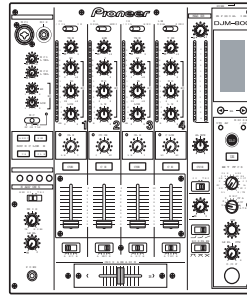


# Service Manual



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".

# 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.

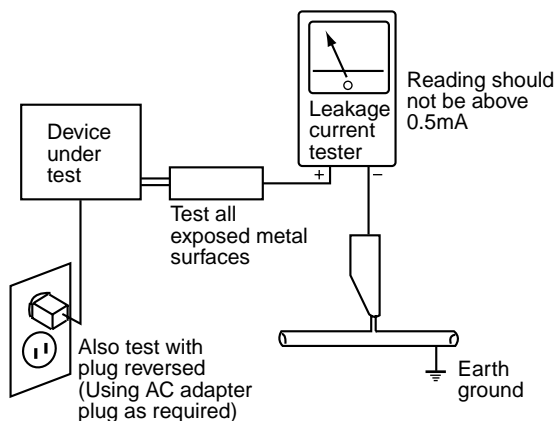
## (FOR USA MODEL ONLY)

### 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  $\Delta$  on the schematics and on the parts list in this Service Manual.

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

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

## [Important Check Points for Good Servicing]

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

### 1. Product safety



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

- ① Use specified parts for repair.

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

- ② Do not perform modifications without proper instructions.

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

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

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

- ④ Make sure the screws are tightly fastened.

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

- ⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

- ⑩ Safe environment should be secured during servicing.

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

### 2. Adjustments



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

### 3. Lubricants, Glues, and Replacement parts



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

### 4. Cleaning



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

### 5. Shipping mode and Shipping screws



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

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# 1. SPECIFICATIONS

## 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

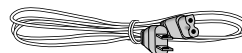
### 4. Accessories

Operating Instructions	1
Power cord	1
Warranty card	1

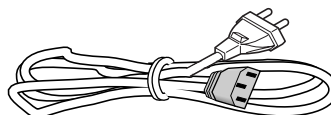
Specifications and appearance are subject to change without notice.

### ● Accessories

Power cord  
(KUCXJ : DDG1028)



(WYXJ5, TLXJ : ADG7062)

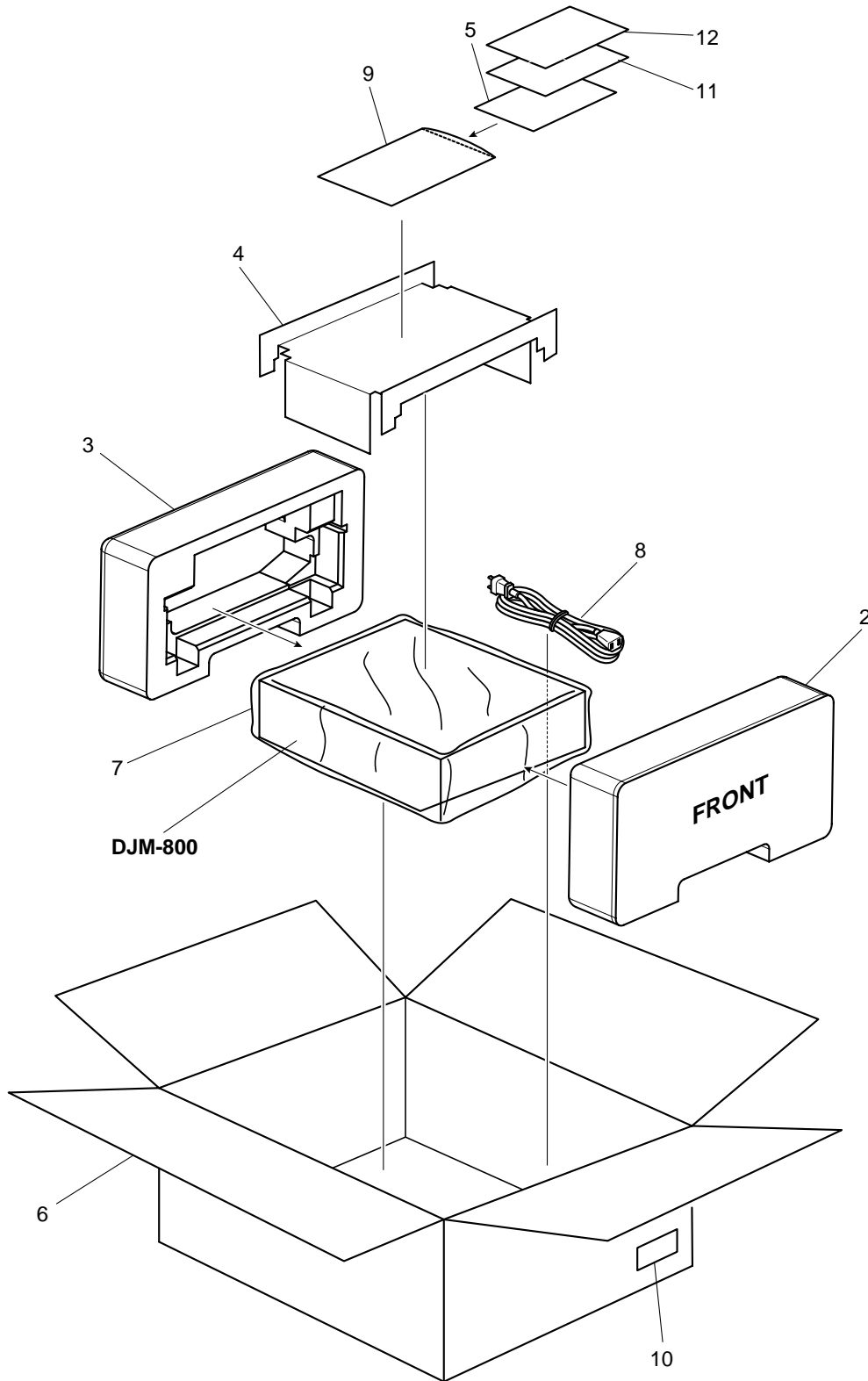


Operating instructions  
Warranty card (KUCXJ only)

## 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  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
  - Screws adjacent to  $\blacktriangledown$  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**

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
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

# 2.2 EXTERIOR SECTION

1

2

3

4

A

B

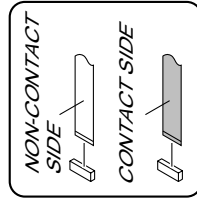
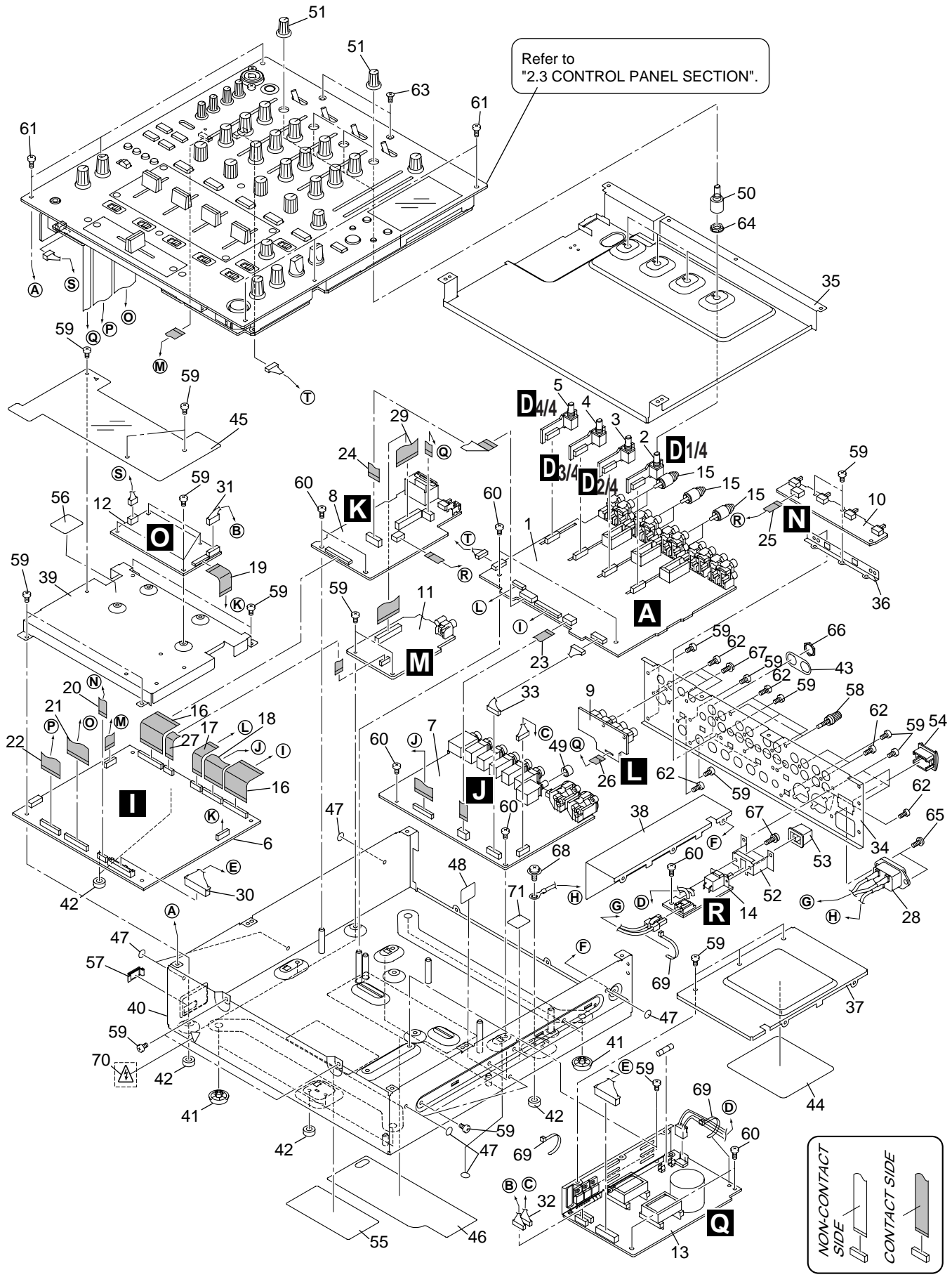
C

D

E

F

Refer to "2.3 CONTROL PANEL SECTION".



1

2

3

4



5 6 7 8

**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	41	Leg Assy	REC-434
6	DSP Assy	DWX2534	NSP 42	Spacer	AEB7092
7	OUTPUT Assy	DWX2544	43	PHONE Spacer	DEC2914
8	DIGIC Assy	DWX2547	44	Barrier A	DEC2915
9	DIGIA Assy	DWX2555	45	Styling Sheet	DEC2917
10	SLSW Assy	DWX2536	46	Bottom Cover	DEC2918
11	DIGIB Assy	DWX2546	47	Blind Label	DEC2928
12	HPAMP Assy	DWX2556	48	Barrier B	DEC2944
⚠ 13	POWER SUPPLY Unit	DWR1433	49	Select Knob (S)	DAA1166
14	ACSW Assy	DWX2545	50	Extension Shaft	DNK4691
15	Short Pin Plug	AKM7008	51	Rotary SW Knob S	DAA1204
16	Flexible Cable (31P)	DDD1316	52	Bracket PSW	DNF1730
17	Flexible Cable (12P)	DDD1317	53	POWER Knob	DAC2306
18	Flexible Cable (25P)	DDD1318	54	POWER Knob Guard	DNK4534
19	Flexible Cable (16P)	DDD1319	NSP 55	LABEL	See Contrast table (2)
20	Flexible Cable (10P)	DDD1321	56	CAUTION Label	DRW2312
21	Flexible Cable (30P)	DDD1322	57	Blind Cap	DNK4218
22	Flexible Cable (25P)	DDD1323	58	Terminal Screw	AKE-031-0
23	Flexible Cable (7P)	DDD1326	59	Screw	BBZ30P060FTB
24	Flexible Cable (12P)	DDD1327	60	Screw	BBZ30P080FTC
25	Flexible Cable (6P)	DDD1328	61	Screw	BCZ30P080FTB
26	Flexible Cable (7P)	DDD1329	62	Screw	BPZ30P080FTB
27	Flexible Cable (10P)	DDD1333	63	Screw	CCZ30P060FTB
⚠ 28	AC Inlet Assy	See Contrast table (2)	64	Flange Nut M7	DBN1011
29	Flexible Cable (24P)	DDD1330	65	Screw	IBZ30P080FTB
30	Connector Assy(10P-12P)	DKP3763	66	Nut	NKX2FTC
31	Connector Assy	PF05EE-S22	67	Screw	PMH30P100FTB
32	Connector Assy	PF05EE4S32	68	Screw	PMH40P080FTC
33	Connector Assy	PF06EE-D12	69	Binder (SKB-90BK)	ZCA-SKB90BK
NSP 34	Rear Panel	See Contrast table (2)	NSP 70	Caution LABEL	See Contrast table (2)
35	Bracket TRIM	DNF1728	NSP 71	Earth LABEL	See Contrast table (2)
36	Bracket SSW	DNF1729			

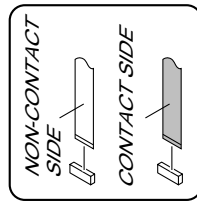
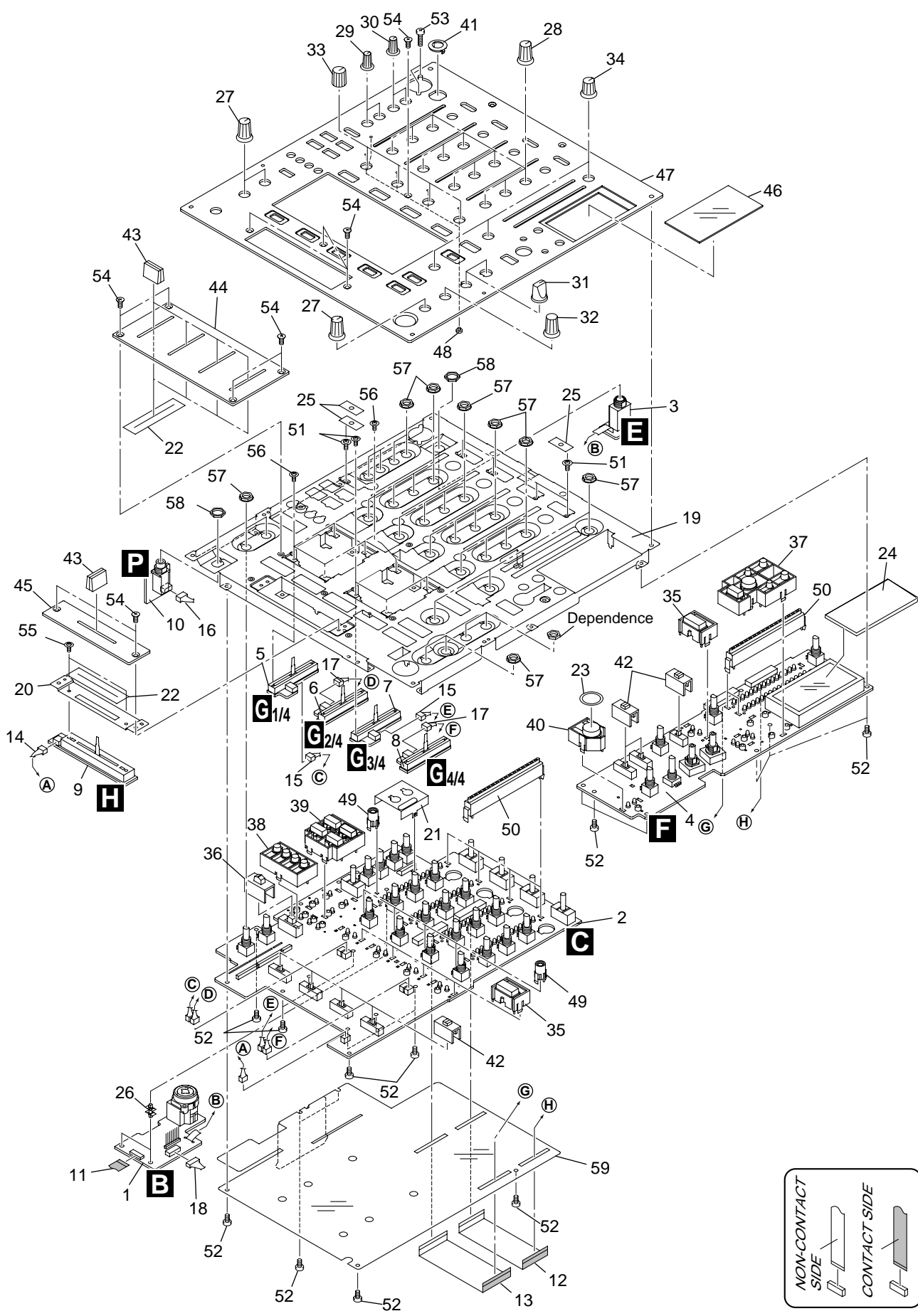
**(2) CONTRAST TABLE**

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

A  
B  
C  
D  
E  
F



5  
**CONTROL PANEL SECTION PARTS LIST**

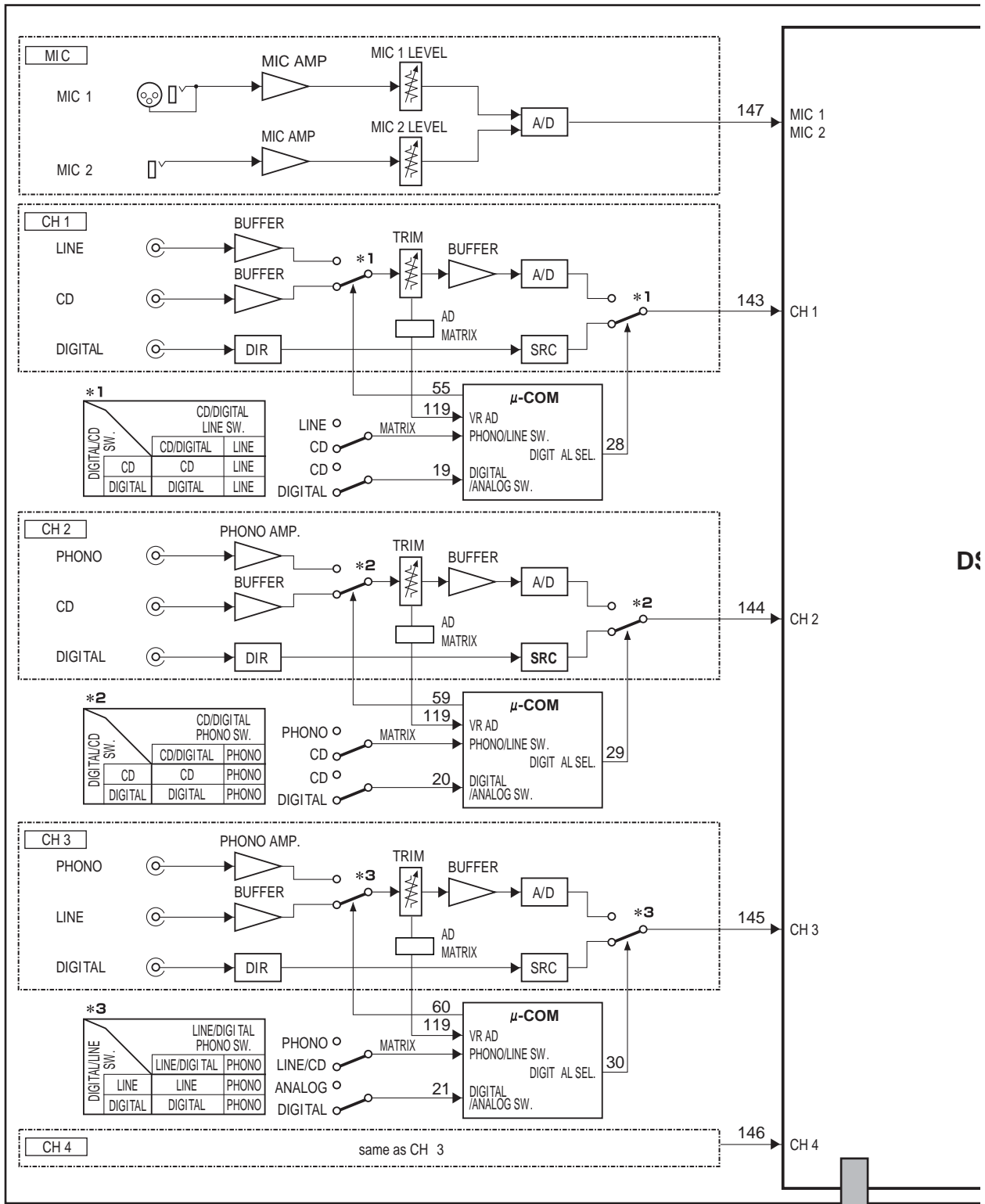
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	MIC 1 Assy	DWX2542
2	PANEL 1 Assy	DWX2552
3	MIC 2 Assy	DWX2543
4	PANEL 2 Assy	DWX2554
5	CHFD 1 Assy	DWX2537
6	CHFD 2 Assy	DWX2538
7	CHFD 3 Assy	DWX2539
8	CHFD 4 Assy	DWX2540
9	CRSFD Assy	DWX2541
10	HP JACK Assy	DWX2553
11	Flexible Cable (12P)	DDD1320
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

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
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

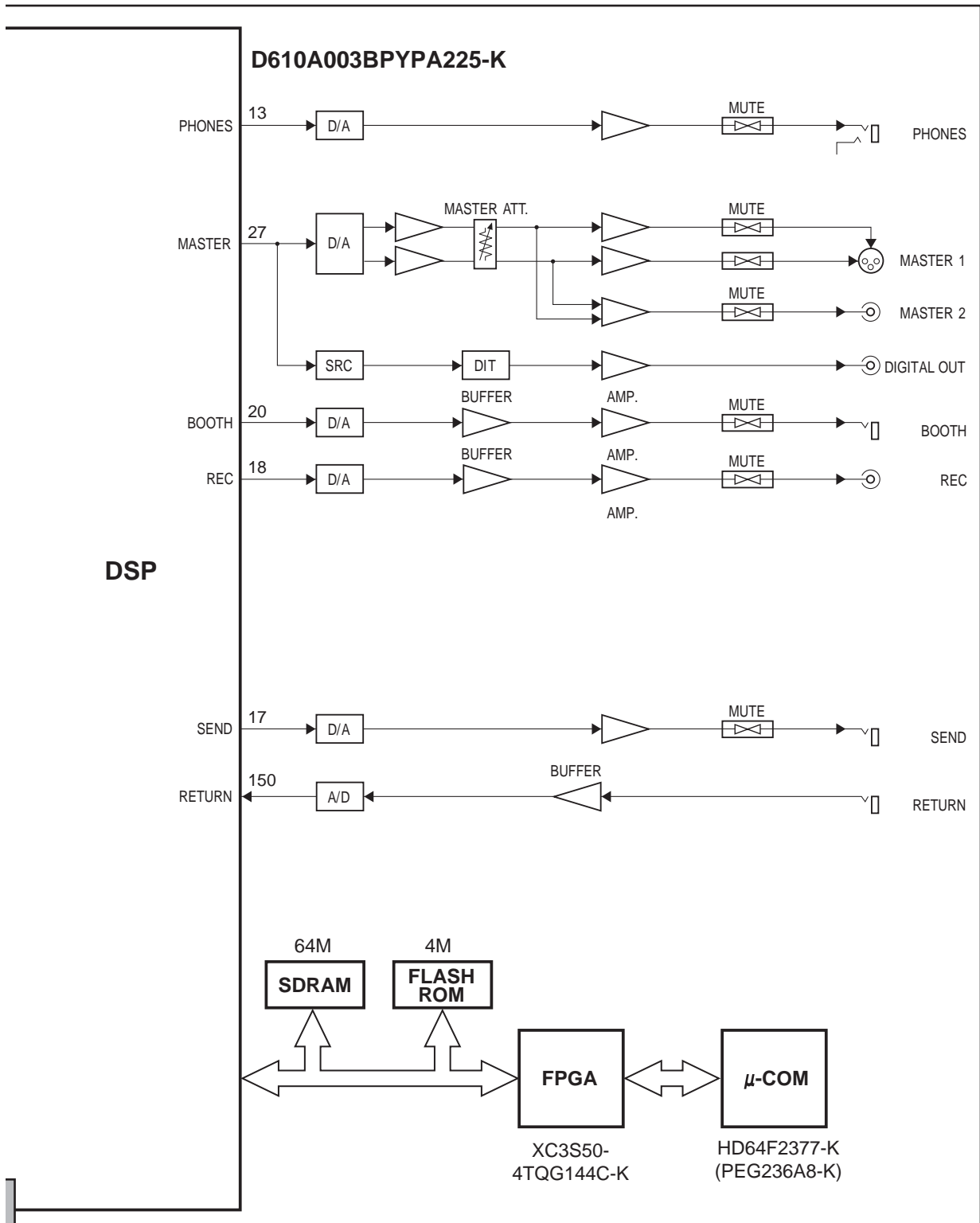
# 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM


## 3.1 OVERALL BLOCK DIAGRAM\_1

### BLOCK DIAGRAM



To DSP BLOCK DIAGRAM

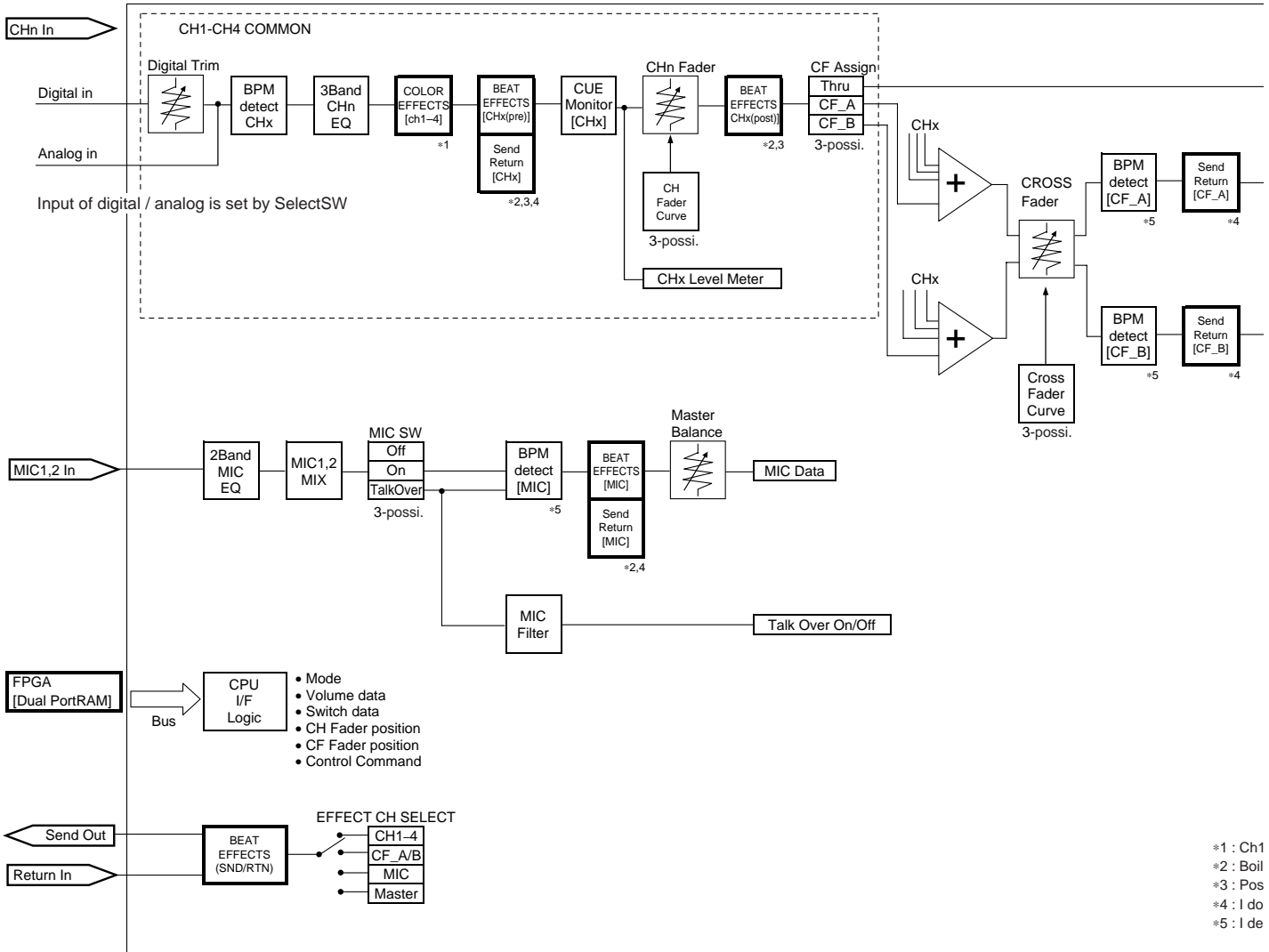


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
-  : The power supply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

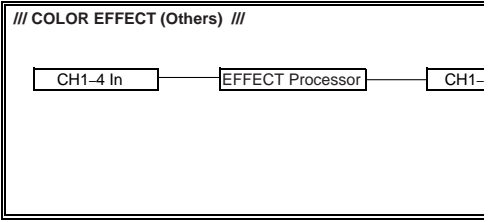
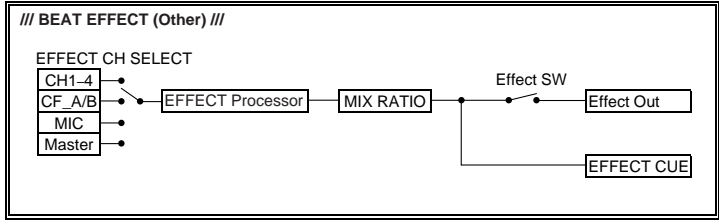
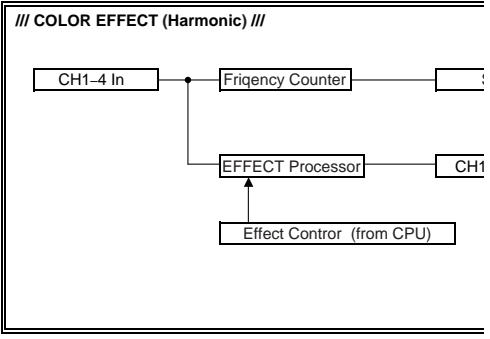
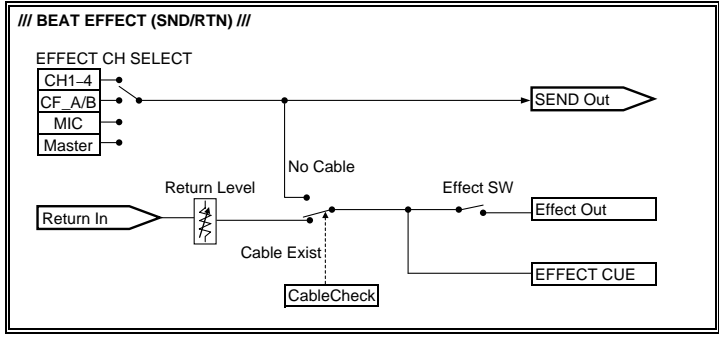
# 3.2 OVERALL BLOCK DIAGRAM\_2

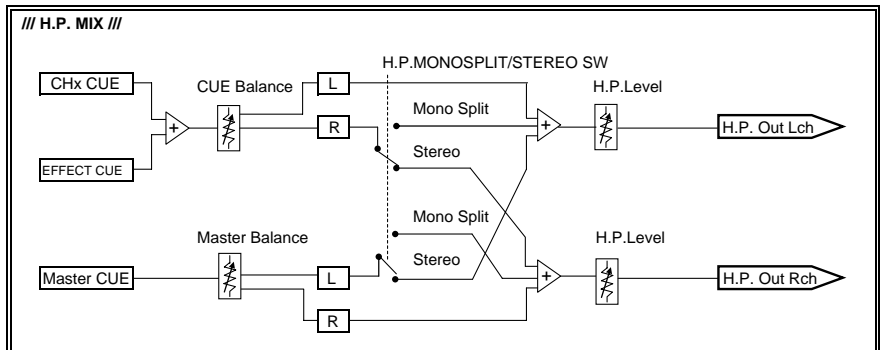
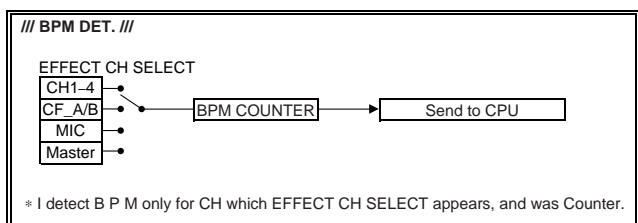
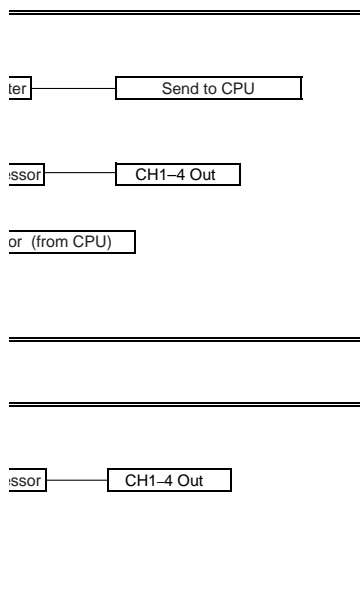
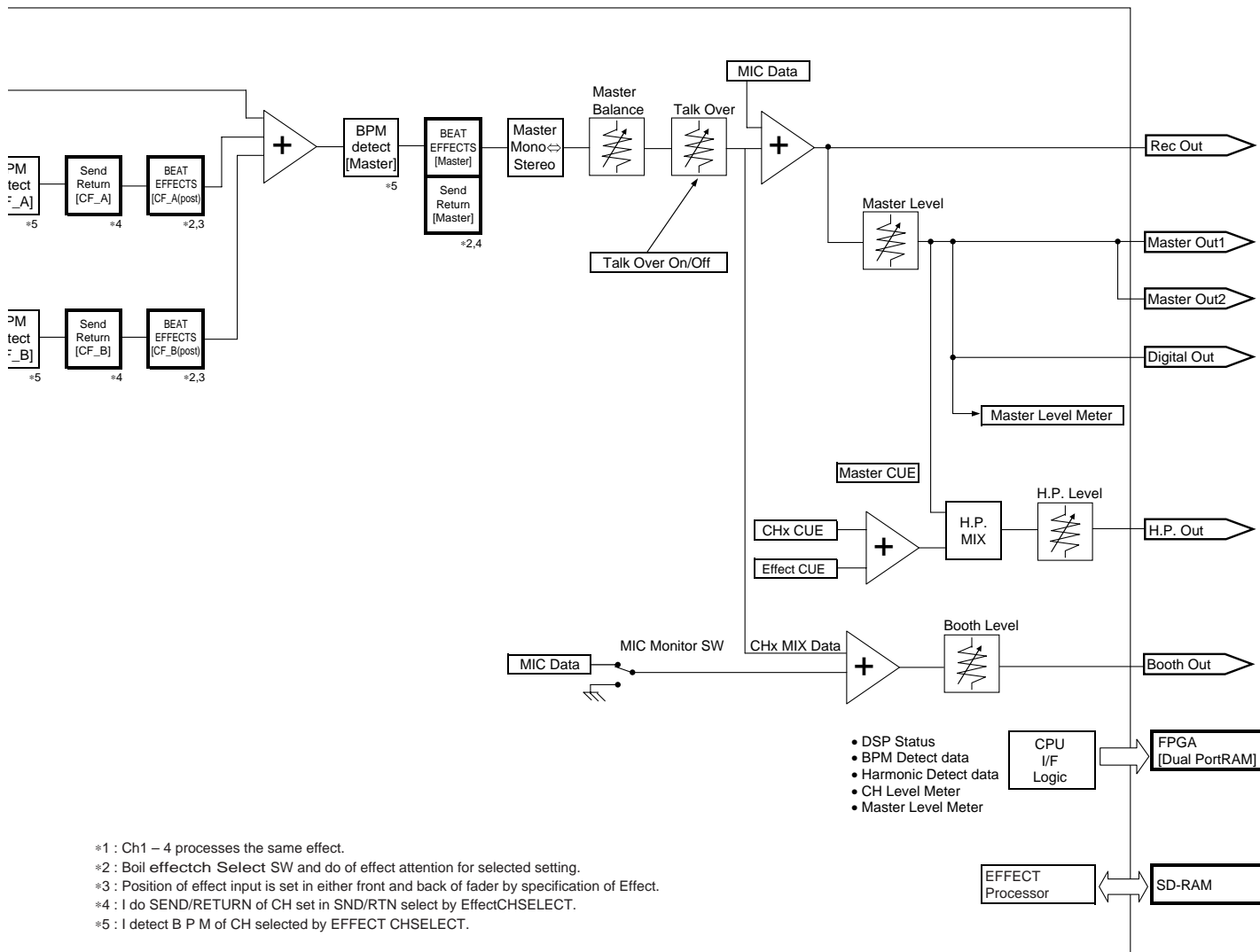
## DSP BLOCK DIAGRAM

DJM-800 Audio DSP

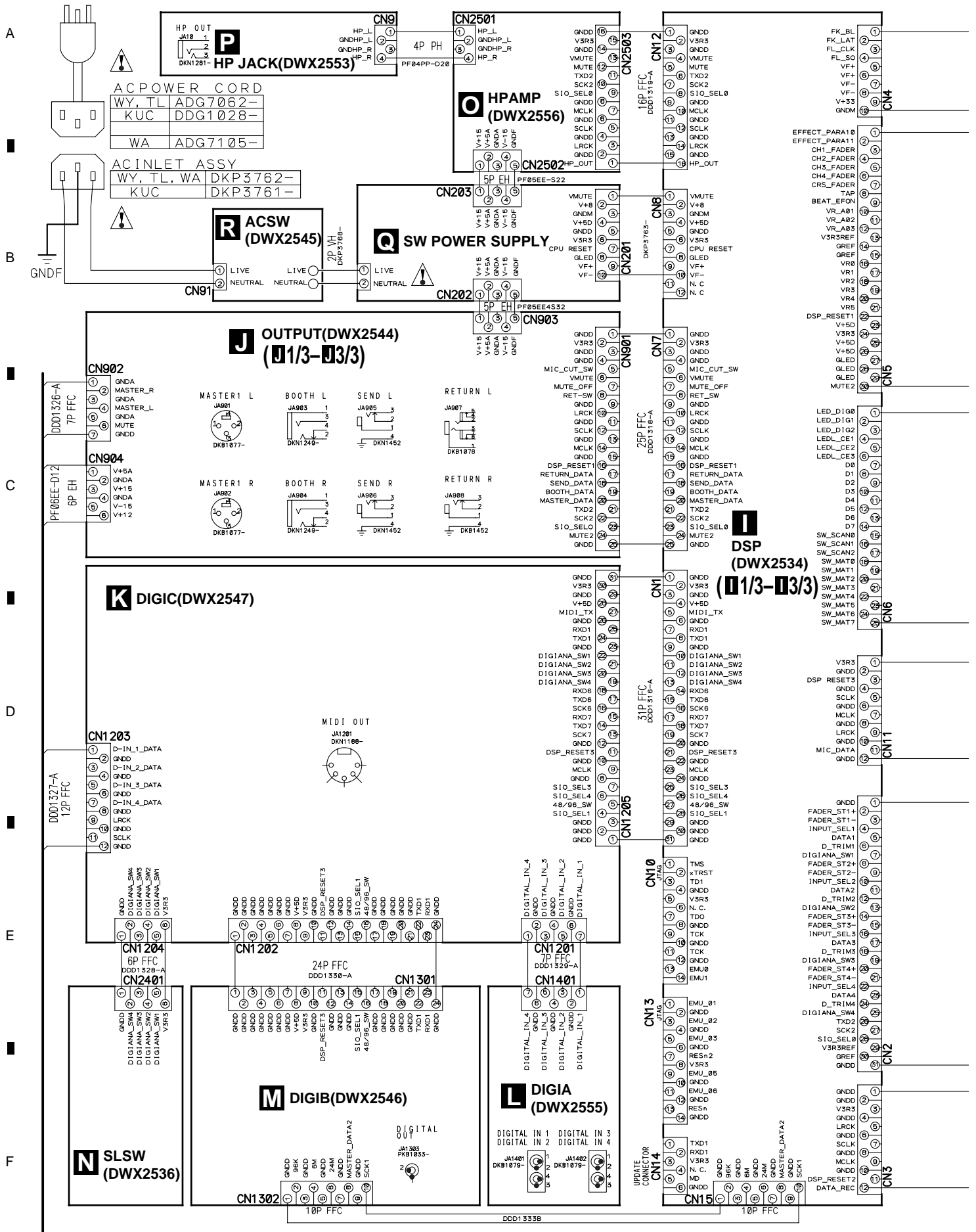


- \*1 : Ch1
- \*2 : Boil
- \*3 : Pos
- \*4 : I do
- \*5 : I de

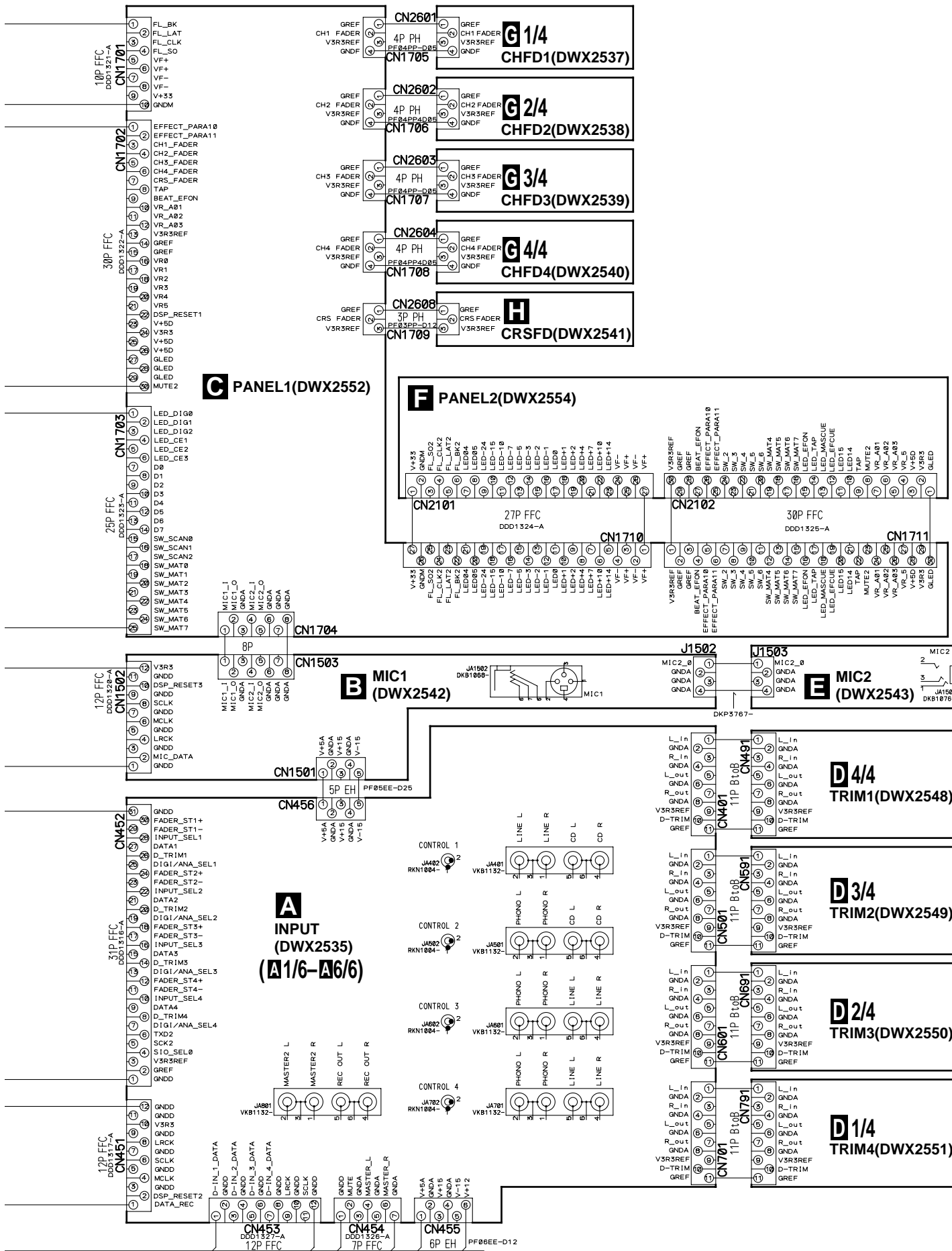




# 3.3 OVERALL WIRING DIAGRAM





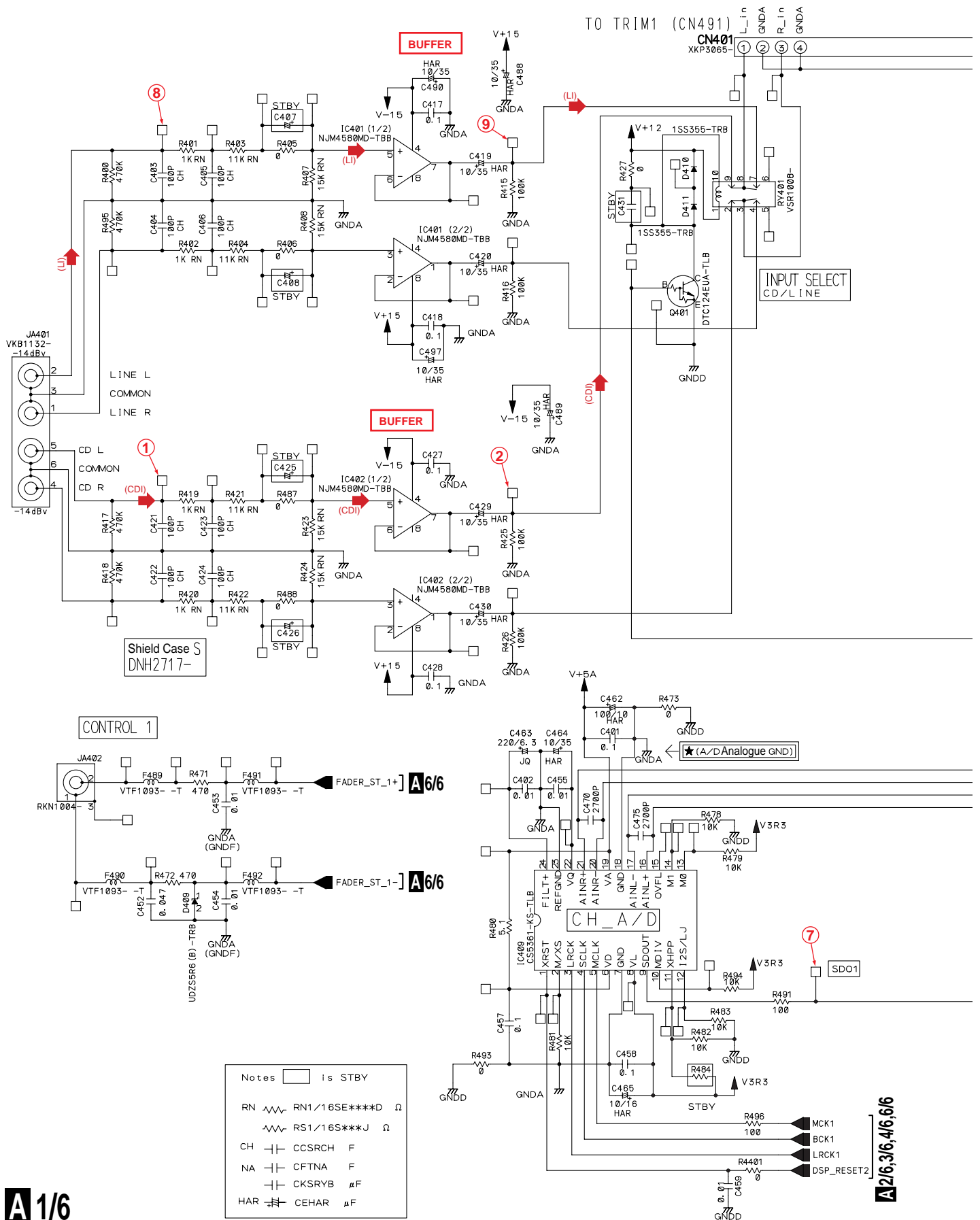


A  
B  
C  
D  
E  
F

# 3.4 INPUT ASSY (1/6)

## A 1/6 INPUT ASSY(DWX2535)

D 4/4 CN491

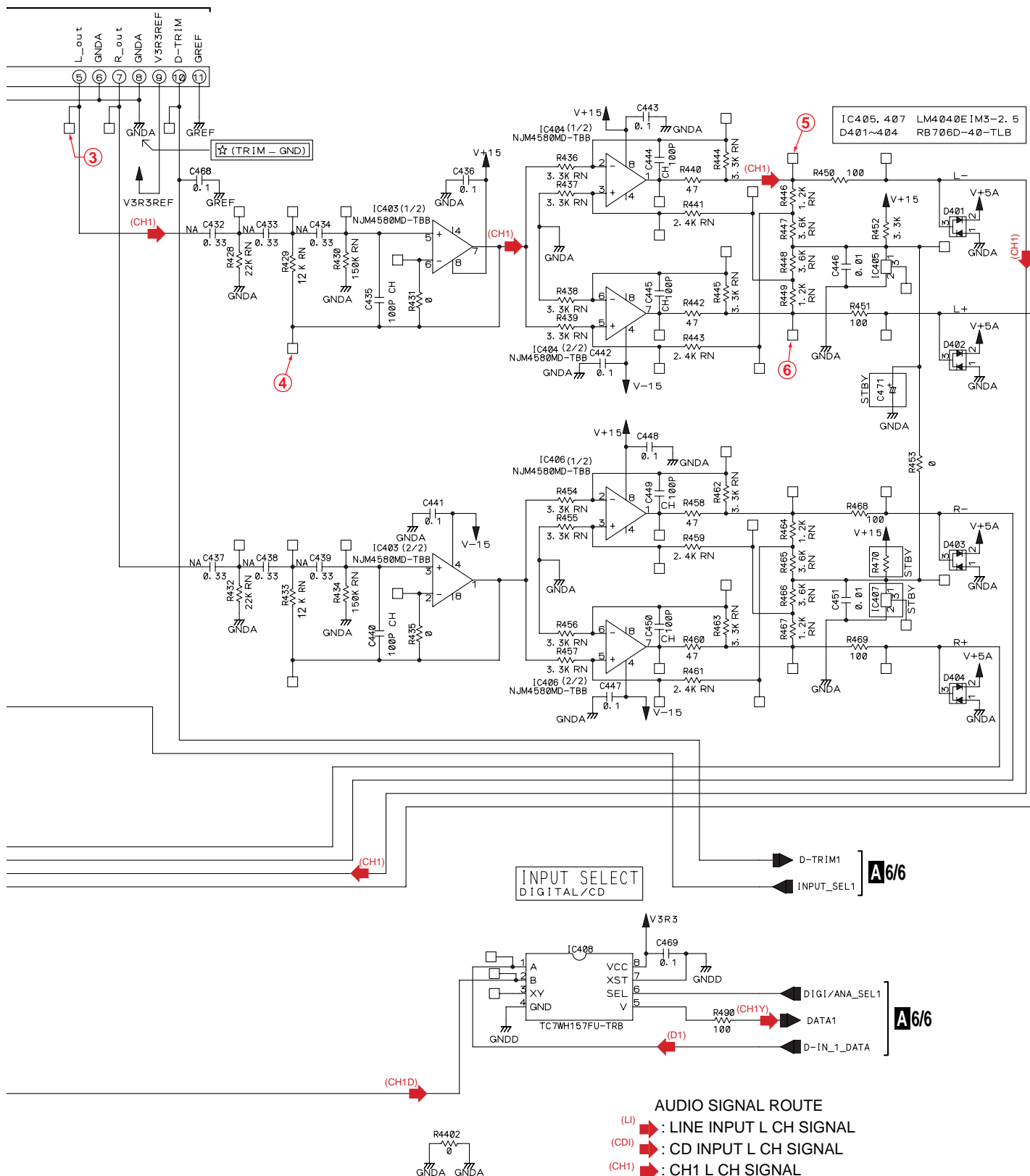


Notes

	is STBY
	RN $\sim$ RN1/16SE****D $\Omega$
	RS $\sim$ RS1/16S***J $\Omega$
	CH $\sim$ CCSRCH F
	NA $\sim$ CFTNA F
	CKSRYB $\mu$ F
	HAR $\sim$ CEHAR $\mu$ F

A 1/6

A2/6,3/6,4/6,6/6



INPUT SELECT  
DIGITAL/CD } A/6/6

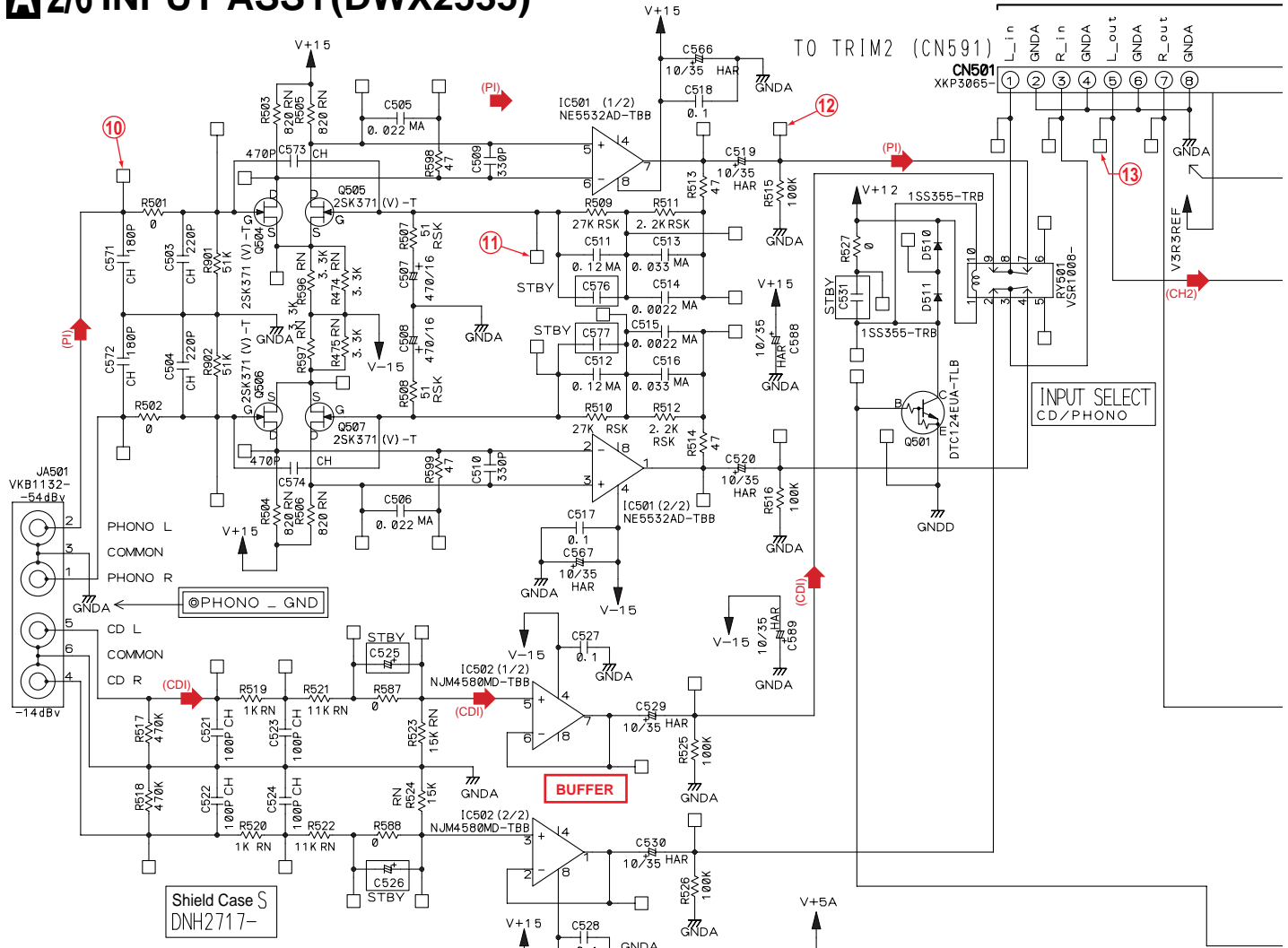
IC408 TC7WH157FU-TRB  
VCC 8  
XST 7  
SEL 6  
V 5  
A 1  
B 2  
XY 3  
GND 4  
GND 10  
DIGI/ANA\_SEL1  
DATA1  
D-IN\_1\_DATA } A/6/6

