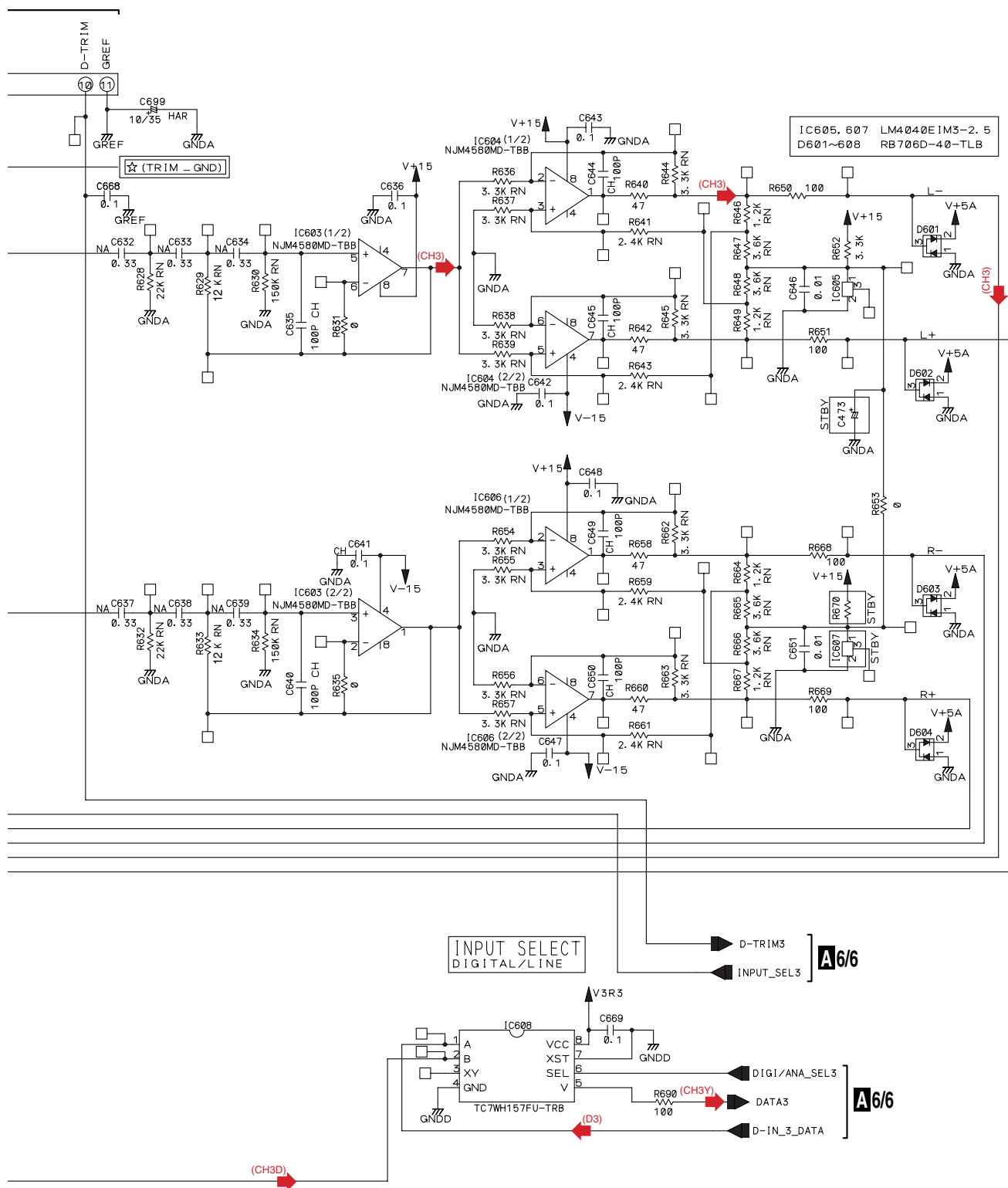
D 3/4 CN591





AUDIO SIGNAL ROUTE

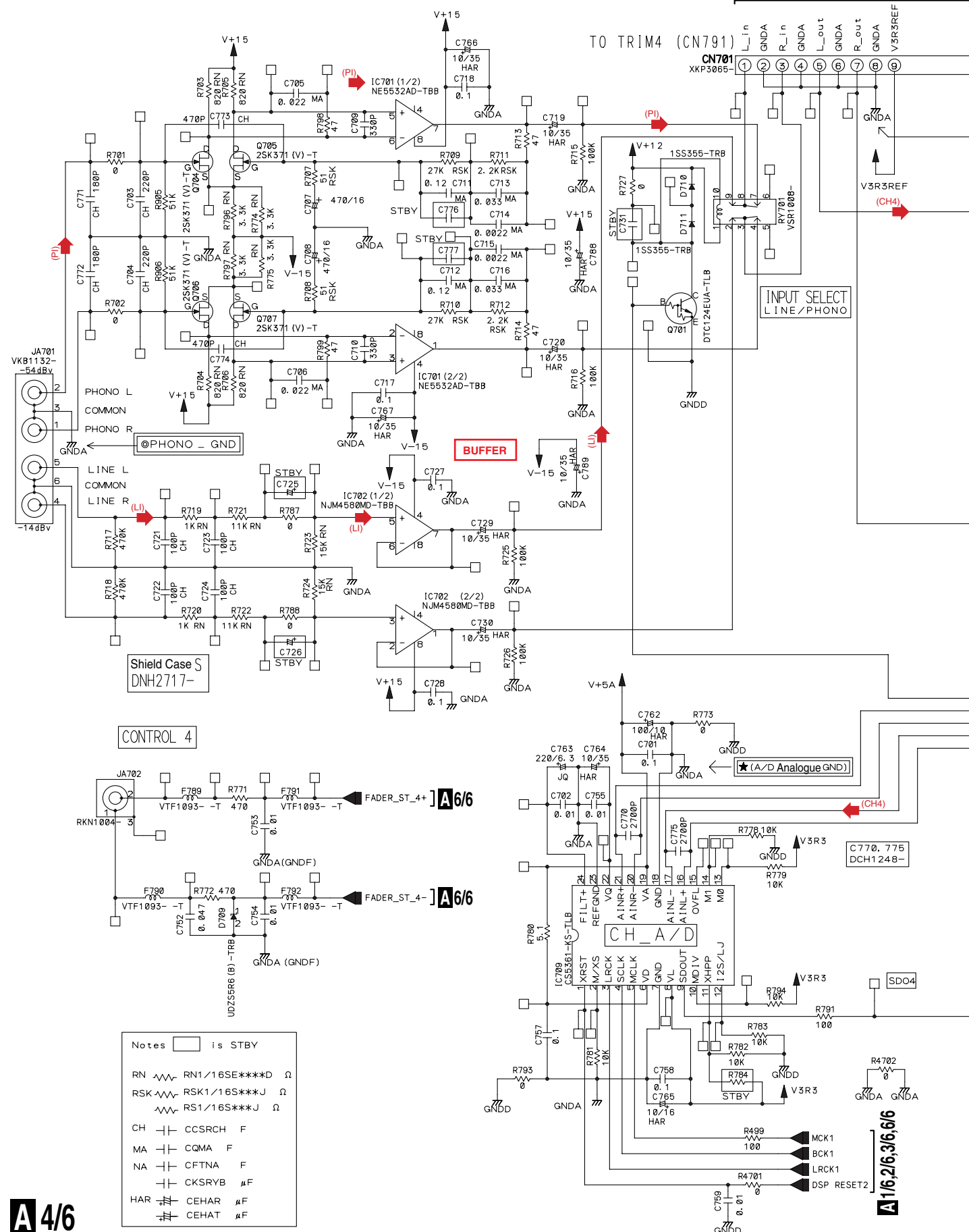
- (PI) → : PHONO INPUT L CH SIGNAL
- (CDI) → : CD INPUT L CH SIGNAL
- (CH2) → : CH2 L CH SIGNAL
- (D2) → : CH2 DIGITAL SIGNAL
- (CH2Y) → : CH2 Y CH SIGNAL



3.7 INPUT ASSY (4/6)

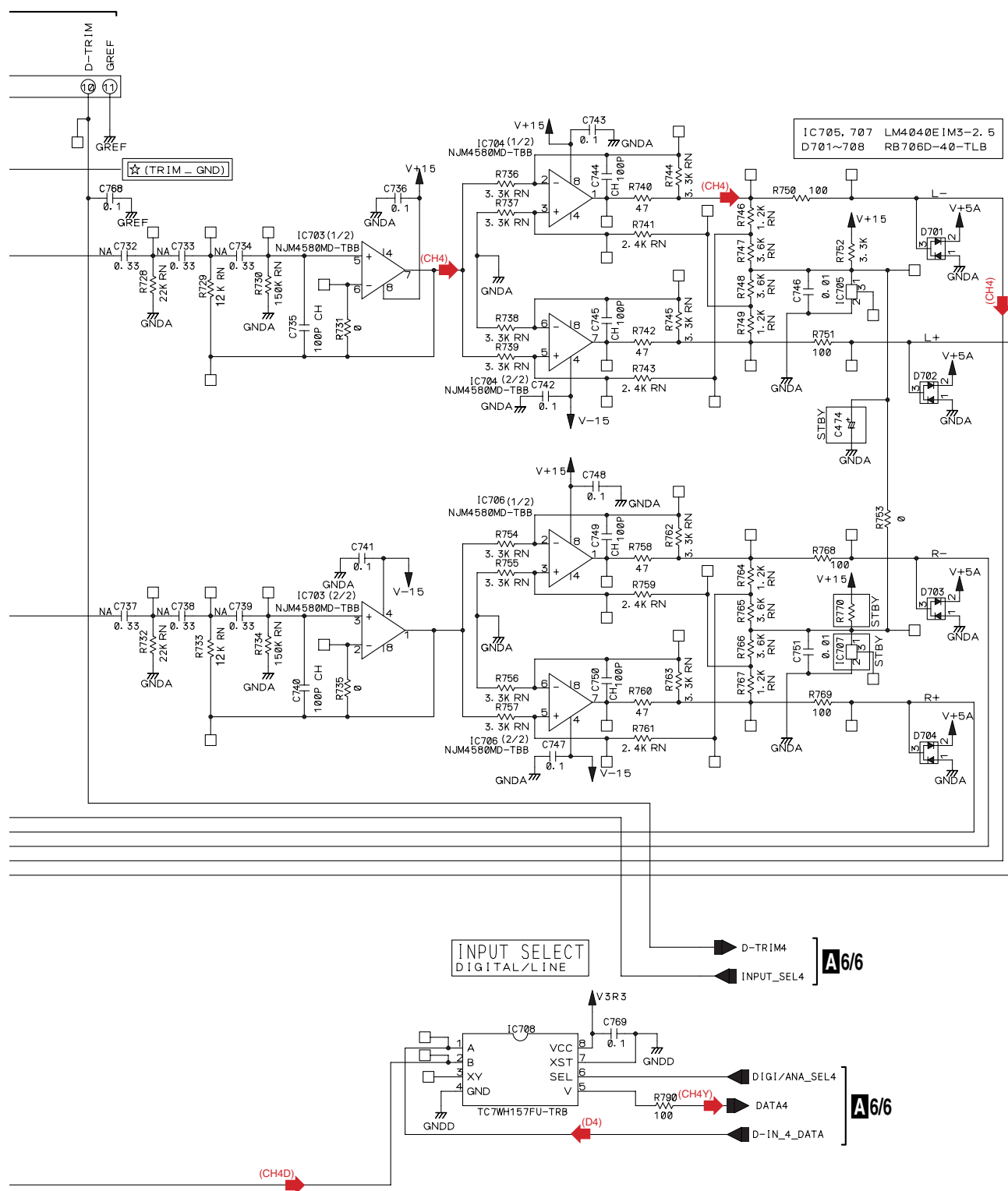
A 4/6 INPUT ASSY (DWX2535)

D 1/4 CN791



A 4/6

A 1/6,2/6,3/6,6/6

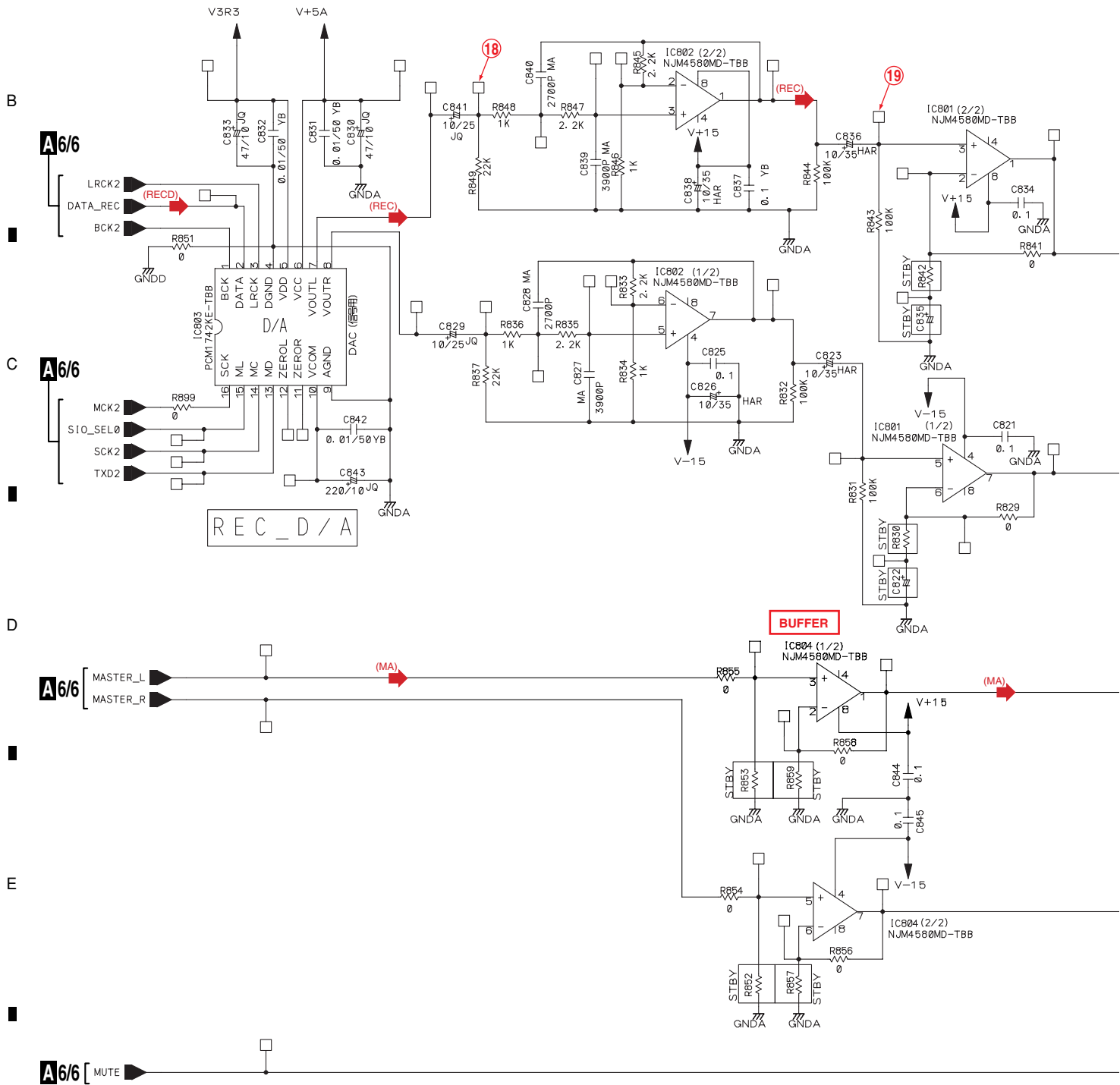


AUDIO SIGNAL ROUTE

- (PI) : PHONO INPUT L CH SIGNAL
- (LI) : LINE INPUT L CH SIGNAL
- (CH4) : CH4 L CH SIGNAL
- (D4) : CH4 DIGITAL SIGNAL
- (CH4Y) : CH4 Y CH SIGNAL

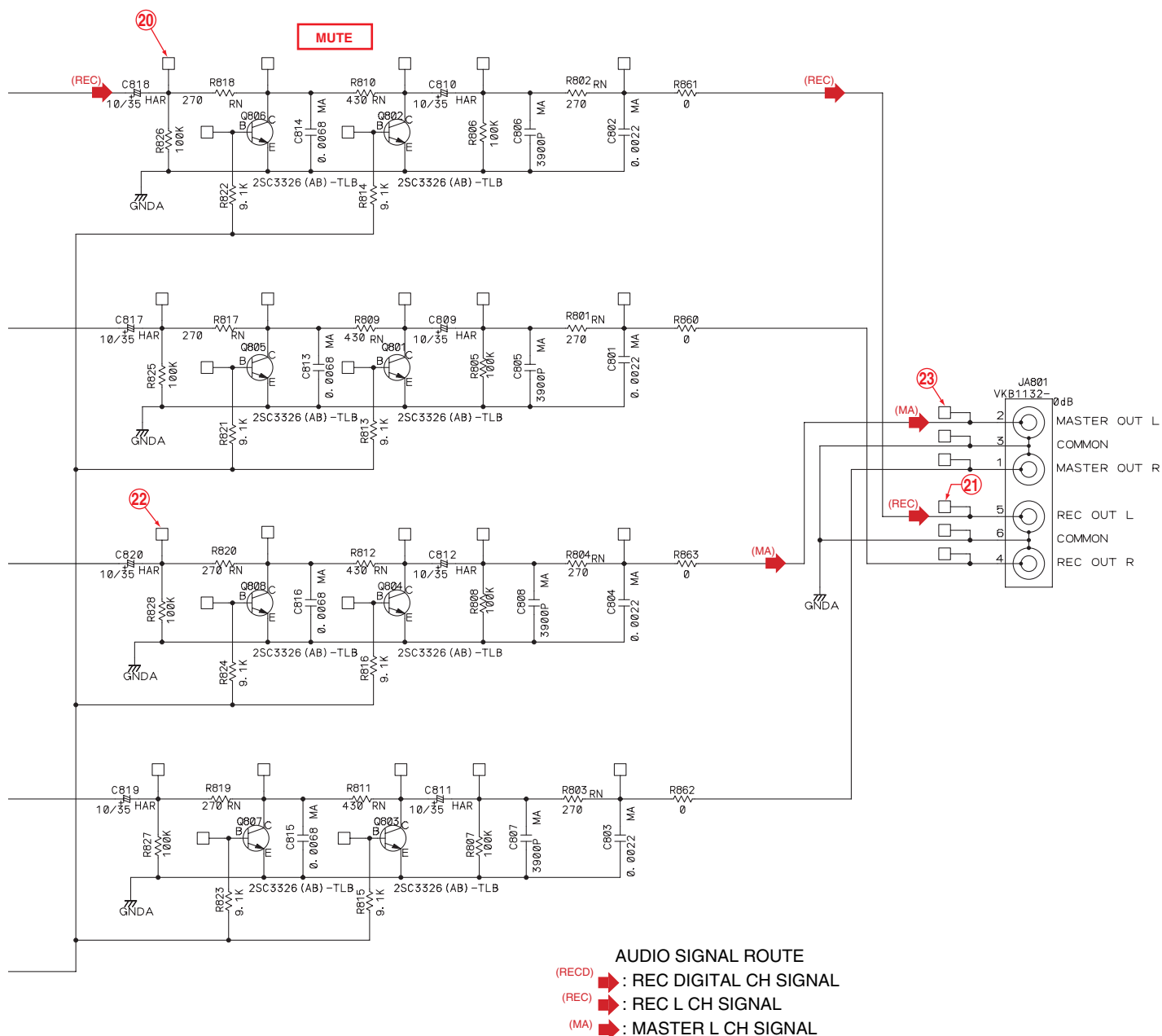
3.8 INPUT ASSY (5/6)

A 5/6 INPUT ASSY (DWX2535)



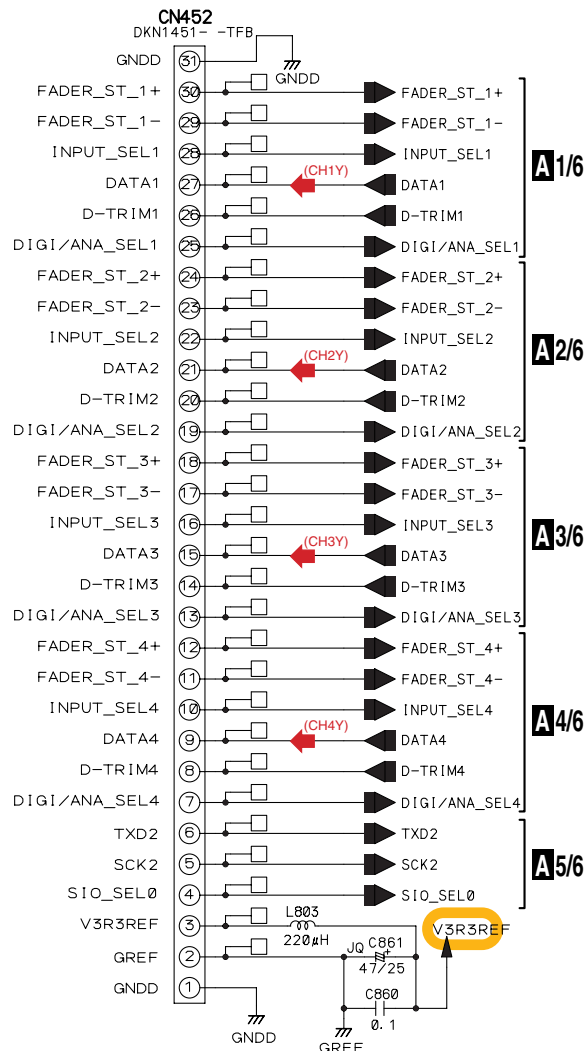
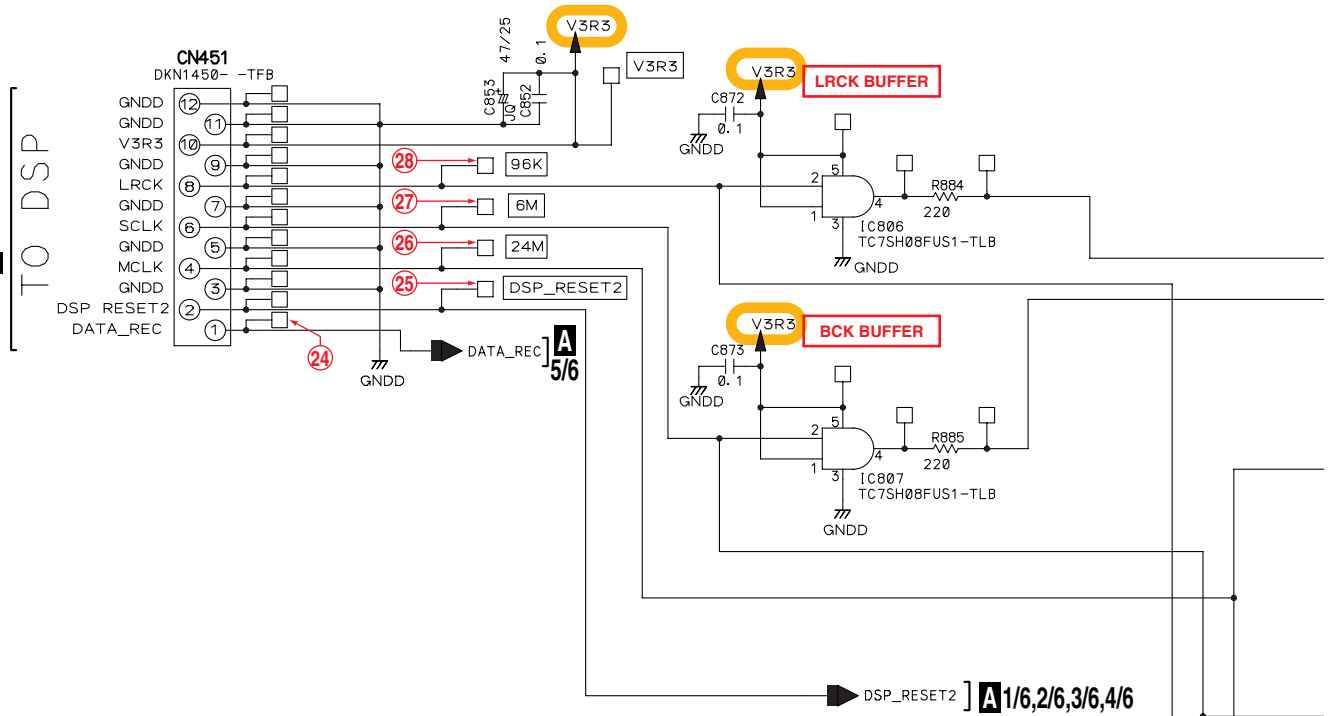
A 5/6

RN  RN1/16SE****D Ω
 RS1/16S***J Ω
 CH  CCSRCH F
 MA  CQMA F
 CKSRYB μF
 HAR  CEHAR μF
 JQ  CEJQ μF



3.9 INPUT ASSY (6/6)

A 6/6 INPUT ASSY (DWX2535)



Notes □ is STBY

RS1/16S***J Ω

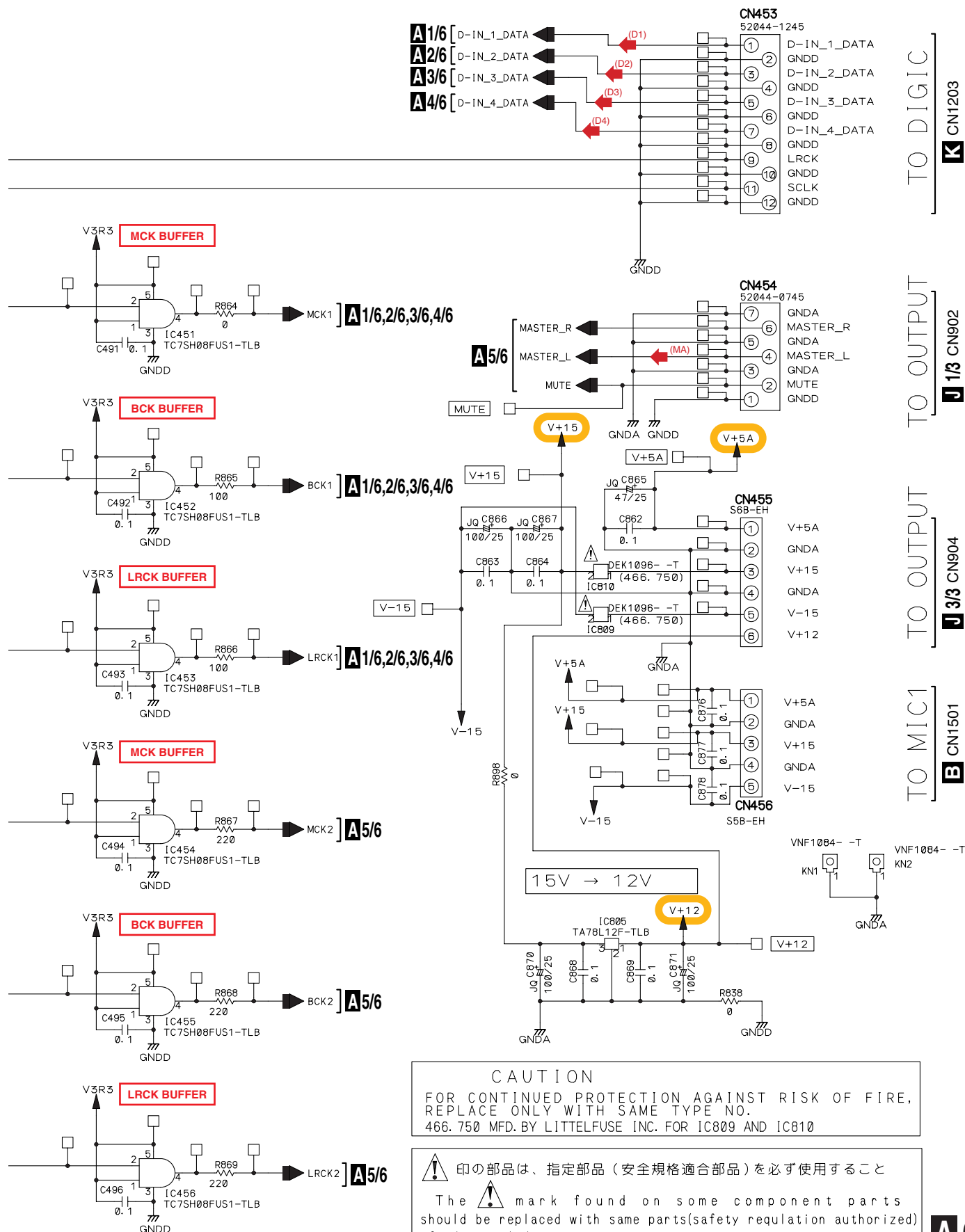
CKSRYB μF

JQ CEJQ μF

AUDIO SIGNAL ROUTE

- (CH1Y) → CH 1 Y CH SIGNAL
- (CH2Y) → CH 2 Y CH SIGNAL
- (CH3Y) → CH 3 Y CH SIGNAL
- (CH4Y) → CH 4 Y CH SIGNAL
- (D1) → CH1 DIGITAL SIGNAL
- (D2) → CH2 DIGITAL SIGNAL
- (D3) → CH3 DIGITAL SIGNAL
- (D4) → CH4 DIGITAL SIGNAL
- (MA) → MASTER L CH SIGNAL

A 6/6



3.10 MIC 1 ASSY

B MIC1 (DWX2542)

A

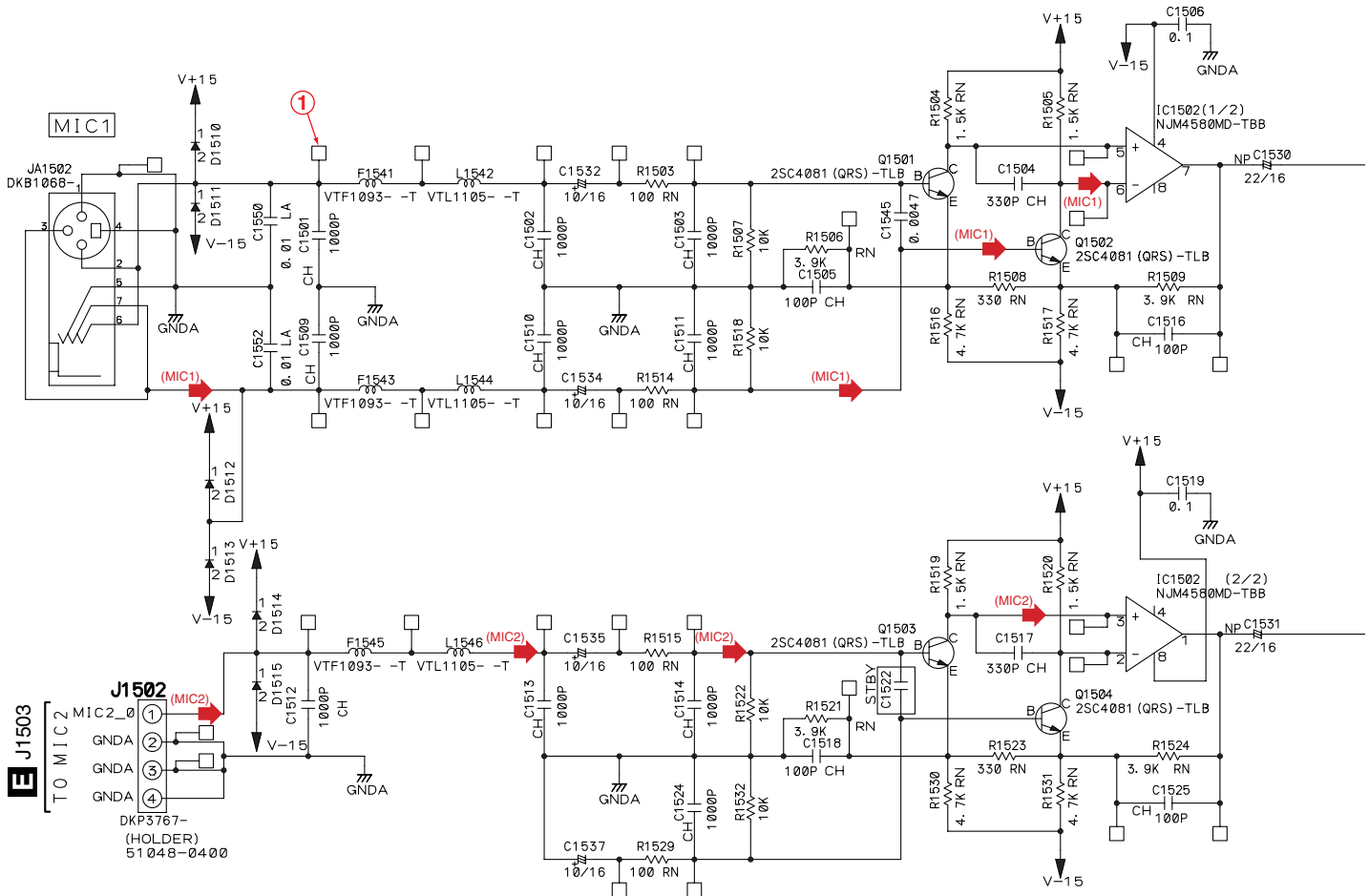
B

C

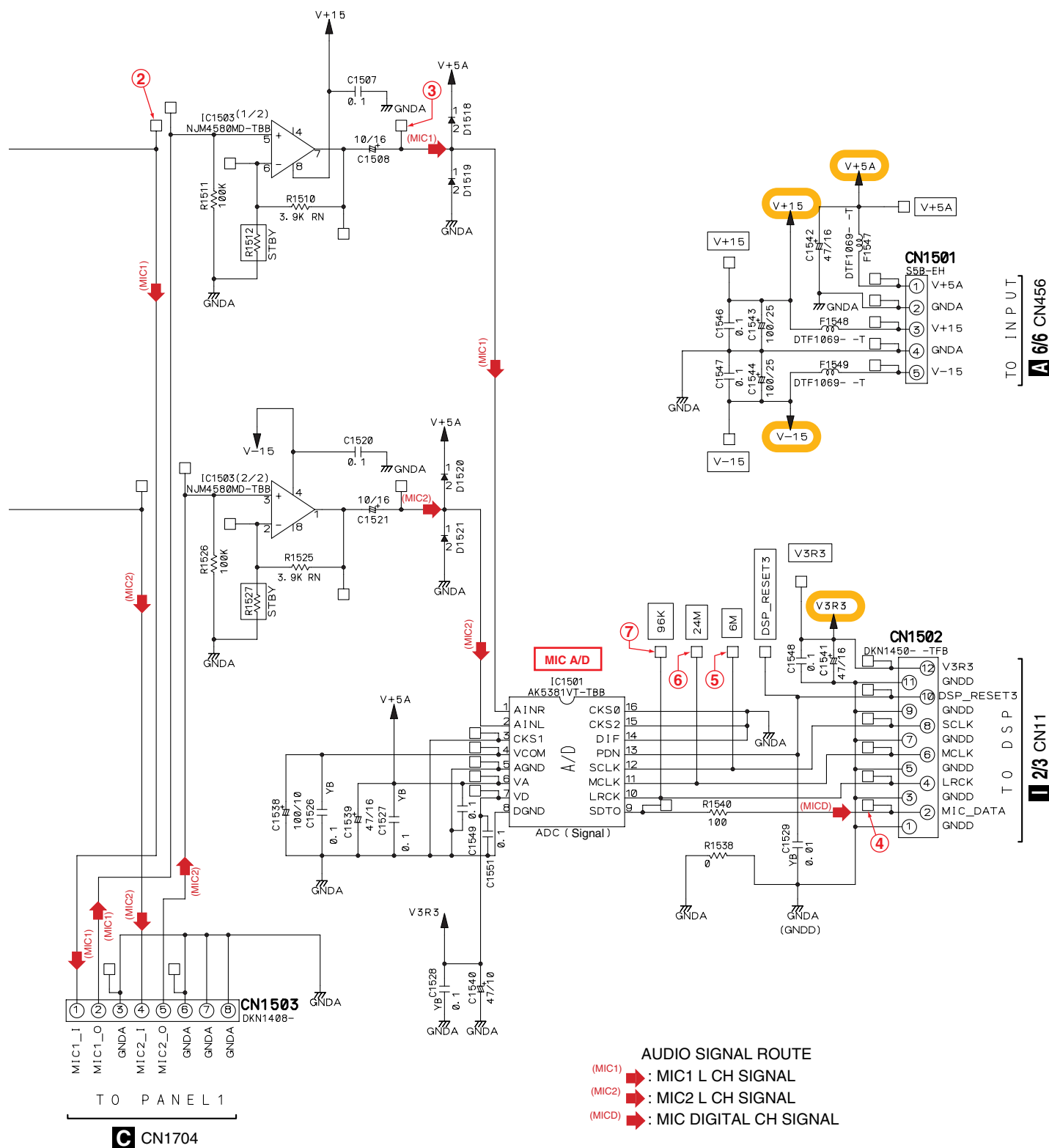
D

E

F



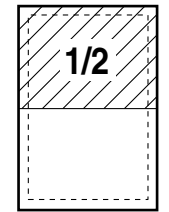
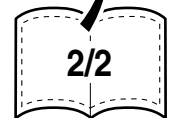
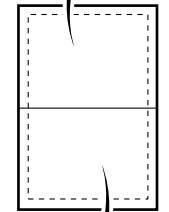
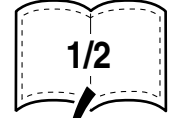
Notes	
VM	~V~ RD1/2VM*** Ω
RN	~V~ RN1/16SE***D Ω
CH	~V~ RS1/16S***J Ω
LA	~V~ CFTLA F
~V~	CKSRYB μF
NP	~V~ CEALNP μF
~V~	CEAL μF



3.11 PANEL 1 ASSY

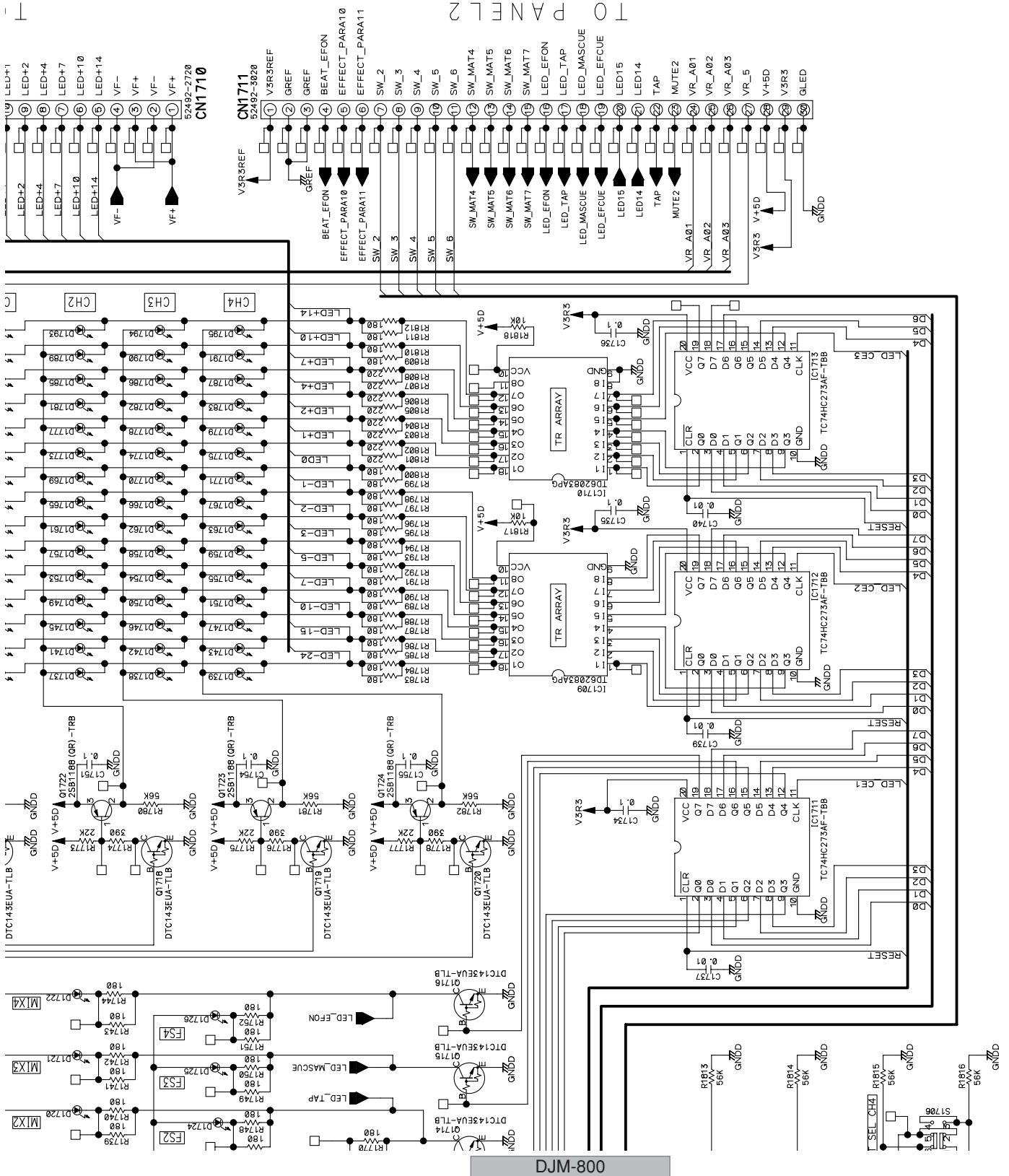
C PANEL1 ASSY (DWX2552)(1/2)

Large size
SCH diagram



	CURVE CHRST	CLICK Exist/Noexist
DCS1072	A Curve	No exist
DCS1095	Special Curve	Exist
DCS1065	B Curve	Exist
DCS1086	B Curve	No exist

F CN2102



A

C

PANEL1 ASSY (DWX2552)(2/2)

B

C

D

E

F

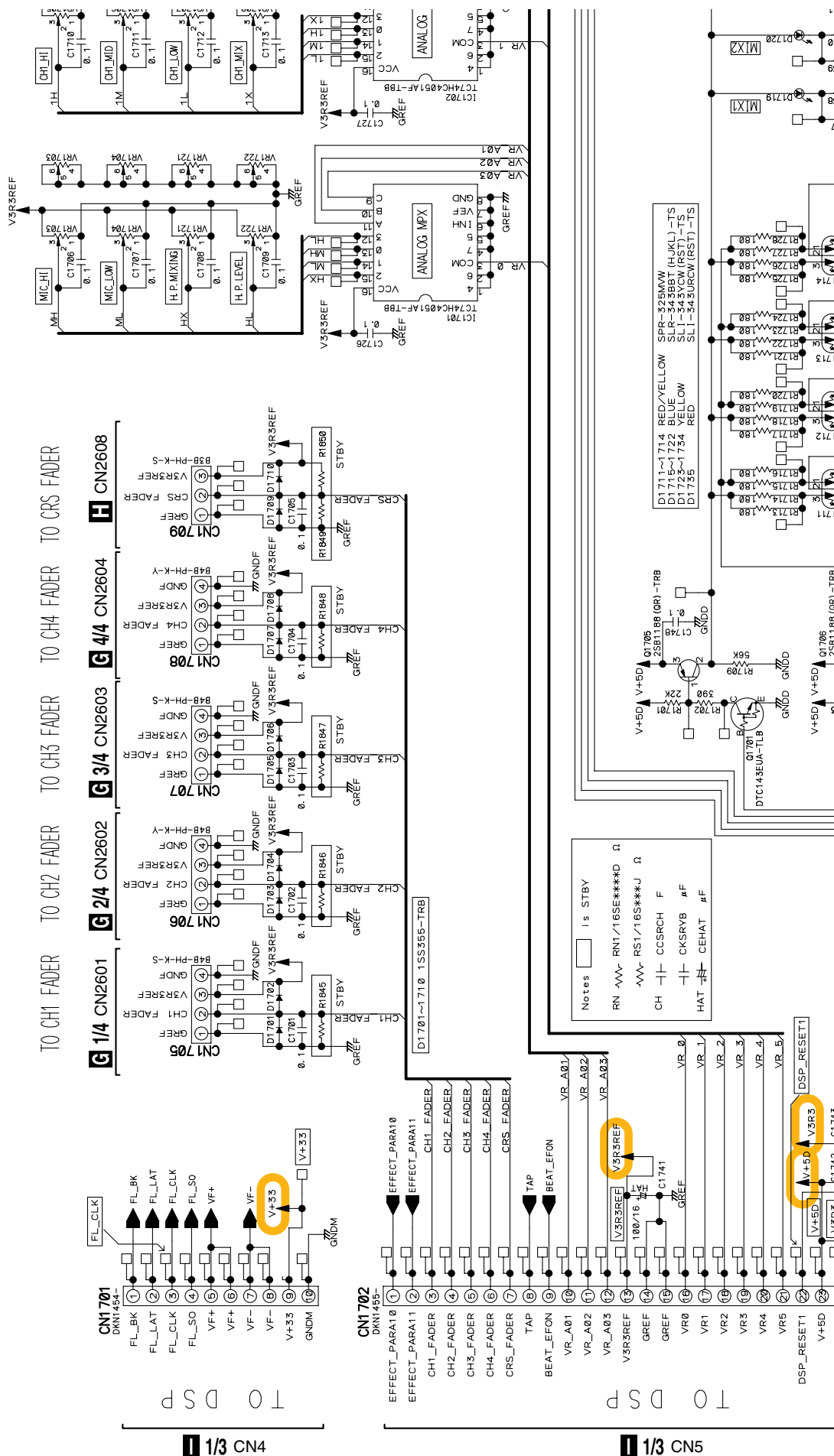
Large size
SCH diagram

1/2

2/2

2/2

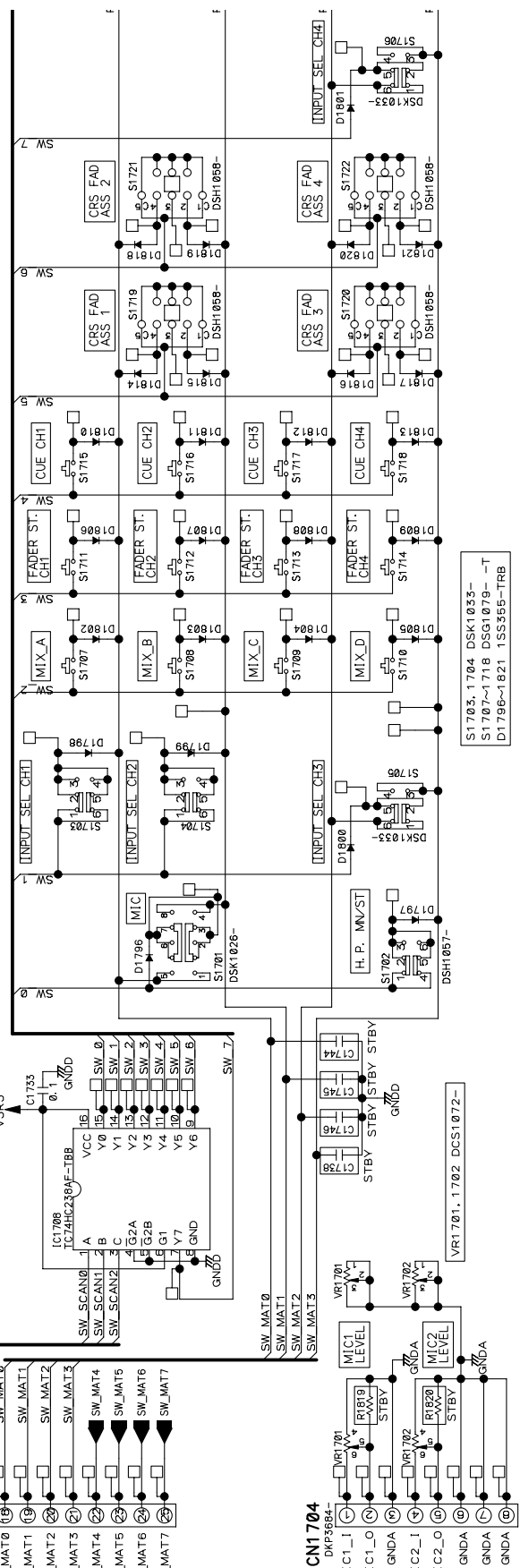
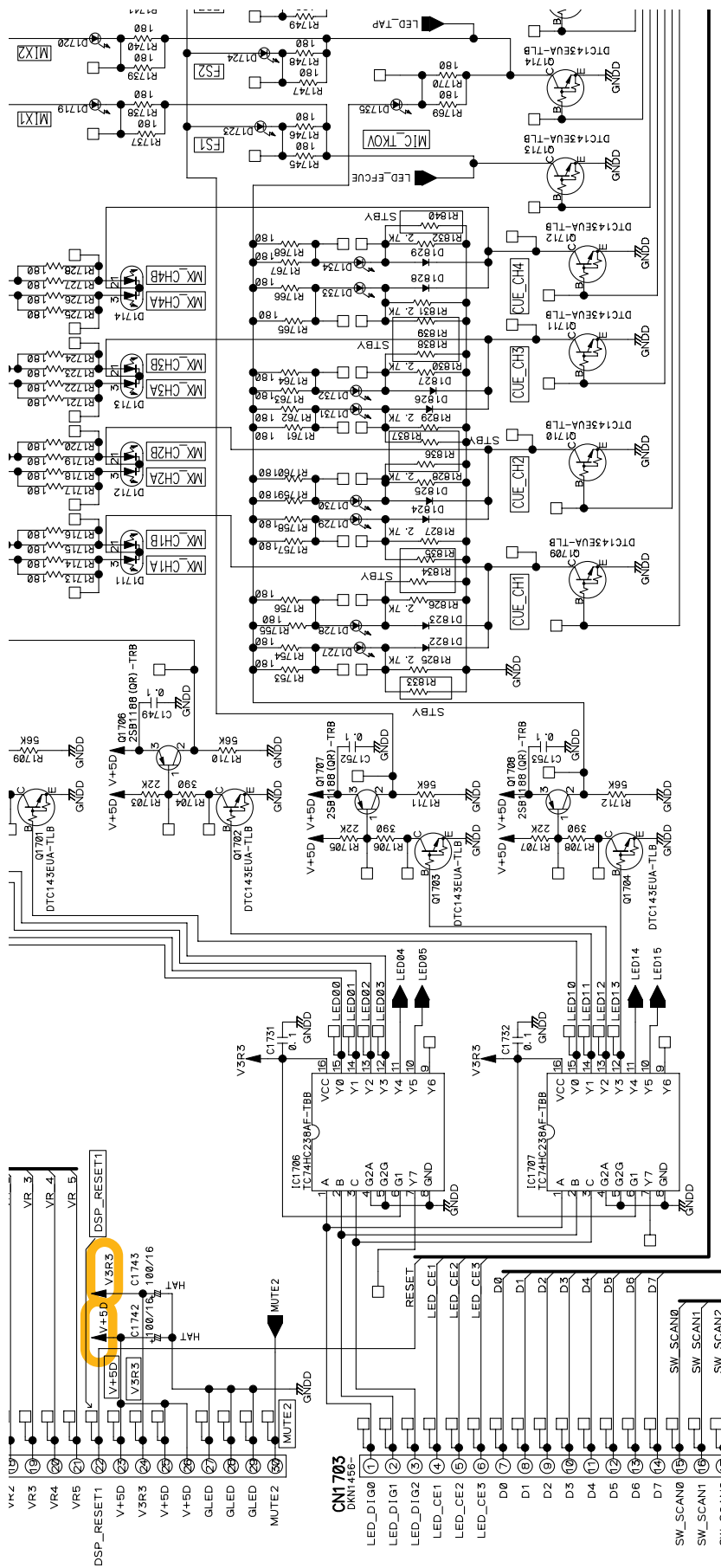
VR1703~1707= DCS1085-
VR1708~1711= DCS1085-
VR1712~1715= DCS1085-
VR1716~1719= DCS1085-
VR1720~1723= DCS1085-
VR1724~1727= DCS1085-
VR1728~1731= DCS1085-
VR1732~1735= DCS1085-
VR1736~1739= DCS1085-
VR1740~1743= DCS1085-



1/3 CN4

DJM-800

1/3 CN5

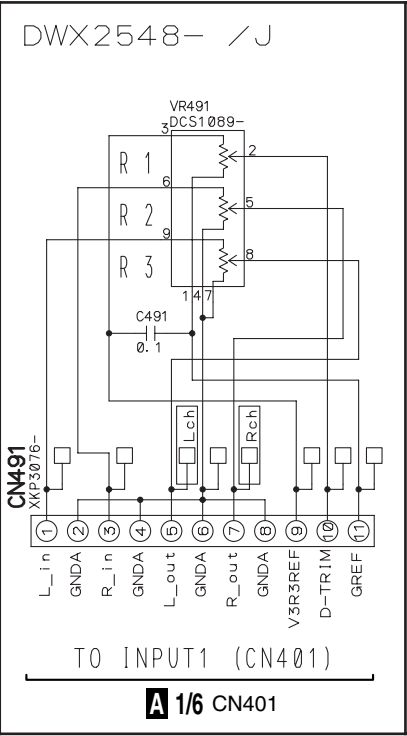


1 2 3 4

3.12 TRIM1 to TRIM 4 ASSYS

A

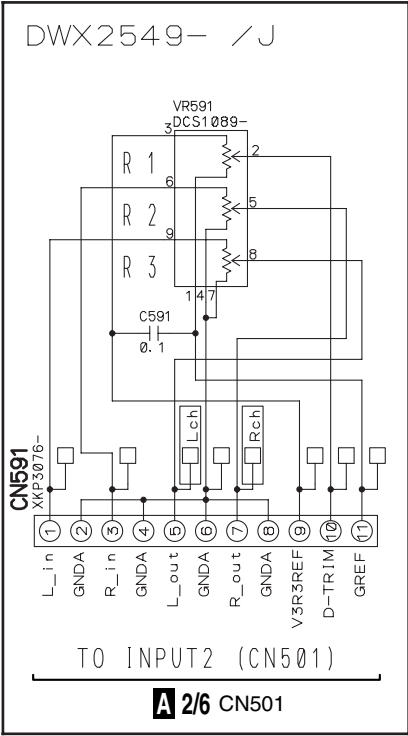
D 4/4 TRIM1 ASSY (DWX2548)



B

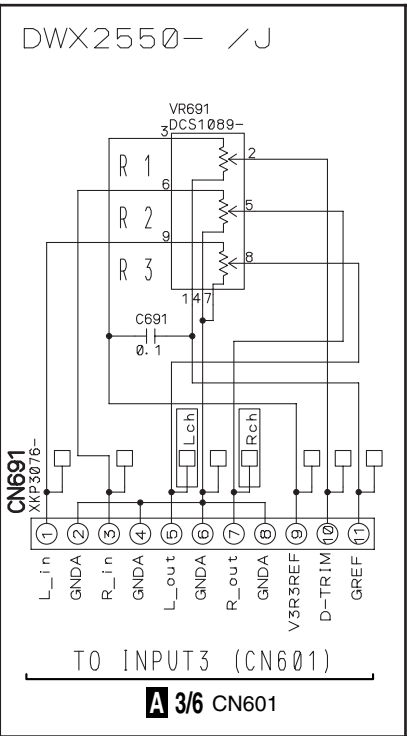
C

D 3/4 TRIM2 ASSY (DWX2549)



D

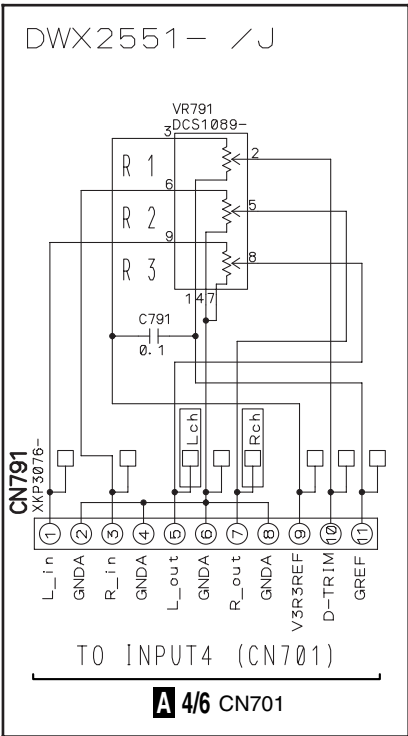
D 2/4 TRIM3 ASSY (DWX2550)



E

F

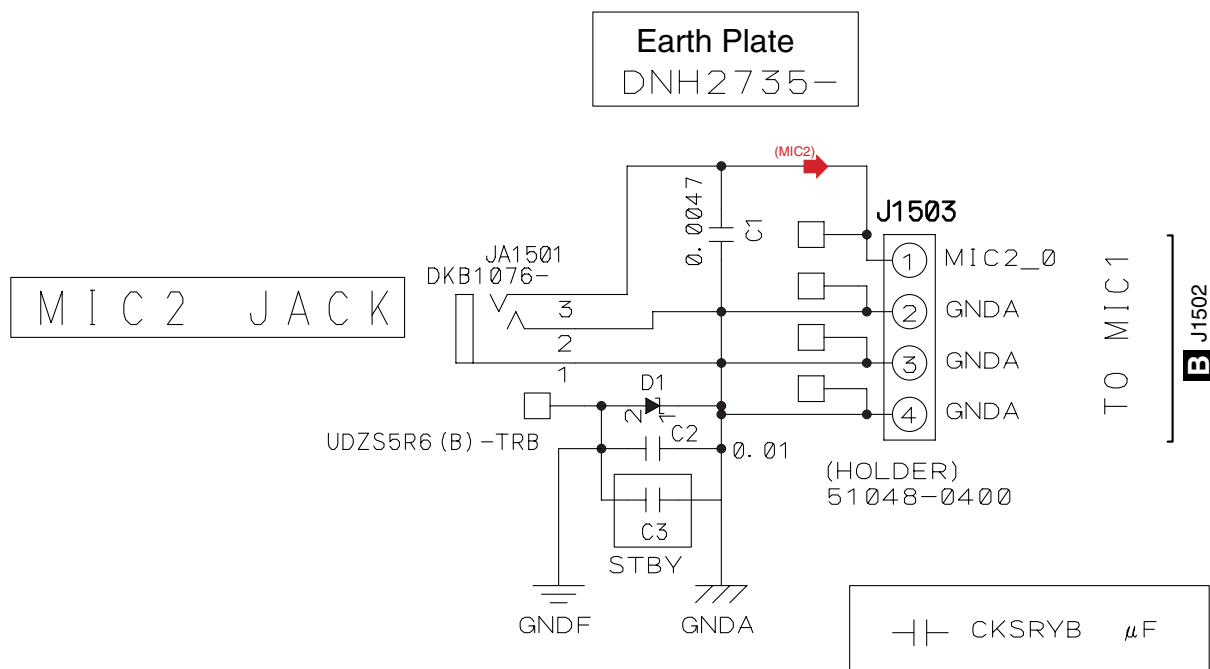
D 1/4 TRIM4 ASSY (DWX2551)