- AUDIO SIGNAL ROUTE**
- (LI) : LINE INPUT L CH SIGNAL
  - (CDI) : CD INPUT L CH SIGNAL
  - (CH1) : CH1 L CH SIGNAL
  - (D1) : CH1 DIGITAL SIGNAL
  - (CH1Y) : CH1 Y CH SIGNAL

# 3.5 INPUT ASSY (2/6)

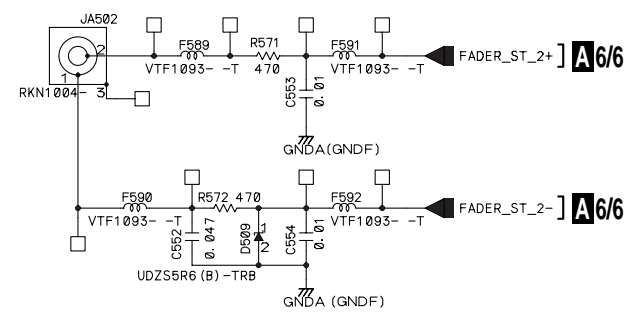
## A 2/6 INPUT ASSY(DWX2535)

D 3/4 CN591



Shield Case S  
DNH2717-

CONTROL 2



Notes   is STBY

RN  $\sim$  RN1/16SE\*\*\*\*D  $\Omega$

RSK  $\sim$  RSK1/16S\*\*\*J  $\Omega$

$\sim$  RS1/16S\*\*\*J  $\Omega$

CH  $\parallel$  CCSRCH F

MA  $\parallel$  CQMA F

NA  $\parallel$  CFTNA F

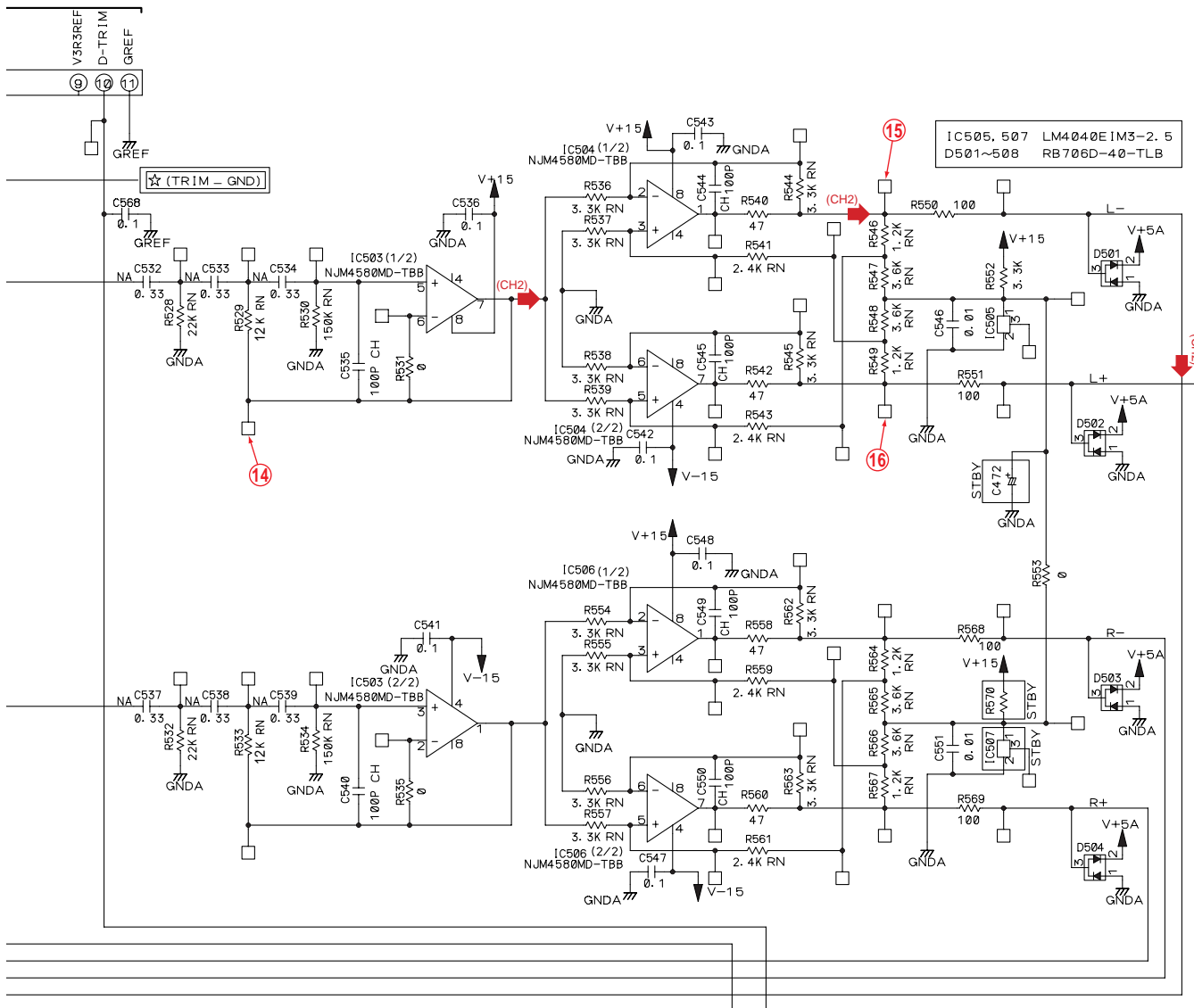
$\parallel$  CKSRYB  $\mu$ F

HAR  $\parallel$  CEHAR  $\mu$ F

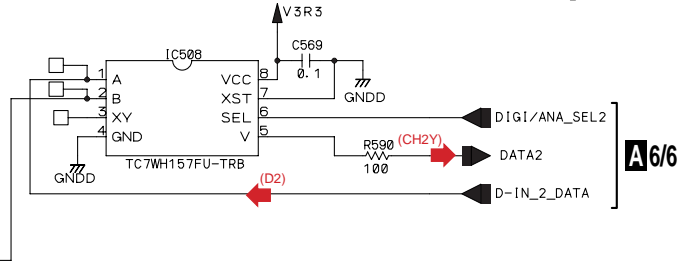
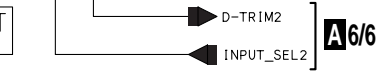
$\parallel$  CEHAT  $\mu$ F

## A 2/6

A 1/6, 3/6, 4/6, 6/6



INPUT SELECT  
DIGITAL/CD

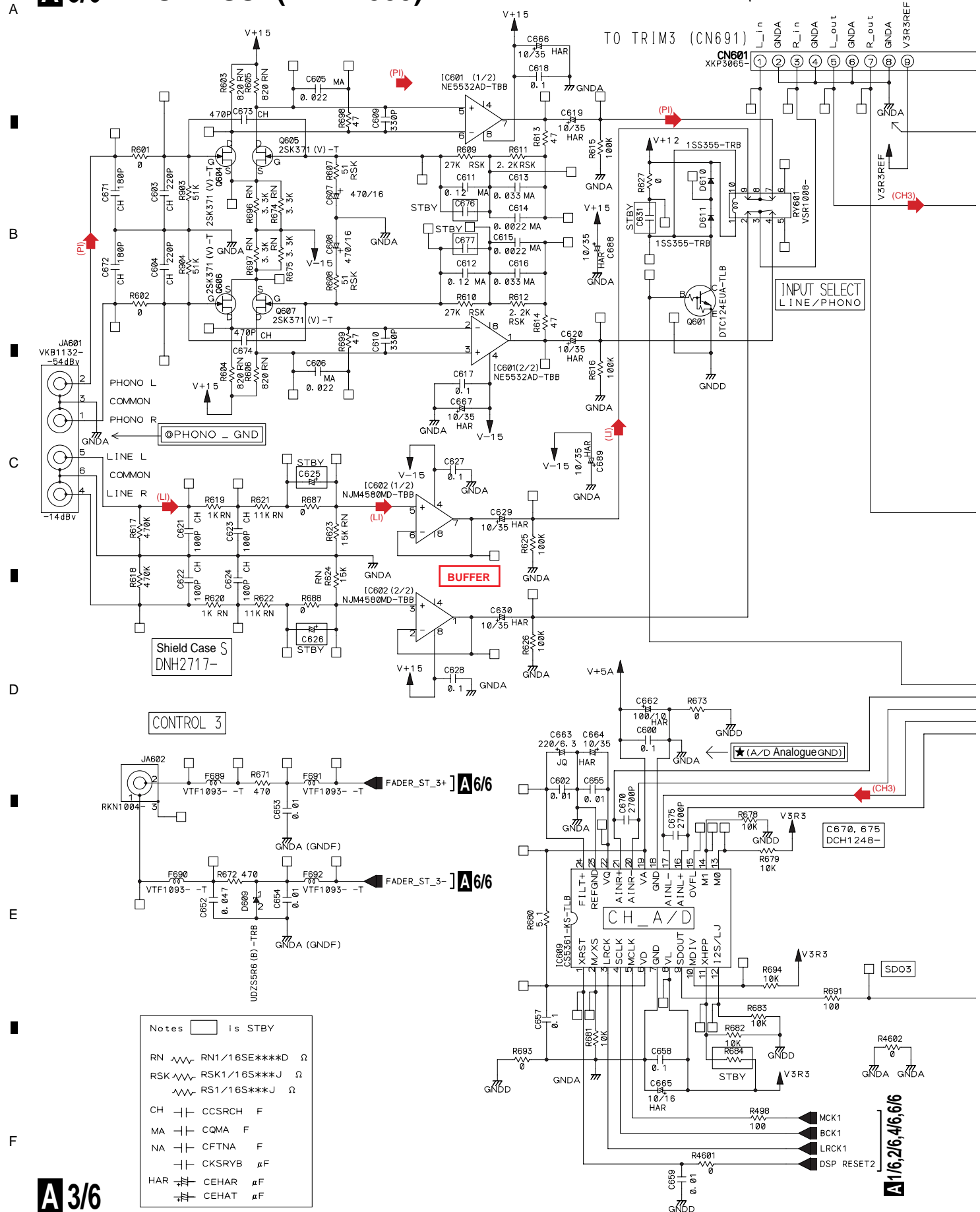


- AUDIO SIGNAL ROUTE**
- (PI) : PHONO INPUT L CH SIGNAL
  - (CDI) : CD INPUT L CH SIGNAL
  - (CH2) : CH2 L CH SIGNAL
  - (D2) : CH2 DIGITAL SIGNAL
  - (CH2Y) : CH2 Y CH SIGNAL

# 3.6 INPUT ASSY (3/6)

## A 3/6 INPUT ASSY (DWX2535)

D 2/4 CN691



Shield Case S  
DNH2717-

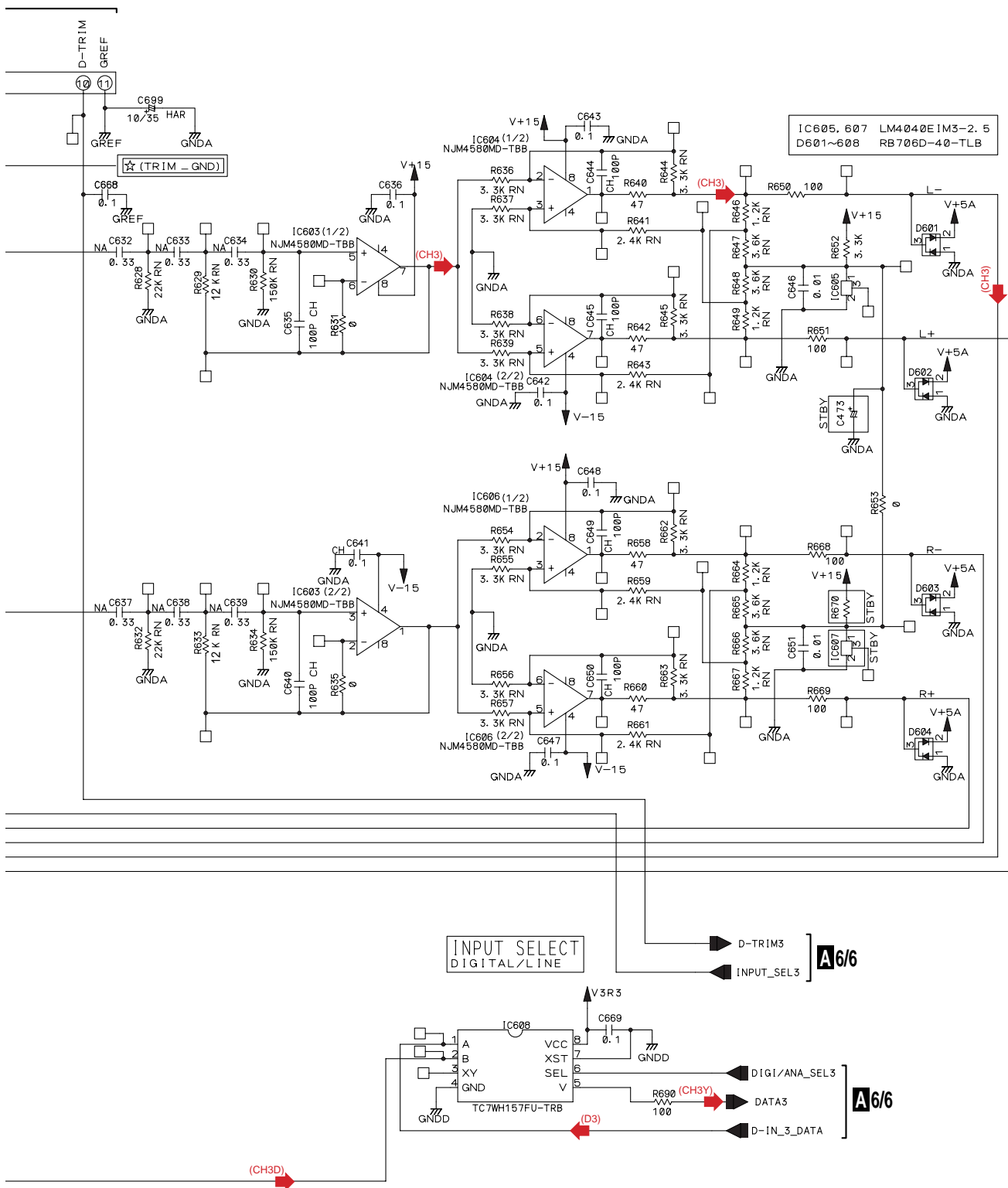
CONTROL 3

Notes    is STBY

RN		RN1/16SE****D	Ω
RSK		RSK1/16S***J	Ω
		RS1/16S***J	Ω
CH		CCSRCH	F
MA		CQMA	F
NA		CFTNA	F
		CKSRYB	μF
		CEHAR	μF
		CEHAT	μF

A 3/6

A 1/6, 2/6, 4/6, 6/6



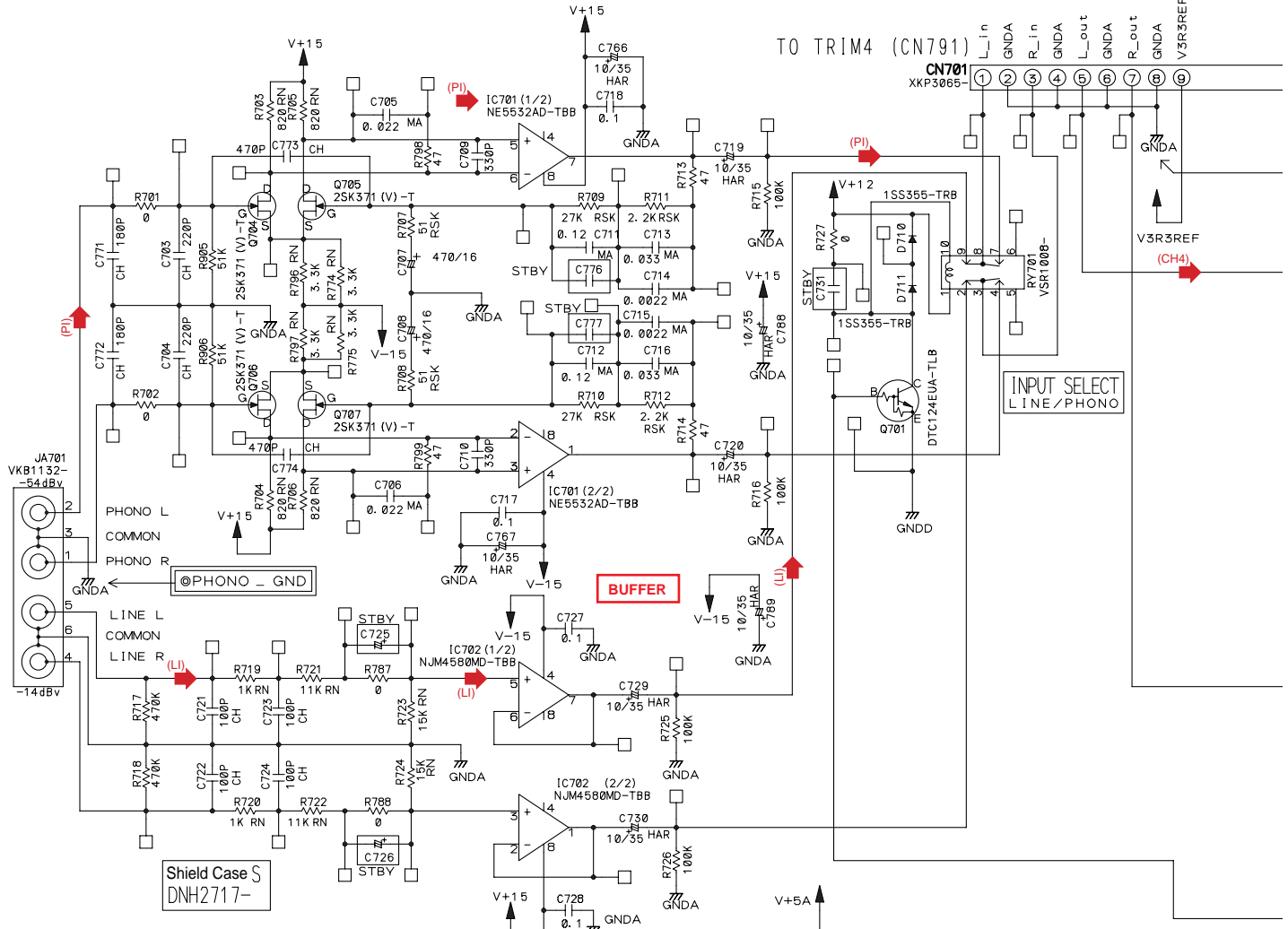
**AUDIO SIGNAL ROUTE**

- (PI) ➡ : PHONO INPUT L CH SIGNAL
- (LI) ➡ : LINE INPUT L CH SIGNAL
- (CH3) ➡ : CH3 L CH SIGNAL
- (D3) ➡ : CH3 DIGITAL SIGNAL
- (CH3Y) ➡ : CH3 Y CH SIGNAL

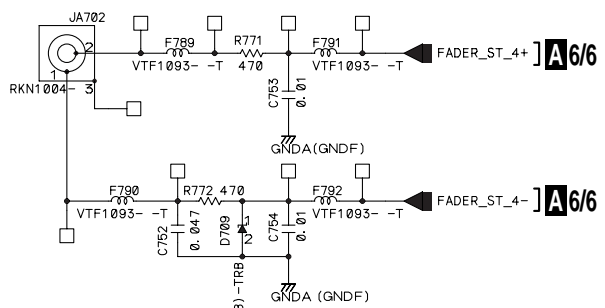
# 3.7 INPUT ASSY (4/6)

## A 4/6 INPUT ASSY (DWX2535)

D 1/4 CN791

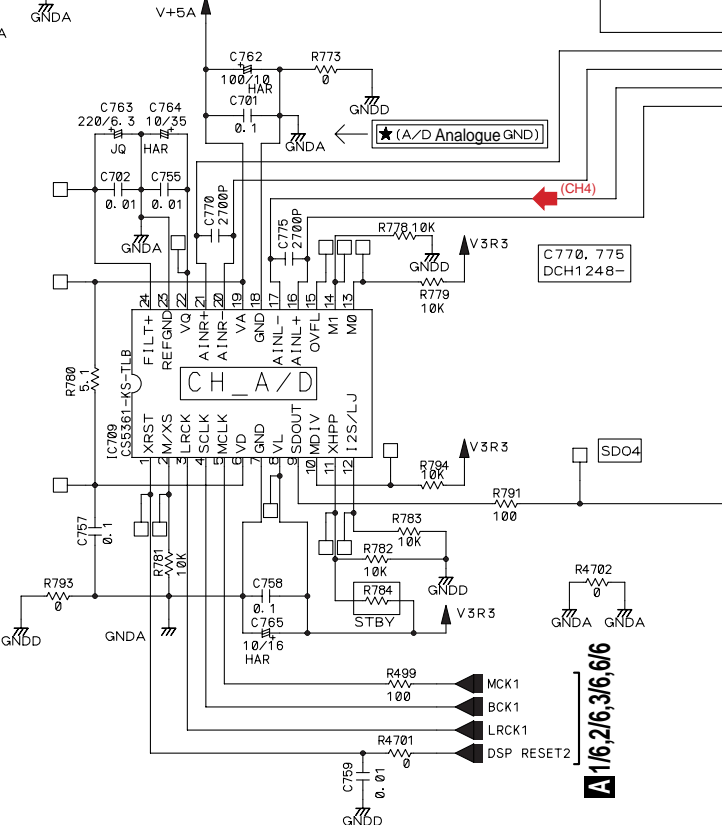


CONTROL 4



Notes

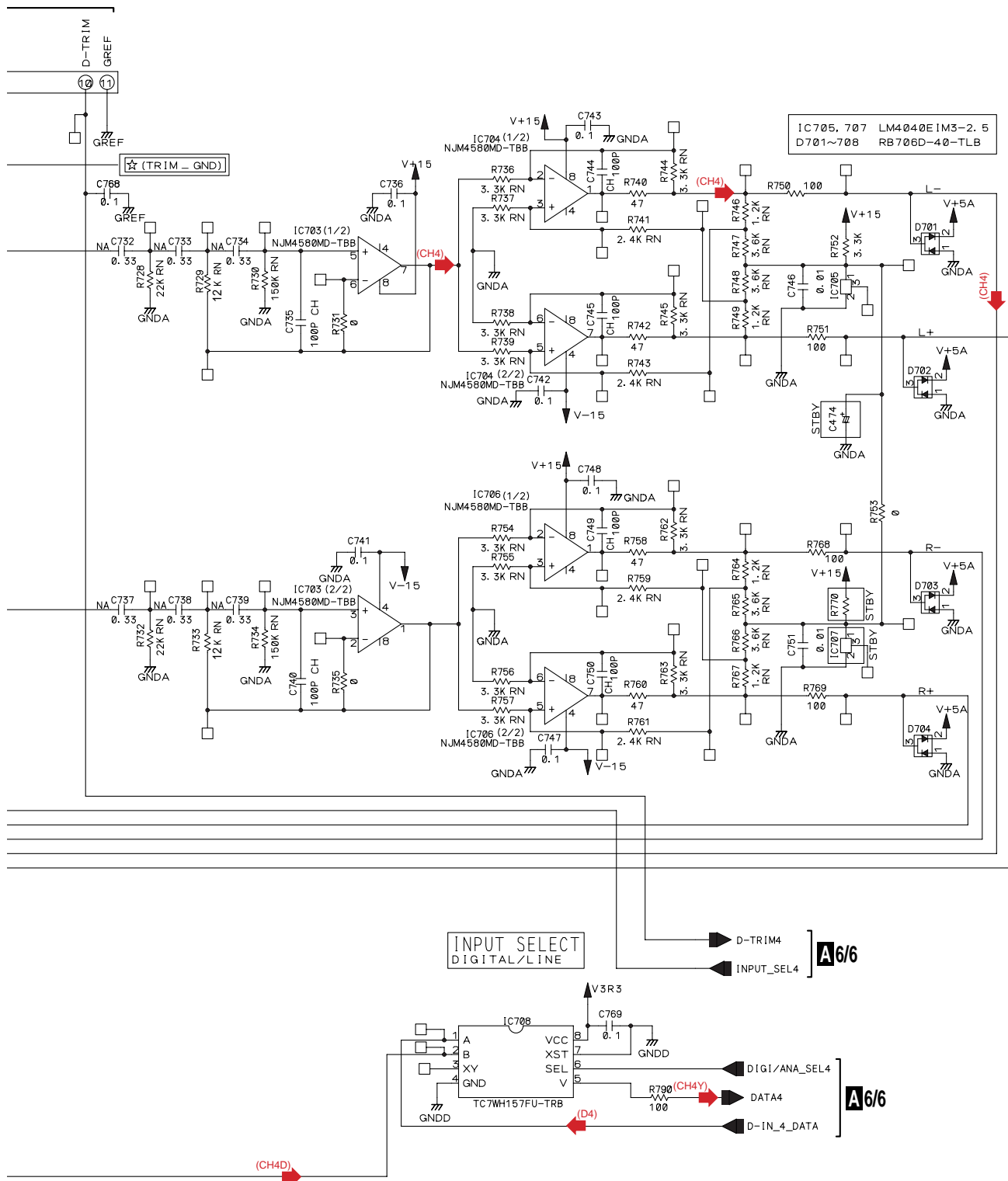
	is STBY
RN	RN1/16SE***D Ω
RSK	RSK1/16S***J Ω
RS	RS1/16S***J Ω
CH	CCSRCH F
MA	CQMA F
NA	CFTNA F
CK	CKSRVB μF
HAR	CEHAR μF
	CEHAT μF



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



A  
B  
C  
D  
E  
F



INPUT SELECT  
DIGITAL/LINE

- 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

IC705, 707 LM4040EIM3-2.5  
D701~708 RB706D-40-TLB

A/6/6

A/6/6

# 3.8 INPUT ASSY (5/6)

## A 5/6 INPUT ASSY (DWX2535)

A

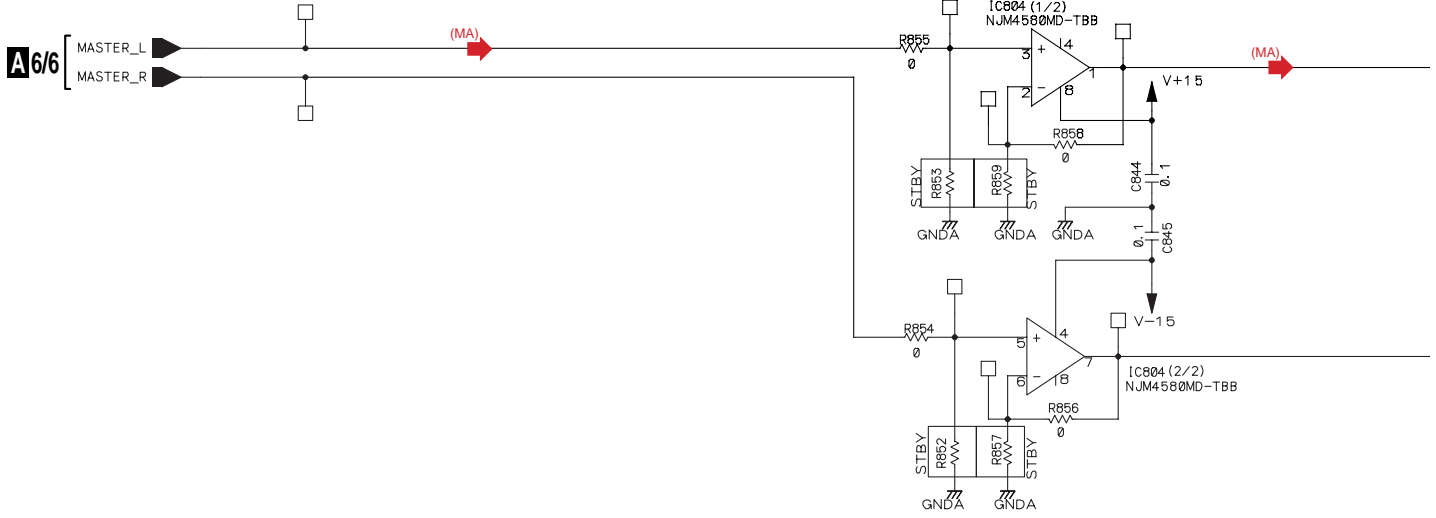
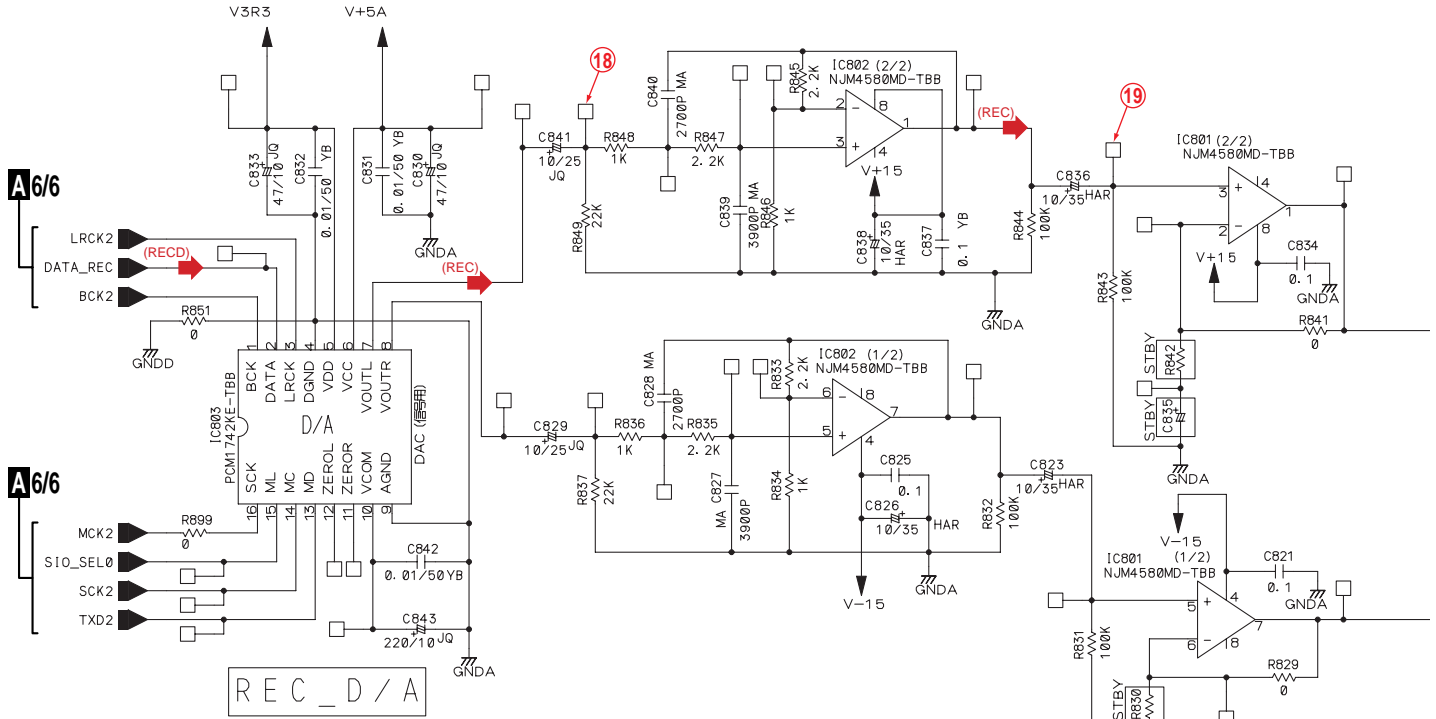
B

C


D


E


F





## A 5/6


Notes  is STBY


RN  RN1/16SE\*\*\*\*D Ω


 RS1/16S\*\*\*\*J Ω

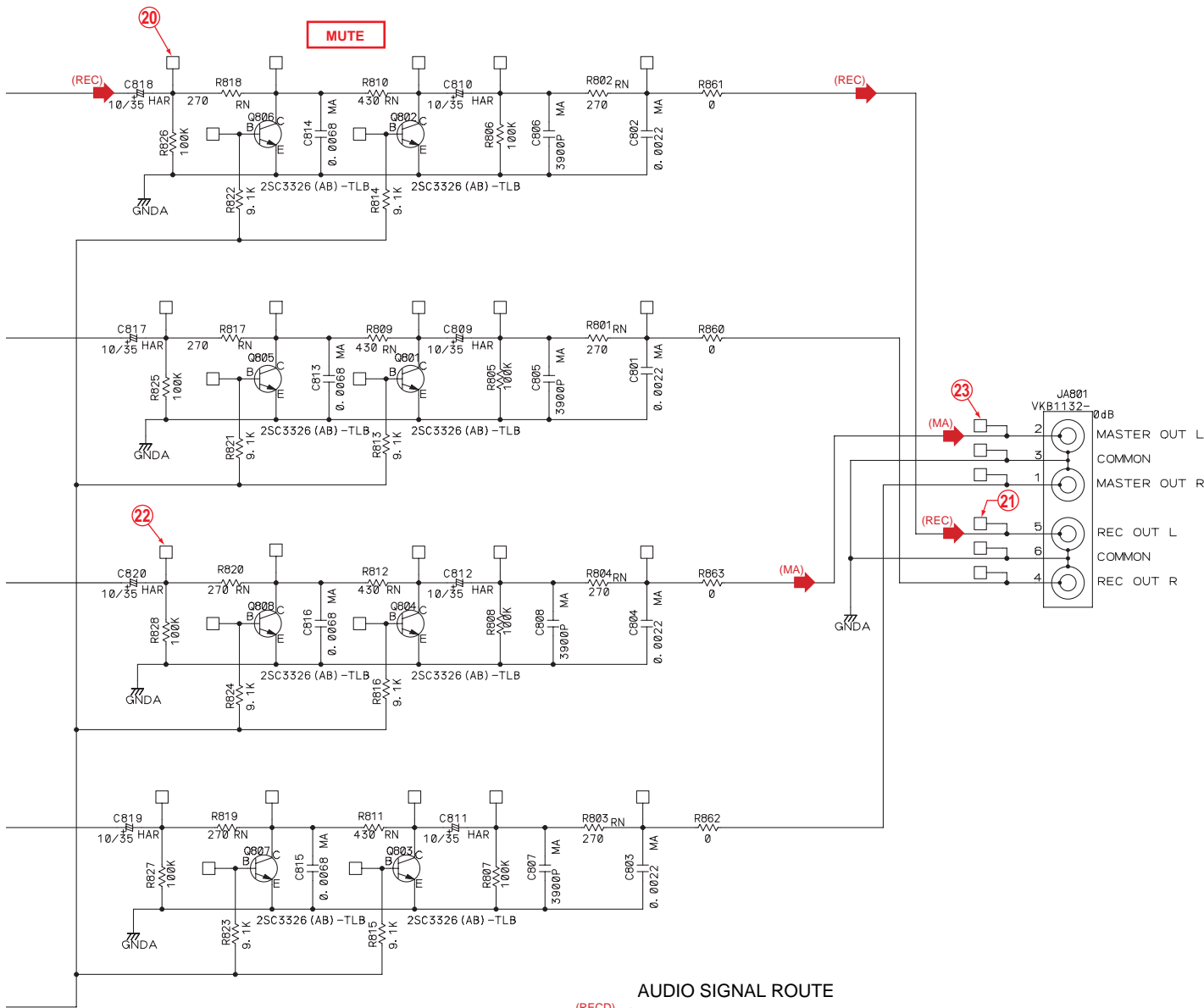
CH  CCSRCH F

MA  CQMA F


 CKSRYB μF


HAR  CEHAR μF


JQ  CEJQ μF



**AUDIO SIGNAL ROUTE**

(RECD)  : REC DIGITAL CH SIGNAL

(REC)  : REC L CH SIGNAL

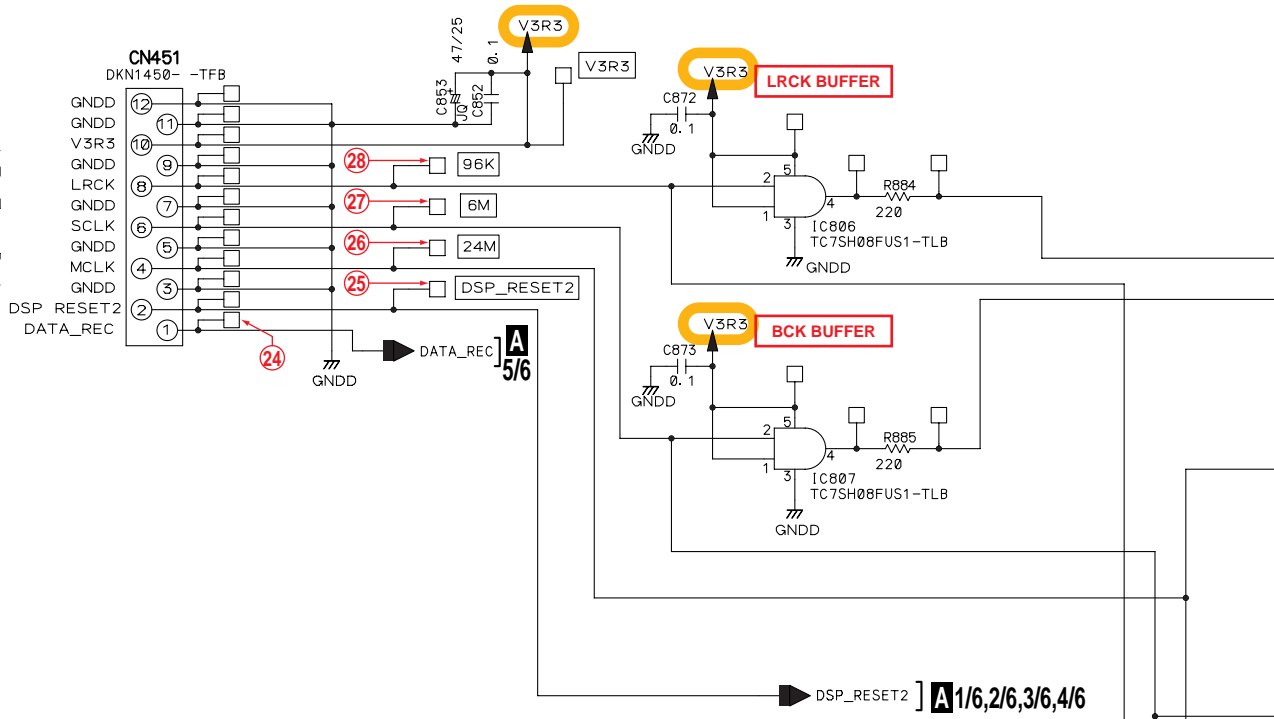
(MA)  : MASTER L CH SIGNAL

# 3.9 INPUT ASSY (6/6)

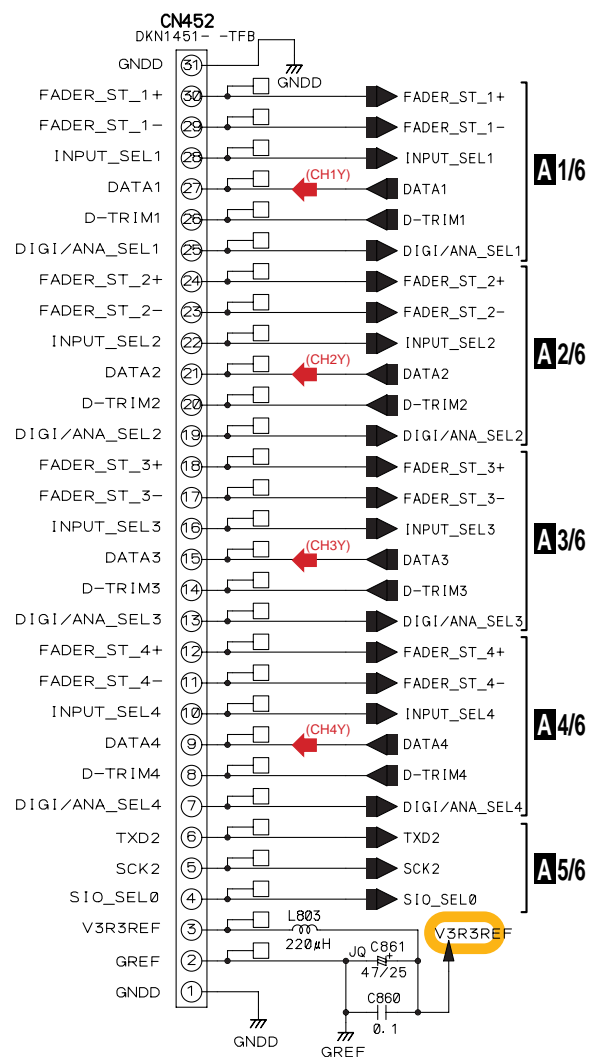
## A 6/6 INPUT ASSY (DWX2535)

A  
B  
C  
D  
E  
F

1/3 CN3  
TO DSP



1/3 CN2  
TO DSP

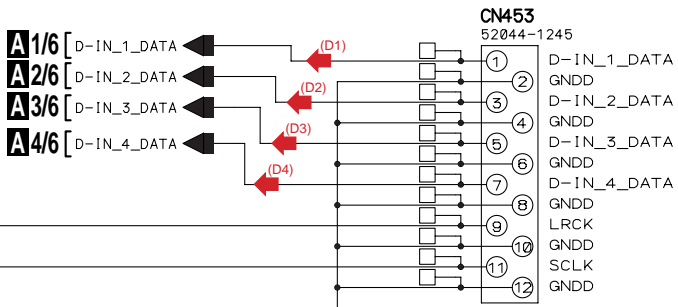


Notes is STBY  
 RS1/16S\*\*\*J Ω  
 CKSRYB μF  
 CEJQ μF

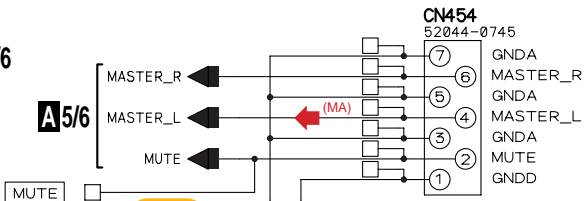
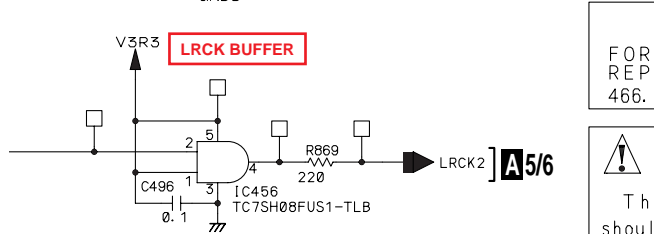
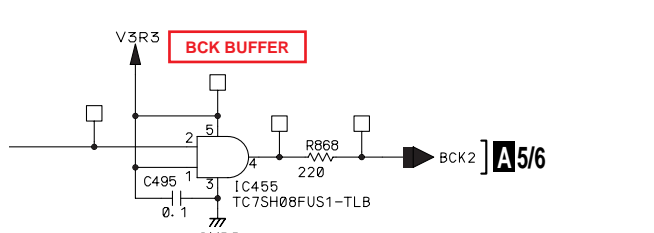
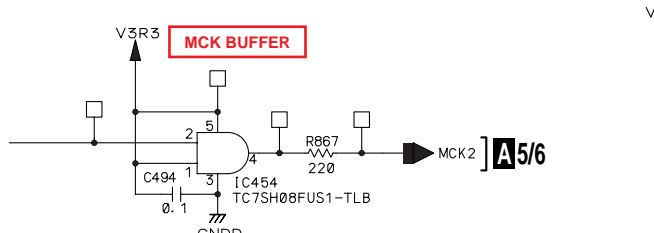
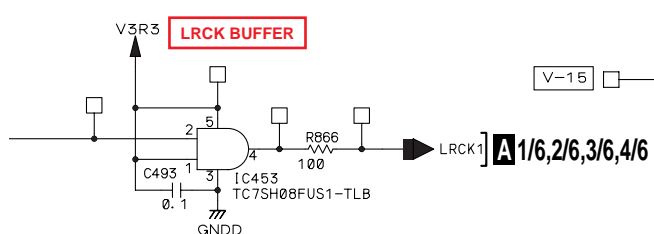
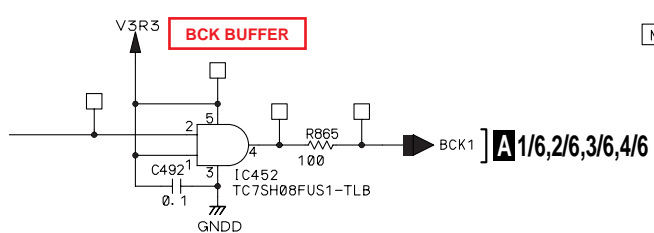
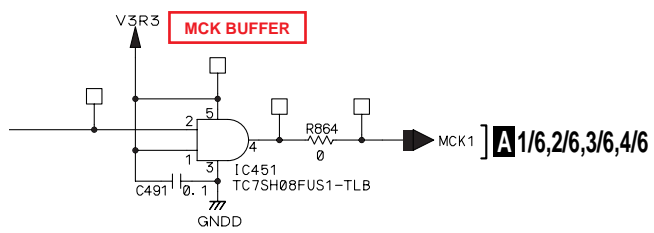
- AUDIO SIGNAL ROUTE**
- (CH1Y) : CH 1 Y CH SIGNAL
  - (CH2Y) : CH 2 Y CH SIGNAL
  - (CH3Y) : CH 3 Y CH SIGNAL
  - (CH4Y) : CH 4 Y CH SIGNAL
  - (D1) : CH1 DIGITAL SIGNAL
  - (D2) : CH2 DIGITAL SIGNAL
  - (D3) : CH3 DIGITAL SIGNAL
  - (D4) : CH4 DIGITAL SIGNAL
  - (MA) : MASTER L CH SIGNAL

## A 6/6

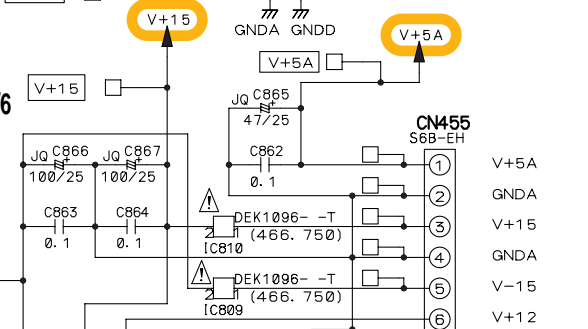
A  
B  
C  
D  
E  
F



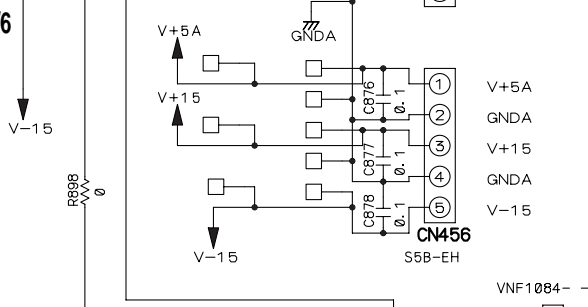
TO DIGIC  
**K** CN1203



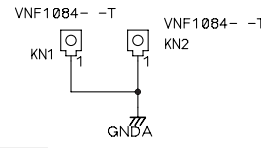
TO OUTPUT  
**J** 1/3 CN902



TO OUTPUT  
**J** 3/3 CN904



TO MIC1  
**B** CN1501



**CAUTION**

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,  
REPLACE ONLY WITH SAME TYPE NO.  
466.750 MFD. BY LITTELFUSE INC. FOR IC809 AND IC810

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

**A** 6/6

# 3.10 MIC 1 ASSY

## B MIC1 (DWX2542)

A

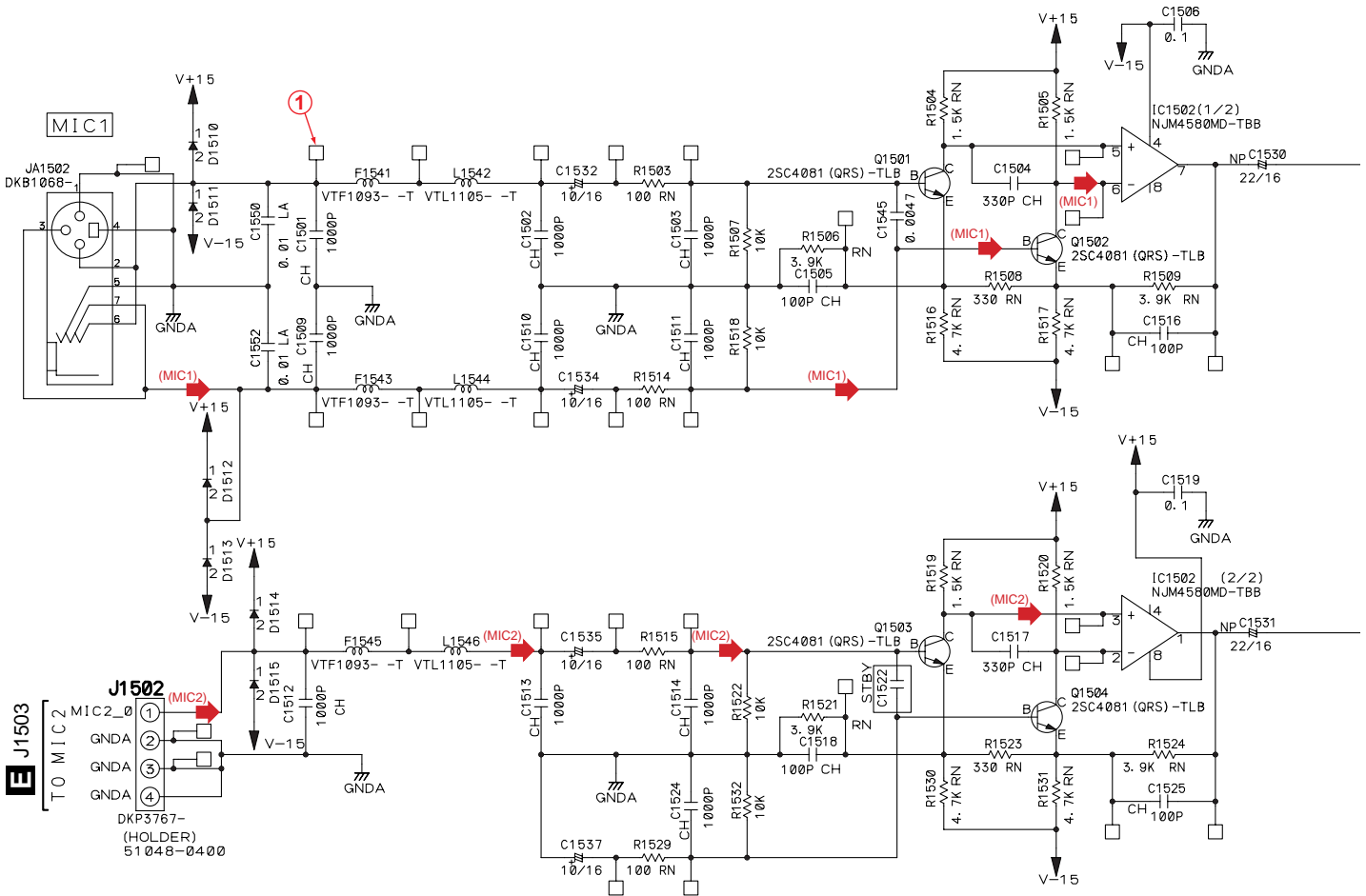
B


C









D

E

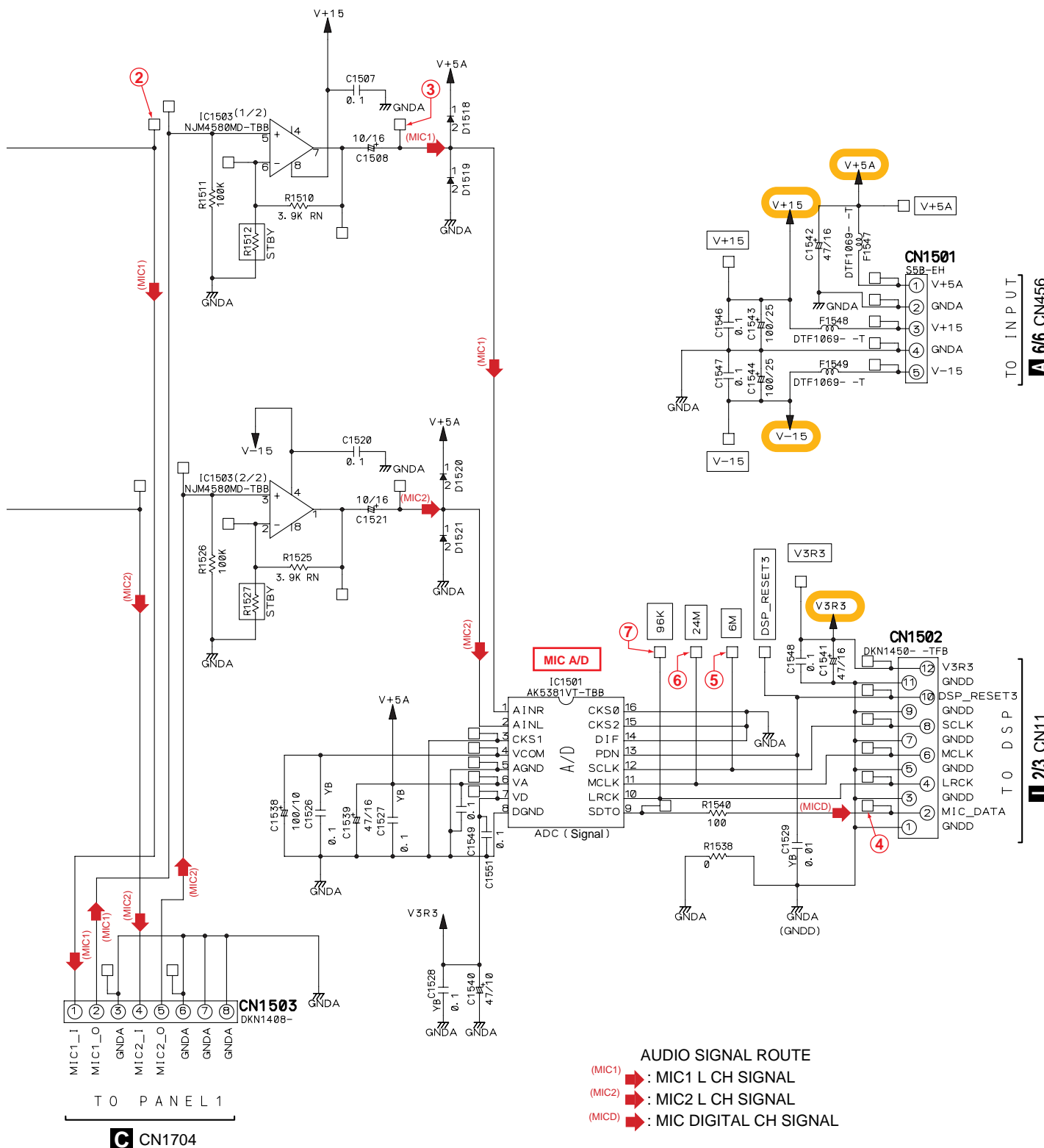
F



Notes  is STBY

VM		$RD1/2VM***$	$\Omega$
RN		$RN1/16SE****D$	$\Omega$
		$RS1/16S***J$	$\Omega$
CH		CCSRCH	F
LA		CFTLA	F
		CKSRYB	$\mu F$
NP		CEALNP	$\mu F$
		CEAL	$\mu F$