D 1/4-4/4

D 1/4-4/4

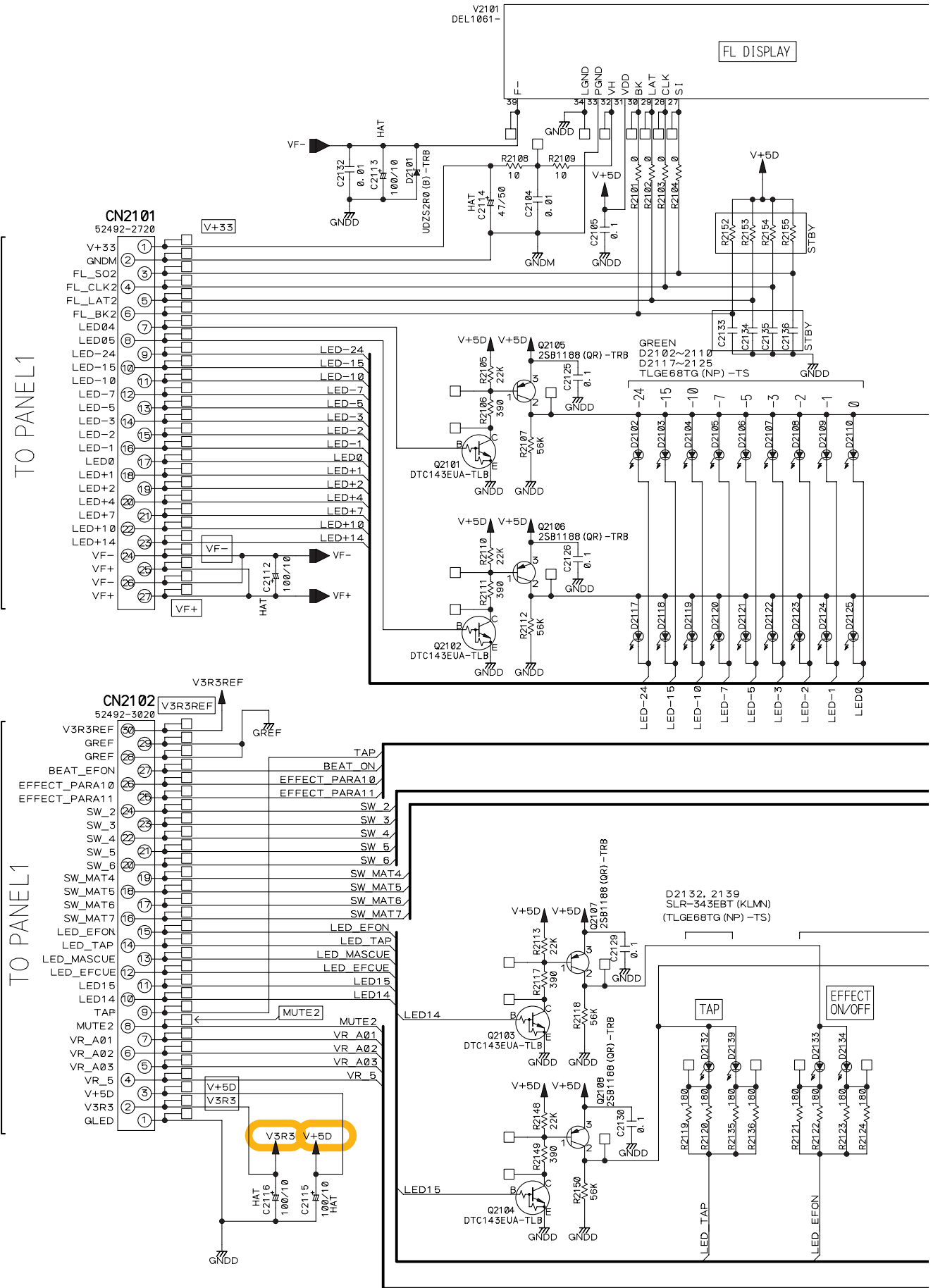
E MIC2 (DWX2543)



AUDIO SIGNAL ROUTE
(MIC2) → : MIC2 L CH SIGNAL

3.14 PANEL 2 ASSY

F PANEL2 ASSY (DWX2554)

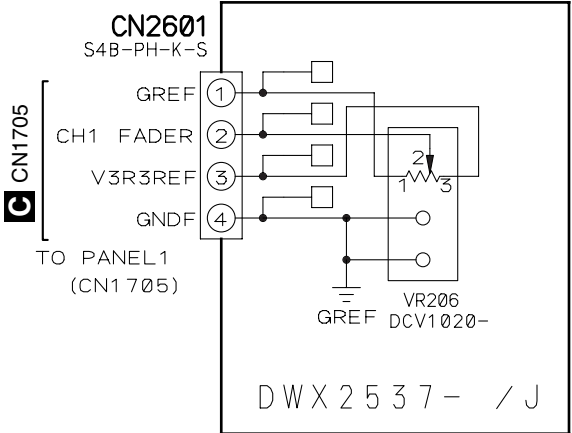




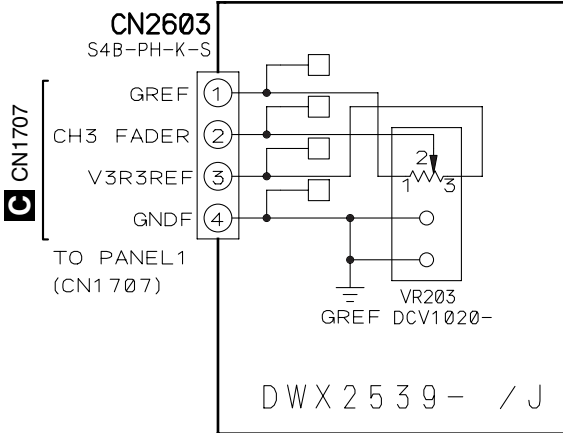
1 2 3 4

3.15 CHFD 1 to CHFD 4 and CRSFD ASSYS

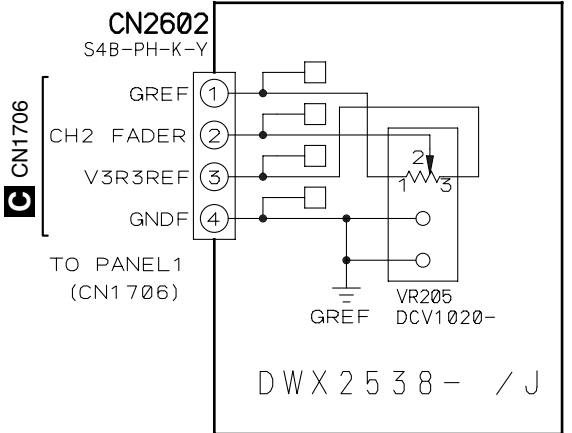
G 1/4 CHFD1(DWX2537)



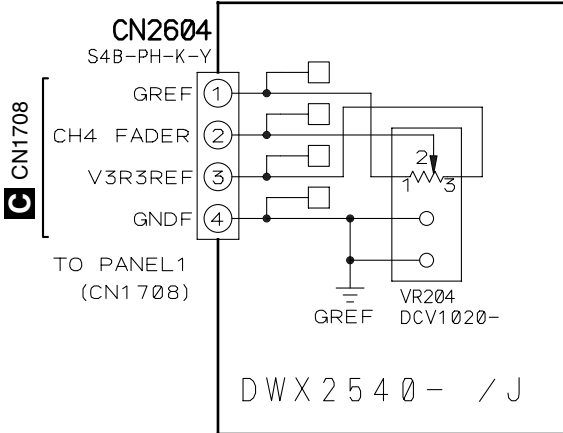
G 3/4 CHFD3(DWX2539)



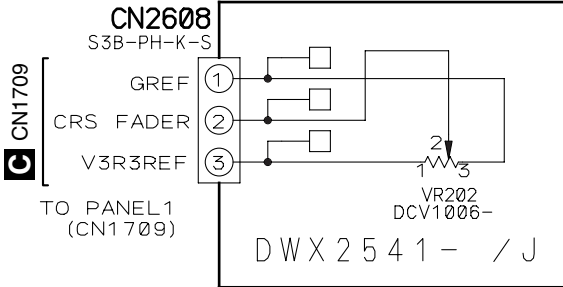
G 2/4 CHFD2(DWX2538)



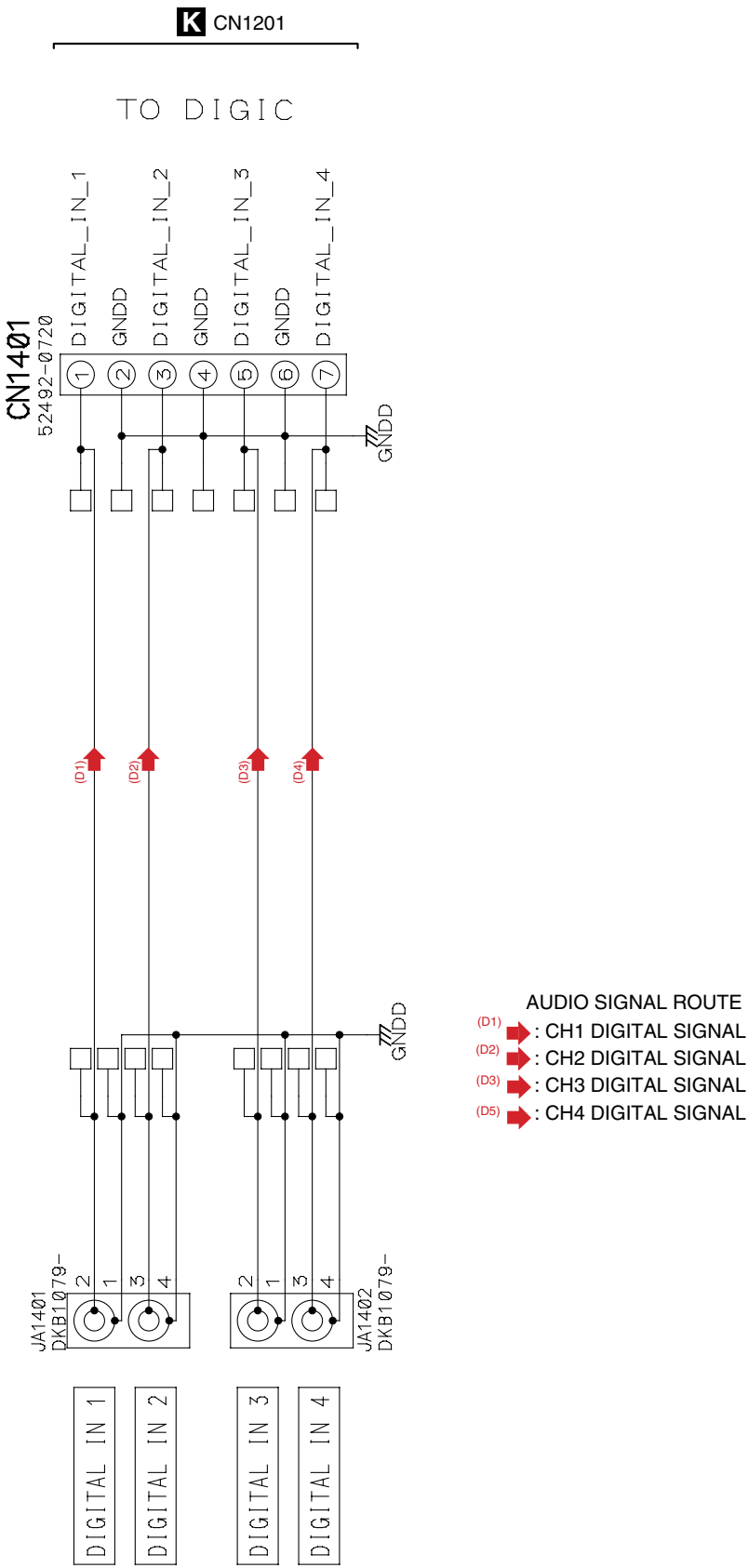
G 4/4 CHFD4(DWX2540)



H CRSFD(DWX2541)



L DIGIA ASSY (DWX2555)



3.17 DSP ASSY (1/3)

1/3 DSP ASSY (DWX2534)(1/2)

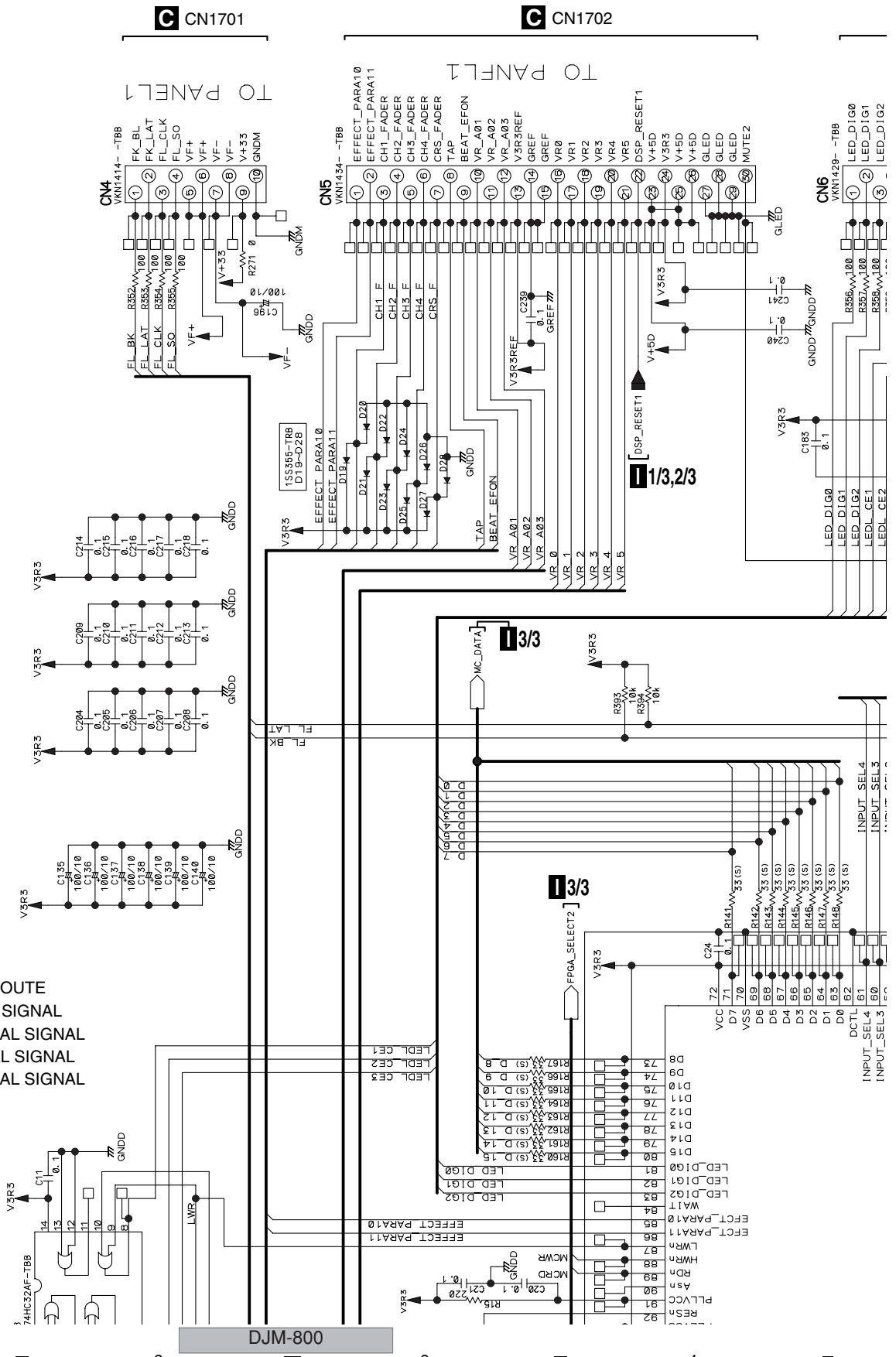
Large size
SCH diagram

1/2

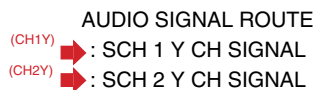
2/2

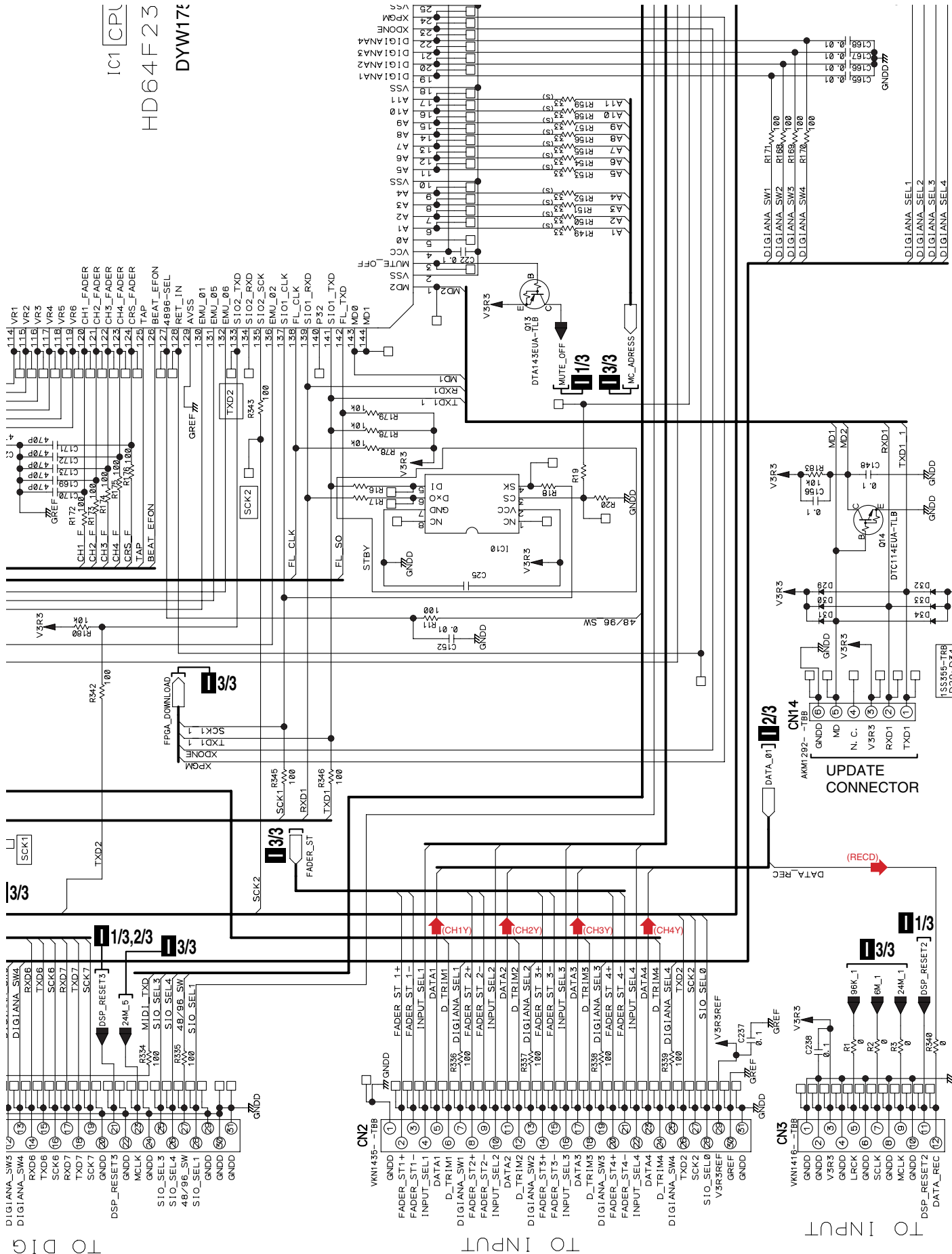
1/2

AUDIO SIGNAL ROUTE
(SDD) : SEND DIGITAL SIGNAL
(RND) : RETURN DIGITAL SIGNAL
(BOD) : BOOTH DIGITAL SIGNAL
(MA1D) : MASTER DIGITAL SIGNAL



F





I

1/2

2/2

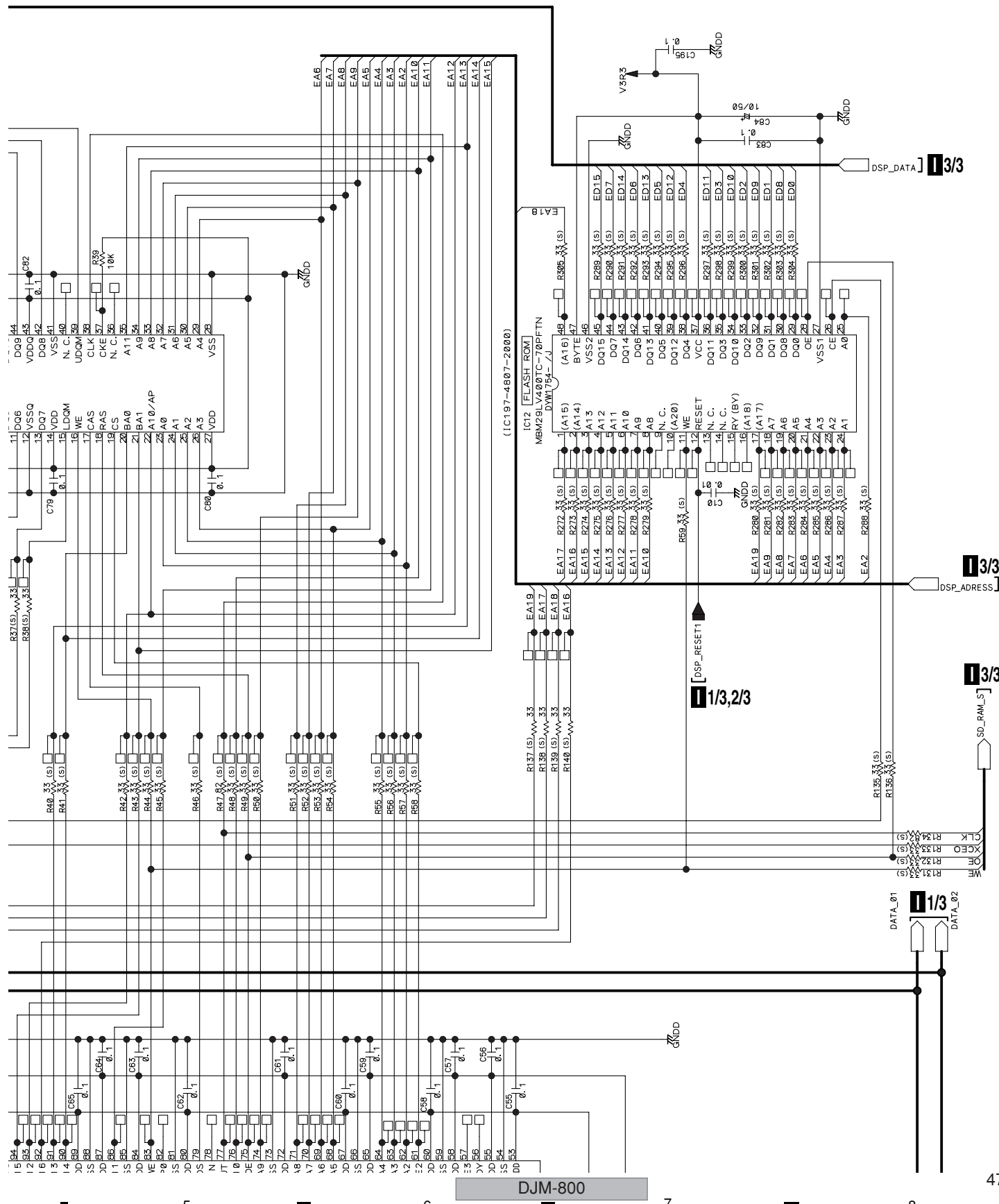
1/2

MI C1

11/

13/

4



A

2/3 DSP ASSY (DWX2534) (2/2)

B

C

Large size
SCH diagram

1/2

2/2

2/2

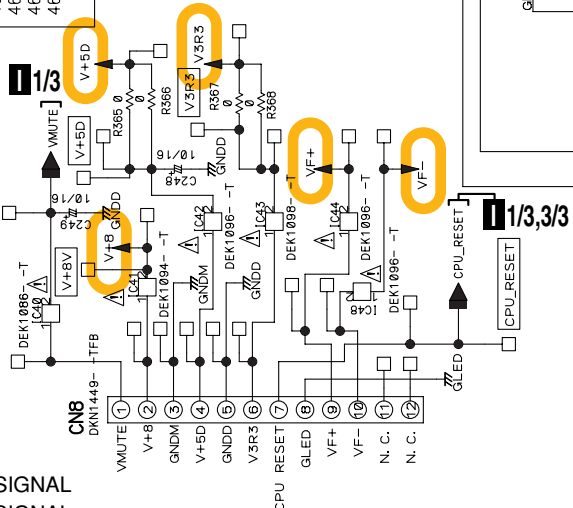
D

E

F

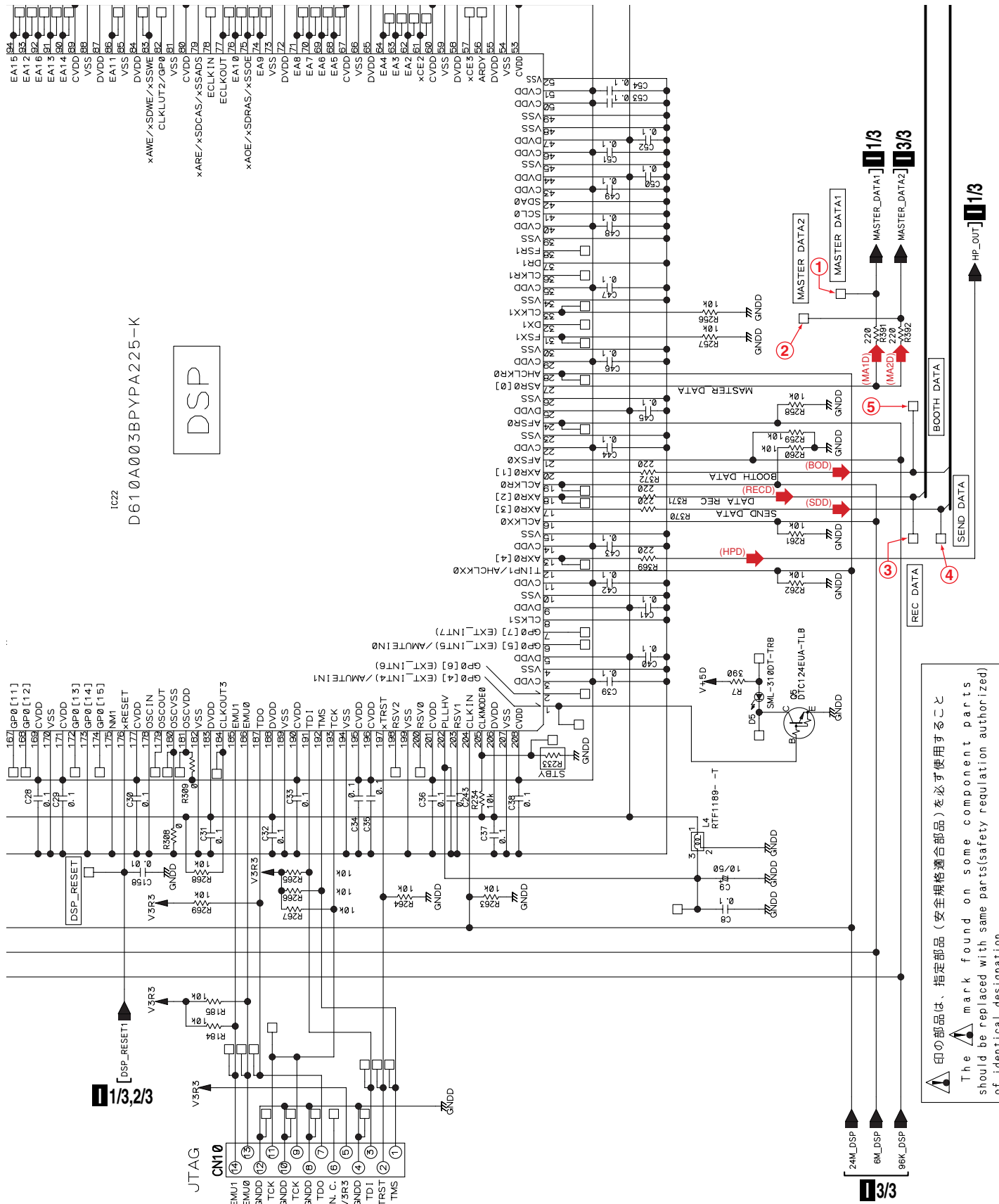
- AUDIO SIGNAL ROUTE
- (CH1Y) ➡ SCH 1 Y CH SIGNAL
 - (CH2Y) ➡ SCH 2 Y CH SIGNAL
 - (MA1D) ➡ MASTER DIGITAL CH SIGNAL
 - (MA2D) ➡ MASTER DIGITAL CH SIGNAL
 - (RECD) ➡ REC DIGITAL CH SIGNAL
 - (BOD) ➡ BOOTH DIGITAL CH SIGNAL
 - (SDD) ➡ SEND DIGITAL CH SIGNAL
 - (HPD) ➡ HP DIGITAL CH SIGNAL

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE NO.
466.125 MFD. BY LITTELFUSE INC. FOR IC40
466.375 MFD. BY LITTELFUSE INC. FOR IC41
466.1.25 MFD. BY LITTELFUSE INC. FOR IC43
466.750 MFD. BY LITTELFUSE INC. FOR IC42, IC44 AND IC48



From SW
POWER SUPPLY
CN201

Notes	is STBY
RN	~RN1/16S*****D Ω
(S)	~RS1/16S*****J Ω
CH	~RS1/16S*****J Ω
CH	~CCSRCH F
CH	~CK5RYB μF
CH	~CEW μF



A

B

C

D

E

F

1 3/3 DSP ASSY (DWX2534)(1/2)

A

B

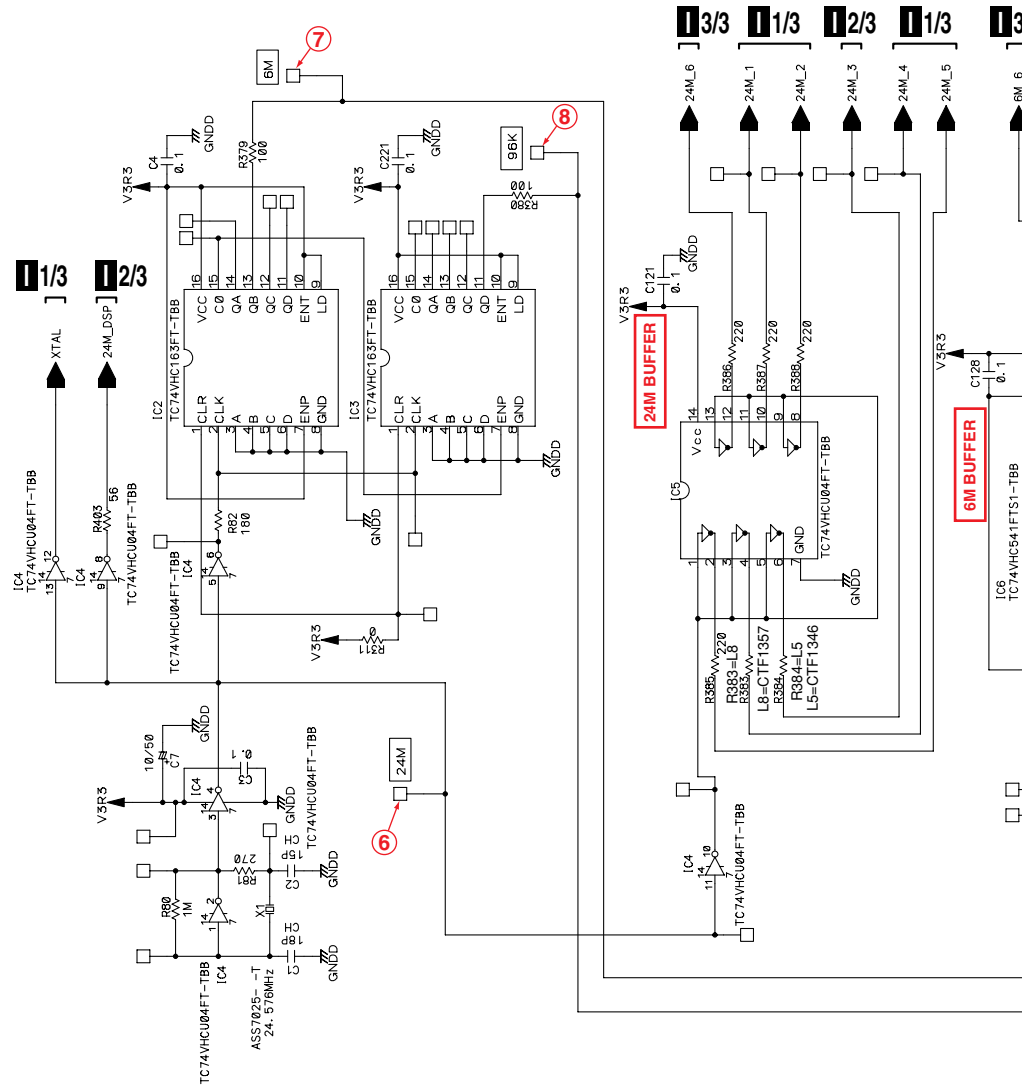
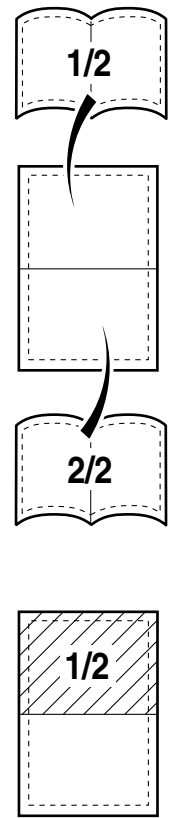
C

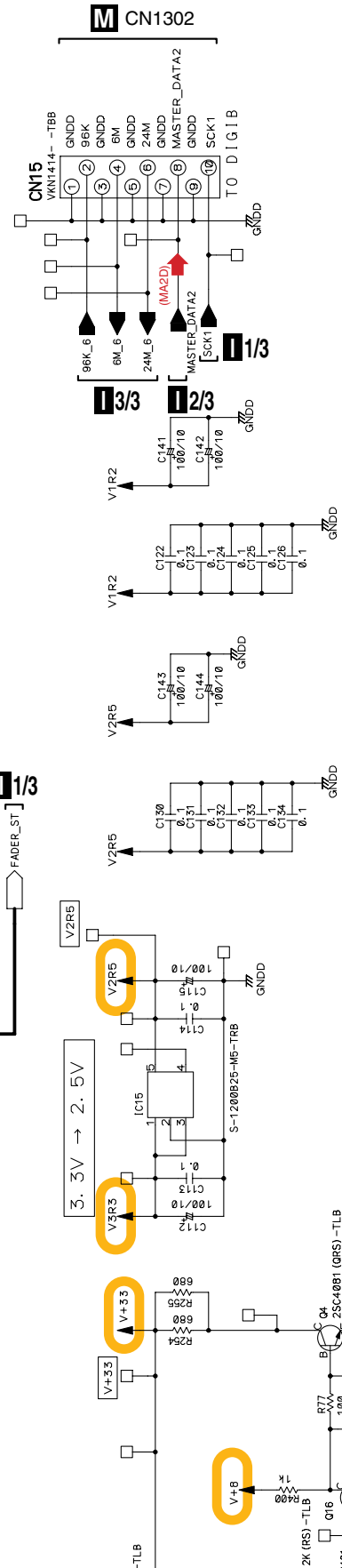
D

E

F

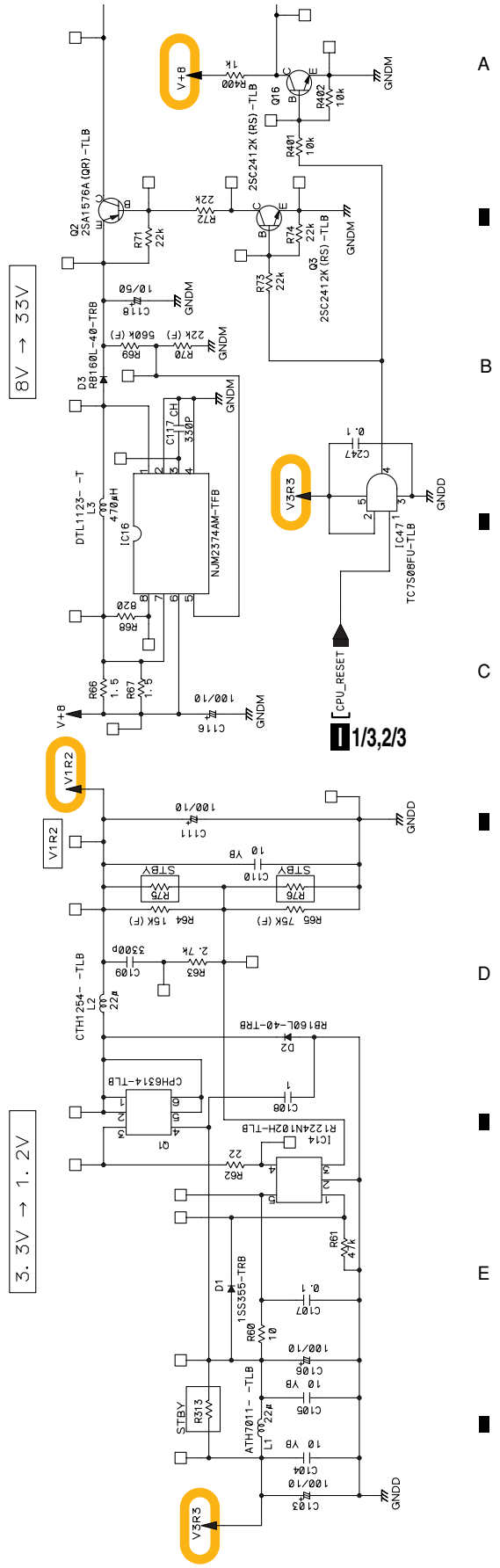
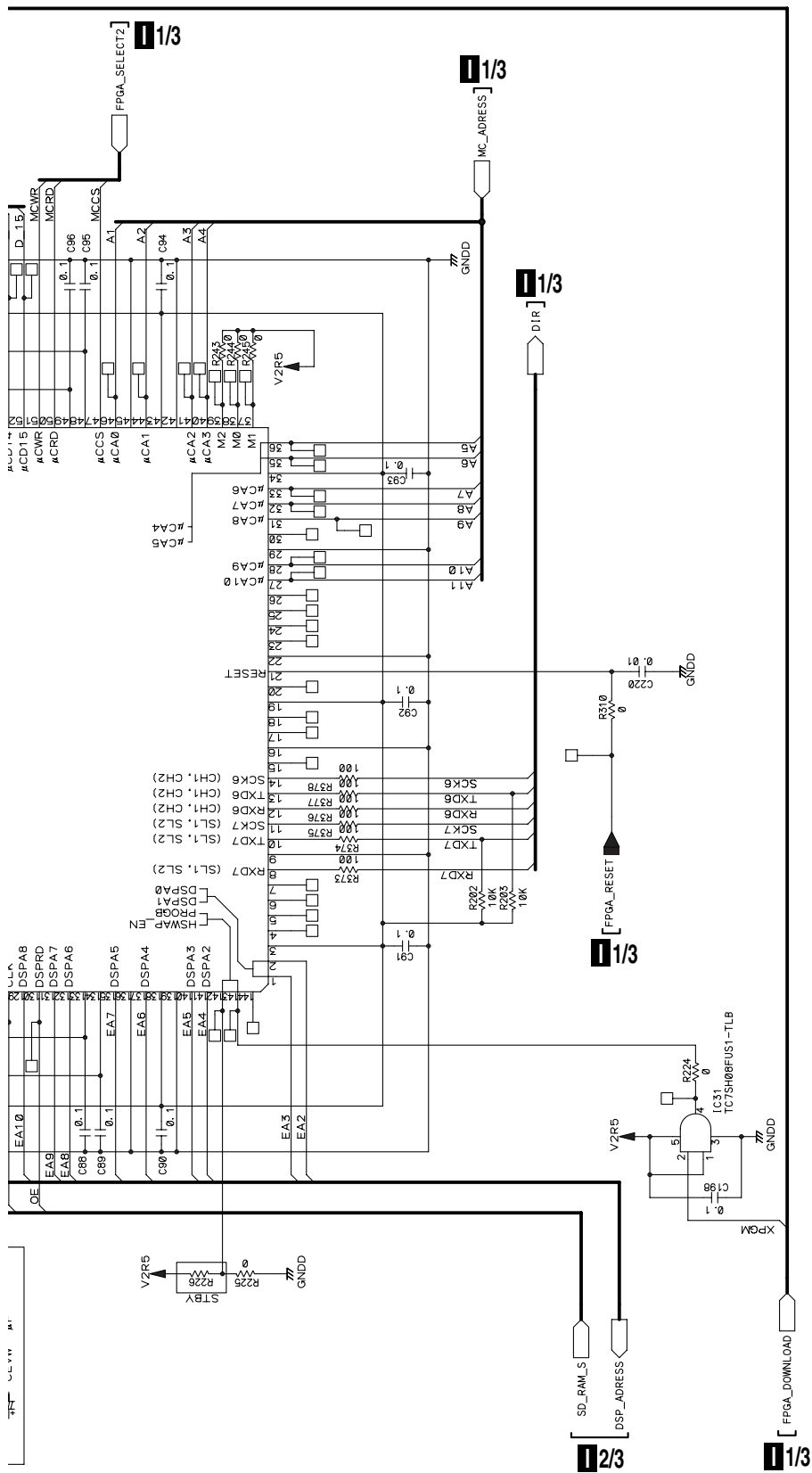
Large size
SCH diagram





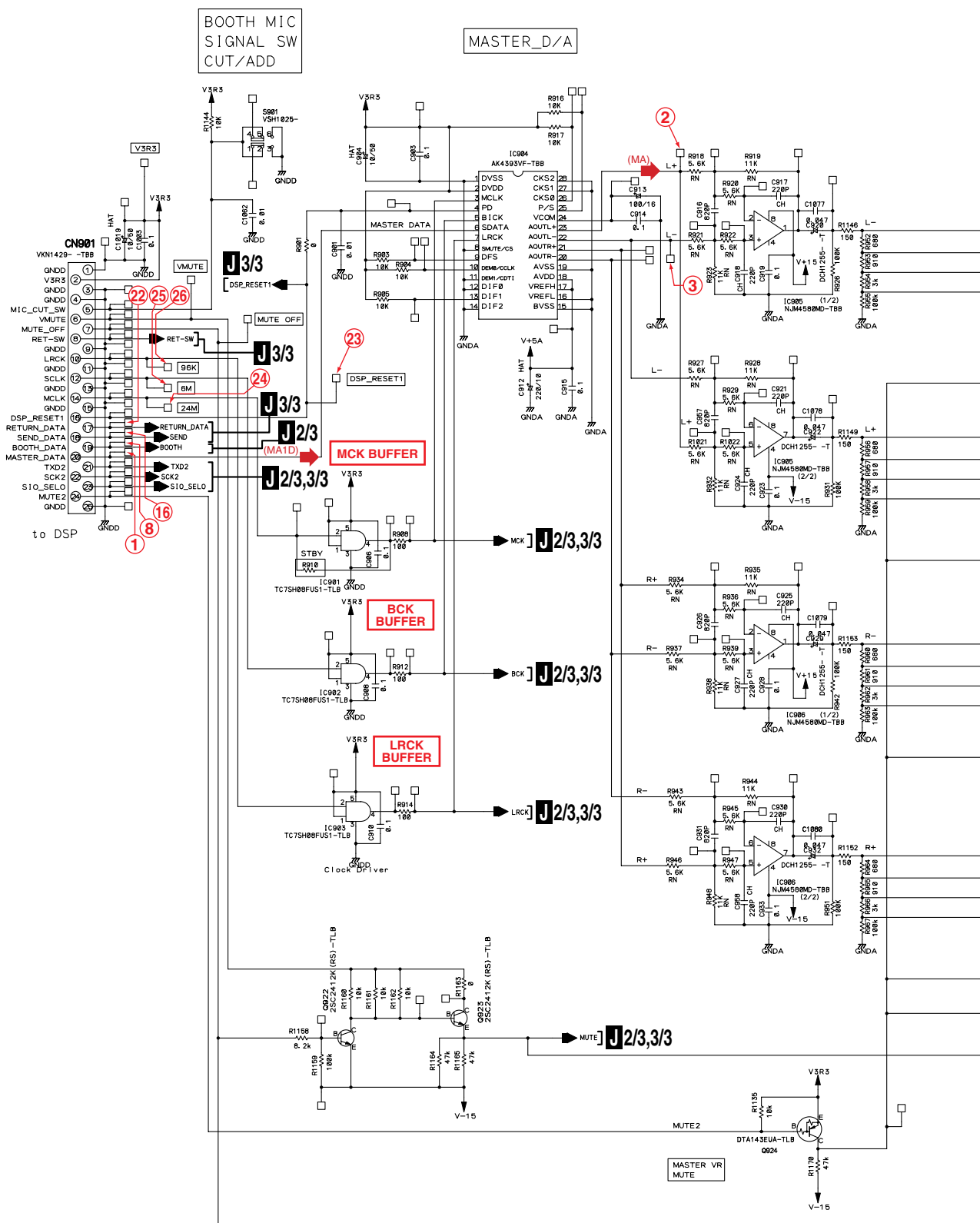
Notes ☐ is STBY

RN	~	RN1/1SE****D	Ω
(S)	~	RS1/16SS**KJ	Ω
	~	RS1/16S**KJ	Ω
CH	-	CCSRCH	F
	-	CKSRYB	μF
	-	CEW	μF

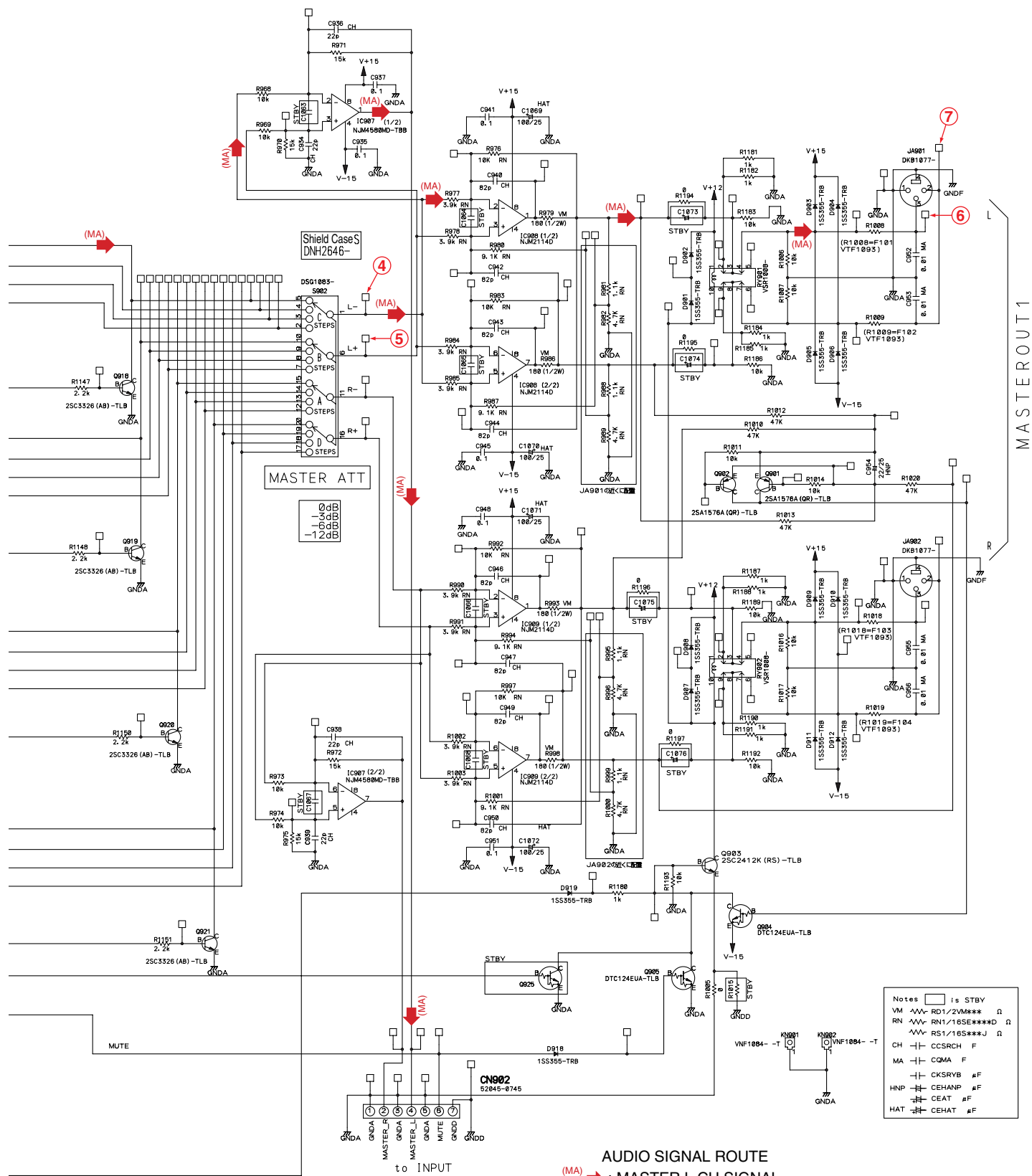


3.20 OUTPUT ASSY (1/3)

J 1/3 OUTPUT ASSY (DWX2544)

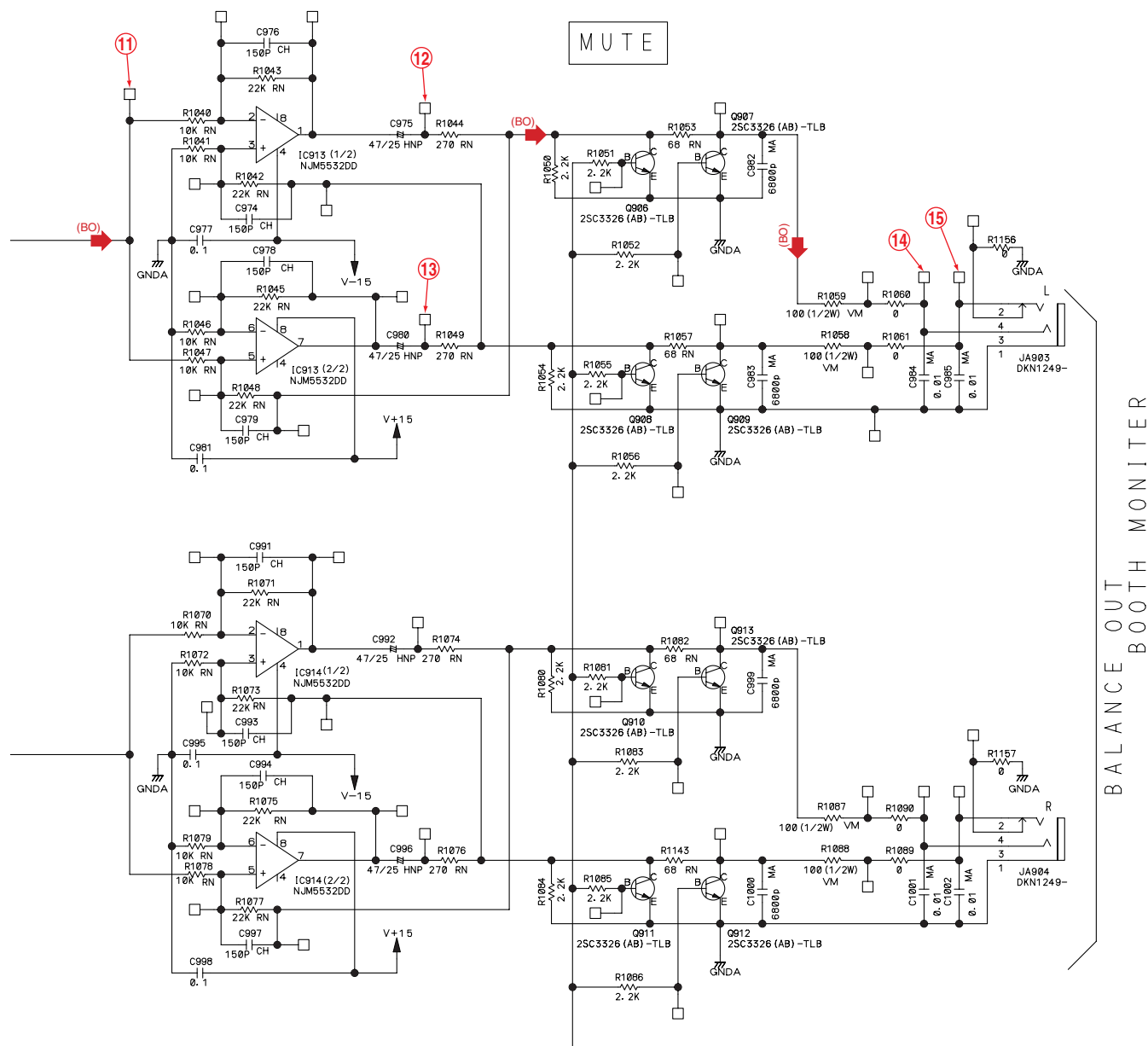


J 1/3



A





AUDIO SIGNAL ROUTE

(BO) : BOOTH L CH SIGNAL

(BOD)  : BOOTH L CH SIGNAL
 : BOOTH DIGITAL CH SIGNAL

Notes is STBY

VM $\sim\sim\sim$ RD1/2VM*** Ω

RN $\sim\sim\sim$ RN1/16SE****D Ω

$\sim\sim\sim$ RS1/16S***J Ω

CH ---|--- CCSRCH F

MA ---|--- CQMA F

---|--- CKSRyb μF

HAT ---|--- CEHAT μF

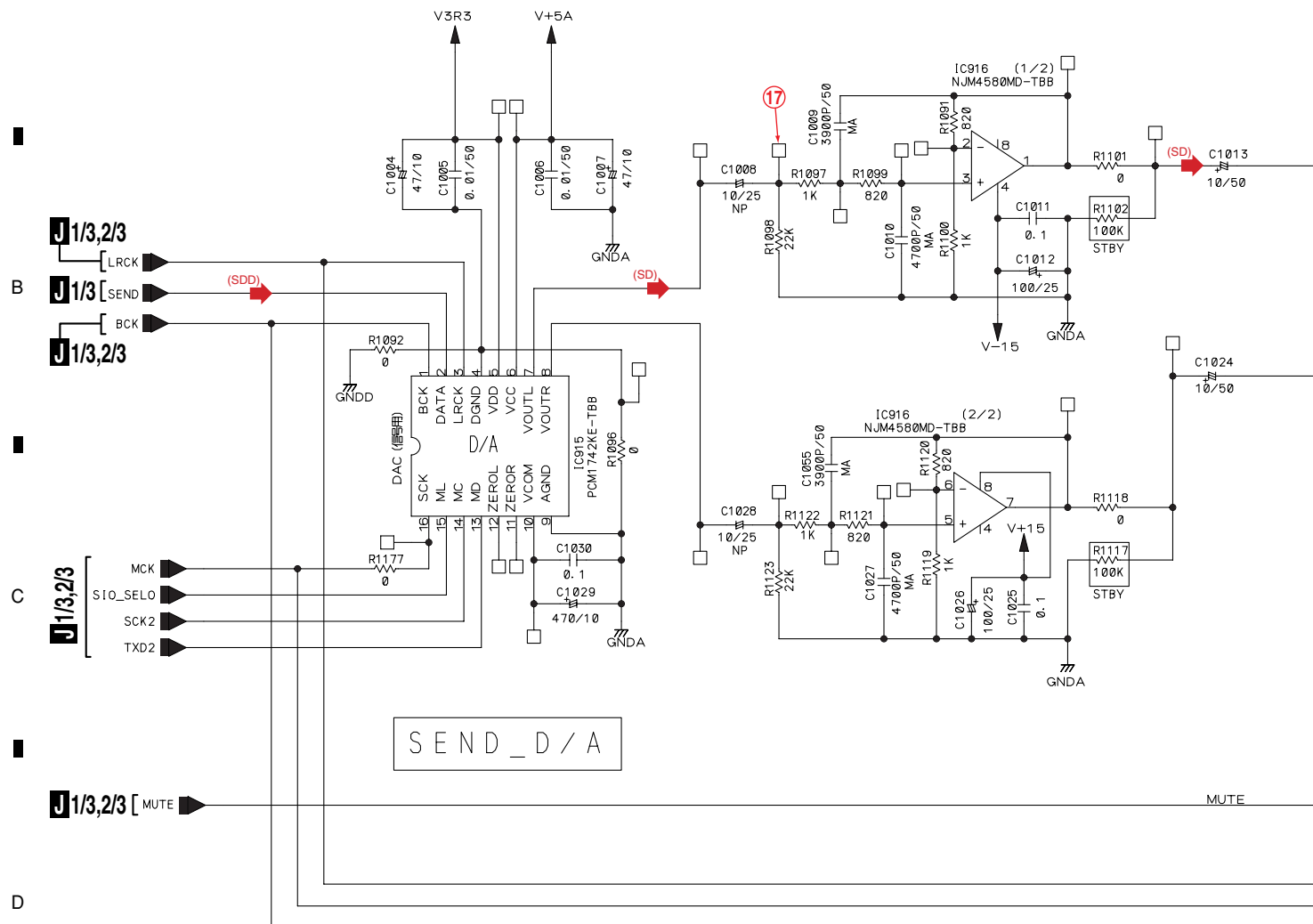
---|--- CEAT μF

HNP ---|--- CEHNP μF

3.22 OUTPUT ASSY (3/3)

J 3/3 OUTPUT ASSY (DWX2544)

A



D

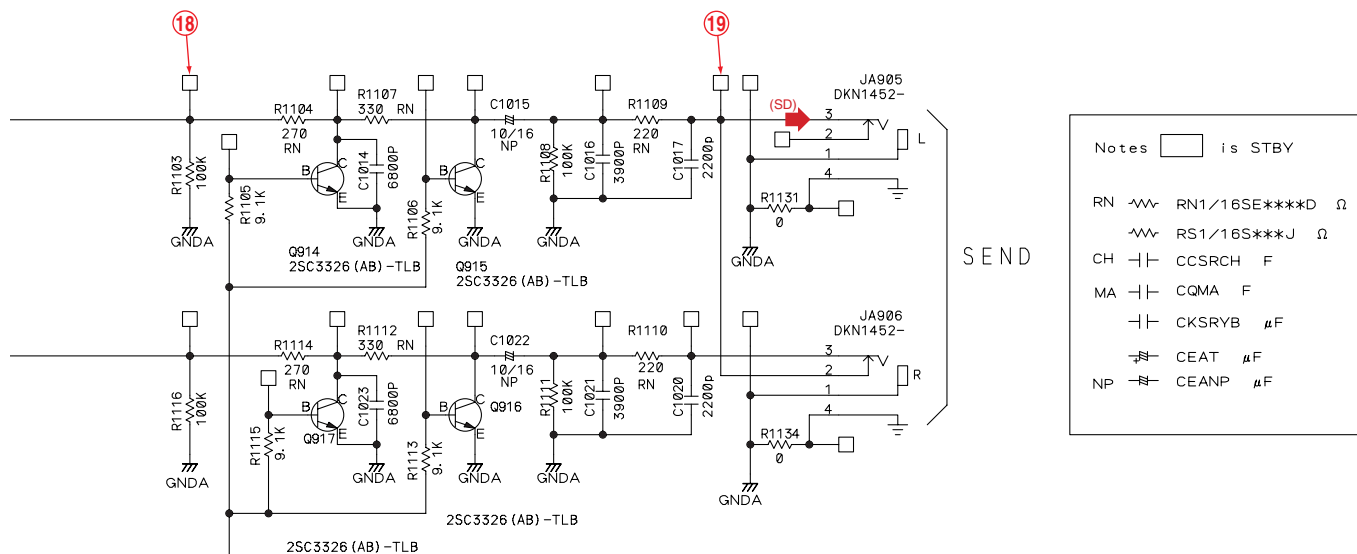
E

F

J 3/3

58

DJM-800



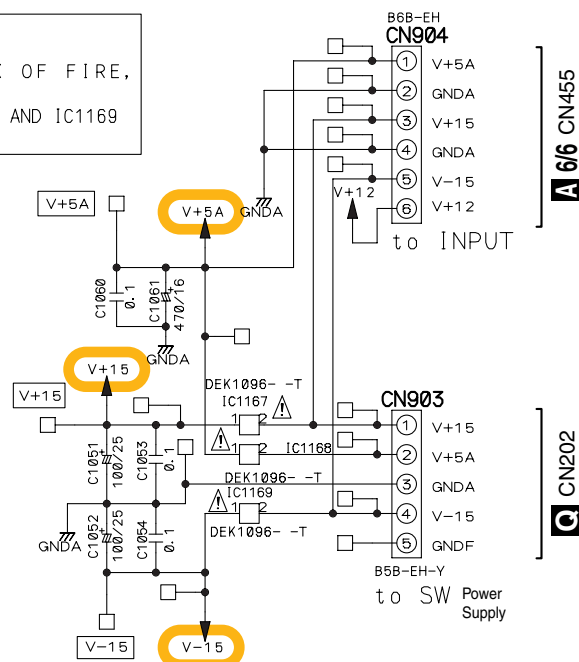
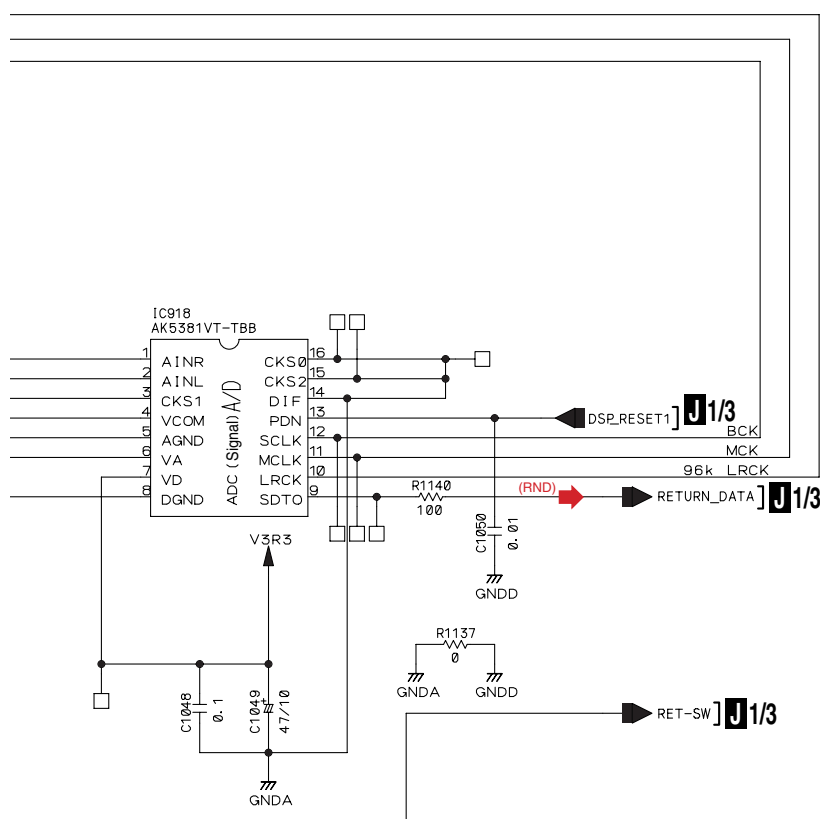
印の部品は、指定部品（安全規格適合部品）を必ず使用すること

The Δ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation

CAUTION

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

466. 750 MFD. BY LITTELFUSE INC. FOR IC1167, IC1168 AND IC1169



AUDIO SIGNAL ROUTE

(SD) $\rightarrow$: SEND L CH SIGNAL

(SDD) $\rightarrow$: SEND DIGITAL CH SIGNAL

(RN) $\rightarrow$: RETURN L CH SIGNAL

(RND) $\rightarrow$: RETURN DIGITAL CH SIGNAL

K DIGIC ASSY (DWX2547)(1/2)

TO DSP

1/2

2/2

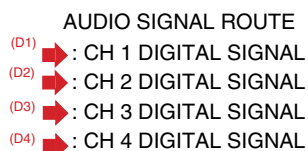
1/2

(D1)  : CH 1 DIGITAL SIGNAL
(D2)  : CH 2 DIGITAL SIGNAL
(D3)  : CH 3 DIGITAL SIGNAL
(D4)  : CH 4 DIGITAL SIGNAL

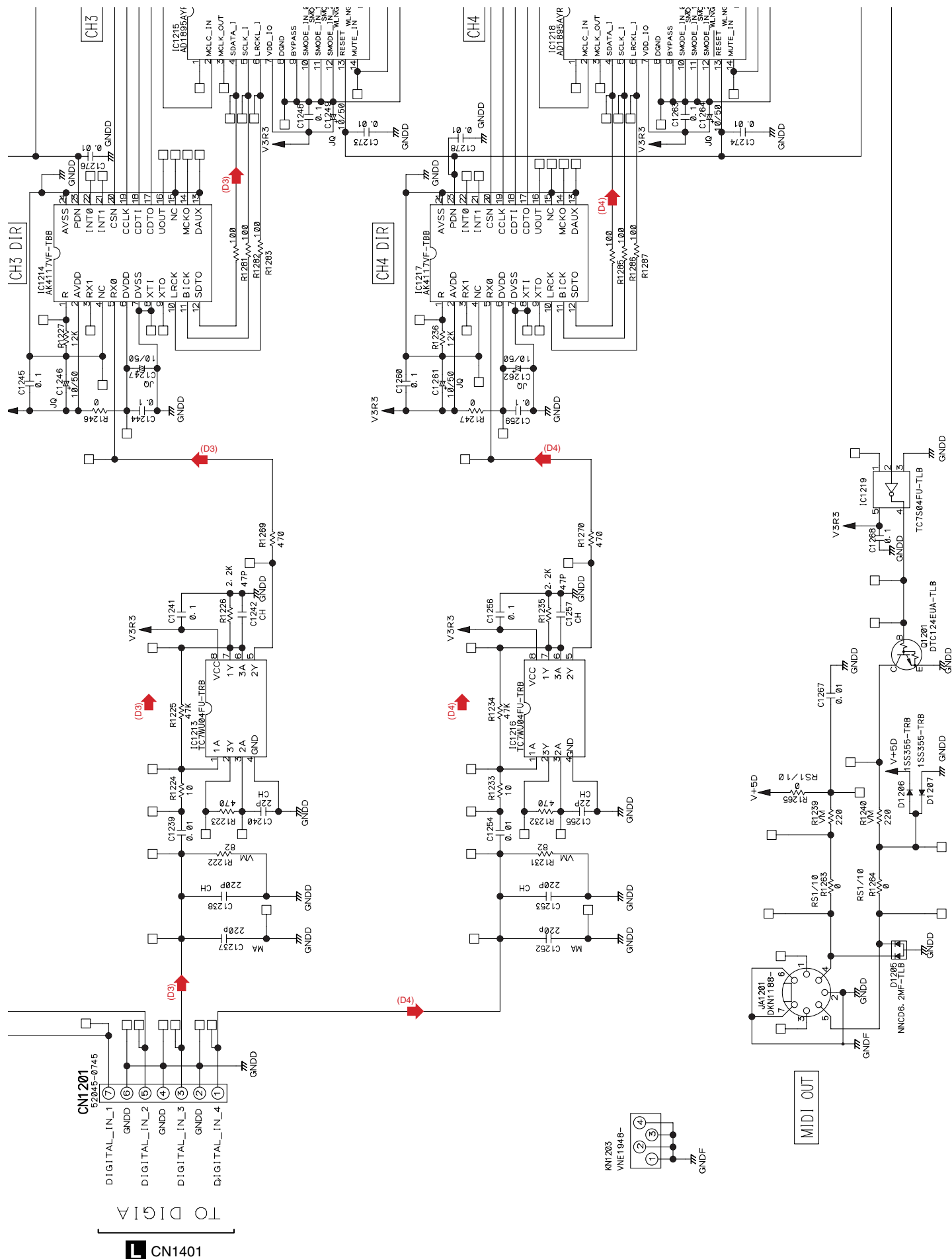
DJM-800

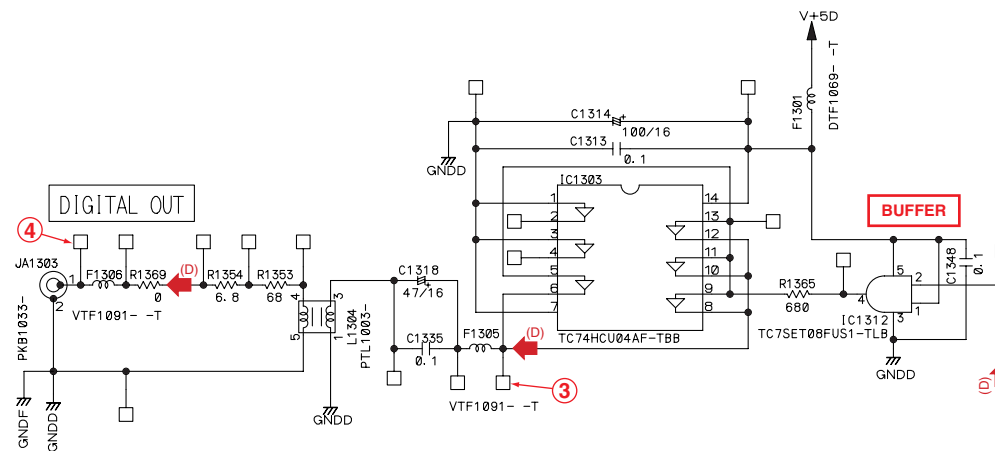
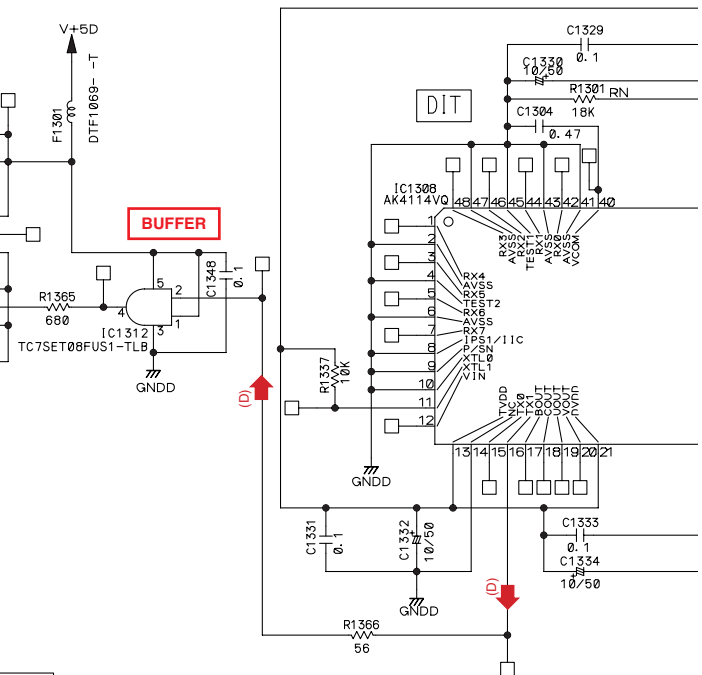
SRC

2/2

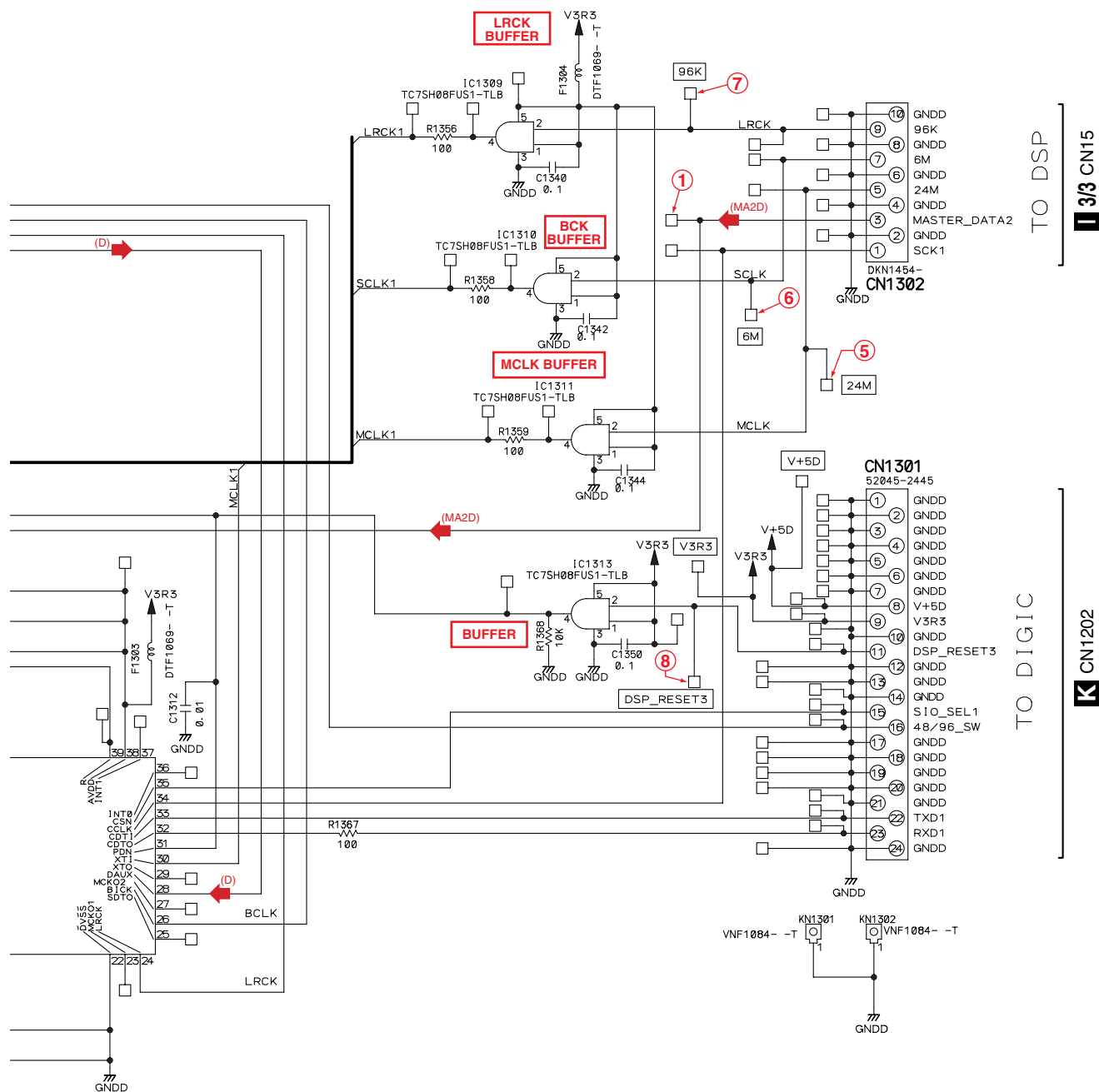


CN1201
52045-0745



M DIGIB ASSY (DWX2546)

 CEAT μF

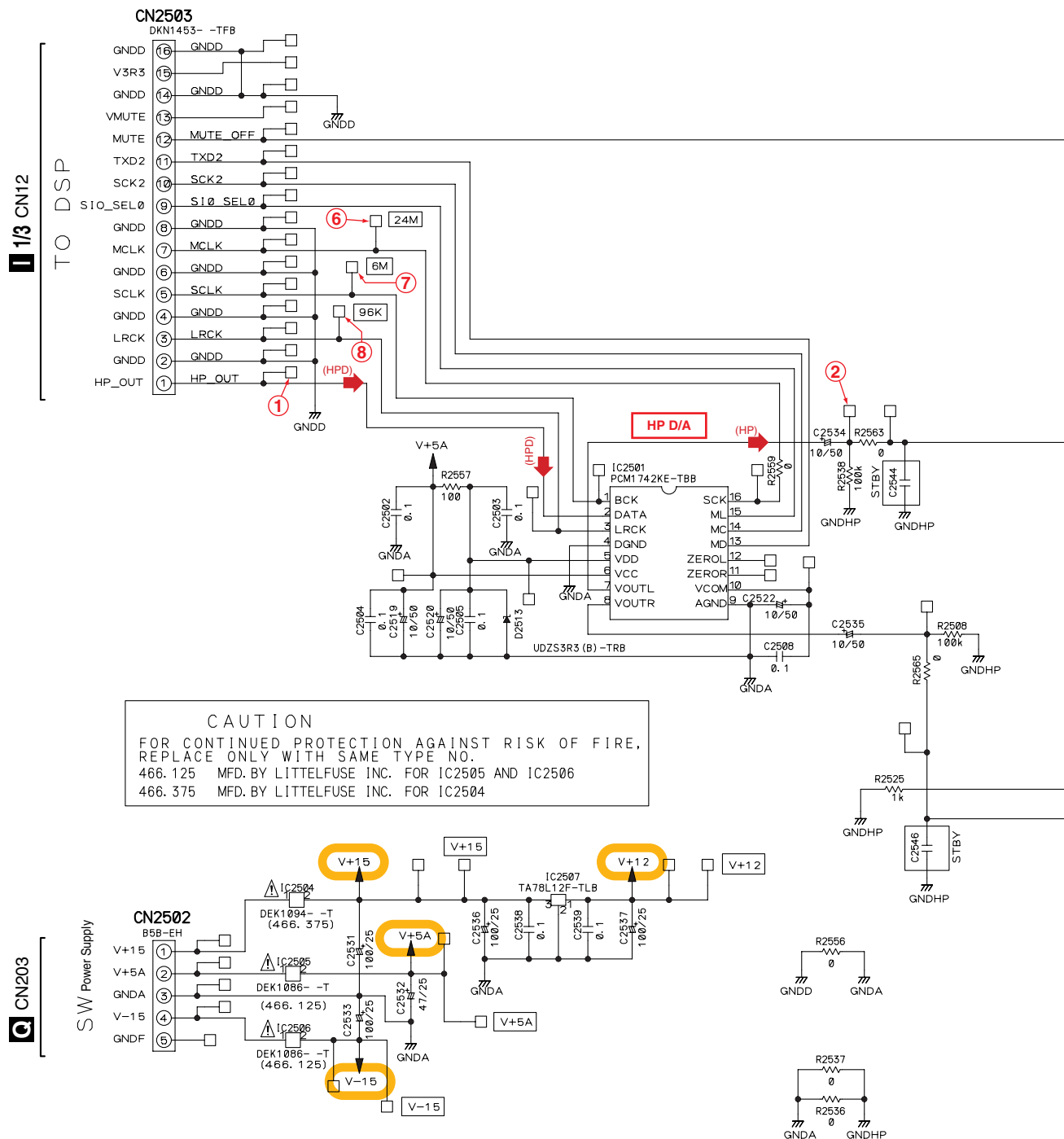


AUDIO SIGNAL ROUTE

(D) : DIGITAL CH SIGNAL
 (MA2D) : MASTER DIGITAL CH SIGNAL

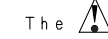
3.25 HPAMP ASSY

HPAMP ASSY (DWX2556)

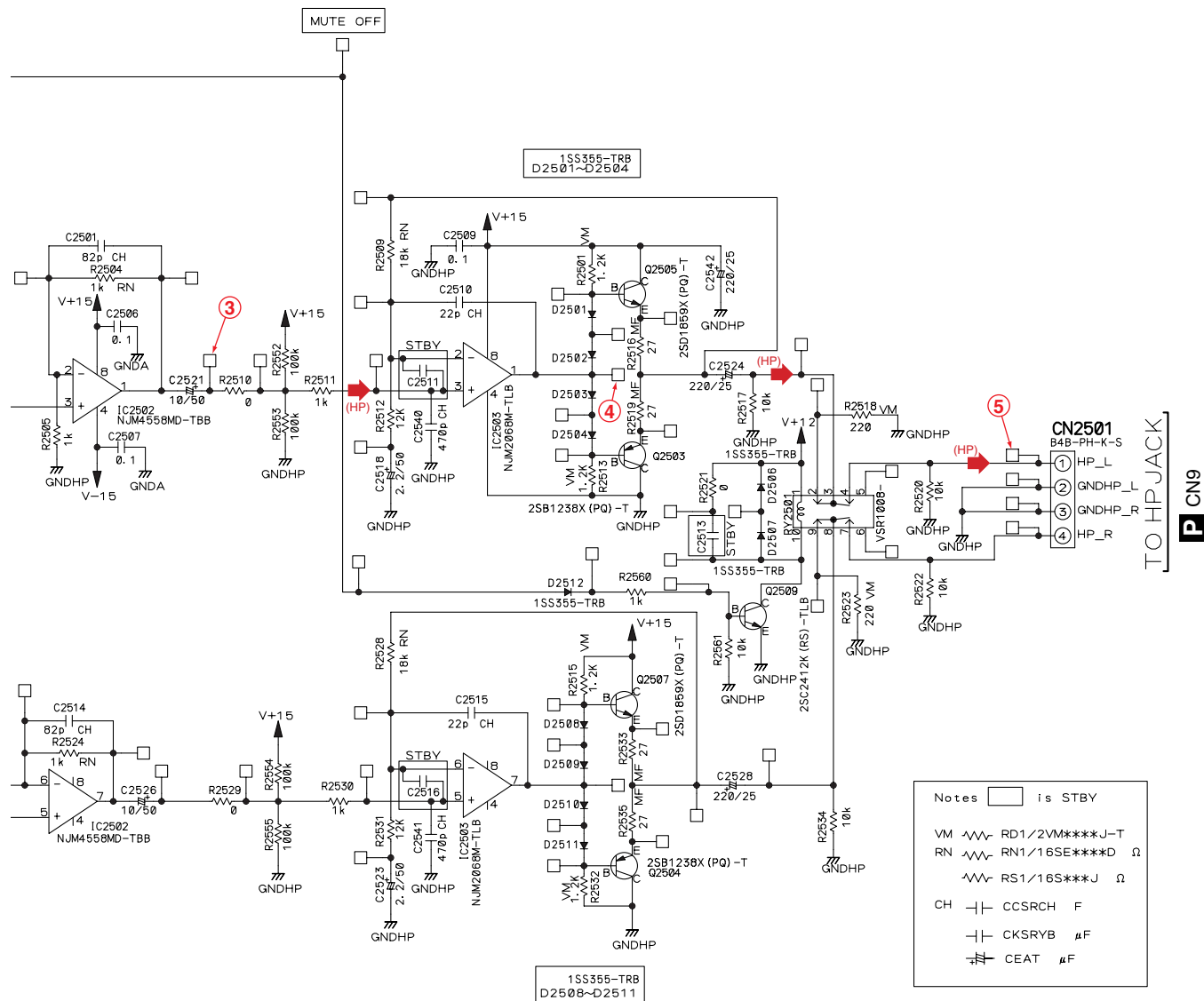




印の部品は、指定部品（安全規格適合部品）を必ず使用すること



The mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation



3.26 HPJACK ASSYS

A

P

HPJACK ASSY (DWX2553)

B

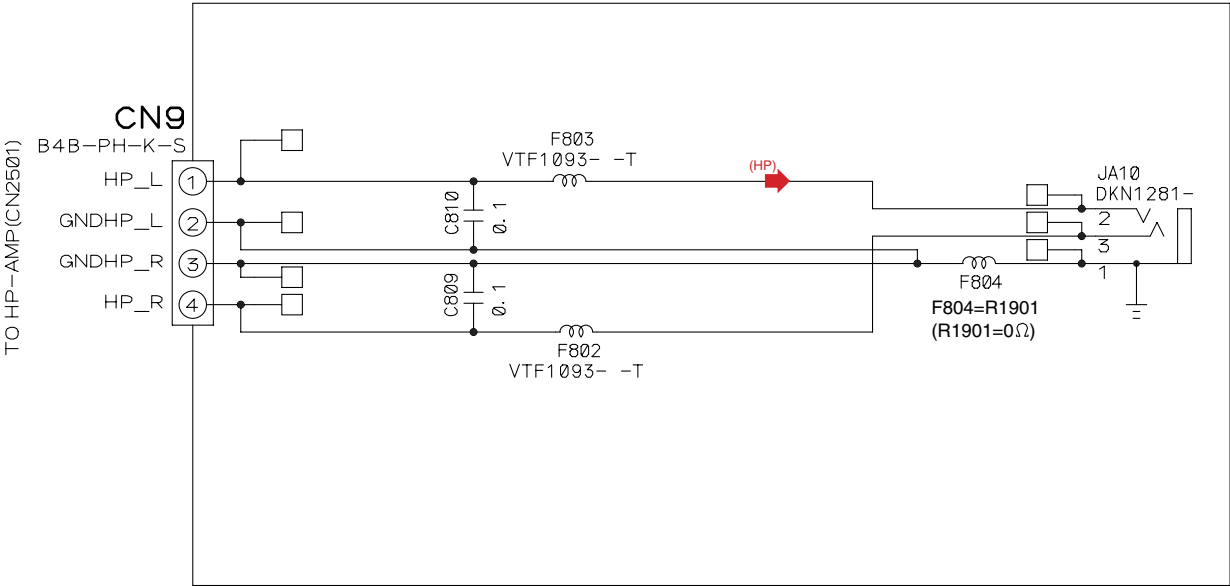
C

D

E

F

CN2501



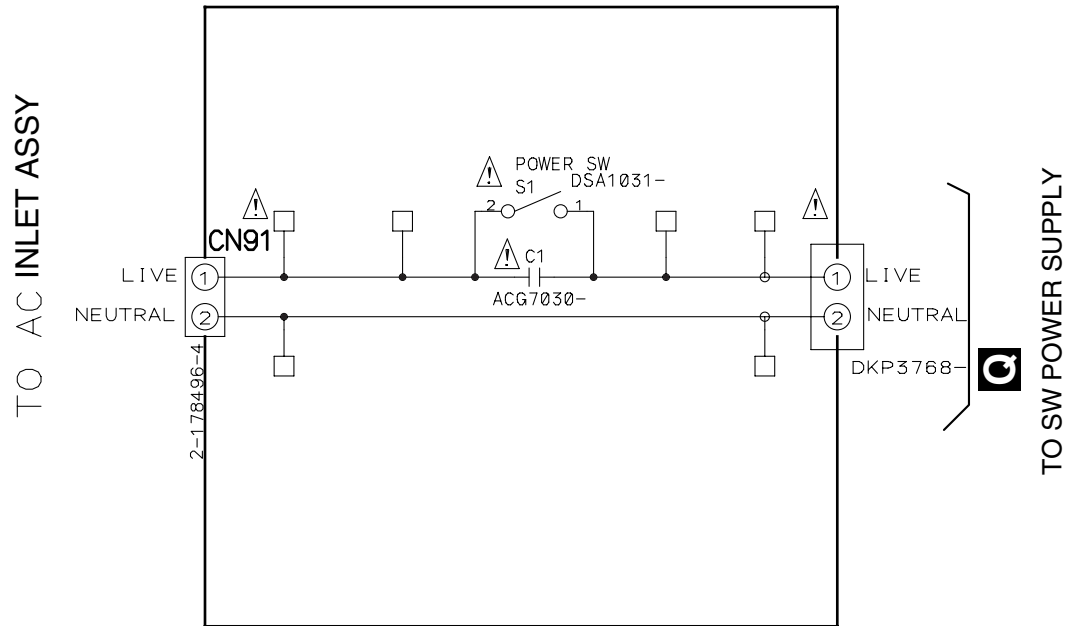
AUDIO SIGNAL ROUTE
(HP) ➡ : HP L CH SIGNAL

Notes is STBY

 RS1/16S***J Ω

 CKSRYB μF

R ACSW (DWX2545)



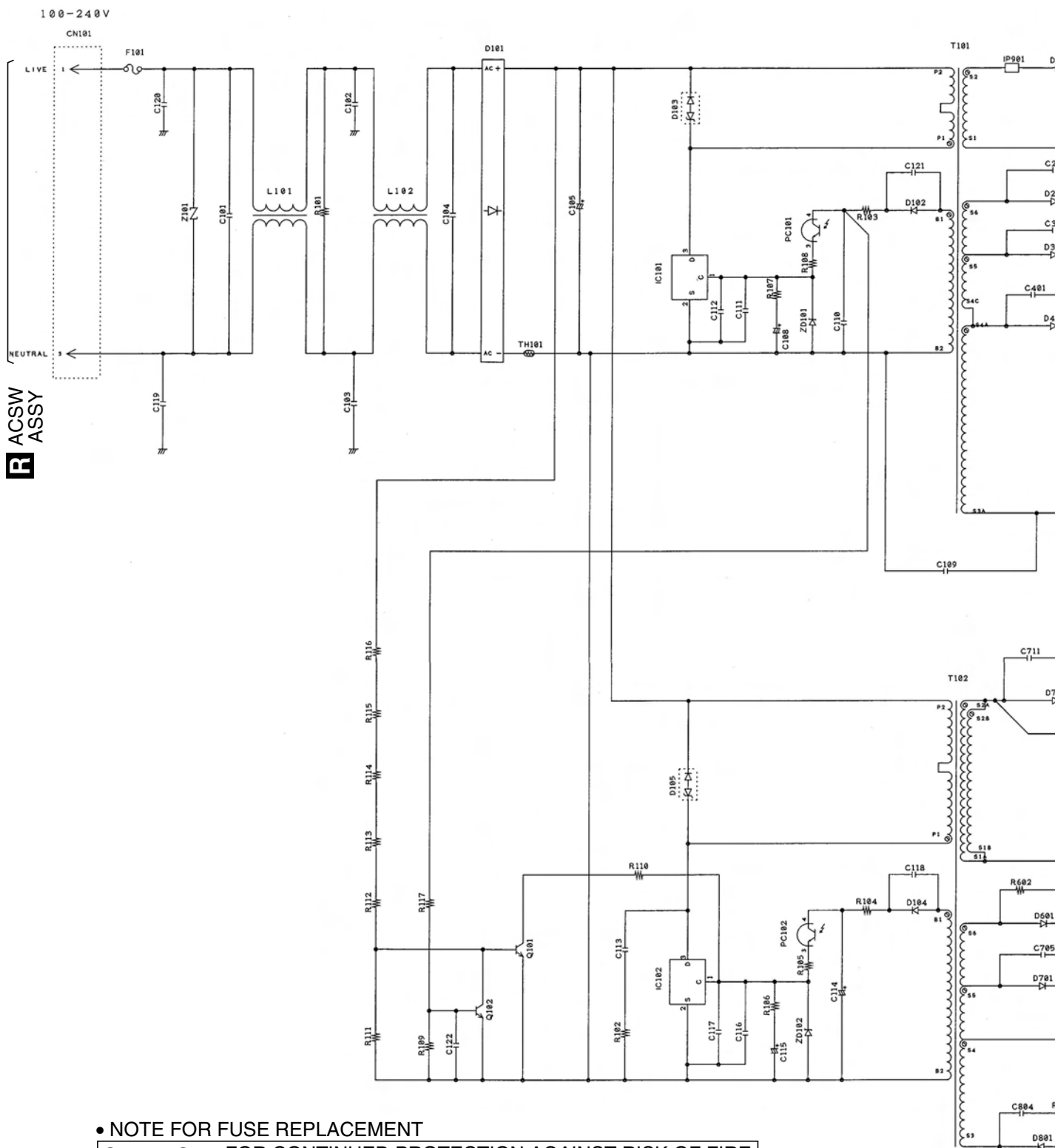
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation

3.28 SW POWER SUPPLY UNIT

Q SW POWER SUPPLY UNIT (DWR1433)

《 NOTE OF SPARE PARTS IN POWER SUPPLY (SYPS) UNIT 》

- In case of repairing, use the described parts only to prevent an accident.
- Please write the red ✓ mark on the board when the primary section of POWER SUPPLY (SYPS) Unit is repaired.
- Please take care to keep the space, not touching other parts when replacing the parts.



• NOTE FOR FUSE REPLACEMENT

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



3.29 VOLTAGES

Measurement Condition

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

Voltages

A 1/6 INPUT ASSY

IC409 (CS5361-KS-TLB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.186	13	3.192
2	0	14	0
3	1.557	15	0.725
4	1.539	16	2.502
5	1.71	17	2.408
6	4.851	18	0
7	0	19	4.962
8	3.223	20	2.493
9	1.036–1.134	21	2.507
10	3.178	22	2.48
11	0	23	0
12	0	24	4.192

A 2/6 INPUT ASSY

IC509 (CS5361-KS-TLB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.188	13	3.188
2	0	14	0
3	1.559	15	0.783
4	1.541	16	2.511
5	1.709	17	2.497
6	4.848	18	0
7	0	19	4.964
8	3.224	20	2.498
9	1.032–1.166	21	2.512
10	3.221	22	2.476
11	0	23	0
12	0	24	4.724

A 3/6 INPUT ASSY

IC609 (CS5361-KS-TLB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.189	13	3.221
2	0	14	0
3	1.609	15	0.668
4	1.541	16	2.514
5	1.541	17	2.5
6	4.852	18	0
7	0	19	4.964
8	3.225	20	2.505
9	1.011–1.196	21	2.522
10	3.221	22	2.48
11	0	23	0
12	0	24	4.931

A 4/6 INPUT ASSY

IC709 (CS5361-KS-TLB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.187	13	3.215
2	0	14	0
3	1.608	15	0.616
4	1.541	16	2.515
5	1.715	17	2.499
6	4.859	18	0
7	0	19	4.967
8	3.223	20	2.499
9	1.065–1.193	21	2.514
10	3.22	22	2.48
11	0	23	0
12	0	24	4.933

A 5/6 INPUT ASSY

IC803 (PCM1742KE-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.596	9	0
2	1.611	10	2.412
3	1.56	11	—
4	0	12	—
5	3.223	13	0.015
6	4.972	14	3.19
7	2.505	15	0.002
8	2.468	16	1.733

A 6/6 INPUT ASSY

IC805 (TA78L12F-TLB)

Pin No	Voltage (V)
1	11.896
2	0
3	15

B MIC1 ASSY

IC1501 (AK5381VT-TBB)

Pin No	Voltage (V)
1	2.530
2	2.534
3	0.000
4	2.499
5	0.000
6	5.008
7	0.230
8	0.000
9	0.295
10	0.274
11	0.264
12	0.270
13	0.072
14	0.000
15	0.000
16	0.000

C PANEL1 ASSY

IC1706 (TC74HC238AF-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.624	9	—
2	1.086	10	0.533
3	1.086	11	0.533
4	0	12	0.534
5	0	13	0.534
6	3.243	14	0.534
7	0	15	0.533
8	0	16	3.242

C PANEL1 ASSY

IC1707 (TC74HC238AF-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.624	9	—
2	1.085	10	0.533
3	1.086	11	0.533
4	0	12	0.533
5	0	13	0.533
6	3.242	14	0.533
7	—	15	0.532
8	0	16	3.242

C PANEL1 ASSY

IC1708 (TC74HC238AF-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.622	9	0.402
2	1.622	10	0.403
3	1.622	11	0.403
4	0	12	0.403
5	0	13	0.403
6	3.24	14	0.403
7	0.406	15	0.405
8	0	16	3.24

C PANEL1 ASSY

IC1711 (TC74HC273AF-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.204	11	3.242
2	0	12	0.442
3	0.175	13	0.158
4	0.156	14	0.159
5	0	15	0.886
6	0	16	0.442
7	0.17	17	0.158
8	0.16	18	0.165
9	0	19	0.886
10	0	20	3.24

C PANEL1 ASSY

IC1712 (TC74HC273AF-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.204	11	3.241
2	0	12	0
3	0.167	13	0.151
4	0.155	14	0.159
5	0	15	0
6	0	16	0
7	0.17	17	0.157
8	0.159	18	0.164
9	0	19	0
10	0	20	3.24

C PANEL1 ASSY

IC1713 (TC74HC273AF-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.203	11	3.241
2	0	12	0
3	0.166	13	0.157
4	0.155	14	0.152
5	0	15	0
6	0	16	0
7	0.168	17	0.157
8	0.158	18	0
9	0	19	3.239
10	0	20	3.239

F PANEL2 ASSY

IC2102 (NJM2903M-TLB)

Pin No	Voltage (V)
1	3.24
2	0.005
3	3.238
4	0
5	0
6	—
7	—
8	3.242

A

1 1/3 DSP ASSY**IC1 (PEG236A)**

Pin No	Voltage (V)	Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.188	61	0.026	121	3.170
2	0.000	62	0.000	122	3.167
3	0.036	63	0.443	123	3.168
4	3.203	64	0.357	124	1.842
5	—	65	0.562	125	3.060
6	1.003–1.478	66	0.555	126	3.056
7	1.568–1.913	67	0.551	127	3.064
8	2.698	68	0.358	128	0.021
9	1.377	69	0.689	129	0.000
10	0.000	70	0.000	130	3.067
11	1.202	71	0.567	131	3.050
12	0.422	72	3.171	132	3.043
13	1.025	73	0.551	133	0.035
14	0.029	74	0.680	134	—
15	2.817	75	0.293	135	3.057
16	2.679	76	0.284	136	3.049
17	0.581	77	0.282	137	3.083
18	0.000	78	0.278	138	2.863
19	0.024	79	0.280	139	0.030
20	3.162	80	0.278	140	—
21	0.024	81	2.234	141	0.083
22	0.024	82	1.822	142	1.109
23	2.545	83	1.822	143	0.139
24	3.187	84	—	144	0.139
25	0.000	85	0.007		
26	3.175	86	3.129		
27	3.183	87	3.143		
28	3.183	88	3.143		
29	0.024	89	3.156		
30	3.183	90	—		
31	3.183	91	2.977		
32	0.099	92	3.146		
33	3.173	93	0.519		
34	0.026	94	0.514		
35	3.175	95	0.000		
36	0.026	96	—		
37	2.246	97	1.599		
38	2.246	98	3.161		
39	3.176	99	3.162		
40	0.000	100	—		
41	3.182	101	—		
42	0.970	102	0.000		
43	0.114	103	3.192 *		
44	0.109	104	2.257		
45	1.381	105	2.256		
46	0.978	106	0.024		
47	1.376	107	3.159		
48	0.116	108	3.181		
49	0.114	109	3.180		
50	0.000	110	3.180		
51	2.250	111	3.182		
52	2.247	112	3.183		
53	2.247	113	1.390		
54	—	114	1.576		
55	0.026	115	1.596		
56	0.024	116	1.603		
57	0.549	117	1.581		
58	0.705	118	2.501		
59	0.026	119	3.146		
60	0.026	120	2.988		

* Hang-up assumes
that I touch it.

B

C

D

E

F

2/3 DSP ASSY**IC22 (D610A003BPYP225-K)**

Pin No	Voltage (V)	Pin No	Voltage (V)	Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.234–3.695	61	3.214	121	3.264	181	1.048
2	—	62	0.013	122	3.264	182	0.000
3	1.140	63	2.948	123	3.267	183	3.241
4	0.000	64	3.080	124	1.187	184	0.010
5	3.238	65	3.239	125	0.000	185	3.239
6	—	66	0.000	126	3.266	186	3.239
7	—	67	1.038	127	3.267	187	3.238
8	0.000	68	0.378	128	3.267	188	3.241
9	3.270	69	3.073	129	3.267	189	0.000
10	0.000	70	3.082	130	3.267	190	1.054
11	1.160	71	3.080	131	3.267	191	3.238
12	1.590	72	3.239	132	3.267	192	3.238
13	0.001	73	0.000	133	1.187	193	3.238
14	1.040	74	3.062	134	0.000	194	0.000
15	0.000	75	0.010	135	—	195	1.187
16	1.488	76	1.642	136	—	196	1.187
17	0.001	77	0.940	137	—	197	0.000
18	0.001	78	—	138	3.233	198	—
19	1.488	79	3.209	139	1.520	199	0.000
20	3.265	80	1.037	140	1.488	200	—
21	1.538	81	0.000	141	3.237	201	1.186
22	1.187	82	—	142	0.000	202	3.241
23	0.000	83	3.219	143	1.026	203	0.000
24	1.538	84	3.239	144	1.032	204	2.337
25	3.270	85	0.000	145	1.065	205	3.261
26	0.000	86	0.006	146	1.062	206	3.264
27	3.266	87	3.240	147	1.013	207	0.000
28	1.603	88	0.000	148	0.000	208	1.185
29	1.187	89	1.038	149	1.049		
30	0.000	90	0.569–3.225	150	1.281		
31	0.001	91	0.011	151	—		
32	—	92	0.011	152	—		
33	0.000	93	0.011	153	1.489		
34	0.000	94	0.354–3.014	154	0.000		
35	1.187	95	0.004	155	1.522		
36	—	96	1.187	156	3.240		
37	0.000	97	0.000	157	1.049		
38	—	98	3.266	158	0.000		
39	0.001	99	0.002	159	1.587		
40	1.042	100	0.002	160	3.240		
41	0.000	101	—	161	1.587		
42	0.000	102	2.686	162	3.240		
43	1.041	103	3.266	163	0.000		
44	3.238	104	1.187	164	—		
45	0.000	105	1.187	165	—		
46	1.040	106	0.000	166	—		
47	3.238	107	3.266	167	—		
48	0.000	108	3.266	168	—		
49	0.000	109	—	169	1.490		
50	1.040	110	3.266	170	0.000		
51	1.039	111	3.266	171	1.049		
52	0.000	112	3.266	172	—		
53	1.039	113	3.266	173	0.000		
54	0.000	114	3.266	174	—		
55	3.239	115	0.000	175	0.000		
56	—	116	1.187	176	3.202		
57	—	117	3.266	177	1.049		
58	3.239	118	3.266	178	0.000		
59	0.000	119	3.263	179	—		
60	1.038	120	3.264	180	0.000		

I 2/3 DSP ASSY

IC11 (K4S641632H-TC75-K)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	3.253	28	0.000
2	3.113	29	3.180
3	3.253	30	3.167
4	3.100	31	3.168
5	3.109	32	3.143
6	0.000	33	0.129
7	3.105	34	0.125
8	3.098	35	0.165
9	3.253	36	—
10	3.092	37	3.237
11	3.089	38	1.669
12	0.000	39	3.174
13	3.092	40	—
14	3.252	41	0.000
15	3.175	42	3.077
16	3.230	43	3.253
17	3.206	44	3.108
18	3.224	45	3.138
19	3.219	46	0.000
20	1.012–3.024	47	3.034
21	1.010–3.084	48	3.142
22	0.139	49	3.253
23	0.119	50	3.151
24	3.058	51	3.029
25	3.139	52	0.000
26	3.245	53	3.064
27	3.253	54	0.000

I 2/3 DSP ASSY

IC12 (MBM29LV400TC-70PFTN)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	0.146	25	0.128
2	0.158	26	3.238
3	1.013–3.112	27	0.000
4	0.984–3.103	28	3.225
5	0.164	29	3.103
6	0.138	30	3.076
7	0.131	31	3.090
8	0.111	32	3.107
9	—	33	3.103
10	—	34	3.141
11	3.229	35	3.102
12	0.557	36	3.035
13	—	37	3.251
14	—	38	3.085
15	—	39	3.145
16	—	40	3.087
17	0.185	41	3.151
18	0.517	42	3.079
19	3.169	43	0.266
20	3.169	44	0.264
21	3.182	45	3.059
22	3.246	46	0.000
23	3.139	47	3.253
24	3.063	48	0.025

I 3/3 DSP ASSY

IC13 (XC3S50-4TQG144C-K)

Pin No	Voltage (V)	Pin No	Voltage (V)	Pin No	Voltage (V)
1	2.994	61	1.215	121	0.604
2	0.126	62	2.514	122	0.661
3	3.183	63	0.706	123	0.610
4	—	64	0.021	124	0.614
5	—	65	0.084	125	0.604
6	—	66	3.179	126	0.595
7	—	67	0.000	127	1.216
8	1.579	68	0.361	128	1.240
9	0.020	69	0.585	129	1.251
10	0.052	70	0.713	130	1.233
11	3.176	71	2.541	131	1.706
12	1.577	72	2.521	132	1.745
13	0.053	73	0.381	133	1.676
14	3.175	74	0.562	134	1.701
15	—	75	3.181	135	1.771
16	0.000	76	0.583	136	0.000
17	—	77	0.587	137	1.801
18	—	78	0.557	138	1.712
19	3.182	79	0.467	139	0.000
20	—	80	—	140	1.851
21	3.176	81	0.000	141	1.784
22	0.000	82	—	142	1.720
23	—	83	—	143	1.725
24	—	84	0.359	144	—
25	—	85	0.021		
26	—	86	0.021		
27	1.047	87	0.021		
28	2.665	88	0.000		
29	0.020	89	0.021		
30	—	90	0.022		
31	2.803	91	3.181		
32	0.025	92	0.021		
33	1.029	93	0.021		
34	3.182	94	0.000		
35	0.435	95	—		
36	1.196	96	—		
37	2.524	97	3.028		
38	2.525	98	3.018		
39	2.525	99	3.030		
40	1.412	100	3.019		
41	2.646	101	0.000		
42	0.000	102	3.016		
43	3.181	103	3.028		
44	1.595–1.927	104	3.003		
45	0.000	105	3.021		
46	1.048–1.458	106	3.182		
47	3.153	107	3.018		
48	2.514	108	3.070		
49	1.215	109	—		
50	3.174	110	—		
51	3.161	111	—		
52	0.329	112	3.040		
53	0.334	113	3.082		
54	3.182	114	0.000		
55	0.332	115	0.604		
56	0.334	116	0.856		
57	—	117	0.000		
58	—	118	0.880		
59	0.335	119	0.793		
60	0.336	120	0.605		

I 3/3 DSP ASSY

IC14 (R1224N102H-TLB)

Pin No	Voltage (V)
1	2.783
2	0.020
3	1.020
4	2.002
5	3.201

I 3/3 DSP ASSY

IC16 (NJM2374AM-TFB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	13.862	5	1.268
2	0.000	6	8.813
3	0.792	7	8.767
4	0.000	8	6.840

I 3/3 DSP ASSY

IC15 (S-1200B25-M5-TRB)

Pin No	Voltage (V)
1	3.237
2	0.000
3	3.236
4	—
5	2.510

J 1/3 OUTPUT ASSY

IC904 (AK4393VF-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	0.000	15	0.000
2	3.221	16	0.000
3	1.698	17	4.977
4	3.188	18	4.977
5	1.529	19	0.000
6	0.004	20	2.621
7	1.558	21	2.620
8	0.000	22	2.623
9	2.940	23	2.623
10	3.202	24	2.629
11	0.000	25	3.217
12	0.000	26	3.219
13	3.219	27	0.000
14	0.000	28	0.000

J 2/3 OUTPUT ASSY

IC910 (PCM1742KE-TBB)

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.529	9	0.000
2	0.003	10	2.481
3	1.560	11	—
4	0.000	12	—
5	3.223	13	0.016
6	4.976	14	3.192
7	2.505	15	0.002
8	2.462	16	1.705

A

J 3/3 OUTPUT ASSY**IC915 (PCM1742KE-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.530	9	0.000
2	0.002	10	2.470
3	1.559	11	0.000
4	0.000	12	2.470
5	3.224	13	0.016
6	4.975	14	3.192
7	2.509	15	0.002
8	2.467	16	1.701

B

J 3/3 OUTPUT ASSY**IC918 (AK5381VT-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	2.482	9	0.167
2	0.741	10	0.359
3	0.000	11	0.150
4	2.481	12	0.352
5	0.000	13	0.003
6	4.974	14	0.000
7	3.225	15	0.000
8	0.000	16	0.000

C

K DIGIC ASSY**IC1202 (AK4117VF-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.195	13	0.000
2	3.181	14	-
3	1.566	15	0.000
4	0.000	16	-
5	0.074	17	1.583
6	3.180	18	0.062
7	0.000	19	3.189
8	0.000	20	2.254
9	-	21	-
10	2.232	22	-
11	1.741	23	3.158
12	0.005	24	0.000

D

K DIGIC ASSY**IC1208 (AK4117VF-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.188	13	0.000
2	3.182	14	-
3	1.572	15	0.000
4	0.000	16	-
5	0.075	17	1.593
6	3.183	18	0.063
7	0.000	19	3.270
8	0.000	20	2.267
9	-	21	-
10	2.245	22	-
11	1.800	23	3.177
12	0.005	24	0.000

E

F

K DIGIC ASSY**IC1214 (AK4117VF-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.193	13	0.000
2	3.202	14	-
3	1.576	15	0.000
4	0.000	16	-
5	0.075	17	1.593
6	3.202	18	0.063
7	0.000	19	3.206
8	0.000	20	2.266
9	-	21	-
10	2.248	22	-
11	1.805	23	3.176
12	0.004	24	0.000

K DIGIC ASSY**IC1217 (AK4117VF-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	1.186	13	0.000
2	3.191	14	-
3	1.568	15	0.000
4	0.000	16	-
5	0.075	17	1.593
6	3.199	18	0.063
7	0.000	19	3.206
8	0.000	20	2.266
9	-	21	-
10	2.246	22	-
11	1.759	23	3.176
12	0.004	24	0.000

K DIGIC ASSY**IC1203 (AD1895AYRS-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	-	15	0.004
2	1.599	16	0.000
3	-	17	0.000
4	0.004	18	0.000
5	1.739	19	0.000
6	2.245	20	0.000
7	3.197	21	0.000
8	0.000	22	3.196
9	0.000	23	1.890
10	0.000	24	2.248
11	0.000	25	1.624
12	0.000	26	0.000
13	3.176	27	0.000
14	0.004	28	0.000

K DIGIC ASSY**IC1209 (AD1895AYRS-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	-	15	0.004
2	1.602	16	0.000
3	-	17	0.000
4	0.004	18	0.000
5	1.800	19	0.000
6	2.246	20	0.000
7	3.200	21	0.000
8	0.000	22	3.199
9	0.000	23	1.893
10	0.000	24	2.249
11	0.000	25	1.631
12	0.000	26	0.000
13	3.177	27	0.000
14	0.004	28	0.000

K DIGIC ASSY**IC1215 (AD1895AYRS-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	-	15	0.004
2	1.586	16	0.000
3	-	17	0.000
4	0.004	18	0.000
5	1.805	19	0.000
6	2.247	20	0.000
7	3.203	21	0.000
8	0.000	22	3.202
9	0.000	23	1.894
10	0.000	24	2.248
11	0.000	25	1.629
12	0.000	26	0.000
13	3.175	27	0.000
14	0.005	28	0.000

K DIGIC ASSY**IC1218 (AD1895AYRS-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	-	15	0.004
2	1.592	16	0.000
3	-	17	0.000
4	0.004	18	0.000
5	1.756	19	0.000
6	2.235	20	0.000
7	3.184	21	0.000
8	0.000	22	3.183
9	0.000	23	1.886
10	0.000	24	2.239
11	0.000	25	1.624
12	0.000	26	0.000
13	3.161	27	0.000
14	0.004	28	0.000

M DIGIB ASSY**IC1308 (AK4114VQ)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	—	25	—
2	0.000	26	1.599
3	—	27	—
4	0.000	28	1.779
5	—	29	—
6	0.000	30	1.644
7	—	31	3.164
8	0.000	32	0.172
9	0.000	33	0.073
10	0.000	34	3.191
11	3.167	35	3.189
12	—	36	—
13	3.182	37	—
14	0.000	38	3.182
15	—	39	1.203
16	1.612	40	1.200
17	—	41	0.000
18	—	42	—
19	—	43	0.000
20	—	44	—
21	3.182	45	0.000
22	0.000	46	—
23	—	47	0.000
24	2.237	48	—

M DIGIB ASSY**IC1307 (AD1895AYRS-TBB)**

Pin No	Voltage (V)	Pin No	Voltage (V)
1	—	15	0.172
2	0.250	16	0.000
3	—	17	0.000
4	0.209	18	0.000
5	1.591	19	0.000
6	2.243	20	0.000
7	3.178	21	0.000
8	0.000	22	0.004
9	0.000	23	0.192
10	0.000	24	0.161
11	0.000	25	0.160
12	0.000	26	0.004
13	0.004	27	0.005
14	0.004	28	0.004

O HPAMP ASSY**IC2501 (PCM1742KE-TBB)**

Pin No	Voltage (V)
1	1.556
2	0.002
3	1.563
4	0
5	3.2
6	4.928
7	2.481
8	2.441
9	0
10	2.456
11	-
12	-
13	0.015
14	3.191
15	0.001
16	1.602

3.30 WAVEFORMS

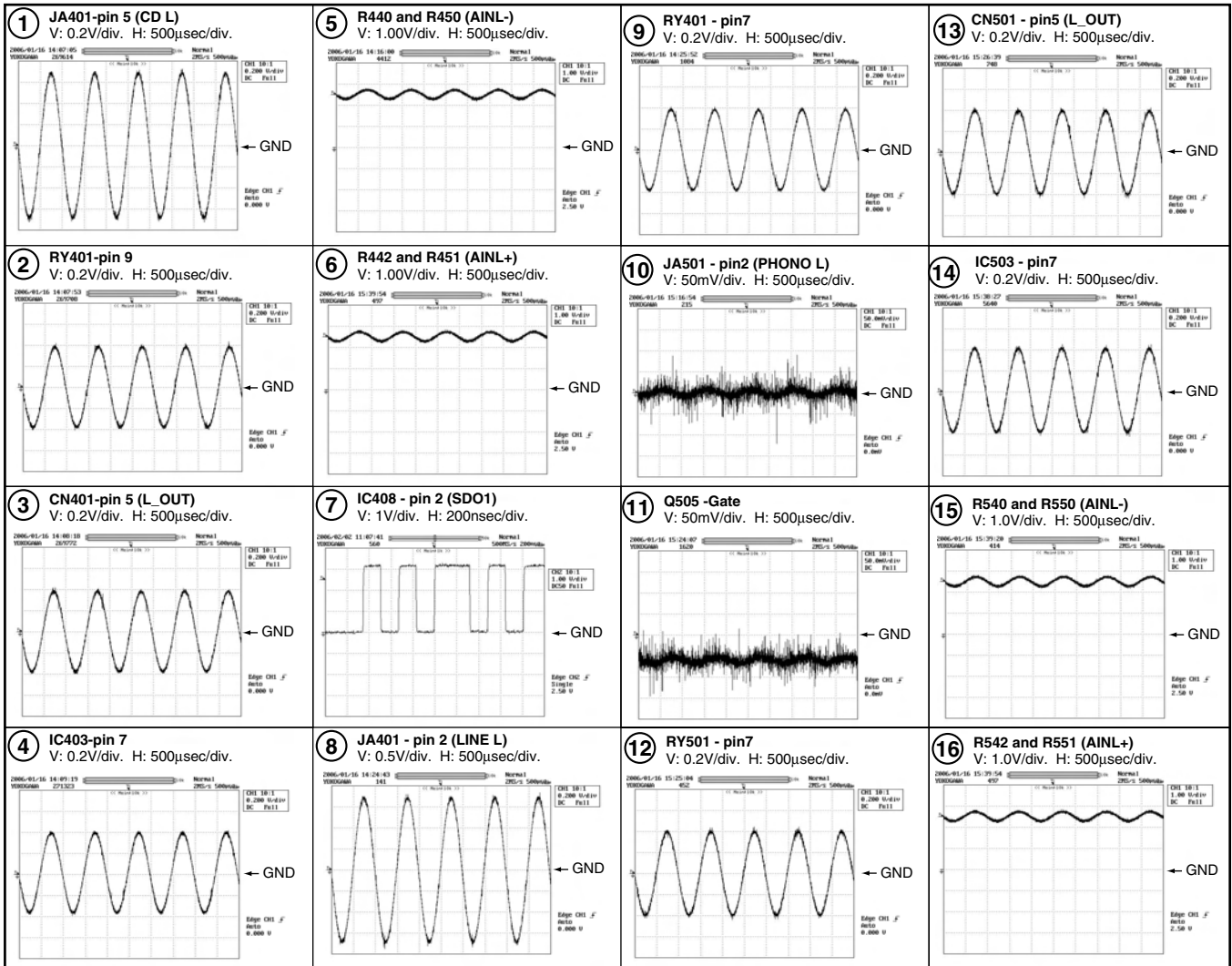
Measuring Conditions (Analog)

Measure CH	IN CH	IN LEVEL(TRIM MAX)	IN FREQ	RL	
PHONO	CH1	-46dBv	1KHz		
LINE	CH1	-6dBv	1KHz		
CD	CH1	-6dBv	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	
MIC 1,2	MIC 1,2	-44.8dBv	1KHz		
HP	CH1	-6dBv	1KHz	32ohm	HP LEVEL 4

Set as follows except for designation;
 CH1 FADER: MAX
 C.F ASSIGN: Nothing
 CH FADER CURVE: Center.