## B

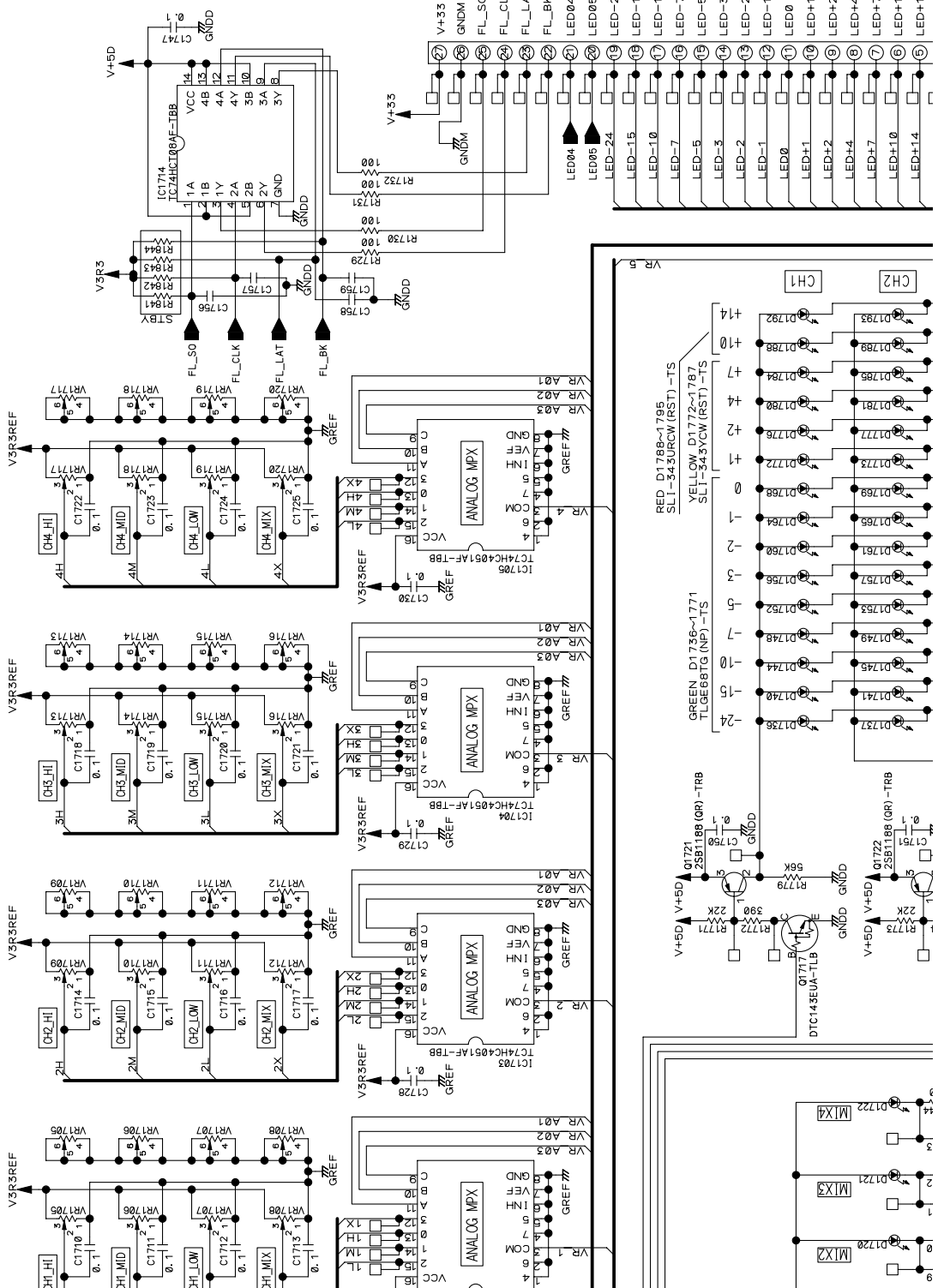
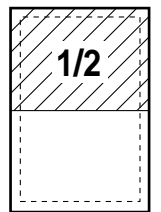
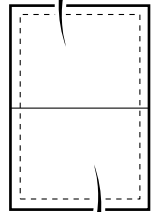
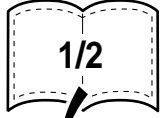


# 3.11 PANEL 1 ASSY

## C PANEL1 ASSY (DWX2552)(1/2)

F CN2101

Large size SCH diagram



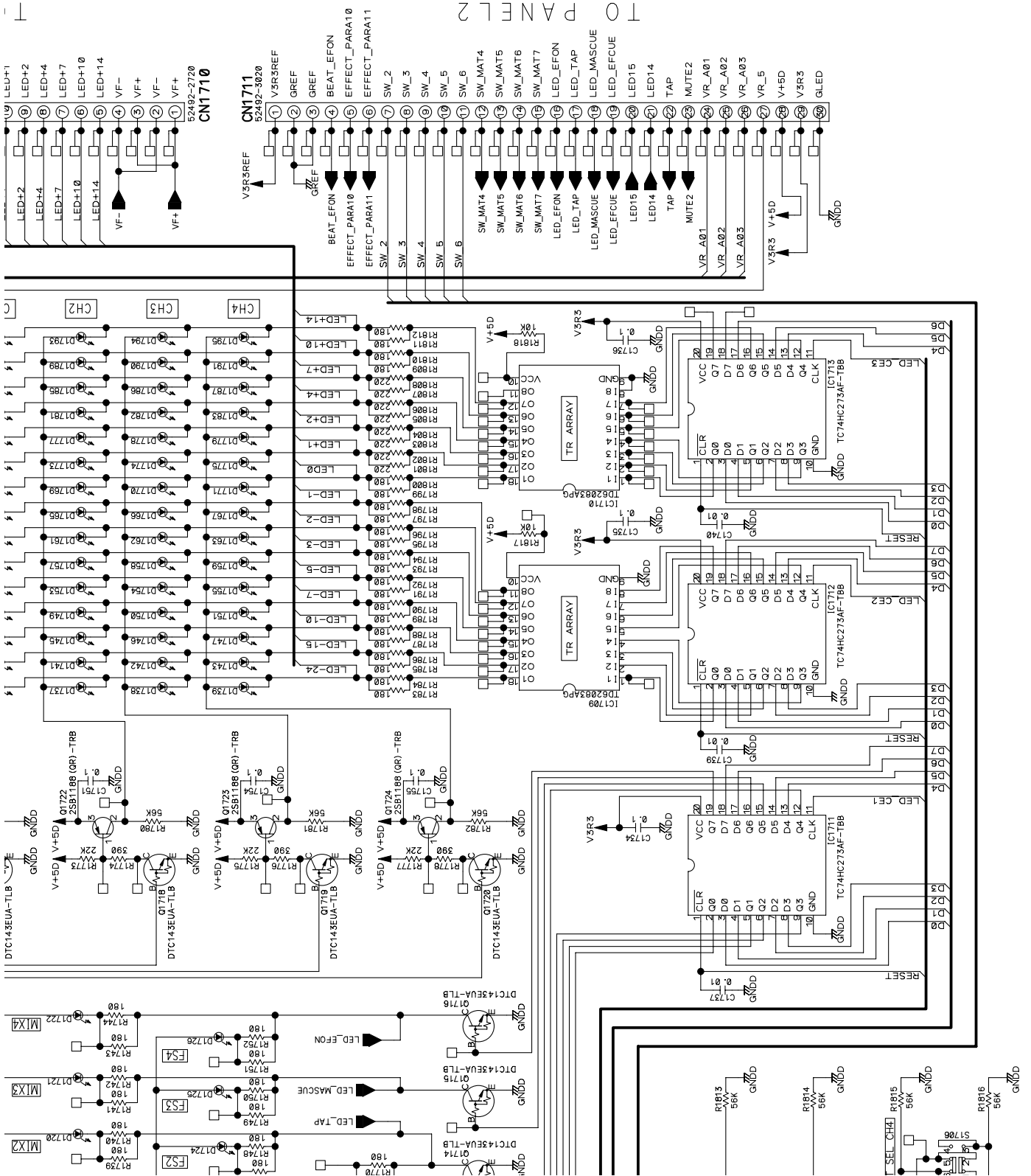
DJM-800

TO PANEL 2



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

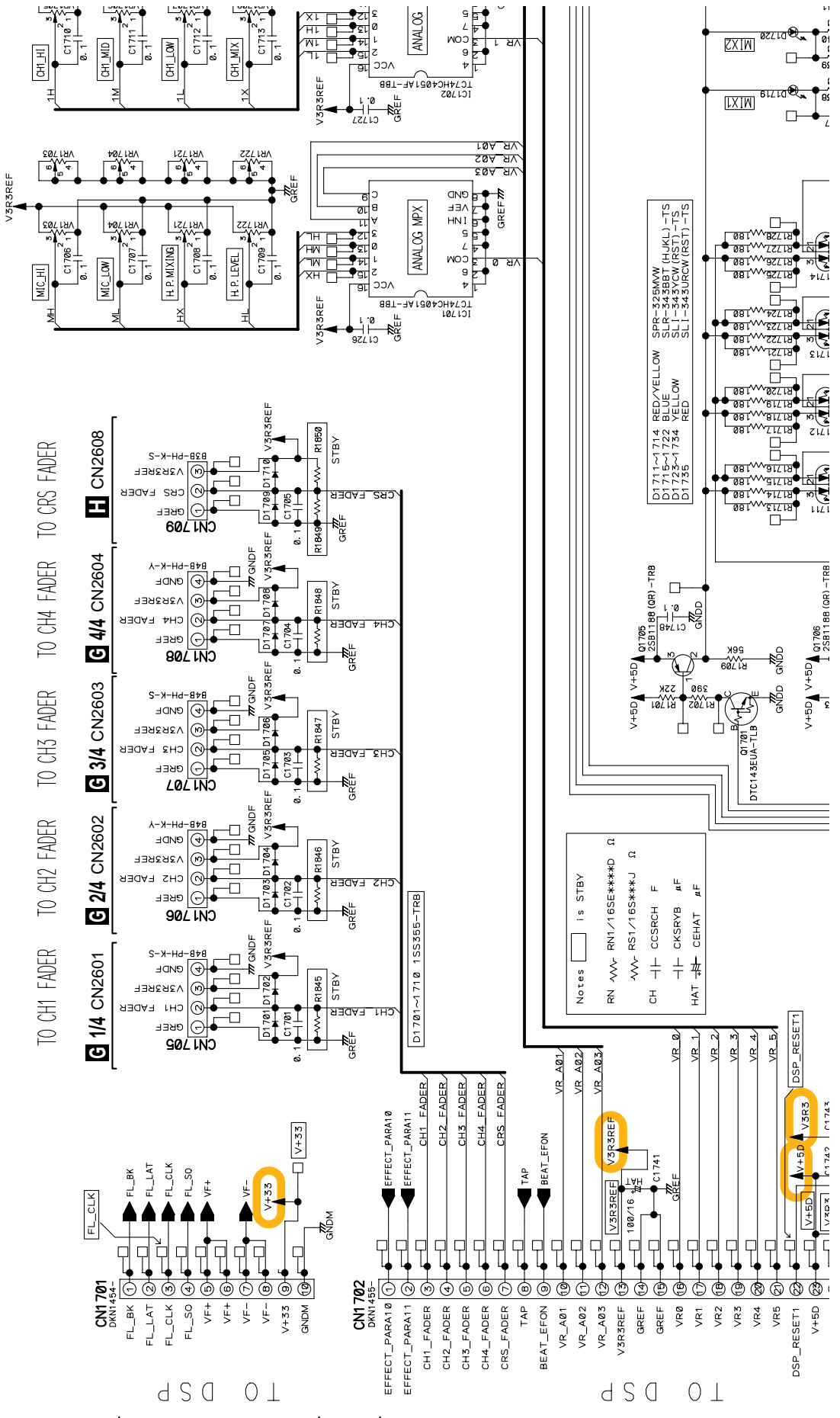
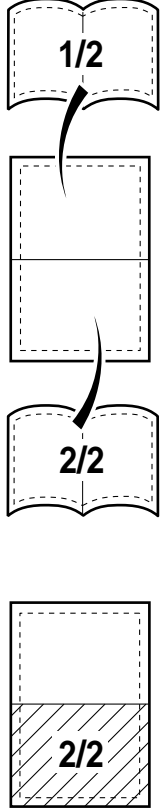
**F** CN2102



# PANEL1 ASSY (DWX2552)(2/2)

VR1705~1707= DCS1085-  
 VR1708~1710= DCS1086-  
 VR1711~1715= DCS1087-  
 VR1716~1719= DCS1088-  
 VR1720~1722= DCS1089-  
 VR1723= DCS1086-

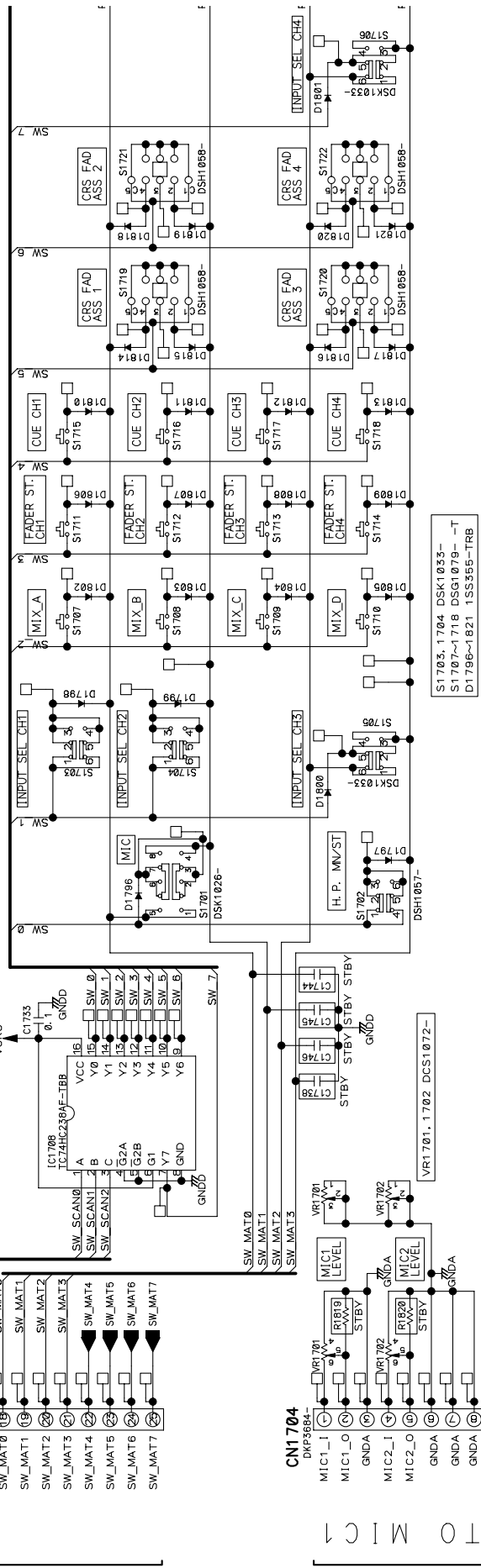
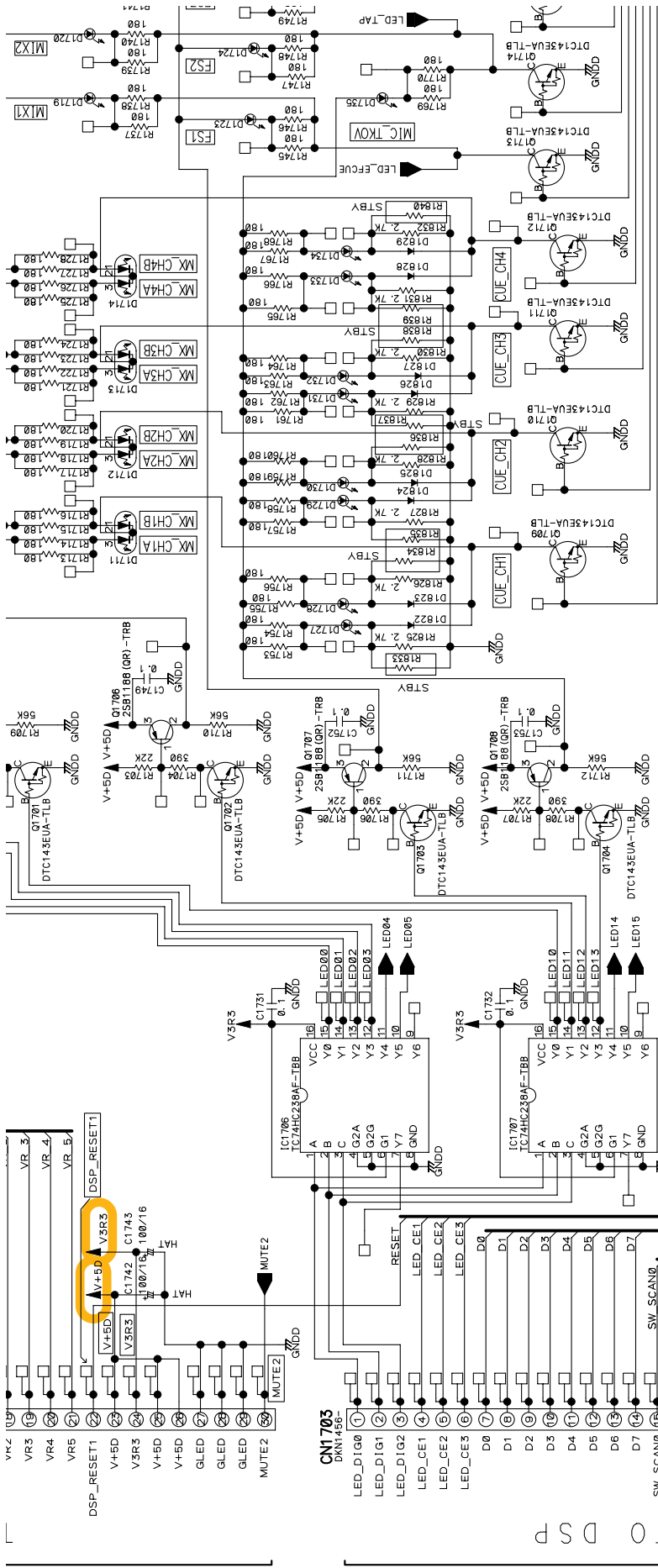
Large size SCH diagram



1/3 CN4

1/3 CN5

DJM-800

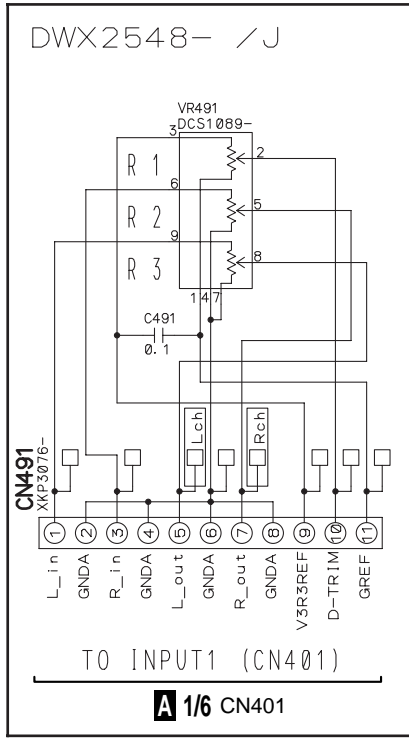


1/3 CN6

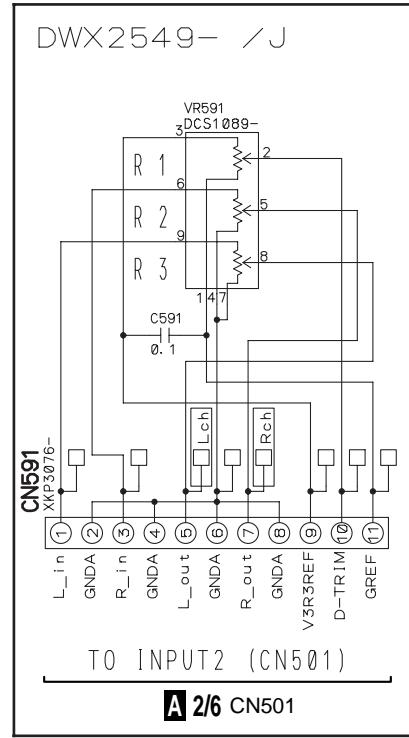
B CN1503

### 3.12 TRIM1 to TRIM 4 ASSYS

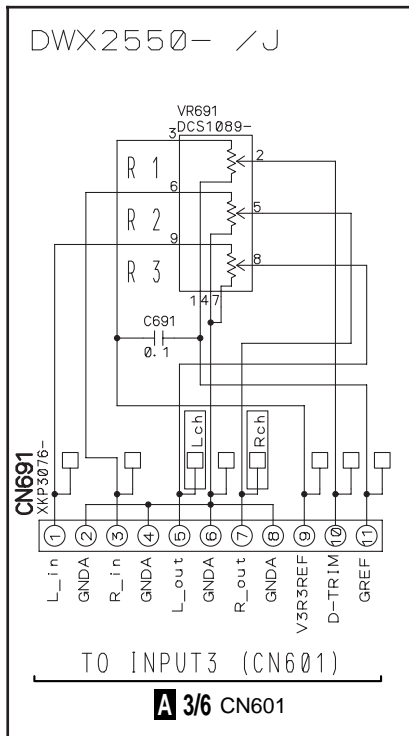
#### D 4/4 TRIM1 ASSY (DWX2548)



#### D 3/4 TRIM2 ASSY (DWX2549)

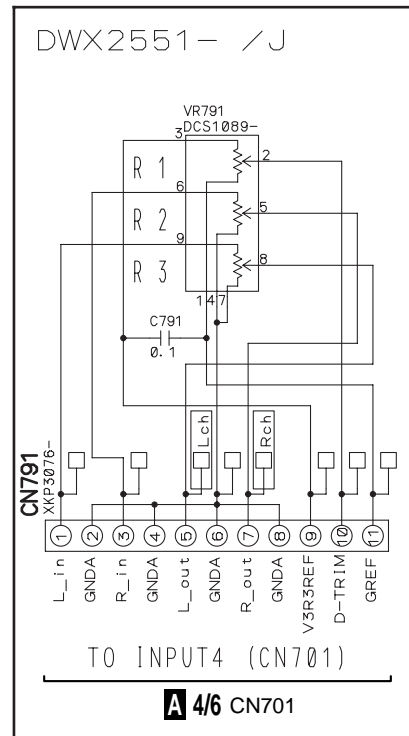


#### D 2/4 TRIM3 ASSY (DWX2550)

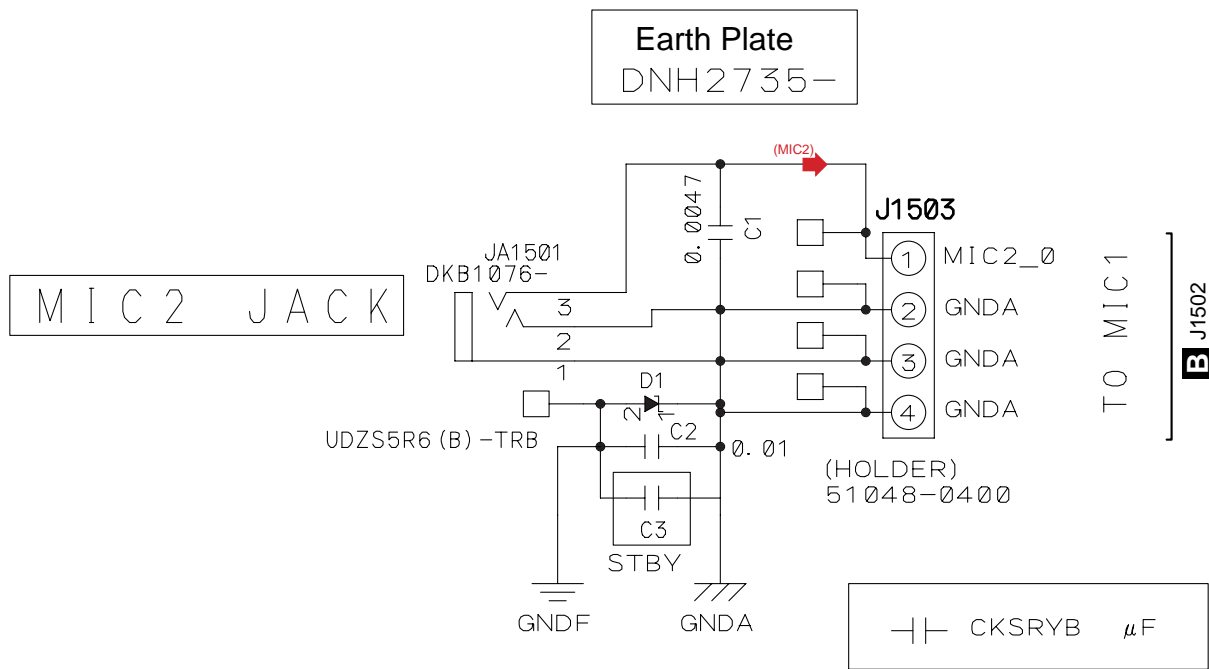


CKSRYB μF

#### D 1/4 TRIM4 ASSY (DWX2551)



**E** MIC2 (DWX2543)



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

# 3.14 PANEL 2 ASSY

## F PANEL2 ASSY (DWX2554)

A

B

C

D

E

F

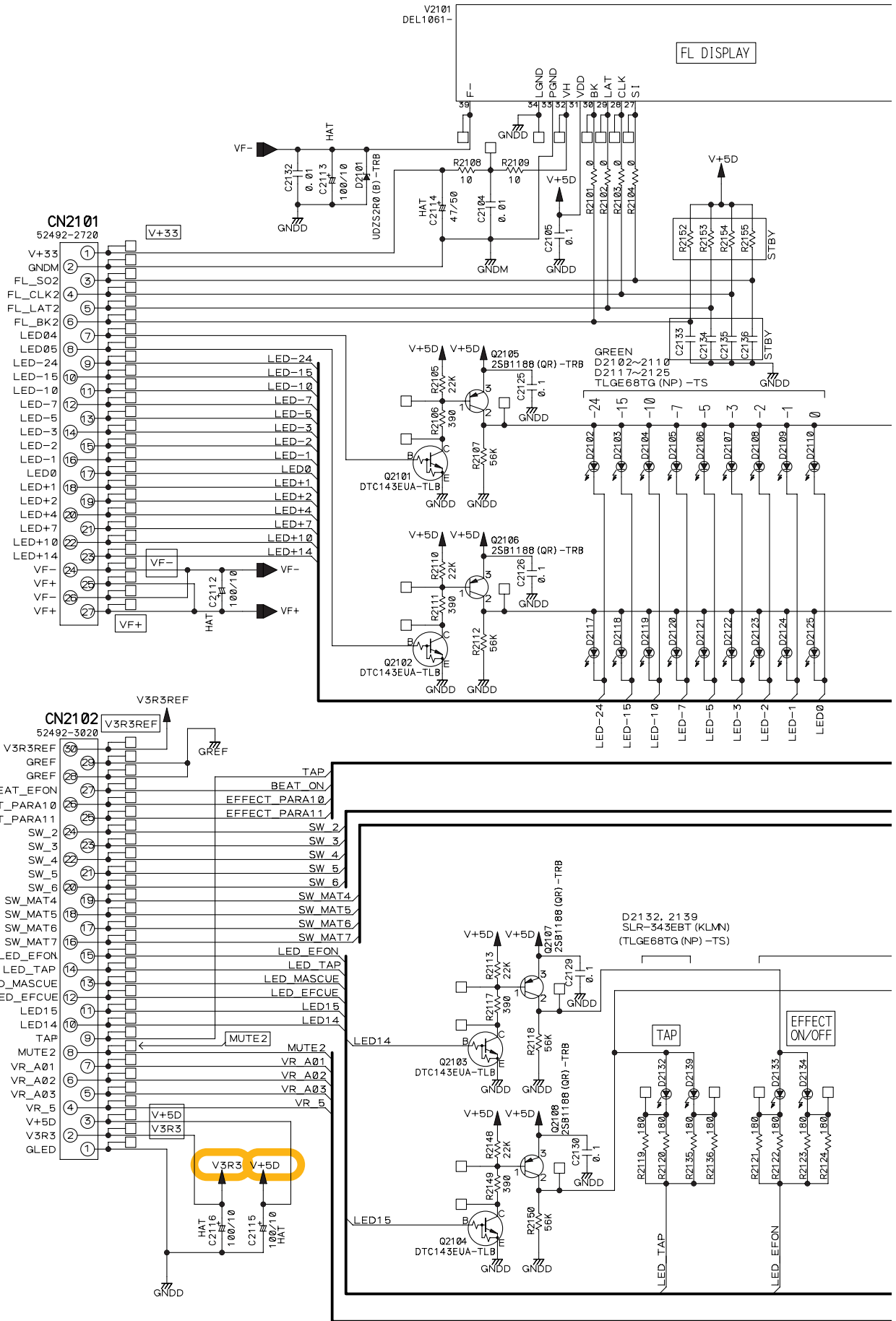
38

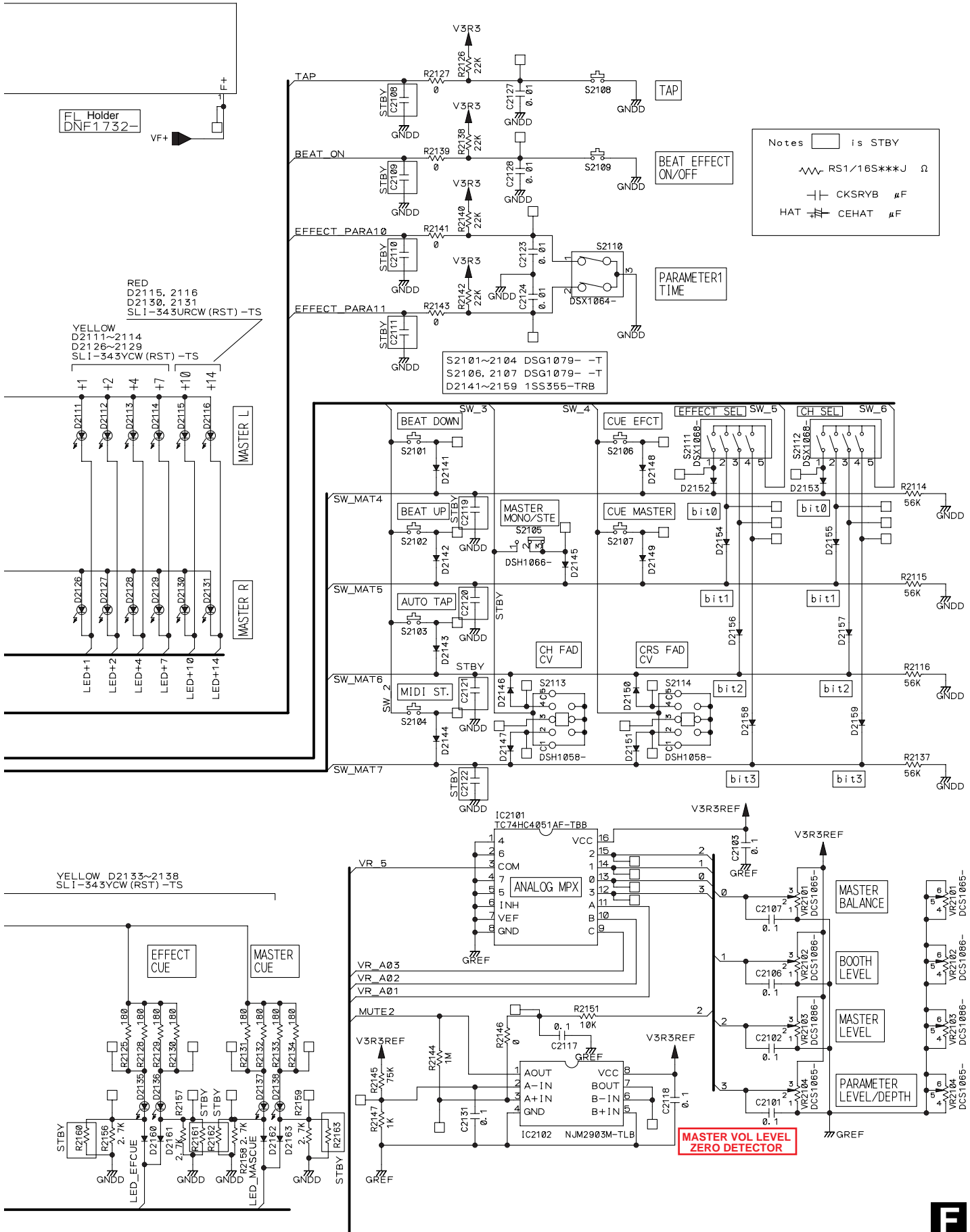
C CN1710

TO PANEL1

C CN1711

TO PANEL1





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

RED  
 D2115, 2116  
 D2130, 2131  
 SLI-343URCV (RST) -TS

YELLOW  
 D2111~2114  
 D2126~2129  
 SLI-343YCV (RST) -TS

S2101~2104 DSG1079 -T  
 S2106, 2107 DSG1079 -T  
 D2141~2159 1SS355-TRB

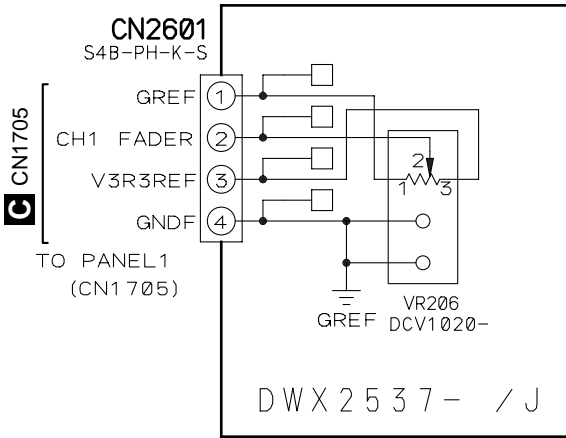
YELLOW D2133~2138  
 SLI-343YCV (RST) -TS

MASTER VOL LEVEL ZERO DETECTOR

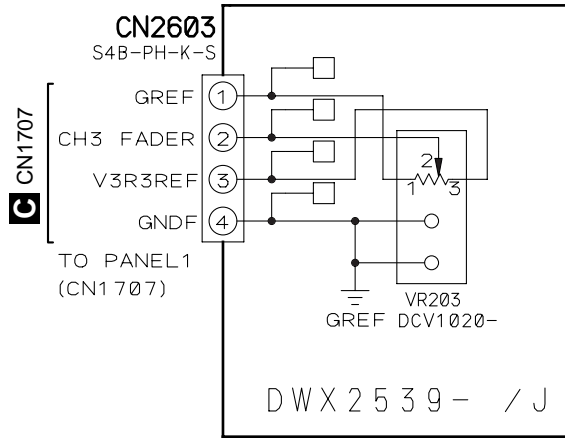


### 3.15 CHFD 1 to CHFD 4 and CRSFD ASSYS

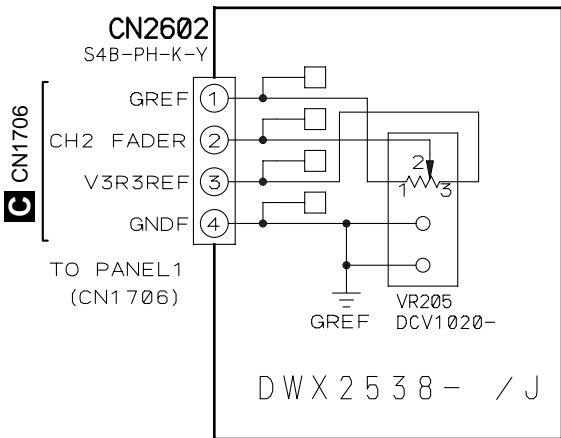
#### G 1/4 CHFD1(DWX2537)



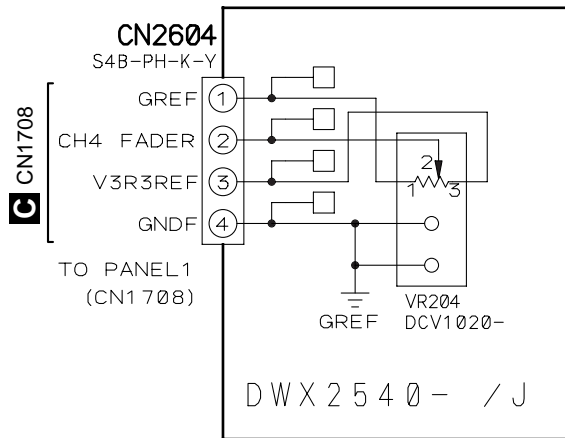
#### G 3/4 CHFD3(DWX2539)



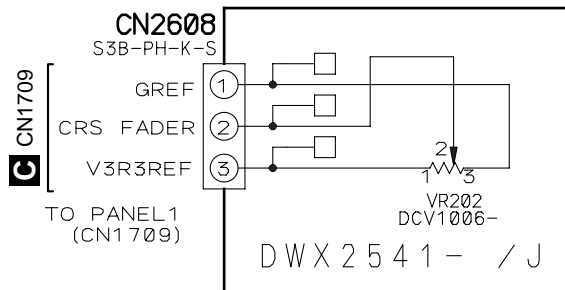
#### G 2/4 CHFD2(DWX2538)



#### G 4/4 CHFD4(DWX2540)

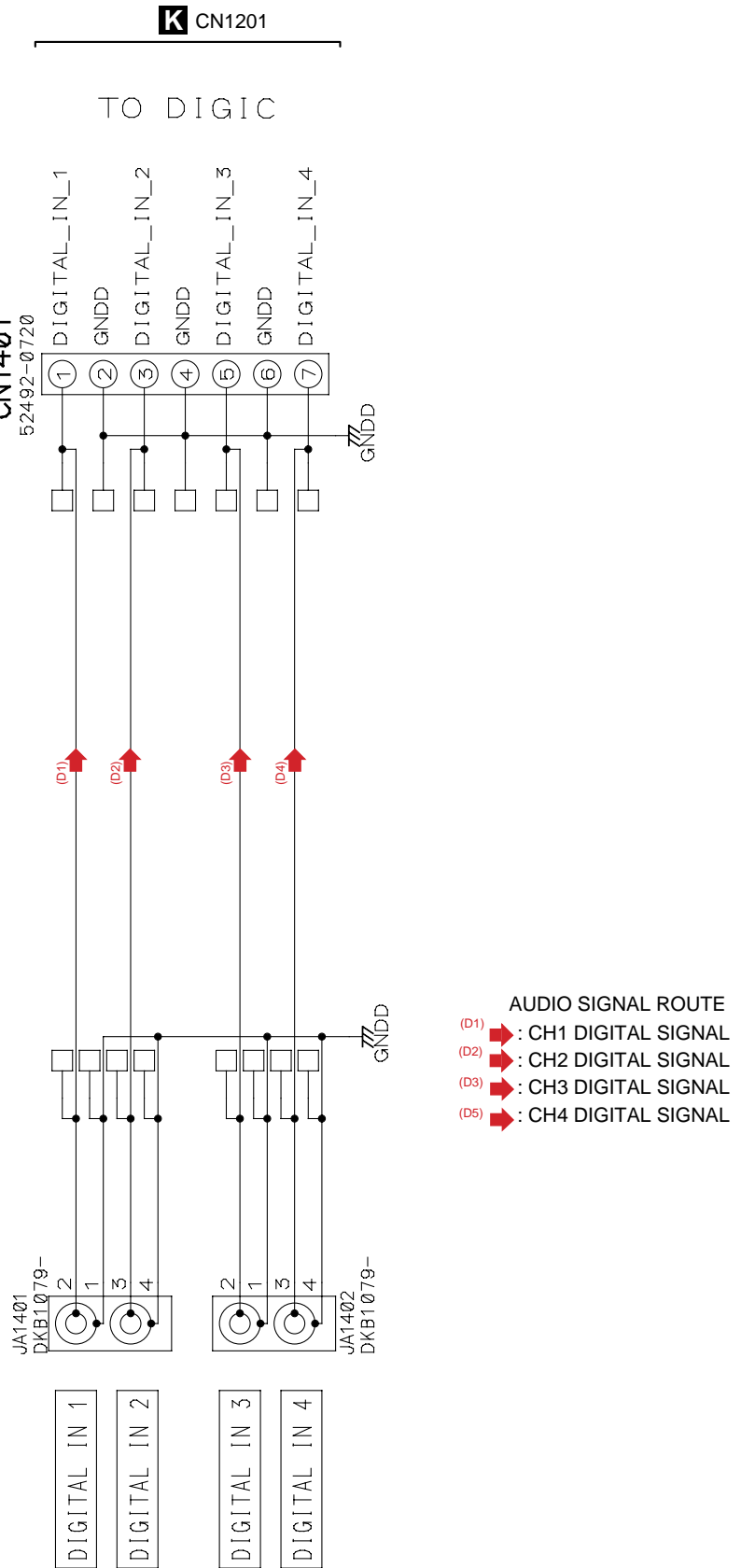


#### H CRSFD(DWX2541)





# DIGIA ASSY (DWX2555)



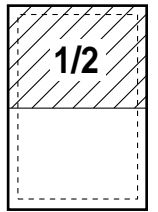
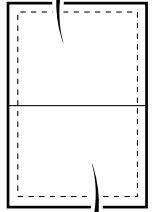
A  
B  
C  
D  
E  
F



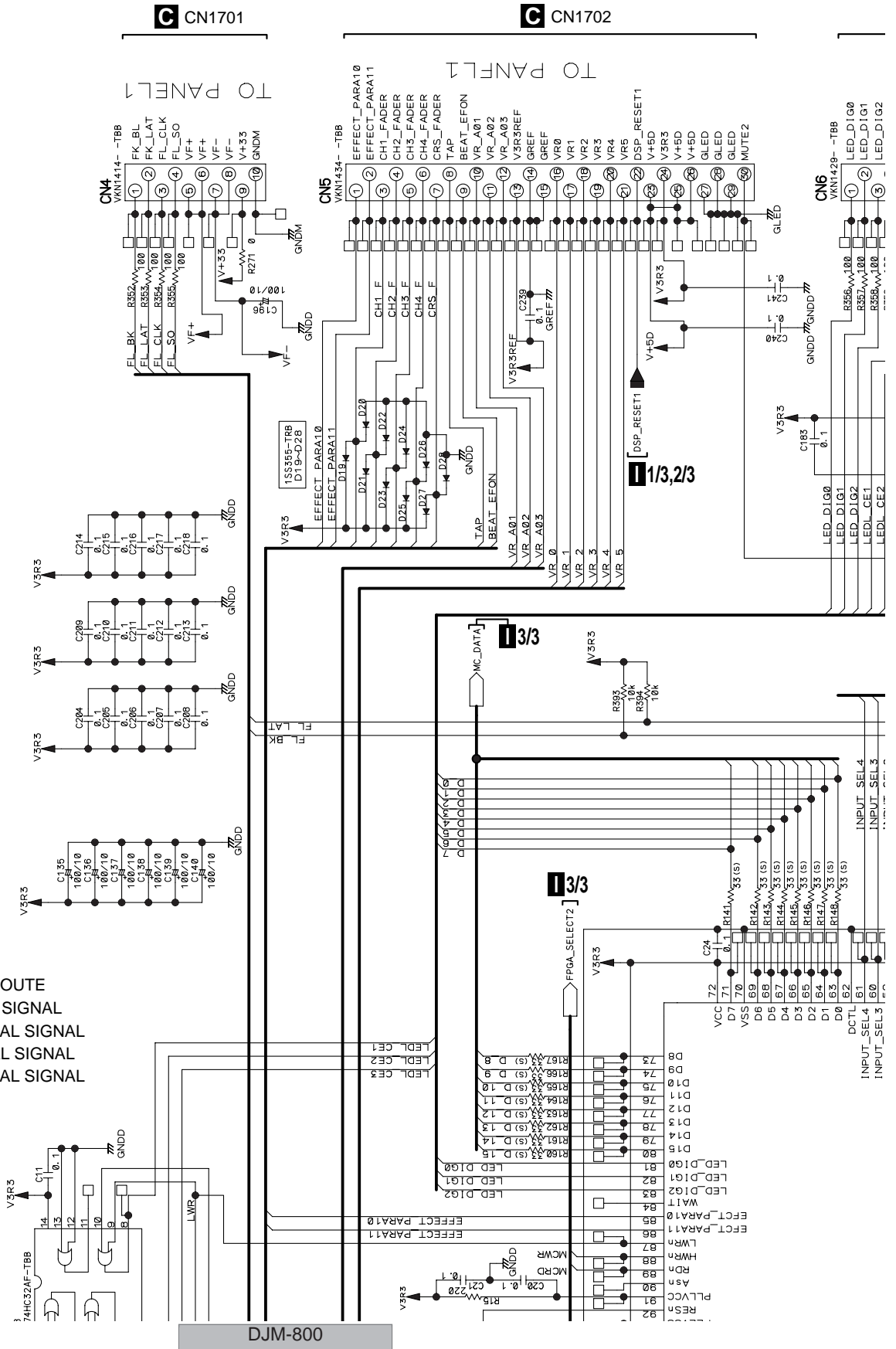
# 3.17 DSP ASSY (1/3)

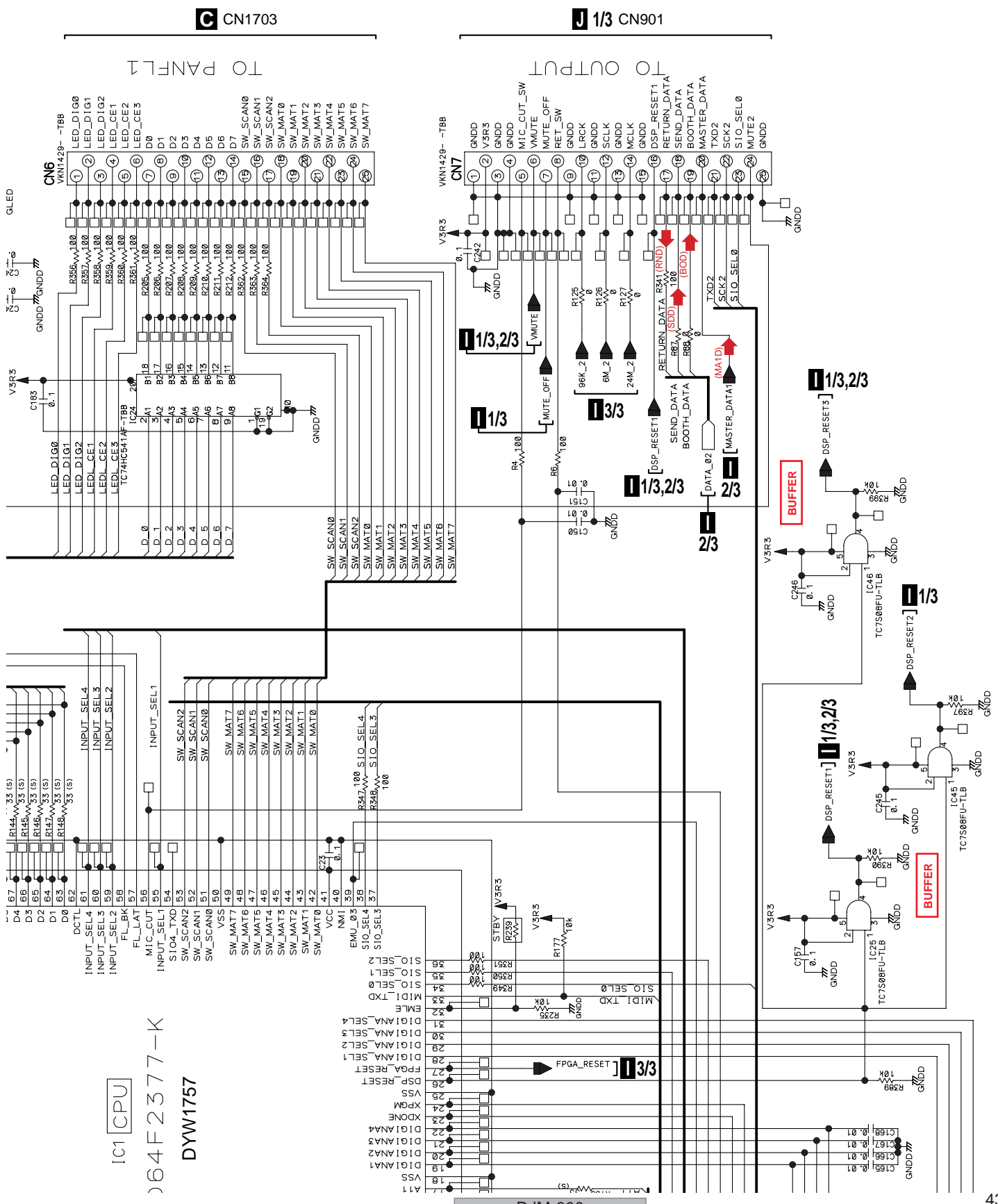
## 1/3 DSP ASSY (DWX2534)(1/2)

Large size SCH diagram



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

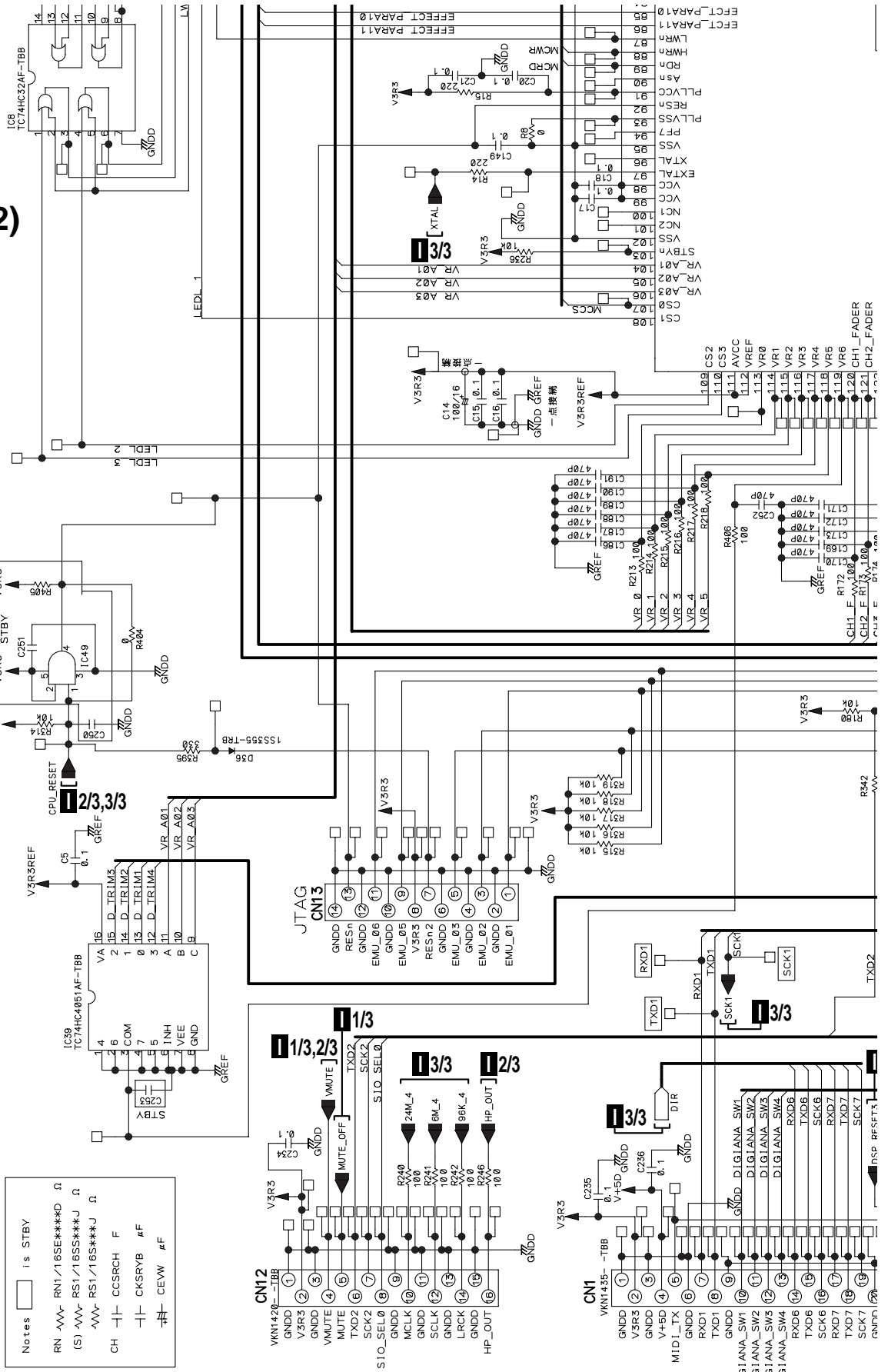
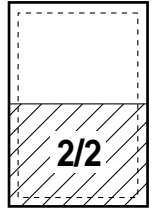
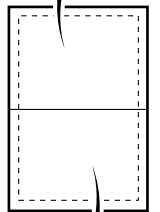
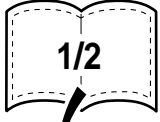