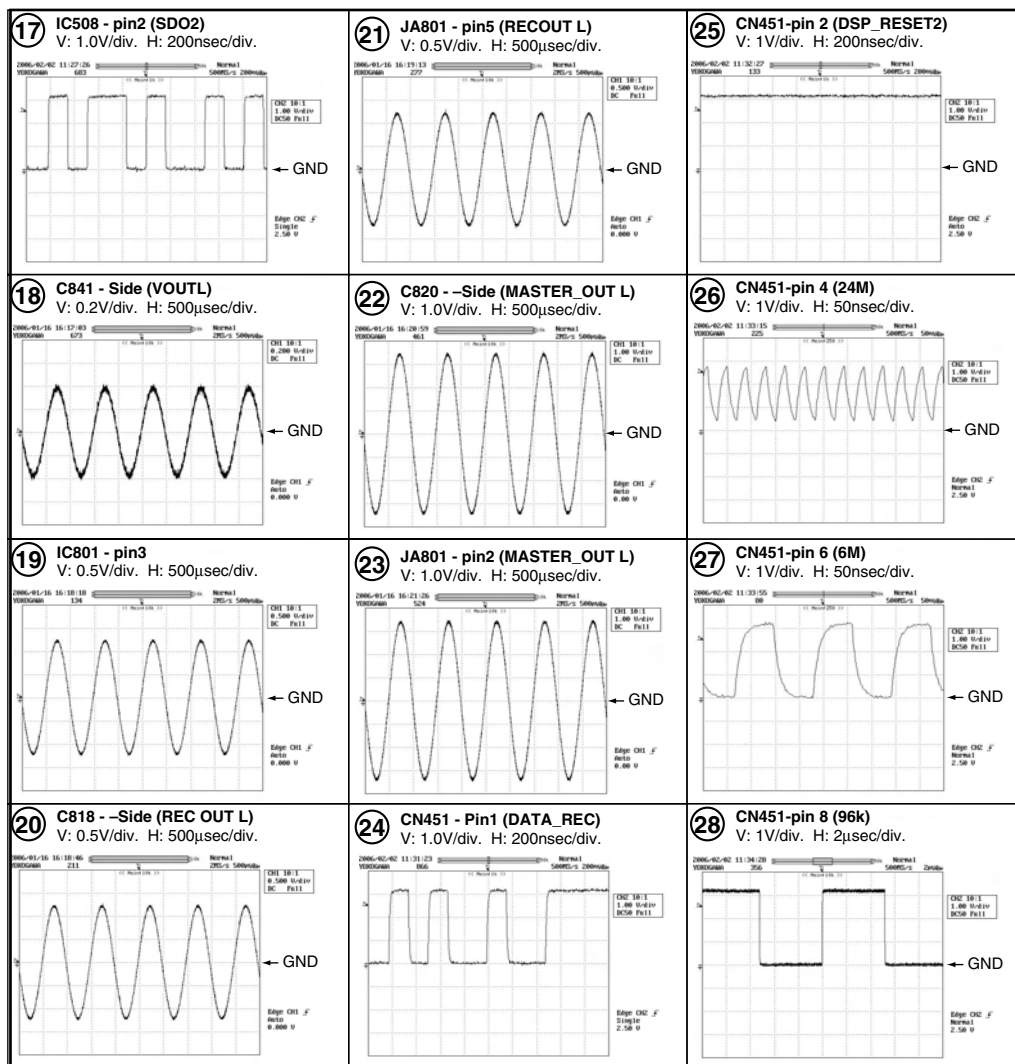
A INPUT ASSY

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



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

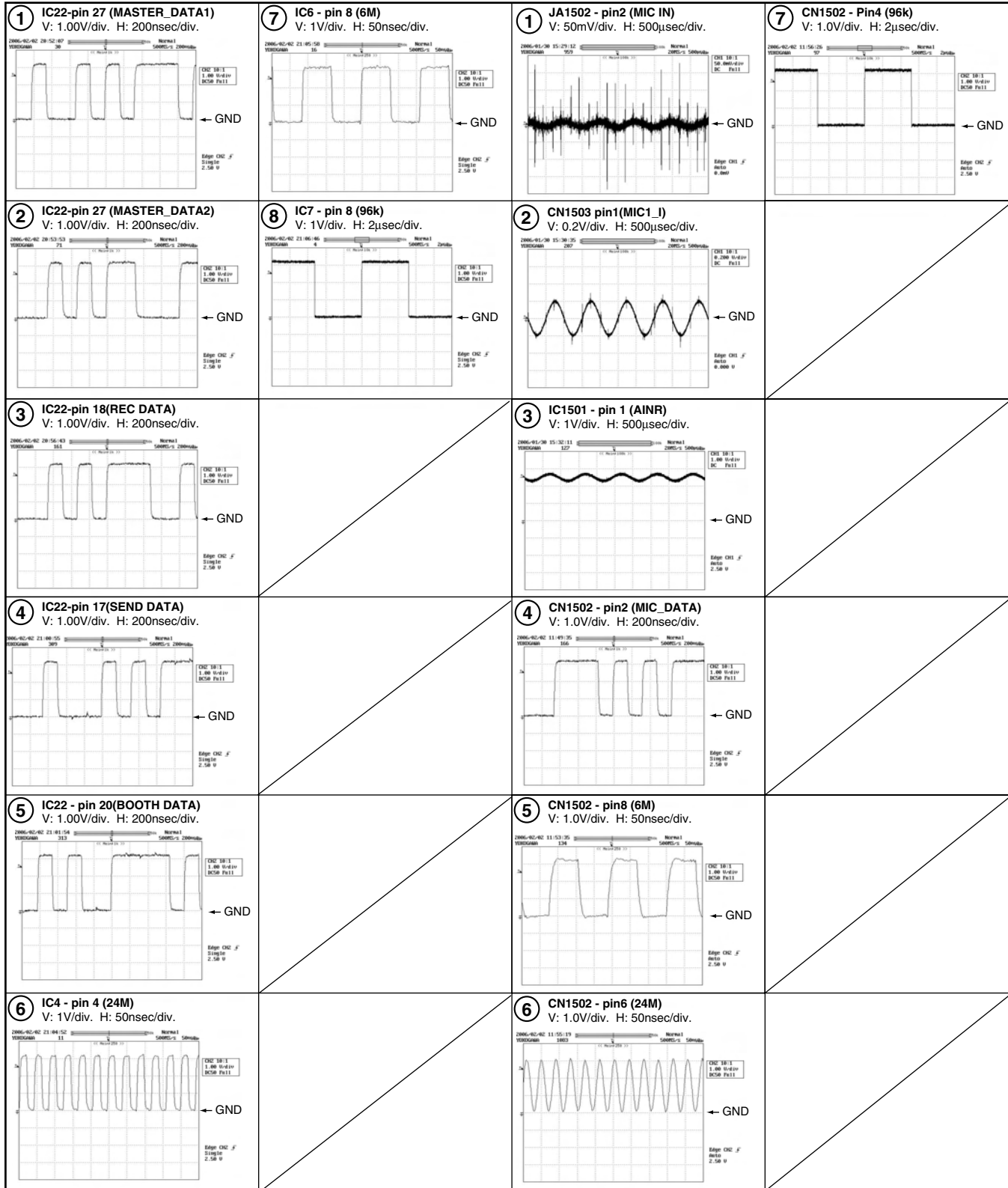
A INPUT ASSY



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

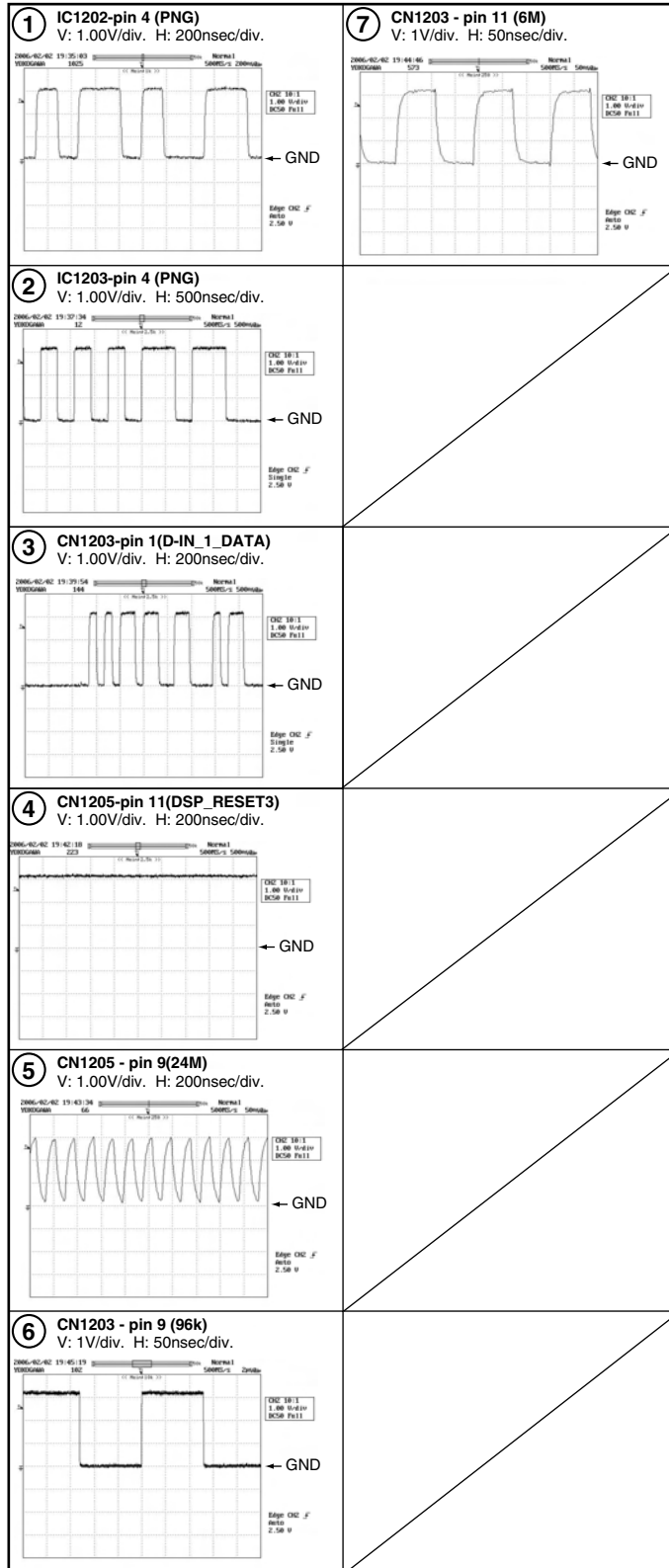
DSP ASSY

MIC 1 ASSY



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

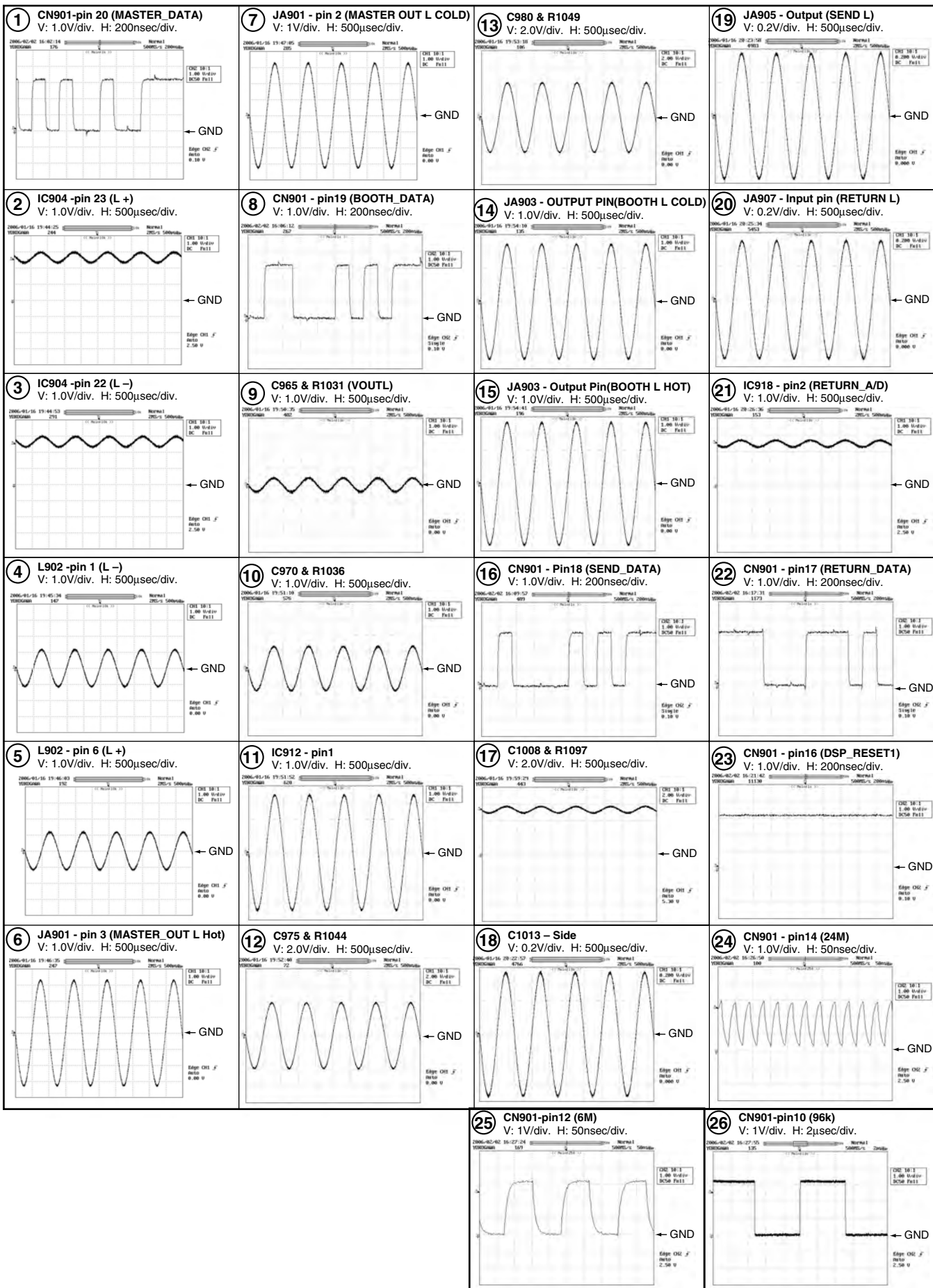
N DIGIC ASSY



M OUTPUT ASSY

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

A

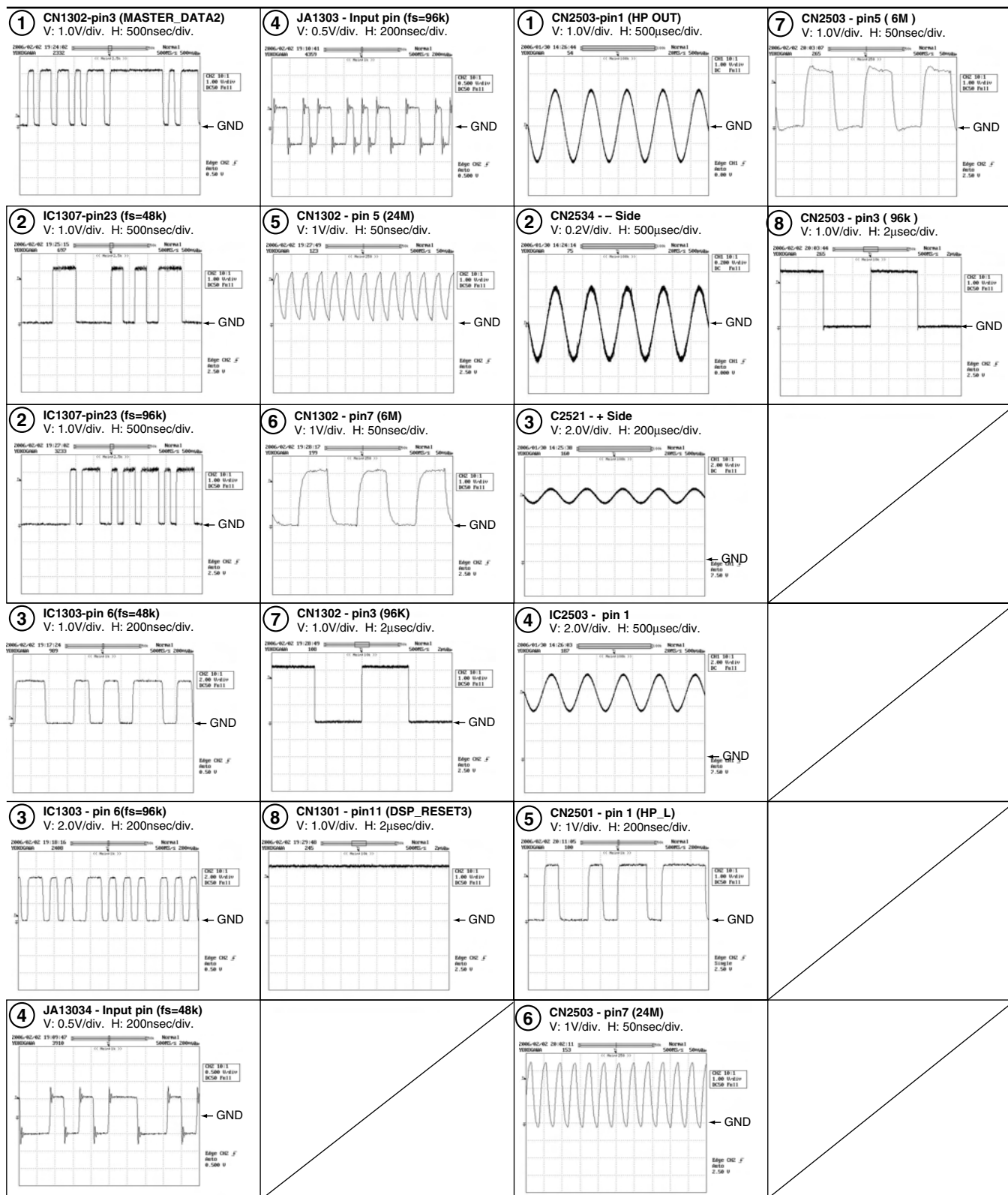


F

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

P DIGIB ASSY

S HP JACK ASSY



4. PCB CONNECTION DIAGRAM

4.1 INPUT ASSY

SIDE A

A INPUT ASSY

J CN902

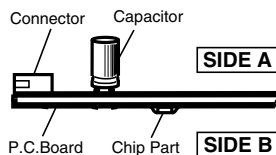
I CN2

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.



D 1/4 CN791

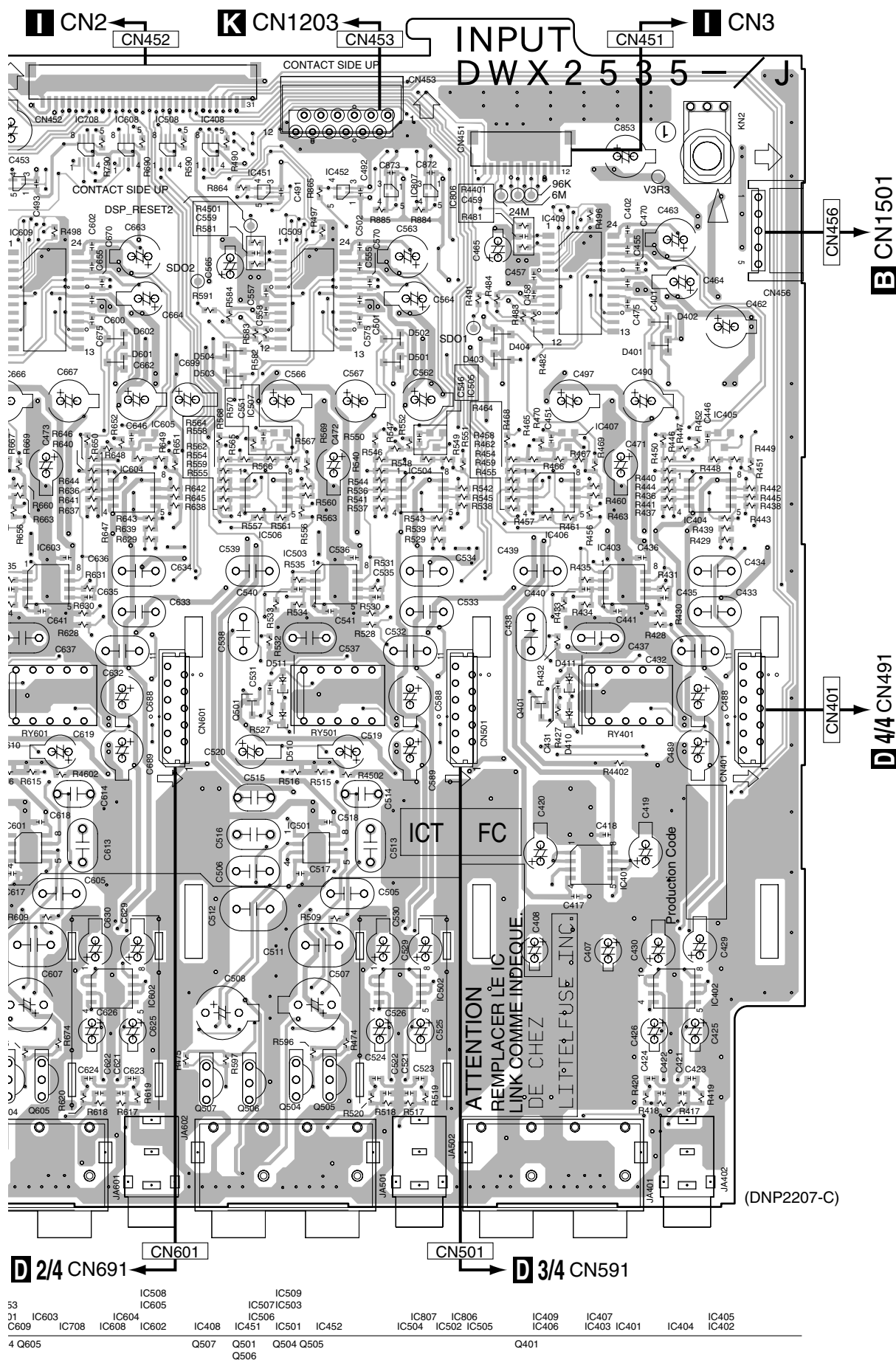
CN701

CAUTION
REPLACE IC LINK
AS MARKED MFD. BY
LITTELFUSE INC.

D 2/4 CN691

IC805	IC803	IC804	IC810	IC707	IC703	IC456	IC454	IC453	IC601	IC603	IC608
Q803	Q805	Q804	Q806	Q701	Q704	Q705	Q607	Q601	Q604	Q605	
Q807	Q801	Q808	Q802	Q707	Q706			Q606	Q604	Q605	

DJM-800



SIDE A

A

B

C

D

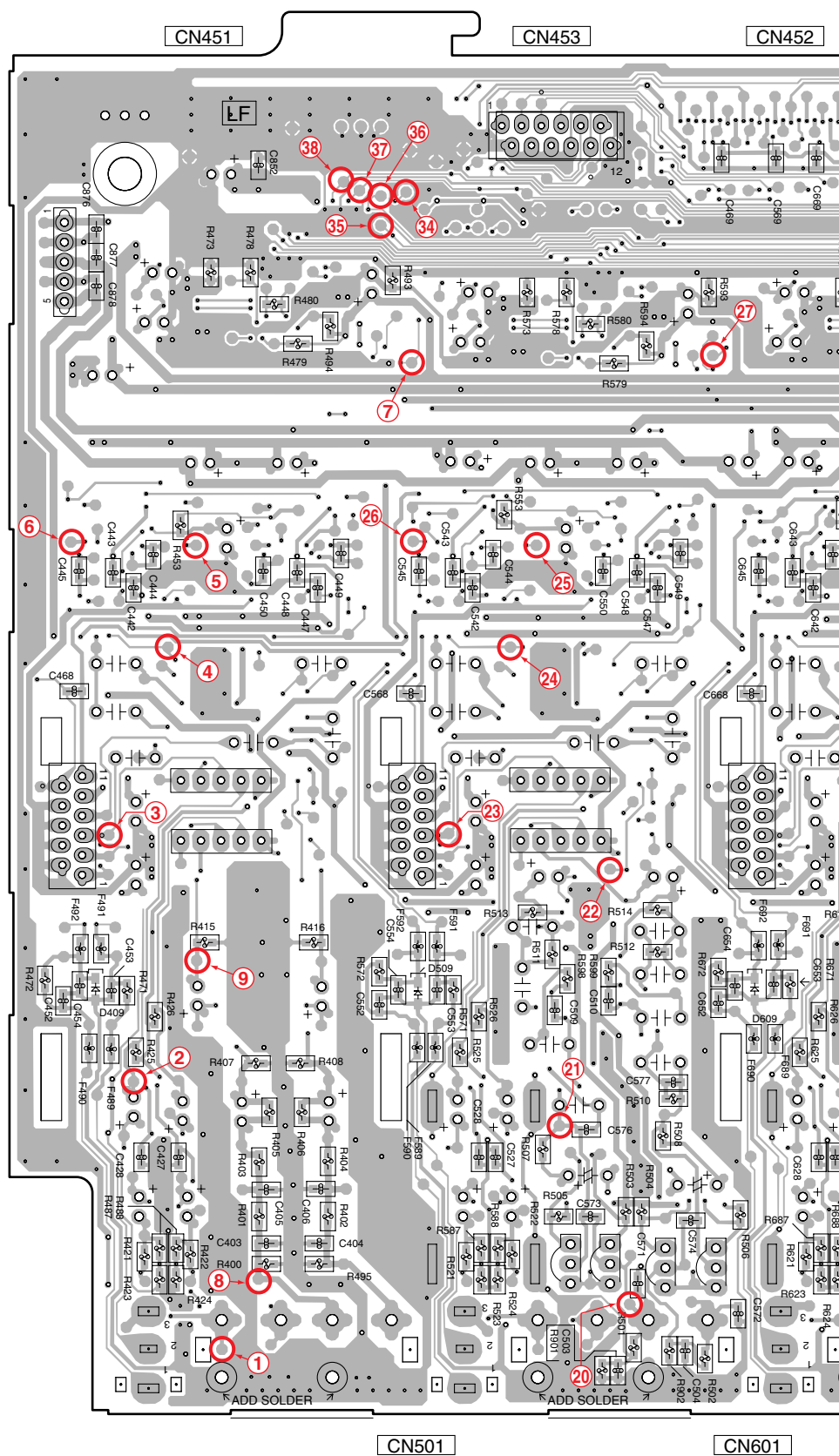
E

F

A

SIDE B

A INPUT ASSY



Q1504 Q1502
Q1503
Q1501

DJM-800

SIDE B

A

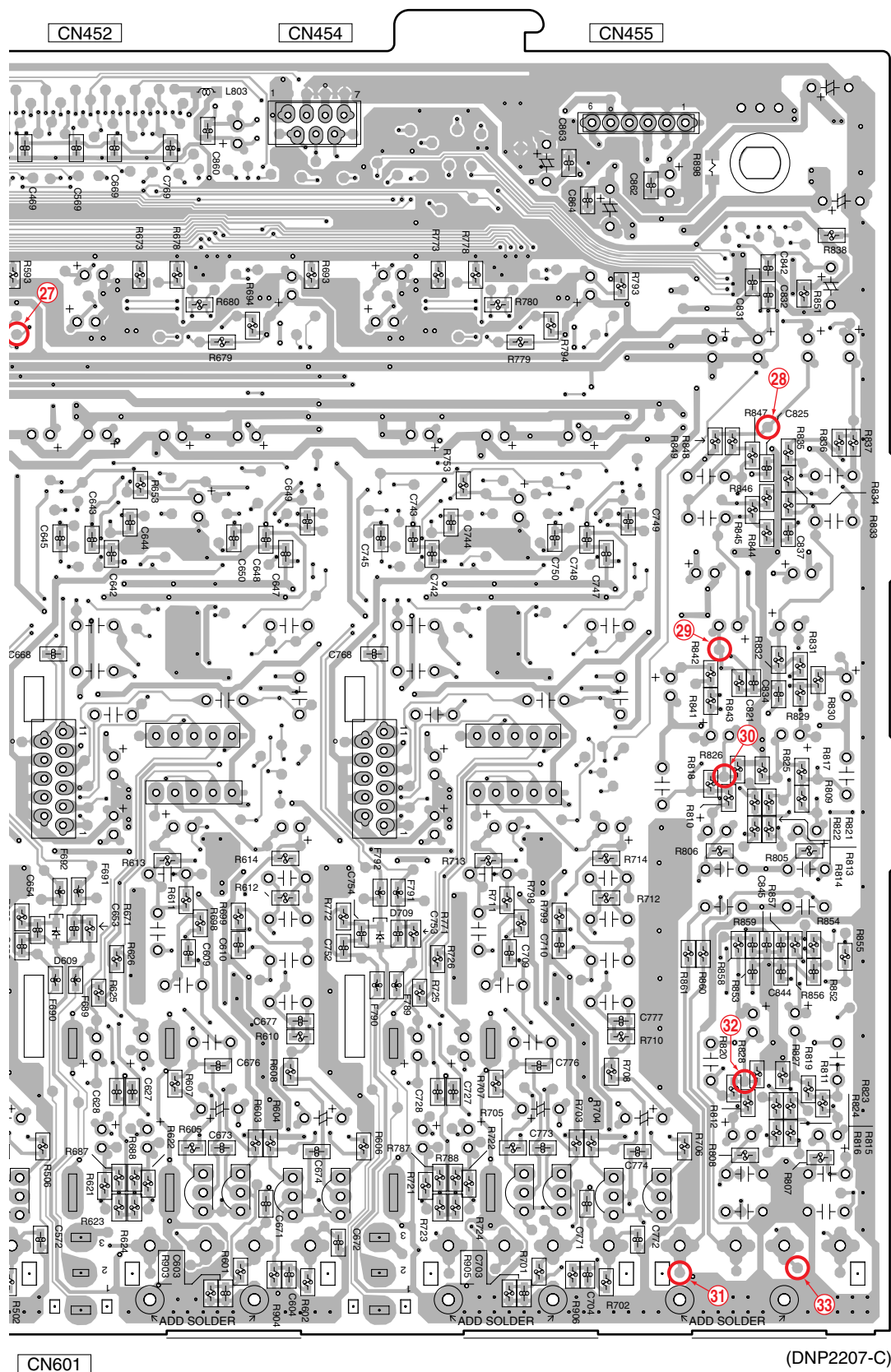
B

C

D

E

F



NOTE : The encircled numbers denote measuring point.

A

DJM-800

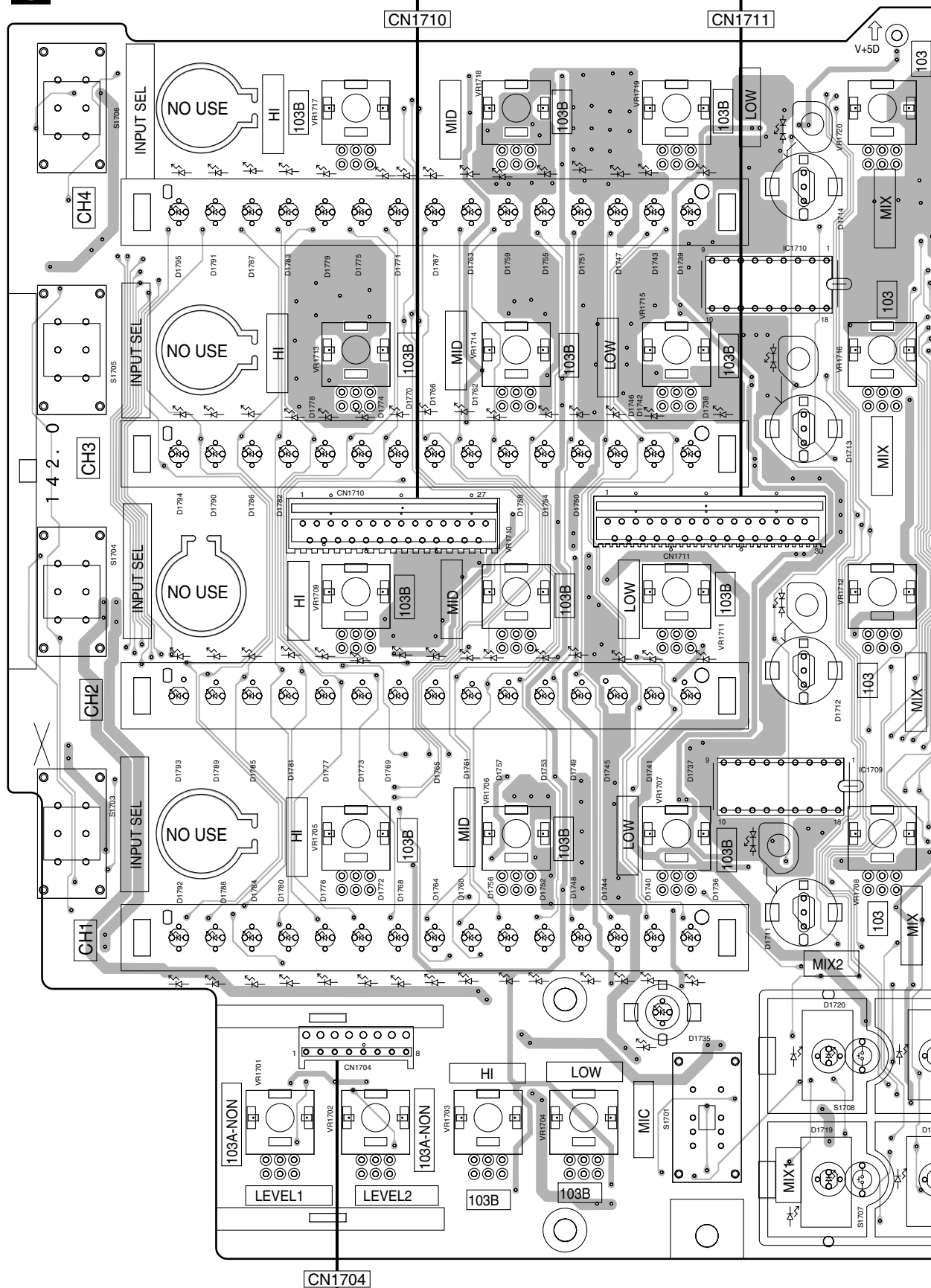
4.2 PANEL 1 ASSY

SIDE A

C PANEL1 ASSY

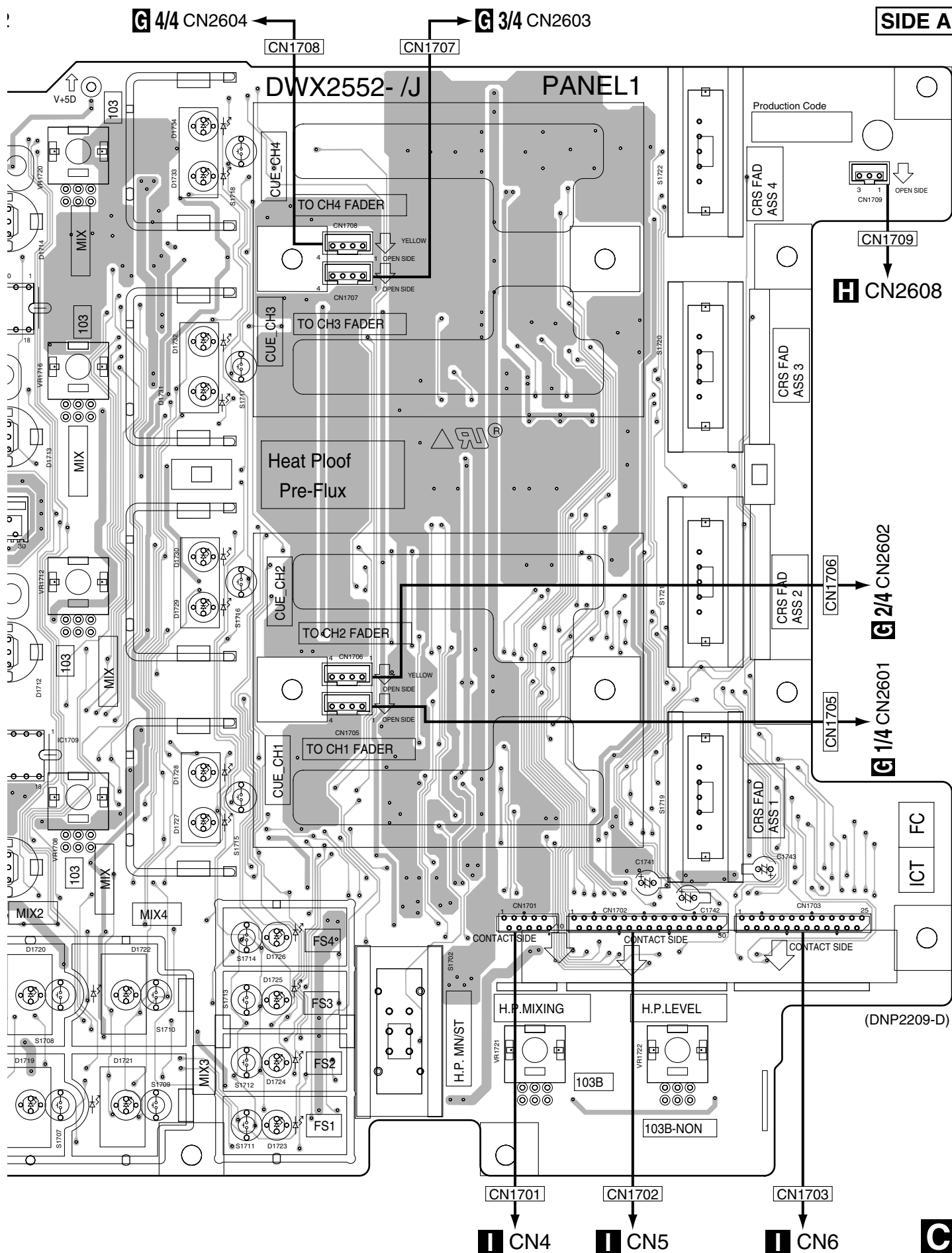
F CN2101

F CN2102



B CN1503

DJM-800



SIDE B

C PANEL1 ASSY

CN1708

CN1707

DWX2552- /J
PANEL1

CN1709

CN1705

CN1703

CN1702

CN1701

DJM-800

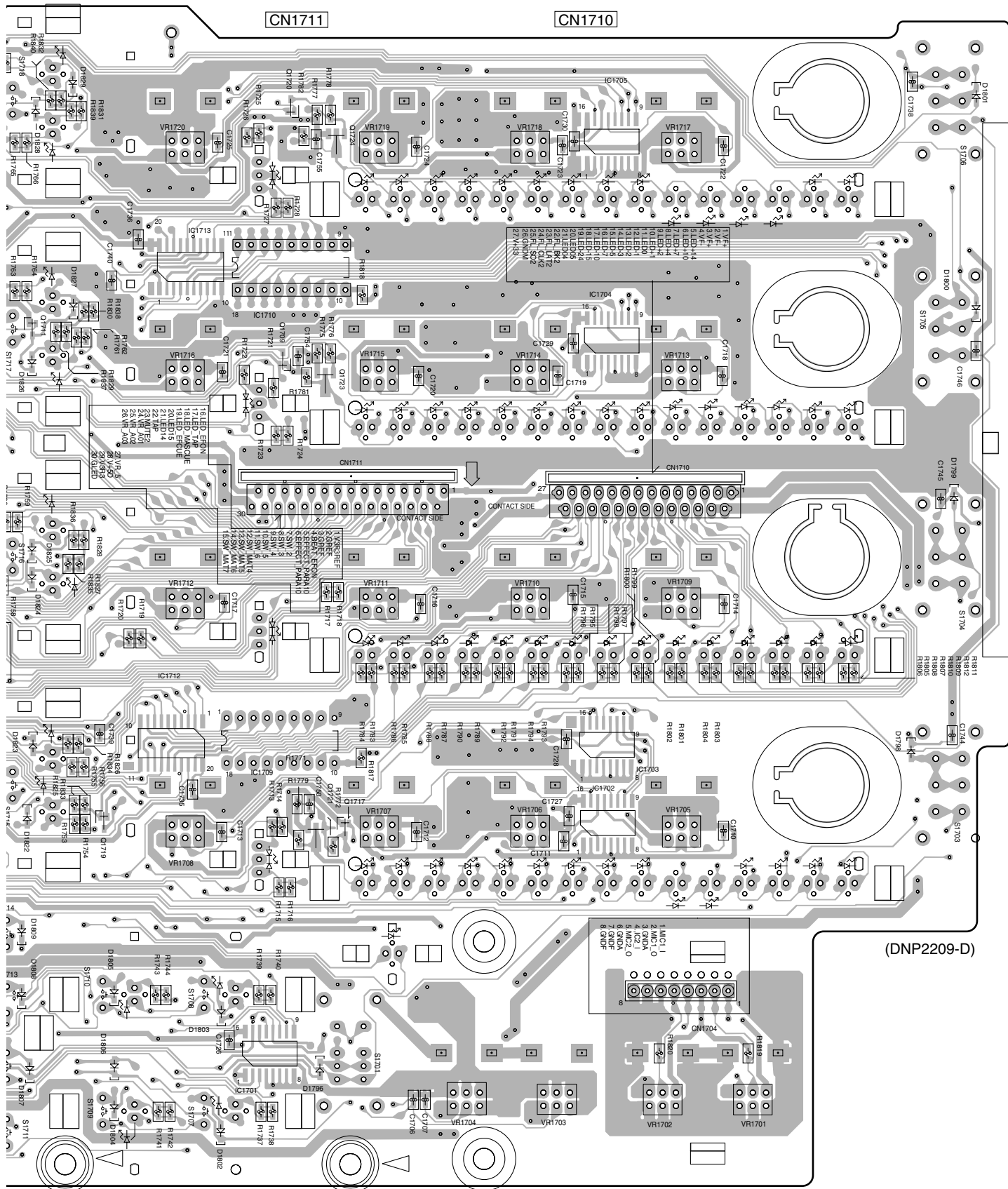
1

2

3

4

SIDE B



(DNP2209-D)

CN1704

CN1710

CN1711

DJM-800



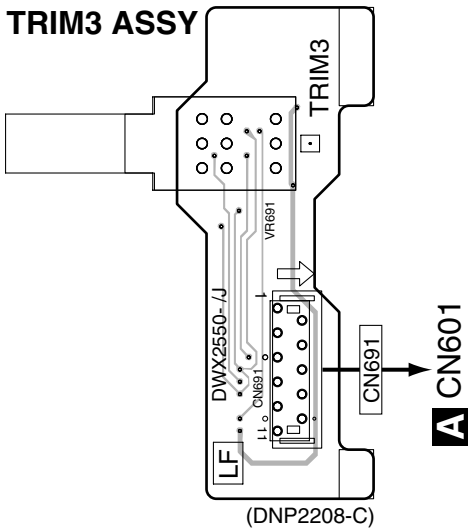
1 2 3 4

4.3 TRIM 1 to TRIM 4 and ACSW ASSYS

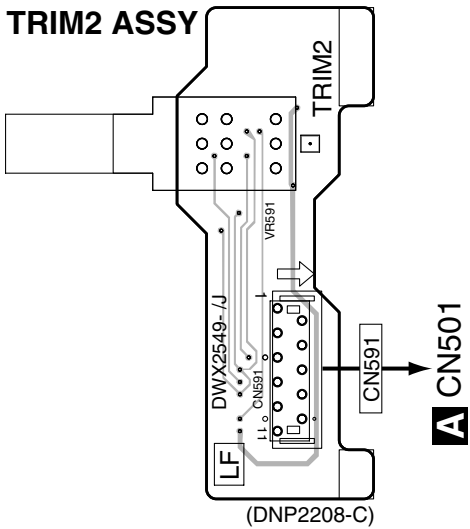
A SIDE A

SIDE A

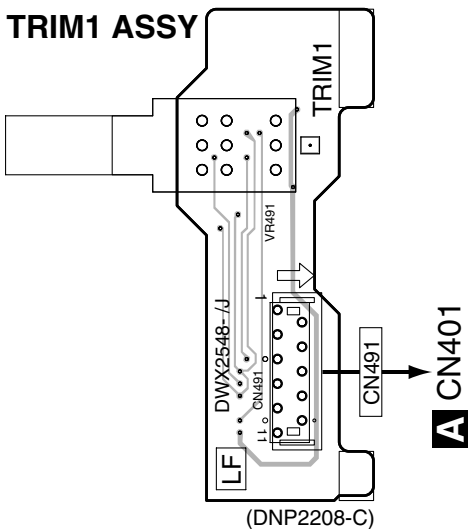
D 2/4 TRIM3 ASSY



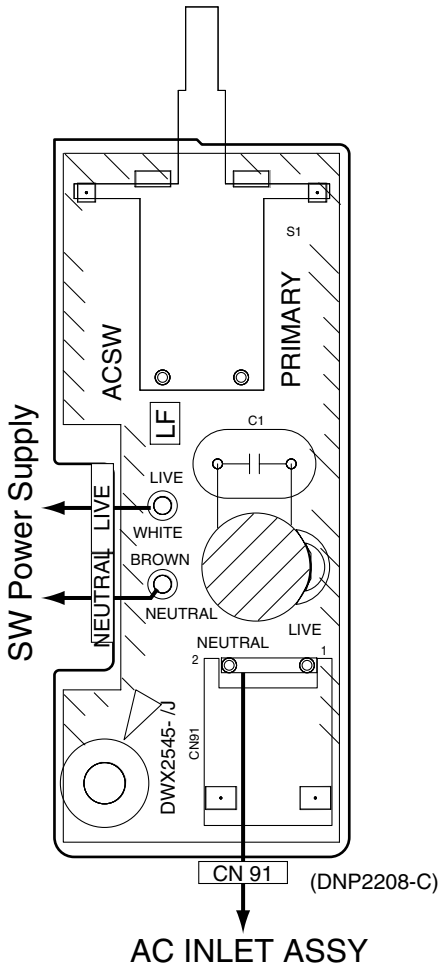
D 3/4 TRIM2 ASSY



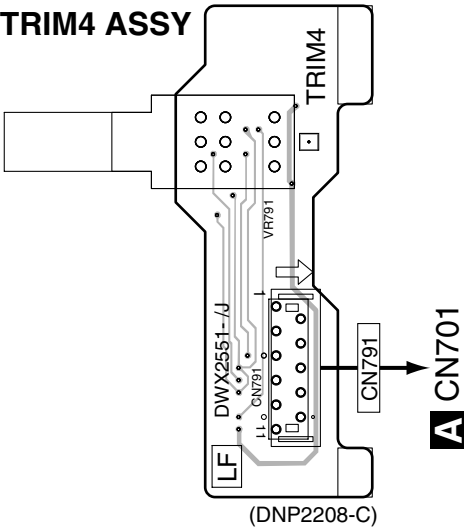
D 4/4 TRIM1 ASSY



R ACSW ASSY

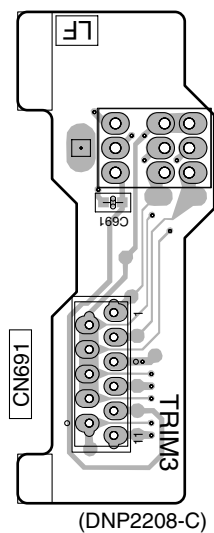
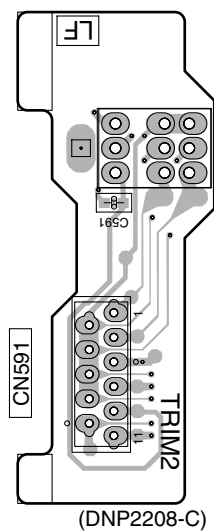
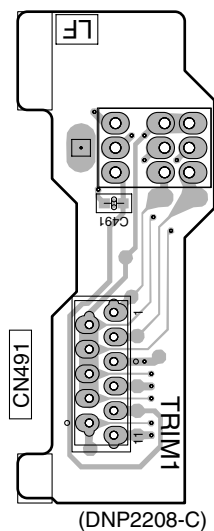
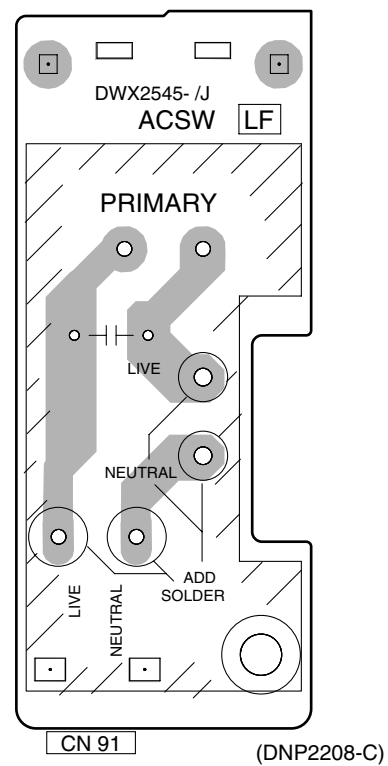
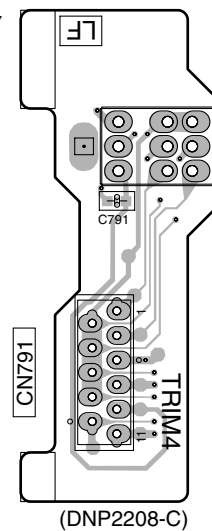


D 1/4 TRIM4 ASSY



D 1/4-4/4 R

D 1/4-4/4 R

SIDE B**SIDE B****D 2/4 TRIM3 ASSY****D 3/4 TRIM2 ASSY****D 4/4 TRIM1 ASSY****D 1/4-4/4 R****R ACSW ASSY****D 1/4 TRIM4 ASSY****D 1/4-4/4 R**

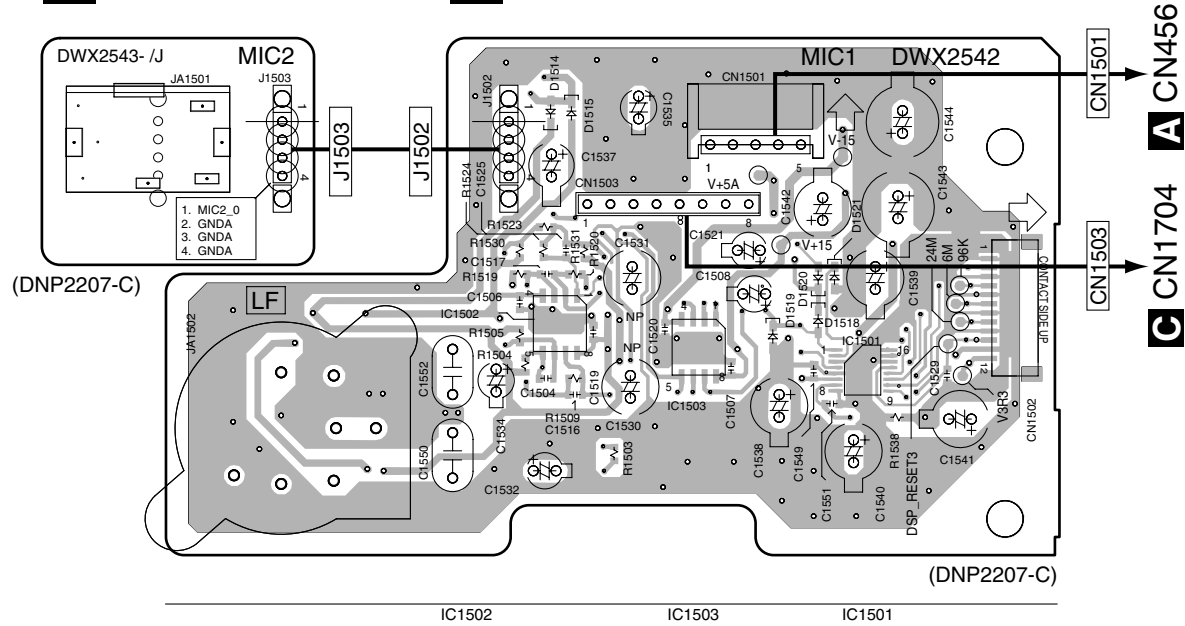
4.4 MIC1 and MIC2 ASSYS

SIDE A

SIDE A

E MIC2 ASSY

B MIC1 ASSY

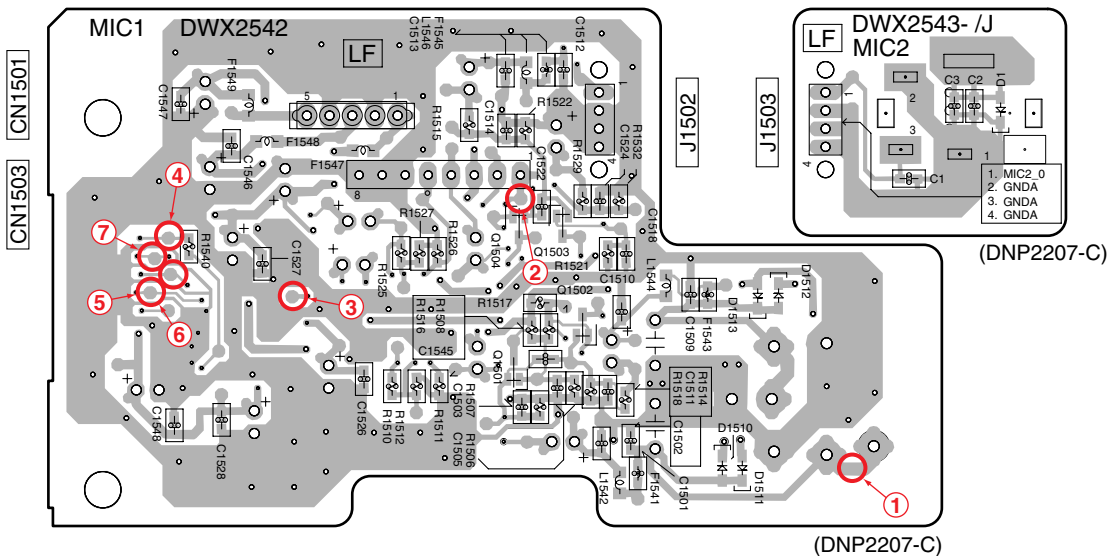


SIDE B

SIDE B

B MIC1 ASSY

E MIC2 ASSY



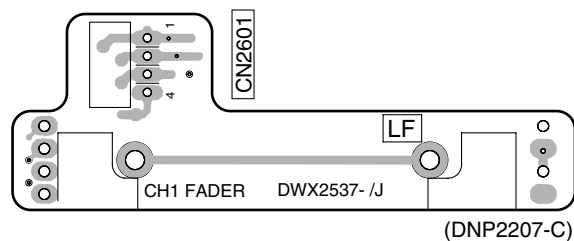
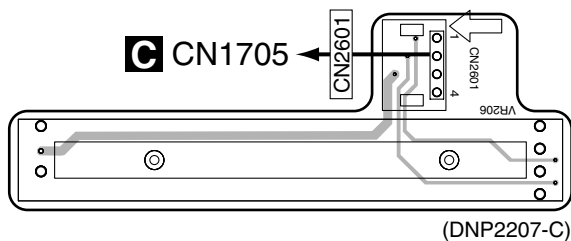
NOTE : The encircled numbers denote measuring point.

4.5 CHFD1, CHFD2, CHFD3 and CHFD4 ASSYS

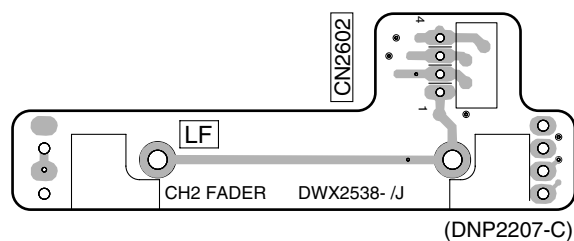
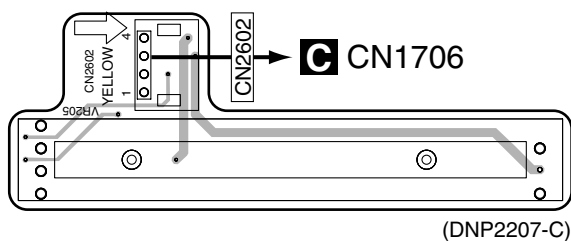
SIDE A

SIDE B

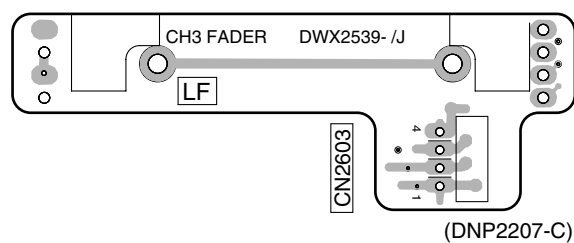
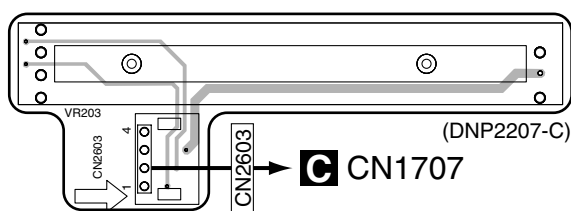
G 1/4 CHFD1 ASSY



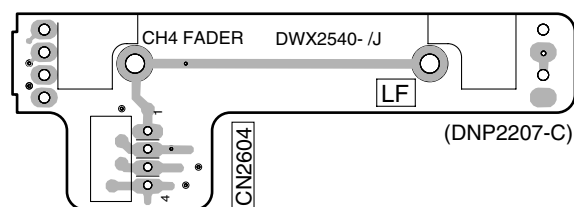
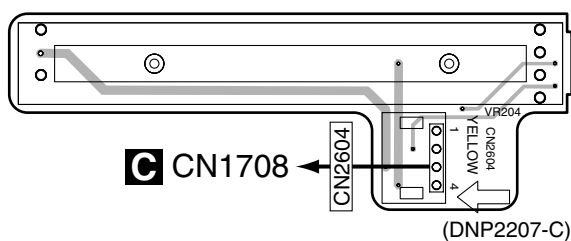
G 2/4 CHFD2 ASSY



G 3/4 CHFD3 ASSY



G 4/4 CHFD4 ASSY



G 1/4-4/4

G 1/4-4/4

△

A

B



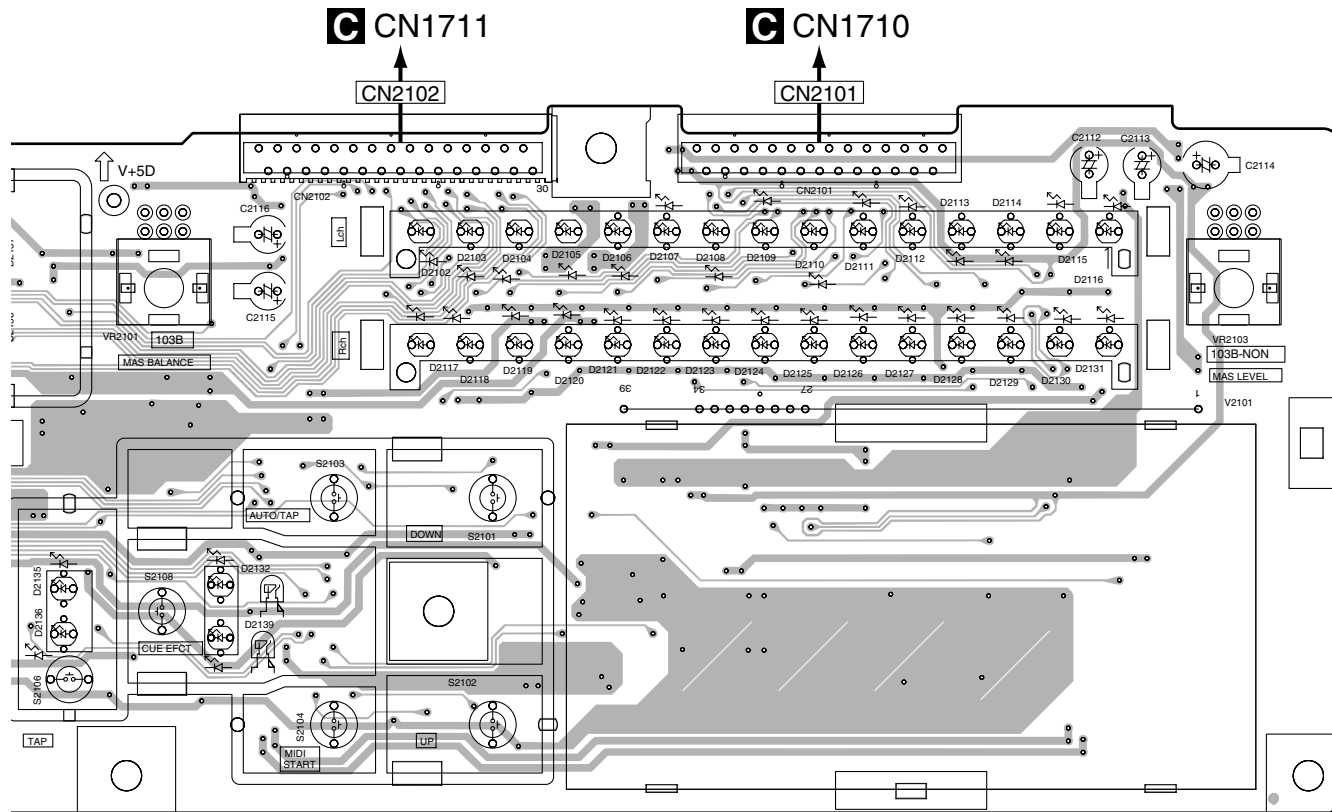
D



F

SIDE A

A



(DNP2210-C)

B

C

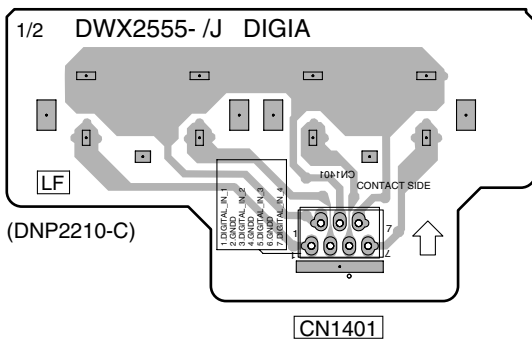
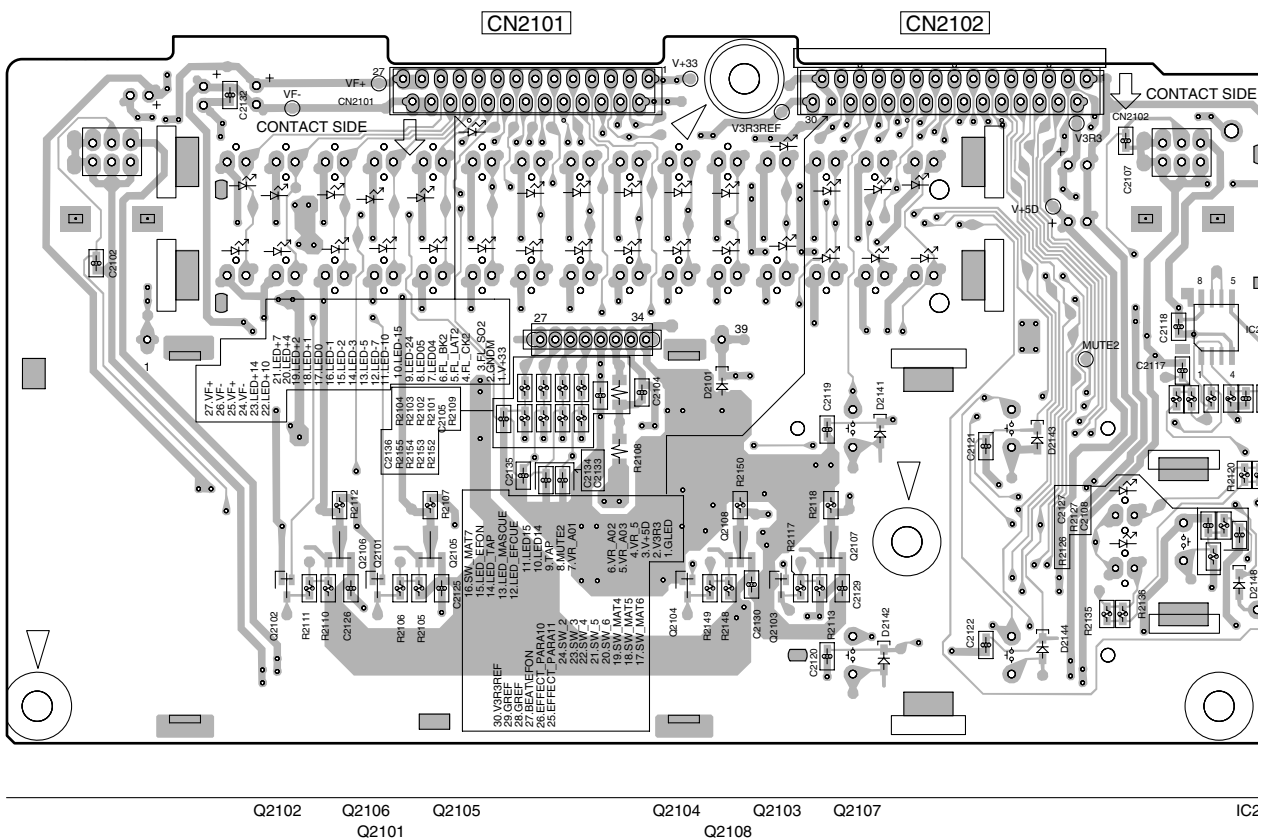
D

E

F

F

F



4.7 DSP ASSY

SIDE A

DSP ASSY

A

B

C

D

E

F

100

1

2

3

4

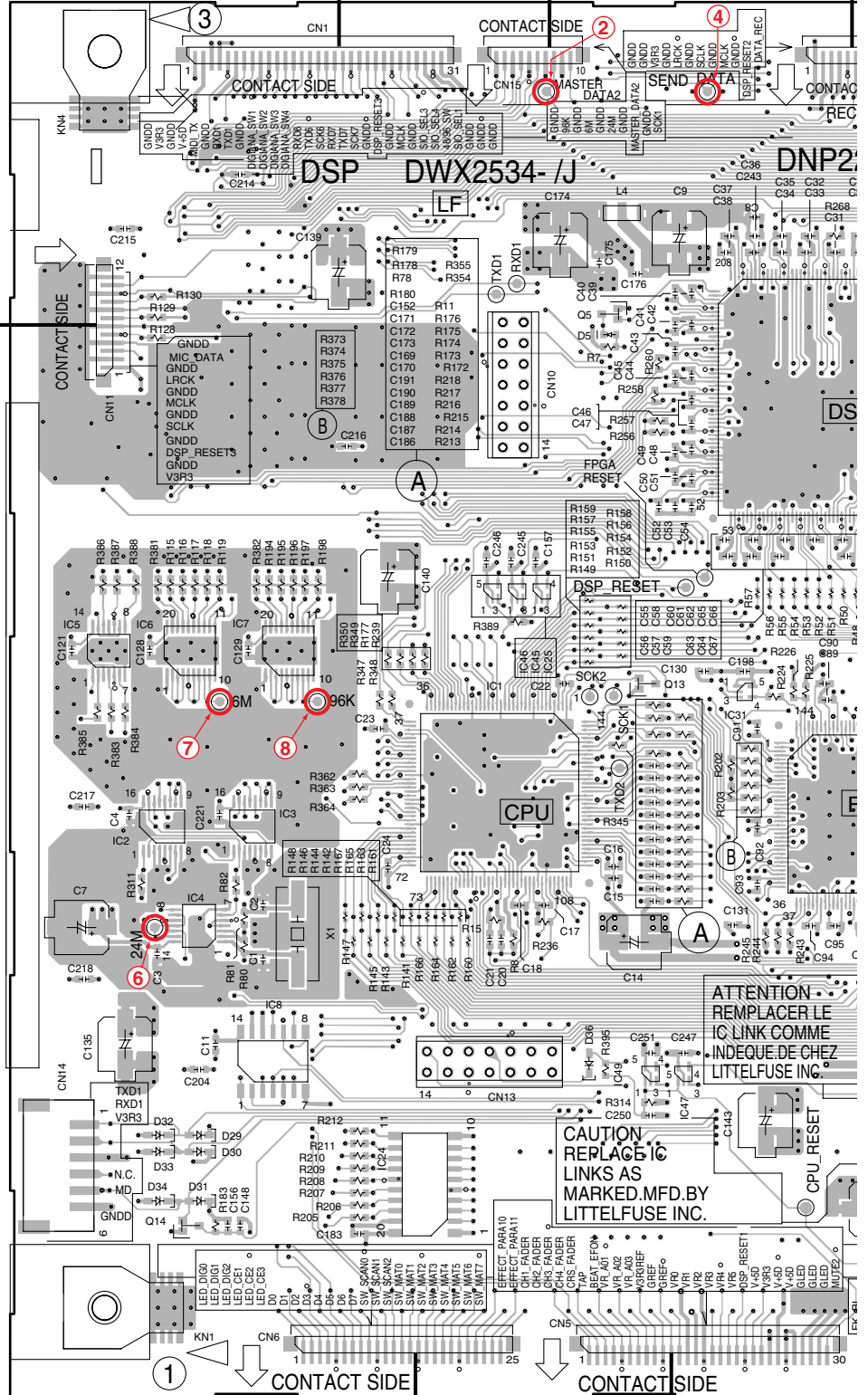
1

2

3

4

DJM-800

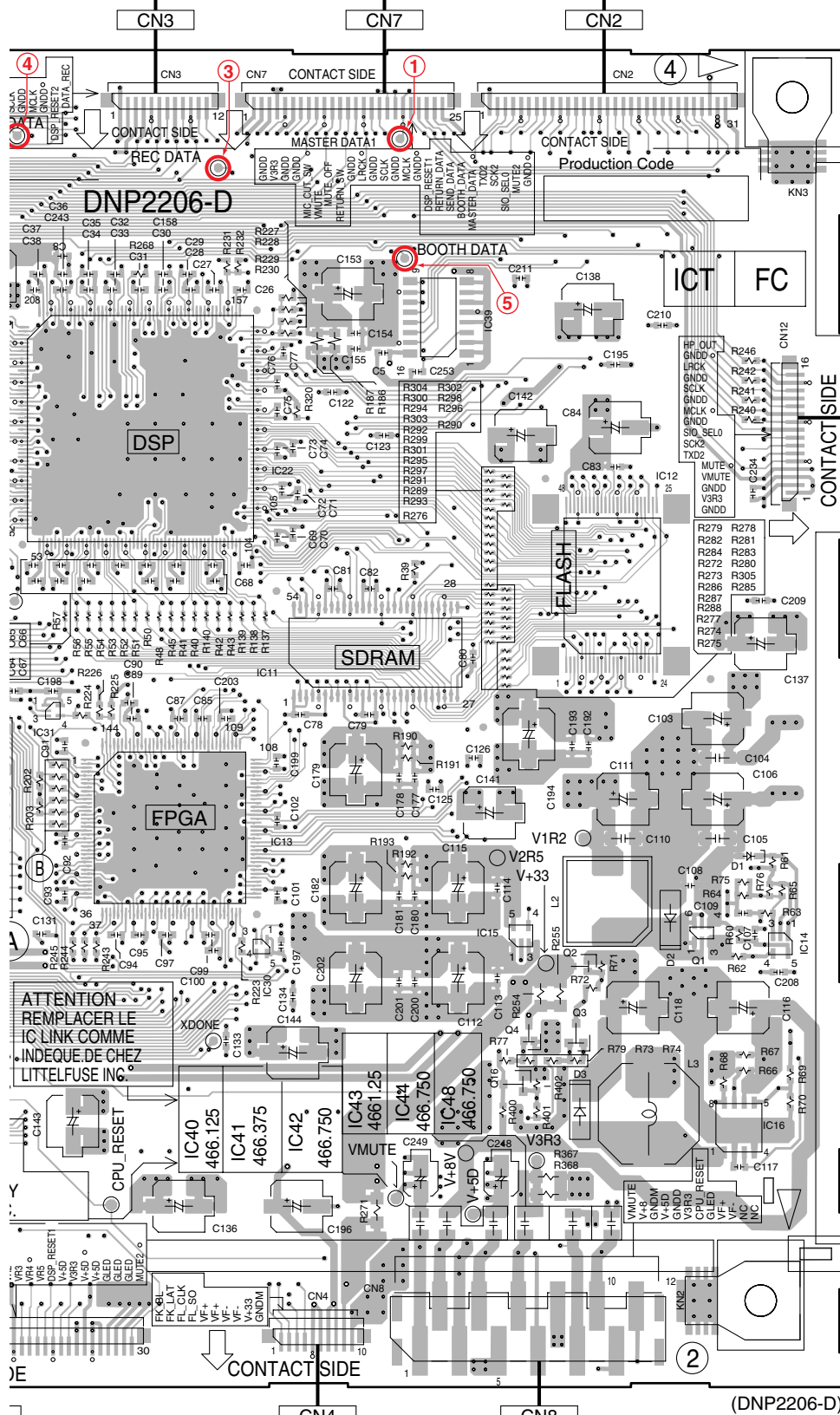


CN1703

CN1702

A CN451**J** CN901**A** CN452**SIDE A**

A



702

C CN1701**Q** CN201

NOTE : The encircled numbers denote measuring point.

F

1

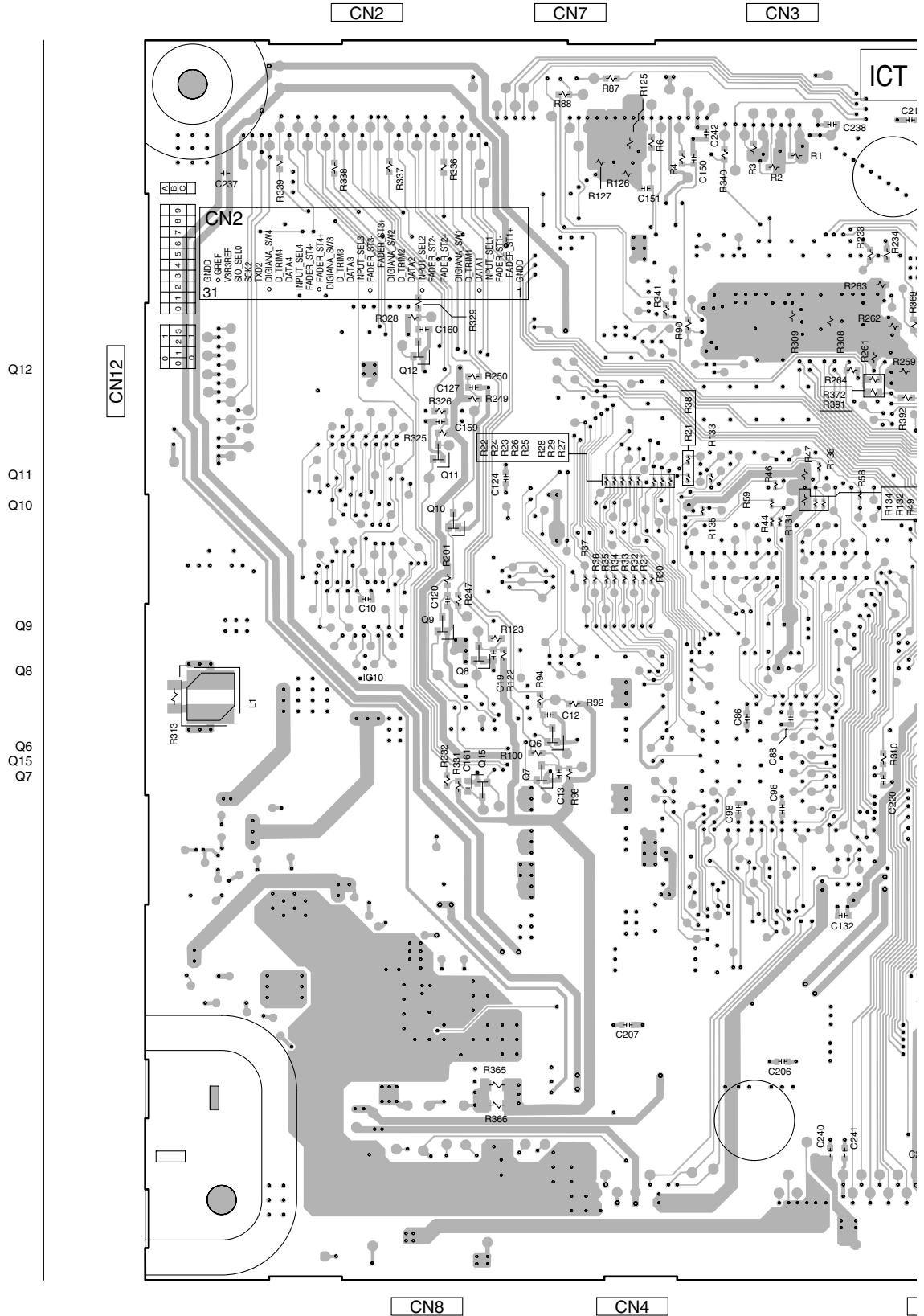
2

3

4

SIDE B

DSP ASSY



1

2

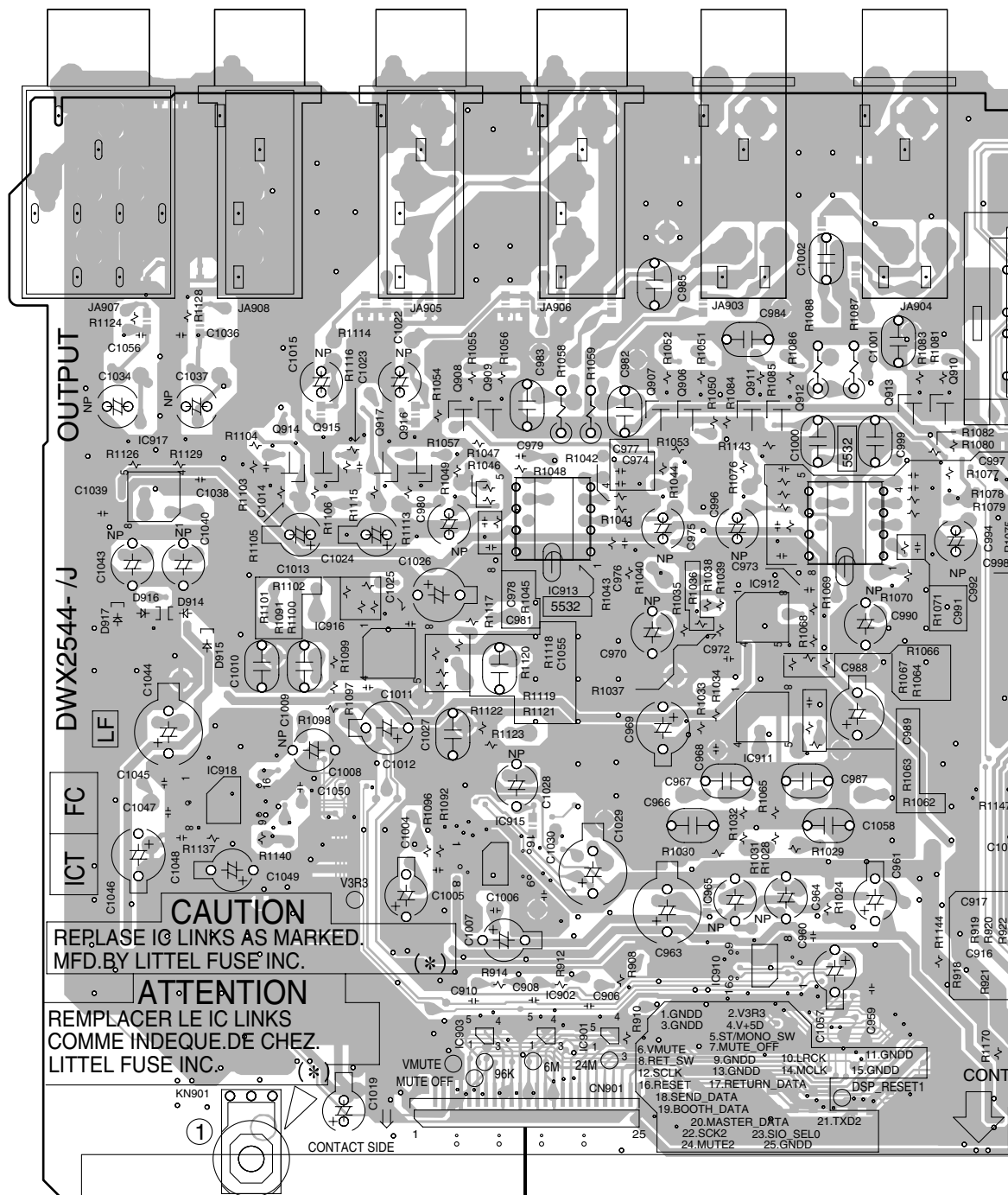
3

4

4.8 OUTPUT ASSY

SIDE A

J OUTPUT ASSY



CN901

CN7

IC917 IC918 IC916 IC903 IC913 IC911 IC910 IC912
Q914 Q917 Q908 Q909 Q907 Q911 Q912 Q913 Q910
Q915 Q916 Q905

DJM-800

A

B

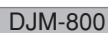
C

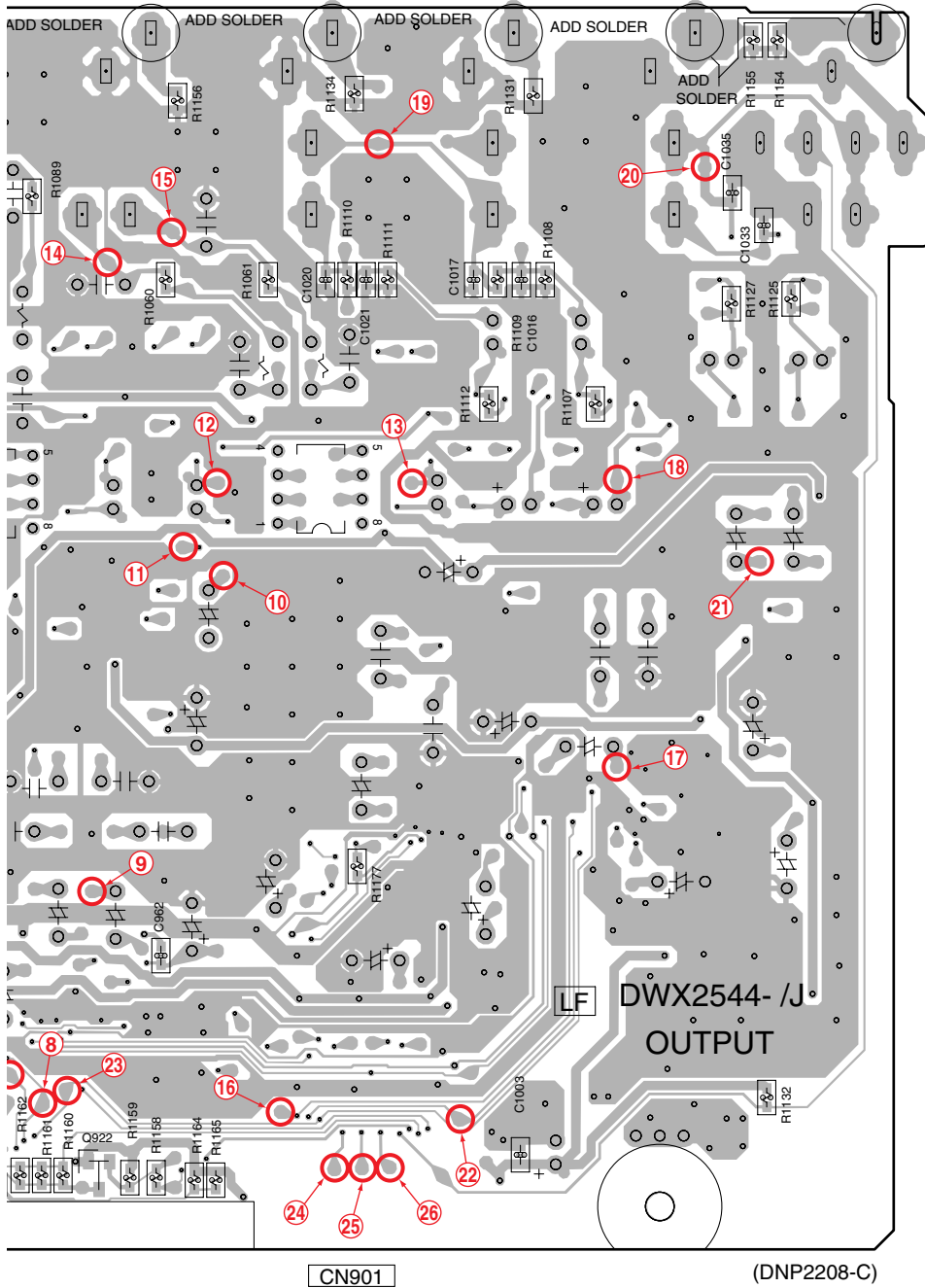
D

F

F

105





NOTE : The encircled numbers denote measuring point.

4

B



C CN1709

C

D

E



IC12

IC1219 IC1201 IC1217 IC1207 IC1213 IC1218 IC1216

Q1201

F

108

4

A

B

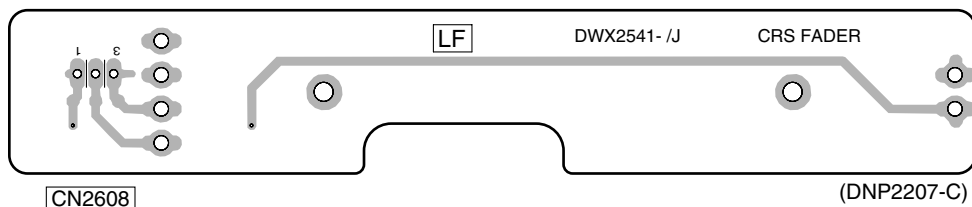
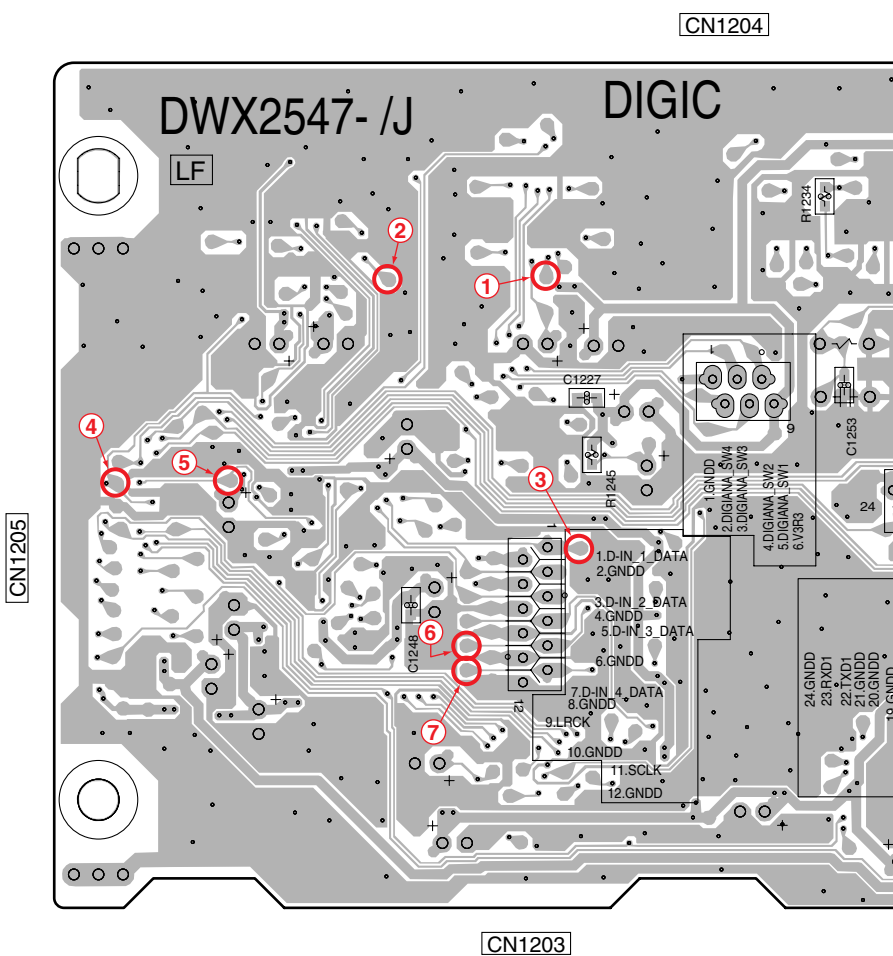


E

F

SIDE B

H CRSFD ASSY

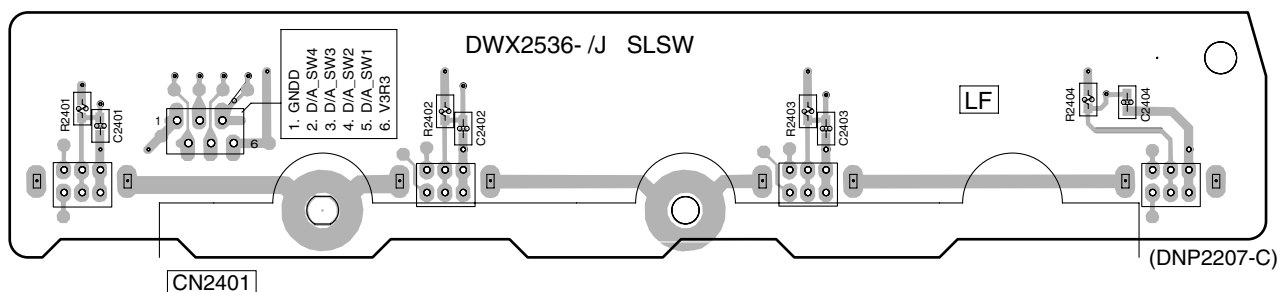
**K DIGIC ASSY**

NOTE : The encircled numbers denote measuring point.

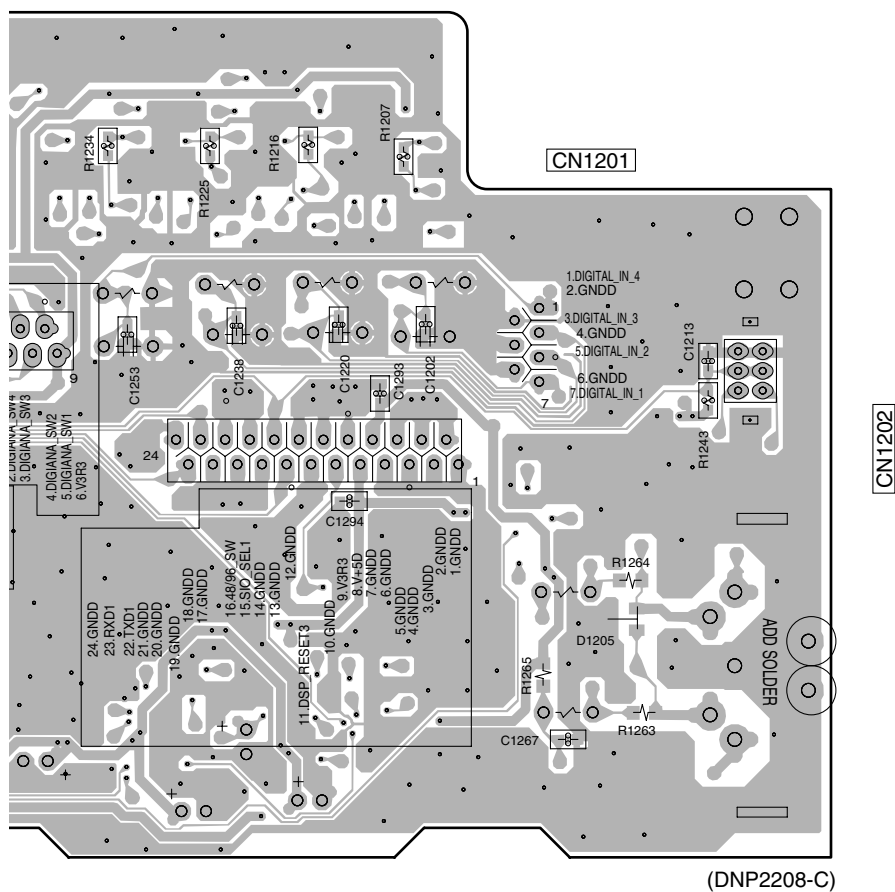
K H

SIDE B

A

N SLSW ASSY

204



B

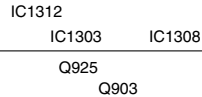
C

D

E

F

△

I CN15

△

F

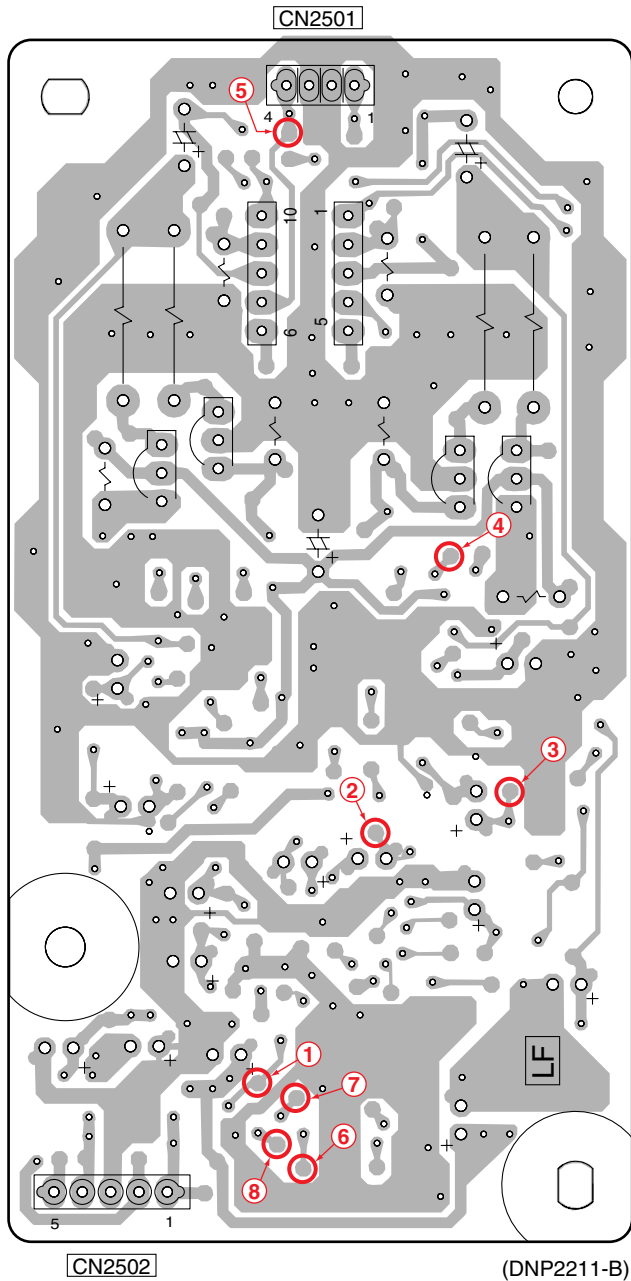


SIDE B

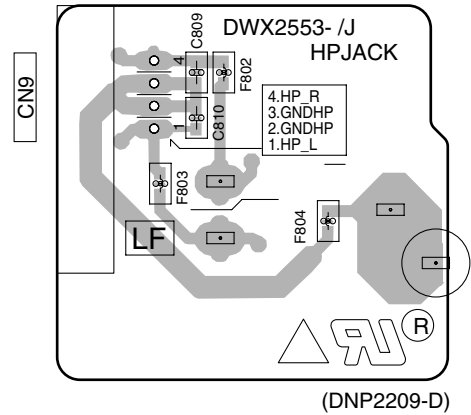
SIDE B

A

O HPAMP ASSY



P HPJACK ASSY



B

C

D

E

NOTE : The encircled numbers denote measuring point.

F

O

P O

5. PCB PARTS LIST

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

●The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

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

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

560 Ω → 56 x 10¹ → 561 RD1/4PU 5 6 1 J

47k Ω → 47 x 10³ → 473 RD1/4PU 4 7 3 J

0.5 Ω → R50 RN2H R 5 0 K

1 Ω → 1R0 RS1P 1 R 0 K

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

5.62k Ω → 562 x 10¹ → 5621 RN1/4PC 5 6 2 1 F

MarkNo. Description Part No. LIST OF ASSEMBLIES

NSP 1..INFD ASSY DWM2239
2..INPUT ASSY DWX2535
2..MIC 1 ASSY DWX2542
2..MIC 2 ASSY DWX2543
2..SLSW ASSY DWX2536
2..CHFD 1 ASSY DWX2537
2..CHFD 2 ASSY DWX2538
2..CHFD 3 ASSY DWX2539
2..CHFD 4 ASSY DWX2540
2..CRSFD ASSY DWX2541

NSP 1..OUDIG ASSY DWM2240
2..OUTPUT ASSY DWX2544
2..AC SW ASSY DWX2545
2..DIGIB ASSY DWX2546
2..DIGIC ASSY DWX2547
2..TRIM 1 ASSY DWX2548
2..TRIM 2 ASSY DWX2549
2..TRIM 3 ASSY DWX2550
2..TRIM 4 ASSY DWX2551

NSP 1....PANEL-A ASSY DWM2241
2..PANEL 1 ASSY DWX2552
2..HPJACK ASSY DWX2553

NSP 1....PANEL-B ASSY DWM2242
2..PANEL 2 ASSY DWX2554
2..DIGI A ASSY DWX2555

1..DSP ASSY DWX2534

1..HPAMP ASSY DWX2556

⚠ 1..POWER SUPPLY UNIT DWR1433

Mark No. Description Part No.

IC451-IC456, IC806, IC807 TC7SH08FUS1
IC408, IC508, IC608, IC708 TC7WH157FU
Q801-Q808 2SC3326
Q504-Q507, Q604-Q607 2SK371D1
Q704-Q707 2SK371D1

Q401, Q501, Q601, Q701 DTC124EUA
D410, D411, D510, D511 1SS355
D610, D611, D710, D711 1SS355
D401-D404, D501-D504 RB706D-40
D601-D604, D701-D704 RB706D-40

D409, D509, D609, D709 UDZS5R6(B)

COILS AND FILTERS

L803 LCKAW221J2520
F489-F492, F589-F592 VTF1093
F689-F692, F789-F792 VTF1093

SWITCHES AND RELAYS

RY401, RY501, RY601, RY701 VSR1008

CAPACITORS

C403-C406, C421-C424, C435 CCSRCH101J50
C440, C444, C445, C449, C450 CCSRCH101J50
C521-C524, C535, C540 CCSRCH101J50
C544, C545, C549, C550 CCSRCH101J50
C621-C624, C635, C640 CCSRCH101J50

C644, C645, C649, C650 CCSRCH101J50
C721-C724, C735, C740 CCSRCH101J50
C744, C745, C749, C750 CCSRCH101J50
C571, C572, C671, C672 CCSRCH181J50
C771, C772 CCSRCH181J50

C503, C504, C603, C604 CCSRCH221J50
C703, C704 CCSRCH221J50
C509, C510, C609, C610 CCSRCH331J50
C709, C710 CCSRCH331J50
C573, C574, C673, C674 CCSRCH471J50

C773, C774 CCSRCH471J50
C465, C565, C665, C765 CEHAR100M16
C419, C420, C429, C430, C464 CEHAR100M35
C488-C490, C497, C519, C520 CEHAR100M35
C529, C530, C564, C566, C567 CEHAR100M35

C588, C589, C619, C620 CEHAR100M35
C629, C630, C664, C666, C667 CEHAR100M35
C688, C689, C699, C719, C720 CEHAR100M35
C729, C730, C764, C766, C767 CEHAR100M35
C788, C789, C809-C812 CEHAR100M35

C817-C820, C823, C826, C836 CEHAR100M35

Mark No. Description Part No.

A INPUT ASSY SEMICONDUCTORS

IC409, IC509, IC609, IC709 CS5361-KS
⚠ IC809, IC810 DEK1096
IC405, IC505, IC605, IC705 LM4040EIM3-2.5
IC501, IC601, IC701 NE5532AD
IC401-IC404, IC406, IC502-IC504 NJM4580MD

IC506, IC602-IC604, IC606 NJM4580MD
IC702-IC704, IC706, IC801, IC802 NJM4580MD
IC804 NJM4580MD
IC803 PCM1742KE
IC805 TA78L12F

5		6		7		8	
Mark No.	Description	Part No.		Mark No.	Description	Part No.	
C838		CEHAR100M35		R549, R564, R567, R646, R649		RN1/16SE1201D	
C462, C562, C662, C762		CEHAR101M10		R664, R667, R746, R749, R764		RN1/16SE1201D	
C507, C508, C607, C608		CEHAT471M25		R767		RN1/16SE1201D	A
C707, C708		CEHAT471M25					
C829, C841		CEJQ100M25		R407, R408, R423, R424		RN1/16SE1502D	
C866, C867, C870, C871		CEJQ101M25		R523, R524, R623, R624		RN1/16SE1502D	
C843		CEJQ221M10		R723, R724		RN1/16SE1502D	
C463, C563, C663, C763		CEJQ221M6R3		R430, R434, R530, R534, R630		RN1/16SE1503D	
C830, C833		CEJQ470M10		R634, R730, R734		RN1/16SE1503D	
C853, C861, C865		CEJQ470M25		R428, R432, R528, R532, R628		RN1/16SE2202D	
C432–C434, C437–C439		CFTNA334J50		R632, R728, R732		RN1/16SE2202D	
C532–C534, C537–C539		CFTNA334J50		R441, R443, R459, R461, R541		RN1/16SE2401D	
C632–C634, C637–C639		CFTNA334J50		R543, R559, R561, R641, R643		RN1/16SE2401D	
C732–C734, C737–C739		CFTNA334J50		R659, R661, R741, R743, R759		RN1/16SE2401D	
C402, C446, C451, C453–C455		CKSRYB103K50		R761		RN1/16SE2401D	B
C459, C502, C546, C551		CKSRYB103K50		R801–R804, R817–R820		RN1/16SE2700D	
C553–C555, C559, C602, C646		CKSRYB103K50		R436–R439, R444, R445		RN1/16SE3301D	
C651, C653–C655, C659, C702		CKSRYB103K50		R454–R457, R462, R463		RN1/16SE3301D	
C746, C751, C753–C755, C759		CKSRYB103K50		R474, R475, R536–R539		RN1/16SE3301D	
C831, C832, C842		CKSRYB103K50		R544, R545, R554–R557		RN1/16SE3301D	
C868, C869, C876		CKSRYB104K16		R562, R563, R596, R597		RN1/16SE3301D	
C401, C417, C418, C427, C428		CKSRYB104K25		R636–R639, R644, R645		RN1/16SE3301D	
C436, C441–C443, C447, C448		CKSRYB104K25		R654–R657, R662, R663		RN1/16SE3301D	
C458, C468, C469, C491–C496		CKSRYB104K25		R674, R675, R696, R697		RN1/16SE3301D	
C501, C517, C518, C527, C528		CKSRYB104K25		R736–R739, R744, R745		RN1/16SE3301D	C
C536, C541–C543, C547, C548		CKSRYB104K25		R754–R757, R762, R763		RN1/16SE3301D	
C558, C568, C569, C600		CKSRYB104K25		R774, R775, R796, R797		RN1/16SE3301D	
C617, C618, C627, C628, C636		CKSRYB104K25		R447, R448, R465, R466		RN1/16SE3601D	
C641–C643, C647, C648, C658		CKSRYB104K25		R547, R548, R565, R566		RN1/16SE3601D	
C668, C669, C701, C717, C718		CKSRYB104K25		R647, R648, R665, R666		RN1/16SE3601D	
C727, C728, C736, C741–C743		CKSRYB104K25		R747, R748, R765, R766		RN1/16SE3601D	
C747, C748, C758, C768, C769		CKSRYB104K25		R809–R812		RN1/16SE4300D	
C821, C825, C834, C837		CKSRYB104K25		R503–R506, R603–R606		RN1/16SE8200D	
C844, C845, C852, C860		CKSRYB104K25		R703–R706		RN1/16SE8200D	
C862–C864, C872, C873		CKSRYB104K25		R429, R433, R529, R533, R629		RN1/16SE1202D	
C877, C878		CKSRYB104K25		R633, R729, R733		RN1/16SE1202D	
C457, C557, C657, C757		CKSRYB104K50		R898		RS1/8S0R0J	D
C470, C475, C570, C575, C670		CKSRYB272K50		R511, R512, R611, R612		RSK1/16S222J	
C675, C770, C775		CKSRYB272K50		R711, R712		RSK1/16S222J	
C452, C552, C652, C752		CKSRYB473K50		R509, R510, R609, R610		RSK1/16S273J	
C511, C512, C611, C612		CQMA124J50		R709, R710		RSK1/16S273J	
C711, C712		CQMA124J50		R507, R508, R607, R608		RSK1/16S510J	
C514, C515, C614, C615		CQMA222J50		R707, R708		RSK1/16S510J	
C714, C715, C801–C804		CQMA222J50		Other Resistors		RS1/16S###J	
C505, C506, C605, C606		CQMA223J50		OTHERS			
C705, C706		CQMA223J50		CN454 7P FFC CONNECTOR		52044-0745	E
C828, C840		CQMA272J50		CN453 12P FFC CONNECTOR		52044-1245	
C513, C516, C613, C616, C713		CQMA333J50		CN451 12P FFC CONNECTOR		DKN1450	
C716		CQMA333J50		CN452 31P FFC CONNECTOR		DKN1451	
C805–C808, C827, C839		CQMA392J50		SHIELD CASE S		DNH2717	
C813–C816		CQMA682J50		JA402 REMOTE CONTROL JACK		RKN1004	
RESISTORS				JA502 REMOTE CONTROL JACK		RKN1004	
R401, R402, R419, R420		RN1/16SE1001D		JA602 REMOTE CONTROL JACK		RKN1004	
R519, R520, R619, R620		RN1/16SE1001D		JA702 REMOTE CONTROL JACK		RKN1004	
R719, R720		RN1/16SE1001D		CN455 6P SIDE POST		S6B-EH	
R403, R404, R421, R422		RN1/16SE1102D					
R521, R522, R621, R622		RN1/16SE1102D		JA401, JA501, JA601, JA701, JA801 4P JACK		VKB1132	F
R721, R722		RN1/16SE1102D		KN1, KN2 WRAPPING TERMINAL		VNF1084	
R446, R449, R464, R467, R546		RN1/16SE1201D		CN401, CN501, CN601, CN701 11P PLUG		XKP3065	

Mark No. Description**Part No.****Mark No. Description****Part No.****B MIC1 ASSY**
SEMICONDUCTORSIC1501
IC1502, IC1503
Q1501–Q1504
D1510–D1515
D1518–D1521AK5381VT
NJM4580MD
2SC4081
1SS355
RB501V-40**COILS AND FILTERS**F1547–F1549
F1541, F1543, F1545
L1542, L1544, L1546DTF1069
VTF1093
VTL1105**SWITCHES AND RELAYS**S1707–S1718
S1702
S1719–S1722
S1701
S1703–S1706DSG1079
DSH1057
DSH1058
DSK1026
DSK1033**CAPACITORS**C1741–C1743
C1737, C1739, C1740
C1701–C1736, C1747–C1755CEHAT101M16
CKSRYB103K50
CKSRYB104K25**RESISTORS**VR1703–VR1707, VR1709–VR1711
VR1713–VR1715, VR1717–VR1719, VR1721
VR1701, VR1702
VR1722
VR1708, VR1712, VR1716, VR1720DCS1065
DCS1065
DCS1072
DCS1086
DCS1095

Other Resistors

RS1/16S###J

OTHERSCN1710 FFC BOTTOM CONNECTOR 27P 52492-2720
CN1711 FFC CONNECTOR 30P 52492-3020
CN1709 KR CONNECTOR 3P B3B-PH-K
CN1705, CN1707 KR CONNECTOR B4B-PH-K
CN1706, CN1708 KR CONNECTOR B4B-PH-K-YCN1701 10P FFC CONNECTOR
CN1702 30P FFC CONNECTOR
CN1703 25P FFC CONNECTOR
CN1704 CONNECTORDKN1454
DKN1455
DKN1456
DKP3684**D 4/4 TRIM1 ASSY**
CAPACITORS

C491

CKSRYB104K50

RESISTORS

VR491

DCS1089

OTHERS

CN491 11P SOCKET

XKP3076

D 3/4 TRIM2 ASSY
CAPACITORS

C591

CKSRYB104K50

RESISTORS

VR591

DCS1089

CAPACITORSC1505, C1516, C1518, C1525
C1501–C1503, C1509–C1514, C1524
C1504, C1517
C1508, C1521, C1532, C1534, C1535
C1537CCSRCH101J50
CCSRCH102J50
CCSRCH331J50
CEAL100M16
CEAL100M16C1538
C1543, C1544
C1540
C1539, C1541, C1542
C1530, C1531CEAL101M10
CEAL101M25
CEAL470M10
CEAL470M16
CEALNP220M16C1550, C1552
C1529
C1506, C1507, C1519, C1520
C1546–C1549, C1551
C1526–C1528CFTLA103J50
CKSRYB103K50
CKSRYB104K25
CKSRYB104K25
CKSRYB104K50

C1545

CKSRYB472K50

RESISTORSR1503, R1514, R1515, R1529
R1504, R1505, R1519, R1520
R1508, R1523
R1506, R1509, R1510, R1521
R1524, R1525RN1/16SE1000D
RN1/16SE1501D
RN1/16SE3300D
RN1/16SE3901D
RN1/16SE3901DR1516, R1517, R1530, R1531
Other ResistorsRN1/16SE4701D
RS1/16S###J**OTHERS**0 4P CABLE HOLDER
JA1502 CANON CONNECTOR
CN1503 CONNECTOR
CN1502 12P FFC CONNECTOR
J1502 4P JUMPER WIRE51048-0400
DKB1068
DKN1408
DKN1450
DKP3767

CN1501 5P SIDE POST

S5B-EH

C PANEL1 ASSY
SEMICONDUCTORSIC1706–IC1708
IC1711–IC1713
IC1701–IC1705
IC1714
IC1709, IC1710TC74HC238AF
TC74HC273AF
TC74HC4051AF
TC74HCT08AF
TD62083APGQ1705–Q1708, Q1721–Q1724
Q1701–Q1704, Q1709–Q17202SB1188
DTC143EUA

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Mark No. **Description**

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Part No.

OTHERS

CN591 11P SOCKET

XKP3076

D 2/4 TRIM3 ASSY

CAPACITORS

C691

CKSRYB104K50

RESISTORS

VR691

DCS1089

OTHERS

CN691 11P SOCKET

XKP3076

D 1/4 TRIM4 ASSY

CAPACITORS

C791

CKSRYB104K50

RESISTORS

VR791

DCS1089

OTHERS

CN791 11P SOCKET

XKP3076

E MIC2 ASSY

SEMICONDUCTORS

D1

UDZS5R6(B)

CAPACITORS

C2
C1

CKSRYB103K50
CKSRYB472K50

OTHERS

0 4P CABLE HOLDER
JA1501 MIC JACK
EARTH PLATE (MIC)

51048-0400
DKB1076
DNH2735

F PANEL2 ASSY

SEMICONDUCTORS

IC2102
IC2101
Q2105-Q2108
Q2101-Q2104
D2141-D2163

NJM2903M
TC74HC4051AF
2SB1188
DTC143EUA
1SS355

D2115, D2116, D2130, D2131
D2111-D2114, D2126-D2129
D2133-D2138
D2132, D2139
D2102-D2110, D2117-D2125

SLI-343URCW(RST)
SLI-343YCW(RST)
SLI-343YCW(RST)
SLR-343EBT(KLMN)
TLGE68TG(NP)

D2101

UDZS2R0(B)

SWITCHES AND RELAYS

S2101-S2104, S2106-S2109

DSG1079

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Mark No. **Description**

8

Part No.