A B C D E F

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

Large size SCH diagram



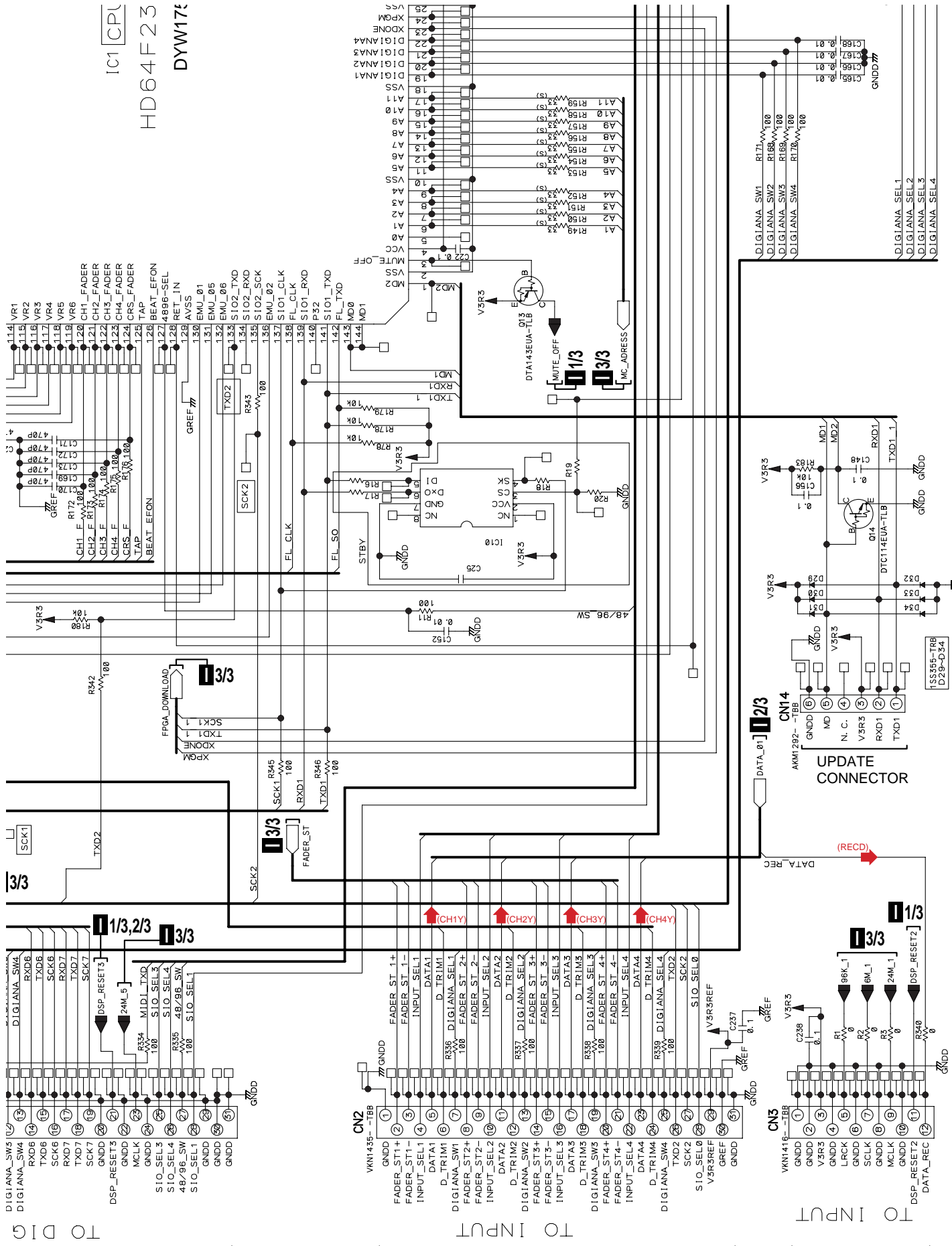
AUDIO SIGNAL ROUTE  
 (CH1Y) : SCH 1 Y CH SIGNAL  
 (CH2Y) : SCH 2 Y CH SIGNAL

TO HPAMP

CN2503

TO DIGIC

CN1205



**K** CN1205

**A** 6/6 CN452

**A** 6/6 CN451

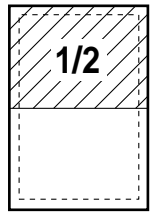
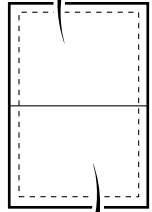
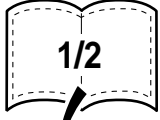
**DJM-800**

# 3.18 DSP ASSY (2/3)

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

A

Large size SCH diagram



B

C

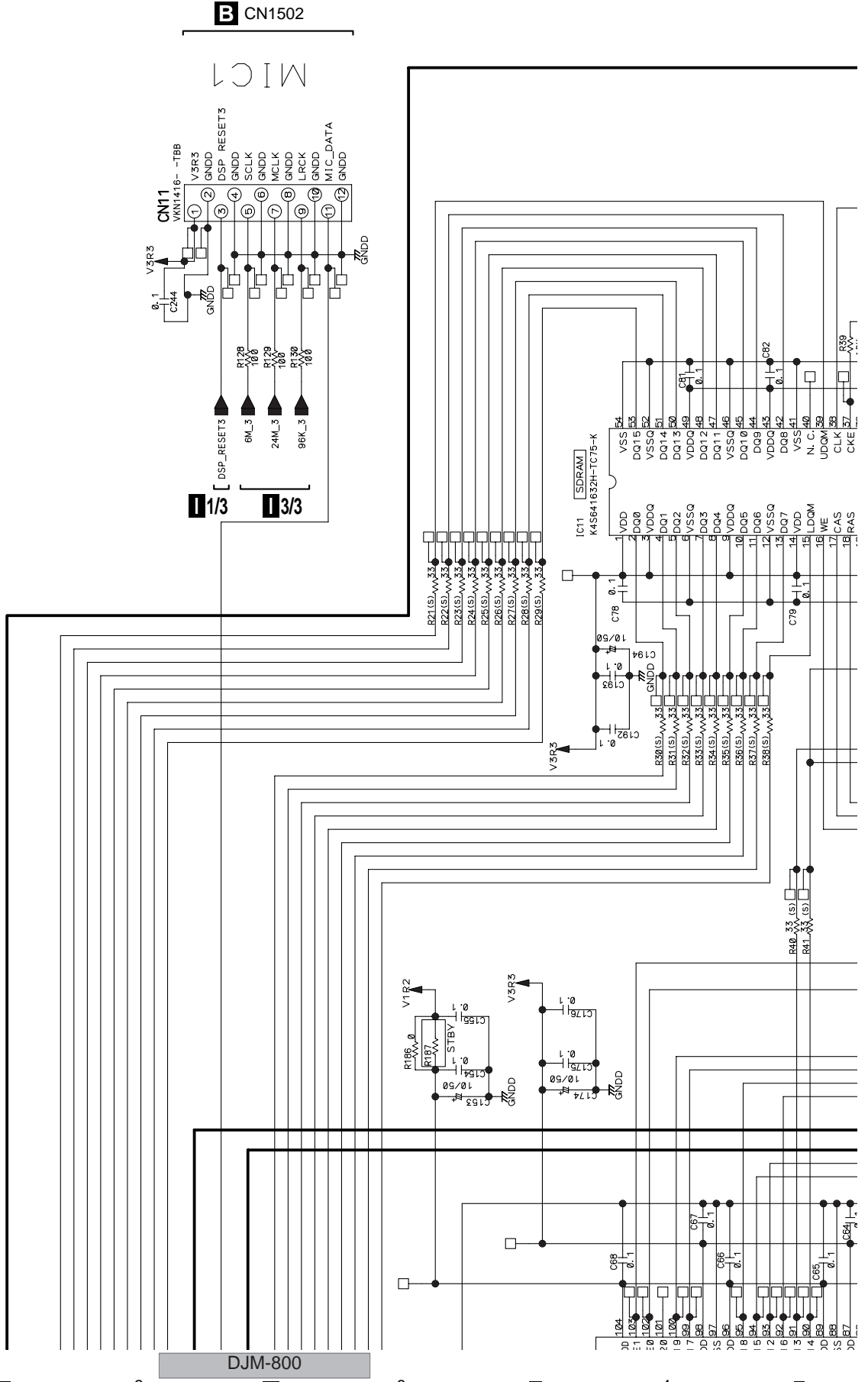
D

E

F

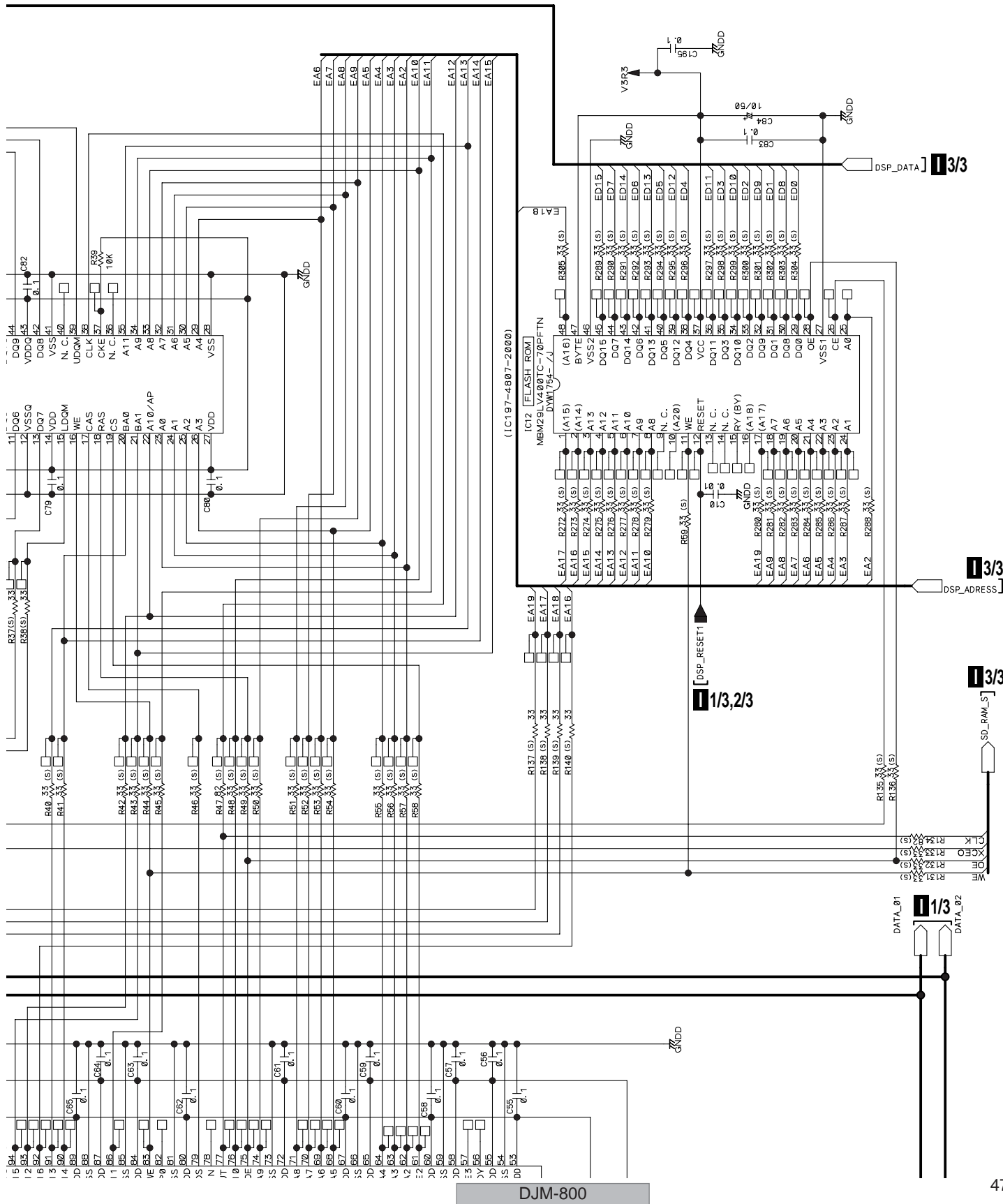
**B** CN1502

MIC1



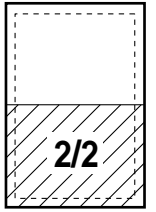
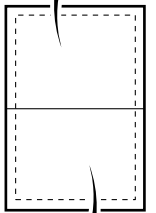
1/3

3/3



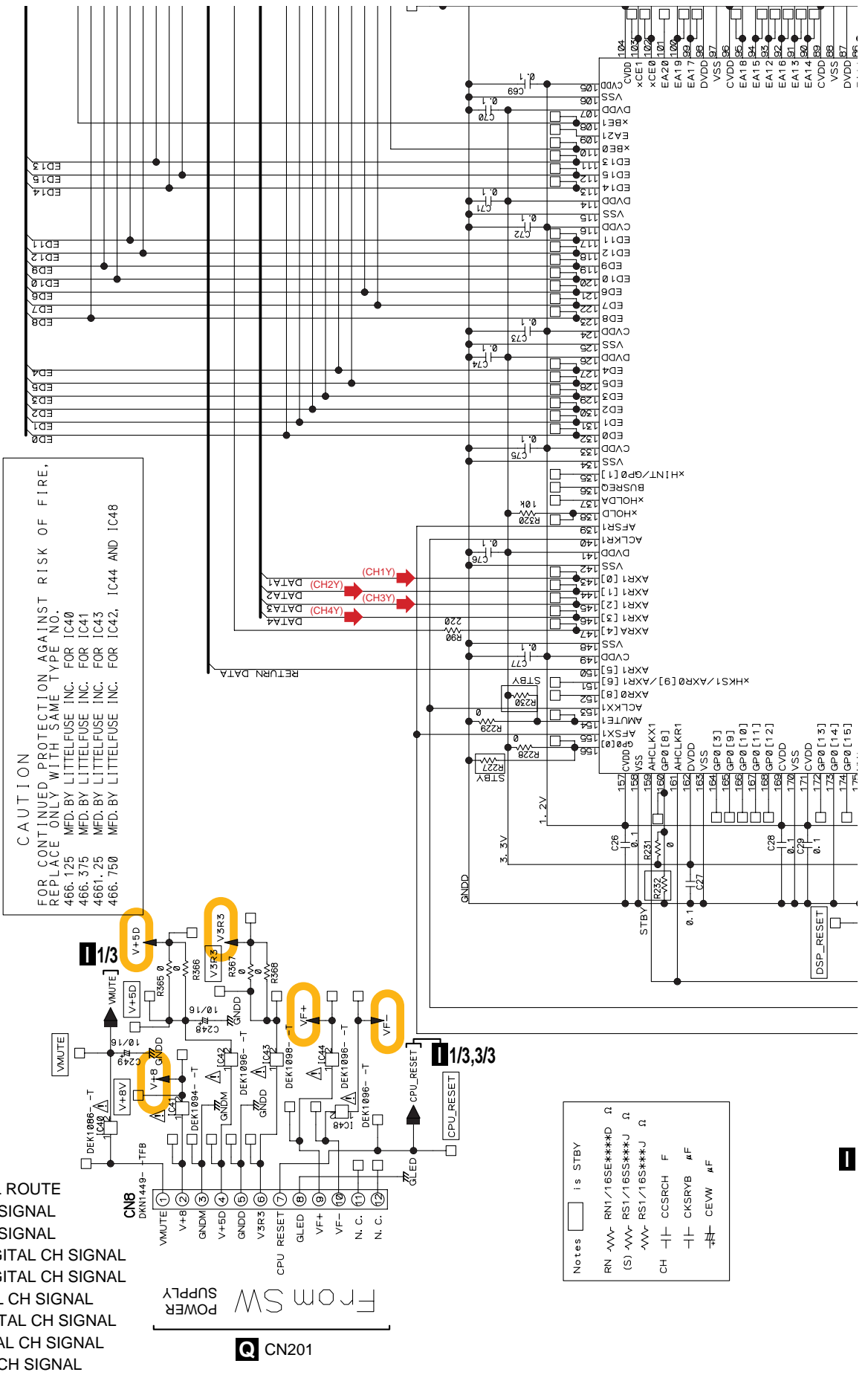
# 2/3 DSP ASSY (DWX2534) (2/2)

Large size  
SCH diagram



**CAUTION**  
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,  
REPLACE ONLY WITH SAME TYPE NO.  
466.125 MFD. BY LITTELFUSE INC. FOR IC41  
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

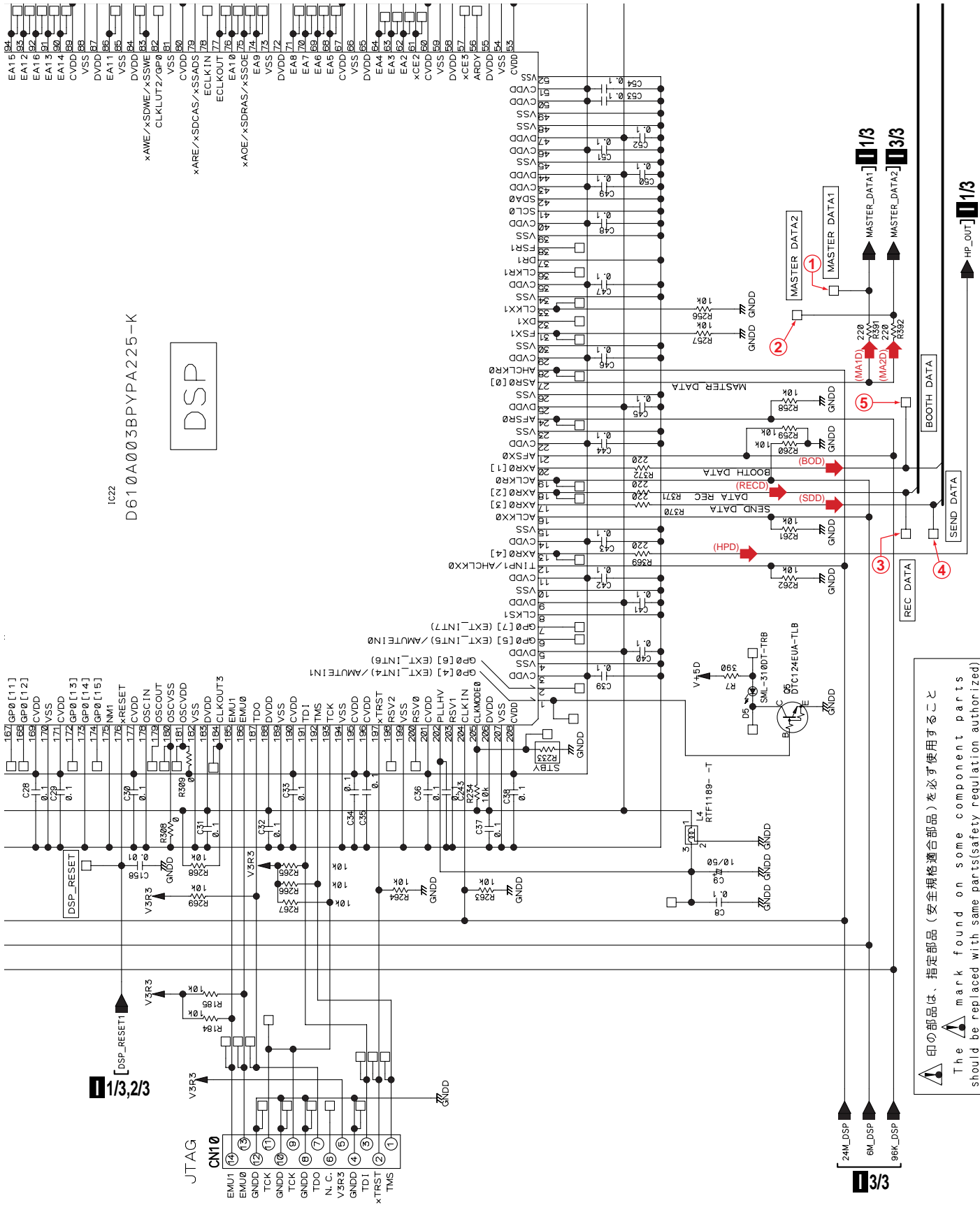
- AUDIO SIGNAL ROUTE**
- (CH1Y) → SCH 1 Y CH SIGNAL
  - (CH2Y) → SCH 2 Y CH SIGNAL
  - (MA1D) → MASTER DIGITAL CH SIGNAL
  - (MA2D) → MASTER DIGITAL CH SIGNAL
  - (RECD) → REC DIGITAL CH SIGNAL
  - (BOD) → BOOTH DIGITAL CH SIGNAL
  - (SDD) → SEND DIGITAL CH SIGNAL
  - (HPD) → HP DIGITAL CH SIGNAL



Notes

RN	RES	RES	Ω
(S)	RES	Ω	Ω
CH	CCSRCH	F	F
	CKSRVB	μF	μF
	CEWV	μF	μF

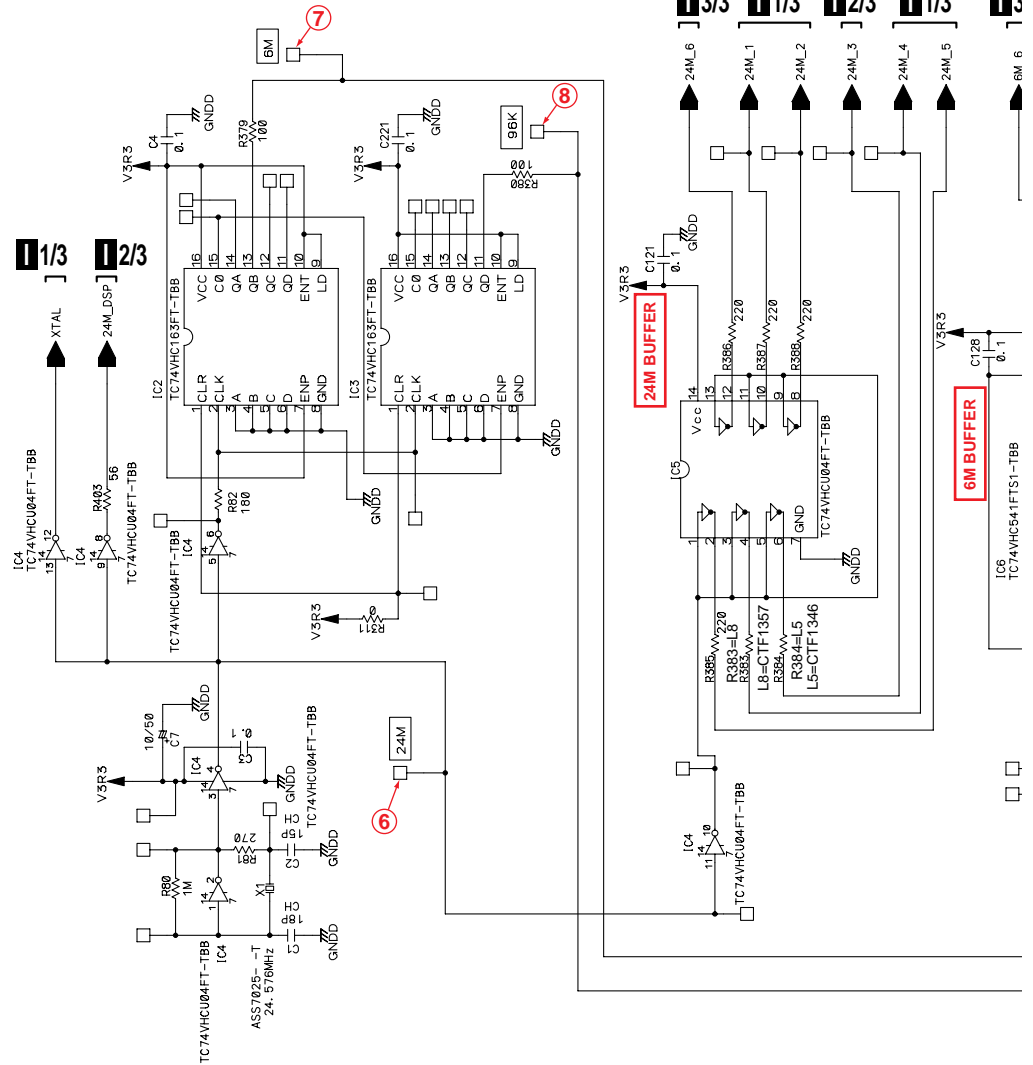
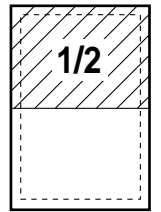
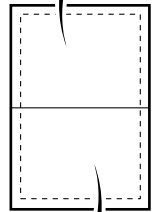




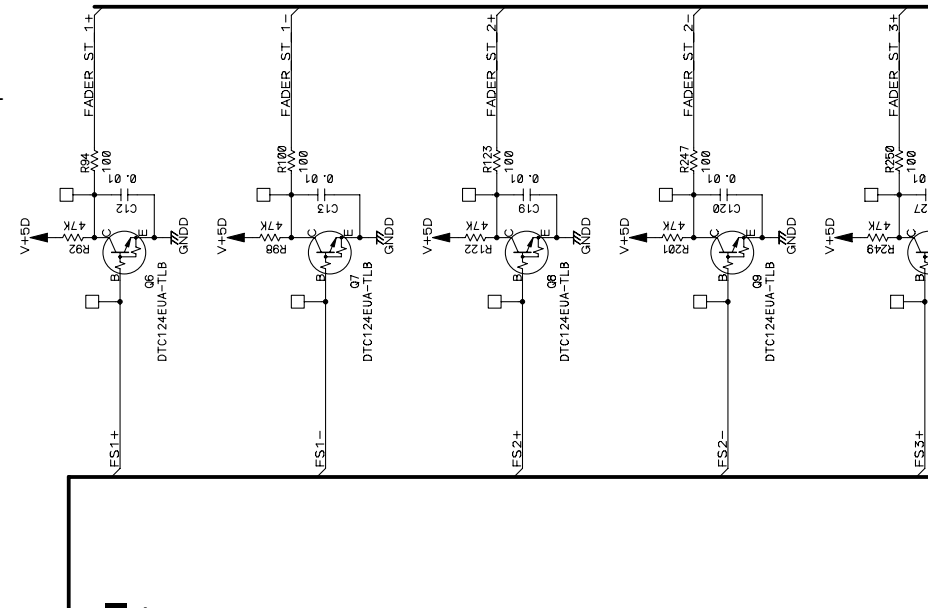
印の部品は、指定部品（安全規格適合部品）を必ず使用すること  
 The mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation

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

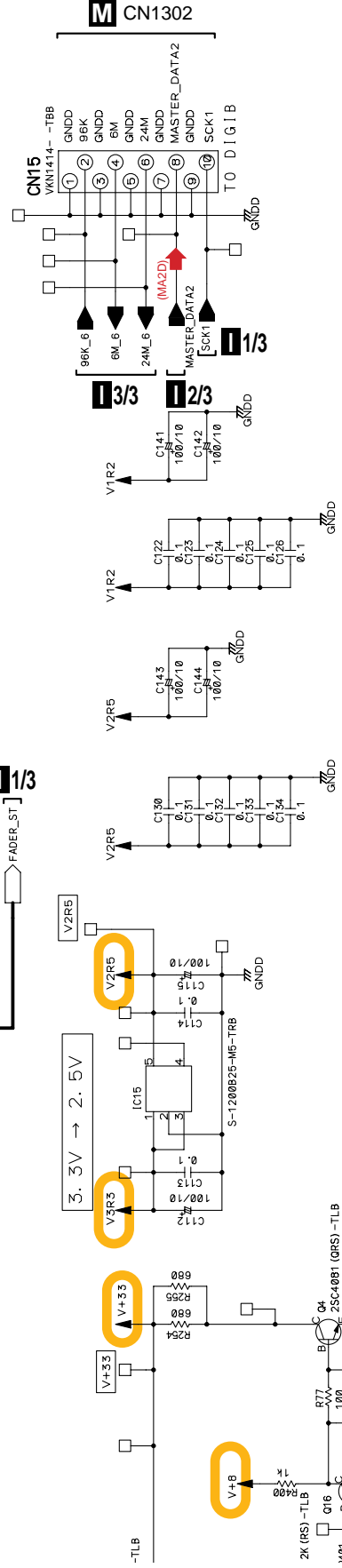
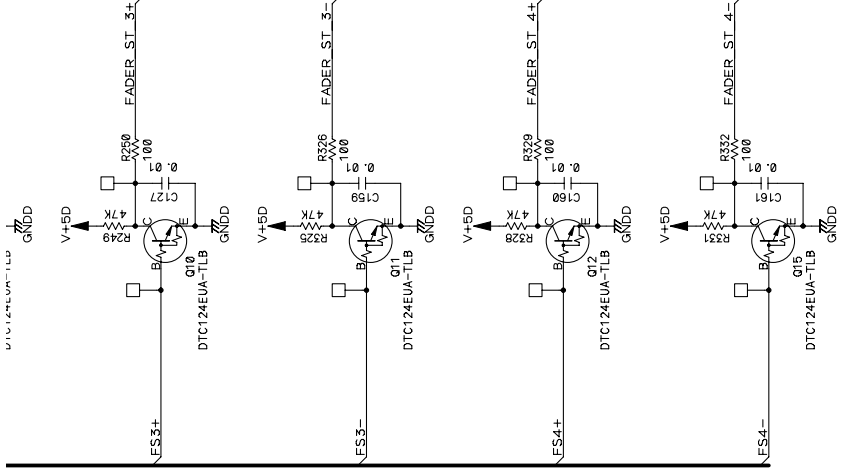
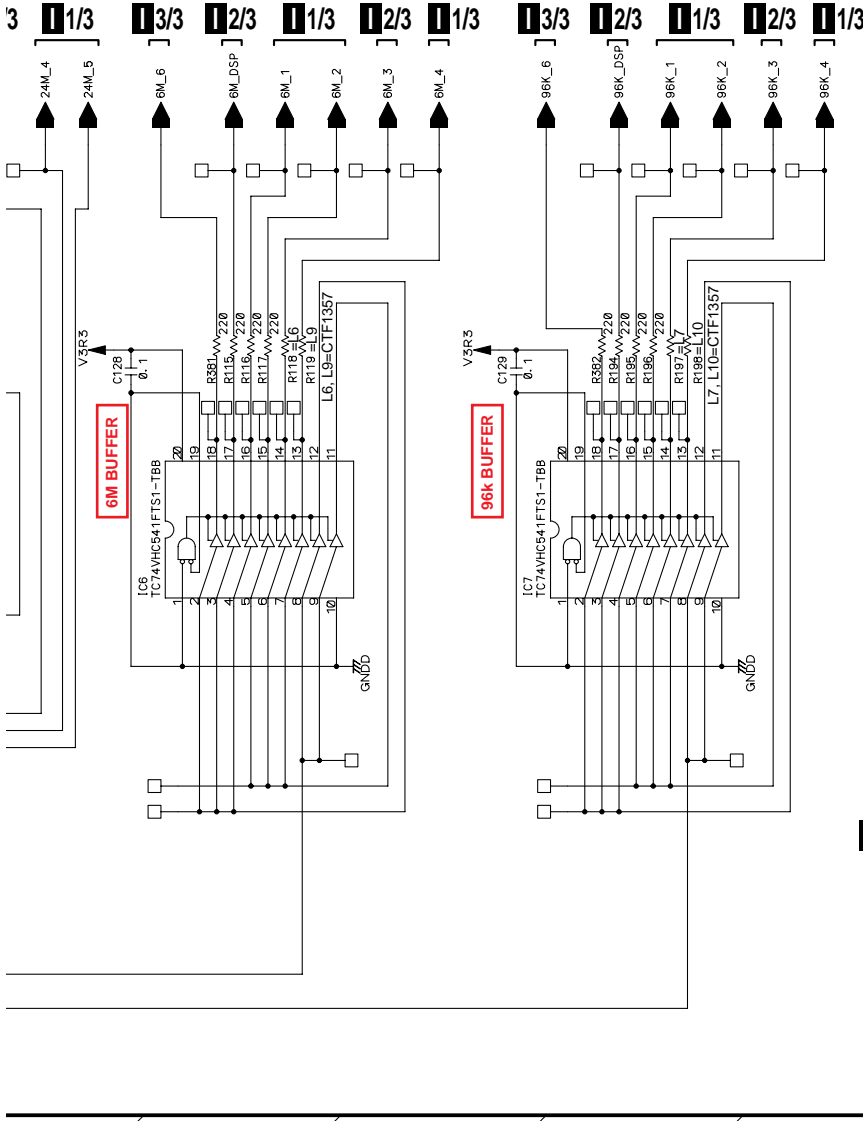
Large size SCH diagram



AUDIO SIGNAL ROUTE  
 (MA2D) → : MASTER DIGITAL CH SIGNAL

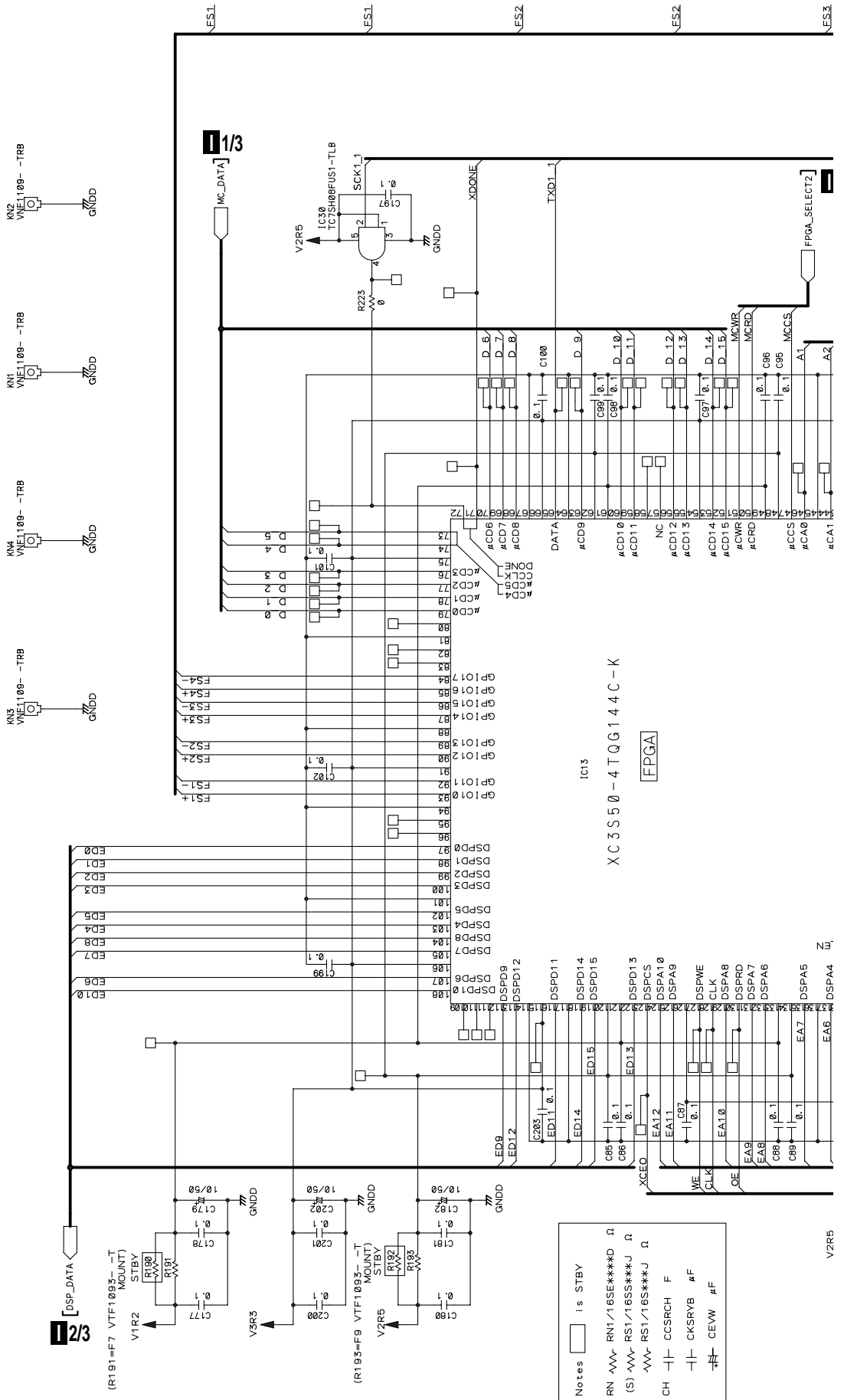
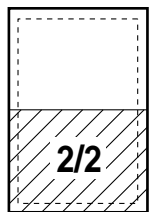
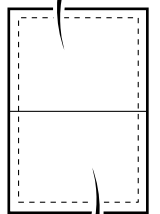
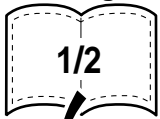


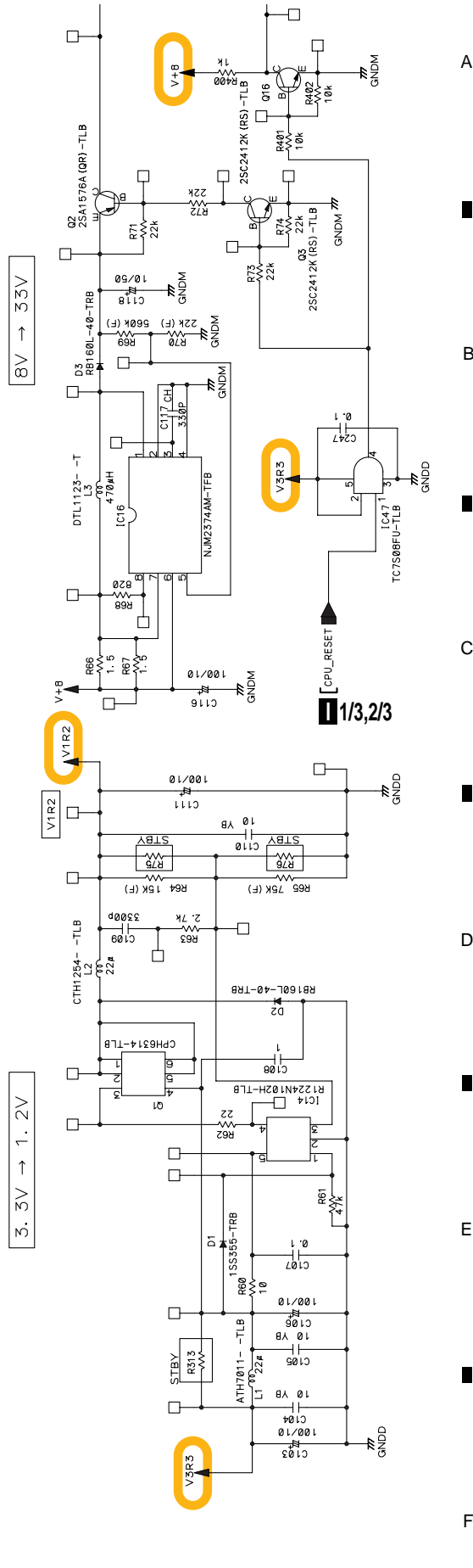
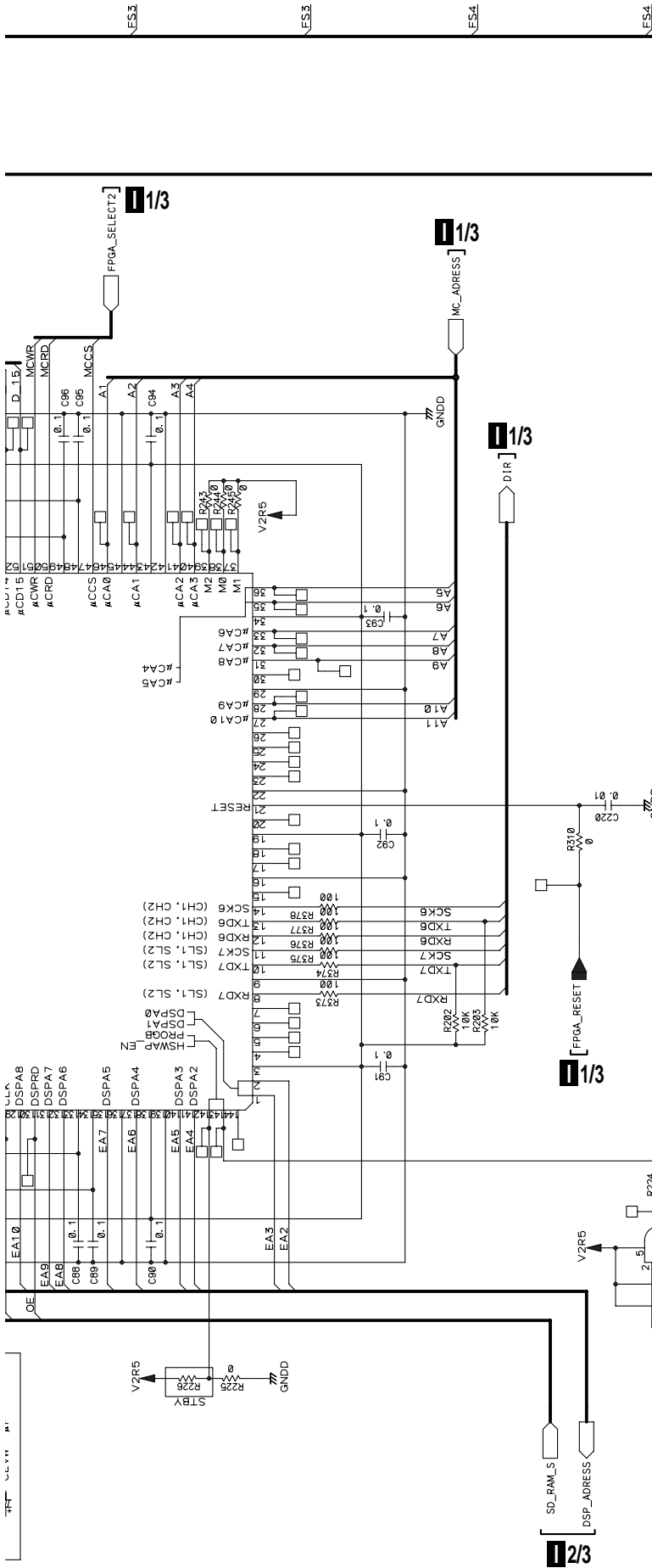
DJM-800



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

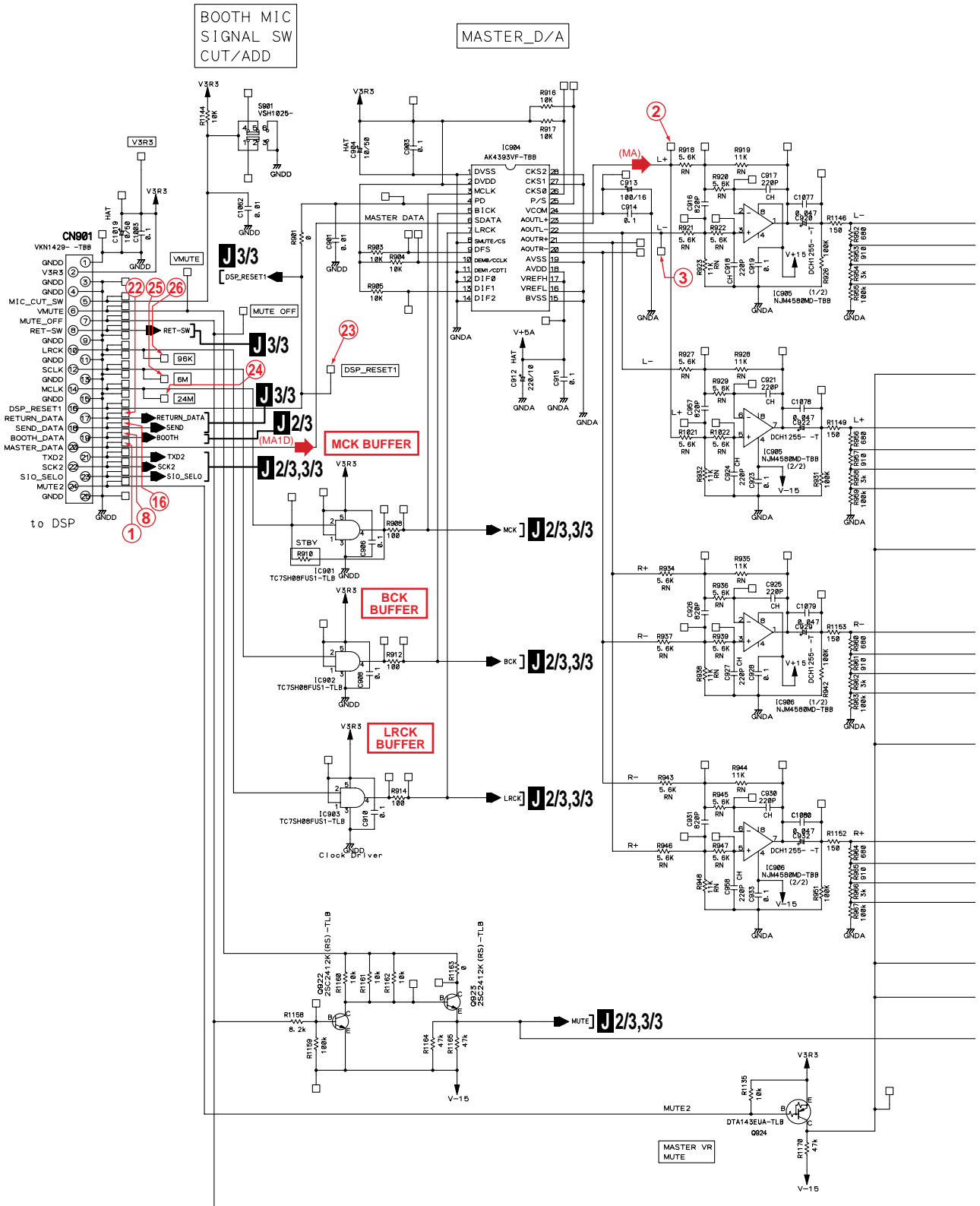
Large size  
SCH diagram



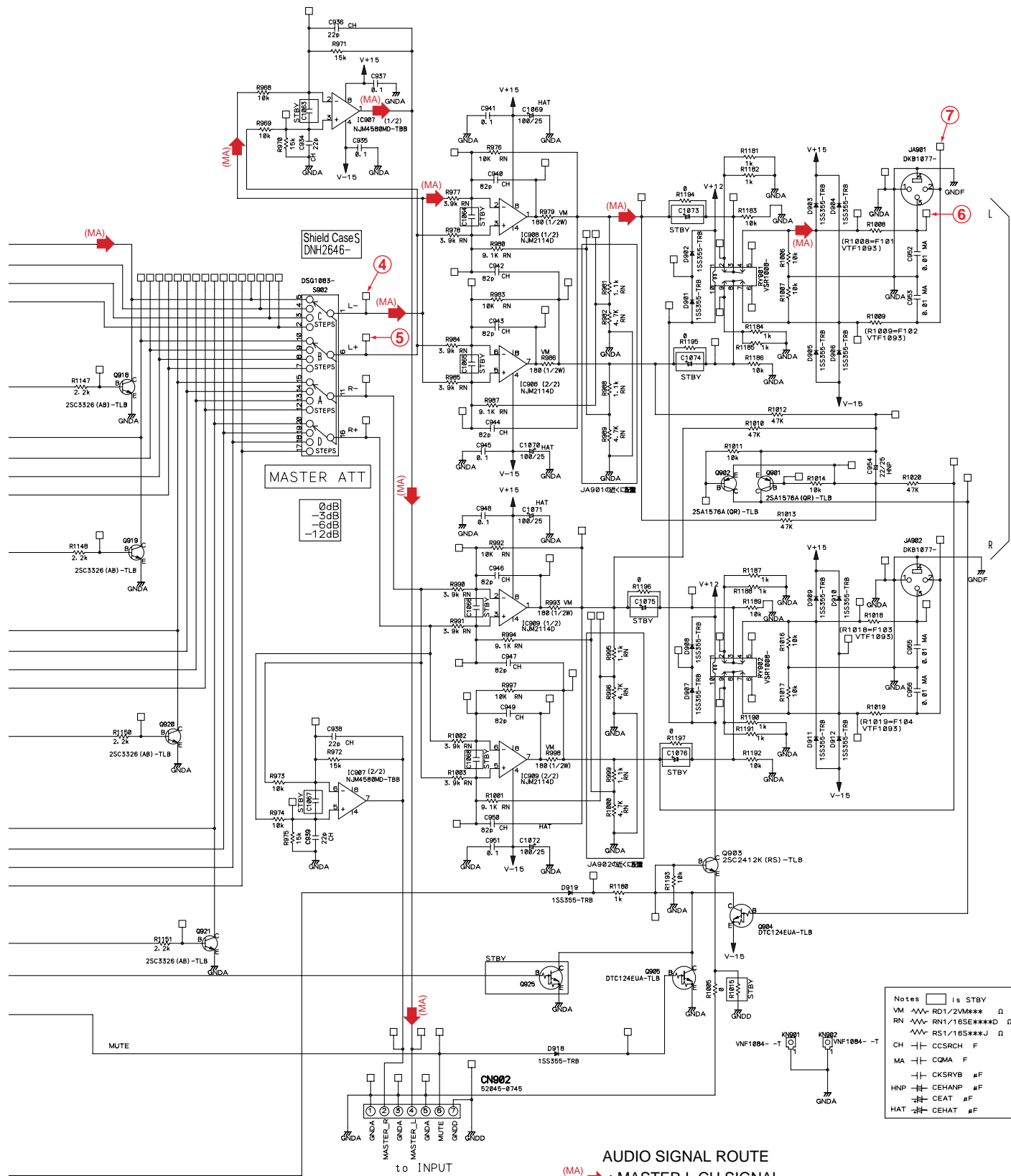


# 3.20 OUTPUT ASSY (1/3)

## J 1/3 OUTPUT ASSY (DWX2544)



## J 1/3



to INPUT  
**A 6/6 CN454**

**AUDIO SIGNAL ROUTE**

(MA) : MASTER L CH SIGNAL

(MA1D) : MASTER DIGITAL CH SIGNAL

Notes	□ is STBY
VM	VM RD1/2VM*** Ω
RN	RN/16SE***D Ω
RS	RS/16SE***J Ω
CH	CH CCSRCH F
MA	MA CGMA F
CK	CK CKSRVB #F
HNP	HNP CEHNP #F
CEAT	CEAT #F
HAT	HAT CEHAT #F

MASTEROUT1

# 3.21 OUTPUT ASSY (2/3)

## J 2/3 OUTPUT ASSY (DWX2544)

A

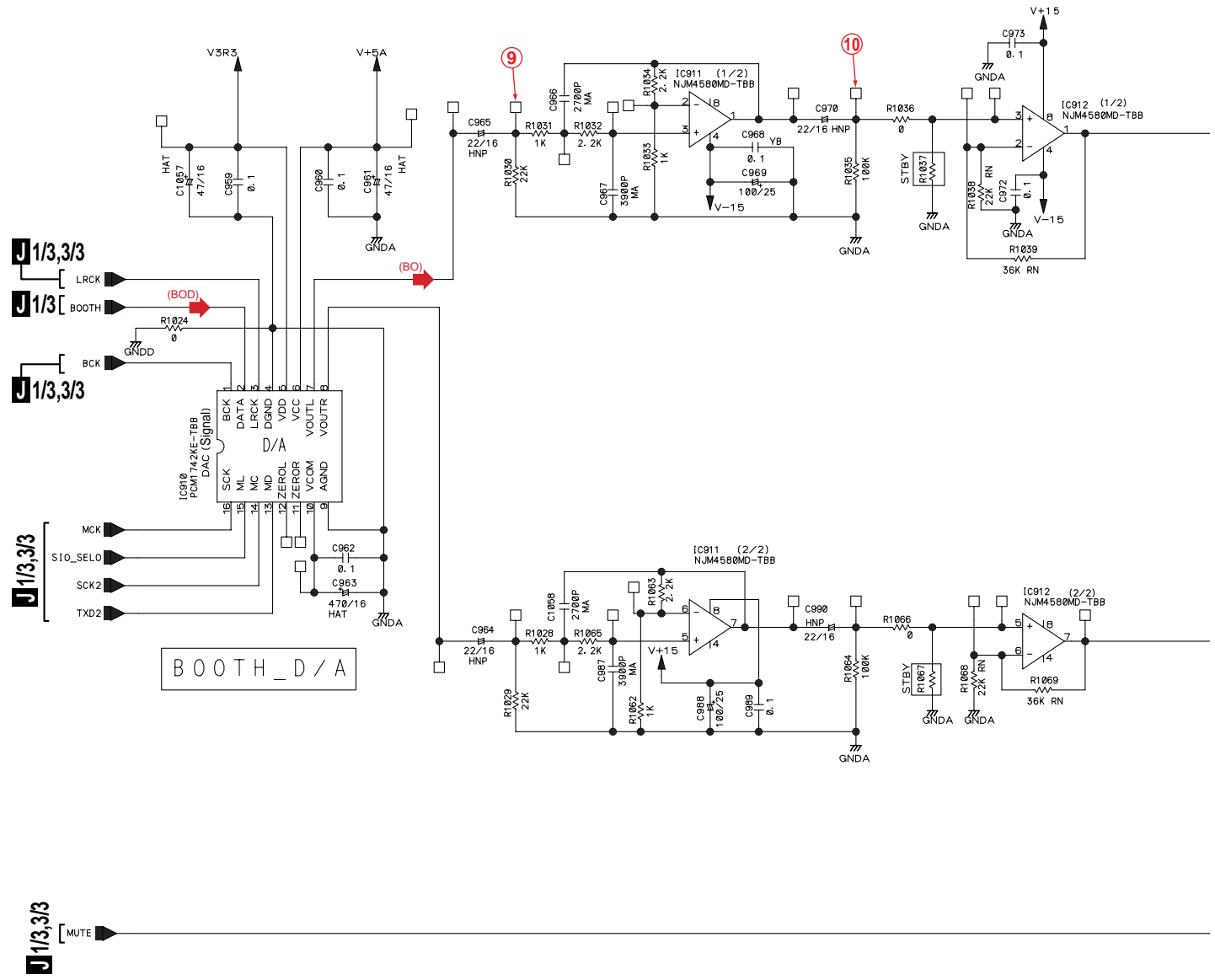
B

C

D

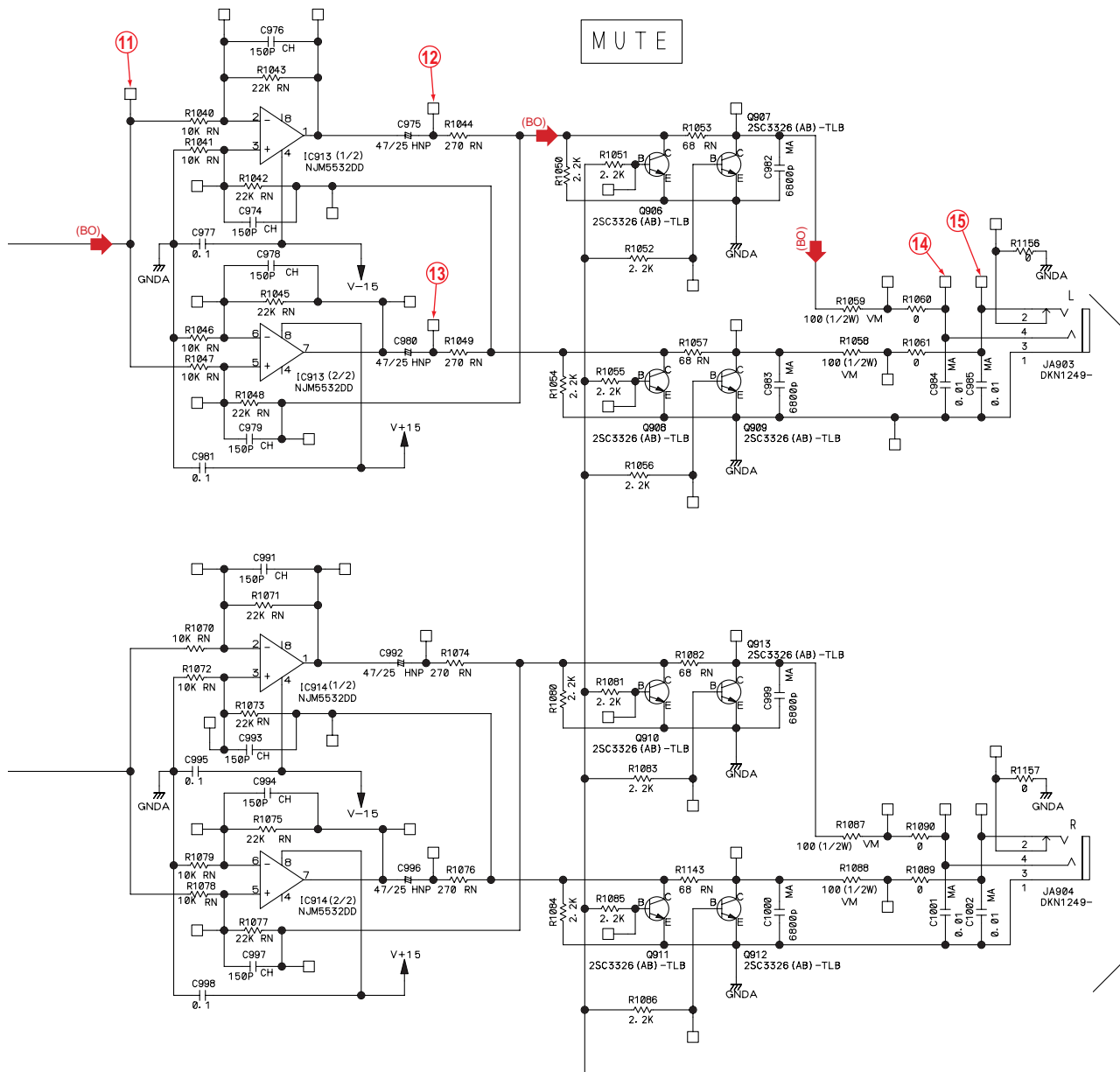
E

F



## J 2/3





BALANCE OUT BOOTH MONITOR

AUDIO SIGNAL ROUTE

- (BO) → : BOOTH L CH SIGNAL
- (BOD) → : BOOTH DIGITAL CH SIGNAL

Notes	□	is	STBY
VM		RD1/2VM***	Ω
RN		RN1/16E****D	Ω
		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