S2113, S2114
S2105
S2110
S2111, S2112

DSH1058
DSH1066
DSX1064
DSX1068

CAPACITORS

C2112, C2113, C2115, C2116
C2114
C2104, C2123, C2124, C2127, C2128
C2132
C2101-C2103, C2105-C2107

CEHAT101M10
CEHAT470M50
CKSRYB103K50
CKSRYB103K50
CKSRYB104K25

C2117, C2118, C2125, C2126
C2129-C2131

CKSRYB104K25
CKSRYB104K25

RESISTORS

R2108, R2109
VR2101, VR2104
VR2102, VR2103
Other Resistors

RS1/8S100J
DCS1065
DCS1086
RS1/16S###J

OTHERS

CN2101 FFC BOTTOM CONNECTOR 52492-2720
CN2102 FFC CONNECTOR 30P 52492-3020
V2101 FL INDICATOR TUBE DEL1061
0 FL HOLDER DNF1732

G 1/4 CHFD1 ASSY

RESISTORS

VR206

DCV1020

OTHERS

CN2601 KR CONNECTOR

S4B-PH-K

G 2/4 CHFD2 ASSY

RESISTORS

VR205

DCV1020

OTHERS

CN2602 KR CONNECTOR

S4B-PH-K-Y

G 3/4 CHFD3 ASSY

RESISTORS

VR203

DCV1020

OTHERS

CN2603 KR CONNECTOR

S4B-PH-K

G 4/4 CHFD4 ASSY

RESISTORS

VR204

DCV1020

OTHERS

CN2604 KR CONNECTOR

S4B-PH-K-Y

H CRSFD ASSY

RESISTORS

VR202

DCV1006

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

CN2608 KR CONNECTOR

S3B-PH-K

C150–C152, C158–C161
C165–C168, C19, C220
C186–C189, C190, C191, C252
C100–C102, C107, C113, C114
C197–C199, C203, C247CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB104K16
CKSRYB104K16**I DSP ASSY
SEMICONDUCTORS**

IC22

D610A003BPYP225

⚠ IC40

DEK1086

⚠ IC41

DEK1094

⚠ IC42, IC44, IC48

DEK1096

⚠ IC43

DEK1098

C85–C99
C11, C121–C126, C128–C134
C148, C149, C15, C154–C157
C16, C17, C175–C178, C18
C180, C181, C183, C192, C193CKSRYB104K16
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25

IC12

DYW1754

IC11

K4S641632H-TC75

IC16

NJM2374AM

IC1

DYW1757

IC14

R1224N102H

C195, C20, C200, C201
C204–C209, C21, C210–C218
C22, C221, C23, C234–C239
C24, C240–C246, C26–C29
C3, C30–C39, C4CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25

IC15

S-1200B25-M5

IC8

TC74HC32AF

IC39

TC74HC4051AF

IC24

TC74HC541AF

IC2, IC3

TC74VHC163FT

C40–C49, C5, C50–C79
C8, C80–C83
C108
C109
C169–C173CKSRYB104K25
CKSRYB104K25
CKSRYB105K10
CKSRYB332K50
CKSRYB471K50

IC6, IC7

TC74VHC541FTS1

IC4, IC5

TC74VHCU04FT

IC25, IC45–IC47

TC7S08FU

IC30, IC31

TC7SH08FUS1

IC13

XC3S50-4TQG144C

RESISTORS

R186

RS1/10S0R0J

R64

RS1/16S1502F

R70

RS1/16S2202F

R69

RS1/16S5603F

R65

RS1/16S7502F

IC0

MBM29LV400TC-70PFTN

Q2

2SA1576A

Q16, Q3

2SC2412K

Q4

2SC4081

Q1

CPH6314

R254, R255
R271, R365–R368
Other ResistorsRS1/4SA681J
RS1/8S0R0J
RS1/16S####J

Q13

DTA143EUA

Q14

DTC114EUA

Q10–Q12, Q15, Q5–Q9

DTC124EUA

D1, D19–D34, D36

1SS355

D2, D3

RB160L-40

OTHERS

CN14 PH CONNECTOR 6P(SMT)

AKM1292

X1 CRYSTAL RESONATOR

ASS7025

CN8

DKN1449

CN15, CN4 10P FFC CONNECTOR

VKN1414

CN11, CN3 12P FFC CONNECTOR

VKN1416

D5

SML-310DT

CN12 16P FFC CONNECTOR
CN6, CN7 25P FFC CONNECTOR
CN5 30P FFC CONNECTOR
CN1, CN2 31P FFC CONNECTOR
KN1–KN4 EARTH METAL FITTINGVKN1420
VKN1429
VKN1434
VKN1435
VNF1109**COILS AND FILTERS**

L1

ATH7011

L2

CTH1254

L3

DTL1123

L4

RTF1189

L5

CTF1346

**J OUTPUT ASSY
SEMICONDUCTORS**

IC904

AK4393VF

IC918

AK5381VT

⚠ IC1167–IC1169

DEK1096

IC908, IC909

NJM2114D

IC905–IC907, IC911, IC912

NJM4580MD

IC916, IC917

NJM4580MD

IC913, IC914

NJM5532DD

IC910, IC915

PCM1742KE

IC901–IC903

TC7SH08FUS1

Q901, Q902

2SA1576A

Q903, Q922, Q923

2SC2412K

Q906–Q921

2SC3326

Q924

DTA143EUA

Q904, Q905

DTC124EUA

CAPACITORS

C2

CCSRCH150J50

C1

CCSRCH180J50

C117

CCSRCH331J50

C248, C249

CEVW100M16

C118, C153, C174, C179, C182

CEVW100M50

C194, C202, C7, C84, C9

CEVW100M50

C103, C106, C111, C112

CEVW101M10

C115, C116, C135–C144, C196

CEVW101M10

C14

CEVW101M16

C10, C12, C120, C127, C13

CKSRYB103K50

Mark No.	Description	Part No.
	D901–D912, D918, D919	1SS355
	D914–D917	RB501V-40
COILS AND FILTERS		
	F101–F104	VTF1093
SWITCHES AND RELAYS		
	S902	DSG1083
	S901	VSH1025
	RY901, RY902	VSR1008
CAPACITORS		
	C1033, C1035	CCSRCH101J50
	C1036, C1056	CCSRCH102J50
	C974, C976, C978, C979, C991	CCSRCH151J50
	C993, C994, C997	CCSRCH151J50
	C934, C936, C938, C939	CCSRCH220J50
	C917, C918, C921, C924, C925	CCSRCH221J50
	C927, C930, C958	CCSRCH221J50
	C940, C942–C944, C946, C947	CCSRCH820J50
	C949, C950	CCSRCH820J50
	C1015, C1022, C1034, C1037	CEANP100M16
	C1008, C1028, C1040, C1043	CEANP100M25
	C1013, C1024	CEAT100M50
	C913	CEAT101M16
	C1012, C1026, C1046, C1051, C1052	CEAT101M25
	C1073–C1076, C969, C988	CEAT101M25
	C1004, C1007, C1049	CEAT470M10
	C1029, C1044, C1061	CEAT471M10
	C964, C965, C970, C990	CEHANP220M16
	C954	CEHANP220M25
	C975, C980, C992, C996	CEHANP470M25
	C1019, C904	CEHAT100M50
	C1069–C1072	CEHAT101M25
	C912	CEHAT221M10
	C1057, C961	CEHAT470M16
	C963	CEHAT471M16
	C1005, C1006, C1050, C1062, C901	CKSRYB103K50
	C1003, C1038, C1039, C1060, C903	CKSRYB104K25
	C906, C908, C910, C914, C915	CKSRYB104K25
	C919, C923, C928, C933	CKSRYB104K25
	C972, C973	CKSRYB104K25
	C1011, C1025, C1030, C1045	CKSRYB104K50
	C1047, C1048, C1053, C1054, C935	CKSRYB104K50
	C937, C941, C945, C948, C951	CKSRYB104K50
	C959, C960, C962, C968, C977	CKSRYB104K50
	C981, C989, C995, C998	CKSRYB104K50
	C1017, C1020	CKSRYB222K50
	C1016, C1021	CKSRYB392K50
	C1077–C1080	CKSRYB473K50
	C1014, C1023	CKSRYB682K50
	C916, C926, C931, C957	CKSRYB821K50
	C1001, C1002, C952, C953	CQMA103J50
	C955, C956, C984, C985	CQMA103J50
	C1058, C966	CQMA272J50
	C1009, C1055, C967, C987	CQMA392J50
	C1010, C1027	CQMA472J50
	C1000, C982, C983, C999	CQMA682J50

Mark No.	Description	Part No.
	C920, C922, C929, C932	DCH1255
RESISTORS		
	R1058, R1059, R1087, R1088	RD1/2VM101J
	R979, R986, R993, R998	RD1/2VM181J
	R1053, R1057, R1082, R1143	RN1/16SC68R0D
	R1040, R1041, R1046, R1047, R1070	RN1/16SE1002D
	R1072, R1078, R1079, R976, R983	RN1/16SE1002D
	R992, R997	RN1/16SE1002D
	R981, R988, R995, R999	RN1/16SE1101D
	R919, R923, R928, R932, R935	RN1/16SE1102D
	R938, R944, R948	RN1/16SE1102D
	R1109, R1110	RN1/16SE2200D
	R1038, R1042, R1043, R1045, R1048	RN1/16SE2202D
	R1068, R1071, R1073, R1075, R1077	RN1/16SE2202D
	R1044, R1049, R1074, R1076, R1104	RN1/16SE2700D
	R1114	RN1/16SE2700D
	R1107, R1112	RN1/16SE3300D
	R1039, R1069, R1125, R1127	RN1/16SE3602D
	R1002, R1003, R977, R978	RN1/16SE3901D
	R984, R985, R990, R991	RN1/16SE3901D
	R1000, R982, R989, R996	RN1/16SE4701D
	R1021, R1022, R918, R920–R922	RN1/16SE5601D
	R927, R929, R934, R936, R937	RN1/16SE5601D
	R939, R943, R945–R947	RN1/16SE5601D
	R1001, R980, R987, R994	RN1/16SE9101D
	Other Resistors	RS1/16S###J
OTHERS		
	CN902 7P FFC CONNECTOR	52045-0745
	CN903 5P TOP POST	B5B-EH-Y
	CN904 6P TOP POST	B6B-EH
	JA901, JA902 CANON CONNECTOR	DKB1077
	JA907 HEADPHONE JACK	DKB1078
	JA903, JA904 HEADPHONE JACK	DKN1249
	JA905, JA906 HEADPHONE JACK	DKN1452
	JA908 HEADPHONE JACK	DKN1452
	ROTARY SW STAY	DNH2646
	CN901 25P FFC CONNECTOR	VKN1429
	KN901, KN902 WRAPPING TERMINAL	VNF1084
K DIGIC ASSY SEMICONDUCTORS		
	IC1203, IC1209, IC1215, IC1218	AD1895AYRS
	IC1202, IC1208, IC1214, IC1217	AK4117VF
	IC1219	TC7S04FU
	IC1221, IC1223, IC1225	TC7SH08FUS1
	IC1201, IC1207, IC1213, IC1216	TC7WU04FU
	Q1201	DTC124EUA
	D1206, D1207	1SS355
	D1205	NNCD6.2MF
SWITCHES AND RELAYS		
	S1201	VSH1025
CAPACITORS		
	C1204, C1222, C1240, C1255	CCSRCH220J50

Mark No. Description**Part No.**

C1202, C1220, C1238, C1253
C1206, C1224, C1242, C1257
C1210, C1211, C1216, C1218
C1228, C1229, C1234, C1236

CCSRCH221J50
CCSRCH470J50
CEJQ100M50
CEJQ100M50

C1246, C1247, C1249, C1251
C1261, C1262, C1264, C1266
C1269, C1270
C1203, C1221, C1239, C1254, C1267
C1271–C1278

CEJQ100M50
CEJQ100M50
CEJQ100M50
CKSRYB103K50
CKSRYB103K50

C1205, C1208, C1209, C1215, C1217
C1223, C1226, C1227, C1233, C1235
C1241, C1244, C1245, C1248, C1250
C1256, C1259, C1260, C1263, C1265
C1268, C1282, C1286, C1290–C1294

CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25
CKSRYB104K25

C1213
C1201, C1219, C1237, C1252

CKSRYB104K50
CQMA221J50

RESISTORS

R1239, R1240
R1204, R1213, R1222, R1231
R1263–R1265
Other Resistors

RD1/2VM221J
RD1/2VM820J
RS1/10S0R0J
RS1/16S###J

OTHERS

CN1204 6P FFC CONNECTOR
CN1201 7P FFC CONNECTOR
CN1203 12P FFC CONNECTOR
CN1202 24P FFC CONNECTOR
JA1201 DIN CONNECTOR 5P

52044-0645
52045-0745
52045-1245
52045-2445
DKN1188

CN1205 31P FFC CONNECTOR
SHIELD CASE (MIDI)
KN1203 SCREW PLATE
KN1201 WRAPPING TERMINAL
KN1202 WRAPPING TERMINAL

DKN1451
DNH2736
VNE1948
VNF1084
VNF1084

L DIGIA ASSY**OTHERS**

CN1401 FFC BOTTOM CONNECTOR 7P
JA1401, JA1402 2P PIN JACK

52492-0720
DKB1079

M DIGIB ASSY**SEMICONDUCTORS**

IC1307
IC1308
IC1303
IC1312
IC1309–IC1311, IC1313

AD1895AYRS
AK4114VQ
TC74HCU04AF
TC7SET08FUS1
TC7SH08FUS1

COILS AND FILTERS

F1301–F1304
L1304
F1305, F1306

DTF1069
PTL1003
VTF1091

CAPACITORS

C1330, C1332, C1334, C1347
C1314
C1318
C1311, C1312

CEAT100M50
CEAT101M16
CEAT470M16
CKSRYB103K50

Mark No. Description**Part No.**

C1313, C1329, C1331, C1333, C1335

C1340, C1342, C1344–C1346, C1348
C1350
C1304

CKSRYB104K25

CKSRYB104K25
CKSRYB104K25
CKSRYB474K10

RESISTORS

R1301
Other Resistors

RN1/16SE1802D
RS1/16S###J

OTHERS

CN1301 24P FFC CONNECTOR
CN1302 10P FF CONNECTOR
JA1303 1P JACK BOARD
KN1301 WRAPPING TERMINAL
KN1302 WRAPPING TERMINAL

52045-2445
DKN1454
PKB1033
VNF1084
VNF1084

N SLSW ASSY**SWITCHES AND RELAYS**

S2401–S2404

VSH1025

CAPACITORS

C2401–C2404

CKSRYB103K50

RESISTORS

Other Resistors

RS1/16S###J

OTHERS

CN2401 6P FFC CONNECTOR

52044-0645

O HPAMP ASSY**SEMICONDUCTORS**

⚠ IC2505, IC2506
⚠ IC2504
IC2503
IC2502
IC2501

DEK1086
DEK1094
NJM2068M
NJM4558MD
PCM1742KE

IC2507
Q2503, Q2504
Q2509
Q2505, Q2507
D2501–D2504, D2506–D2512

TA78L12F
2SB1238X
2SC2412K
2SD1859X
1SS355

D2513

UDZS3R3(B)

SWITCHES AND RELAYS

RY2501

VSR1008

CAPACITORS

C2510, C2515
C2540, C2541
C2501, C2514
C2519–C2522, C2526, C2534, C2535
C2531, C2533, C2536, C2537

CCSRCH220J50
CCSRCH471J50
CCSRCH820J50
CEAT100M50
CEAT101M25

C2524, C2528, C2542
C2518, C2523

CEAT221M25
CEAT2R2M50

Mark No.	Description	Part No.
C2532		CEAT470M25
C2502–C2505, C2508, C2538, C2539		CKSRYB104K25
C2506, C2507, C2509		CKSRYB104K50
RESISTORS		
R2501, R2513, R2515, R2532		RD1/2VM122J
R2518, R2523		RD1/2VM221J
R2504, R2524		RN1/16SE1001D
R2509, R2528		RN1/16SE1802D
R2516, R2519, R2533, R2535		RS2LMF270J
Other Resistors		RS1/16S###J
OTHERS		
CN2501 KR CONNECTOR		B4B-PH-K
CN2502 5P TOP POST		B5B-EH
CN2503 16P FFC CONNECTOR		DKN1453
P HPJACK ASSY		
COILS AND FILTERS		
F802–F804		VTF1093
CAPACITORS		
C809, C810		CKSRYB104K25
RESISTORS		
Other Resistors		RS1/16S###J
OTHERS		
CN9 KR CONNECTOR		B4B-PH-K
JA10 HEADPHONE JACK		DKN1281
R ACSW ASSY		
SWITCHES AND RELAYS		
⚠ S1		DSA1031
CAPACITORS		
⚠ C1		ACG7030
OTHERS		
⚠ CN91 AMP U-P CONNECTOR 2P		2-178496-4
⚠ J0 CONNECTOR ASSY		DKP3768

6. ADJUSTMENT

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

7. GENARAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TEST MODE

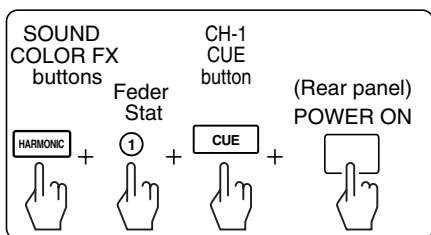
1. Description of Test Modes

The following eight test modes are provided for this unit:

- ① **mode 1** : For confirmation of the software version
- ② **mode 2** : All LEDs and FL display "OFF" MODE. "ALL CLR"
- ③ **mode 3** : All LEDs and FL display "ON" MODE. "ALL SET"
- ④ **mode 4** : KEY operating TEST. (KEY TEST)
- ⑤ **mode 5** : SELECT SW Operating Test. (SW TEST)
- ⑥ **mode 6** : Volume Test 1. (VOLTEST1)
- ⑦ **mode 7** : Volume Test 2. (VOLTEST2)
- ⑧ **mode 8** : Volume Test 3. (VOLTEST 3)
- ⑨ **mode 9** : Volume Test 4. (VOLTEST 4)
- ⑩ **mode 8** : Fader Test . (FDRTEST)
- ⑪ **mode 9** : Meter LED Test . (METERTEST)

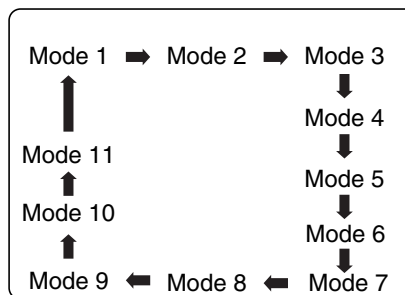
2. Test Mode

Test mode : ON

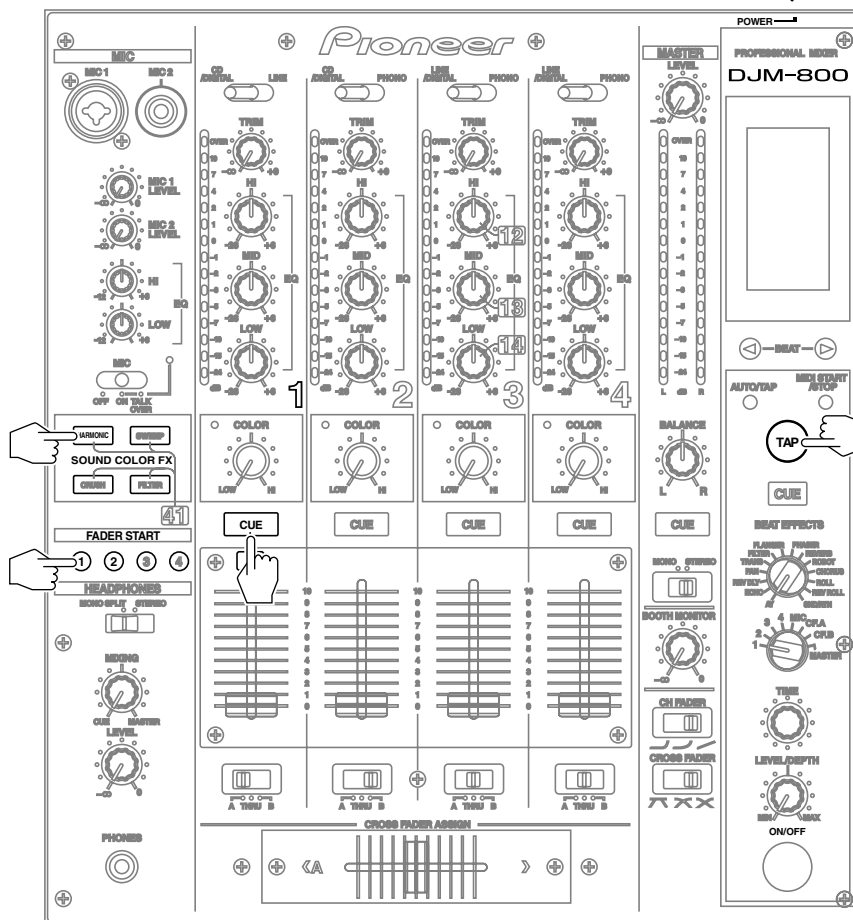
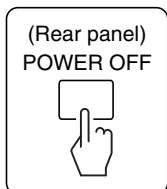


Test mode (Mode 1)

Cyclic operation



Test mode : CANCEL



How to start the Test Mode.

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

There are 11 modes in this Test Mode.

If the TAP button is pressed, Mode1 ~ 11 can be selected by selector switch.

When set up mode is started, Mode 1 is selected automatically.

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

Test mode Contents.

① Mode 1 : Confirmation of software version.

Mode that confirms version of microcomputer, DSP (program), DSP (data), and FPGA.

It is displayed a version of firmware by FL display.

For example
Microcomputer : 1.000
DSP (program) : 1.000
DSP (data) : 005
FPGA : 1.0



M 1.000
D 1.000

005
F 1.0

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

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

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

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

④ Mode 4 : KEY OPERATING TEST. "KEY TEST"

- While the self-illumination buttons are being pressed, LEDs lights.
- The abbreviated name of selected key is displayed on the FL display.

LED TABLE

Buttons	Lighting LED	FL Display	Remark
HARMONIC	HARMONIC LED	MIX_A	
SWEEP	SWEEP LED	MIX_B	
CRUSH	CRUSH LED	MIX_C	
FILTER	FILTER LED	MIX_D	
FADER START CH1	FADER START CH1 LED	FS_CH1	
FADER START CH2	FADER START CH2 LED	FS_CH2	
FADER START CH3	FADER START CH3 LED	FS_CH3	
FADER START CH4	FADER START CH4 LED	FS_CH4	
CUE CH1	CUE CH1 LED	CUE_CH1	
CUE CH2	CUE CH2 LED	CUE_CH2	
CUE CH3	CUE CH3 LED	CUE_CH3	
CUE CH4	CUE CH4 LED	CUE_CH4	
CUE MASTER	CUE MASTER LED	CUE_MAS	
CUE EFFECT	CUE EFFECT LED	CUE_EFF	
BEAT DOWN(◀)	COLOR CH1 LED	B_DOWN	Red and green LED light at the same time.
BEAT UP (▶)	COLOR CH2 LED	B_UP	
AUTO/TAP	COLOR CH3 LED	AUTO	
MIDI START/STOP	COLOR CH4 LED	MIDI	
EFFECT ON/OFF	EFFECT ON/OFF LED	EFCT_ON	

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

- The selected SW can be confirmed by LEDs lights.

Swich	Lighting LED	Remark
CD/DIGITAL SELECT SW CH1	COLOR CH1 LED	"CD" is selected : Lights Red "DIGITAL" is selected : Lights Green
CD/DIGITAL SELECT SW CH2	COLOR CH2 LED	"CD" is selected : Lights Red "DIGITAL" is selected : Lights Green
LINE/DIGITAL SELECT SW CH3	COLOR CH3 LED	"LINE" is selected : Lights Red "DIGITAL" is selected : Lights Green
LINE/DIGITAL SELECT SW CH4	COLOR CH4 LED	"LINE" is selected : Lights Red "DIGITAL" is selected : Lights Green
MIC	: OFF	-
	: ON	MIC LED
	: TALK OVER	MIC LED & CH1 Level Meter -24dB LED
Headphone MONO/STEREO	: MONO SPLIT	CH2 Level Meter LED
	: STEREO	
		-24dB
		-15dB

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

Switch		Lighting LED		Remark
CH FADER Assign CH1	: Assign A	CH1 Level Meter LED	7dB	
	: THRU		10dB	
	: Assign B		OVER	
CH FADER Assign CH2	: Assign A	CH2 Level Meter LED	7dB	
	: THRU		10dB	
	: Assign B		OVER	
CH FADER Assign CH3	: Assign A	CH3 Level Meter LED	7dB	
	: THRU		10dB	
	: Assign B		OVER	
CH FADER Assign CH4	: Assign A	CH4 Level Meter LED	7dB	
	: THRU		10dB	
	: Assign B		OVER	
CD/DIGITAL LINE	: CD DIGITAL	-		
Select SW CH1	: LINE	CH1 Level Meter LED	0dB	
CD/DIGITAL PHONO	: CD DIGITAL	-		
Select SW CH2	: PHONO	CH2 Level Meter LED	0dB	
LINE/DIGITAL PHONO	: CD DIGITAL	-		
Select SW CH3	: PHONO	CH3 Level Meter LED	0dB	
LINE/DIGITAL PHONO	: CD DIGITAL	-		
Select SW CH4	: PHONO	CH4 Level Meter LED	0dB	
CH FADER CURVE select SW	: Left	CH4 Level Meter LED	-24dB	
	: Center		-15dB	
	: Right		-10dB	
CROSS FADER CURVE select SW	: Left	CH3 Level Meter LED	-24dB	
	: Center		-15dB	
	: Right		-10dB	
Effect Select SW	: DELAY	Master Level Meter R CH LED	-24dB	
	: ECHO		-15dB	
	: REV DLY		-10dB	
	: PAN		-7dB	
	: TRANS		-5dB	
	: FILTER		-3dB	
	: FLANGER		-2dB	
	: PHASER		-1dB	
	: REVERB		0dB	
	: ROBOT		1dB	
	: CHORUS		2dB	
	: ROLL		4dB	
	: REV ROLL		7dB	
	: SND/RTN		10dB	
CH Select SW	1	Master Level Meter L CH LED	-24dB	
	2		-15dB	
	3		-10dB	
	4		-7dB	
	MIC		-5dB	
	CF.A		-3dB	
	CF.B		-2dB	
	MASTER		-1dB	
MONO STEREO Select SW		Master Level Meter L CH LED	10dB	MONO : Lights off STEREO : Lights
MIC SIGNAL Select sw		Master Level Meter L CH LED	OVER	ADD : Lights off CUT : Lights

A ⑤ Mode 5 :SELECT SW Operating Test. " SW TEST "

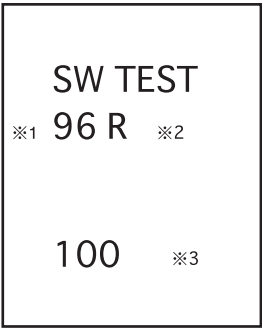
• The status is displayed on the FL Display about the following.

B

Swich	Position of FL Display	FL Display
Digital Out Sampling Rate Select SW	※1	"48k" is selected : Display "48". "96k" is selected : Display "96".
RETURN IN	※2	When the cable is connected up to L side terminal, it displays as "R".
TIME Encoder	※3	• Default "0" • Upper limit "100" • Lower limit "-100"

C

Example



- ※1. Example of selecting 96k
- ※3. Example of selecting Upper Limit

D

E

F

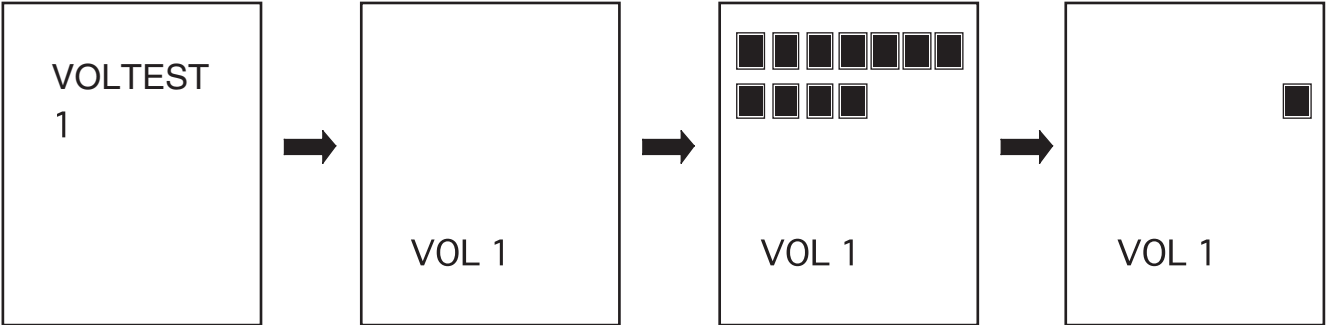
⑥ Mode 6 : Volume Test 1. " VOLTEST1 "

- This mode displays a value of volume as shown below on a Level Meter.
- HI of MIC,HI of CH1,CH2,CH3,CH4
- MASTER LEVEL

Volume	Lighting LED	Remark
MIC HI	Master Level Meter L CH LED	"-12" : Lights off "+6" : Full Illuminate
CH1 HI	CH1 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH2 HI	CH2 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH3 HI	CH3 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH4 HI	CH4 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
MASTER LEVEL	Master Level Meter R CH LED	"-∞ " : Lights off "0" : Full Illuminate

- This mode displays a value of CH1 TRIM volume in the FL Display.
I will turn on from upper left according to value of TRIM in turn, and only lower berth rightmost edge of effect name display lights it that I finish turning it.

It displays "VOLTEST1" on the FL display in the first 2 seconds.
Then it displays "VOL 1" on the bottom of ths FL Display. (in order to let you display TRIM value)



A

⑦ Mode 7 :Volume Test 2. " VOLTEST2 "

- This mode displays a value of volume as shown below on a Level Meter.

- LOW of MIC,MID of CH1,CH2,CH3,CH4
- MASTER BARANCE

B

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

C

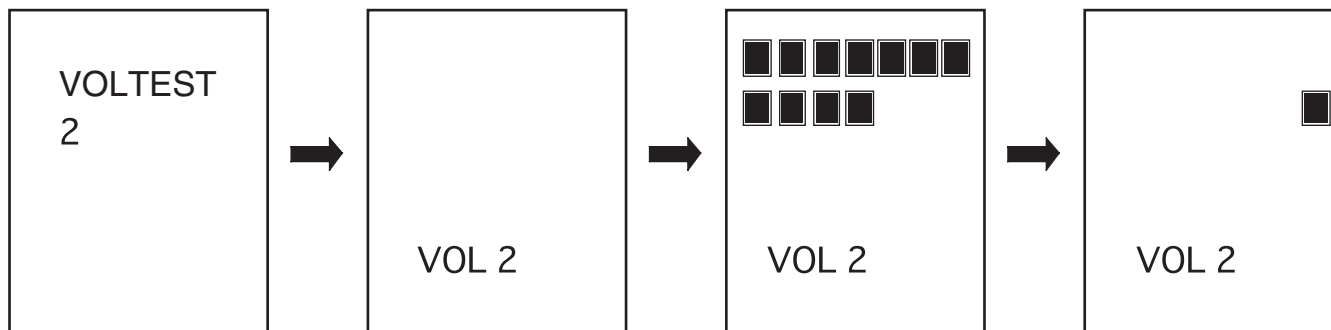
- This mode displays a value of CH 2 TRIM volume in the FL Display.

I will turn on from upper left according to value of TRIM in turn, and only lower berth rightmost edge of effect name display lights it that I finish turning it.

It displays "VOLTEST2" on the FL display in the first 2 seconds.

Then it displays "VOL 2" on the bottom of ths FL Display. (in order to let you display TRIM value)

D



E

F

⑧ **Mode 8 : Volume Test 3. " VOLTEST "**

- This mode displays a value of volume as shown below on a Level Meter.
 - H.P. MIXING,LOW of CH1,CH2,CH3,CH4
 - BOOTH MONITOR

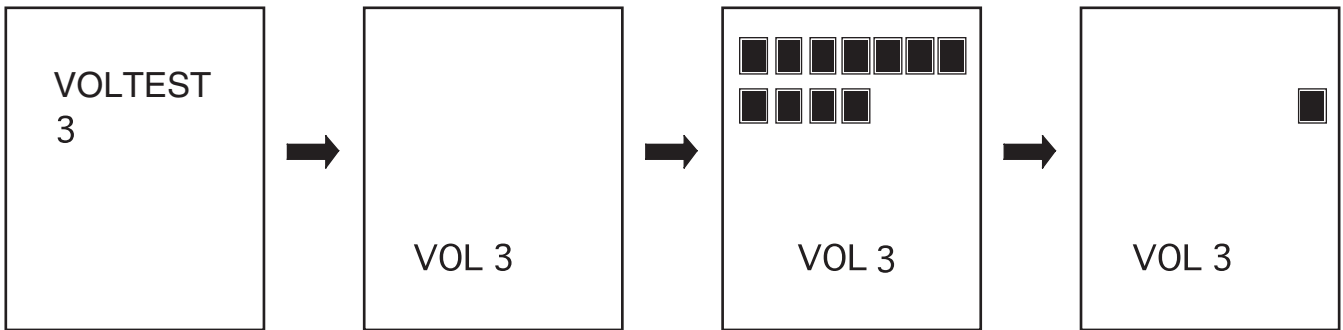
Volume	Lighting LED	Remark
H.P. MIXING	Master Level Meter L CH LED	"CUE" : Lights off "MASTER" : Full Illuminate
CH1 LOW	CH1 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH2 LOW	CH2 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH3 LOW	CH3 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH4 LOW	CH4 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
BOOTH MONITOR	Master Level Meter R CH LED	"-∞ " : Lights off "0" : Full Illuminate

- This mode displays a value of CH3 TRIM volume in the FL Display.

I will turn on from upper left according to value of TRIM in turn, and only lower berth rightmost edge of effect name display lights it that I finish turning it.

It displays "VOLTEST3" on the FL display in the first 2 seconds.

Then it displays "VOL 3" on the bottom of ths FL Display.(in order to let you display TRIM value)



⑨ Mode 9 : Volume Test 4. " VOLTEST "

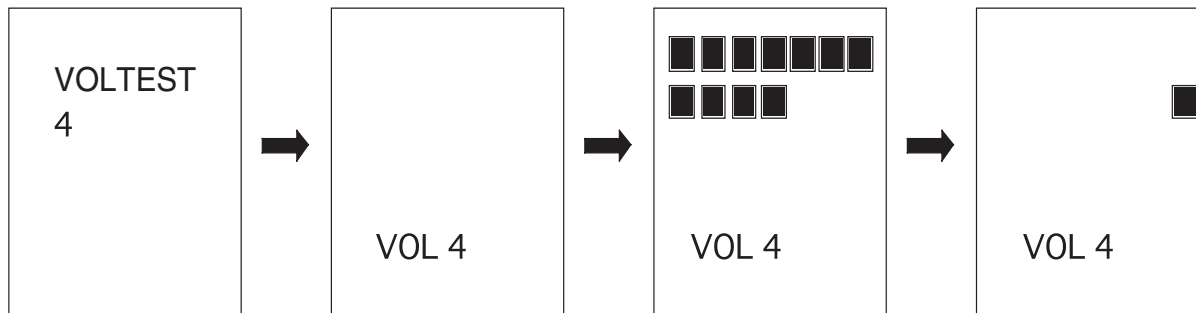
- This mode displays a value of volume as shown below on a Level Meter.
 - H.P. LEVEL, COLOR of CH1, CH2, CH3, CH4
 - LEVEL/DEPTH

Volume	Lighting LED	Remark
H.P. LEVEL	Master Level Meter L CH LED	"-• " : Lights off "0" : Full Illuminate
CH1 COLOR	CH1 Level Meter LED	"LOW" : Lights off "HI" : Full Illuminate
CH2 COLOR	CH2 Level Meter LED	"LOW" : Lights off "HI" : Full Illuminate
CH3 COLOR	CH3 Level Meter LED	"LOW" : Lights off "HI" : Full Illuminate
CH4 COLOR	CH4 Level Meter LED	"LOW" : Lights off "HI" : Full Illuminate
LEVEL/DEPTH	Master Level Meter R CH LED	"MIN" : Lights off "MAX" : Full Illuminate

- This mode displays a value of CH4 TRIM volume in the FL Display.
I will turn on from upper left according to value of TRIM in turn, and only lower berth rightmost edge of effect name display lights it that I finish turning it.

It displays "VOLTEST4" on the FL display in the first 2 seconds.

Then it displays "VOL 4" on the bottom of this FL Display. (in order to let you display TRIM value)



⑩ Mode 10 : Fader Test. " FDRTEST "

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

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

⑪ Mode 11 : Meter LED Test. " METERTEST "

- Mode that confirms a value of each CH Fader and Cross Fader.
- LED of each CH of Level Meter lights from the bottom one by one when the CUE key is pressed.
The default all Lights off.
It is possible to return to all Lights off when pressing it 15 times again after it presses it (LED on lights most) and to repeat from the beginning.

7.1.2 REWRITING THE FIRMWARE

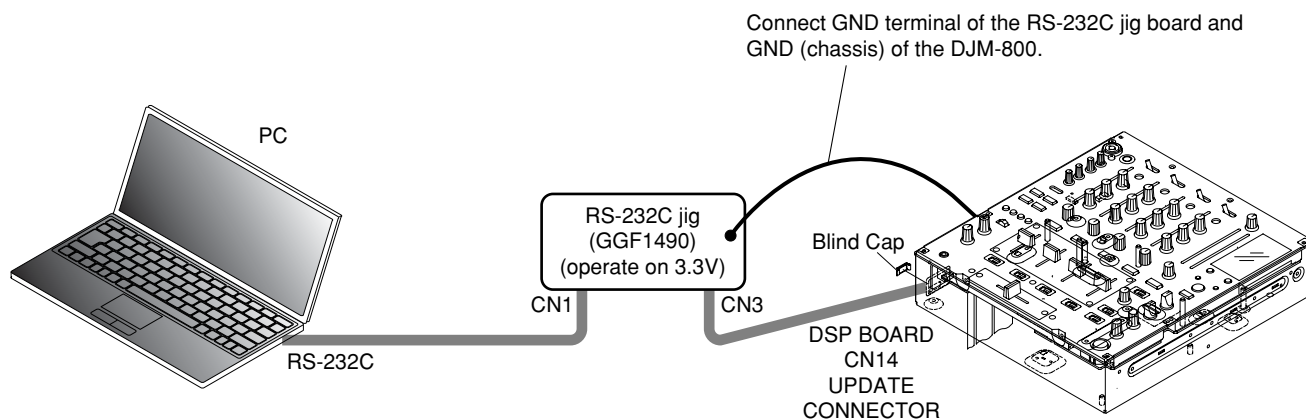
Items required

- DJM-800 (This model)
- PC (Windows 98, XP, 2000)
- RS-232C jig (GGF1490)
- Flash Development Tool Kit (ver. 3.3)
- Program Flash File

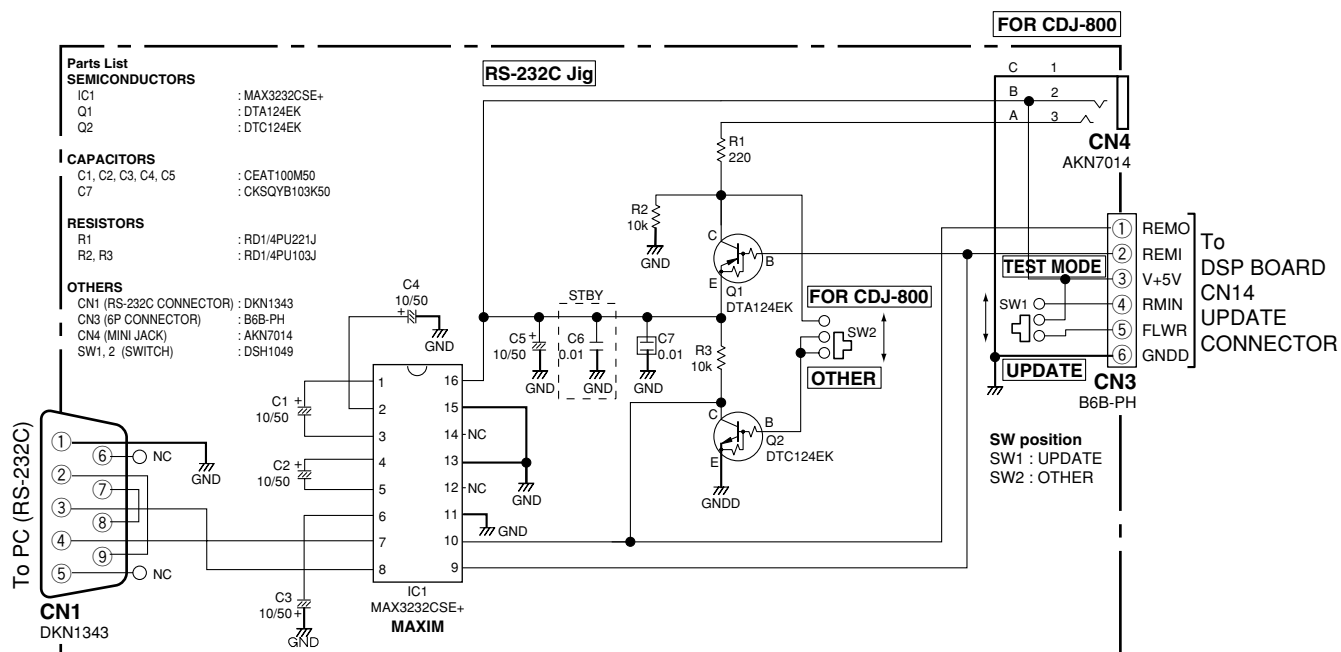
About these softwares (Flash Development Tool kit and Program Flash Files)

To obtain these software, contact your nearest Pioneer service center.

Connections



RS-232C jig (GGF1490) Schematic diagram



DJM-800

■ Order of updating

A

1. Update of the DSP program (if required)
2. Update of DSP data (if required)
3. Update of the microcomputer software

Note: Be sure to update the microcomputer software after updating of the DSP program and /or DSP data is performed.

■ How to update the microcomputer software

1. For the method for updating the microcomputer software, see "How to use the Flash Development Toolkit." (The updating method is the same as with the EFX-1000.)

B

Use "djm800_xxxx.mot" as the update file.

Note: If the Flash Development Toolkit is not installed on your PC, see "How to install the Flash Development Toolkit."

■ How to update the DSP program and DSP data

How to update the DSP program

1. Update the DSP program of the DJM-800, using the "dsp_upp_xxxx.mot" update file, in the same way as with the microcomputer software.
2. After disconnecting the special tool from the DJM-800, turn the DJM-800 on.
3. Once data transmission to and writing on the DSP FLASH starts, wait until the message "UPDATE END" is displayed on the FL display. The LED for the TAP button is unlit while the DJM-800 is starting up, flashes while the DSP program is being updated, then lit after the updating is finished.
4. Updating of the DSP program is completed when "UPDATE END" is displayed on the FL display or the LED for the TAP button lights up.
5. If updating of DSP data is required, go to "How to update DSP data." If it is not required, update the microcomputer software, using the "djm800_xxxx.mot" update file.

How to update DSP data

1. Update DSP data of the DJM-800, using the "dsp_upd_xxxx.mot" update file, in the same way as with the microcomputer software.
2. After disconnecting the special tool from the DJM-800, turn the DJM-800 on.
3. Once data transmission to and writing on the DSP FLASH starts, wait until the message "UPDATE END" is displayed on the FL display. The LED for the TAP button is unlit while the DJM-800 is starting up, flashes while DSP data are being updated, then lit after the updating is finished.
4. Updating of DSP data is completed when "UPDATE END" is displayed on the FL display or the LED for the TAP button lights up.
5. Be sure to update the microcomputer software, using the "djm800_xxxx.mot" update file.

Installing Flash Development Toolkit

1. Installation

1.1 Installation



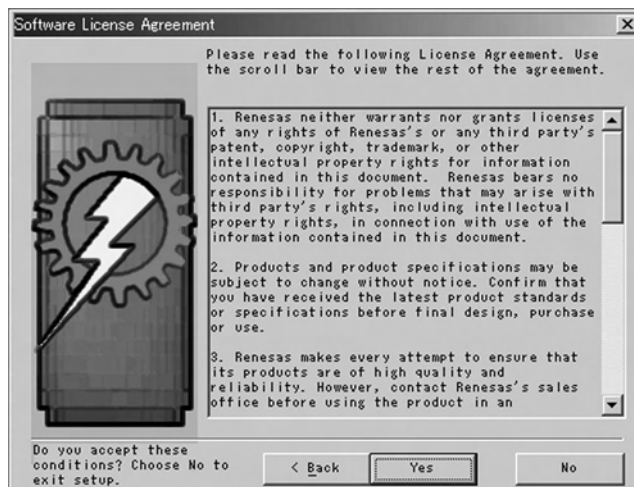
Double-click on the fdt3_3.exe file icon. The window shown below will open.
Click on Next.



Select International (English), then click on Next.



Read the Software License Agreement, and if you accept the conditions, click on Yes.



Leave the check boxes as they are and click on Next.

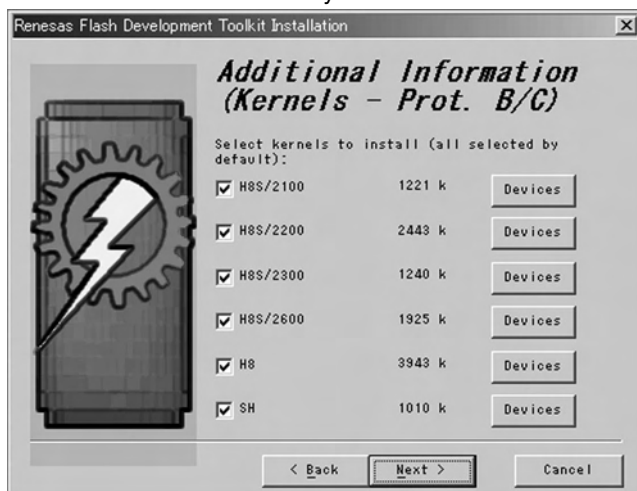


Leave the check boxes as they are and click on Next.



Leave the check boxes as they are and click on Next.

A



B

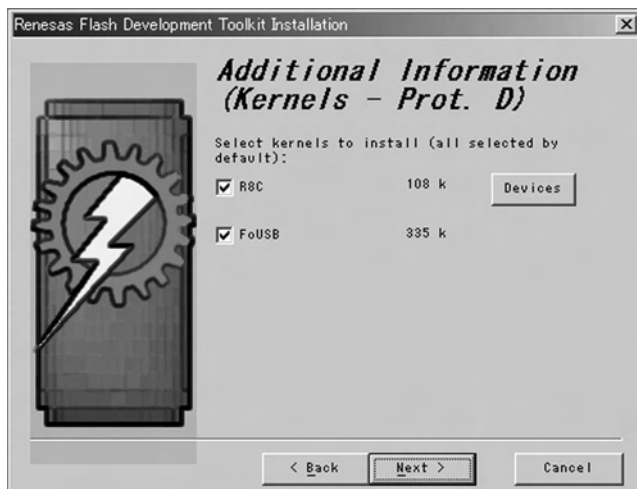
The location where Flash Development Tool Kit 3.3 is to be installed will be displayed.



With the default setting, the program will be installed under Program Files on Drive C. You may change the location. If you do not wish to change the location, skip to Step 1.3.

Leave the check boxes as they are and click on Next.

C



D

E

F

1.2 Changing the location for installation

Click on Browse...

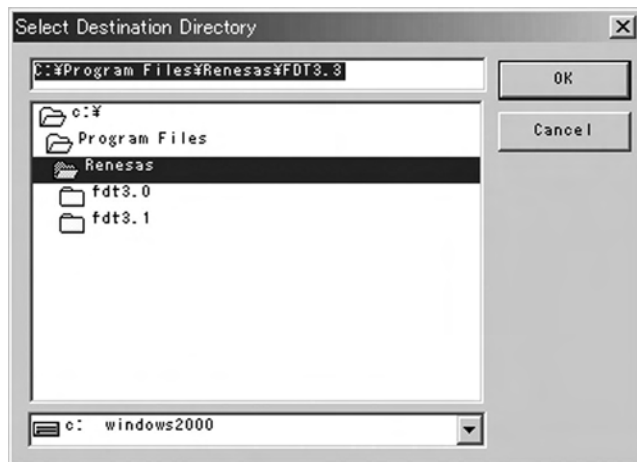


Method ①

You can directly enter the location for installation in the box enclosed in the frame in the illustration below:

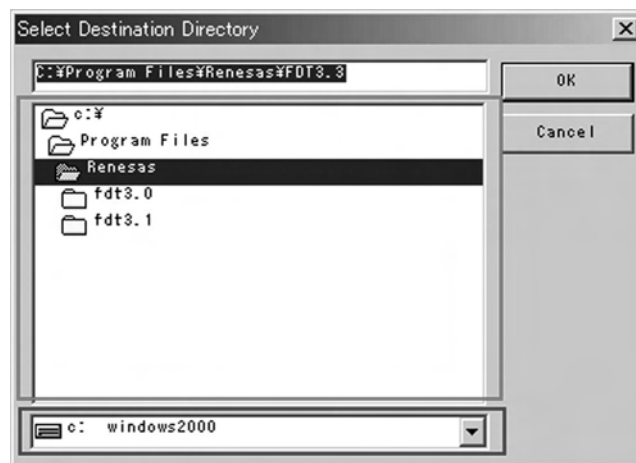


The window shown below will open.



Method ②

You can select the drive in the box enclosed in the lower frame and the folder in the box enclosed in the upper frame in the illustration below:



After designating the location for installation, click on OK. Then the Select Destination Directory window will close.

1.3 The location where the backup directory will be created is displayed.

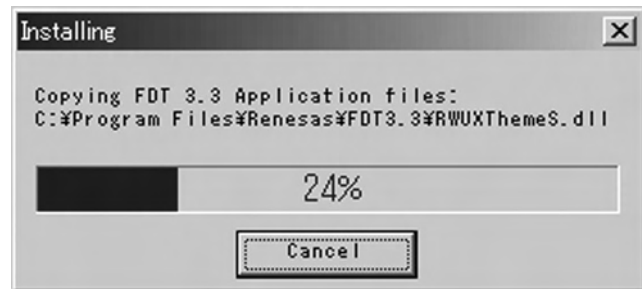
If you wish to change the location, you can change it in the same manner as in Step 1.2. Normally, leave the location setting as it is and click on Next.



Click on Install. Installation starts.

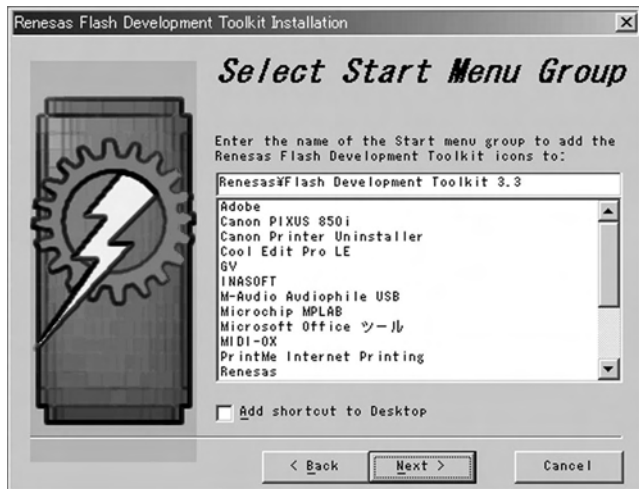


During installation, the display shown below indicates the progress of installation.



1.4 You can register the program on the Start menu.

Normally, leave the setting as it is and click on Next.



When installation is completed, the message shown below will be displayed. Click on Finish. Installation is completed.



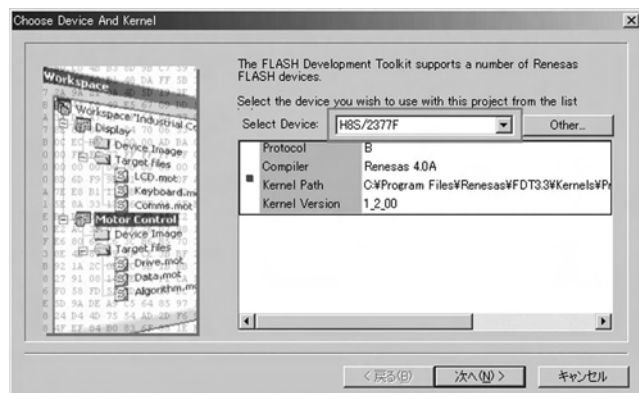
2. Initial settings

Click on Start, and select Program, Renesas, Flash Development Tool Kit 3.3, then Flash Development Tool Kit 3.3 Basic. The program will start up, and the window shown below will open.



2.1 Selection of the device and kernel

Select H8S/2377F in the Select Device: box then click on Next.



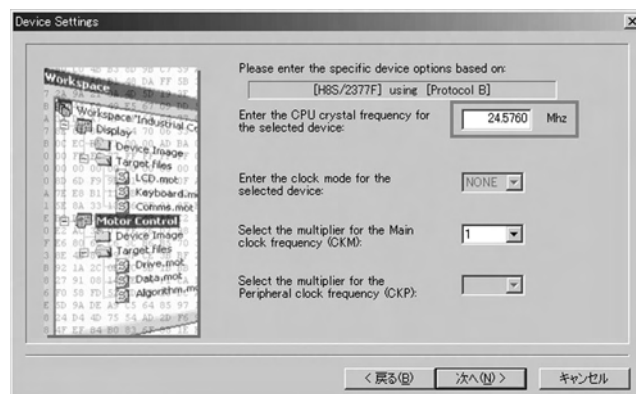
2.2 Selection of the port

Select the port to be used in the Select port: box then click on Next.



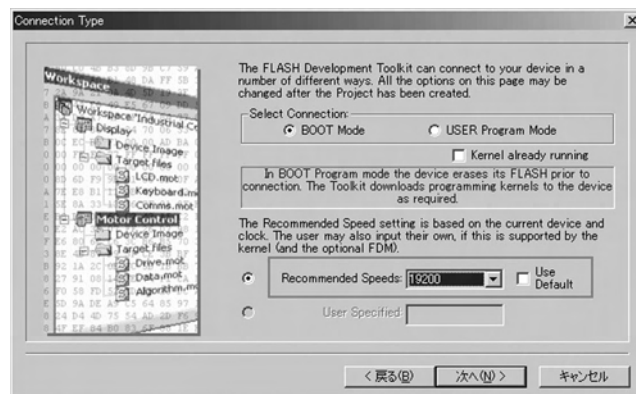
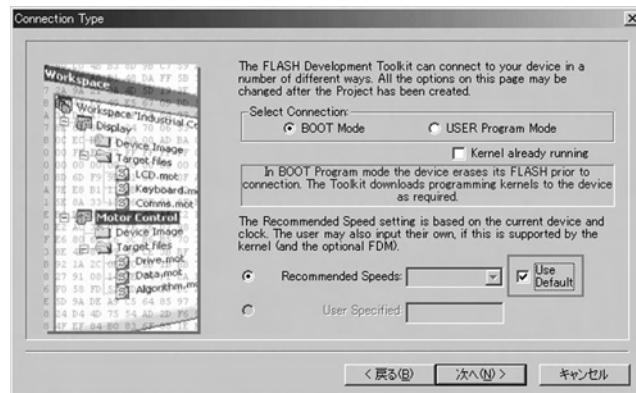
2.3 Device setting

Enter 24.5760 in the Enter the CPU crystal frequency for the selected device: box. Leave other settings as they are. Click on Next.



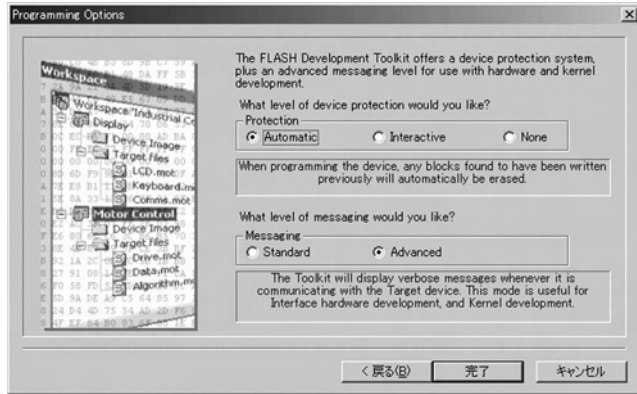
2.4 Connection type

Click on the Use Default check box to remove the check mark for this option. Select 19200 in the Recommended Speeds: box.



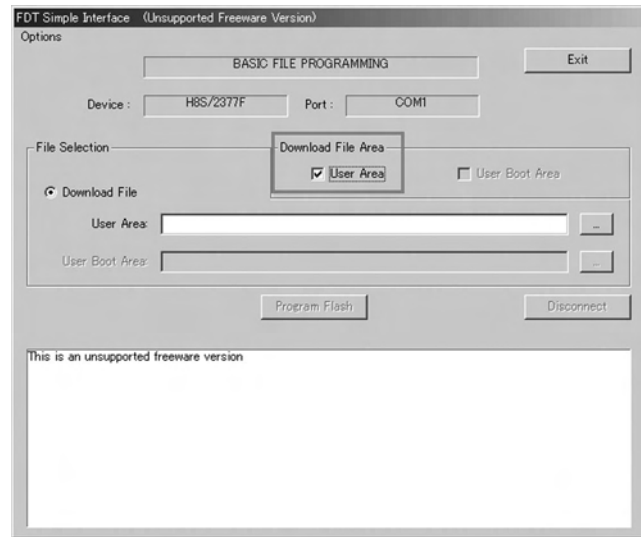
2.5 Registering the initial settings

Click on Finish to register the initial settings.

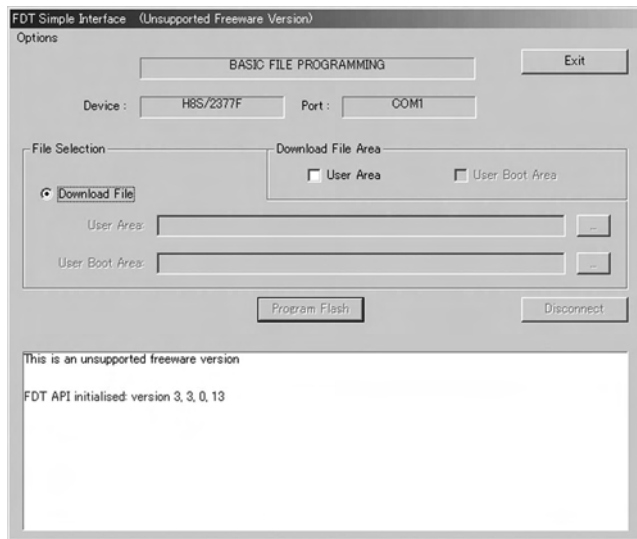


3. How to use

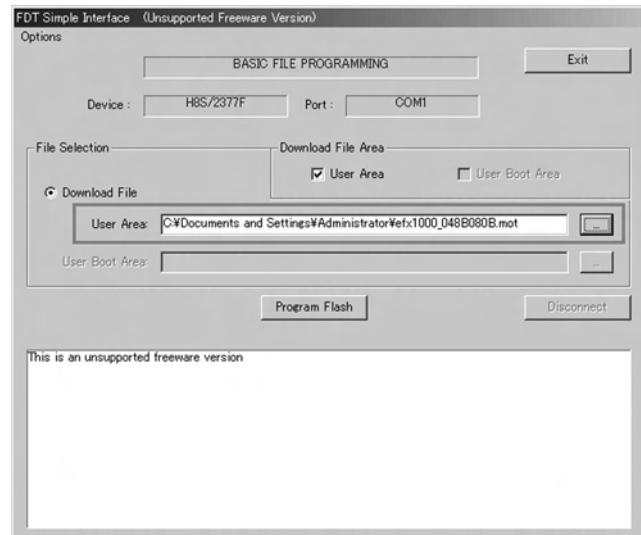
Click on the User Area check box in Download File Area to place a check mark in the check box.



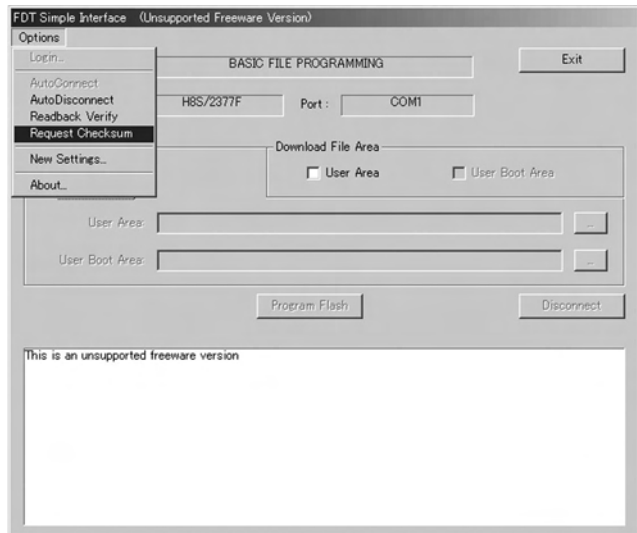
The program starts.



Designate the file in the User Area: box in File Selection.

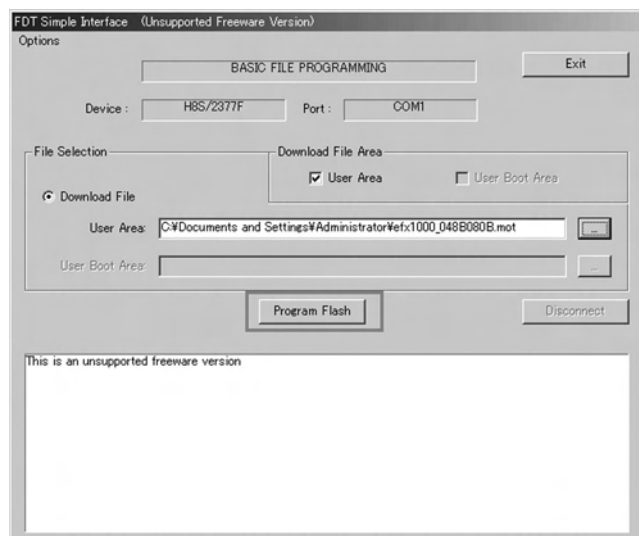


Click on Options then click to place a check mark in the Request Checksum check box.

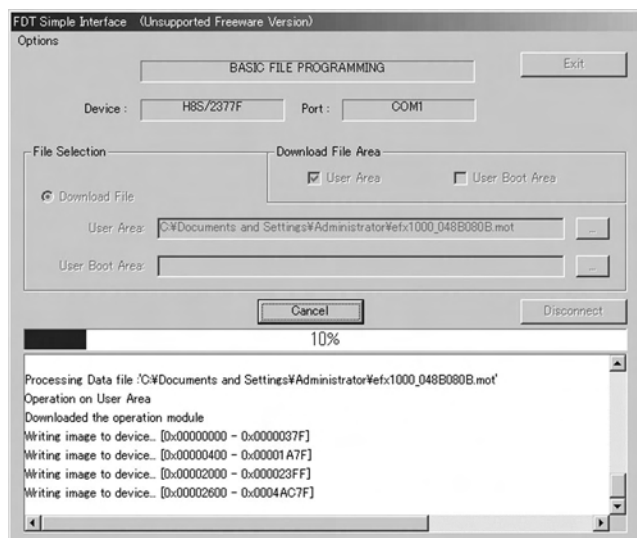


Now installation and registration of the initial settings have been completed.

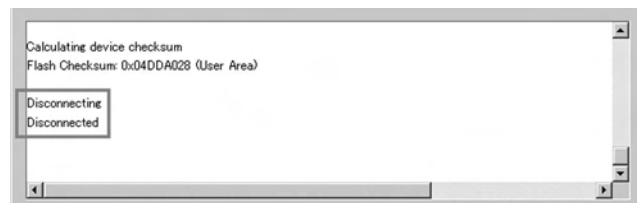
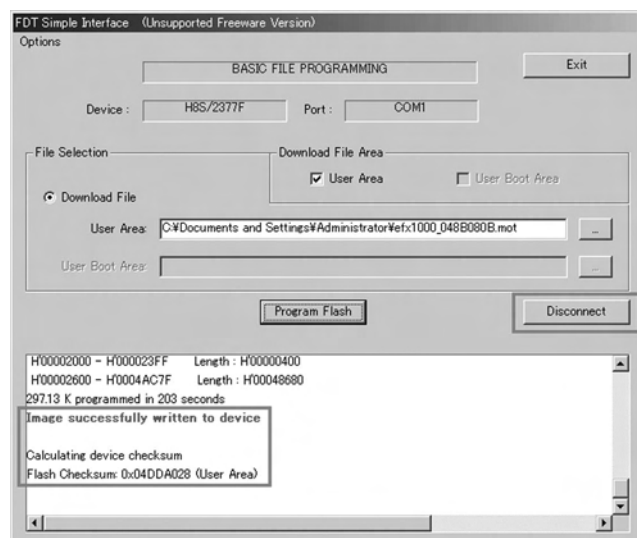
Click on Program Flash.



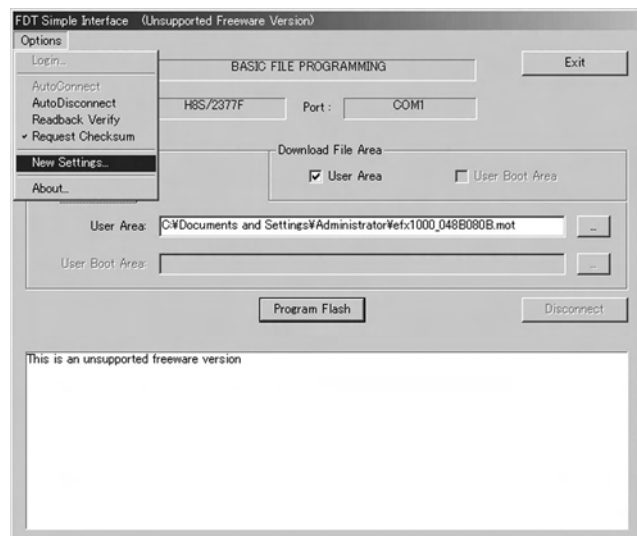
Downloading will start.



When downloading is finished, click on Disconnect. After confirming that "Disconnected" is displayed in the window, turn off the DJM-800(efx1000).



If you wish to change the device or port settings, select Options then New Settings. Change settings, referring to "2. Initial settings."



Instruction Manual for Flash Development Tool Kit

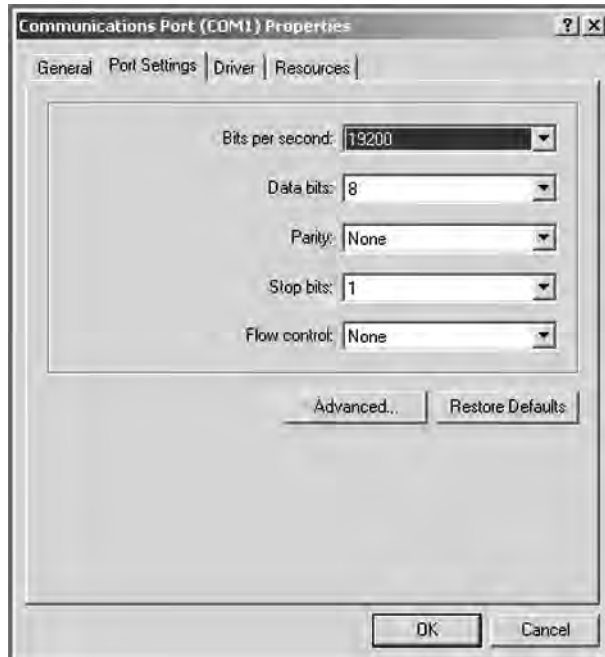
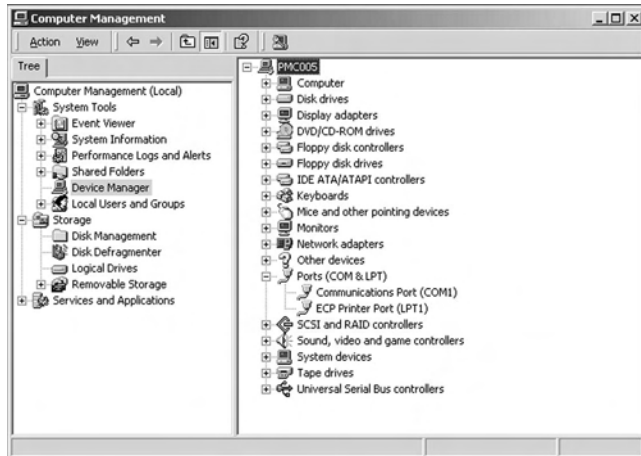
Preparation: Connect the DJM-800(efx1000) and your PC, using the RS-232C jig.

Note: After the above connection is made, when the DJM-800 is turned on, it will enter Writing mode. In Writing mode, all the LEDs remain unlit. However, when the DJM-800(efx1000) is turned on or off, it clicks.

• How to confirm the port to be used on your PC

Double-click on System in Control Panel, or right-click on My Computer and select System Properties. Click on the Hardware tab and select Device Manager. You can confirm the port at Port (COM and LPT).

Click on the Port Setting tab and select 19200 in the bps box.



Set the baud rate of the port to be used to 19200.

Example: COM1

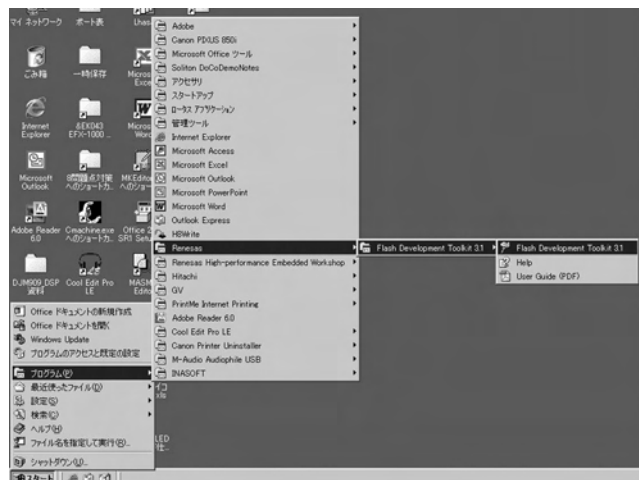
Double-click on the port name to be used.



Click on OK. The setting is completed.

1. Starting the program

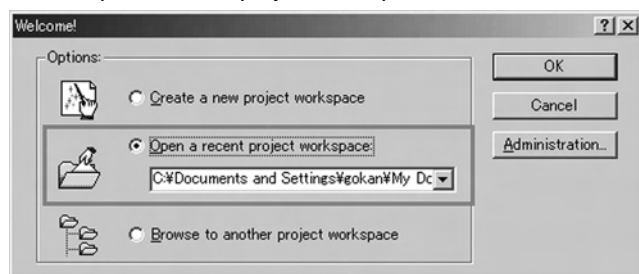
Click on Start, and select Program, Renesas, Flash Development Tool Kit 3.1, then Flash Development Tool Kit 3.1.



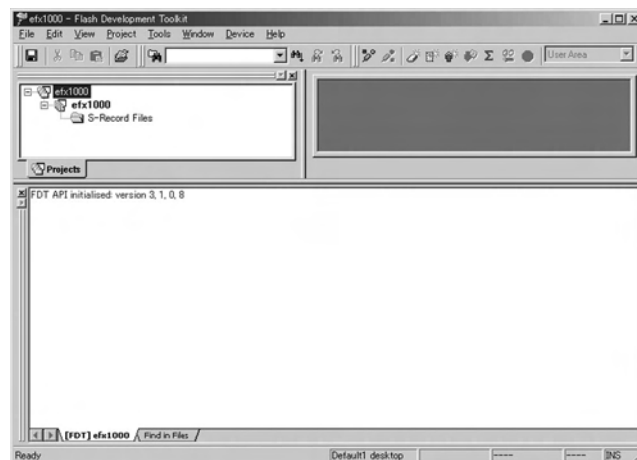
When the program starts, the following message will be displayed. Click on OK.



Then the window shown below will be displayed. Select Open a recent project workspace then click on OK.



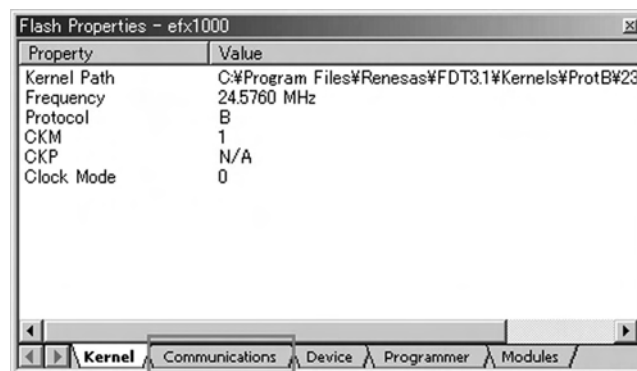
The workspace will open.



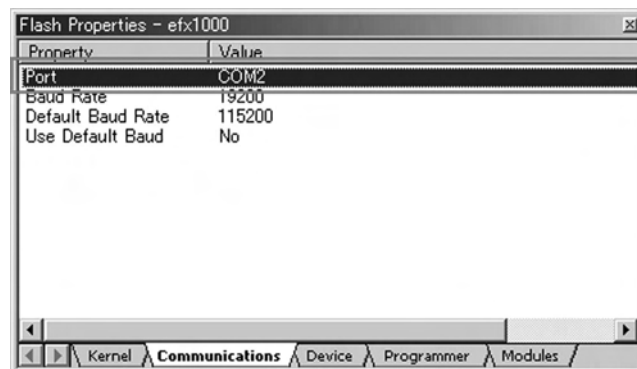
To change the port where the RS-232C jig is to be connected, modify the setting in the following way (if the port does not need to be changed, skip to "2. Selecting the .mot file to be downloaded into the DJM-800(efx1000)": Click on the Configure Flash Project icon.



The Flash Properties window will be displayed.



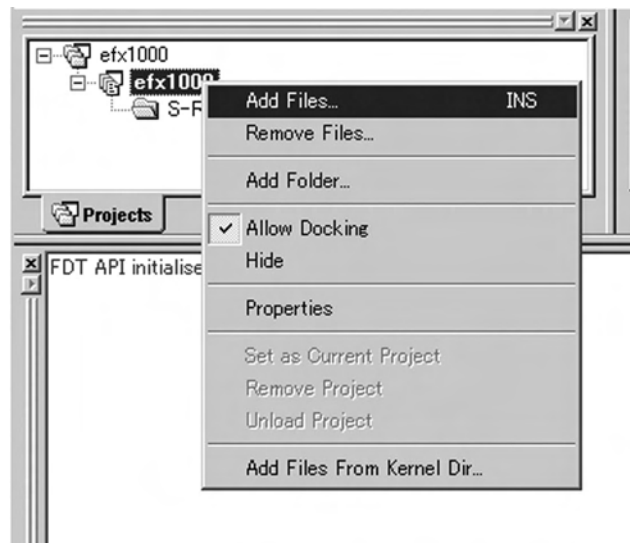
Click on the Communications tab. The screen shown below will be displayed. Click on Port.



- A The window shown below will open. Designate the port then click on Finish. The Communications Port window will then close.

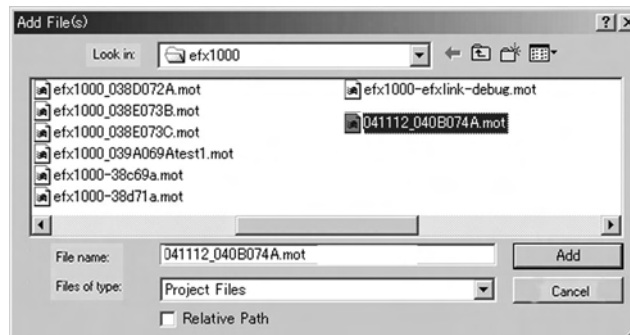


B



C

Select a .mot file to be downloaded from the folder then click on Add.



D

The .mot file to be downloaded will be added.



E

F

3. Downloading the .mot file into the DJM-800

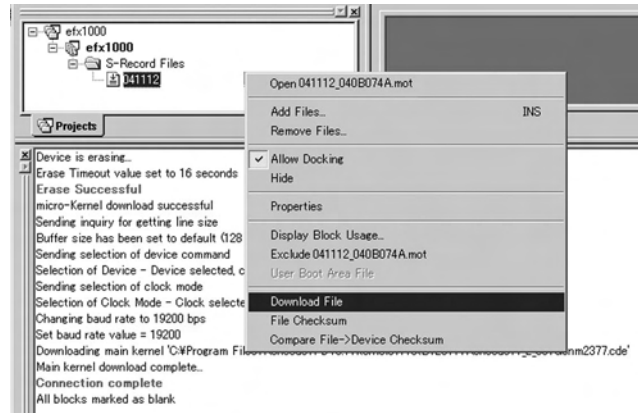
Turn on the DJM-800(efx1000). Click on the Connect icon to activate connection of the DJM-800(efx1000) with the PC.



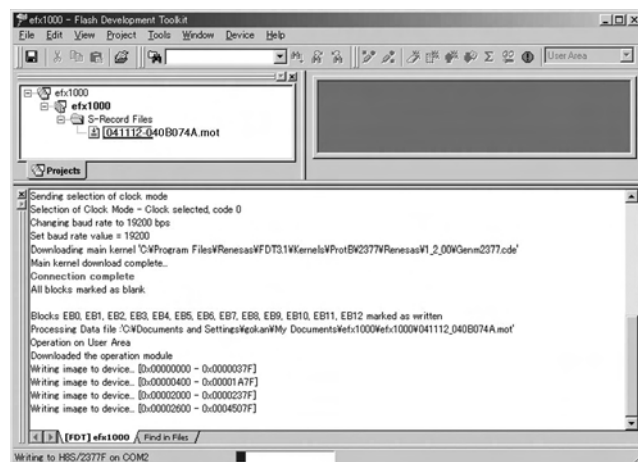
If the display shown below appears, the connection has been successfully made.



Right-click on the .mot file and select Download File.



Downloading will start.

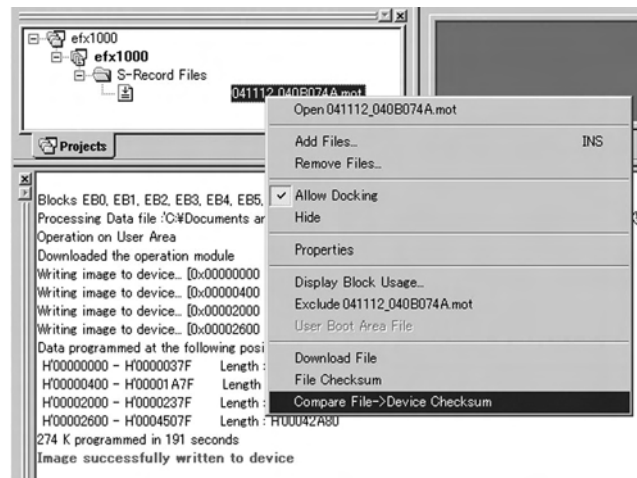


When the message "Image successfully written to device" is displayed, downloading has been finished.



• Confirming if downloading has been successfully completed

Right-click on the .mot file, and select Compare File → Device Checksum.



Check the values enclosed in the frames in the illustration below. If these two values are the same, downloading has been successfully completed.



4. Exiting from the program

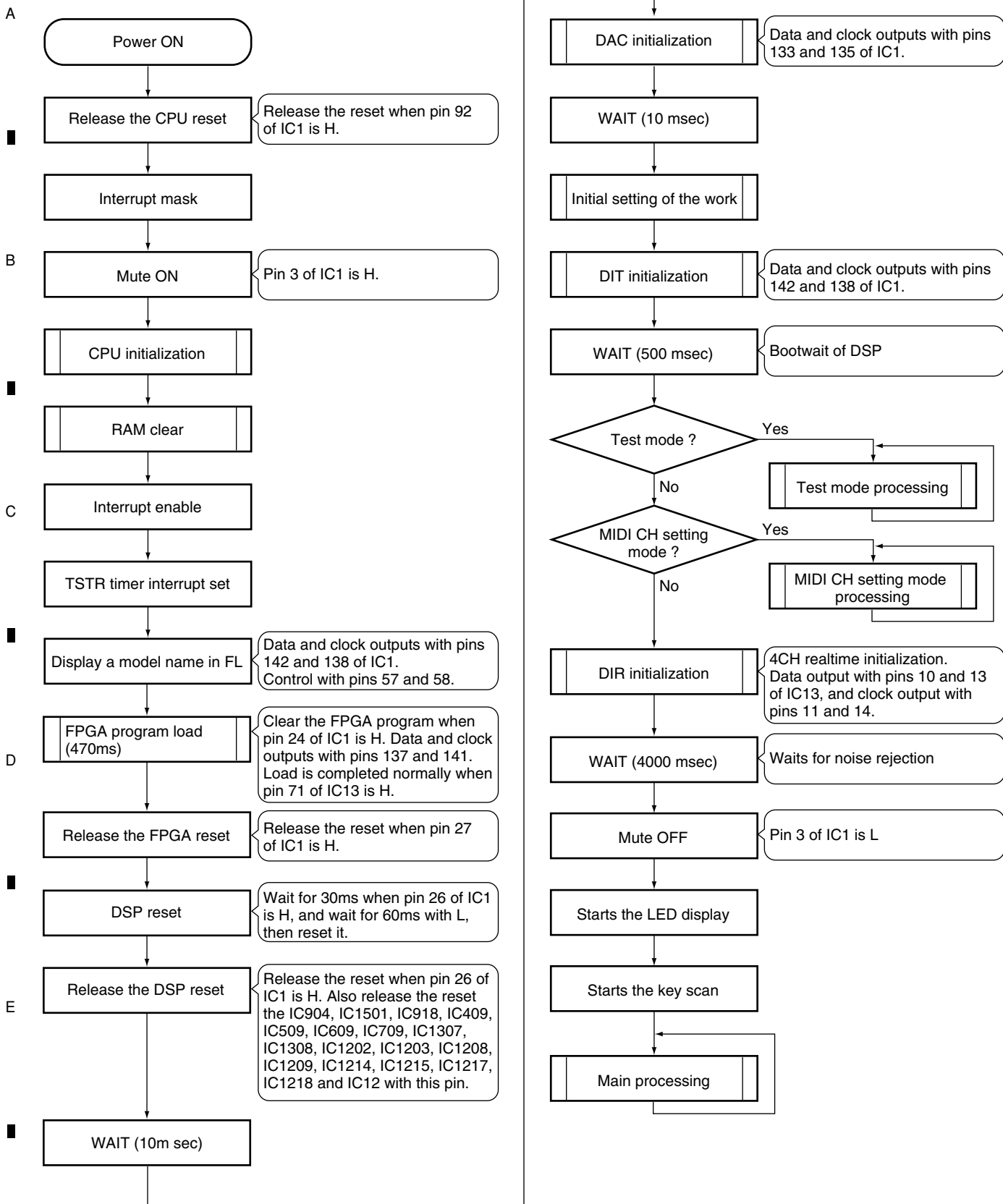
Click on the Disconnect icon to deactivate connection of the DJM-800(efx1000) with the PC.



Turn off the DJM-800(efx1000), and unplug the cables of the RS-232C jig.

7.2 POWER ON SEQUENCE

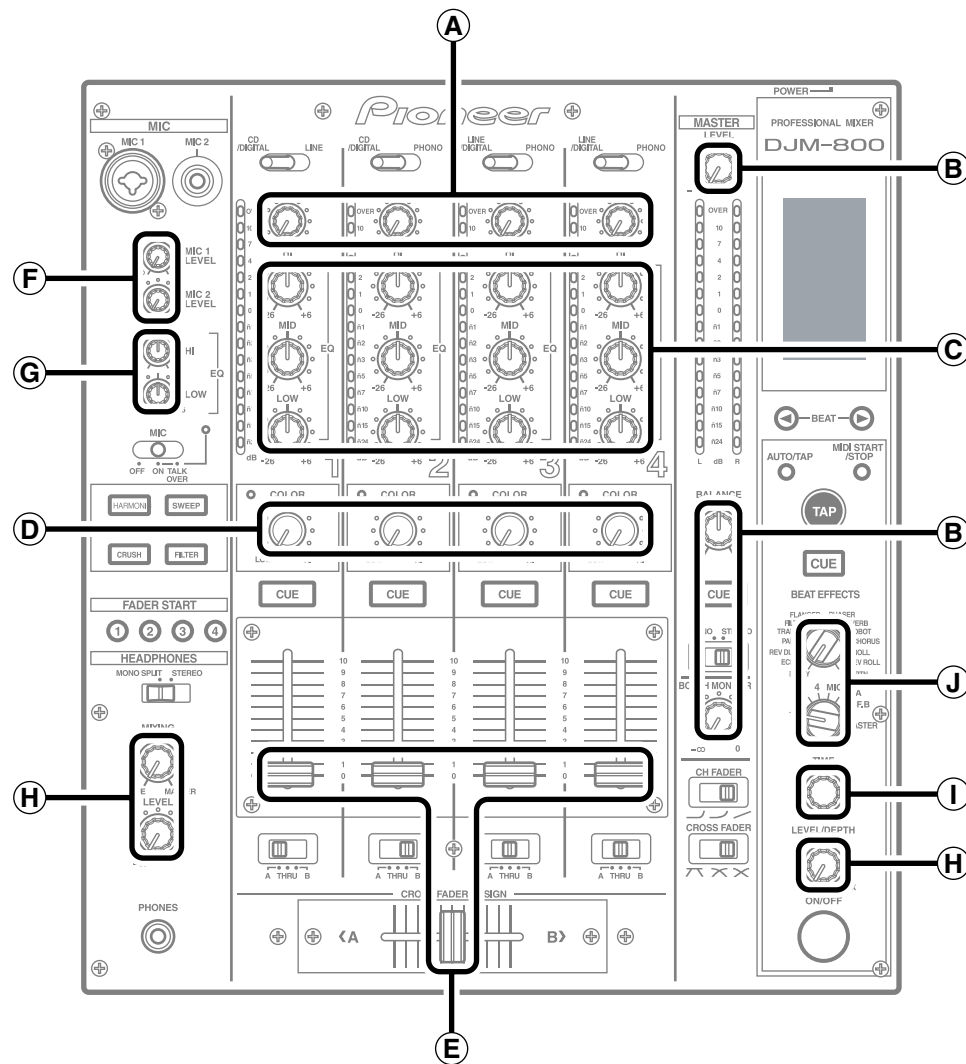
● Power ON Sequence



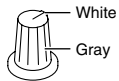
7.3 DISASSEMBLY

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

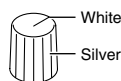
Knobs and Volumes Location



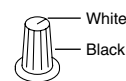
A Rotary SW knob S (C)
(DAA1204) ×4



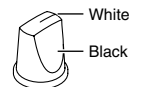
D Rotary SW knob (HM)
(DAA1197) ×4



G Rotary SW knob S (A)
(DAA1177) ×2



J Select knob
(DAA1179) ×2



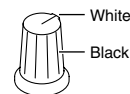
B Rotary SW knob (MA)
(DAA1198) ×3



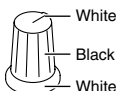
E Slider knob (L2)
(DAC2371) ×5



H Rotary SW knob (A)
(DAA1175) ×3



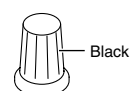
C Rotary SW knob (B)
(DAA1176) ×12



F Rotary SW knob S (B)
(DAA1178) ×2



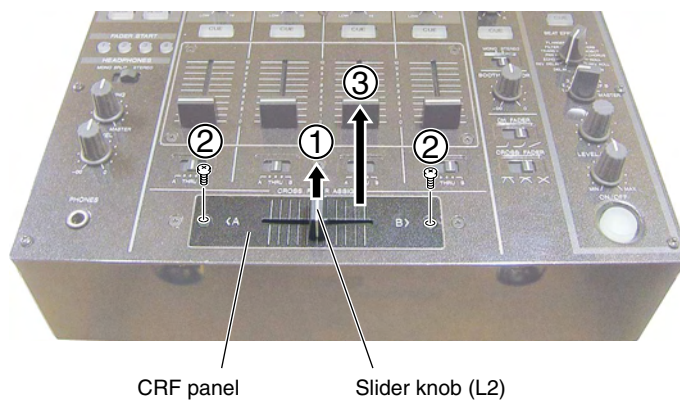
I Rotary SW knob (C)
(DAA1180) ×1



Disassembly

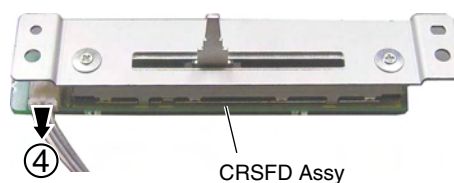
1 Cross Fader Section

- ① Remove the slider knob (L2).
- ② Remove the two screws.
- ③ Remove the CRSFD Assy with CRF panel.



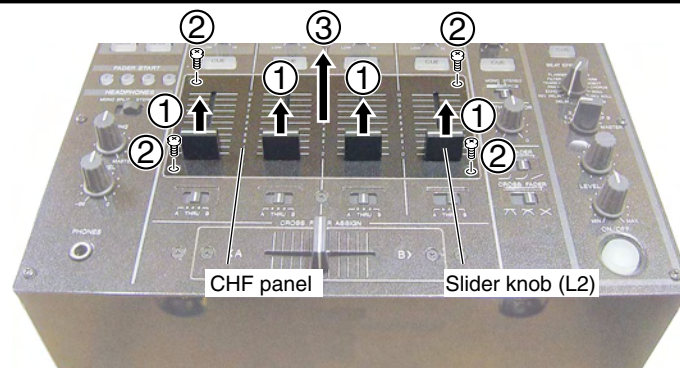
- ④ Disconnect the connector.

Exchange



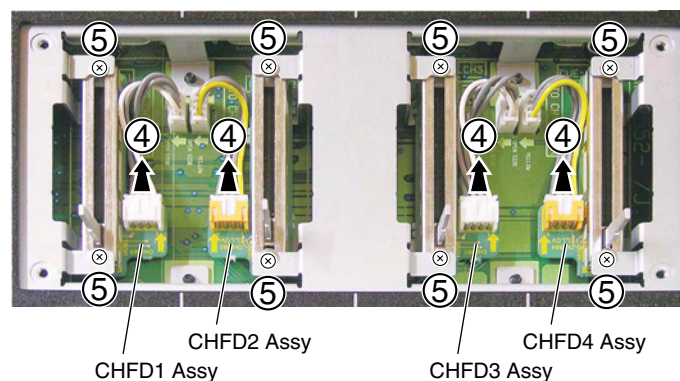
2 CH Fader Section

- ① Remove the four slider knob (L2)s.
- ② Remove the four screws.
- ③ Remove the CHF panel.



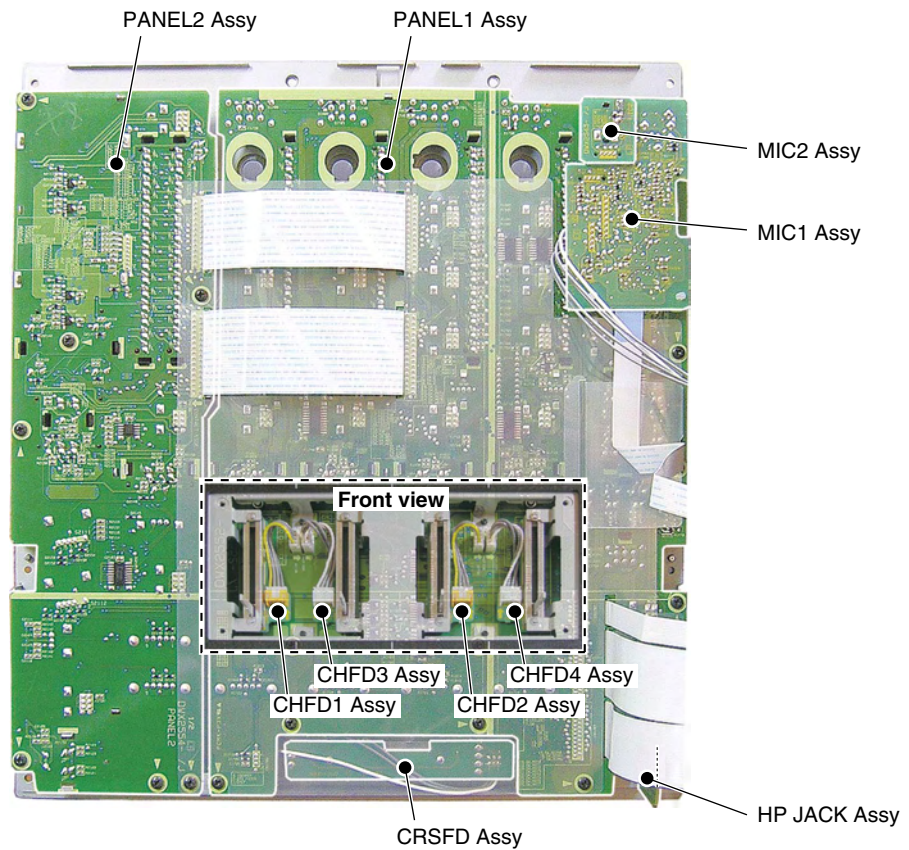
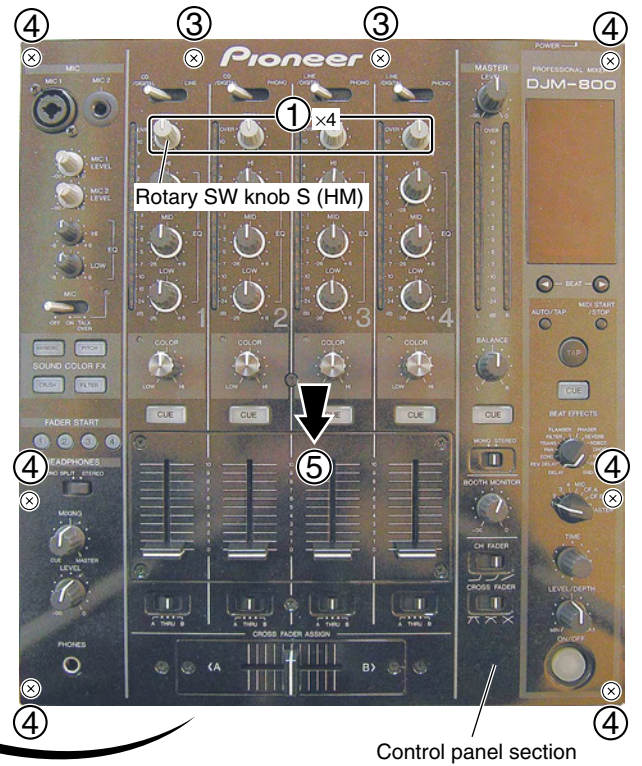
- ④ Disconnect the four connectors.
- ⑤ Remove the eight screws.

Exchange



3 Control Panel Section

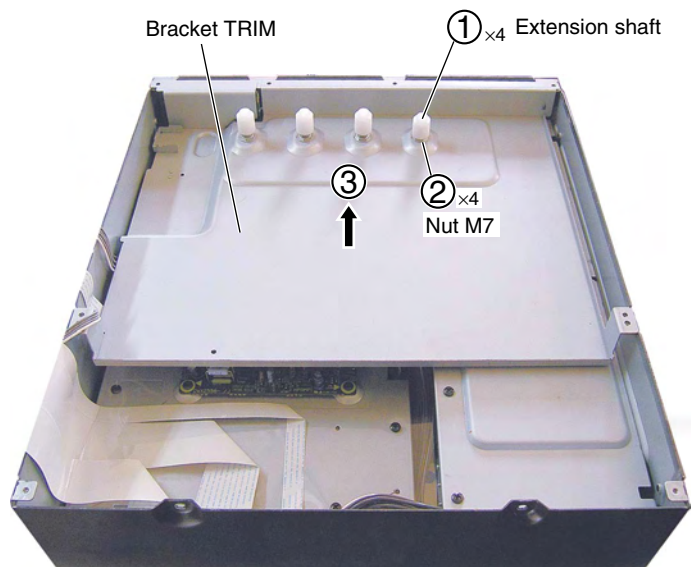
- ① Remove the four Rotary SW knob S (HM)s.
- ② Remove the two screws.
- ③ Remove the two screws.
- ④ Remove the six screws.
- ⑤ Remove the control panel section.



4 Bracket TRIM and Shield Case

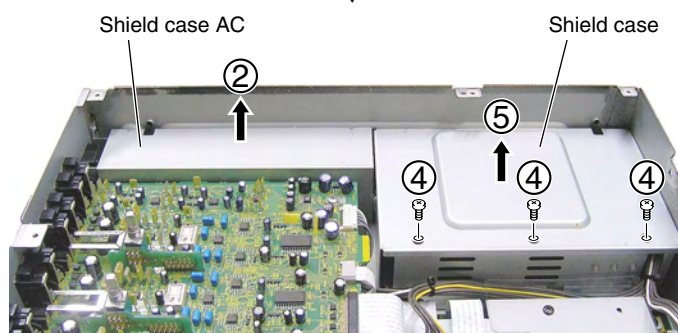
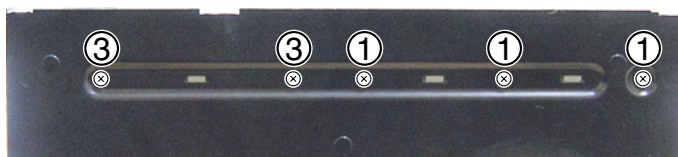
● Bracket TRIM

- ① Remove the four extension shafts.
- ② Remove the four nuts M7.
- ③ Remove the bracket TRIM.



● Shield Case AC and Shield Case

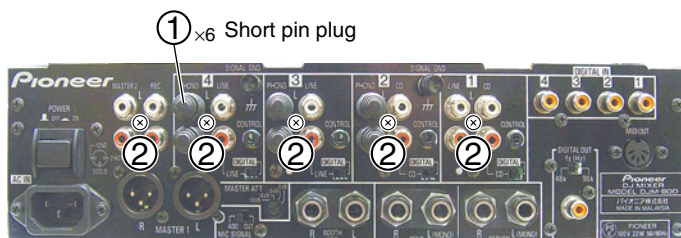
- ① Remove the three screws.
- ② Remove the shield case AC.
- ③ Remove the two screws.
- ④ Remove the three screws.
- ⑤ Remove the shield case.



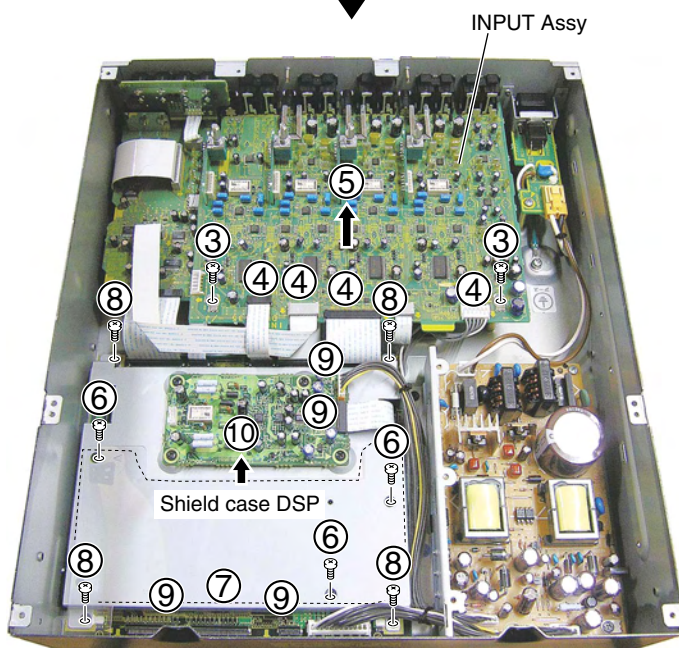
5 INPUT Assy and Shield Case DSP

● INPUT Assy

- ① Remove the six short pin plugs.
- ② Remove the five screws.

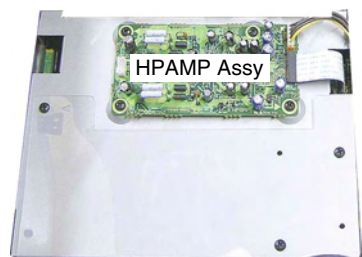
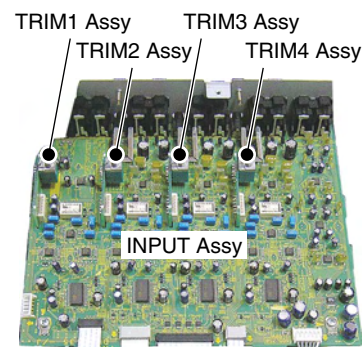
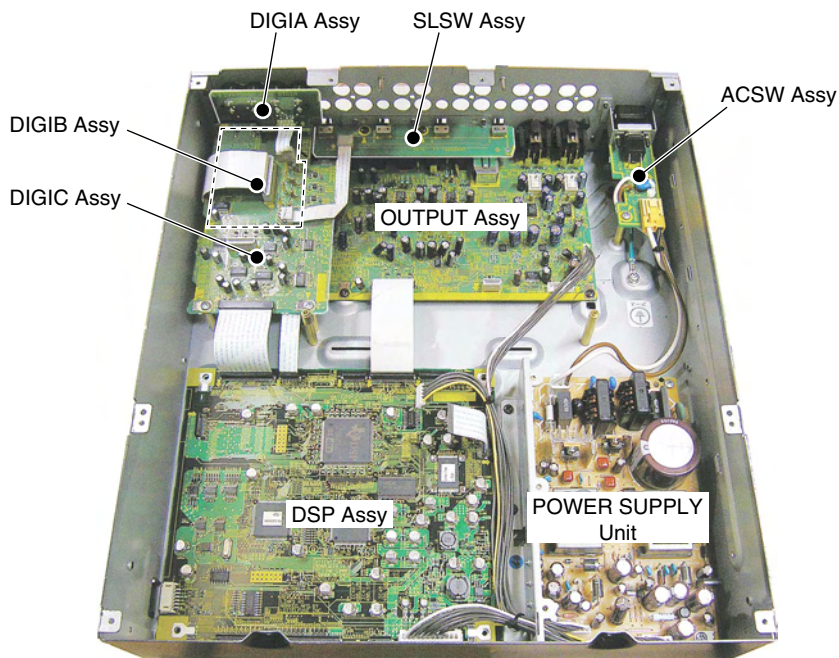
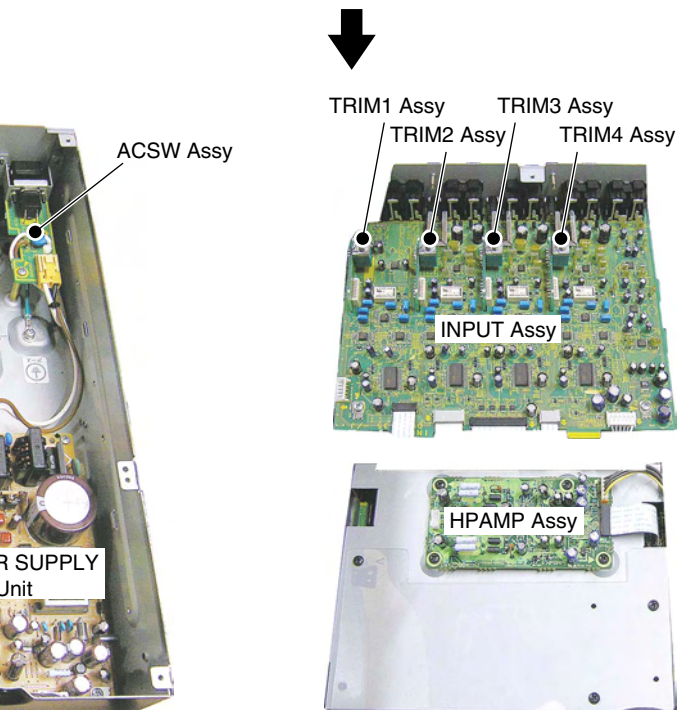


- ③ Remove the two screws.
- ④ Disconnect cables, as required.
- ⑤ Remove the INPUT Assy.



● Shield Case DSP

- ⑥ Remove the three screws.
- ⑦ Remove the styling sheet.
- ⑧ Remove the four screws.
- ⑨ Disconnect cables, as required.
- ⑩ Remove the shield case DSP.



7.4 IC INFORMATION

■ DYW1757(HD64F2377) : (DSP ASSY : IC 1)

• Microcomputer

● Pin Function

No.	Mark	Pin Name	I/O	Pin Function
1	MD2	MD2	I	Mode pin 2 NOR: Mode 4 At rewriting: Mode 3
2	VSS	VSS	I	GND
3	P80	MUTE	O	MUTE signal 0: Mute ON, 1: Mute OFF
4	VCC	VCC	I	Power supply
5	A0	A0	O	Address bus output A0
6	A1	A1	O	Address bus output A1
7	A2	A2	O	Address bus output A2
8	A3	A3	O	Address bus output A3
9	A4	A4	O	Address bus output A4
10	VSS	VSS	I	GND
11	A5	A5	O	Address bus output A5
12	A6	A6	O	Address bus output A6
13	A7	A7	O	Address bus output A7
14	A8	A8	O	Address bus output A8
15	A9	A9	O	Address bus output A9
16	A10	A10	O	Address bus output A10
17	A11	A11	O	Address bus output A11
18	VSS	VSS	I	GND
19	PB4	DIGIANA1	I	CH1 Digital <-> Analog SW
20	PB5	DIGIANA2	I	CH2 Digital <-> Analog SW H : Digital, L : Analog
21	PB6	DIGIANA3	I	CH3 Digital <-> Analog SW H : Digital, L : Analog
22	PB7	DIGIANA4	I	CH4 Digital <-> Analog SW H : Digital, L : Analog
23	PA0	XDONE	I	FPGA program ready H : Digital, L : Analog
24	PA1	XPGM	O	FPGA program clear
25	VSS	VSS	I	GND
26	PA2	DSP_RESET	O	RESET OUT H : Release of RESET, L : RESET
27	PA3	FPGA_RESET	O	RESET OUT H : Release of RESET, L : RESET
28	PA4	DIGIANA_SEL1	O	CH1 input select 0: Analog side 1, 1: Digital side 1
29	PA5	DIGIANA_SEL2	O	CH2 input select 0: Analog side 2, 1: Digital side 2
30	PA6	DIGIANA_SEL3	O	CH3 input select 0: Analog side 3, 1: Digital side 3
31	PA7	DIGIANA_SEL4	O	CH4 input select 0: Analog side 4, 1: Digital side 4
32	EMLE	EMLE	I	Emulator enable pin Set to L level at normal operation. GND by 1k.
33	TXD3	MIDI_TXD	O	MIDI TXD send only
34	P82	SIO_SEL0	O	SIO port select 0 FPGA, DAC, selection (at power on) H : FPGA, L : DAC
35	PH0	SIO_SEL1	O	SIO port select 1 DIT selection L : DIT
36	PH1	SIO_SEL2	O	SIO port select 2 EEPROM selection
37	PH2	SIO_SEL3	O	FPGA_SIO0 DIR (CH1,CH3) selection L : DIR
38	PH3	SIO_SEL4	O	FPGA_SIO1 DIR (CH2,CH4) selection L : DIR
39	WDTOVF _n	EMU_03	O	Overflow output of the watch dock timer for H8JTAG emulator
40	NMI	NMI	I	Nonmaskable interrupt L level fixing
41	VCC	VCC	I	Power supply
42	P10	SW_MAT0	I	KEY matrix b0 input
43	P11	SW_MAT1	I	KEY matrix b1 input
44	P12	SW_MAT2	I	KEY matrix b2 input
45	P13	SW_MAT3	I	KEY matrix b3 input
46	P14	SW_MAT4	I	KEY matrix b4 input
47	P15	SW_MAT5	I	KEY matrix b5 input
48	P16	SW_MAT6	I	KEY matrix b6 input

No.	Mark	Pin Name	I/O	Pin Function
49	P17	SW_MAT7	I	KEY matrix b7 input
50	VSS	VSS	I	GND
51	P20	SW_SCAN0	O	KEY SCAN ADDRESS
52	P21	SW_SCAN1	O	KEY SCAN ADDRESS
53	P22	SW_SCAN2	O	KEY SCAN ADDRESS
54	TXD4	SIO4_TXD	O	Vacant, CH1 line select, H : LINE, L : CD/DIGITAL
55	RXD4	INPUT_SEL1	I	
56	P25	MIC_OUT	I	BOOTH MONITOR MIC CUT/ADD H : CUT, L : ADD
57	P26	FL_LAT	O	For FL control
58	P27	FL_BK	O	For FL control
59	P83	INPUT_SEL2	O	H : PHONO, L : CD/DIGITAL
60	P84	INPUT_SEL3	O	H : PHONO, L : LINE/DIGITAL
61	P85	INPUT_SEL4	O	H : PHONO, L : LINE/DIGITAL
62	DCTL	DCTL	I	L fixing
63	D0	D0	I/O	Data bus D0
64	D1	D1	I/O	Data bus D1
65	D2	D2	I/O	Data bus D2
66	D3	D3	I/O	Data bus D3
67	D4	D4	I/O	Data bus D4
68	D5	D5	I/O	Data bus D5
69	D6	D6	I/O	Data bus D6
70	VSS	VSS	I	GND
71	D7	D7	I/O	Data bus D7
72	VCC	VCC	I	Power supply
73	D8	D8	I/O	Data bus D8
74	D9	D9	I/O	Data bus D9
75	D10	D10	I/O	Data bus D10
76	D11	D11	I/O	Data bus D11
77	D12	D12	I/O	Data bus D12
78	D13	D13	I/O	Data bus D13
79	D14	D14	I/O	Data bus D14
80	D15	D15	I/O	Data bus D15
81	P60	LED_DIG0	O	LED display selectio A_0
82	P61	LED_DIG1	O	LED display selectio A_1
83	P62	LED_DIG2	O	LED display selectio A_2
84	WAIT	WAIT	I	For bus control FPGA request
85	PF1	EFCT_PARA10	I	For encoder input detection
86	PF2	EFCT_PARA11	I	For encoder input detection
87	PF3	LWRn	O	For bus control Use for LED control.
88	PF4	HWRn	O	For bus control FPGA
89	PF5	RDn	O	For bus control FPGA
90	PF6	Asn	O	For bus control FPGA
91	PLLVCC	PLLVCC	I	Power supply for internal PLL oscillator VCC
92	RESn	RESn	I	Reset input
93	PLLVSS	PLLVSS	I	GND for internal PLL oscillator
94	PF7		O	TEST Pin
95	VSS	VSS	I	GND
96	XTAL	XTAL	I	Crystal connection pin

A

No.	Mark	Pin Name	I/O	Pin Function
97	EXTAL	EXTAL	I	Crystal connection/external clock input
98	VCC	VCC	I	Power supply
99	VCC	VCC	I	Power supply
100	NC1	NC1	-	Non connection (open)
101	NC2	NC2	-	Non connection (open)
102	VSS	VSS	I	GND
103	STBYn		I	PULL UP
104	P63	VR_A01	O	A/D input select
105	P64	VR_A02	O	A/D input select
106	P65	VR_A03	O	A/D input select
107	CS0n	CS0	O	Expansion I/O: DP_RAM (FPGA)
108	CS1n	CS1	O	Expansion I/O: LED display DATA3
109	CS2n	CS2	O	Expansion I/O: LED display DATA1
110	CS3n	CS3	O	Expansion I/O: LED display DATA2
111	AVCC	AVCC	I	Power supply for A/D
112	VREF	VREF	I	Reference voltage input for A/D
113	AN0	VR0	I	VRin0 (MIC HIGH, LOW/H.P.MIXING, Volume) input
114	AN1	VR1	I	VRin1 (CH1: HIGH, MID, LOW, EFFECT) input
115	AN2	VR2	I	VRin2 (CH2: HIGH, MID, LOW, EFFECT) input
116	AN3	VR3	I	VRin3 (CH3: HIGH, MID, LOW, EFFECT) input
117	AN4	VR4	I	VRin4 (CH4: HIGH, MID, LOW, EFFECT) input
118	AN5	VR5	I	VRin5 (MASTER: LEVEL, BALANCE, /Booth LEVEL/effect DEPTH) input
119	AN6	VR6	I	VRin6 (TRIM 1-4) input
120	AN7	CH1_FADER	I	CH1 fader input
121	AN8	CH2_FADER	I	CH2 fader input
122	AN9	CH3_FADER	I	CH3 fader input
123	AN10	CH4_FADER	I	CH4 fader input
124	AN11	CRS_FADER	I	Cross fader input
125	AN12	TAP	I	TAP input
126	AN13	BEAT_EFON	I	Beat Effect SW
127	AN14	4896_SEL	I	48K/96K switching input
128	AN15	RET_IN	I	For confirming connection of the return cable
129	AVSS	AVSS	I	GND for A/D
130	PG4	EMU_01	I	For H8JTAG emulator
131	PG5	EMU_05	I	For H8JTAG emulator
132	PG6	EMU_06	I	For H8JTAG emulator
133	TXD2	SIO2_TXD	O	For SIO2gloup (DAC1-4) DAC_data
134	RXD2	SIO2_RXD	I	For SIO2gloup (DAC1-4) DAC_data
135	SCK2	SIO2_SCK	O	For SIO2gloup (DAC1-4) DAC_data
136	P53	EMU_02	I	For H8JTAG emulator
137	SCK1	SIO1_CLK	O	For SIO1gloup USB, FPGA, EEPROM, DIT
138	SCK0	FL_CLK	O	For FL display
139	RXD1	SIO1_RXD	I	For rewriting RXD & SIO1gloup FPGA, DIT
140	P32	P32	O	Vacant
141	TXD1	SIO1_TXD	O	For rewriting TXD & SIO1gloup FPGA, DIT
142	TXD0	FL_TXD	O	For FL display
143	MD0	MD0	I	Mode pin 0 NOR: Mode 4 At rewriting: Mode 3
144	MD1	MD1	I	Mode pin 1 NOR: Mode 4 At rewriting: Mode 3

F

■ D610A003BPYP A225 (DSP ASSY : IC 22)

• DSP Microcomputer

● Pin Function

No.	Pin Name	I/O	IPD/IPU	Pin Function
1	GP0[4](EXT_INT4)/AMUTEIN1	O	IPU	DSP state display LED After main operation start, light
2	GP0[6](EXT_INT6)	O	IPU	TEST pin for DMA
3	CVDD	—	—	Power supply
4	VSS	—	—	GND
5	DVDD	—	—	Power supply
6	GP0[5](EXT_INT5)/AMUTEIN0	O	IPU	TEST pin for DMA
7	GP0[7](EXT_INT7)	O	IPU	TEST pin for DMA
8	CLKS1/SCL1	—	—	McBSP1 GND
9	DVDD	—	—	Power supply
10	VSS	—	—	GND
11	CVDD	—	—	Power supply
12	TINP1/AHCLKX0	I	IPD	McASP0 McASP High frequency transmit bit clock
13	TOUT1/AXR0[4]/AXR1[11]	O	IPD	McASP0 H.P. Out
14	CVDD	—	—	Power supply
15	VSS	—	—	GND
16	CLKX0/ACLKX0	I	IPD	McASP0 McASP transmit bit clock
17	TINP0/AXR0[3]/AXR1[12]	O	IPD	McASP0 Send Out
18	TOUT0/AXR0[2]/AXR1[13]	O	IPD	McASP0 Rec Out
19	CLKR0/ACLKR0	I	IPD	McASP0 McASP receive bit clock
20	DX0/AXR0[1]/AXR1[14]	O	IPU	McASP0 Booth Out
21	FSX0/AFSX0	I	IPD	McASP0 McASP transmit LRCLK (FS)
22	CVDD	—	—	Power supply
23	VSS	—	—	GND
24	FSR0/AFSR0	I	IPD	McASP0 McASP receive LRCLK (FS)
25	DVDD	—	—	Power supply
26	VSS	—	—	GND
27	DR0/AXR0[0]/AXR1[15]	O	IPU	McASP0 Master Out & Digital Out
28	CLKS0/AHCLKR0	I	IPD	McASP0 McASP High frequency receive bit clock
29	CVDD	—	—	Power supply
30	VSS	—	—	GND
31	FSX1	—	IPD	McBSP1 Vacant
32	DX1/AXR0[5]/AXR1[10]	—	IPU	McBSP1 Vacant
33	CLKX1/AMUTE0	—	IPD	McBSP1 Vacant
34	VSS	—	—	GND
35	CVDD	—	—	Power supply
36	CLKR1/AXR0[6]/AXR1[9]	—	IPD	McBSP1 Vacant
37	DR1/SDA1	—	—	McBSP1 Vacant (GND)
38	FSR1/AXR0[7]/AXR1[8]	—	IPD	McBSP1 Vacant
39	VSS	—	—	GND
40	CVDD	—	—	Power supply
41	SCL0	—	—	I2C0 Vacant (GND)
42	SDA0	—	—	I2C0 Vacant (GND)
43	CVDD	—	—	Power supply
44	DVDD	—	—	Power supply
45	VSS	—	—	GND
46	CVDD	—	—	Power supply
47	DVDD	—	—	Power supply
48	VSS	—	—	GND

IPD = Internal pulldown, IPU = Internal pullup.

A

No.	Pin Name	I/O	IPD/IPU	Pin Function
49	VSS	–	–	GND
50	CVDD	–	–	Power supply
51	CVDD	–	–	Power supply
52	VSS	–	–	GND
53	CVDD	–	–	Power supply
54	VSS	–	–	GND
55	DVDD	–	–	Power supply
56	ARDY	–	IPU	For SD-RAM access (signal) ARDY
57	xCE3	–	IPU	For SD-RAM access (signal) NO ASSIGN
58	DVDD	–	–	Power supply
59	VSS	–	–	GND
60	CVDD	–	–	Power supply
61	xCE2	O	IPU	For SD-RAM access (signal)
62	EA2	O	IPU	For SD-RAM access (address) External address
63	EA3	O	IPU	For SD-RAM access (address) External address
64	EA4	O	IPU	For SD-RAM access (address) External address
65	DVDD	–	–	Power supply
66	VSS	–	–	GND
67	CVDD	–	–	Power supply
68	EA5	O	IPU	For SD-RAM access (address) External address
69	EA6	O	IPU	For SD-RAM access (address) External address
70	EA7	O	IPU	For SD-RAM access (address) External address
71	EA8	O	IPU	For SD-RAM access (address) External address
72	DVDD	–	–	Power supply
73	VSS	–	–	GND
74	EA9	O	IPU	For SD-RAM access (address) External address
75	xAOE/xSDRAS/xSSOE	O	IPU	For SD-RAM access (signal) xAOE/xSDRAS/xSSOE
76	EA10	O	IPU	For SD-RAM access (address) External address
77	ECLKOUT	O	IPD	For SD-RAM access (signal) ECLKOUT
78	ECLKIN	I	IPD	For SD-RAM access (signal) Vacant (FREE)
79	xARE/xSDCAS/xSSADS	I	IPU	For SD-RAM access (signal) xARE/xSDCAS/xSSADS
80	CVDD	–	–	Power supply
81	VSS	–	–	GND
82	CLKOUT2/GP0[2]	–	IPD	Vacant (FREE)
83	xAWE/xSDWE/xSSWE	O	IPU	For SD-RAM access (signal) xAWE/xSDWE/xSSWE
84	DVDD	–	–	Power supply
85	VSS	–	–	GND
86	EA11	O	IPU	For SD-RAM access (address) External address
87	DVDD	–	–	Power supply
88	VSS	–	–	GND
89	CVDD	–	–	Power supply
90	EA14	O	IPU	For SD-RAM access (address) External address
91	EA13	O	IPU	For SD-RAM access (address) External address
92	EA16	O	IPU	For SD-RAM access (address) External address
93	EA12	O	IPU	For SD-RAM access (address) External address
94	EA15	O	IPU	For SD-RAM access (address) External address
95	EA18	O	IPU	For SD-RAM access (address) External address
96	CVDD	–	–	Power supply

IPD = Internal pulldown, IPU = Internal pullup.