J 1/3,2/3

J 1/3 [SEND]

J 1/3,2/3

J 1/3,2/3

J 1/3,2/3 [MUTE]

D

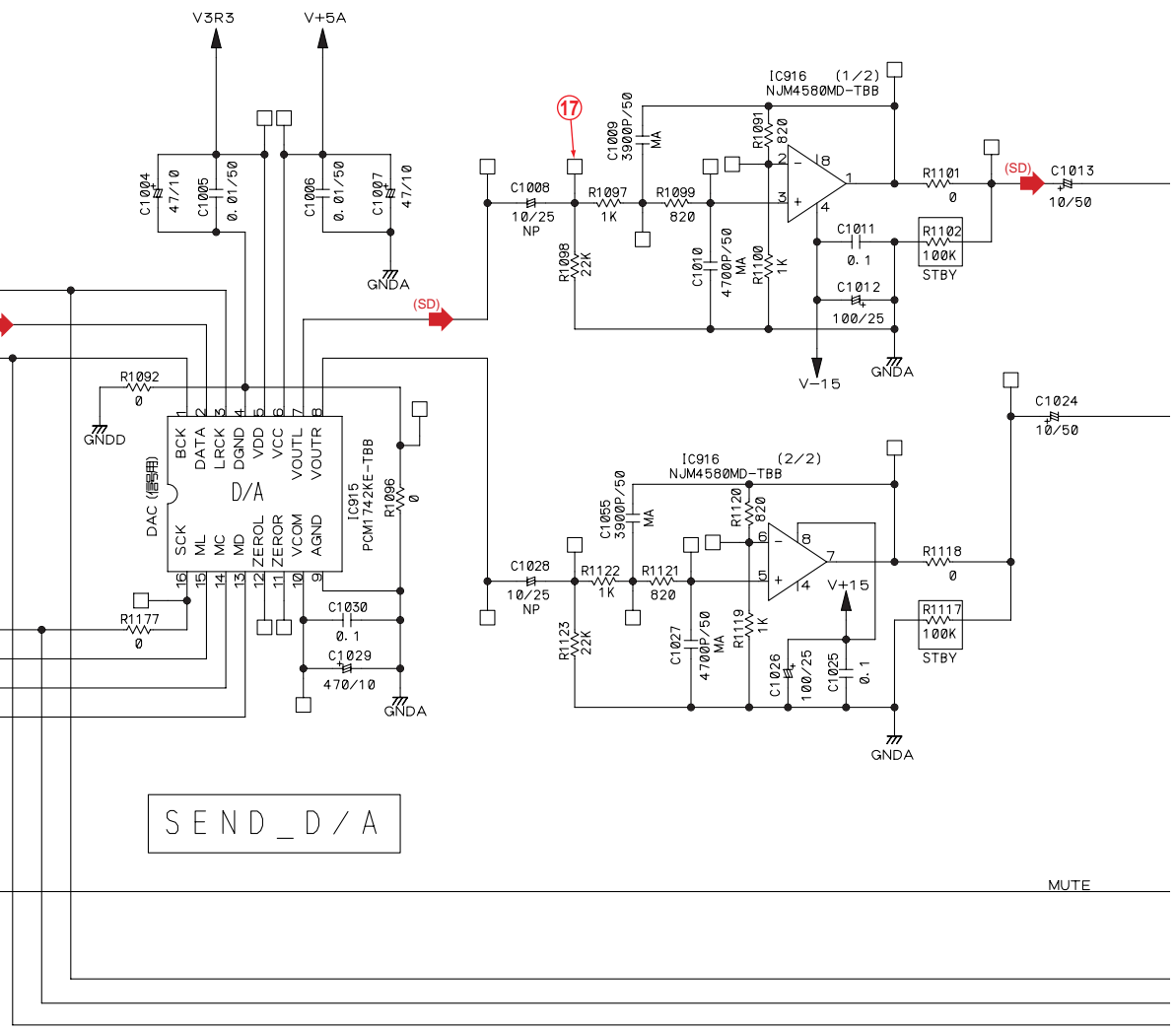
E

F

J 3/3

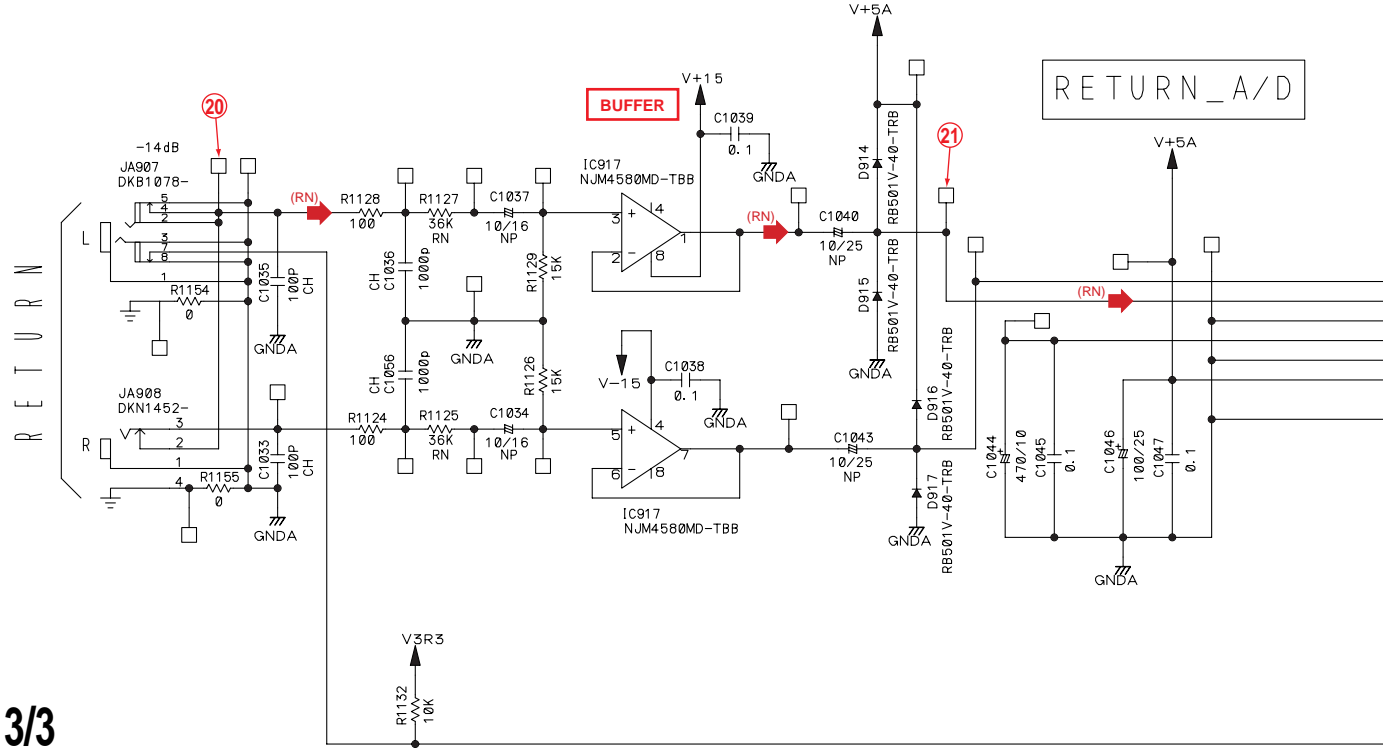
58

1 2 3 4



SEND\_D/A

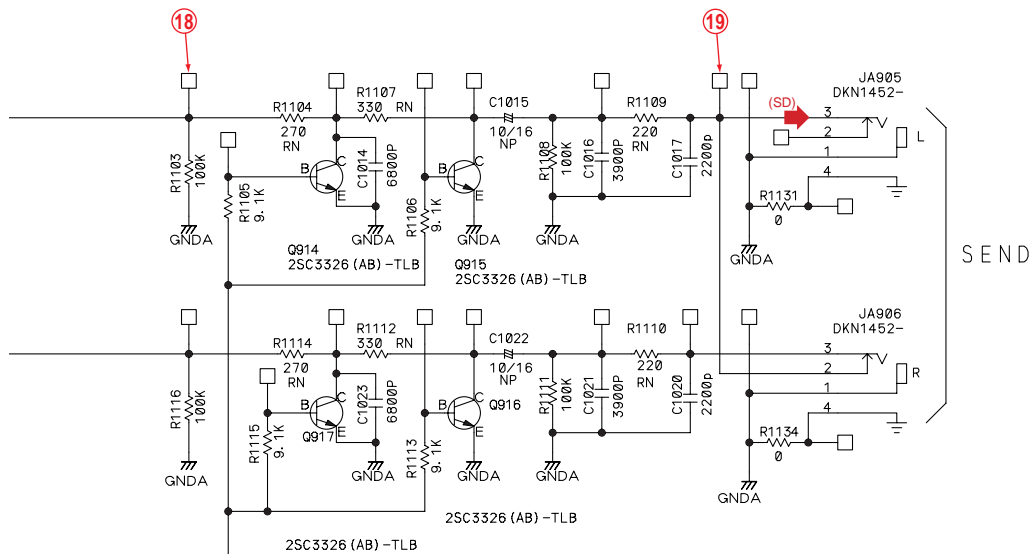
MUTE



BUFFER

RETURN\_A/D

1 2 3 4



Notes is STBY

RN RN1/16SE\*\*\*\*D Ω

CH RS1/16S\*\*\*\*J Ω

MA CQMA F

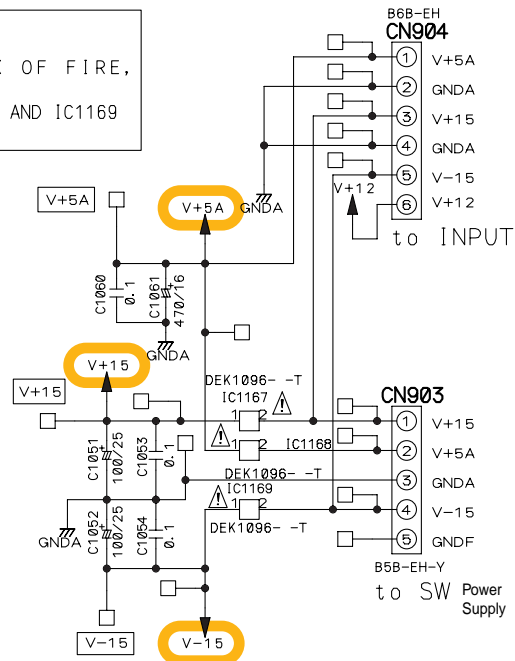
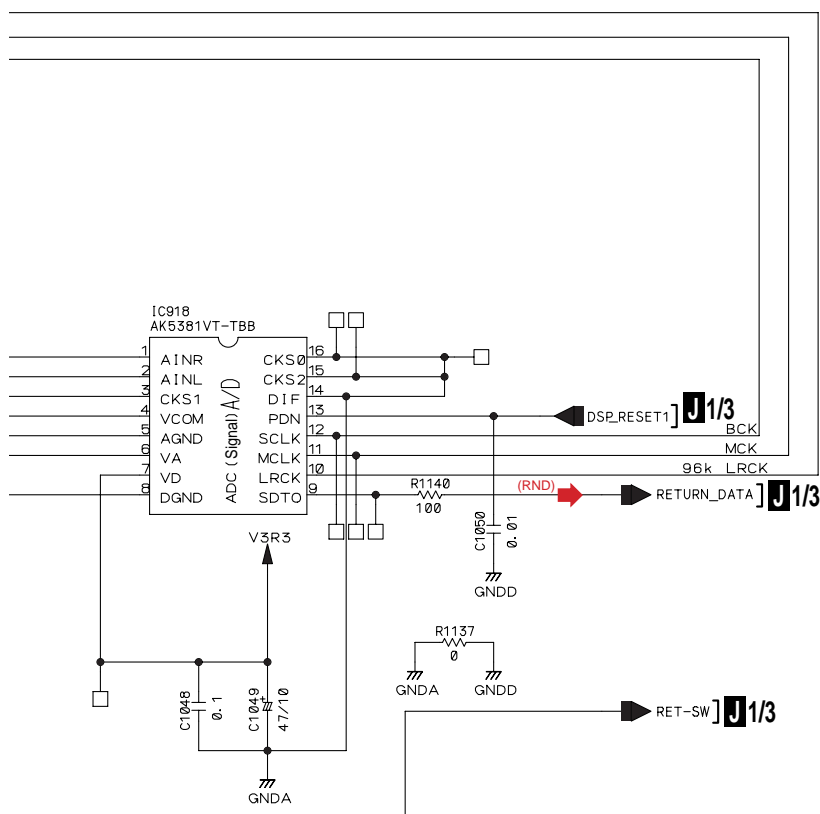
CKSRYB μF

CEAT μF

CEANP μF

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

**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



**A** 6/6 CN455

**C** CN202

- AUDIO SIGNAL ROUTE**
- (SD) : SEND L CH SIGNAL
  - (SDD) : SEND DIGITAL CH SIGNAL
  - (RN) : RETURN L CH SIGNAL
  - (RND) : RETURN DIGITAL CH SIGNAL

**J** 3/3

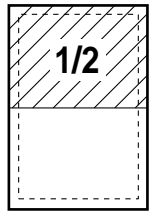
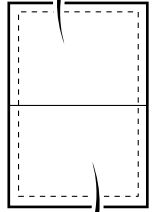
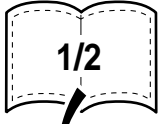
# 3.23 DIGIC ASSY

## K DIGIC ASSY (DWX2547)(1/2)

A

1/3 CN1

Large size SCH diagram



B

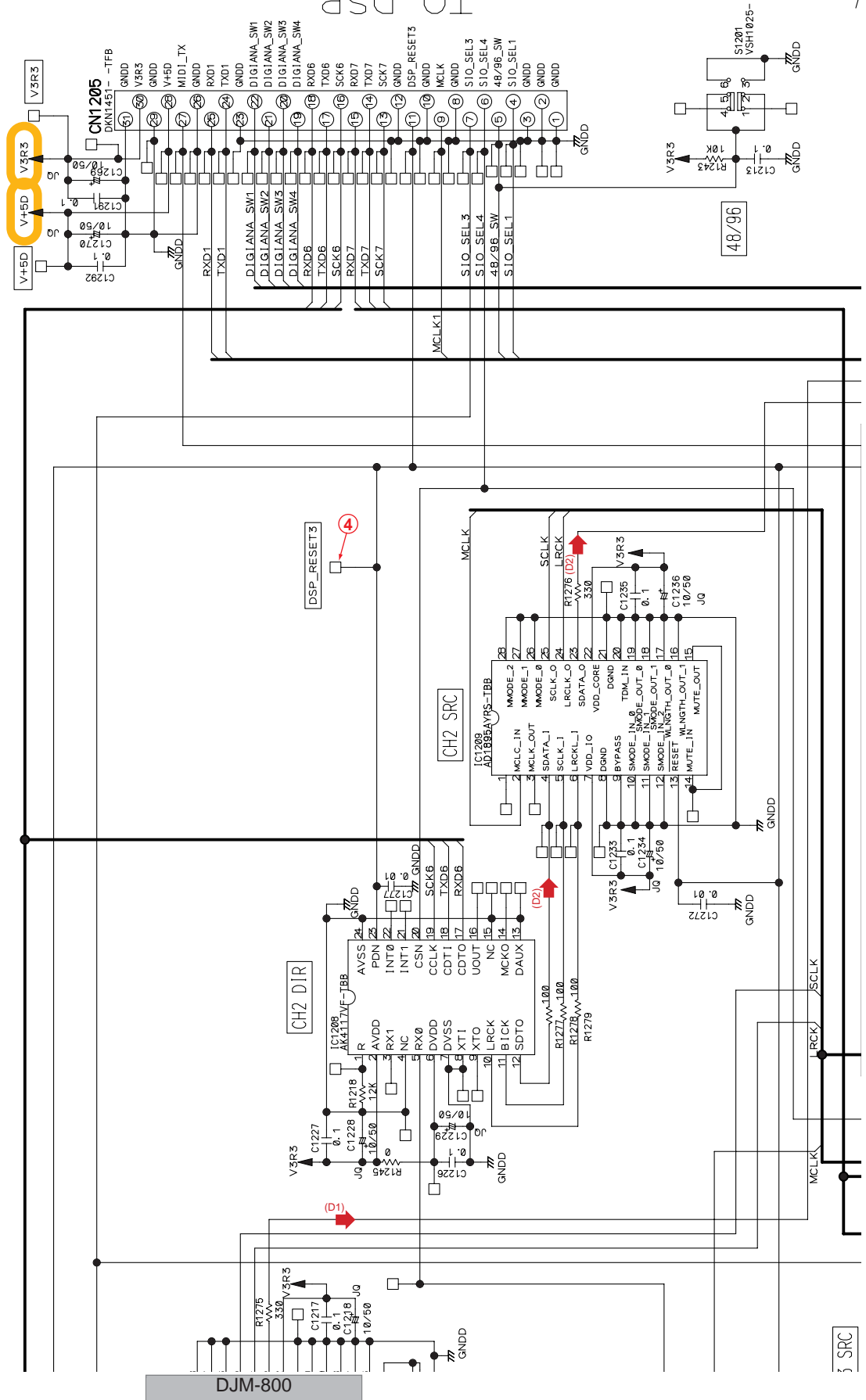
C

D

E

F

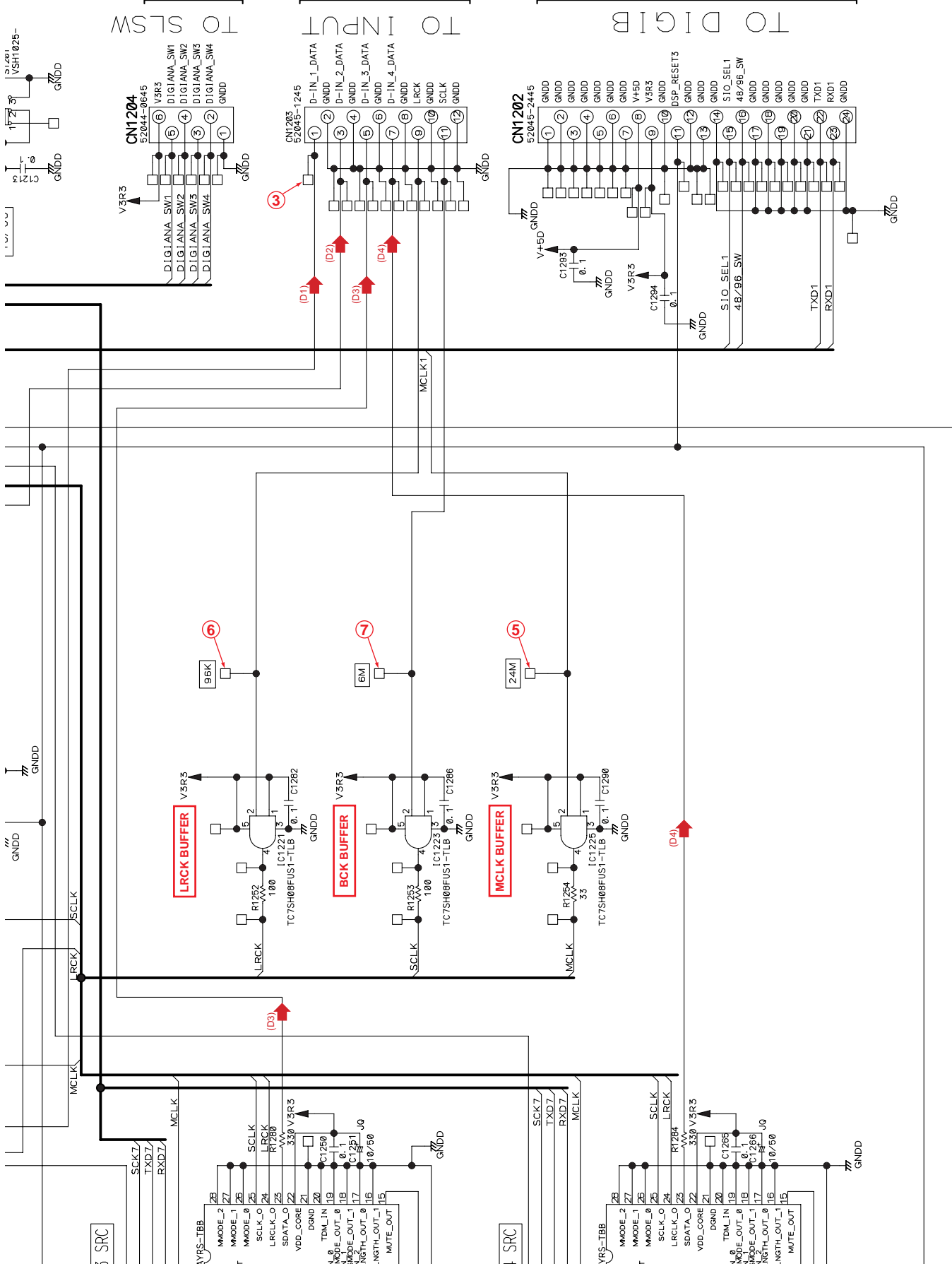
- AUDIO SIGNAL ROUTE
- (D1) : CH 1 DIGITAL SIGNAL
  - (D2) : CH 2 DIGITAL SIGNAL
  - (D3) : CH 3 DIGITAL SIGNAL
  - (D4) : CH 4 DIGITAL SIGNAL



**N** CN2401

**A** 6/6 CN453

**M** CN1301



3 SRC

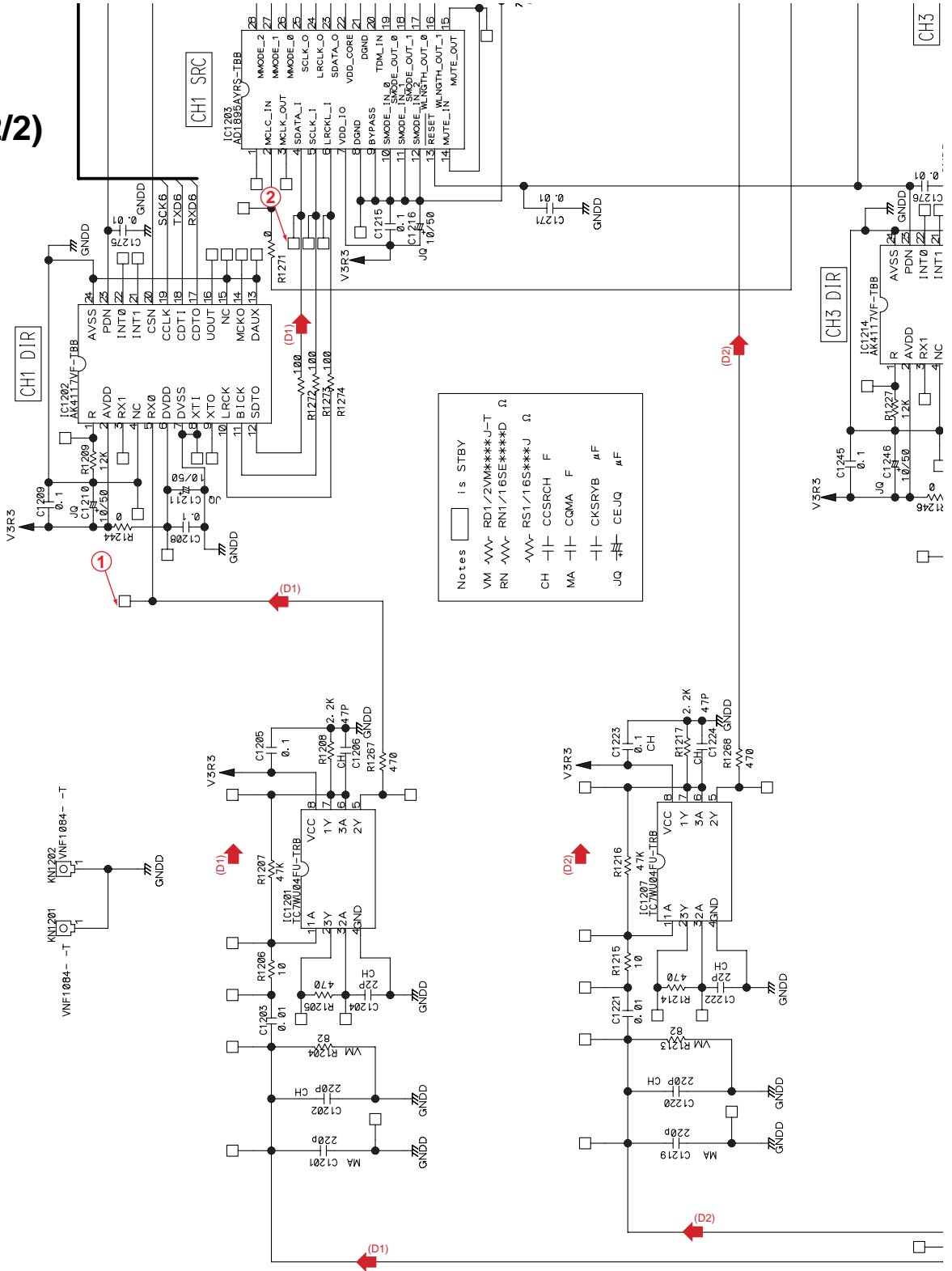
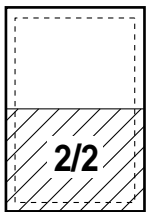
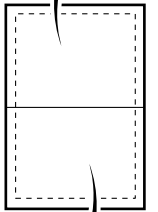
1 SRC

DJM-800

A B C D E F

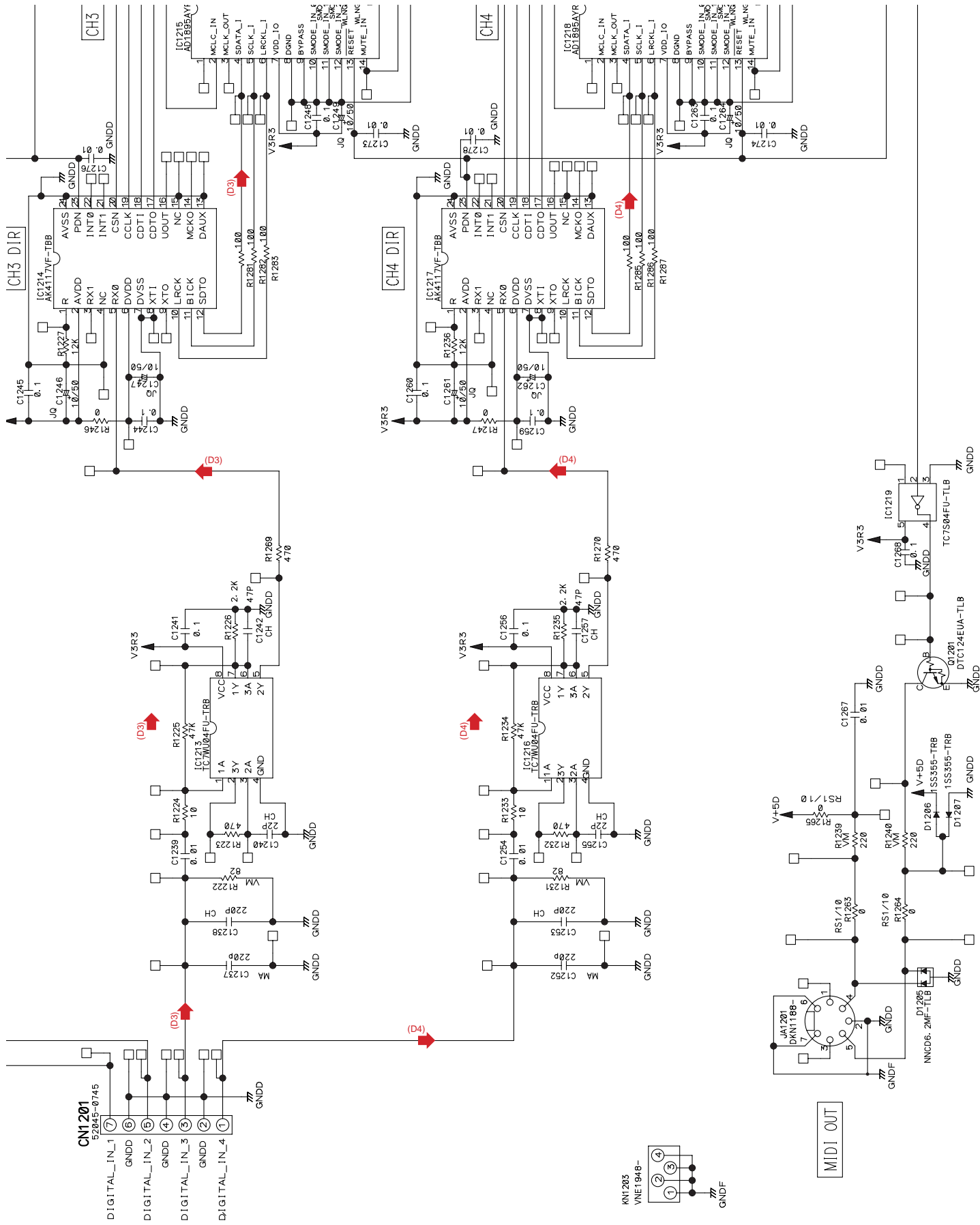
# K DIGIC ASSY (DWX2547)(2/2)

Large size SCH diagram

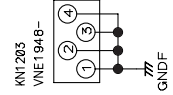


AUDIO SIGNAL ROUTE  
 (D1) → CH 1 DIGITAL SIGNAL  
 (D2) → CH 2 DIGITAL SIGNAL  
 (D3) → CH 3 DIGITAL SIGNAL  
 (D4) → CH 4 DIGITAL SIGNAL

CH1 201  
 52045-0745



TO DIGIA  
CN1201  
52045-0745



MIDI OUT

CN1401

DJM-800

A  
B  
C  
D  
E  
F

5 6 7 8

5 6 7 8

# 3.24 DIGIB ASSY

## M DIGIB ASSY (DWX2546)

A

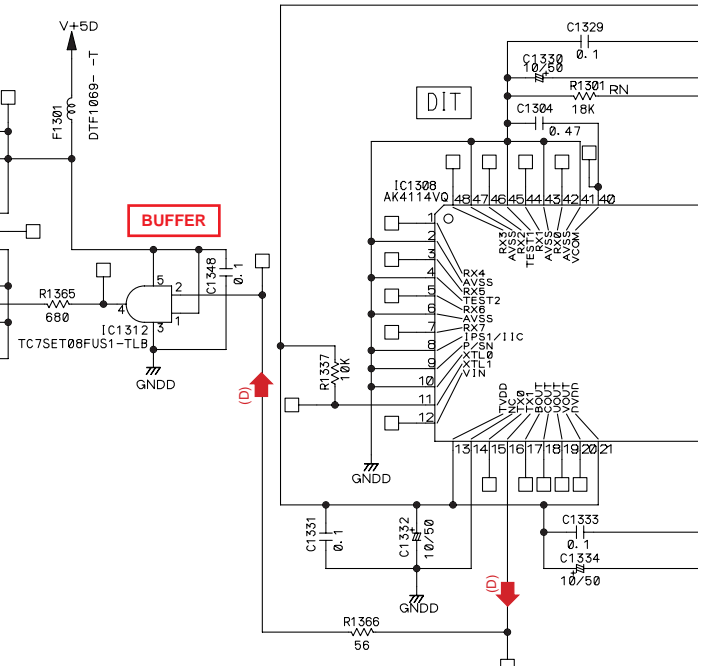
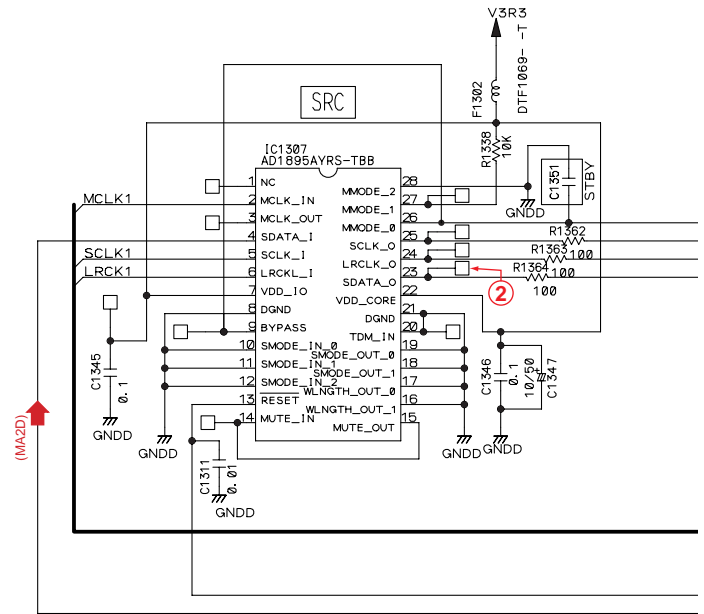
B

C

D

E

F



Notes    is STBY

RN  $\sim$  RN1/16SE\*\*\*D  $\Omega$

$\sim$  RS1/16S\*\*\*J  $\Omega$

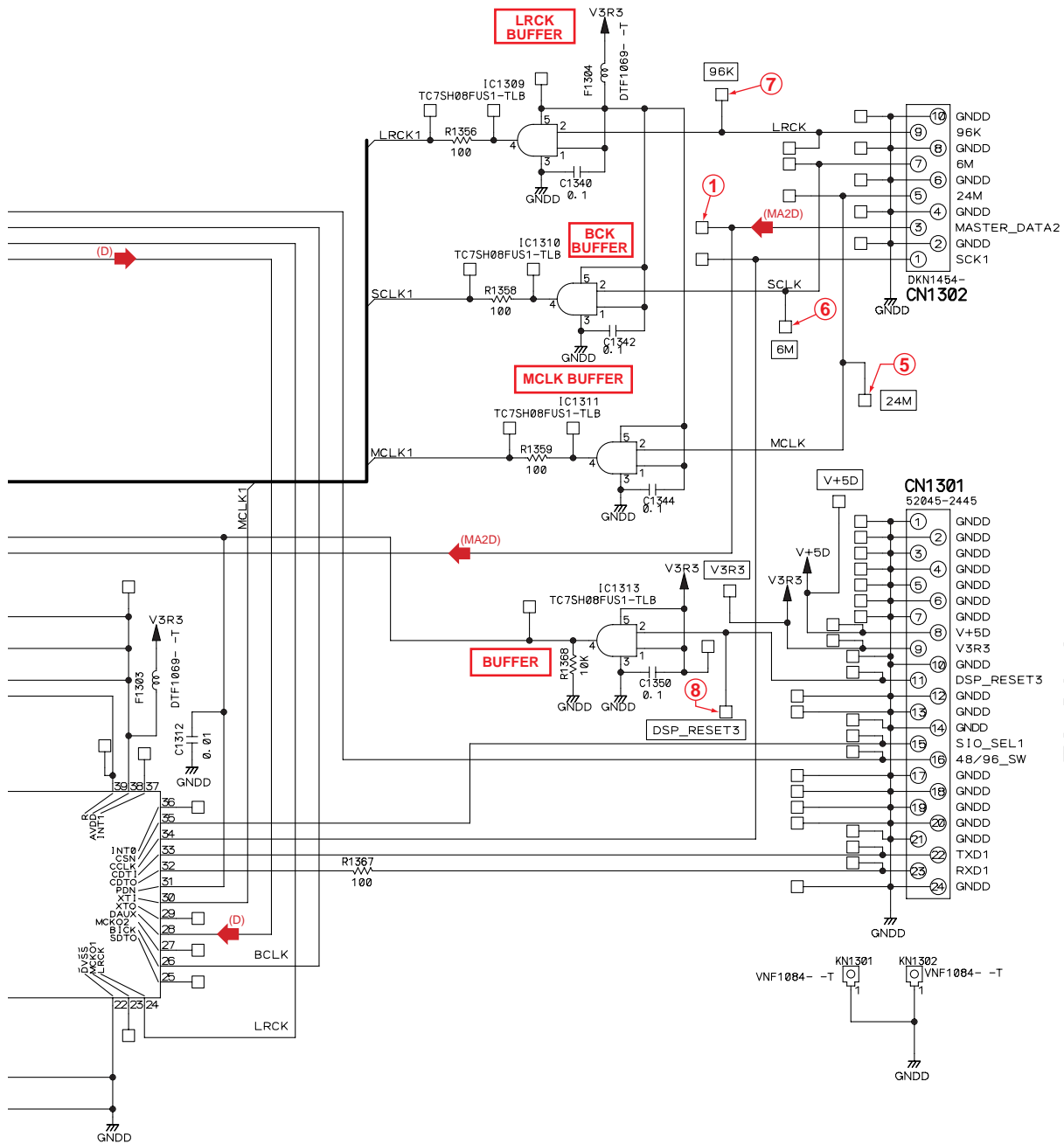
CH  $\text{---}$  CCSRCH F

$\text{---}$  CKSRYB  $\mu$ F

$\text{---}$  CEAT  $\mu$ F







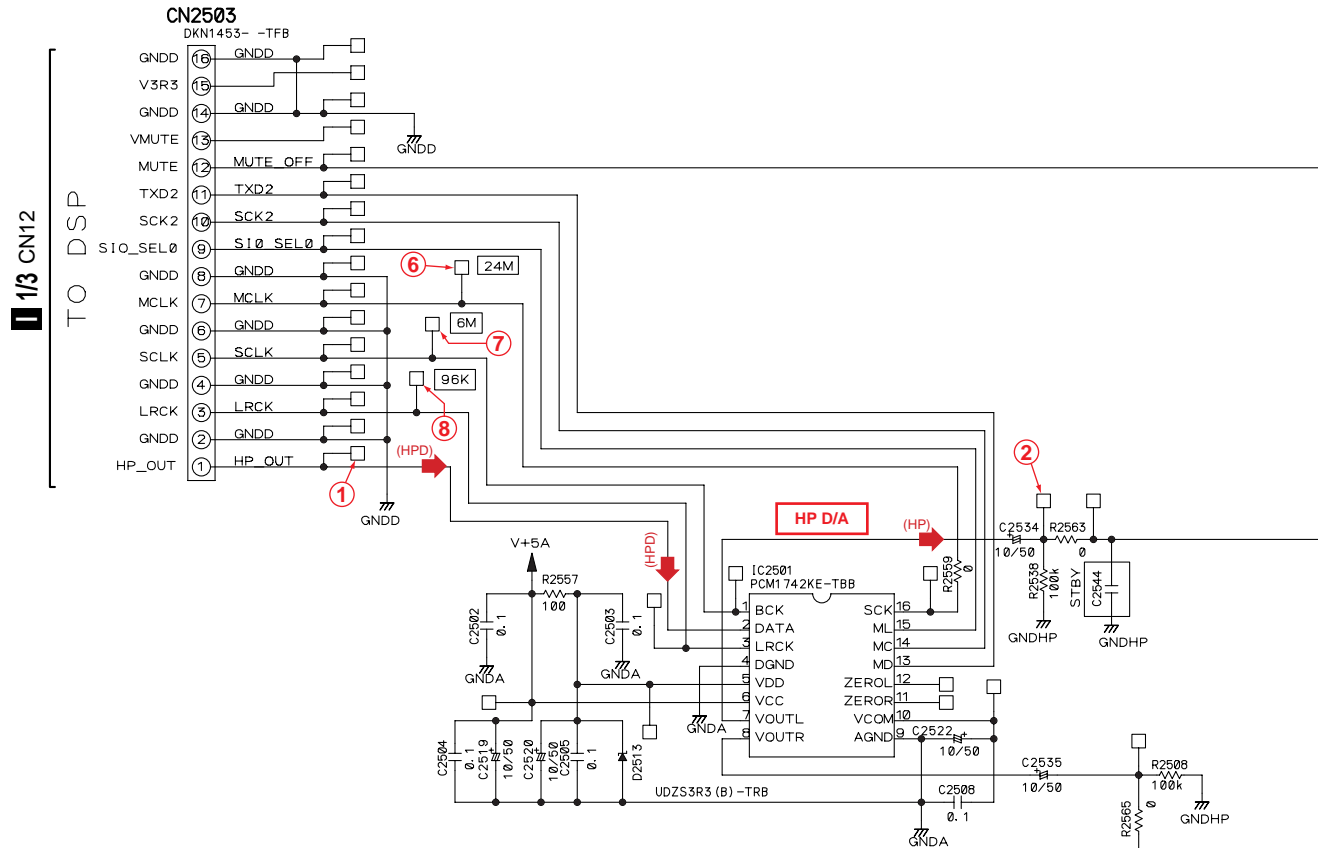
TO DSP  
**J** 3/3 CN15

TO DIGIC  
**K** CN1202

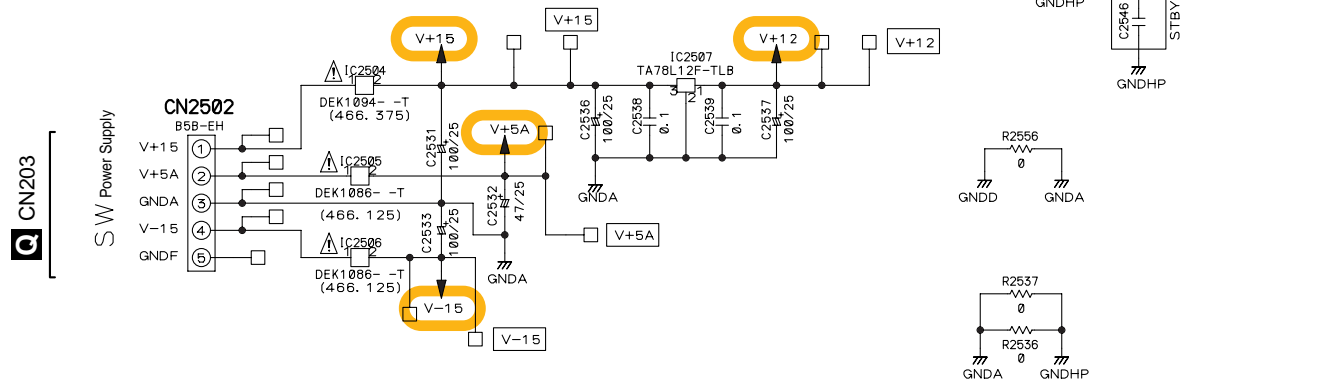
AUDIO SIGNAL ROUTE  
 (D) ➔ : DIGITAL CH SIGNAL  
 (MA2D) ➔ : MASTER DIGITAL CH SIGNAL

# 3.25 HPAMP ASSY

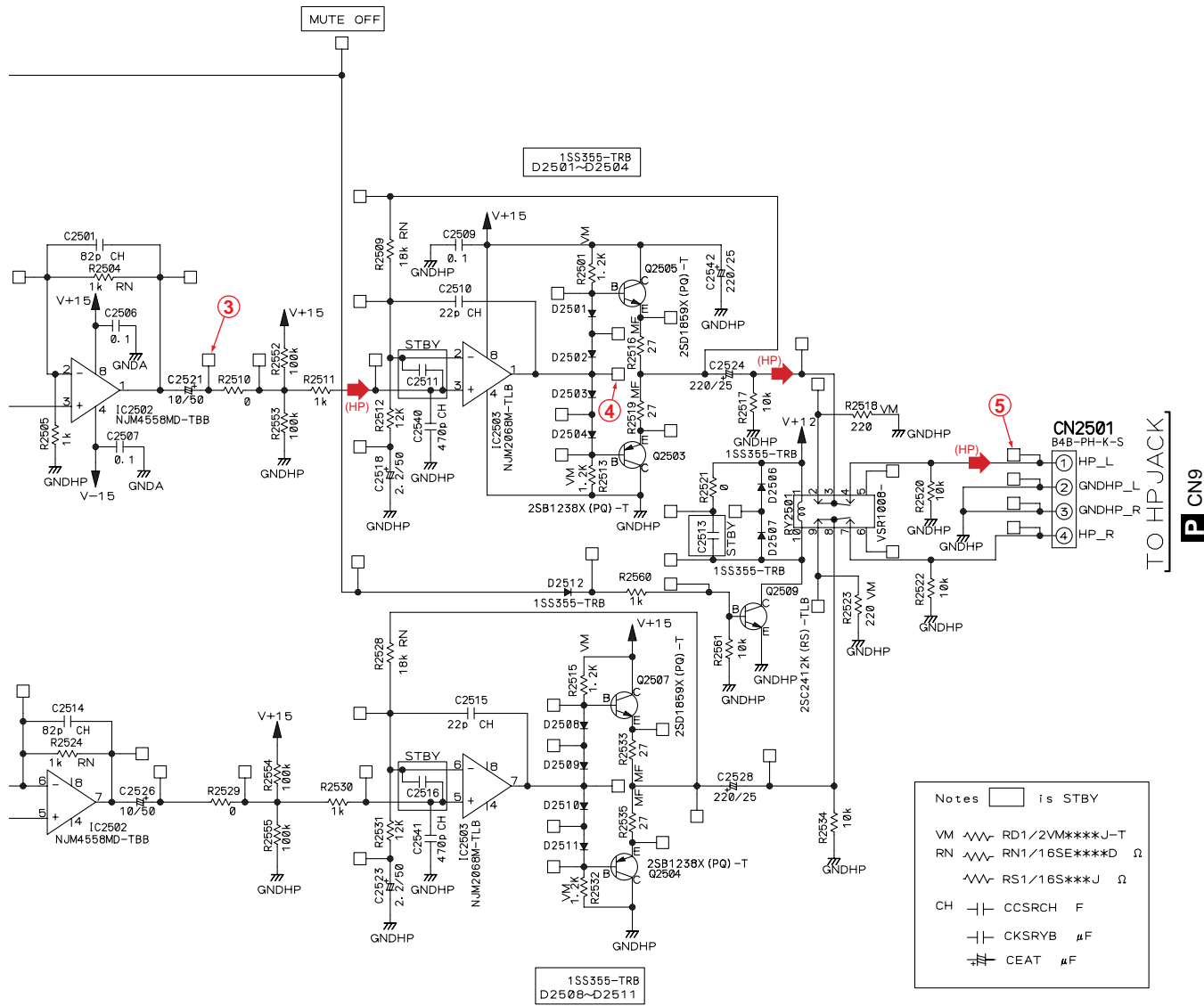
## HPAMP ASSY (DWX2556)



**CAUTION**  
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,  
REPLACE ONLY WITH SAME TYPE NO.  
466.125 MFD. BY LITTELFUSE INC. FOR IC2505 AND IC2506  
466.375 MFD. BY LITTELFUSE INC. FOR IC2504



⚠ 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



Notes    is STBY

VM RD1/2VM\*\*\*\*J-T  
 RN RN1/16SE\*\*\*\*D Ω  
 RS1/16S\*\*\*\*J Ω  
 CH CCSRCH F  
 CKSRYB μF  
 CEAT μF

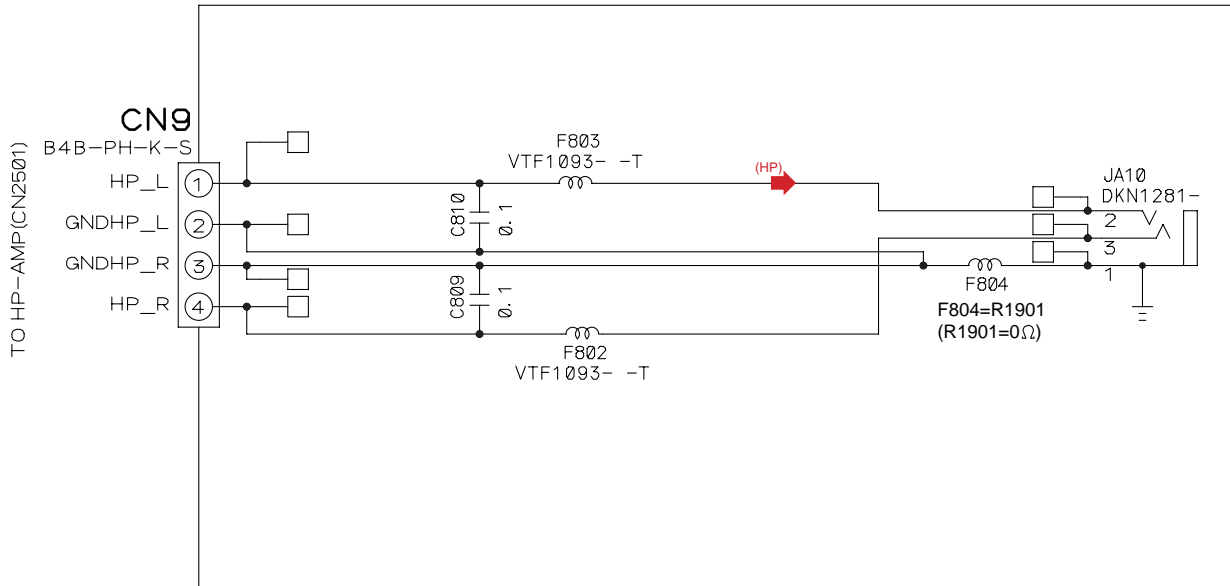
AUDIO SIGNAL ROUTE

(HP) : HP L CH SIGNAL  
 (HPD) : HP DIGITAL CH SIGNAL





# 3.26 HPJACK ASSYS


## P HPJACK ASSY (DWX2553)



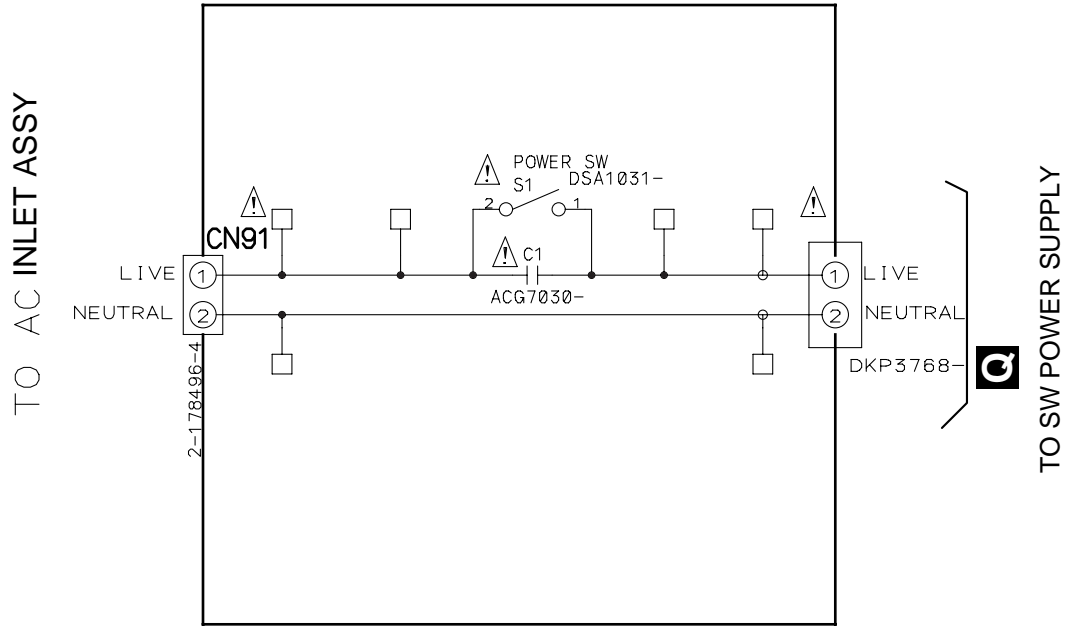
AUDIO SIGNAL ROUTE  
 (HP) → : HP L CH SIGNAL

Notes  is STBY

 RS1/16S\*\*\*J Ω

 CKSRYB μF

**R** ACSW (DWX2545)



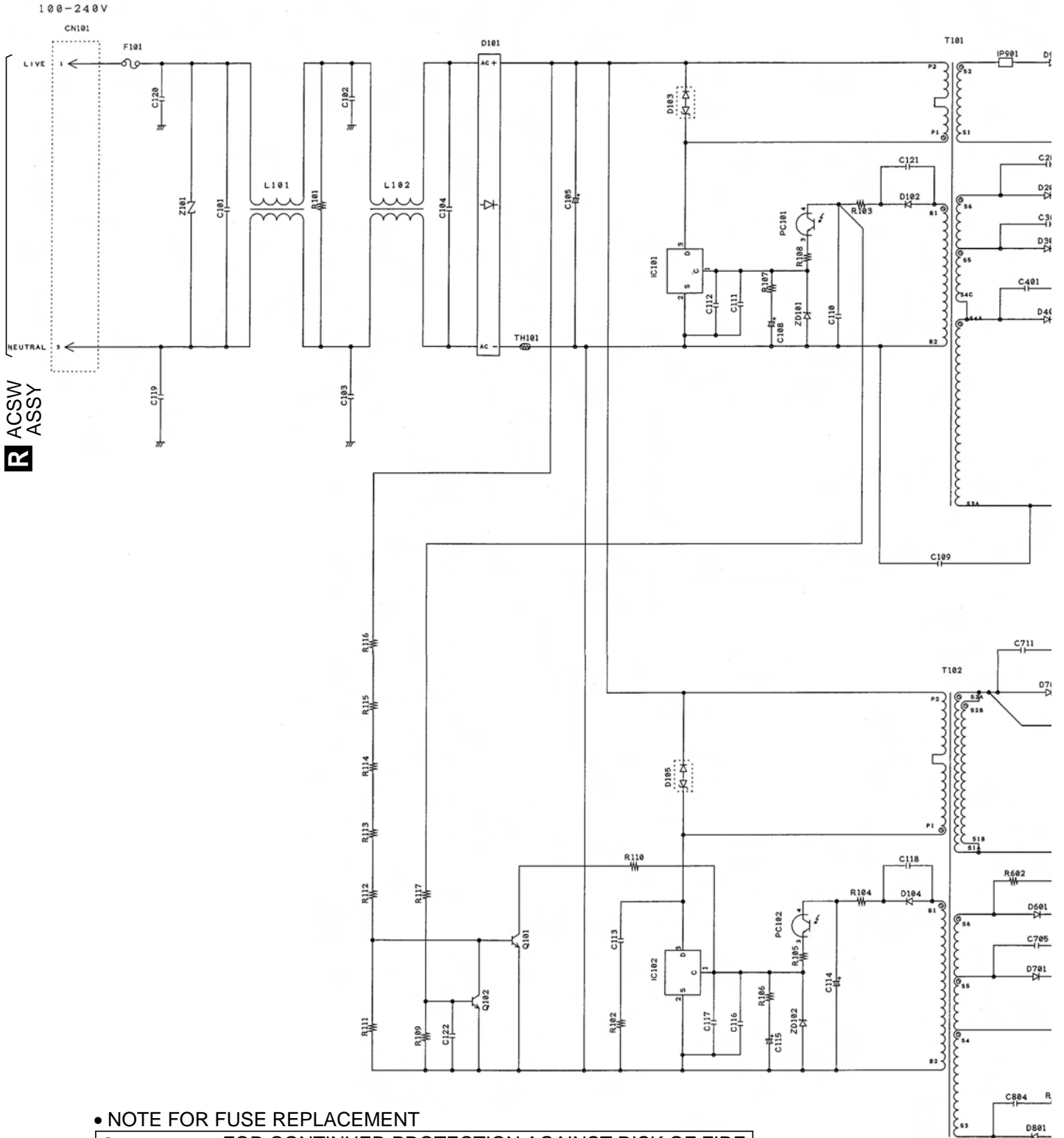
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation

# 3.28 SW POWER SUPPLY UNIT

## Q SW POWER SUPPLY UNIT (DWR1433)

### « NOTE OF SPARE PARTS IN POWER SUPPLY (SYPS) UNIT »

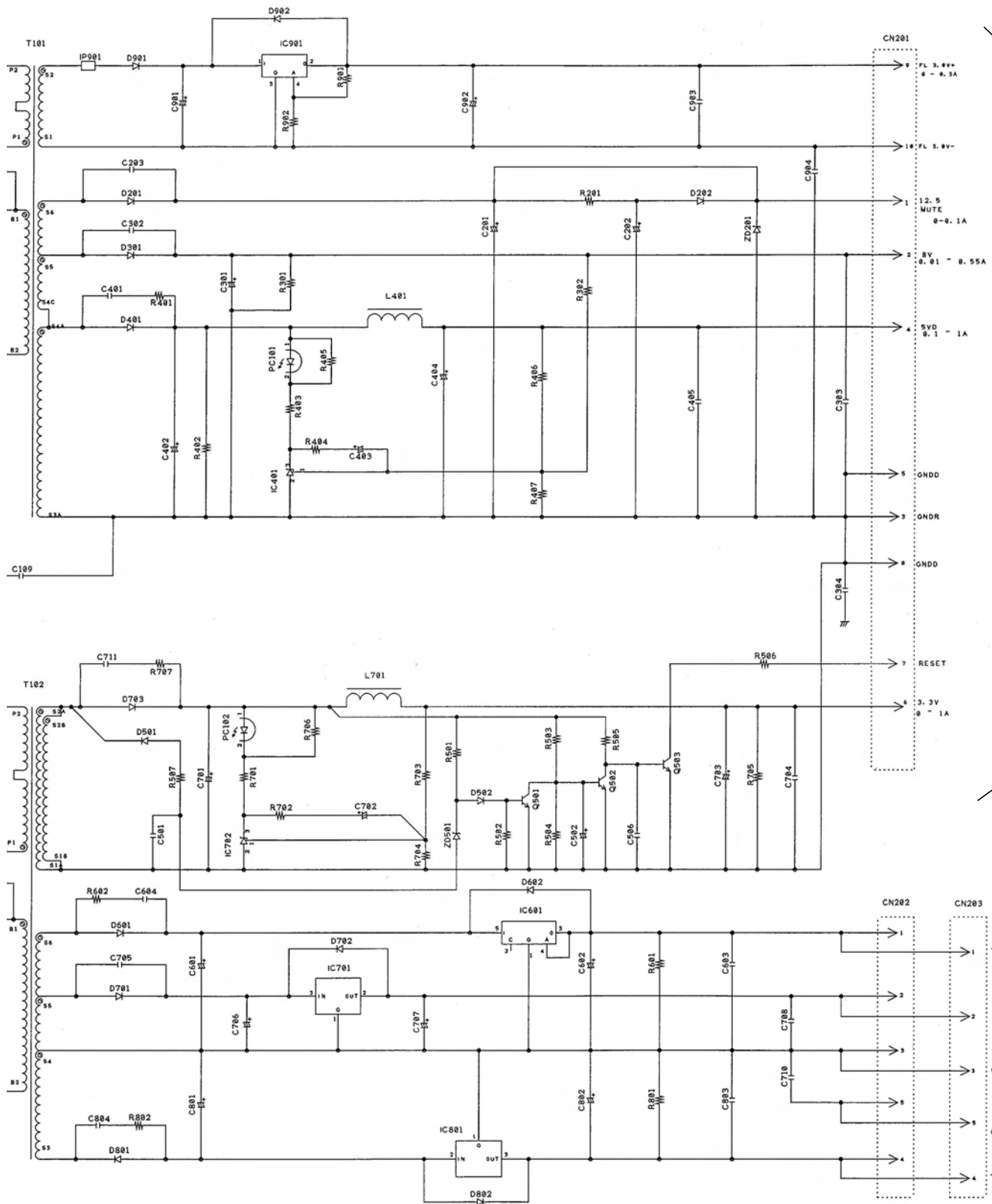
- In case of repairing, use the described parts only to prevent an accident.
- Please write the red ✓ mark on the board when the primary section of POWER SUPPLY (SYPS) Unit is repaired.
- Please take care to keep the space, not touching other parts when replacing the parts.



### • NOTE FOR FUSE REPLACEMENT

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





2/3 CN 8

J CN903  
Q CN 2502



# 3.29 VOLTAGES

## Measurement Condition

A	Input connectors	CD/LINE	Nothing
		PHONO	Nothing
		DIGITAL IN	Nothing
		RETURN	Nothing
		MIC1	Nothing
		MIC2	Nothing
B	Output connectors	MASTER1	Non connction
		MASTER2	Non connction
		REC	Non connction
		BOOTH	Non connction
		SEND	Non connction
		DIGITAL OUT	Non connction
		HP	Non connction
C	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	
D	HP	HP MONO/STEREO	STEREO
		MIXING	Center
		LEVEL	Max
E	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	
F	MASTER	LEVEL	Max
		BALANCE	Center
		CUE	OFF
		MONO/STEREO	STEREO
BOOTH MONITOR		Max	
CH FADER CURVE		Center	
CRS FADER CURVE		Center	
G	EFFECT	AUTO/TAP	AUTO
		MIDI START/STOP	START
		CUE	OFF
		EFFECT	DERAY
		CHANNEL	1
		TIME	-
		LEVEL/DEPTH	Max
		ON/OFF	OFF(Lighting)
H	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

### 1/3 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 (D610A003BPYPA225-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

**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

**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

**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

**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

**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

A

B

C

D

E

F

# 3.30 WAVEFORMS

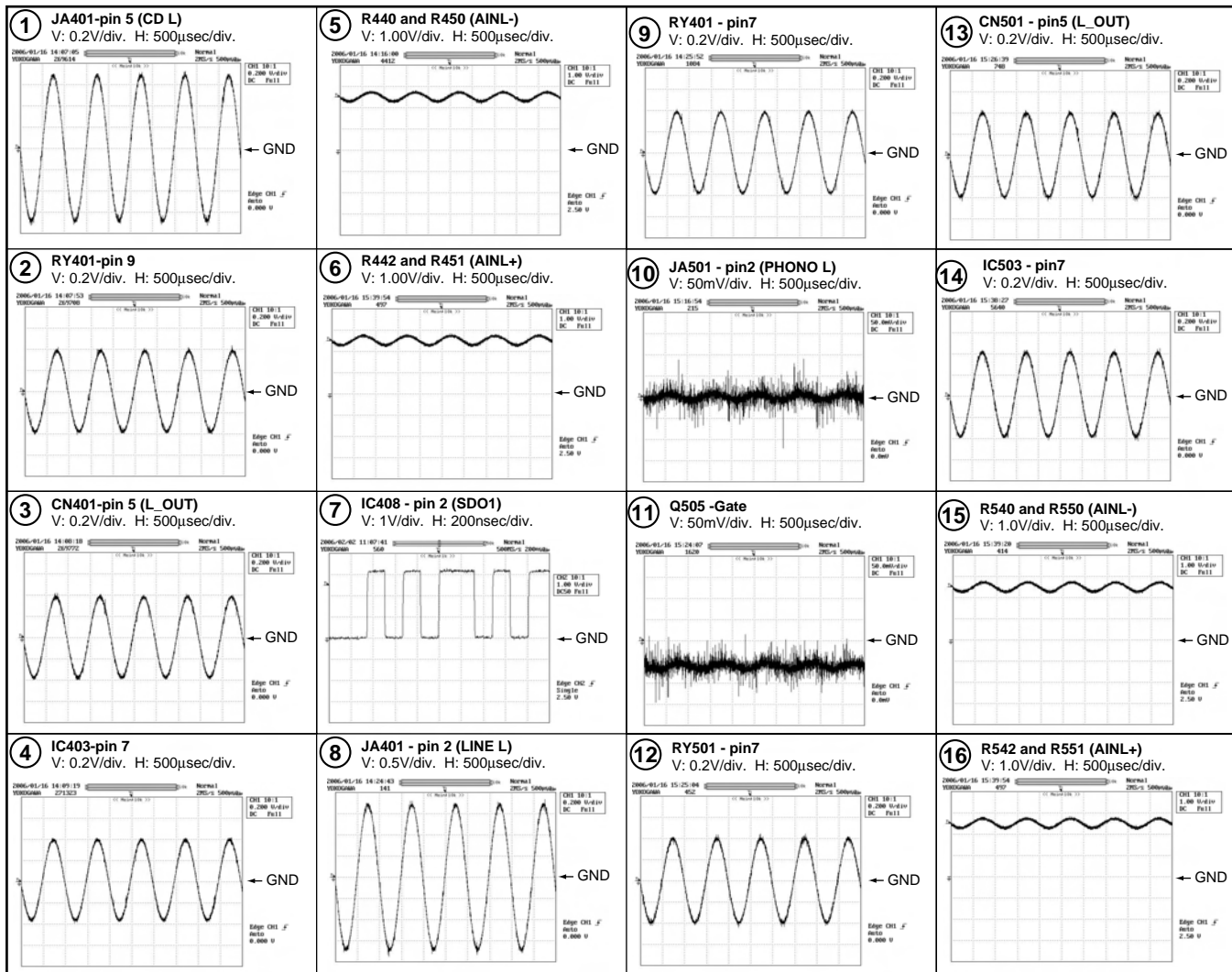
## Measuring Conditions (Analog)

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.

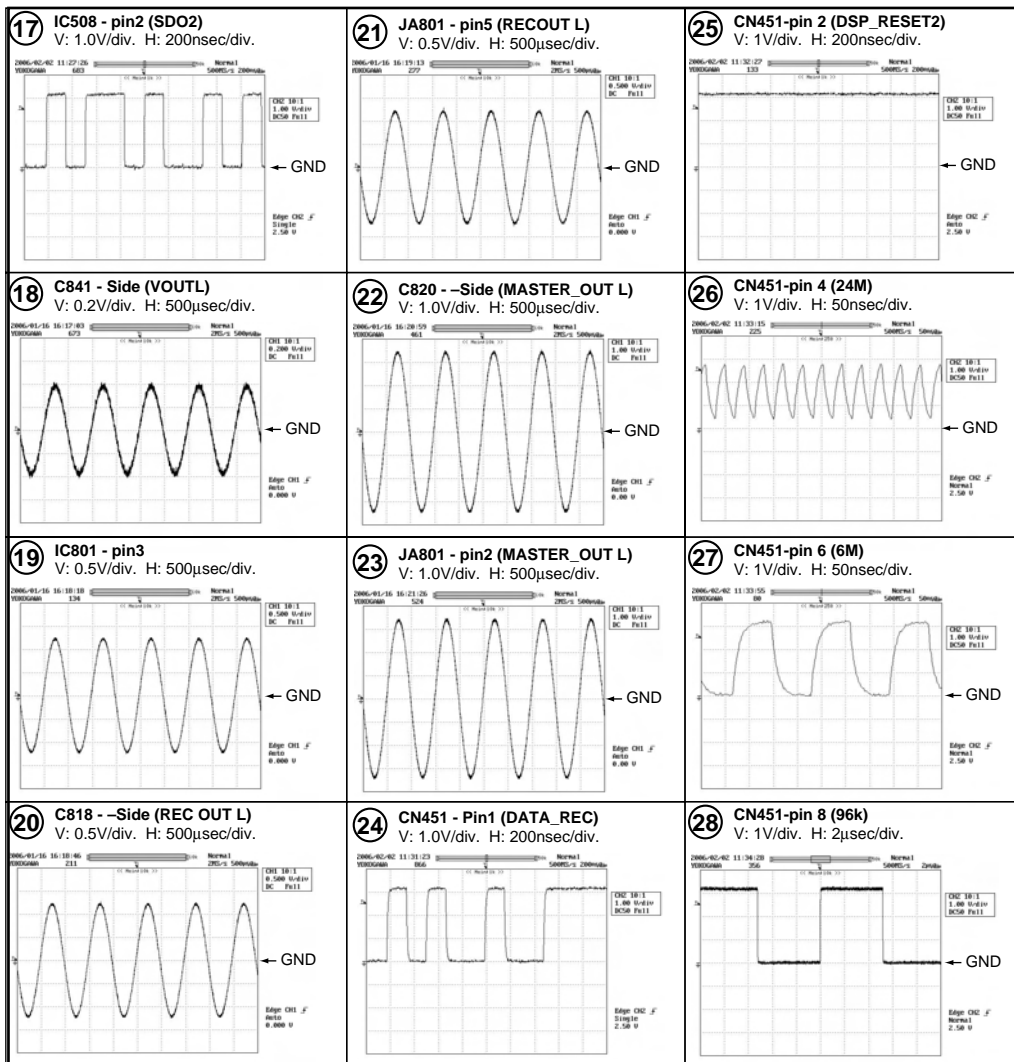
## A INPUT ASSY

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



A  
B  
C  
D  
E  
F

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

A

# L DSP ASSY

# B MIC 1 ASSY

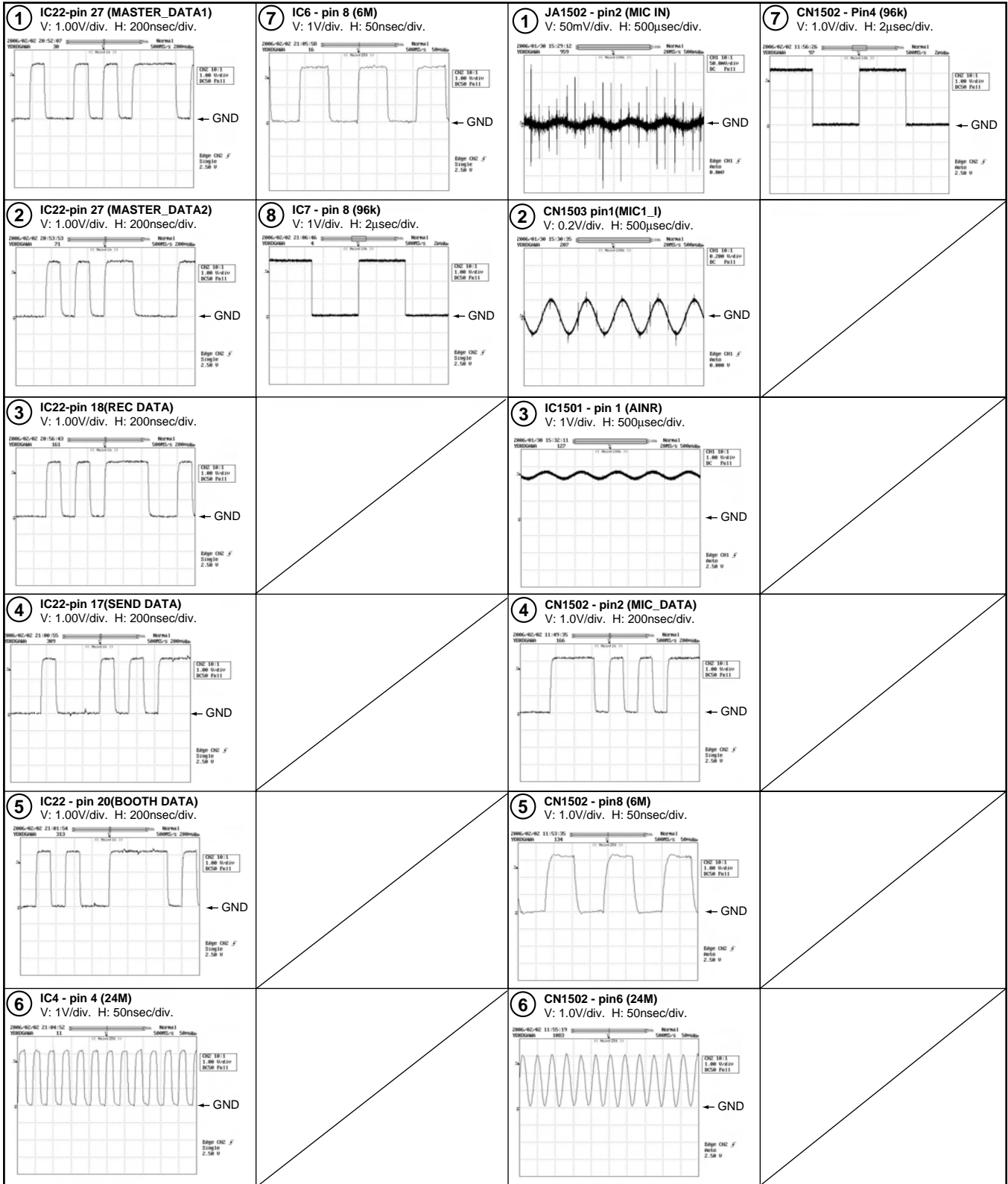
B

C

D

E

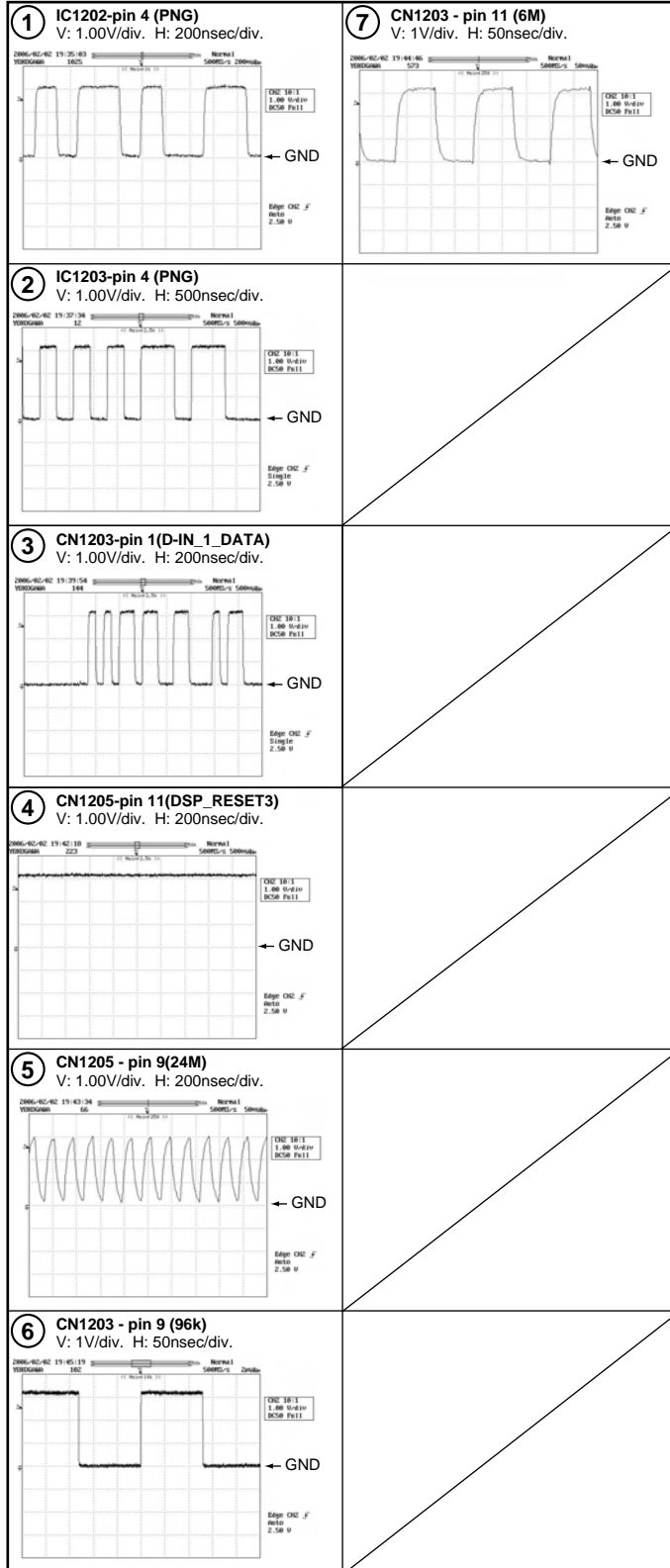
F





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

# N DIGIC ASSY

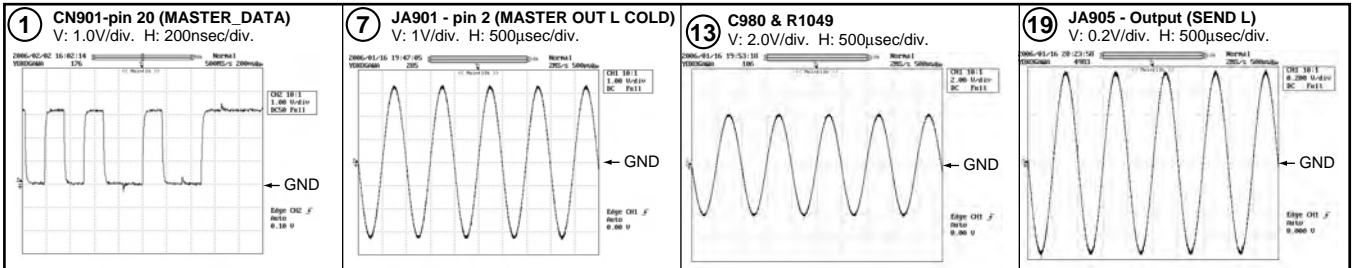


A  
B  
C  
D  
E  
F

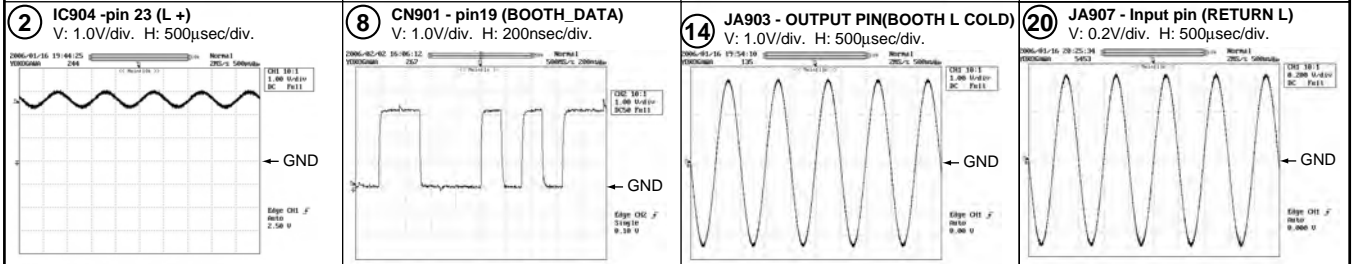
# M OUTPUT ASSY

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

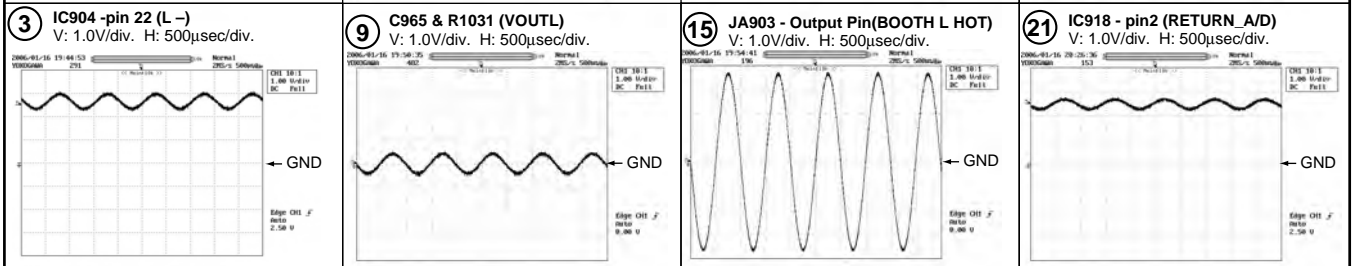
A



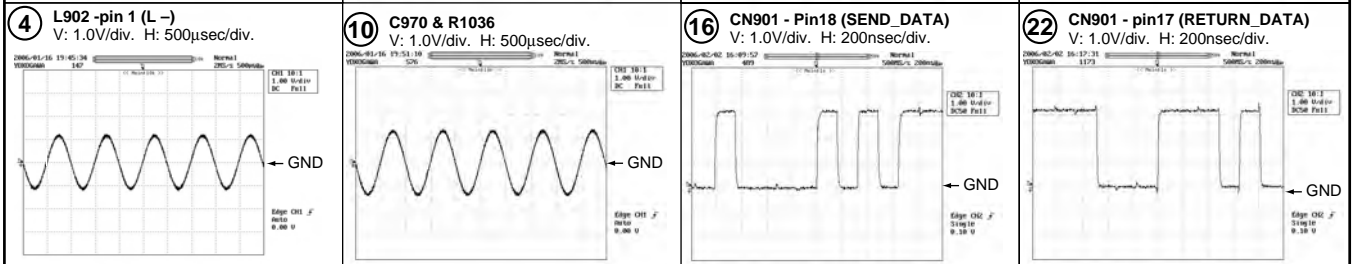
B



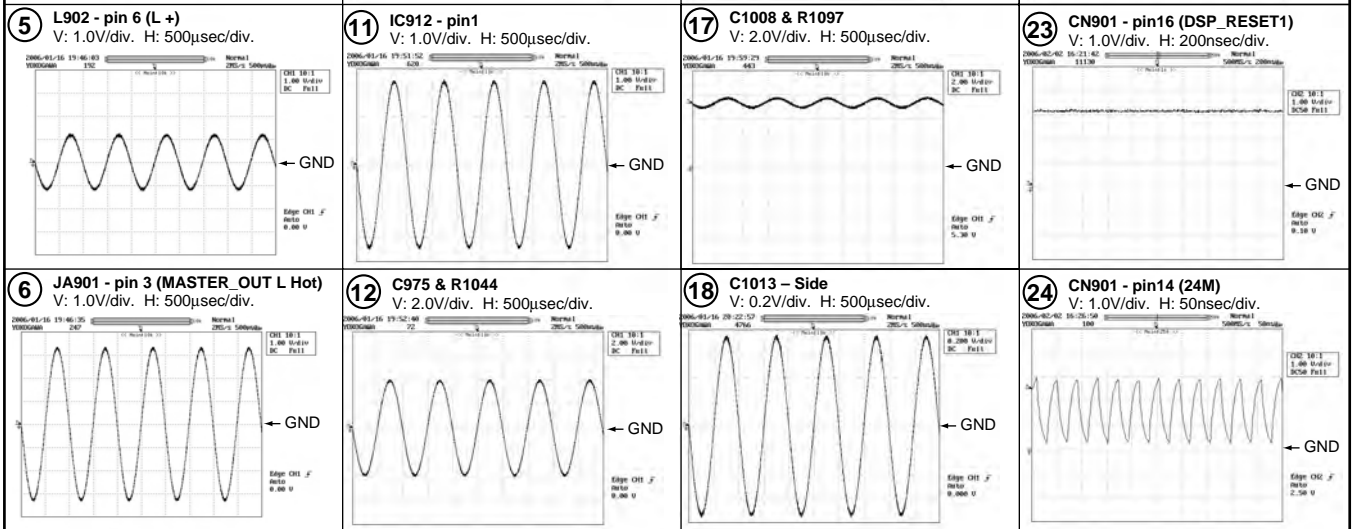
C



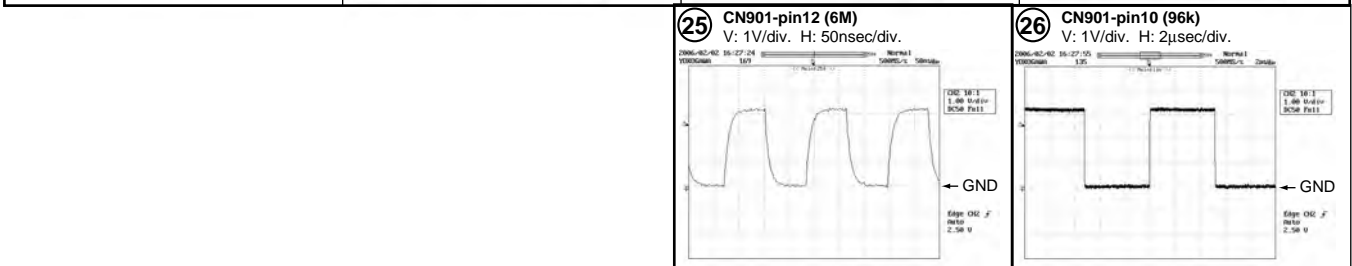
D



E



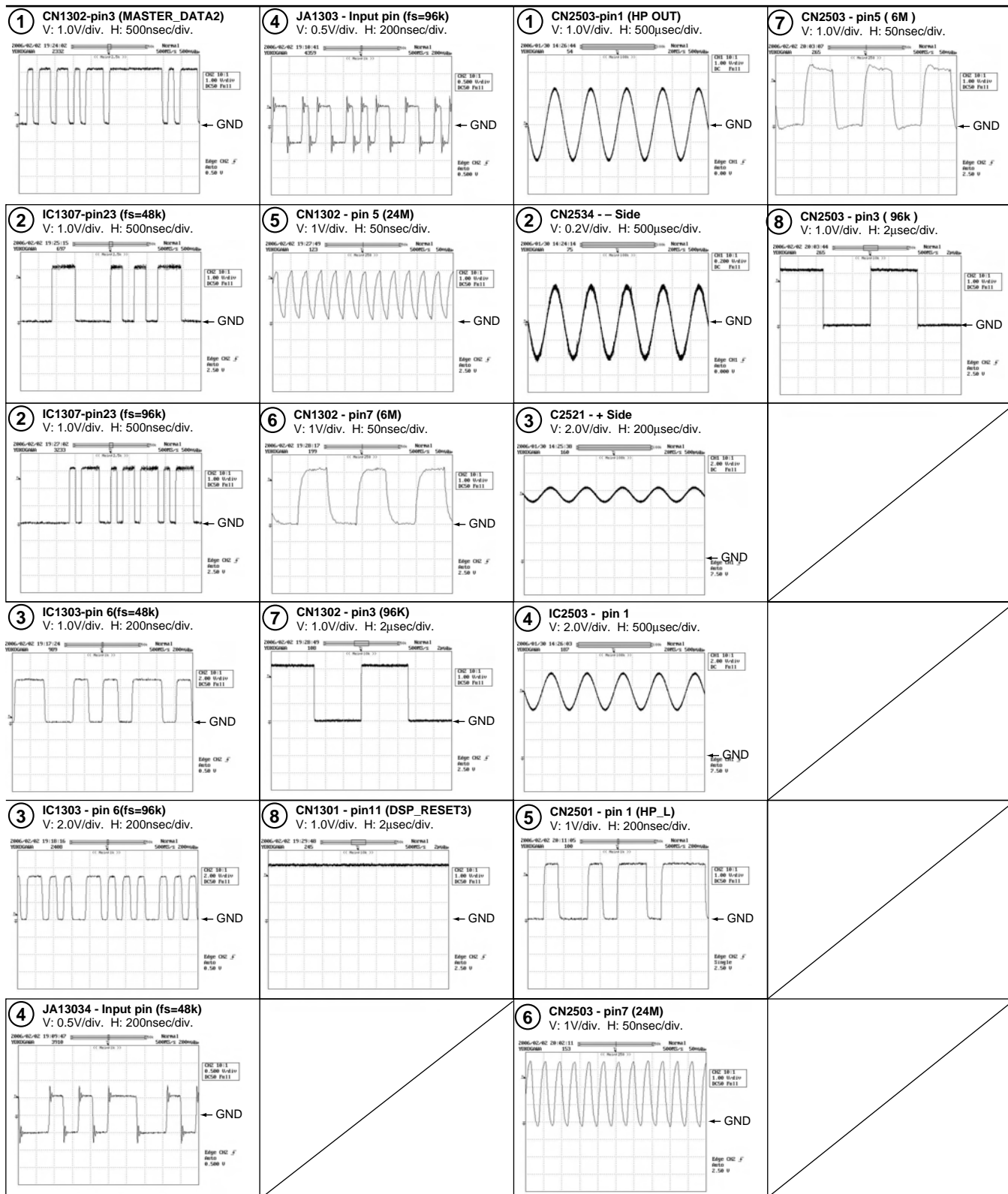
F



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



A  
B  
C  
D  
E  
F

# 4. PCB CONNECTION DIAGRAM

## 4.1 INPUT ASSY

**A** SIDE A

**A** INPUT ASSY

**J** CN902 ← **CN454** **I** CN2

**NOTE FOR PCB DIAGRAMS :**

1. Part numbers in PCB diagrams match those in the schematic diagrams.

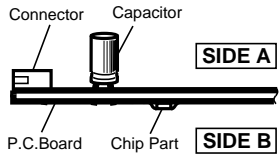
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

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

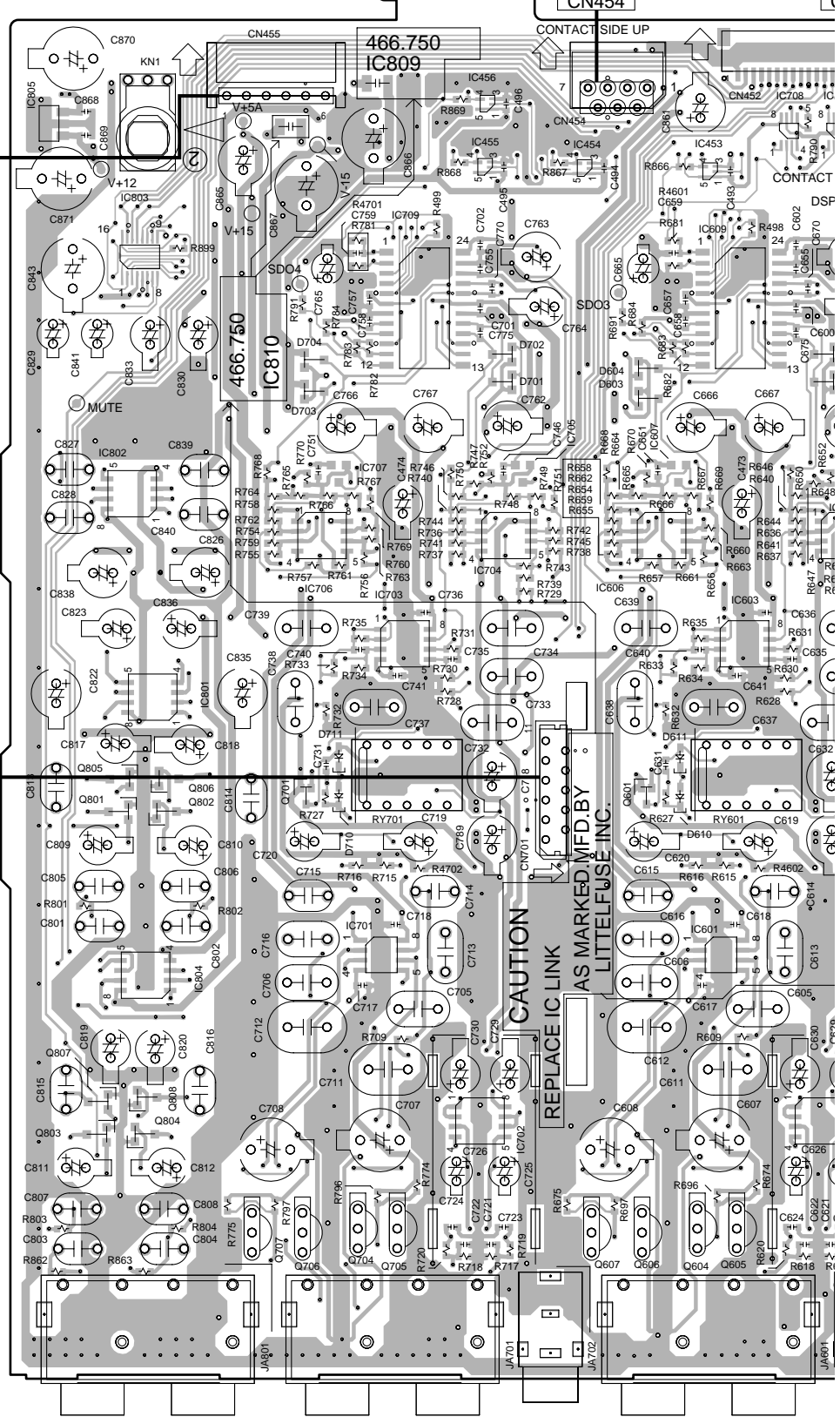
3. The parts mounted on this PCB include all necessary parts for several destinations.

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**



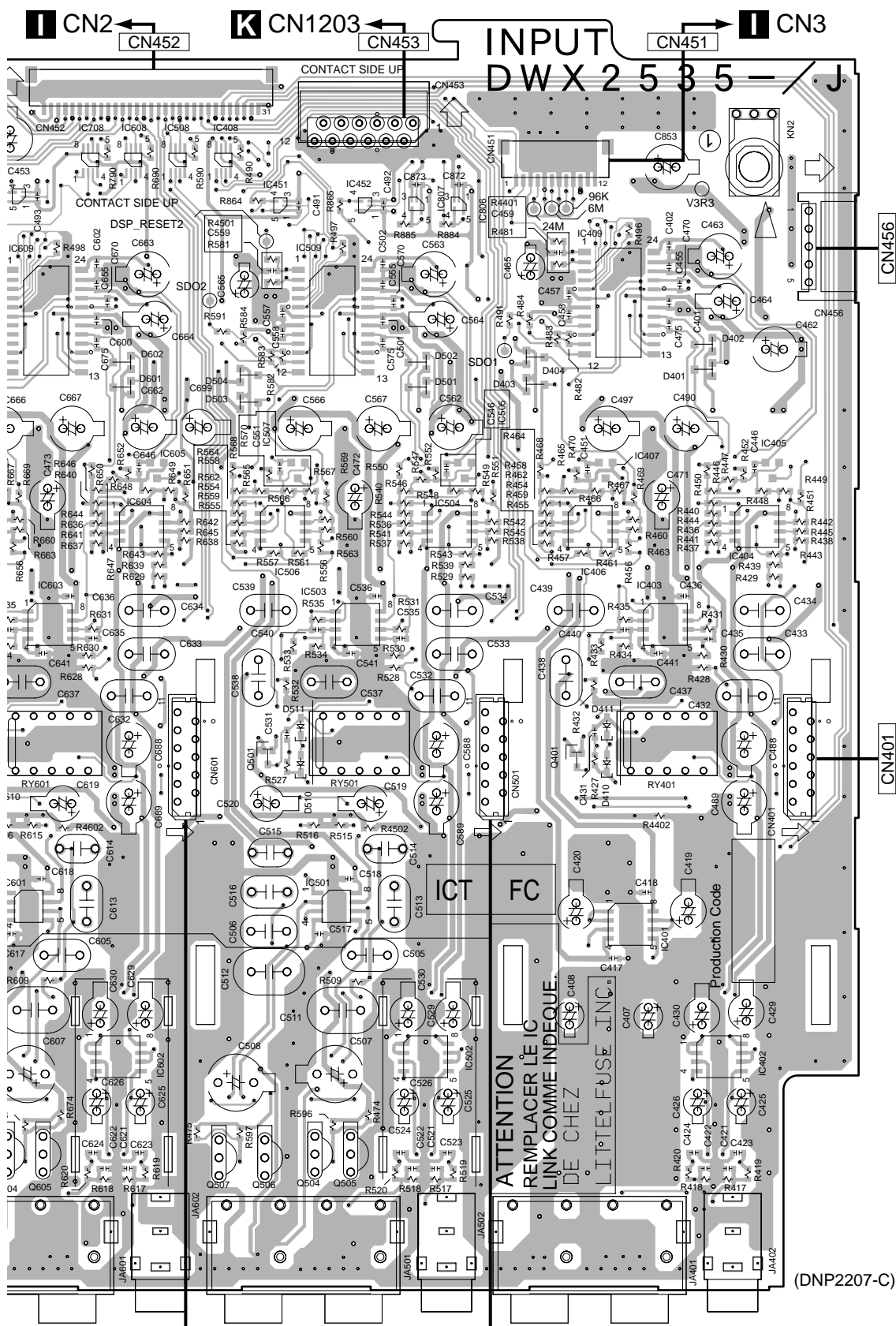
**CAUTION**  
REPLACE IC LINK  
AS MARKED MFD. BY  
LITTELFUSE INC.

**D** 2/4 CN691

IC805	IC803	IC804	IC810	IC707	IC703	IC456	IC454	IC453	IC603	IC608
IC802	IC801	IC706	IC709	IC455	IC702	IC606	IC607	IC609	IC708	IC605
Q803	Q805	Q804	Q806	Q701	Q704	Q607	Q601	Q604	Q605	Q606
Q807	Q801	Q808	Q802	Q706	Q705					

DJM-800

**SIDE A**



**ATTENTION**  
**REPLACER LE IC**  
**LINK COMME INDEQUE.**  
**DE CHEZ**  
**LITEL FUSE INC.**

ICT FC  
 Production Code

**D 2/4** CN691 ← CN601

← CN501 **D 3/4** CN591

53 IC603	IC508	IC509	IC507/IC503	IC506	IC452	IC807	IC806	IC409	IC407	IC405						
31 IC609	IC708	IC604	IC608	IC602	IC408	IC451	IC501	IC452	IC504	IC502	IC505	IC406	IC403	IC401	IC404	IC402
4 Q605		Q507	Q501	Q506	Q504	Q505			Q401							

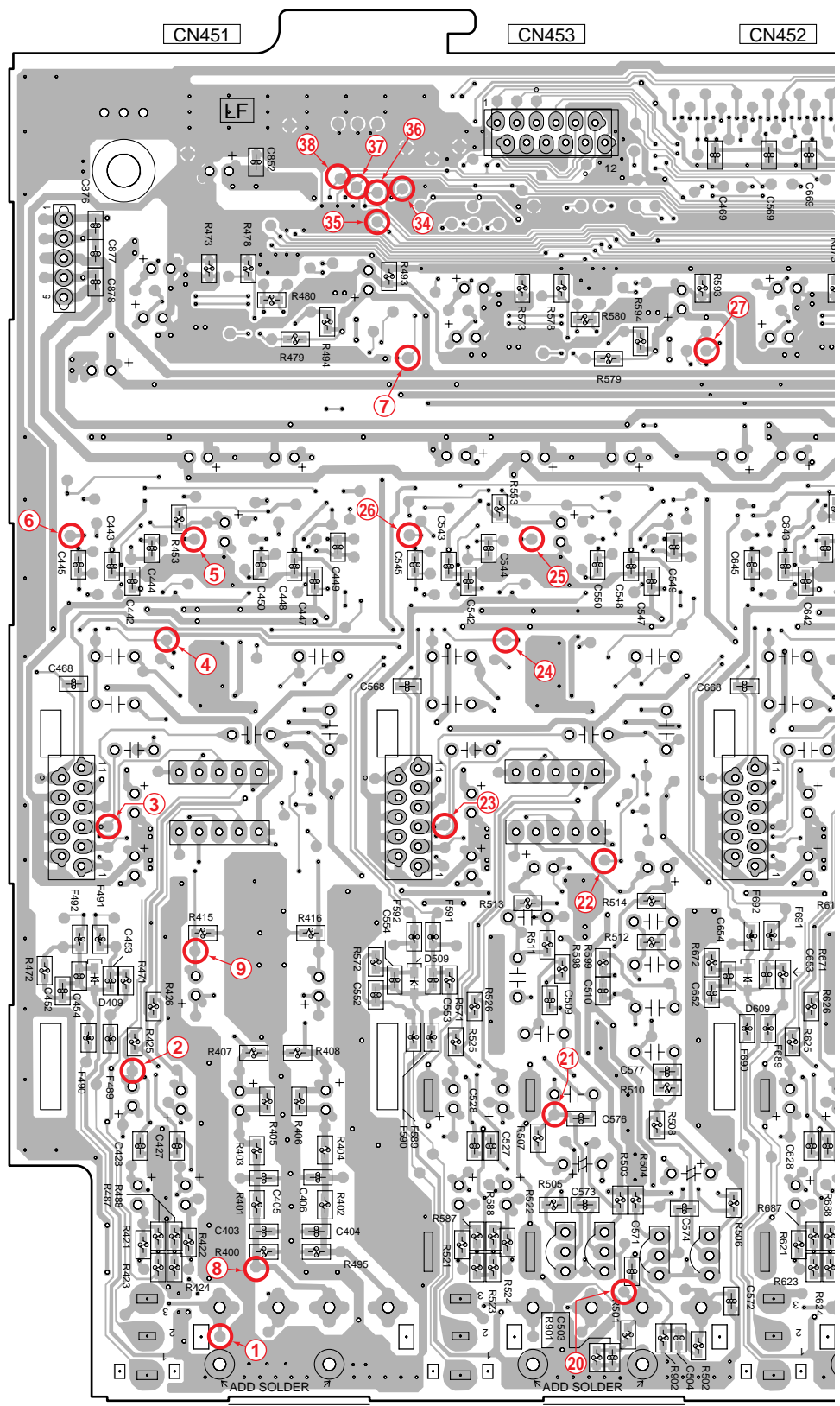
DJM-800

**A**

SIDE B

# A INPUT ASSY

A  
B  
C  
D  
E  
F

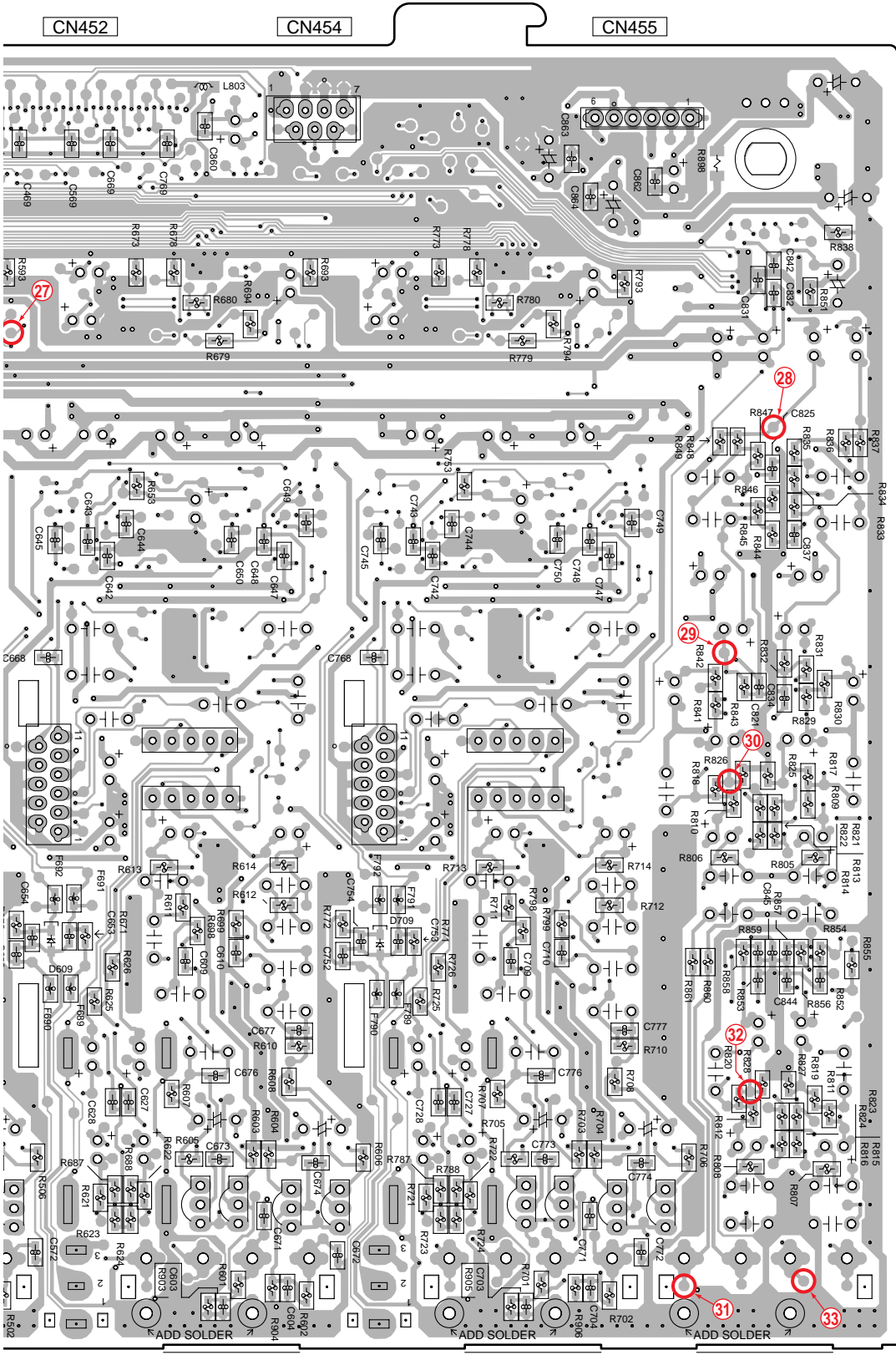


Q1504 Q1502  
Q1503  
Q1501

# A

SIDE B

A  
B  
C  
D  
E  
F



CN601

(DNP2207-C)

NOTE : The encircled numbers denote measuring point.