F

No.	Pin Name	I/O	IPD/IPU	Pin Function
97	VSS	–	–	GND
98	DVDD	–	–	Power supply
99	EA17	O	IPU	For SD-RAM access (address) External address
100	EA19	O	IPU	For SD-RAM access (address) External address
101	EA20	O	IPU	For SD-RAM access (address) Vacant (FREE)
102	xCE0	O	IPU	For SD-RAM access (signal) DPRAM (FPGA) ACCESS
103	xCE1	O	IPU	For SD-RAM access (signal) FLASH ROM ACCESS
104	CVDD	–	–	Power supply
105	CVDD	–	–	Power supply
106	VSS	–	–	GND
107	DVDD	–	–	Power supply
108	xBE1	–	IPU	For SD-RAM access (signal) xBE1
109	EA21	O	IPU	For SD-RAM access (address) Vacant (FREE)
110	xBE0	–	IPU	For SD-RAM access (signal) xBE0
111	ED13/GP1[13]	I/O	IPU	For SD-RAM access (data) External data bus
112	ED15/GP1[15]	I/O	IPU	For SD-RAM access (data) External data bus
113	ED14/GP1[14]	I/O	IPU	For SD-RAM access (data) External data bus
114	DVDD	–	–	Power supply
115	VSS	–	–	GND
116	CVDD	–	–	Power supply
117	ED11/GP1[11]	I/O	IPU	For SD-RAM access (data) External data bus
118	ED12/GP1[12]	I/O	IPU	For SD-RAM access (data) External data bus
119	ED9/GP1[9]	I/O	IPU	For SD-RAM access (data) External data bus
120	ED10/GP1[10]	I/O	IPU	For SD-RAM access (data) External data bus
121	ED6/GP1[6]	I/O	IPU	For SD-RAM access (data) External data bus
122	ED7/GP1[7]	I/O	IPU	For SD-RAM access (data) External data bus
123	ED8/GP1[8]	I/O	IPU	For SD-RAM access (data) External data bus
124	CVDD	–	–	Power supply
125	VSS	–	–	GND
126	DVDD	–	–	Power supply
127	ED4/GP1[4]	I/O	IPU	For SD-RAM access (data) External data bus
128	ED5/GP1[5]	I/O	IPU	For SD-RAM access (data) External data bus
129	ED3/GP1[3]	I/O	IPU	For SD-RAM access (data) External data bus
130	ED2/GP1[2]	I/O	IPU	For SD-RAM access (data) External data bus
131	ED1/GP1[1]	I/O	IPU	For SD-RAM access (data) External data bus
132	ED0/GP1[0]	I/O	IPU	For SD-RAM access (data) External data bus
133	CVDD	–	–	Power supply
134	VSS	–	–	GND
135	xHINT/GP0[1]	–	IPU	Open(FREE)
136	BUSREQ	–	IPU	For SD-RAM access (signal) Vacant (FREE)
137	xHOLDA	–	IPU	For SD-RAM access (signal) Vacant (FREE)
138	xHOLD	–	IPU	For SD-RAM access (signal) Set to "H".
139	HHWIL/AFSR1	I	IPU	McASP1 McASP receive LRCLK(FS)
140	xHRDY/ACLKR1	I	IPD	McASP1 McASP receive bit clock
141	DVDD	–	–	Power supply
142	VSS	–	–	GND
143	HR/W/AXR0[15]/AXR1[0]	I	IPU	McASP1 CH1 IN
144	HCNTL1/AXR0[14]/AXR1[1]	I	IPU	McASP1 CH2 IN

IPD = Internal pulldown, IPU = Internal pullup.

A

No.	Pin Name	I/O	IPD/IPU	Pin Function
145	xHCS/AXR0[13]/AXR1[2]	I	IPU	McASP1 CH3 IN
146	HCNTL0/AXR0[12]/AXR1[3]	I	IPU	McASP1 CH4 IN
147	HD0/AXR0[11]/AXR1[4]	I	IPU	McASP1 MIC IN
148	VSS	–	–	GND
149	CVDD	–	–	Power supply
150	xHDS2/AXR0[10]/AXR1[5]	I	IPU	McASP1 RETURN IN
151	xHDS1/AXR0[9]/AXR1[6]	–	IPU	Vacant
152	HD1/AXR0[8]/AXR1[7]	O	IPU	McASP0 Vacant
153	xHAS/ACLKX1	I	IPU	McASP1 McASP transmit bit clock
154	HD3/AMUTE1	O	IPU	McASP1 McASP mute output "L"
155	HD2/AFSX1	I	IPU	McASP1 McASP transmit LRCLK (FS)
156	HD4/GP0[0]	–	IPD	MODE "H"
157	CVDD	–	–	Power supply
158	VSS	–	–	GND
159	HD5/AHCLKX1	–	IPU	McASP1 McASP High frequency transmit bit clock
160	HD8/GP0[8]	–	IPU	Set to "H".
161	HD6/AHCLKR1	–	IPU	McASP1 McASP receive high-frequency master clock
162	DVDD	–	–	Power supply
163	VSS	–	–	GND
164	HD7/GP0[3]	–	IPU	TESTPort Vacant (FREE)
165	HD9/GP0[9]	–	IPU	MODE Vacant (FREE)
166	HD10/GP0[10]	–	IPU	MODE Vacant (FREE)
167	HD11/GP0[11]	–	IPU	MODE Vacant (FREE)
168	HD12/GP0[12]	–	IPU	Vacant (FREE)
169	CVDD	–	–	Power supply
170	VSS	–	–	GND
171	CVDD	–	–	Power supply
172	HD13/GP0[13]	–	IPU	MODE Vacant (FREE)
173	HD14/GP0[14]	–	IPU	Vacant (GND)
174	HD15/GP0[15]	–	IPU	Vacant (FREE)
175	NMI	–	IPD	Vacant (GND)
176	xRESET	I	–	Reset signal
177	CVDD	–	–	Power supply
178	OSCIN	–	–	Vacant (GND)
179	OSCOUT	–	–	Vacant (FREE)
180	OSCVSS	–	–	OSC GND
181	OSCVDD	–	–	OSC Power supply
182	VSS	–	–	GND
183	DVDD	–	–	Power supply
184	CLKOUT3	–	IPD	Vacant (FREE)
185	EMU1	I/O	IPU	For JTAG JTAG 14 pin
186	EMU0	I/O	IPU	For JTAG JTAG 13 pin
187	TDO	O	IPU	For JTAG JTAG 7 pin
188	DVDD	–	–	Power supply
189	VSS	–	–	GND
190	CVDD	–	–	Power supply
191	TDI	I	IPU	For JTAG JTAG 3 pin
192	TMS	I	IPU	For JTAG JTAG 1 pin

IPD = Internal pulldown, IPU = Internal pullup.

F

No.	Pin Name	I/O	IPD/IPU	Pin Function
193	TCK	I	IPU	For JTAG JTAG 9 and 11 pins
194	VSS	–	–	GND
195	CVDD	–	–	Power supply
196	CVDD	–	–	Power supply
197	xTRST	I	IPD	For JTAG JTAG 2 pin
198	RSV2	–	IPU	Vacant (free) non connection
199	VSS	–	–	GND
200	RSV0	–	–	Vacant (free) non connection
201	CVDD	–	–	Power supply
202	PLLHV	–	–	Set to "H".
203	RSV1	–	IPD	GND (VSS)
204	CLKIN	I	IPD	Clock input (24.586MHz)
205	CLKMODE0	–	IPU	Clock mode selection "H"
206	DVDD	–	–	Power supply
207	VSS	–	–	GND
208	CVDD	–	–	Power supply

IPD = Internal pulldown, IPU = Internal pullup.

XC3S50-4TQG144C (DSP ASSY : IC 13)

• FPGA

● Pin Function

No.	Mark	Pin Name	I/O	Pin Function
P1	DSPA1	IO_L01P_7/VRN_7	I	Address bus 1 with DSP
P2	DSPA0	IO_L01N_7/VRP_7	I	Address bus 0 with DSP
P3	Vcc	VCCO_7	–	Power supply
P4	NC	IO/VREF_7	–	Not used
P5	NC	IO_L20P_7	–	Not used
P6	NC	IO_L20N_7	–	Not used
P7	NC	IO_L21P_7	–	Not used
P8	RXD7	IO_L21N_7	I	Serial receive port 7
P9	GND	GND	–	GND
P10	TXD7	IO_L22P_7	O	Serial receive port 7
P11	SCK7	IO_L22N_7	O	Serial clock 7
P12	RXD6	IO_L23P_7	I	Serial receive port 6
P13	TXD6	IO_L23N_7	O	Serial receive port 6
P14	SCK6	IO_L24P_7	O	Serial clock 6
P15	NC	IO_L24N_7	–	Not used
P16	GND	GND	–	GND
P17	NC	IO_L40P_7	–	Not used
P18	NC	IO_L40N_7/VREF_7	–	Not used
P19	Vcc	VCCO_7	–	Power supply
P20	NC	IO_L40P_6/VREF_6	–	Not used
P21	RESET	IO_L40N_6	I	Reset input
P22	GND	GND	–	GND
P23	NC	IO_L24P_6	–	Not used
P24	NC	IO_L24N_6/VREF_6	–	Not used
P25	NC	IO_L23P_6	–	Not used
P26	NC	IO_L23N_6	–	Not used
P27	μCA10	IO_L22P_6	I	Address bus 10 with microcomputer
P28	μCA9	IO_L22N_6	I	Address bus 9 with microcomputer
P29	GND	GND	–	GND
P30	NC	IO_L21P_6	–	Not used
P31	μCA8	IO_L21N_6	I	Address bus 8 with microcomputer
P32	μCA7	IO_L20P_6	I	Address bus 7 with microcomputer
P33	μCA6	IO_L20N_6	I	Address bus 6 with microcomputer
P34	Vcc	VCCO_6	–	Power supply
P35	μCA5	IO_L01P_6/VRN_6	I	Address bus 5 with microcomputer
P36	μCA4	IO_L01N_6/VRP_6	I	Address bus 4 with microcomputer
P37	M1	M1	–	M1
P38	M0	M0	–	M0
P39	M2	M2	–	M2
P40	μCA3	IO_L01P_5/CS_B	I	Address bus 3 with microcomputer
P41	μCA2	IO_L01N_5/RDWR_B	I	Address bus 2 with microcomputer
P42	GND	GND	–	GND
P43	Vcc	VCCO_5	–	Power supply
P44	μCA1	IO/VREF_5	I	Address bus 1 with microcomputer
P45	GND	GND	–	GND
P46	μCA0	IO_L28P_5/D7	I	Address bus 0 with microcomputer
P47	μCCS	IO_L28N_5/D6	I	Chip select with microcomputer
P48	Vcc	VCCAUX	–	Power supply

No.	Mark	Pin Name	I/O	Pin Function
P49	Vcc	VCCINT	–	Power supply
P50	μCRD	IO_L31P_5/D5	I	Read signal with microcomputer
P51	μCWR	IO_L31N_5/D4	I	Write signal with microcomputer
P52	μCD15	IO_L32P_5/GCLK2	I/O	Data bus 15 with microcomputer
P53	μCD14	IO_L32N_5/GCLK3	I/O	Data bus 14 with microcomputer
P54	Vcc	VCCO_5	–	Power supply
P55	μCD13	IO_L32P_4/GCLK0	I/O	Data bus 13 with microcomputer
P56	μCD12	IO_L32N_4/GCLK1	I/O	Data bus 12 with microcomputer
P57	NC	IO_L31P_4/DOUT/BUSY	–	Not used
P58	NC	IO_L31N_4/INIT_B	–	Not used
P59	μCD11	IO_L30P_4/D3	I/O	Data bus 11 with microcomputer
P60	μCD10	IO_L30N_4/D2	I/O	Data bus 10 with microcomputer
P61	Vcc	VCCINT	–	Power supply
P62	Vcc	VCCAUX	–	Power supply
P63	μCD9	IO_L27P_4/D1	I/O	Data bus 9 with microcomputer
P64	GND	GND	–	GND
P65	DATA	IO_L27N_4/DIN/D0	–	DATA (for download)
P66	Vcc	VCCO_4	–	Power supply
P67	GND	GND	–	GND
P68	μCD8	IO_L01P_4/VRN_4	I/O	Data bus 8 with microcomputer
P69	μCD7	IO_L01N_4/VRP_4	I/O	Data bus 7 with microcomputer
P70	μCD6	IO/VREF_4	I/O	Data bus 6 with microcomputer
P71	DONE	DONE	–	DONE signal
P72	CCLK	CCLK	–	CCLK signal
P73	μCD5	IO_L01P_3/VRN_3	I/O	Data bus 5 with microcomputer
P74	μCD4	IO_L01N_3/VRP_3	I/O	Data bus 4 with microcomputer
P75	Vcc	VCCO_3	–	Power supply
P76	μCD3	IO	I/O	Data bus 3 with microcomputer
P77	μCD2	IO_L20P_3	I/O	Data bus 2 with microcomputer
P78	μCD1	IO_L20N_3	I/O	Data bus 1 with microcomputer
P79	μCD0	IO_L21P_3	I/O	Data bus 0 with microcomputer
P80	NC	IO_L21N_3	–	NC
P81	GND	GND	–	GND
P82	NC	IO_L22P_3	–	NC
P83	NC	IO_L22N_3	–	NC
P84	GPIO17	IO_L23P_3/VREF_3	O	I/O port 7 (CH4 fader stop)
P85	GPIO16	IO_L23N_3	O	I/O port 6 (CH4 fader start)
P86	GPIO15	IO_L24P_3	O	I/O port 5 (CH3 fader stop)
P87	GPIO14	IO_L24N_3	O	I/O port 4 (CH3 fader start)
P88	GND	GND	–	GND
P89	GPIO13	IO_L40P_3	O	I/O port 3 (CH2 fader stop)
P90	GPIO12	IO_L40N_3/VREF_3	O	I/O port 2 (CH2 fader start)
P91	Vcc	VCCO_3	–	Power supply
P92	GPIO11	IO_L40P_2/VREF_2	O	I/O port 1 (CH1 fader stop)
P93	GPIO10	IO_L40N_2	O	I/O port 0 (CH1 fader start)
P94	GND	GND	–	GND
P95	NC	IO_L24P_2	–	NC
P96	NC	IO_L24N_2	–	NC

A

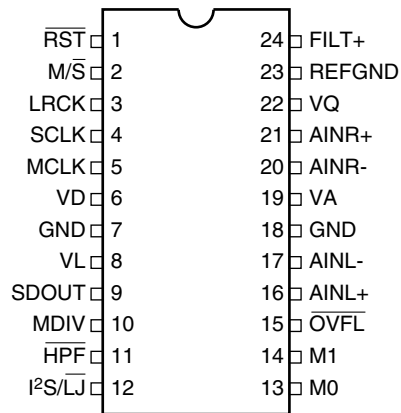
No.	Mark	Pin Name	I/O	Pin Function
P97	DSPD0	IO_L23P_2	I/O	Data bus 0 with DSP
P98	DSPD1	IO_L23N_2/VREF_2	I/O	Data bus 1 with DSP
P99	DSPD2	IO_L22P_2	I/O	Data bus 2 with DSP
P100	DSPD3	IO_L22N_2	I/O	Data bus 3 with DSP
P101	GND	GND	–	GND
P102	DSPD5	IO_L21P_2	I/O	Data bus 5 with DSP
P103	DSPD4	IO_L21N_2	I/O	Data bus 4 with DSP
P104	DSPD8	IO_L20P_2	I/O	Data bus 8 with DSP
P105	DSPD7	IO_L20N_2	I/O	Data bus 7 with DSP
P106	Vcc	VCCO_2	–	Power supply
P107	DSPD6	IO_L01P_2/VRN_2	I/O	Data bus 6 with DSP
P108	DSPD10	IO_L01N_2/VRP_2	I/O	Data bus 10 with DSP
P109	NC	TDO	–	NC
P110	NC	TCK	–	NC
P111	NC	TMS	–	NC
P112	DSPD9	IO_L01P_1/VRN_1	I/O	Data bus 9 with DSP
P113	DSPD12	IO_L01N_1/VRP_1	I/O	Data bus 12 with DSP
P114	GND	GND	–	GND
P115	Vcc	VCCO_1	–	Power supply
P116	DSPD11	IO	I/O	Data bus 11 with DSP
P117	GND	GND	–	GND
P118	DSPD14	IO_L28P_1	I/O	Data bus 14 with DSP
P119	DSPD15	IO_L28N_1	I/O	Data bus 15 with DSP
P120	Vcc	VCCAUX	–	Power supply
P121	Vcc	VCCINT	–	Power supply
P122	DSPD13	IO_L31P_1	I/O	Data bus 13 with DSP
P123	DSPCS	IO_L31N_1/VREF_1	I	Chip select from DSP
P124	DSPA10	IO_L32P_1/GCLK4	I	Address bus 10 with DSP
P125	DSPA9	IO_L32N_1/GCLK5	I	Address bus 9 with DSP
P126	Vcc	VCCO_1	–	Power supply
P127	DSPWE	IO_L32P_0/GCLK6	I	DSP write signal
P128	CLK	IO_L32N_0/GCLK7	I	Clock input
P129	DSPA8	IO_L31P_0/VREF_0	I	Address bus 8 with DSP
P130	DSPRD	IO_L31N_0	I	DSP read signal
P131	DSPA7	IO_L30P_0	I	Address bus 7 with DSP
P132	DSPA6	IO_L30N_0	I	Address bus 6 with DSP
P133	Vcc	VCCINT	–	Power supply
P134	Vcc	VCCAUX	–	Power supply
P135	DSPA5	IO_L27P_0	I	Address bus 5 with DSP
P136	GND	GND	–	GND
P137	DSPA4	IO_L27N_0	I	Address bus 4 with DSP
P138	Vcc	VCCO_0	–	Power supply
P139	GND	GND	–	GND
P140	DSPA3	IO_L01P_0/VRN_0	I	Address bus 3 with DSP
P141	DSPA2	IO_L01N_0/VRP_0	I	Address bus 2 with DSP
P142	HSWAP_EN	HSWAP_EN	–	HSWAP_EN
P143	PROG_B	PROG_B	–	PROG_B (XPGM)
P144	NC	TDI	–	Not used

F

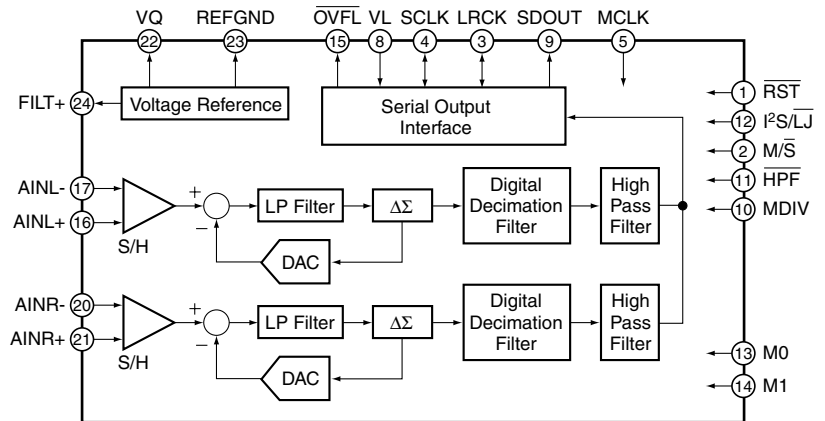
CS5361 (INPUT ASSY : IC409, IC509, IC609, IC709)

• Audio A/D Converter

● Pin Arrangement (Top view)



● Block Diagram



● Pin Function

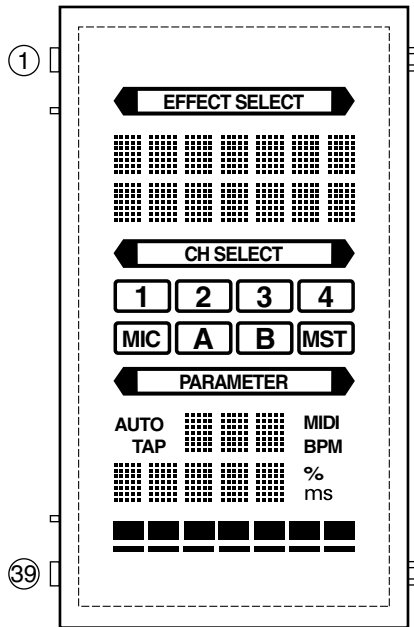
No.	Pin Name	I/O	Pin Function
1	RST	I	Reset input The device enters a low power mode when low.
2	M/S	I	Master/Slave mode input
3	LRCK	I/O	LR clock input/output
4	SCLK	I/O	Serial clock input/output
5	MCLK	I	Master clock input
6	VD	I	Digital power input
7	GND	I	Ground input Must be connected to analog ground.
8	VL	I	Logic power input
9	SDOUT	O	Serial audio data output
10	MDIV	I	MCLK divider input
11	HPF	I	High-pass filter enable input
12	I ² S/LJ	I	Serial audio interface format select input
13	M0	I	Mode selection input
14	M1	I	
15	OVFL	O	Overflow output, open drain
16	AINL+	I	Differential left channel analog input
17	AINL-	I	
18	GND	I	Ground input Must be connected to analog ground.
19	VA	I	Analog power input
20	AINR-	I	Differential right channel analog input
21	AINR+	I	
22	VQ	O	Quiescent voltage output Filter connection for the internal quiescent reference voltage.
23	REF_GND	I	Reference ground input
24	FILT+	O	Positive voltage reference output

■ DEL1061 (PANEL 2 ASSY : V2101)

A

- FL Display

● Pin Arrangement



B

C

● Pin Connection

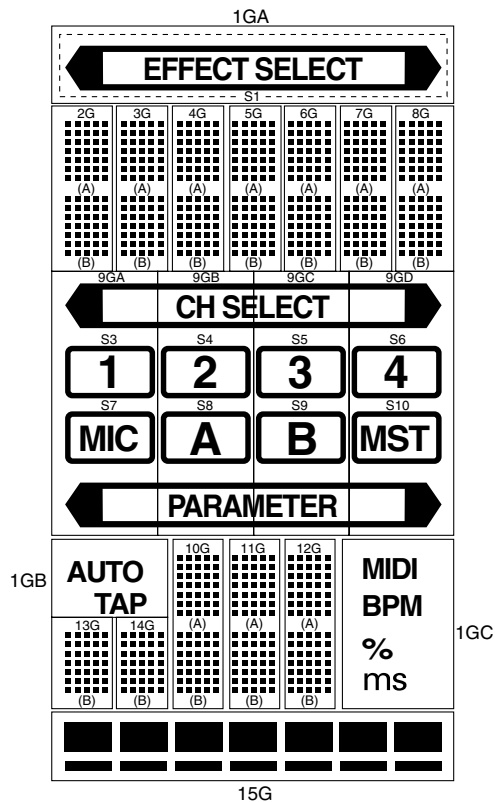
Pin No.	39	38	37	36	35	34	33	32	31	30
Connection	F-	NX	NX	NP	NP	LGND	PGND	VH	VDD	BK

Pin No.	29	28	27	26-6	5	4	3	2	1
Connection	LAT	CLK	SI	NX	NP	NP	NX	NX	F+

NOTE:

- 1) F-, F+ : Filament
- 2) NP : No pin
- 3) NX : No extend pin
- 4) DL : Datum Line
- 5) LGND : Logic GND pin
- 6) PGND : Power GND pin
- 7) VH : High Voltage Supply pin
- 8) VDD : Logic Voltage Supply pin
- 9) BK : Driver Output Blanking
- 10) LAT : Latch Control Input
- 11) CLK : Shift Register Clock
- 12) SI : Serial Data Input
- 13) Solder composition is Sn-3Ag-0.5Cu.

● Grid Assignment



D

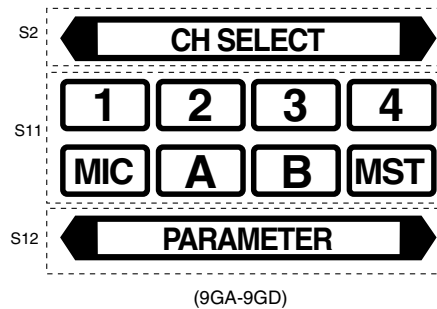
E

F

● Segment Designation

1-1	2-1	3-1	4-1	5-1
1-2	2-2	3-2	4-2	5-2
1-3	2-3	3-3	4-3	5-3
1-4	2-4	3-4	4-4	5-4
1-5	2-5	3-5	4-5	5-5
1-6	2-6	3-6	4-6	5-6
1-7	2-7	3-7	4-7	5-7

(2G-8G, 10G-14G)



B1	B2	B3	B4	B5	B6	B7
B8	B9	B10	B11	B12	B13	B14

(15G)

● Anode Connection

	1GA-C	2G-8G	9GA-D	10G-12G	13G, 14G	15G
P1	–	5-7B	S2	5-7B	5-7B	B1
P2	–	4-7B	S3	4-7B	4-7B	B2
P3	–	3-7B	S4	3-7B	3-7B	B3
P4	–	2-7B	S5	2-7B	2-7B	B4
P5	–	1-7B	S6	1-7B	1-7B	B5
P6	–	5-6B	S7	5-6B	5-6B	B6
P7	–	4-6B	S8	4-6B	4-6B	B7
P8	–	3-6B	S9	3-6B	3-6B	B8
P9	–	2-6B	S10	2-6B	2-6B	B9
P10	–	1-6B	S11	1-6B	1-6B	B10
P11	–	5-5B	S12	5-5B	5-5B	B11
P12	–	4-5B	–	4-5B	4-5B	B12
P13	–	3-5B	–	3-5B	3-5B	B13
P14	–	2-5B	–	2-5B	2-5B	B14
P15	–	1-5B	–	1-5B	1-5B	–
P16	–	5-4B	–	5-4B	5-4B	–
P17	–	4-4B	–	4-4B	4-4B	–
P18	–	3-4B	–	3-4B	3-4B	–
P19	–	2-4B	–	2-4B	2-4B	–
P20	–	1-4B	–	1-4B	1-4B	–
P21	–	5-3B	–	5-3B	5-3B	–
P22	–	4-3B	–	4-3B	4-3B	–
P23	–	3-3B	–	3-3B	3-3B	–
P24	–	2-3B	–	2-3B	2-3B	–
P25	–	1-3B	–	1-3B	1-3B	–
P26	–	5-2B	–	5-2B	5-2B	–
P27	–	4-2B	–	4-2B	4-2B	–
P28	–	3-2B	–	3-2B	3-2B	–
P29	–	22B	–	22B	22B	–
P30	–	1-2B	–	1-2B	1-2B	–
P31	–	5-1B	–	5-1B	5-1B	–
P32	–	4-1B	–	4-1B	4-1B	–
P33	–	3-1B	–	3-1B	3-1B	–
P34	ms	2-1B	–	2-1B	2-1B	–
P35	%	1-1B	–	1-1B	1-1B	–

● Anode Connection

A

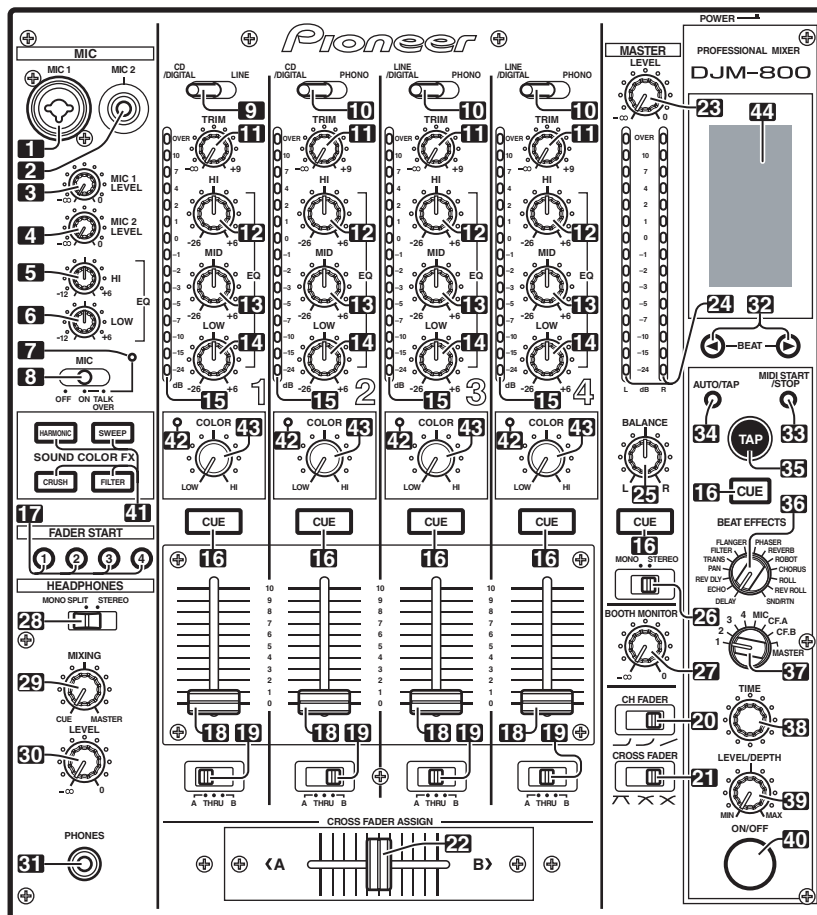
	1GA-C	2G-8G	9GA-D	10G-12G	13G, 14G	15G
P36	—	5-7A	—	5-7A	—	—
P37	—	4-7A	—	4-7A	—	—
P38	—	3-7A	—	3-7A	—	—
P39	—	2-7A	—	2-7A	—	—
P40	—	1-7A	—	1-7A	—	—
P41	—	5-6A	—	5-6A	—	—
P42	—	4-6A	—	4-6A	—	—
P43	—	3-6A	—	3-6A	—	—
P44	—	2-6A	—	2-6A	—	—
P45	—	1-6A	—	1-6A	—	—
P46	—	5-5A	—	5-5A	—	—
P47	—	4-5A	—	4-5A	—	—
P48	—	3-5A	—	3-5A	—	—
P49	—	2-5A	—	2-5A	—	—
P50	—	1-5A	—	1-5A	—	—
P51	—	5-4A	—	5-4A	—	—
P52	—	4-4A	—	4-4A	—	—
P53	—	3-4A	—	3-4A	—	—
P54	—	2-4A	—	2-4A	—	—
P55	—	1-4A	—	1-4A	—	—
P56	—	5-3A	—	5-3A	—	—
P57	—	4-3A	—	4-3A	—	—
P58	—	3-3A	—	3-3A	—	—
P59	—	2-3A	—	2-3A	—	—
P60	—	1-3A	—	1-3A	—	—
P61	—	5-2A	—	5-2A	—	—
P62	—	4-2A	—	4-2A	—	—
P63	—	3-2A	—	3-2A	—	—
P64	—	2-2A	—	2-2A	—	—
P65	—	1-2A	—	1-2A	—	—
P66	BPM	5-1A	—	5-1A	—	—
P67	MIDI	4-1A	—	4-1A	—	—
P68	TAP	3-1A	—	3-1A	—	—
P69	AUTO	2-1A	—	2-1A	—	—
P70	S1	1-1A	—	1-1A	—	—

E

F

8. PANEL FACILITES

OPERATION PANEL



NAMES AND FUNCTIONS OF PARTS (OPERATION PANEL_1)

Microphone input control section

- 1. Microphone 1 input jack (MIC 1)**
Use to connect a microphone with an XLR or phone plug.
- 2. Microphone 2 input jack (MIC 2)**
Use to connect a microphone with a phone plug.
- 3. Microphone 1 level control dial (MIC 1 LEVEL)**
Use to adjust the volume of microphone 1. (adjustable range $-\infty$ to 0 dB)
- 4. Microphone 2 level control dial (MIC 2 LEVEL)**
Use to adjust the volume of microphone 2. (adjustable range $-\infty$ to 0 dB)
- 5. Microphone equalizer high-range control dial (HI)**
Use to adjust the treble (high-range) frequencies of microphones 1 and 2. (adjustable range -12 dB to $+6$ dB)
- 6. Microphone equalizer low-range control dial (LOW)**
Use to adjust the bass (low-range) frequencies of microphones 1 and 2. (adjustable range -12 dB to $+6$ dB)
- 7. Microphone function indicator**
Lights when microphone is ON; flashes when TALK OVER is ON.

8. Microphone function selector switch (MIC)

OFF:

No microphone sound is output.

ON:

Microphone sound is output normally.

TALK OVER:

Microphone sound is output; when sound is input to a connected microphone, the TALK OVER function operates and all sound other than that from the microphone is attenuated by 20 dB.

Channel input control section

9. Channel 1 input selector switch

CD/DIGITAL:

Use to select CD input connectors (line level analog input) or DIGITAL input connectors.

LINE:

Use to select LINE input connectors.

10. Channel 2 to 4 input selector switches

CD/DIGITAL (channel 2) :

Use to select CD input connectors (line level analog input) or DIGITAL input connectors.

LINE/DIGITAL (channel 3 to 4):

Use to select LINE input connectors (line level analog input) or DIGITAL input connectors.

PHONO:

Use to select PHONO input connectors (analog turntable input).

NAMES AND FUNCTIONS OF PARTS (OPERATION PANEL_2)

11. TRIM adjust dial

Use to adjust the input level for each channel. (adjustable range: $-\infty$ to +9 dB, mid-position is about 0 dB)

12. Channel equalizer high-range adjust dial (HI)

Use to adjust the treble (high-range) frequency sound for each channel. (adjustable range: -26 dB to +6 dB)

13. Channel equalizer mid-range adjust dial (MID)

Use to adjust the mid-range frequency sound for each channel. (adjustable range: -26 dB to +6 dB)

14. Channel equalizer low-range adjust dial (LOW)

Use to adjust the bass (low-range) frequency sound for each channel. (adjustable range: -26 dB to +6 dB)

15. Channel level indicator

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

16. Headphone CUE buttons/indicators

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

Fader control section

17. Fader start button/indicator (FADER START 1 to 4)

Enables the fader start/back cue function for the channel to which a DJ CD player is connected. The button lights when set to ON. When enabled, the operation differs depending on the setting of the **CROSS FADER ASSIGN** switch.

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

18. Channel fader lever

Use to adjust sound volumes for each channel. (adjustable range: $-\infty$ to 0 dB)

Output is in accordance with the channel fader curve selected with the **CH FADER** curve switch.

19. CROSS FADER ASSIGN switch

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

A:

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

THRU:

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

B:

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

20. Channel fader curve switch (CH FADER)

This switch allows the user to select from three types of channel fader curve response. This setting is applied equally to channels 1 to 4.

- At the left setting, the curve operates to produce a rapid rise as the channel fader approaches its distant position.
- At the right setting, the curve operates to produce an even, neutral rise throughout the channel fader's movement.
- At the middle setting, an intermediate curve is produced, midway between the two curves noted above.

21. Cross fader curve switch (CROSS FADER)

This switch allows the user to select from three types of cross fader curve response.

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

22. Cross fader lever

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

Master output control section

23. Master output level dial (MASTER LEVEL)

Use to adjust the master output level. (adjustable range: $-\infty$ to 0 dB)

The master output is the sum combination of the sound from channels set to [THRU] with the **CROSS FADER ASSIGN** switch; the signal passed through the cross fader; and the signals from microphone 1 and microphone 2 (if the effect selector is set to [SND/RTN], the **RETURN** input is also added).

24. Master level indicator (MASTER L, R)

These segment indicators display the output level from L and R channels. The indicators have a two-second peak hold.

25. Master balance dial (BALANCE)

Use to adjust the L/R channel balance for master output, booth monitor output, recording output, and digital output.

26. Master output STEREO/MONO selector switch

When set to [MONO], the master output becomes a monaural combination of L+R.

Booth monitor control section

27. BOOTH MONITOR level control dial

This dial is used to adjust the booth monitor output volume. The volume can be adjusted independently of the master output level. (adjustable range: $-\infty$ to 0 dB)

Headphones output section

28. Headphones output switch (MONO SPLIT/STEREO)

MONO SPLIT:

The audio source selected with the headphone **CUE** button is output to the L channel, and the master audio is output to the R channel (only when headphone **CUE** button is used to select [MASTER]).

STEREO:

The audio source selected with the headphone **CUE** button is output in stereo.

29. Headphones mixing dial (MIXING)

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

NAMES AND FUNCTIONS OF PARTS (OPERATION PANEL_3)

30. Headphones level adjust dial (LEVEL)

Adjusts the output level of the headphones jack. (adjustable range: $-\infty$ to 0 dB)

31. Headphones jack (PHONES)

BPM counter section

32. Beat select buttons (BEAT)

(Beat up): Doubles the calculated BPM.

(Beat down): Halves the calculated BPM.

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

33. MIDI start/stop button (MIDI START/STOP)

Use to alternate the MIDI control function between start and stop.

When this control is enabled, the [MIDI START (STOP)] message appears for two seconds on the display.

MIDI SNAP SHOT:

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

34. BPM measuring mode button (AUTO/TAP)

Each time the button is pressed, the BPM measuring mode alternates between [AUTO] and [TAP].

AUTO:

The display's [AUTO] indicator lights, and the BPM is automatically calculated.

TAP:

The display's [TAP] indicator lights, and the BPM is calculated manually by TAP button input.

35. TAP button

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

Beat effect section

36. Effect selector (DELAY, ECHO, REV DLY (REVERSE DELAY), PAN, TRANS, FILTER, FLANGER, PHASER, REVERB, ROBOT (ROBOT VOCODER), CHORUS, ROLL, REV ROLL (REVERSE ROLL), SND/RTN (SEND/RETURN))

Use to select desired type of effect.

When using an external effector connected to the SEND and RETURN connectors, set to the [SND/RTN] position.

37. Effect channel selector (1, 2, 3, 4, MIC, CF.A, CF.B, MASTER)

Use to select the channel to which effects are applied.

When [MIC] is selected, effects are applied to both microphone 1 and microphone 2.

38. Effect parameter 1 dial [TIME (PARAMETER 1)]

Adjusts time parameter for selected effect.

If the TIME dial is rotated while depressing the TAP button, direct BPM can be set manually.

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

39. Effect parameter 2 dial [LEVEL/DEPTH (PARAMETER 2)]

Adjusts quantitative parameters for selected effect.

40. Effect button/indicator (ON/OFF)

Sets selected effect ON/OFF. Whenever power is first turned ON, effects default to OFF and the button is lighted. When effects are enabled (ON), the button flashes.

Sound-color effects section

41. Sound-color effect select buttons/indicators (HARMONIC, SWEEP, FILTER, CRUSH)

Use to select and enable/disable sound-color effects.

The button for the selected function will flash, and the effect will be applied equally to channels 1 to 4. When the flashing button is pressed, it lights steadily and the effect turns OFF. When power is first turned on, all effects default to OFF (indicators are lighted).

42. Harmonic Indicators

When [HARMONIC] is turned ON, these indicators light and the color of the indicator changes in accord with the status of the effect.

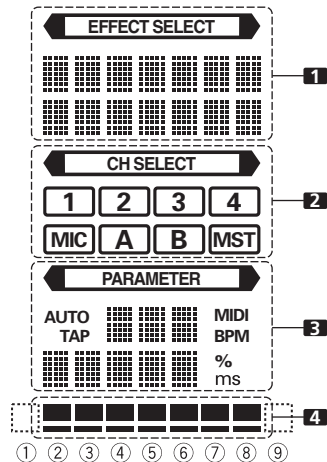
43. Sound-color effect parameter dial (COLOR)

Used to adjust quantitative parameters for the effect selected with the sound-color effect selector buttons.

44. Display

NAMES AND FUNCTIONS OF PARTS (DISPLAY SECTION)

DISPLAY SECTION



1. Effects display section

The <EFFECT SELECT> indicator lights constantly, and the alpha-numeric display (seven characters in two lines) indicates the name of the effect as shown below. Also, when one of the change operations is performed as noted in the table, the corresponding characters are displayed for two seconds, after which the display returns to the original effect name.

Switching Operation	Upper/ Lower Row	Display
At MIDI start	Upper	MIDI
	Lower	START
At MIDI stop	Upper	MIDI
	Lower	STOP
MIDI snapshot	Upper	SNAP
	Lower	SHOT

2. Channel select display section

The <CH SELECT> indicator lights constantly, and a red frame lights around the number position corresponding to the chosen effect channel selector.

3. Parameter display section

<PARAMETER>:

The <PARAMETER> indicator lights constantly.

AUTO/TAP:

[AUTO] lights when the BPM measuring mode is set to AUTO, and [TAP] lights when the BPM measuring mode is set to manual (TAP).

BPM counter display (3 digits):

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

BPM:

Lights constantly.

MIDI:

Displays the MIDI start/stop status.

Indicator lights after MIDI start command has been sent.

Indicator goes out after MIDI stop command has been sent.

Parameter 1 display (5 digits):

Displays parameters designated for each effect. When the beat select buttons (BEAT ◀, ▶) are pressed, the corresponding beat multiple change is displayed for one second. If the beat select buttons (BEAT ◀, ▶) are used to designate a value outside the parameter range, the current number will flash but will not change.

Unit Display (%/ms):

Lights in accordance with the unit used for each effect.

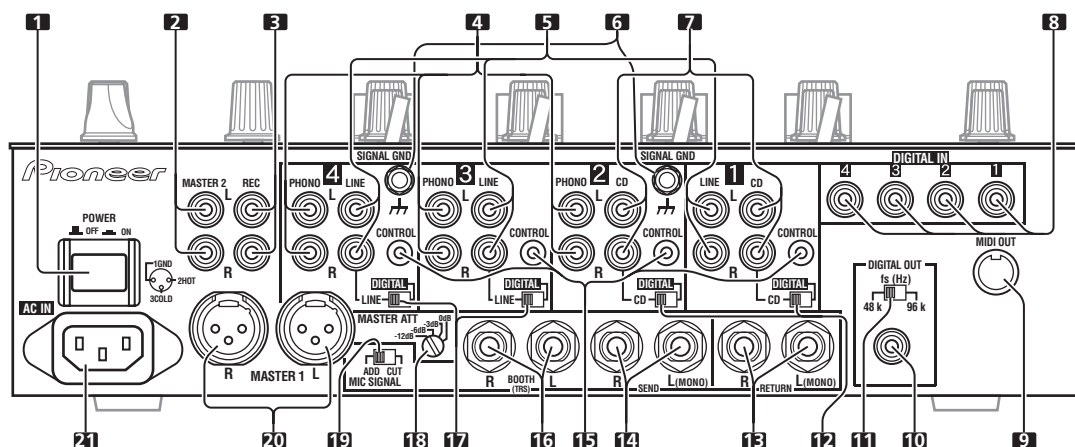
4. Beat display section

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

Effect selector	Effect display		Parameter display				Beat display								
	Upper/ Lower	Effect name	Minimum value	Maximum value	Default	Unit									
DELAY	Upper	DELAY	1	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1
	Lower														
ECHO	Upper	ECHO	1	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1
	Lower														
REV DLY	Upper	REVERSE	10	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1
	Lower	DELAY													
PAN	Upper	PAN	10	16 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
	Lower														
TRANS	Upper	TRANS	10	16 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
	Lower														
FILTER	Upper	FILTER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
	Lower														
FLANGER	Upper	FLANGER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
	Lower														
PHASER	Upper	PHASER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
	Lower														
REVERB	Upper	REVERB	1	100	50	%	10	20	30	40	50	60	70	80	90
	Lower														
ROBOT	Upper	ROBOT	-100	100	0	%	—	-100	-66	-50	0	26	50	100	—
	Lower														
CHORUS	Upper	CHORUS	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1
	Lower														
ROLL	Upper	ROLL	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
	Lower														
REV ROLL	Upper	REVERSE	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1
	Lower	ROLL													
SND/RTN	Upper	SEND/													
	Lower	RETURN													

Shaded items are not displayed.

CONNECTION PANEL



1. POWER switch

2. MASTER 2 output connectors

RCA type unbalanced output.

3. Recording output connectors (REC)

RCA type output connectors for recording.

4. PHONO input connectors

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

5. LINE input connectors

RCA type line level input connectors.

Use to connect a cassette deck or other line level output component.

6. Signal grounding terminals (SIGNAL GND)

Use to connect ground wires from analog players. This is not a safety grounding terminal.

7. CD input connectors

RCA type line level input connectors.

Use to connect a DJ CD player or other line level output component.

8. DIGITAL IN connectors

RCA type digital coaxial input connectors.

Use to connect to DJ CD player or other digital coaxial output connectors.

9. MIDI OUT connector

DIN type output connector.

Use to connect to other MIDI component.

10. DIGITAL OUT connector

RCA type digital coaxial output connector.

Master audio digital output.

11. Sampling frequency selector switch (fs 48 k/96 k)

Use to set the sampling frequency of the digital output to 96 kHz/24-bit or 48 kHz/24-bit.

12. DIGITAL/CD input selector switches

Use to select either analog input (CD) or digital input (DIGITAL IN).

13. RETURN connectors

Ø6.3 mm phone-type input connectors.

Use to connect to the output connectors of external effectors or similar components.

When the L channel only is connected, the L channel input is simultaneously input to the R channel.

14. SEND output connectors

Ø6.3 mm phone-type output connectors.

Use to connect to the input connectors of external effectors or other similar components. When the L channel only is connected, a L+R monaural signal is output.

15. CONTROL connectors

Ø3.5 mm mini-connector. Use to connect to the control connector of a Pioneer DJ CD player.

When the connectors are connected, the DJM-800's fader can be used to perform start/stop on the DJ CD player.

16. BOOTH monitor output connectors

Ø6.3 mm phone-type booth monitor output connectors.

The sound level from these connectors is controlled independently by the **BOOTH MONITOR** level dial, regardless of the position of the **MASTER LEVEL** dial. (These connectors are TRS output, so they support both balanced and unbalanced outputs.)

17. DIGITAL/LINE input selector switches

Use to select either analog input (LINE) or digital input (DIGITAL IN).

18. Master output attenuator switch (MASTER ATT)

Use to attenuate the level of the master 1 and master 2 outputs. Selectable values are 0 dB, -3 dB, -6 dB and -12 dB.

19. Microphone signal switch (MIC SIGNAL ADD/CUT)

When set to the [ADD] position, the sounds from microphone 1 and microphone 2 are output to the **BOOTH** monitor output connectors. When set to the [CUT] position, the sounds from microphone 1 and microphone 2 are not output to the **BOOTH** monitor output connectors.

20. MASTER 1 output connectors

XLR type (male) balanced output.

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

21. Power inlet (AC IN)

Use the accessory power cord to connect to an AC power outlet of the proper voltage.

1234

9. ROTARY VOLUME KIT (DJC-800RV)

9.1 PACKING SECTION

A

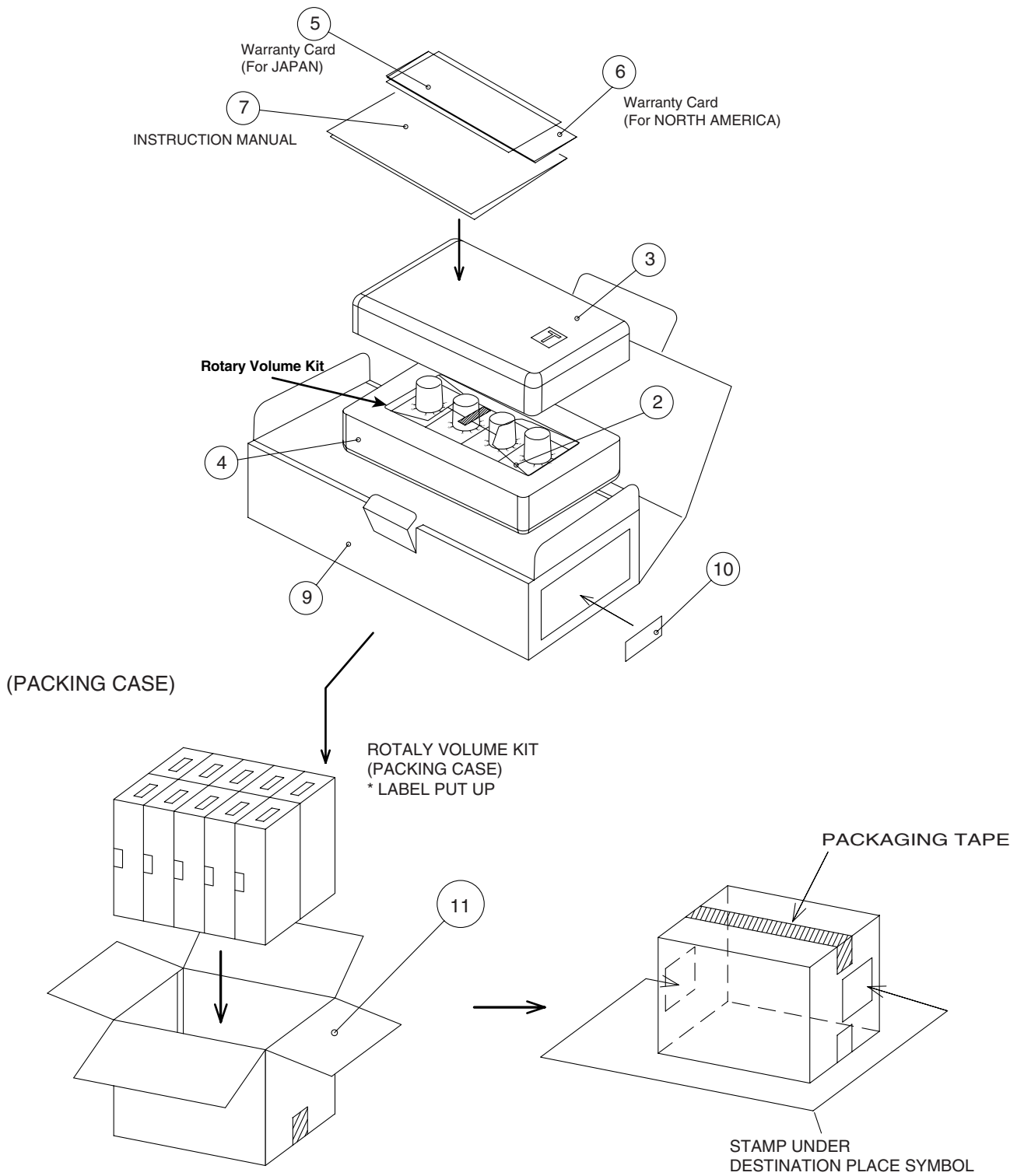
B

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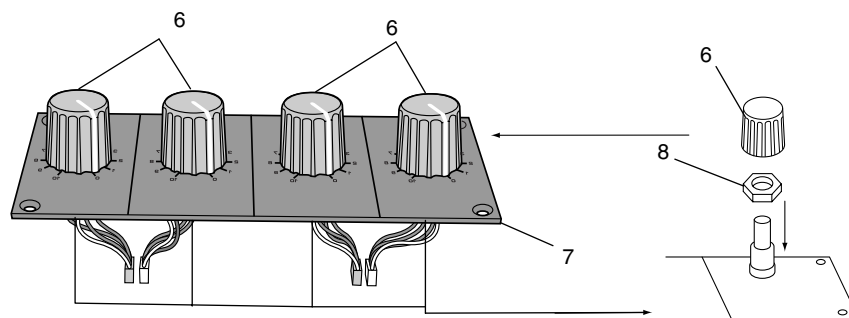


• PACKING SECTION parts List

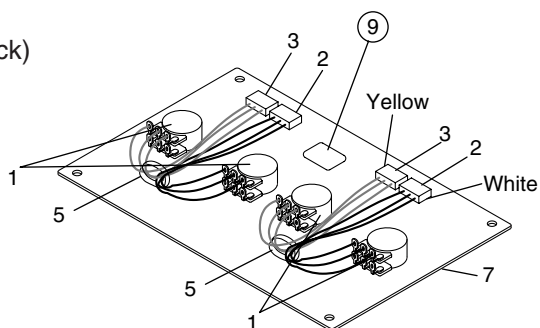
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	• • • •		7	Instruction Manual	DRC1280
2	Mirror Mat (300*230)	DHL1155	8	• • • •	
3	TOP Pad	DHA1708	9	Packing Case	DHG2615
4	BOTTOM Pad	DHA1709	NSP 10	Serial Label (UPC)	DRW2311
NSP 5	Warranty Card (Japan)	DRY1235	11	Master Carton	DHG2616
NSP 6	Warranty Card(North America)	ARY7043			

9.2 EXTERIOR SECTION

(Front)



(Back)



• EXTERIOR SECTION parts List

Mark No.	Description	Part No.
1	Potentiometer	DCS1088
2	Connector Assy (W)	DKP3765
3	Connector Assy (Y)	DKP3766
4	• • • •	
5	Binder (SKB-90BK)	ZCA-SKB90BK
6	VR Knob (ISO)	DAA1165
7	CHF Panel (RV)	DAH2432
8	Flange Nut M7	DBN1011
NSP 9	CE Mark Label (UP)	RRW1221
10	• • • •	

1 2 3 4

9.3 SCHEMATIC DIAGRAM

A DJC-800RV/ZXJ/WL5

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

B

CH 1 / CH 3 FADER

TO PANEL
(CN1705)
(CN1707)

C CN3 & C CN1

1 GREF
2 CF
3 V3R3A
4 NC



C

CH 2 / CH 4 FADER

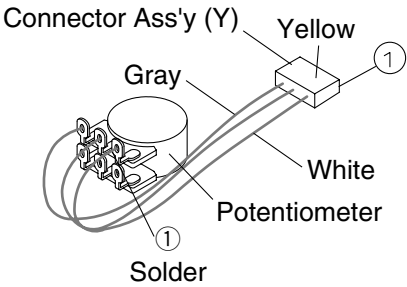
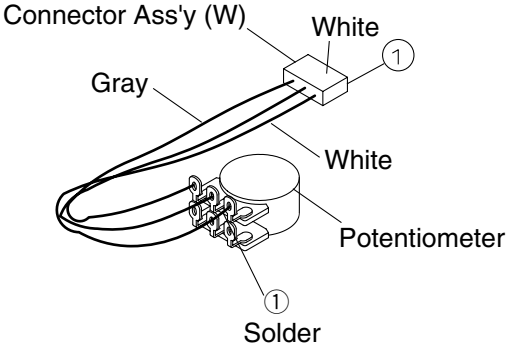
TO PANEL
(CN1706)
(CN1708)

C CN4 & C CN2

1 GREF
2 CF
3 V3R3A
4 NC



E



F

⚠ WARNING

Do not attempt to install this kit by your-self!

This kit requires professional expertise and must be installed by a specially trained technician.

For details, inquire at your nearest authorized Pioneer service center. (Consult your retail dealer for more information regarding authorized Pioneer service centers.)

NOTE:

Installation of this kit requires specialized professional training and expertise. Consult your nearest authorized Pioneer service center for installation (installation fee must be paid by user).

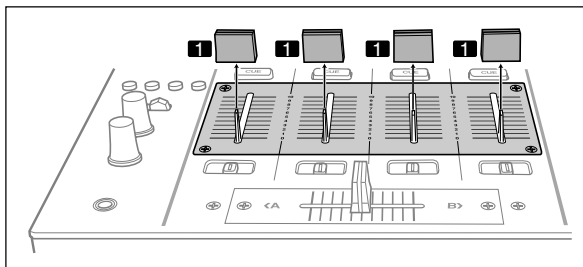
Attempting to install this kit by yourself can be very dangerous, and may result not only in damage to the unit, but fire or electrical shock. Pioneer can accept no liability for injuries or damages resulting from installations or modifications performed by the customer.

To the Installing Service Personnel

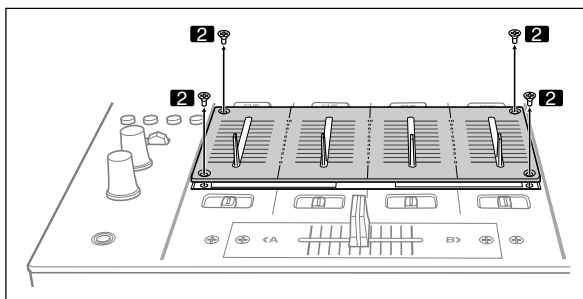
Install this panel unit as depicted in the accompanying illustrations and instructions.

- Before beginning work, be sure to disconnect the power cord from its supply outlet.

1. Pull off the 4 fader slider knobs.

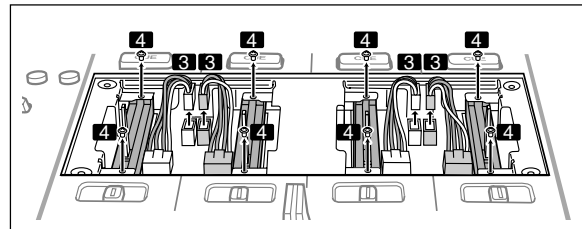


2. Remove the 4 screws at the four corners of the fader panel, and remove the panel.



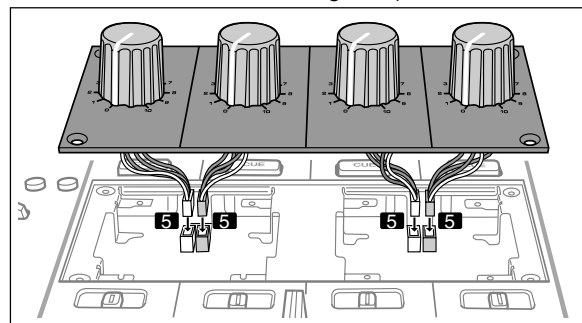
3. Disconnect the 4 cable connectors.

4. Remove the 2 mounting screws for each slide volume (total 8 screws), and remove the 4 slide volumes.



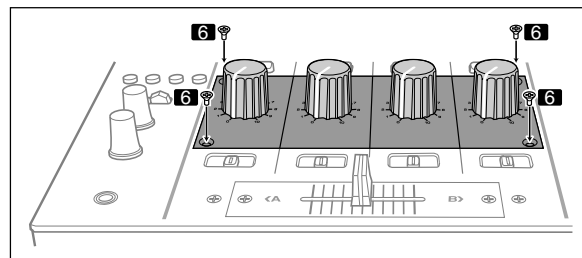
5. Connect the 4 cable connectors for the fader units to be installed (total 4).

- Insert the connectors securely, taking care not to mistake the order in which the connectors are attached (connectors for odd-numbered channels are white, while connectors for even-numbered channels are yellow. Attach connectors of the same color together).



6. Insert the Fader panel and fasten with the four corner screws (total 4).

- Take care not to allow any wiring to be caught under the panel.



- Carefully store all removed parts (lever knobs (4), panel (1), slide volumes (4), and mounting screws (8)).

Jigs list

A

Jig No.	Jig Name	Remarks
GGF 1490	RS-232C jig	used for firmware download
djm800-xxxx. mot	Program up date file	used for firmware download

B

C

D

E

F