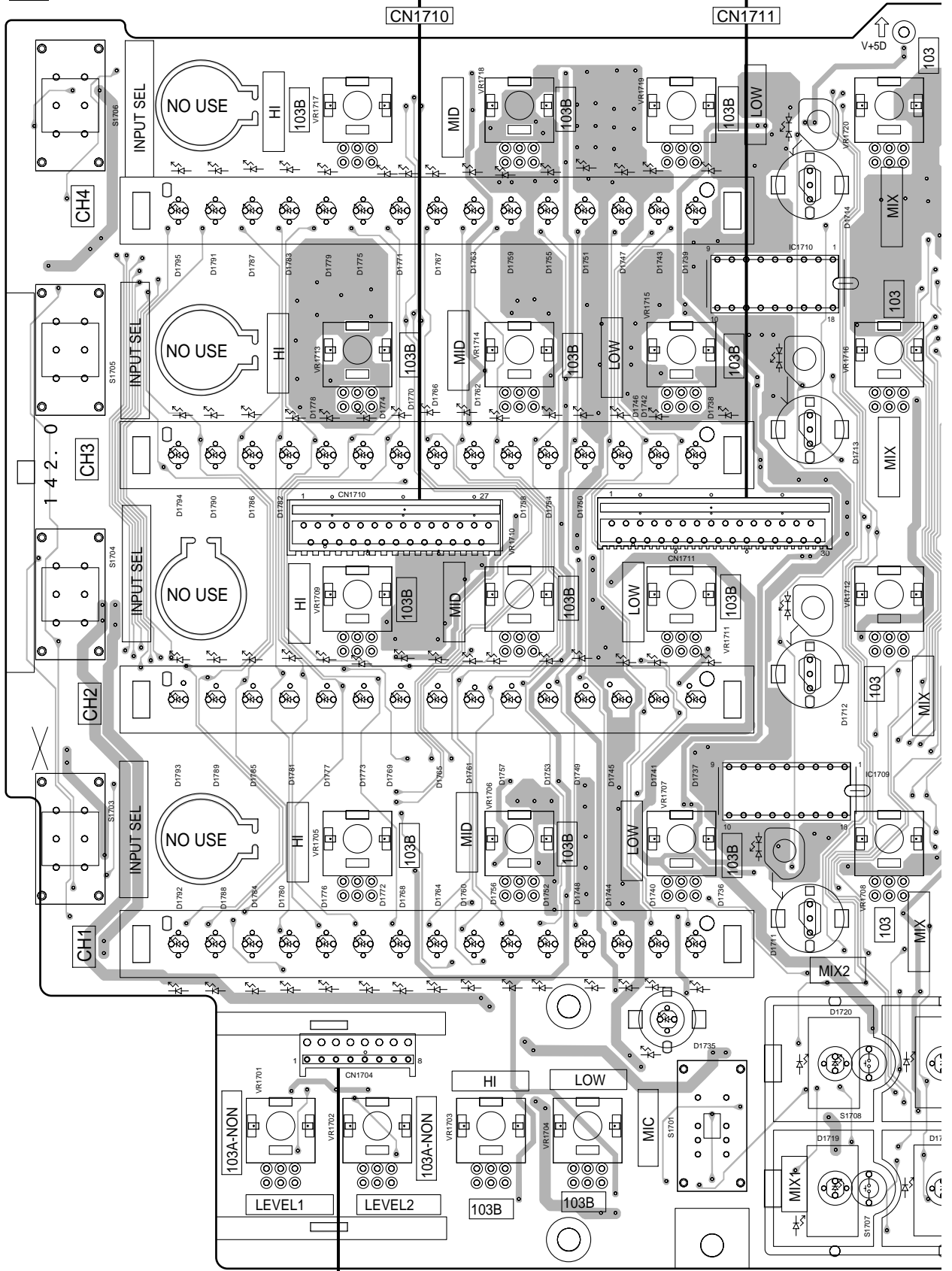
4.2 PANEL 1 ASSY

SIDE A

PANEL1 ASSY

CN2101

CN2102



CN1704

CN1503

DJM-800

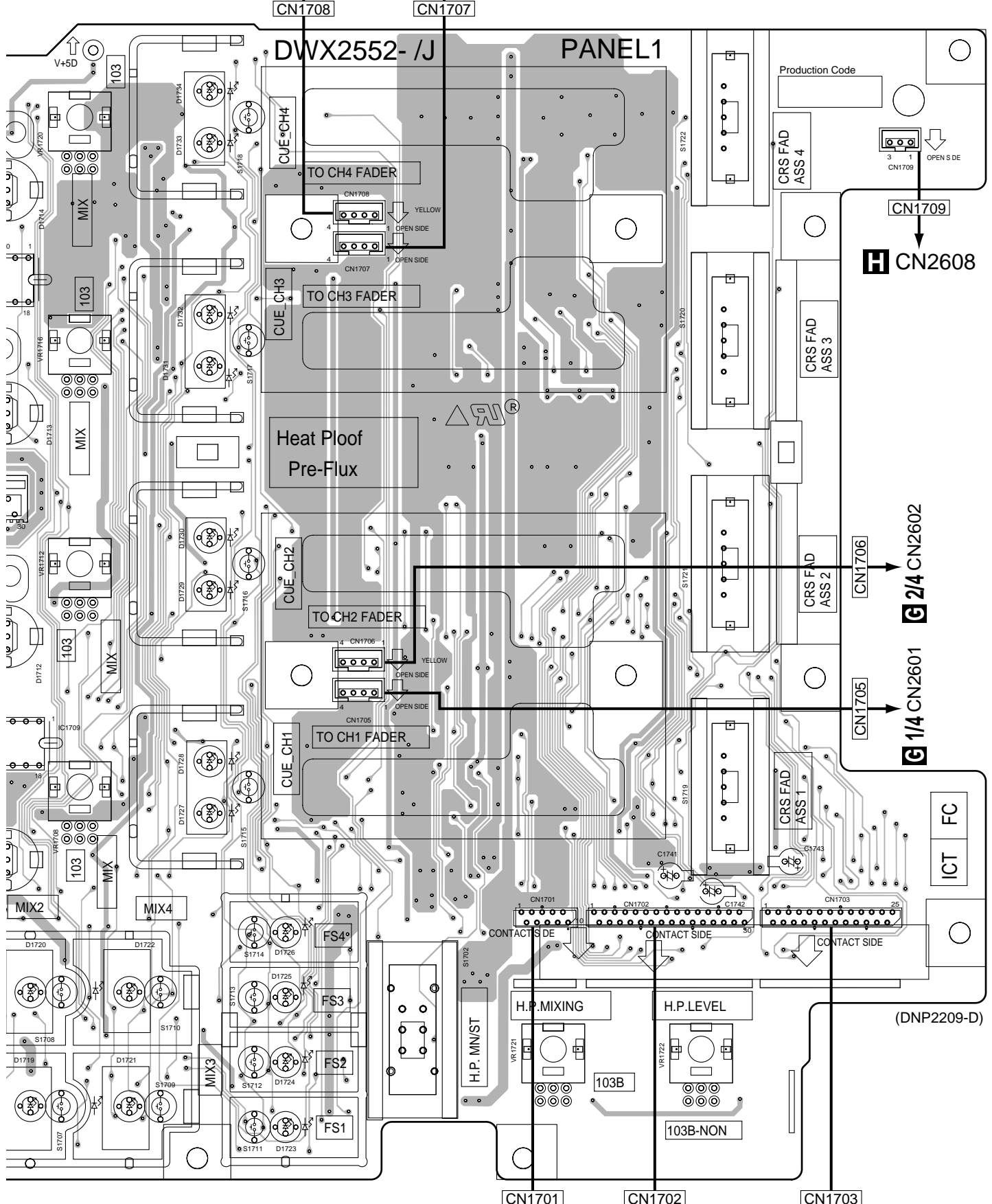
C



**G** 4/4 CN2604

**G** 3/4 CN2603

**SIDE A**



A  
B  
C  
D  
E  
F

**I** CN4

**I** CN5

**I** CN6

**C**

DJM-800

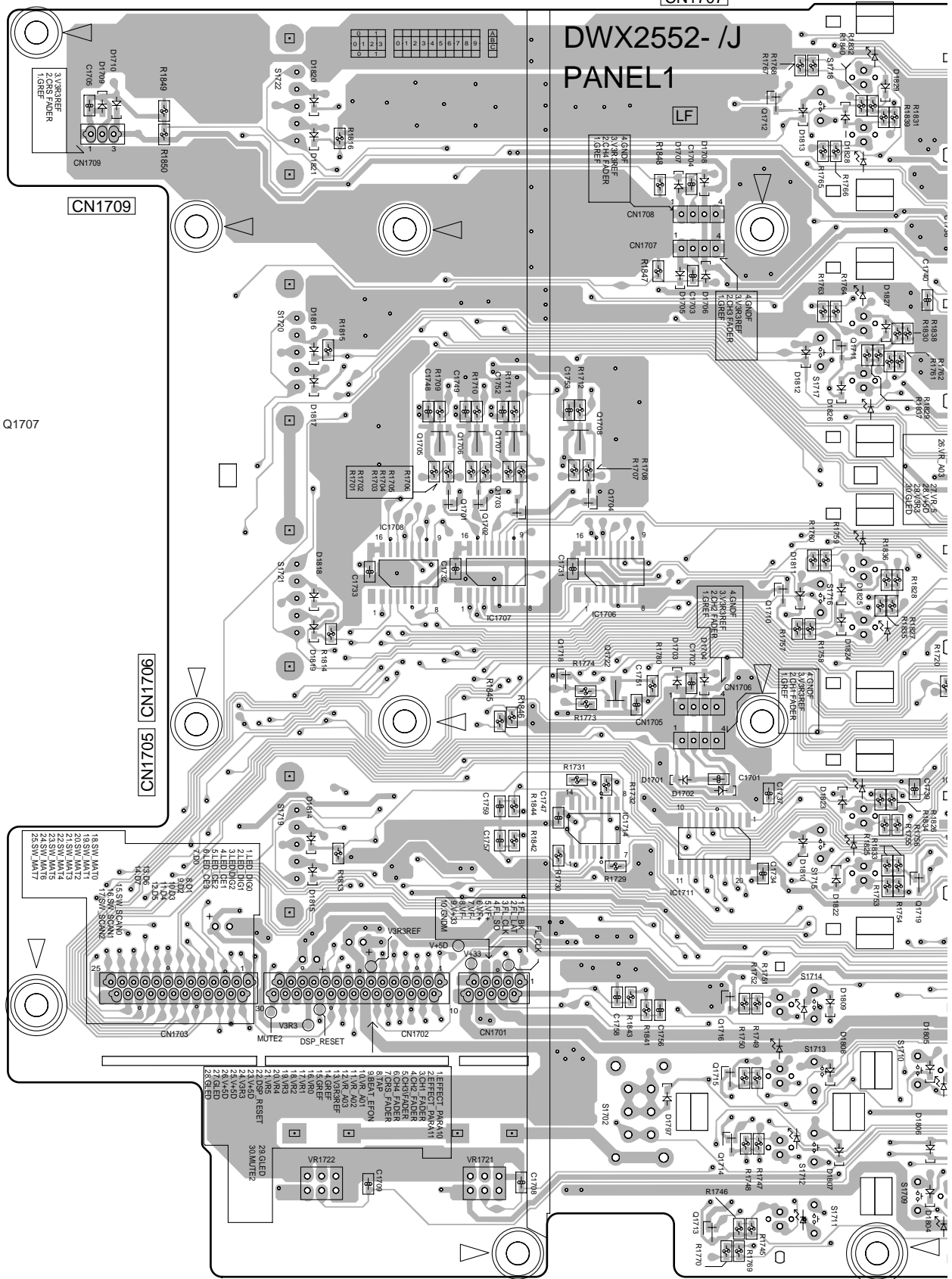
**SIDE B**

**C PANEL1 ASSY**

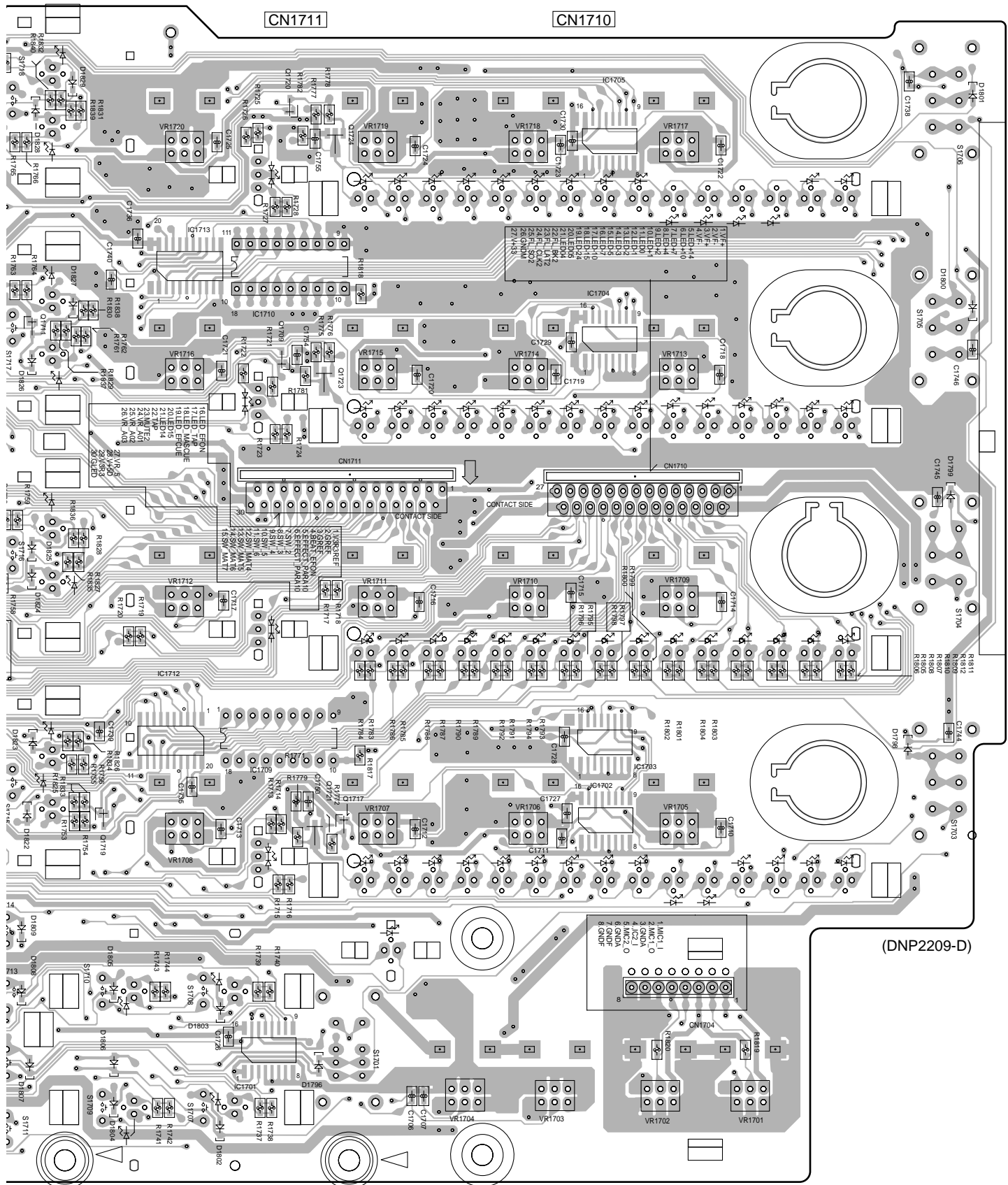
**DWX2552- /J  
PANEL1**

A  
B  
C  
D  
E  
F

Q1720  
Q1712  
Q1724  
Q1711  
Q1709  
Q1723  
Q1708  
Q1705 Q1706 Q1707  
Q1703 Q1704  
Q1701  
Q1702  
Q1710  
Q1718  
Q1722  
Q1721  
Q1717  
Q1719  
Q1716  
Q1715  
Q1714  
Q1713



SIDE B



### 4.3 TRIM 1 to TRIM 4 and ACSW ASSYS

1

2

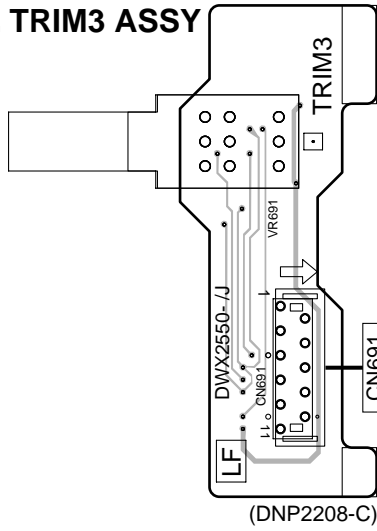
3

4

**A** **SIDE A**

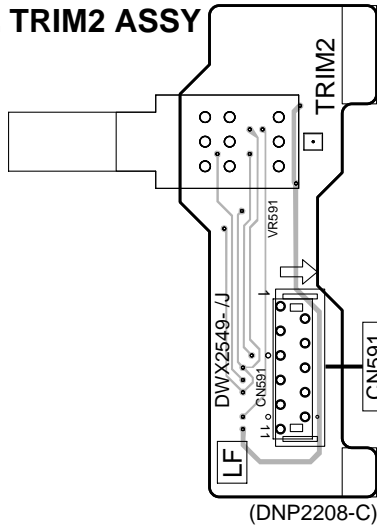
**SIDE A**

**D** 2/4 TRIM3 ASSY



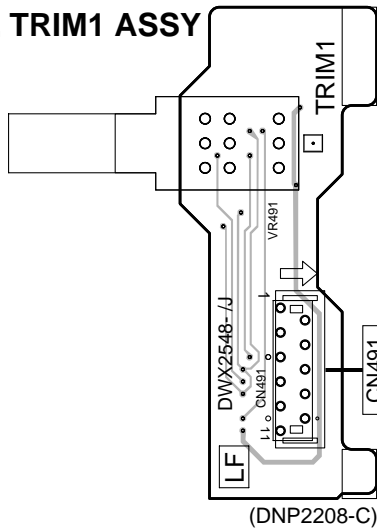
**A** CN601

**D** 3/4 TRIM2 ASSY



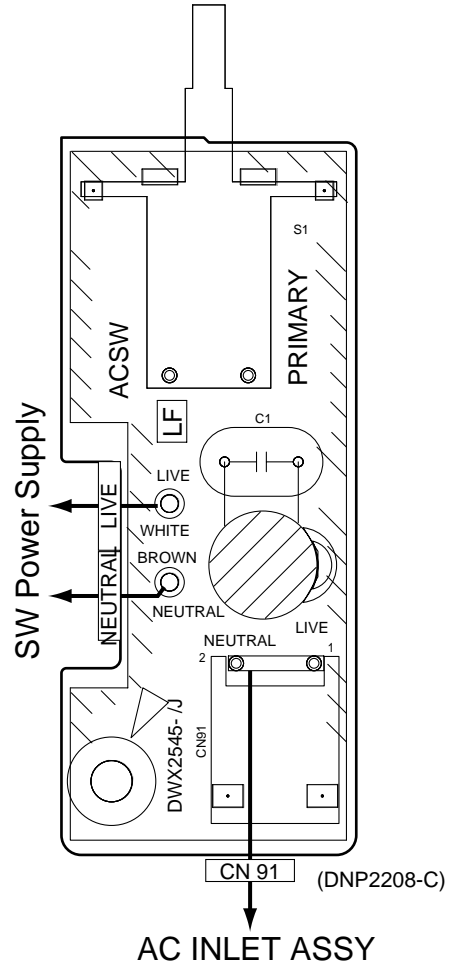
**A** CN501

**D** 4/4 TRIM1 ASSY

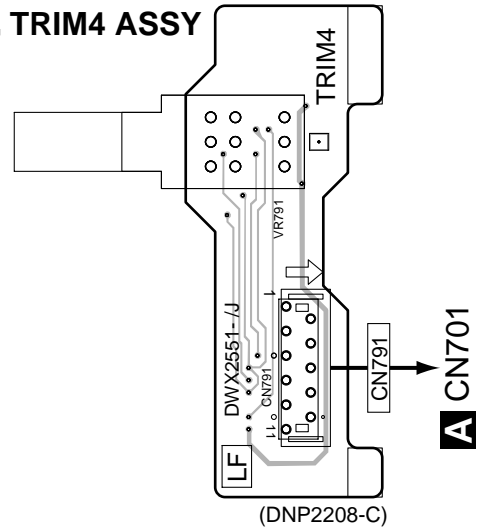


**A** CN401

**R** ACSW ASSY



**D** 1/4 TRIM4 ASSY



**A** CN701

**D** 1/4-4/4 **R**

**D** 1/4-4/4 **R**

1

2

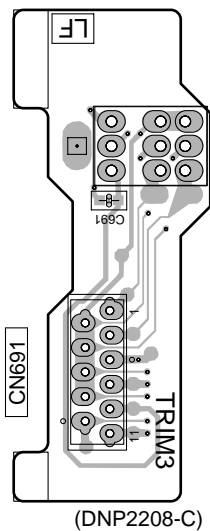
3

4

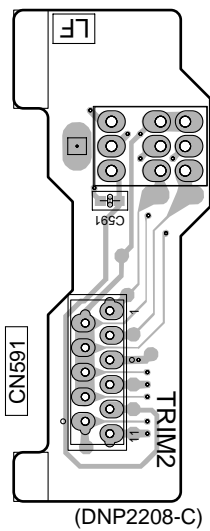
**SIDE B**

**SIDE B**

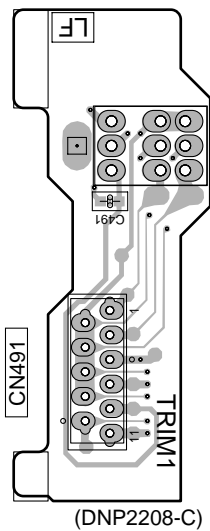
**D 2/4 TRIM3 ASSY**



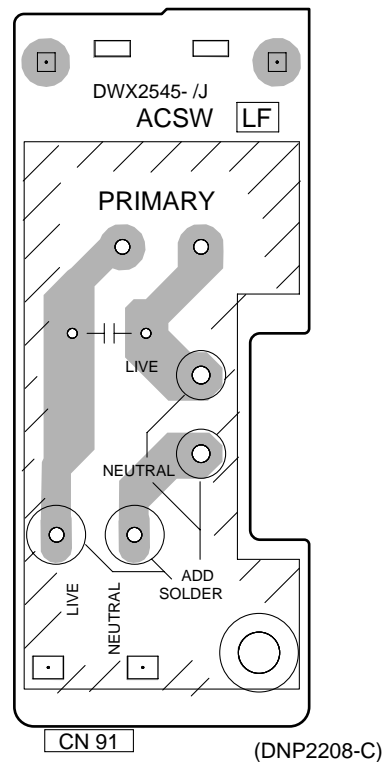
**D 3/4 TRIM2 ASSY**



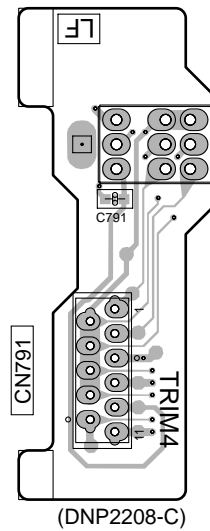
**D 4/4 TRIM1 ASSY**



**R ACSW ASSY**



**D 1/4 TRIM4 ASSY**



**D 1/4-4/4 R**

**D 1/4-4/4 R**

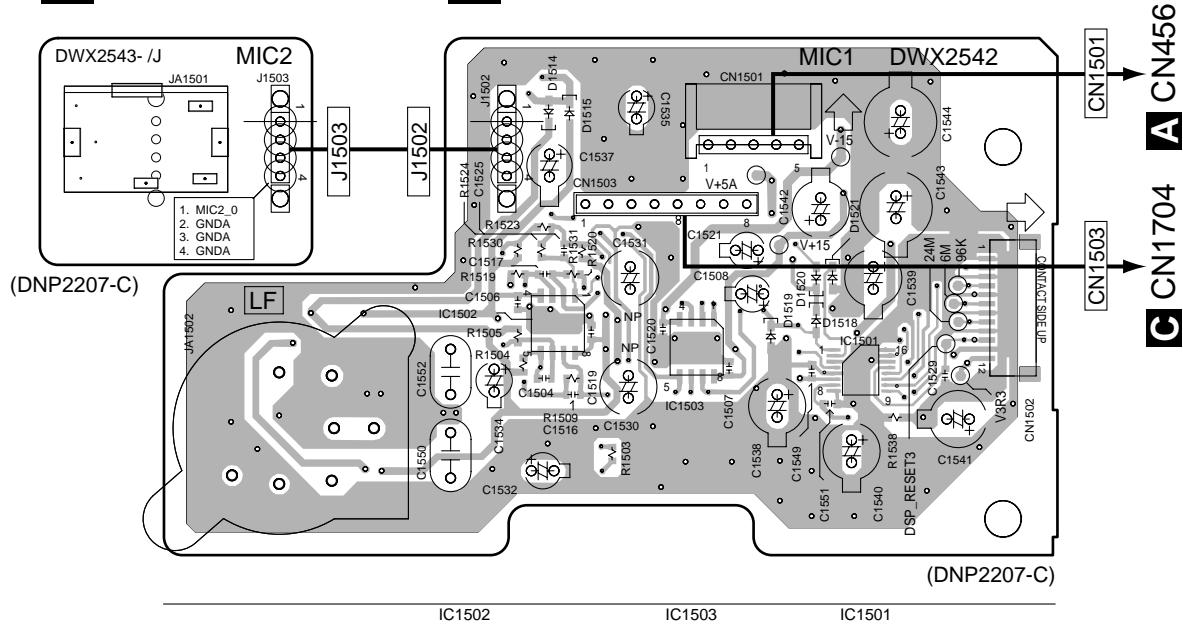
# 4.4 MIC1 and MIC2 ASSYS

**A** **SIDE A**

**SIDE A**

**E** MIC2 ASSY

**B** MIC1 ASSY



**B**

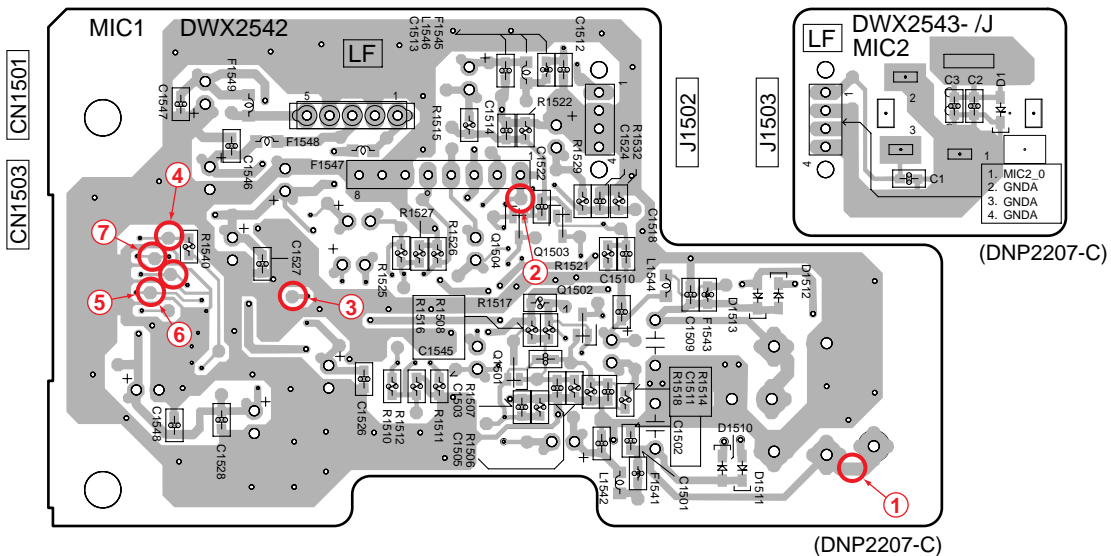
**C**

**SIDE B**

**SIDE B**

**B** MIC1 ASSY

**E** MIC2 ASSY



**D**

**E**

**F**

**NOTE** : The encircled numbers denote measuring point.

**B E**

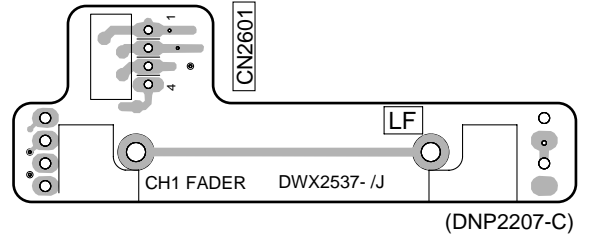
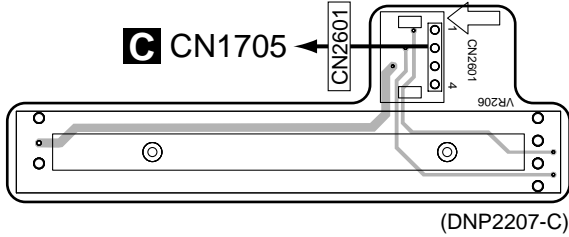
**B E**

# 4.5 CHFD1, CHFD2, CHFD3 and CHFD4 ASSYS

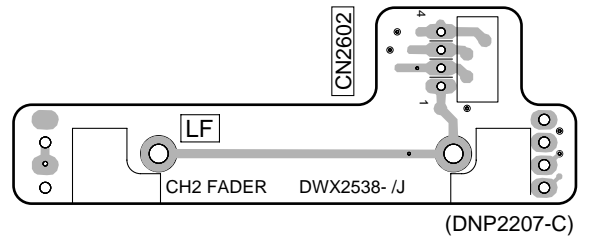
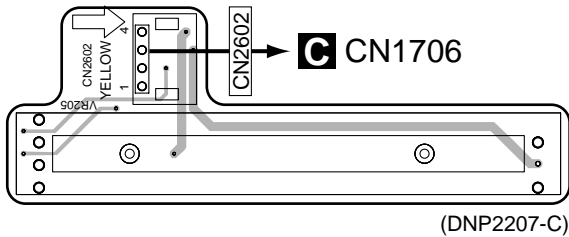
**SIDE A**

**SIDE B**

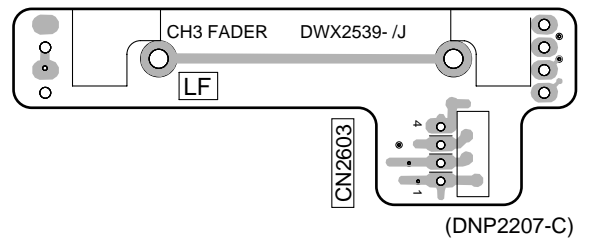
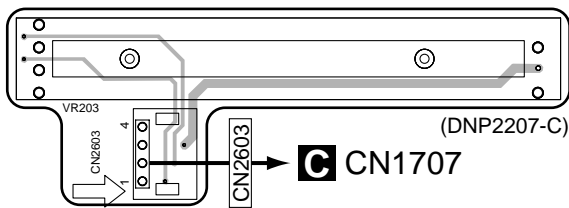
## G 1/4 CHFD1 ASSY



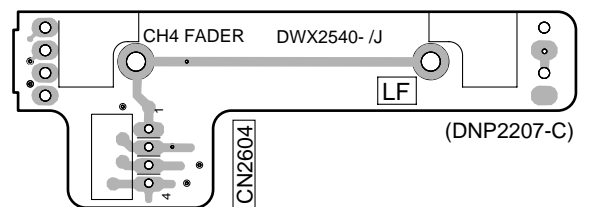
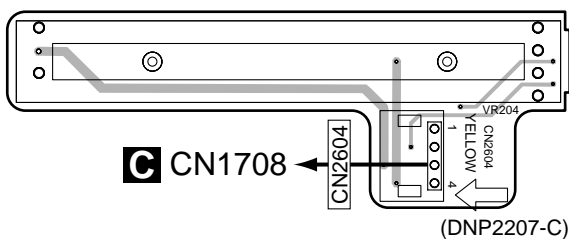
## G 2/4 CHFD2 ASSY



## G 3/4 CHFD3 ASSY



## G 4/4 CHFD4 ASSY



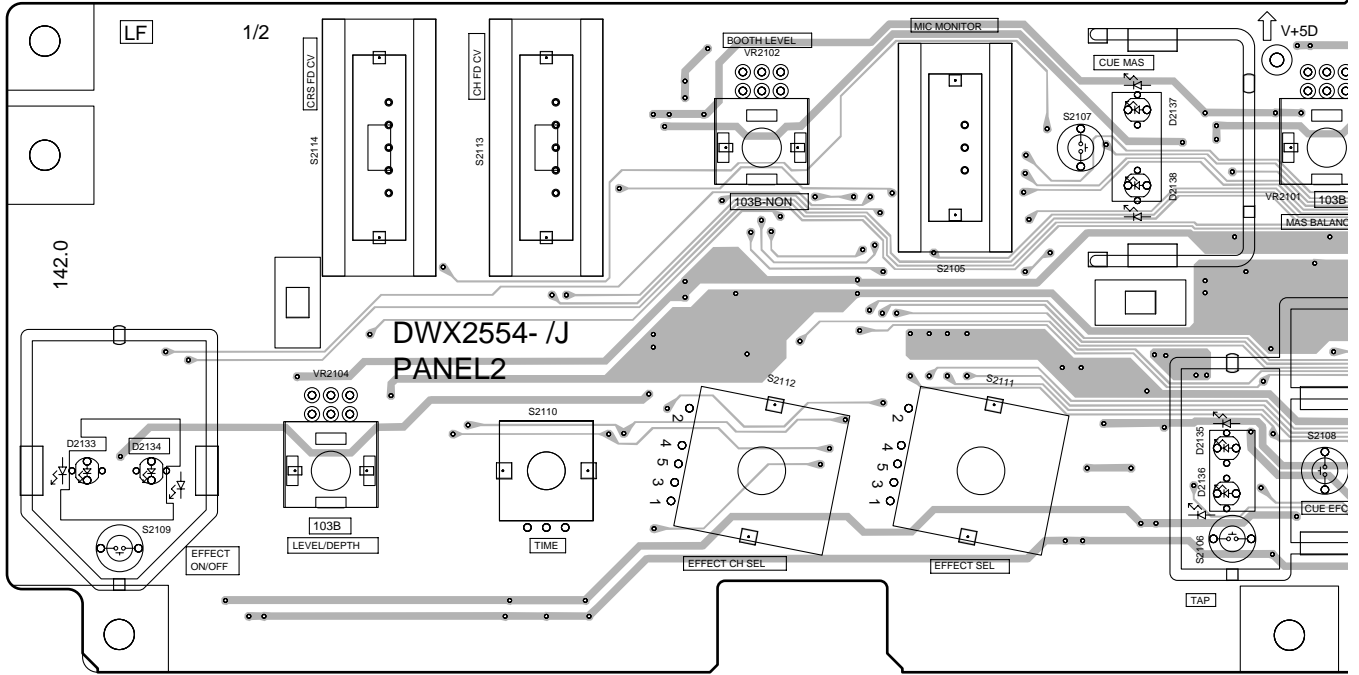
**G 1/4-4/4**

**G 1/4-4/4**

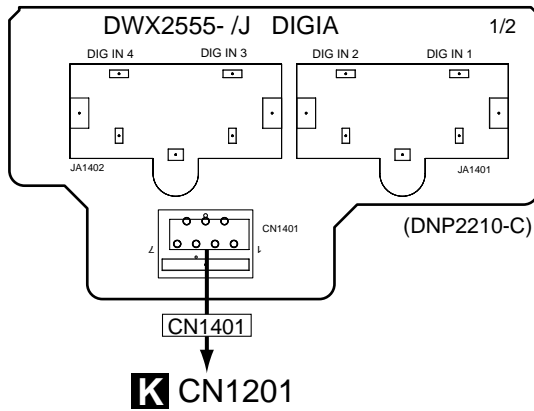
# 4.6 PANEL 2 and DIGIA ASSYS

**SIDE A**

## **F** PANEL2 ASSY



## **L** DIGIA ASSY

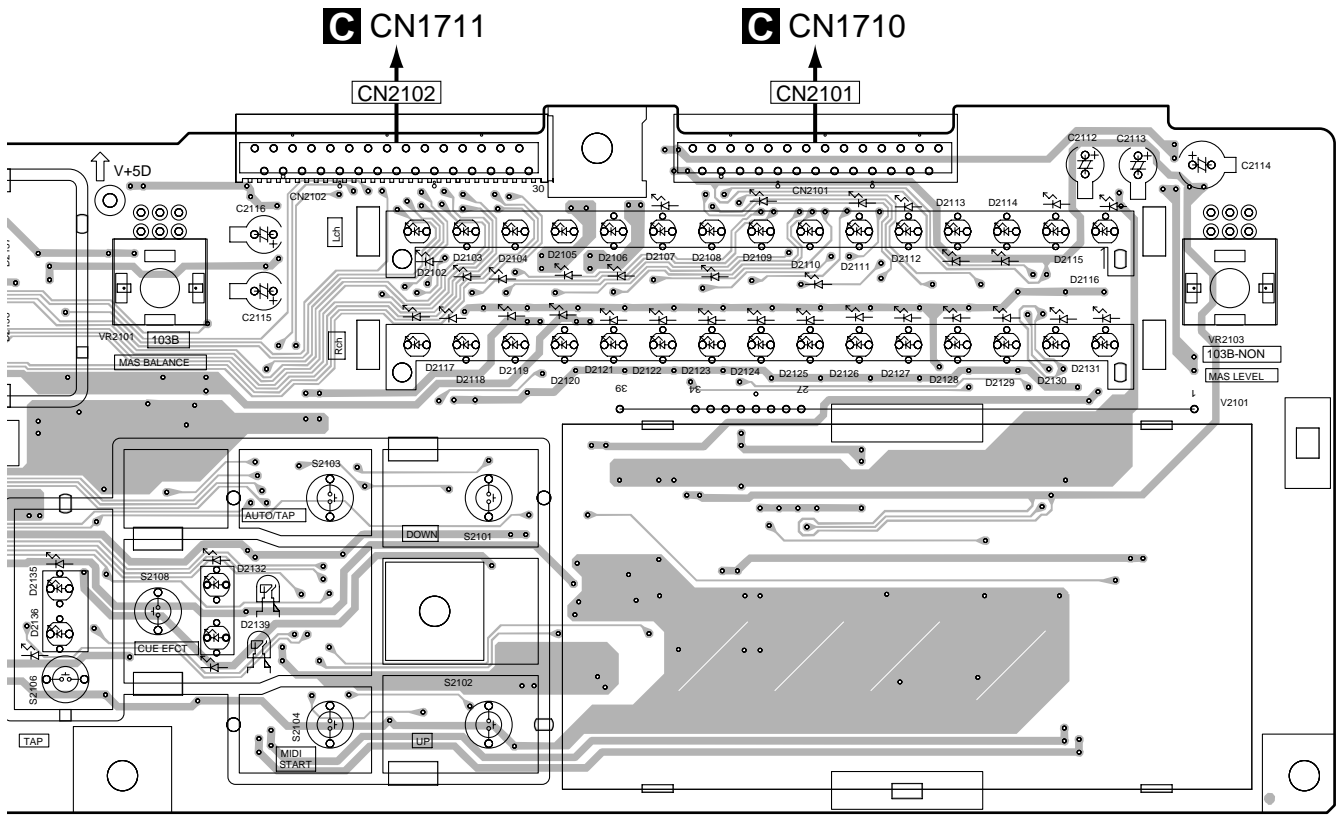


**F L**



**SIDE A**

A



B

C

(DNP2210-C)

D

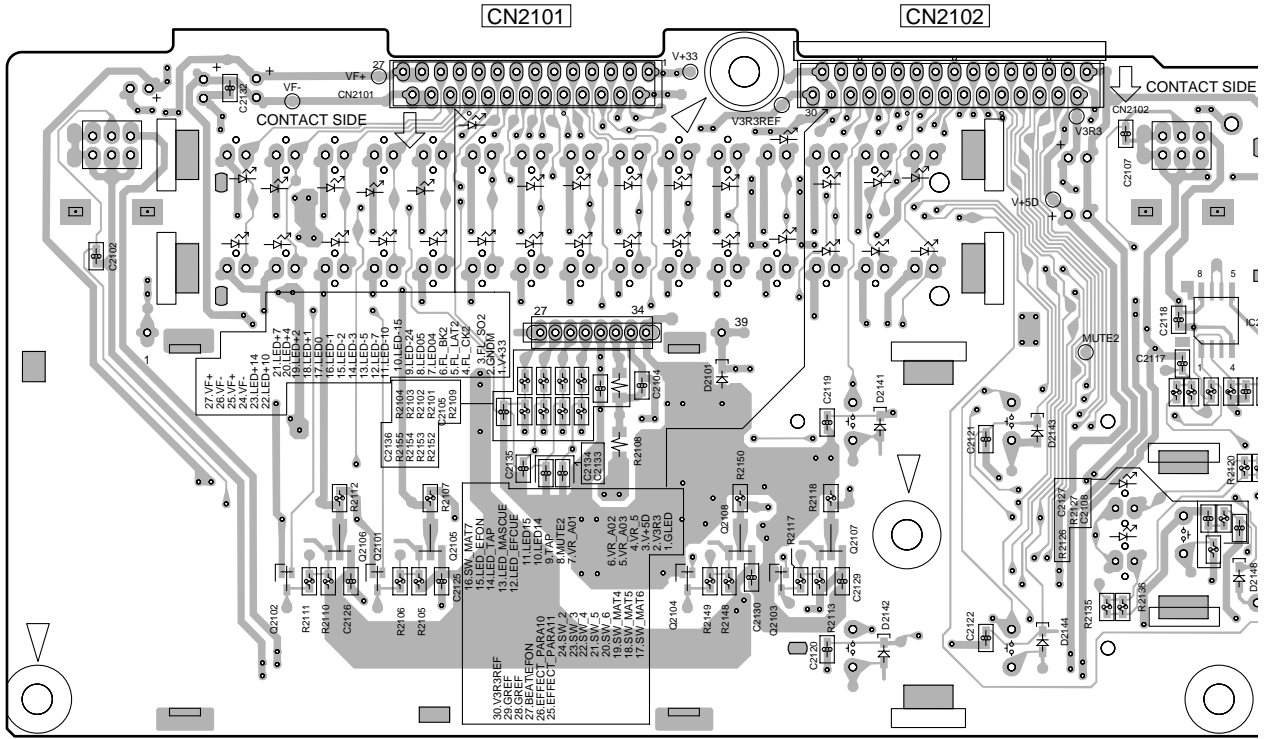
E

F

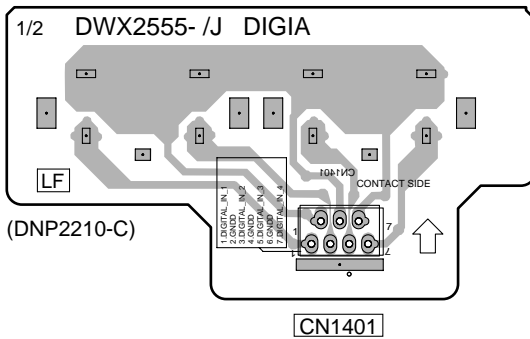


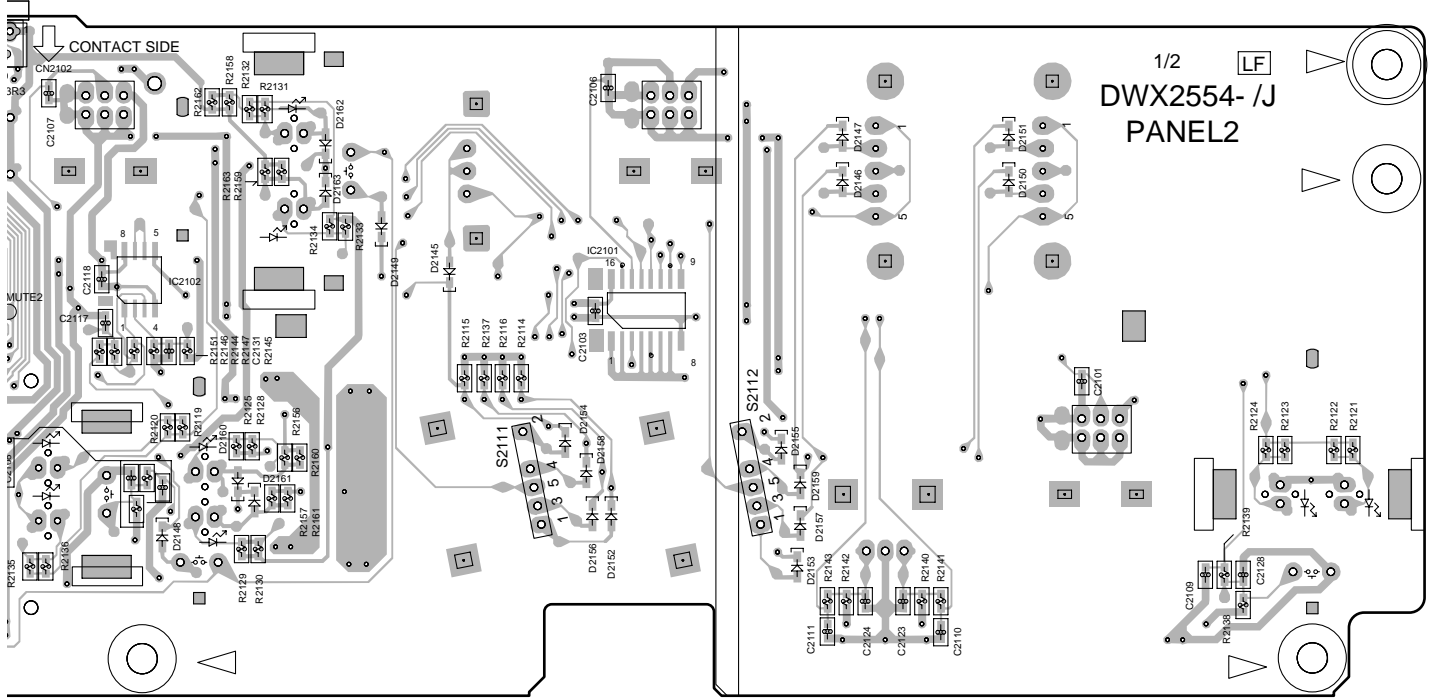
**SIDE B**

**F PANEL2 ASSY**



**L DIGIA ASSY**





IC2102

IC2101

(DNP2210-C)

1/2 LF  
DWX2554- /J  
PANEL2

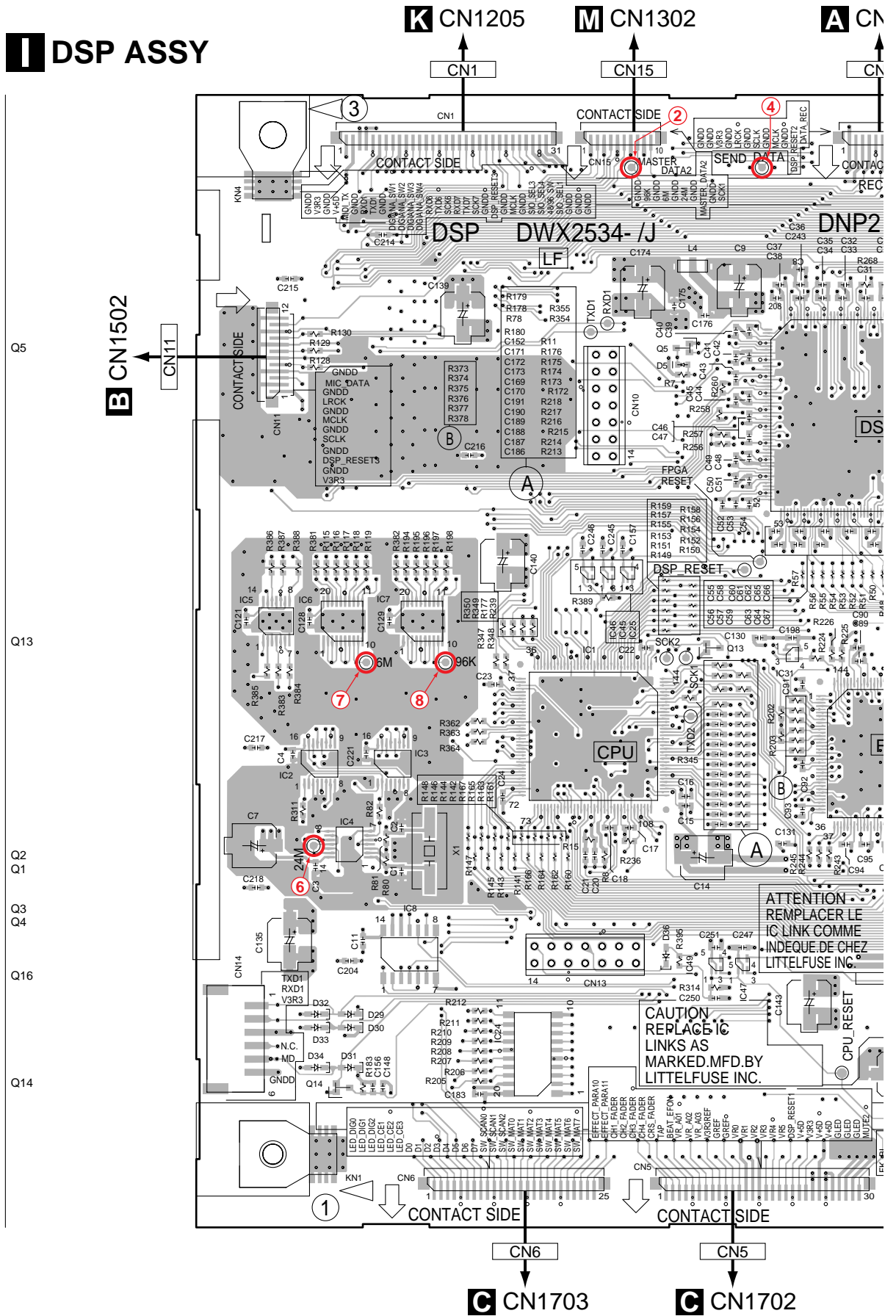
S2112

S2111

# 4.7 DSP ASSY

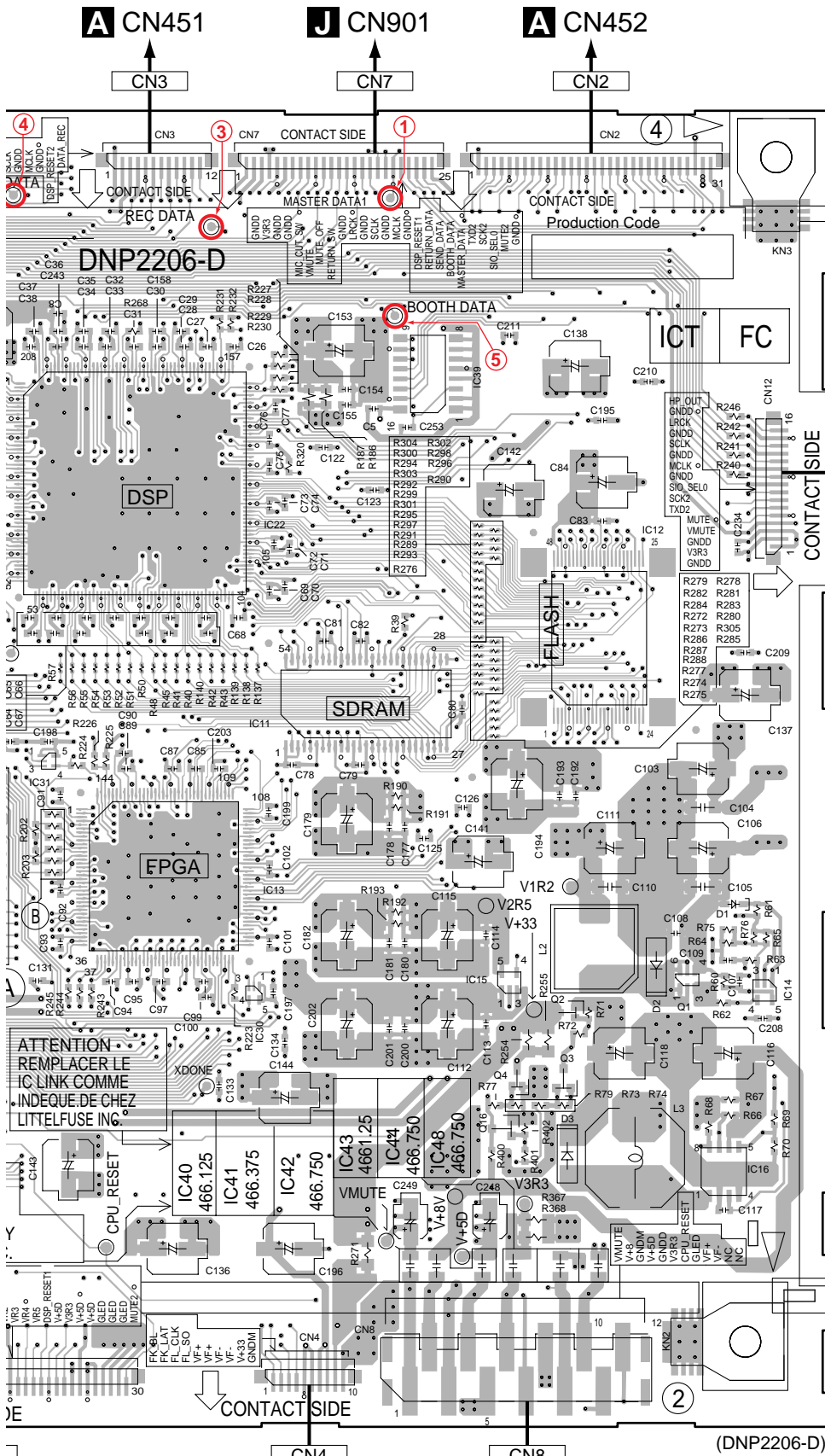
SIDE A

## DSP ASSY



A  
B  
C  
D  
E  
F

Q5  
Q13  
Q1  
Q2  
Q3  
Q4  
Q16  
Q14



702

NOTE : The encircled numbers denote measuring point.

**SIDE B**

**DSP ASSY**

A

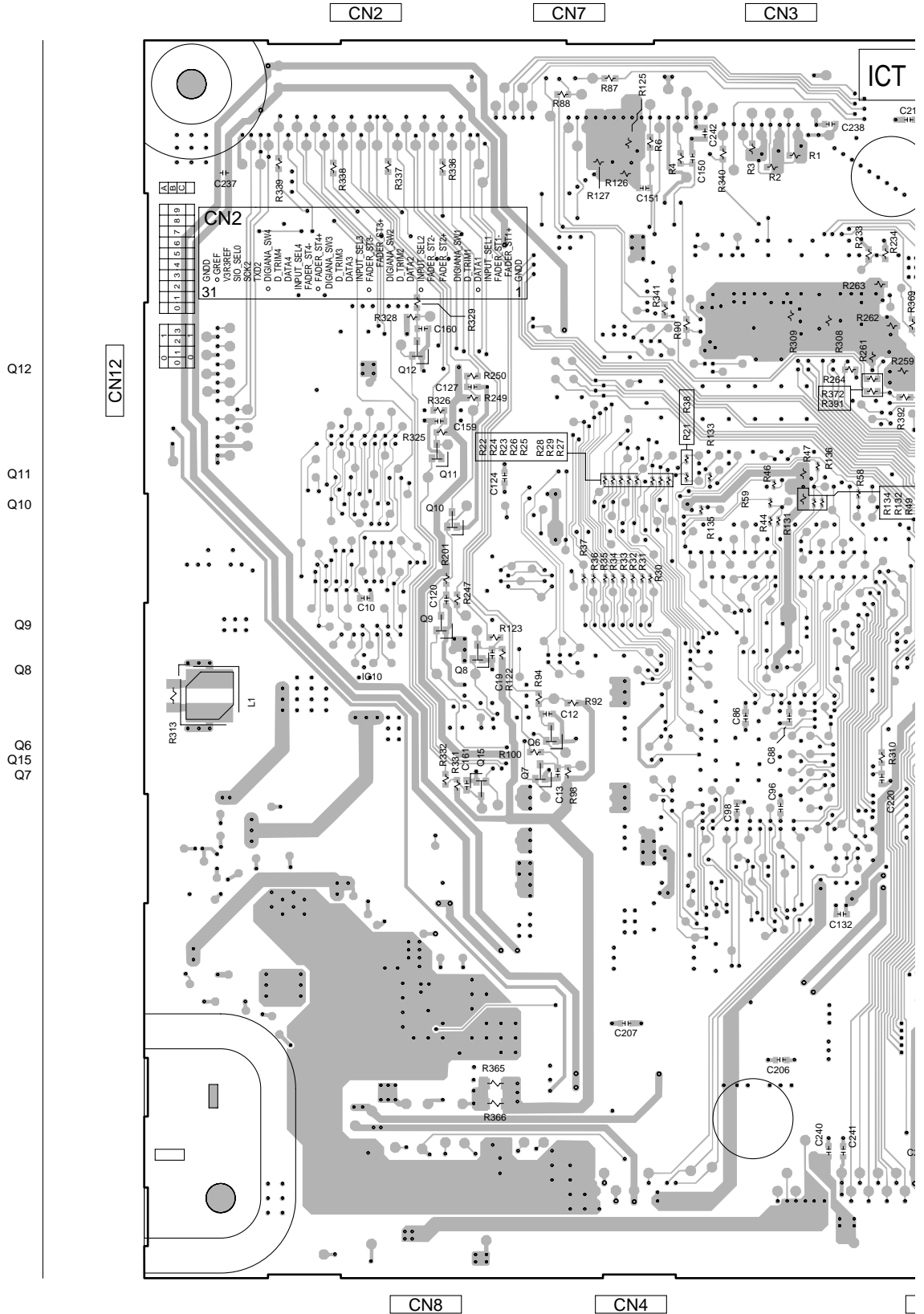
B

C

D

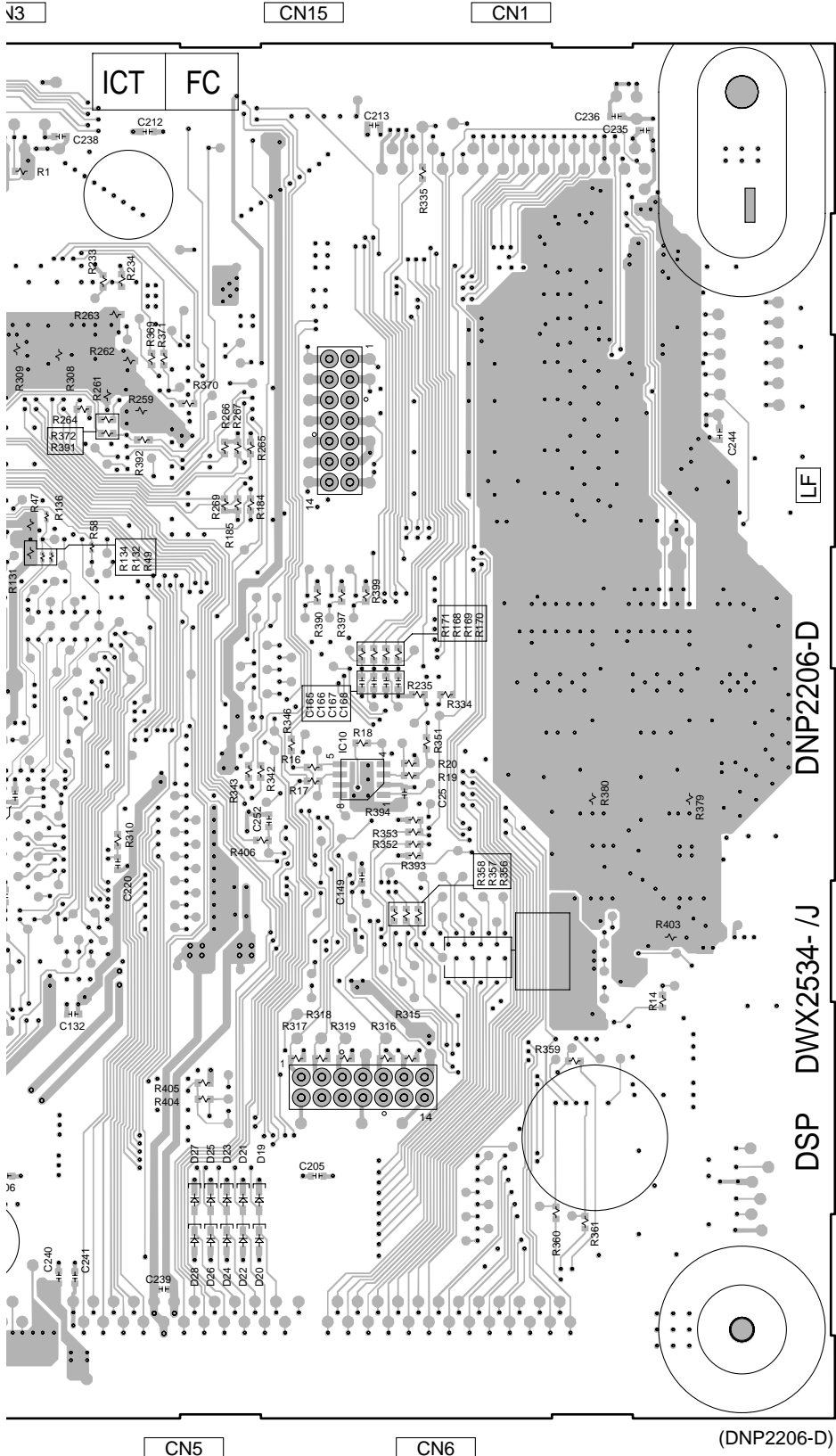
E

F



SIDE B

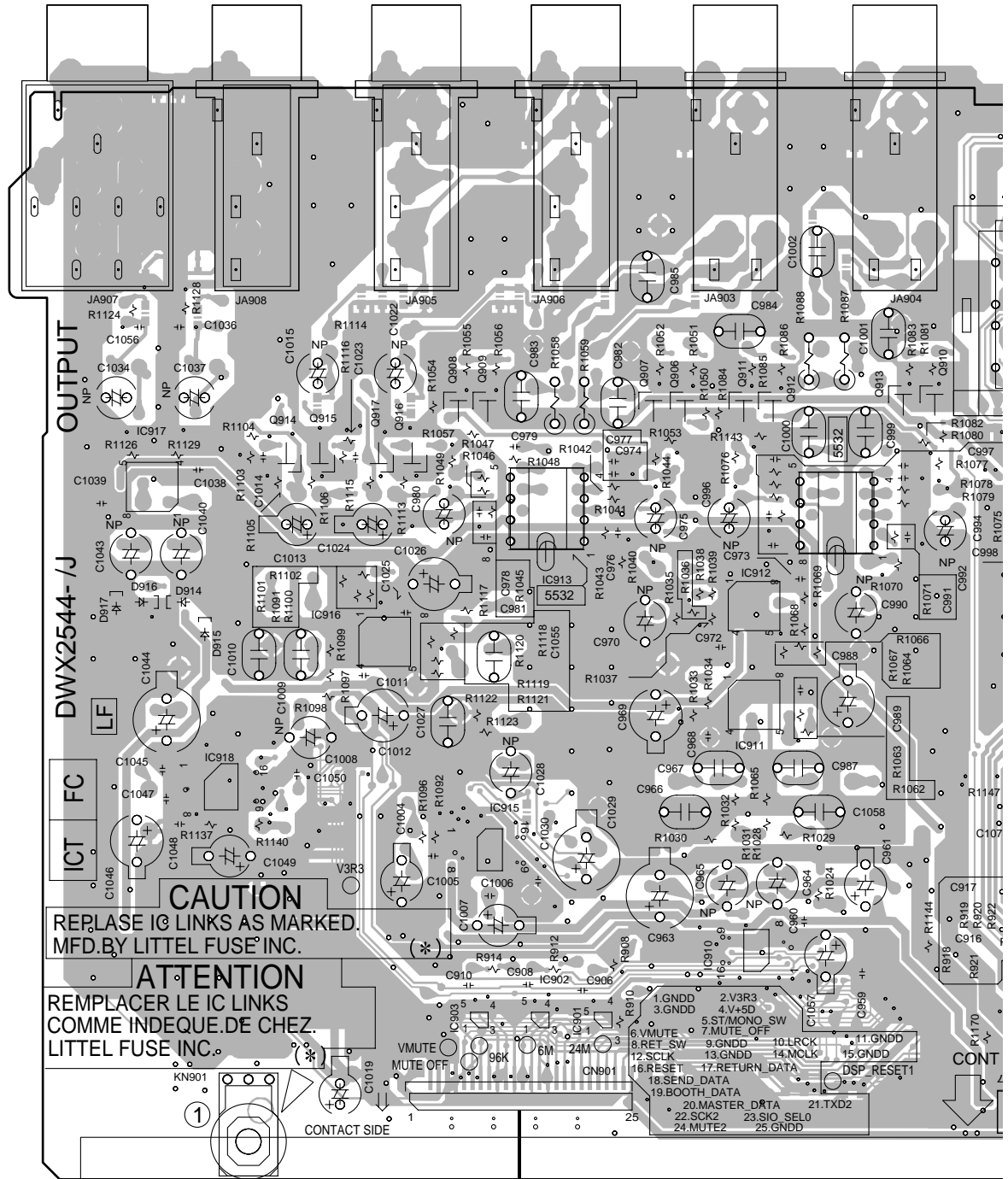
A  
B  
C  
D  
E  
F



# 4.8 OUTPUT ASSY

**SIDE A**

## J OUTPUT ASSY



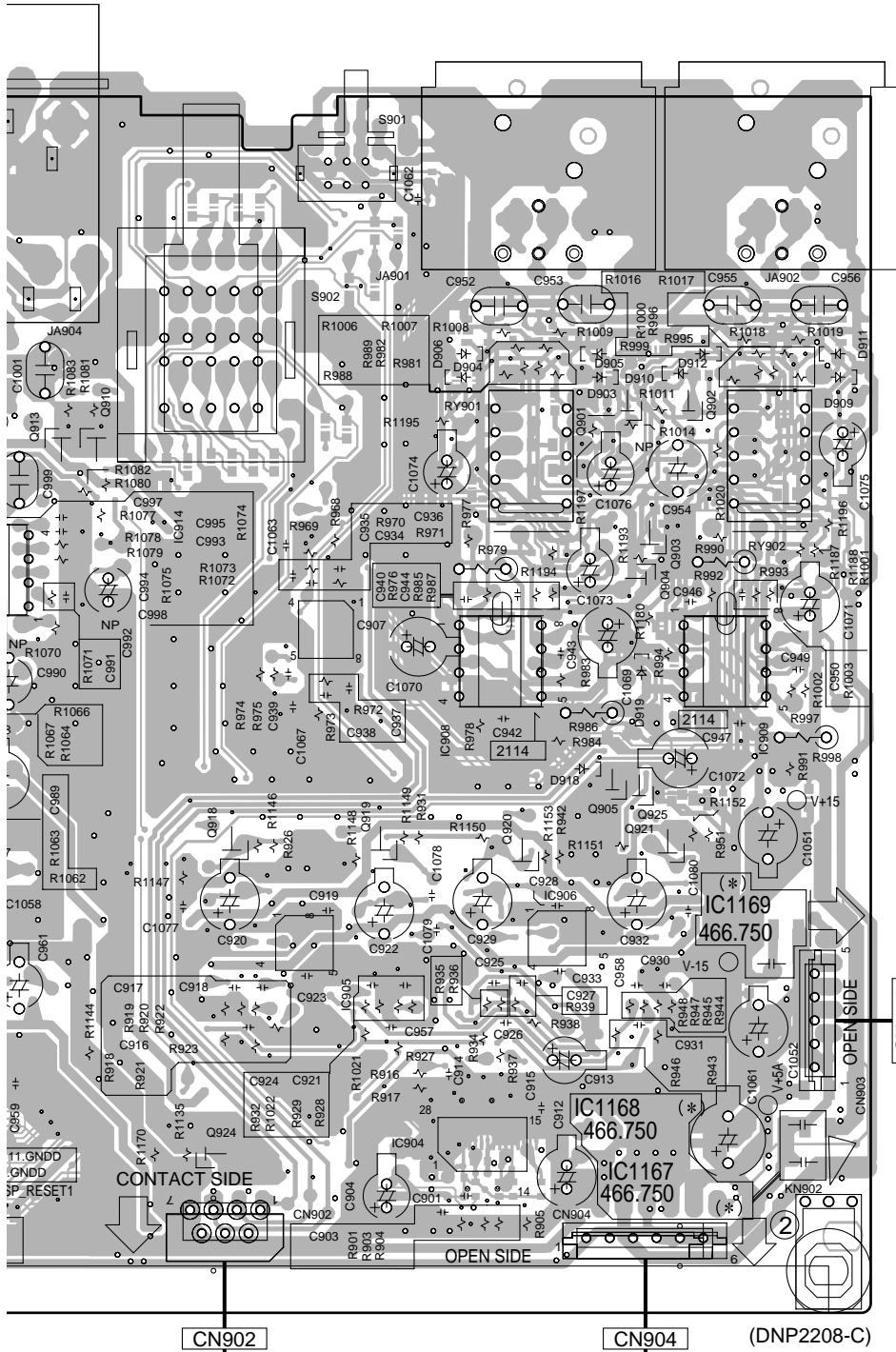
CN901  
CN7

IC917	IC918	IC916	IC903	IC915	IC901	IC911	IC910	IC912
Q914	Q915	Q917	Q916	Q908	Q909	Q907	Q911	Q912
Q913	Q910							

DJM-800



**SIDE A**



**A** CN454

**A** CN455

IC907  
IC904  
IC1168  
IC905 IC908 IC906 IC1167 IC1169 IC909

Q913 Q910 Q918 Q924 Q919 Q920 Q901 Q925 Q902 Q921 Q903 Q904 Q905

DJM-800

**J**

A  
B  
C  
D  
E  
F

SIDE B

A

# J OUTPUT ASSY

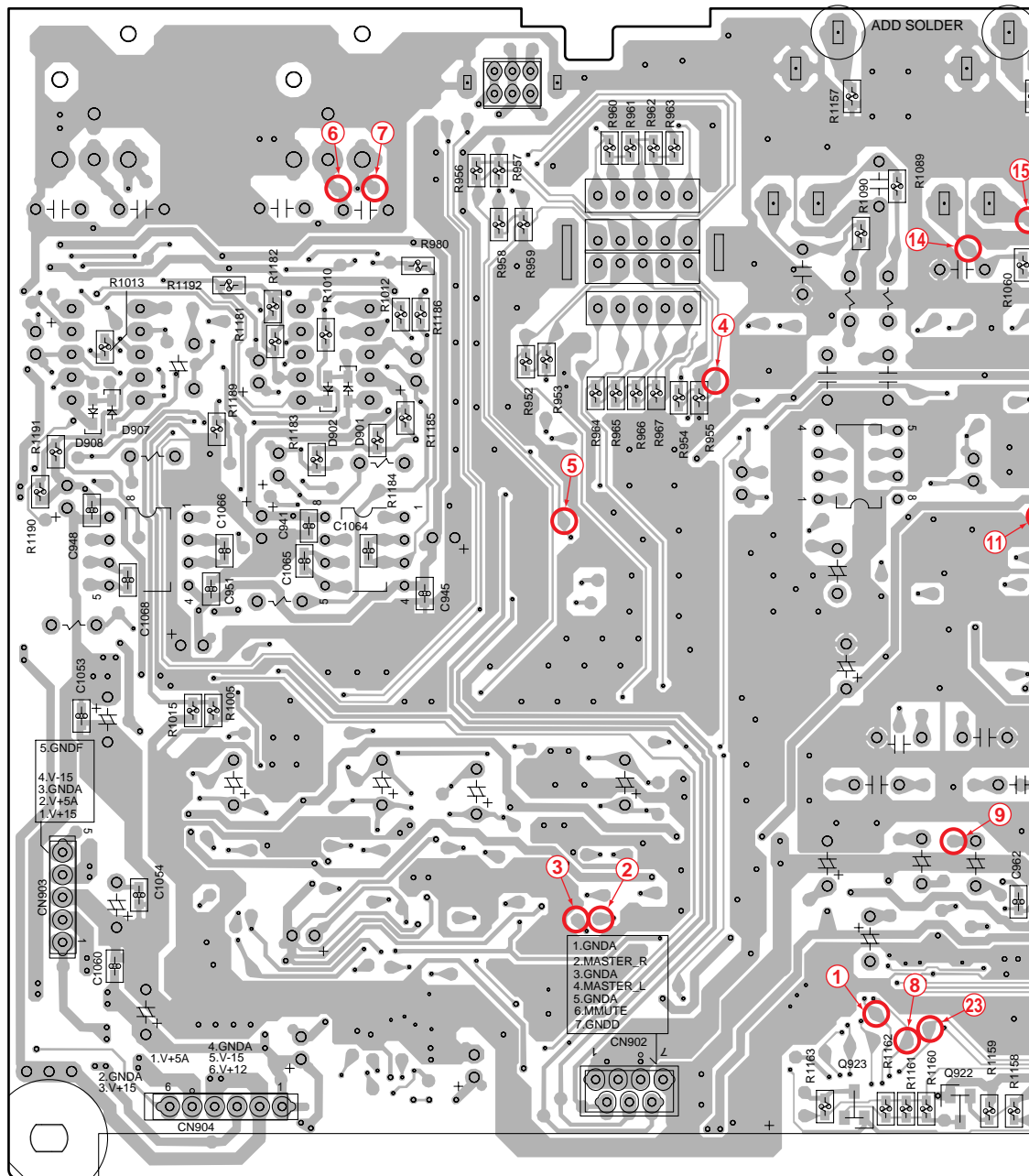
B

C

D

E

F



CN904

CN902

Q923

Q922

J

**SIDE B**

A

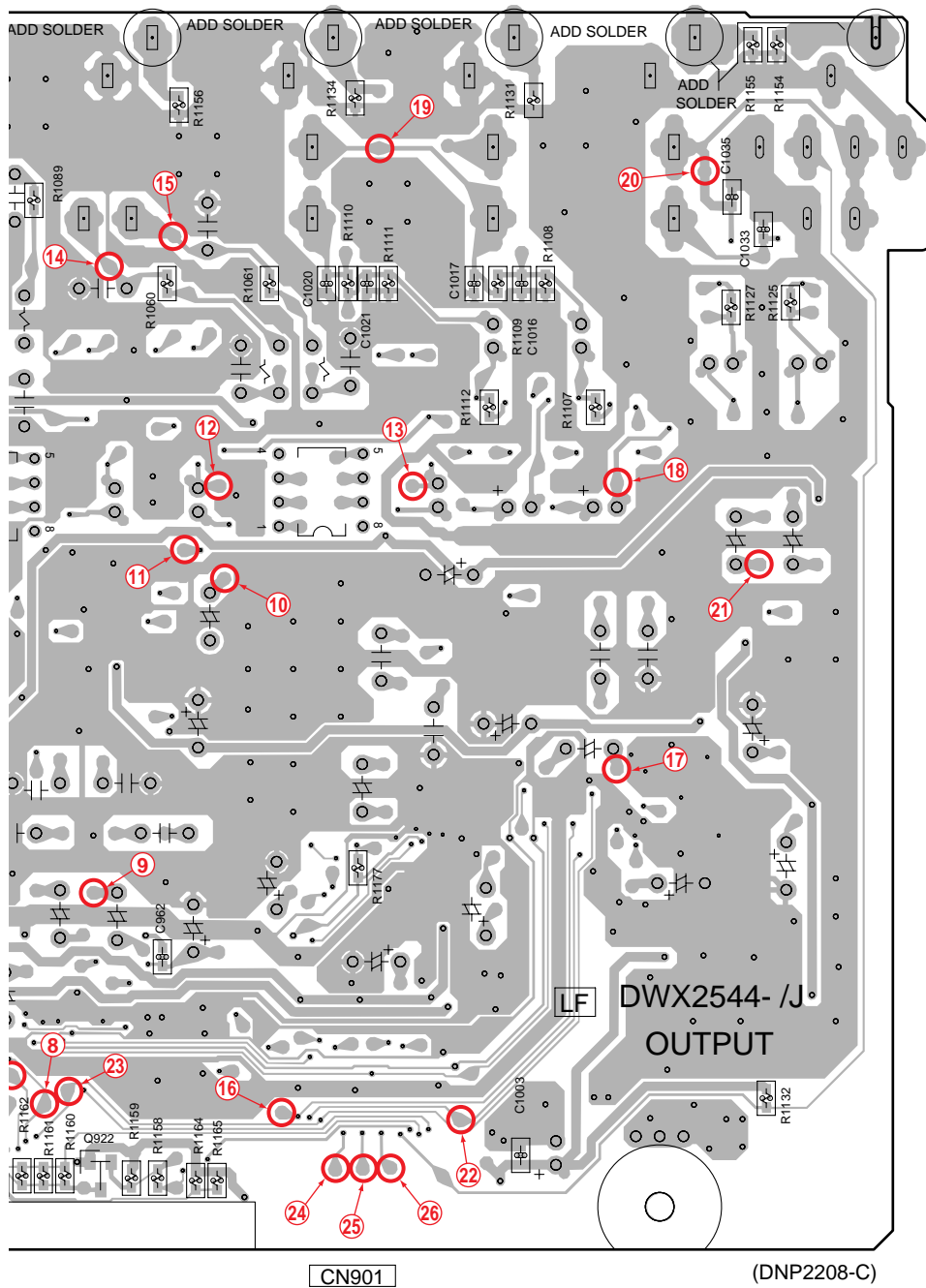
B

C

D

E

F



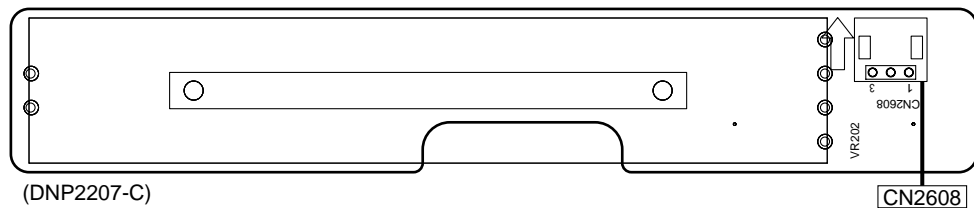
**NOTE :** The encircled numbers denote measuring point.

Q922

# 4.9 CRSFD, DIGIC and SLSW ASSYS

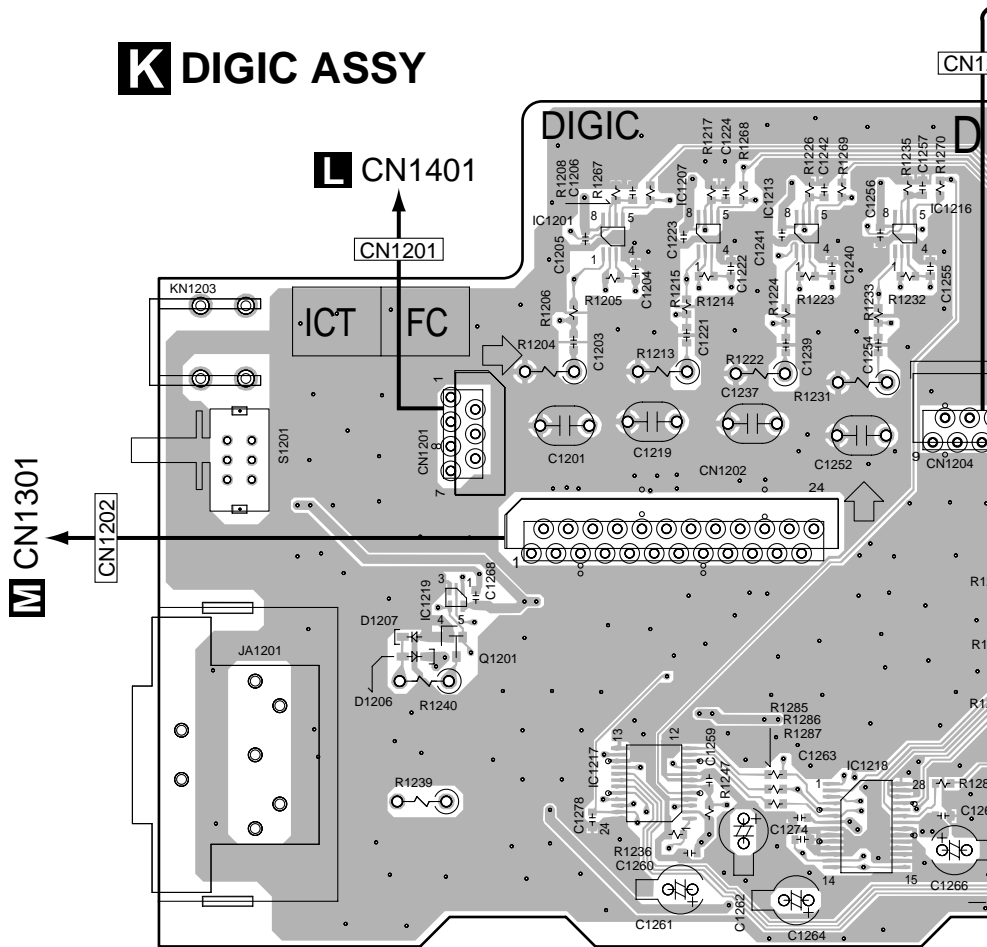
**SIDE A**

## **H** CRSFD ASSY



**C** CN1709

## **K** DIGIC ASSY



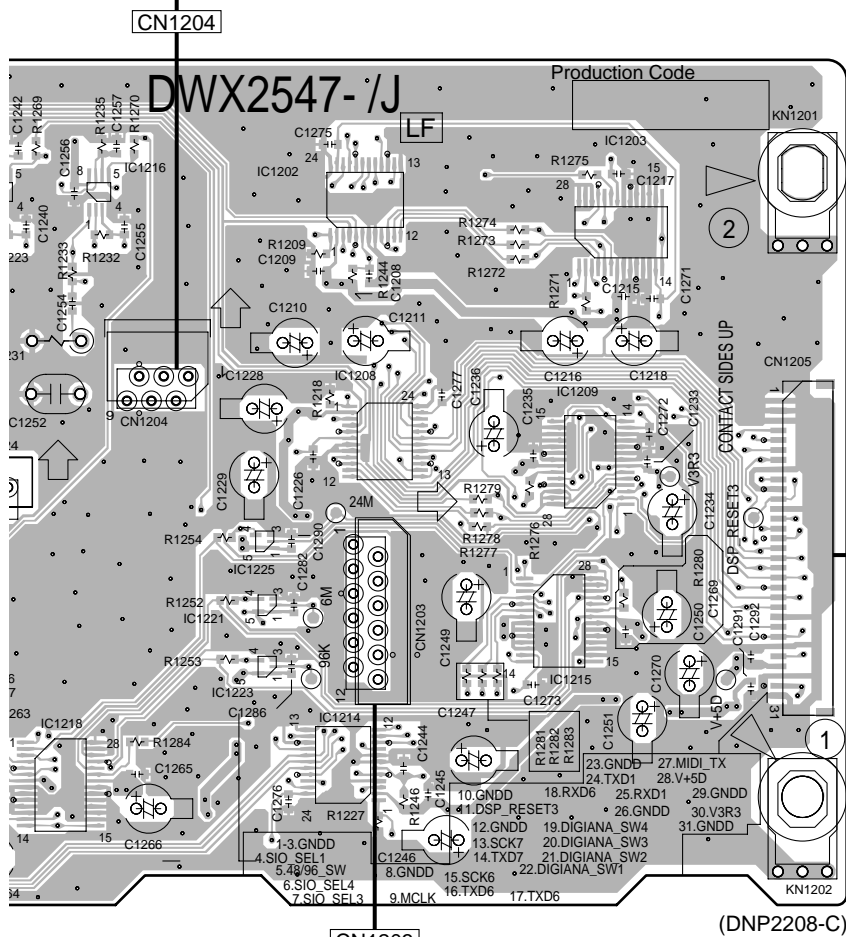
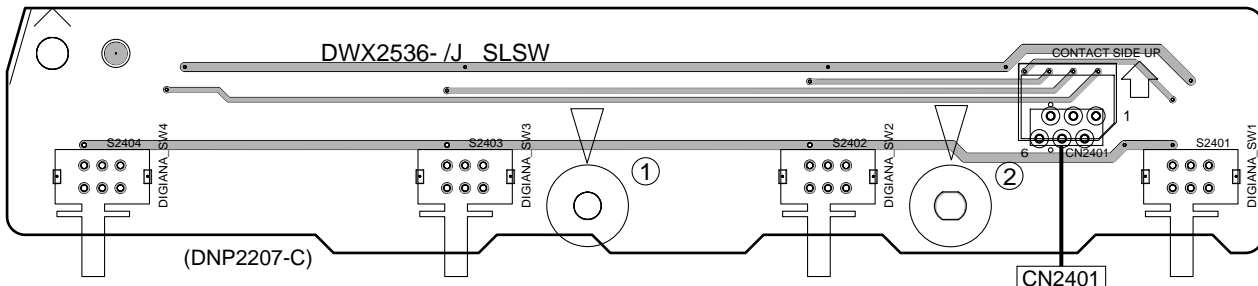
IC12

IC1219 IC1201 IC1217 IC1207 IC1213 IC1218 IC1216

Q1201

**K H**

# **N** SLSW ASSY



**A** CN453

IC1221

IC1223

IC1225 IC1208

IC1209

IC1218 IC1216

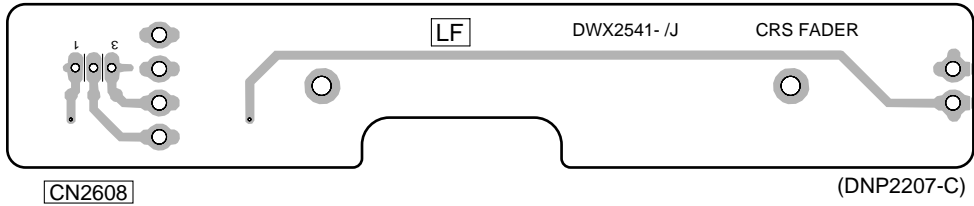
IC1202 IC1214

IC1215 IC1203

**SIDE B**

A

**H** CRSFD ASSY



B

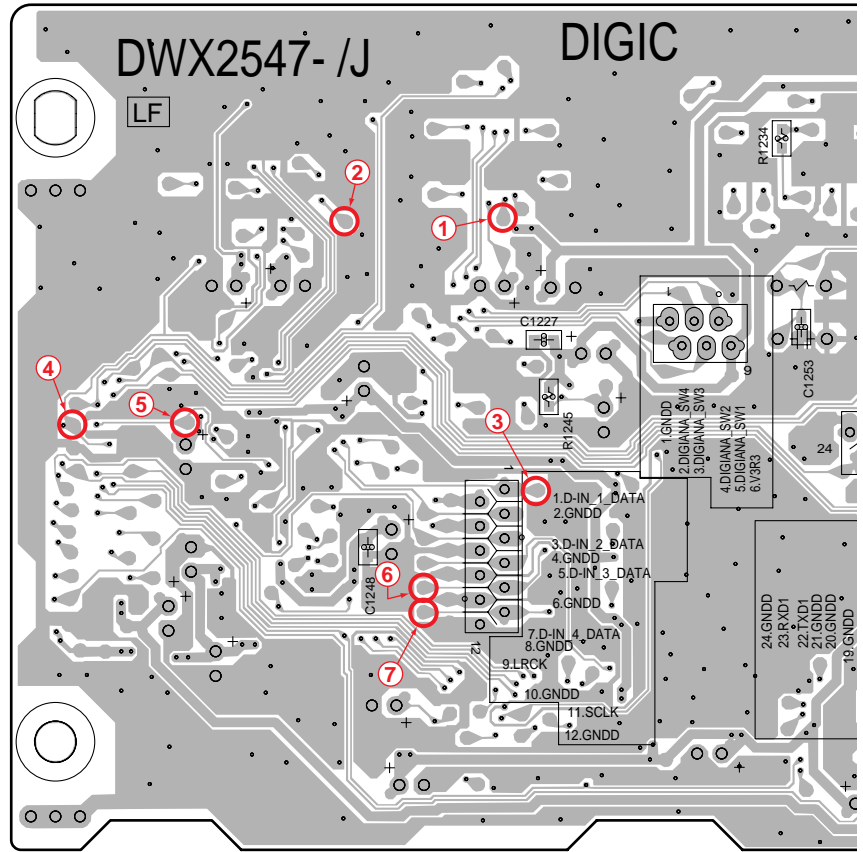
**N**



**K** DIGIC ASSY

C

CN1204



D

E

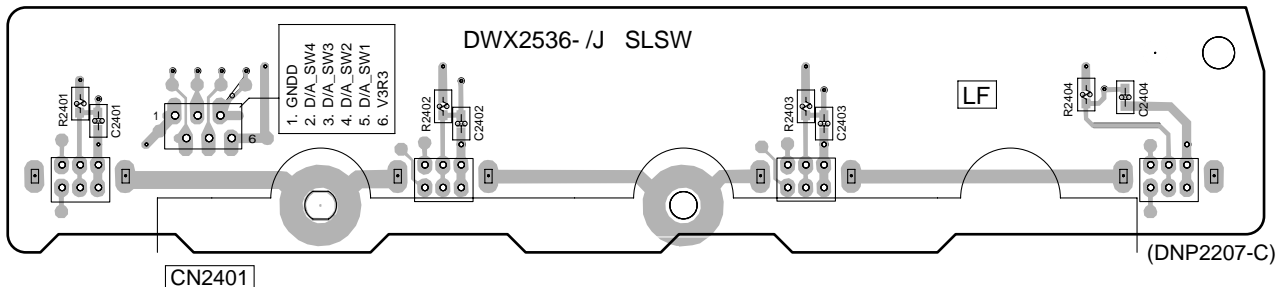
F

NOTE : The encircled numbers denote measuring point.

SIDE B

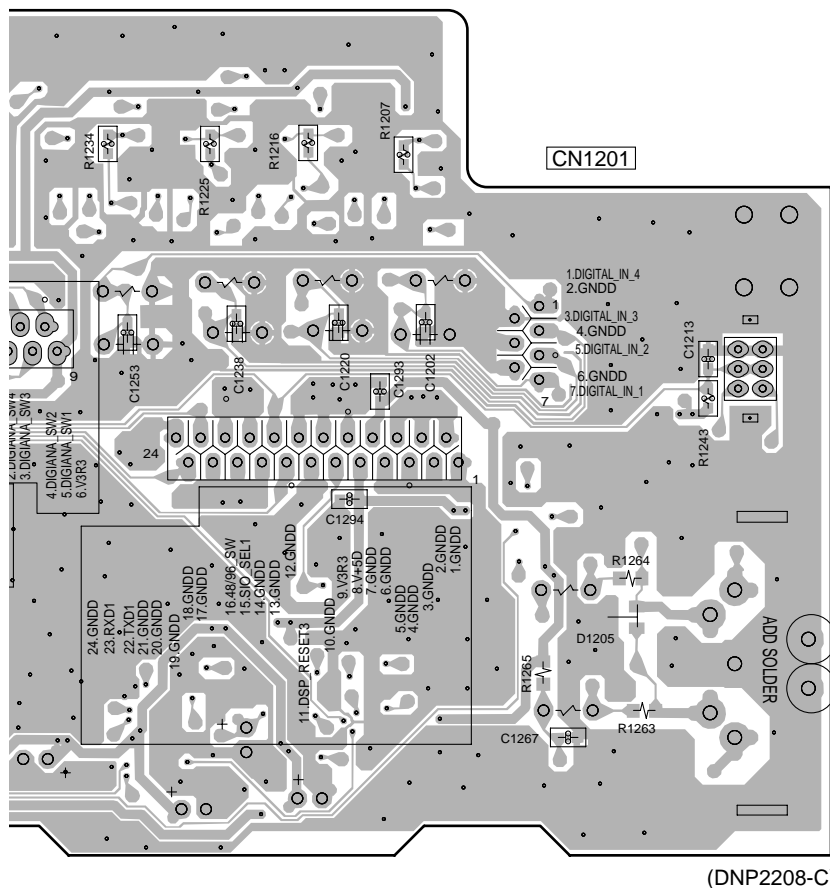
A

# N SLSW ASSY



B

204



C

D

E

F



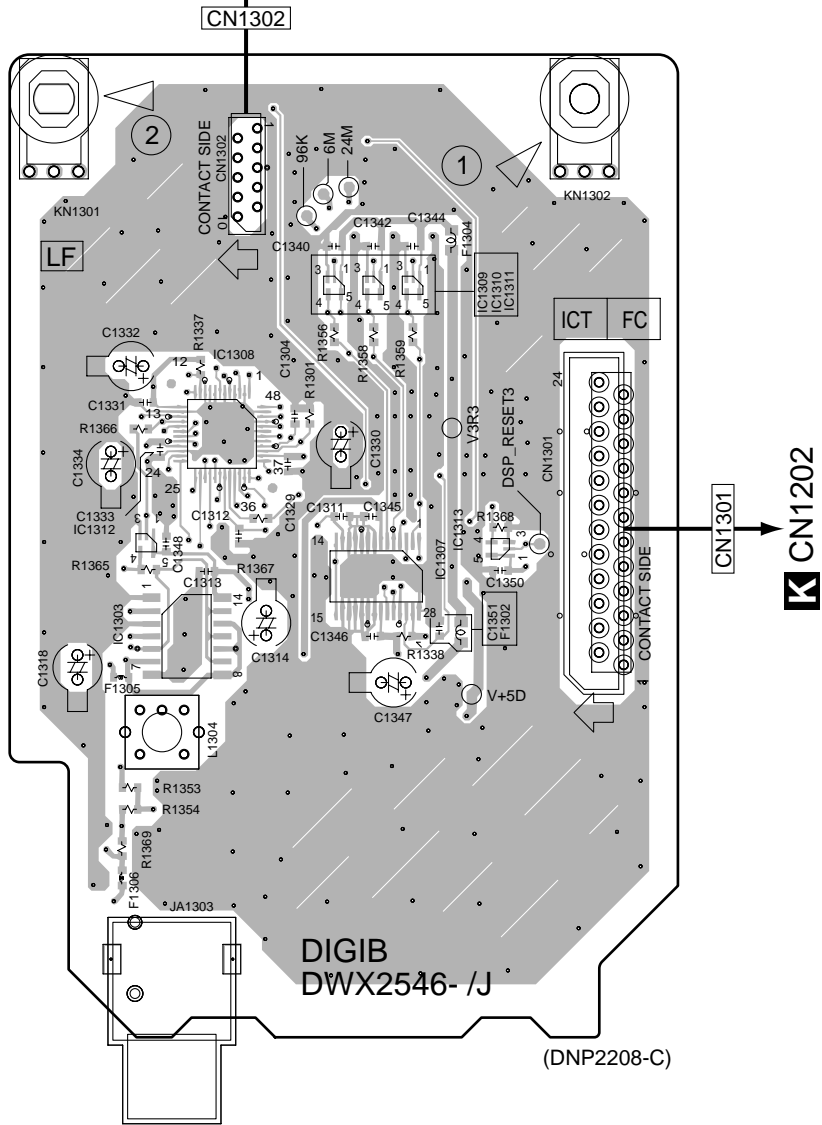
# 4.10 DIGIB ASSY

SIDE A

SIDE A

**M** DIGIB ASSY

**I** CN15



IC1312	IC1303	IC1308	IC1313	IC1309	IC1310	IC1307	IC1311
Q925							
Q903							

**M**

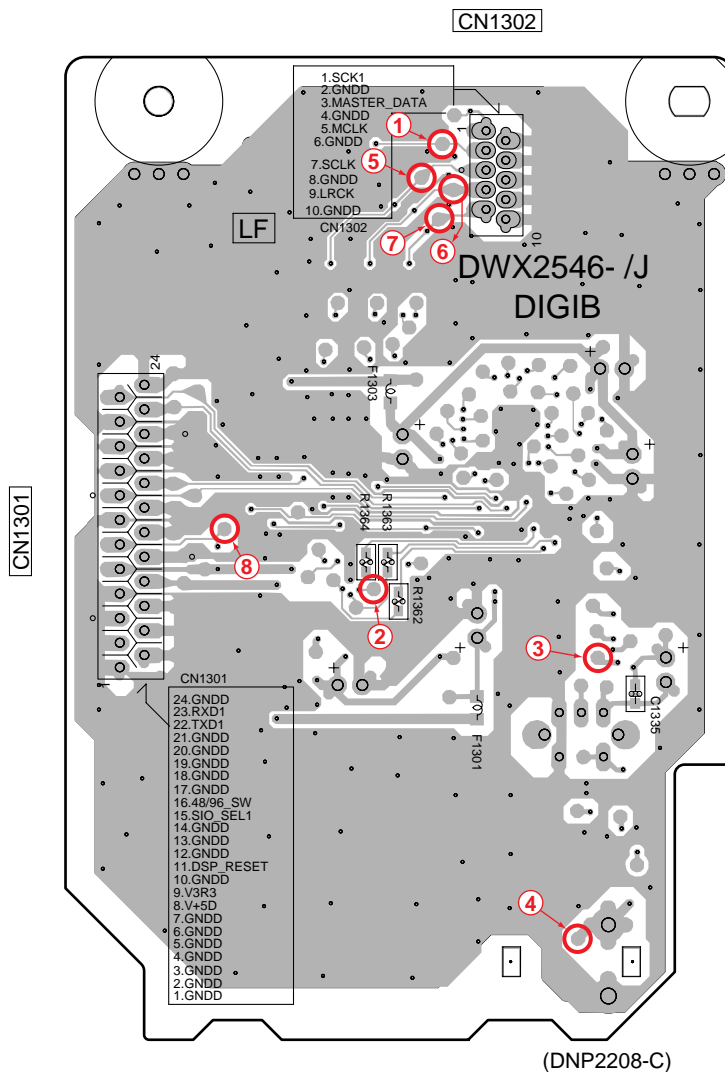
**M**



SIDE B

SIDE B

# M DIGIB ASSY



NOTE : The encircled numbers denote measuring point.

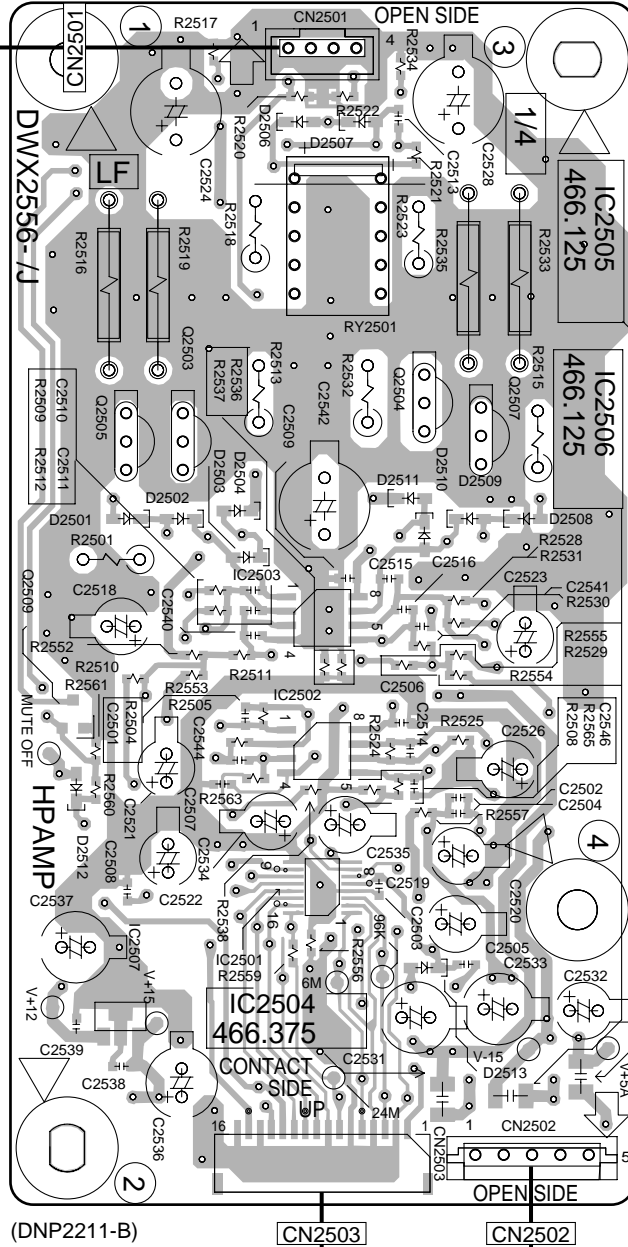
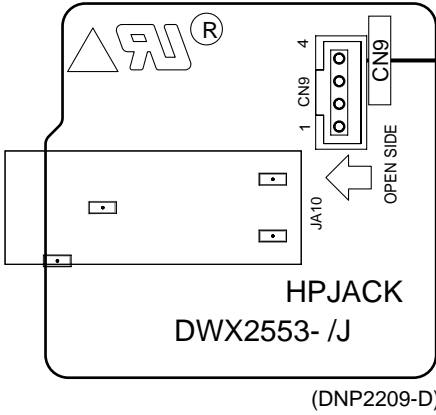
# 4.11 HPAMP and HPJACK ASSYS

**SIDE A**

**SIDE A**

**HPJACK ASSY**

**HPAMP ASSY**



- IC2505
- Q2503
- Q2504
- Q2507
- IC2506
- Q2505
- IC2503
- Q2509
- IC2502
- IC2504
- IC2501
- IC2504

**I CN12**

**Q CN203**

**O P**

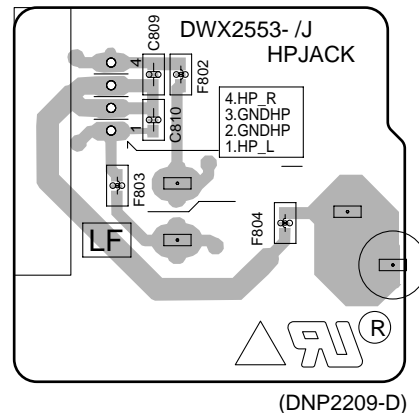
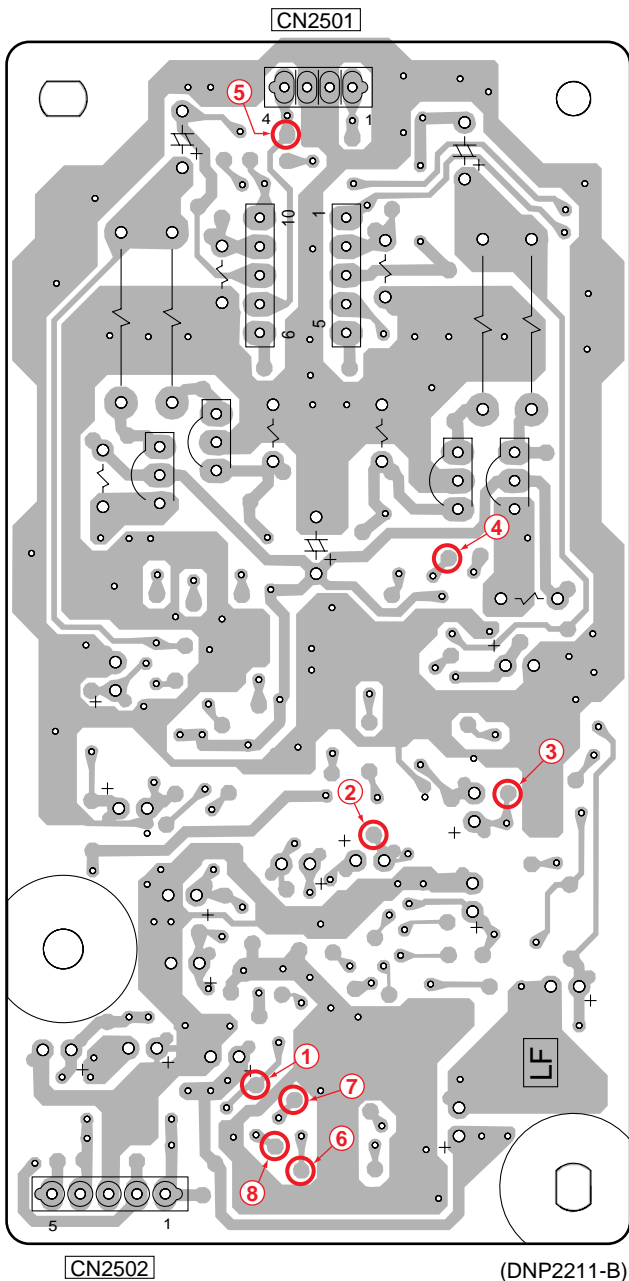
**O**

**SIDE B**

**SIDE B**

**O HPAMP ASSY**

**P HPJACK ASSY**



NOTE : The encircled numbers denote measuring point.

# 5. PCB PARTS LIST

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

● The  $\Delta$  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  $\Omega$  → 56 x 10<sup>1</sup> → 561 ..... RD1/4PU 5 6 1 J  
 47k  $\Omega$  → 47 x 10<sup>3</sup> → 473 ..... RD1/4PU 4 7 3 J  
 0.5  $\Omega$  → R50 ..... RN2H R 5 0 K  
 1  $\Omega$  → 1R0 ..... RS1P 1 R 0 K

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

5.62k  $\Omega$  → 562 x 10<sup>1</sup> → 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

$\Delta$  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  
 $\Delta$  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.	Part No.
C838 C462, C562, C662, C762 C507, C508, C607, C608 C707, C708	CEHAR100M35 CEHAR101M10 CEHAT471M25 CEHAT471M25	R549, R564, R567, R646, R649 R664, R667, R746, R749, R764 R767	RN1/16SE1201D RN1/16SE1201D RN1/16SE1201D
C829, C841 C866, C867, C870, C871 C843 C463, C563, C663, C763 C830, C833	CEJQ100M25 CEJQ101M25 CEJQ221M10 CEJQ221M6R3 CEJQ470M10	R407, R408, R423, R424 R523, R524, R623, R624 R723, R724 R430, R434, R530, R534, R630 R634, R730, R734	RN1/16SE1502D RN1/16SE1502D RN1/16SE1502D RN1/16SE1503D RN1/16SE1503D
C853, C861, C865 C432–C434, C437–C439 C532–C534, C537–C539 C632–C634, C637–C639 C732–C734, C737–C739	CEJQ470M25 CFTNA334J50 CFTNA334J50 CFTNA334J50 CFTNA334J50	R428, R432, R528, R532, R628 R632, R728, R732 R441, R443, R459, R461, R541 R543, R559, R561, R641, R643 R659, R661, R741, R743, R759	RN1/16SE2202D RN1/16SE2202D RN1/16SE2401D RN1/16SE2401D RN1/16SE2401D
C402, C446, C451, C453–C455 C459, C502, C546, C551 C553–C555, C559, C602, C646 C651, C653–C655, C659, C702 C746, C751, C753–C755, C759	CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50	R761 R801–R804, R817–R820 R436–R439, R444, R445 R454–R457, R462, R463 R474, R475, R536–R539	RN1/16SE2401D RN1/16SE2700D RN1/16SE3301D RN1/16SE3301D RN1/16SE3301D
C831, C832, C842 C868, C869, C876 C401, C417, C418, C427, C428 C436, C441–C443, C447, C448 C458, C468, C469, C491–C496	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB104K25 CKSRYB104K25	R544, R545, R554–R557 R562, R563, R596, R597 R636–R639, R644, R645 R654–R657, R662, R663 R674, R675, R696, R697	RN1/16SE3301D RN1/16SE3301D RN1/16SE3301D RN1/16SE3301D RN1/16SE3301D
C501, C517, C518, C527, C528 C536, C541–C543, C547, C548 C558, C568, C569, C600 C617, C618, C627, C628, C636 C641–C643, C647, C648, C658	CKSRYB104K25 CKSRYB104K25 CKSRYB104K25 CKSRYB104K25 CKSRYB104K25	R736–R739, R744, R745 R754–R757, R762, R763 R774, R775, R796, R797 R447, R448, R465, R466 R547, R548, R565, R566	RN1/16SE3301D RN1/16SE3301D RN1/16SE3301D RN1/16SE3601D RN1/16SE3601D
C668, C669, C701, C717, C718 C727, C728, C736, C741–C743 C747, C748, C758, C768, C769 C821, C825, C834, C837 C844, C845, C852, C860	CKSRYB104K25 CKSRYB104K25 CKSRYB104K25 CKSRYB104K25 CKSRYB104K25	R647, R648, R665, R666 R747, R748, R765, R766 R809–R812 R503–R506, R603–R606 R703–R706	RN1/16SE3601D RN1/16SE3601D RN1/16SE4300D RN1/16SE8200D RN1/16SE8200D
C862–C864, C872, C873 C877, C878 C457, C557, C657, C757 C470, C475, C570, C575, C670 C675, C770, C775	CKSRYB104K25 CKSRYB104K25 CKSRYB104K50 CKSRYB272K50 CKSRYB272K50	R429, R433, R529, R533, R629 R633, R729, R733 R898 R511, R512, R611, R612 R711, R712	RN1/16SE1202D RN1/16SE1202D RS1/8S0ROJ RSK1/16S222J RSK1/16S222J
C452, C552, C652, C752 C511, C512, C611, C612 C711, C712 C514, C515, C614, C615 C714, C715, C801–C804	CKSRYB473K50 CQMA124J50 CQMA124J50 CQMA222J50 CQMA222J50	R509, R510, R609, R610 R709, R710 R507, R508, R607, R608 R707, R708 Other Resistors	RSK1/16S273J RSK1/16S273J RSK1/16S510J RSK1/16S510J RS1/16S###J
C505, C506, C605, C606 C705, C706 C828, C840 C513, C516, C613, C616, C713 C716	CQMA223J50 CQMA223J50 CQMA272J50 CQMA333J50 CQMA333J50	<b>OTHERS</b>	
C805–C808, C827, C839 C813–C816	CQMA392J50 CQMA682J50	CN454 7P FFC CONNECTOR CN453 12P FFC CONNECTOR CN451 12P FFC CONNECTOR CN452 31P FFC CONNECTOR SHIELD CASE S  JA402 REMOTE CONTROL JACK JA502 REMOTE CONTROL JACK JA602 REMOTE CONTROL JACK JA702 REMOTE CONTROL JACK CN455 6P SIDE POST	52044-0745 52044-1245 DKN1450 DKN1451 DNH2717  RKN1004 RKN1004 RKN1004 RKN1004 S6B-EH
<b>RESISTORS</b> R401, R402, R419, R420 R519, R520, R619, R620 R719, R720 R403, R404, R421, R422 R521, R522, R621, R622	RN1/16SE1001D RN1/16SE1001D RN1/16SE1001D RN1/16SE1102D RN1/16SE1102D	JA401, JA501, JA601, JA701, JA801 4P JACK KN1, KN2 WRAPPING TERMINAL CN401, CN501, CN601, CN701 11P PLUG	VKB1132 VNF1084 XKP3065
R721, R722 R446, R449, R464, R467, R546	RN1/16SE1102D RN1/16SE1201D		

**Mark No. Description****Part No.****Mark No. Description****Part No.****B MIC1 ASSY****SEMICONDUCTORS**

IC1501	AK5381VT
IC1502, IC1503	NJM4580MD
Q1501-Q1504	2SC4081
D1510-D1515	1SS355
D1518-D1521	RB501V-40

**COILS AND FILTERS**

F1547-F1549	DTF1069
F1541, F1543, F1545	VTF1093
L1542, L1544, L1546	VTL1105

**CAPACITORS**

C1505, C1516, C1518, C1525	CCSRCH101J50
C1501-C1503, C1509-C1514, C1524	CCSRCH102J50
C1504, C1517	CCSRCH331J50
C1508, C1521, C1532, C1534, C1535	CEAL100M16
C1537	CEAL100M16

C1538	CEAL101M10
C1543, C1544	CEAL101M25
C1540	CEAL470M10
C1539, C1541, C1542	CEAL470M16
C1530, C1531	CEALNP220M16

C1550, C1552	CFTLA103J50
C1529	CKSRYB103K50
C1506, C1507, C1519, C1520	CKSRYB104K25
C1546-C1549, C1551	CKSRYB104K25
C1526-C1528	CKSRYB104K50

C1545	CKSRYB472K50
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**RESISTORS**

R1503, R1514, R1515, R1529	RN1/16SE1000D
R1504, R1505, R1519, R1520	RN1/16SE1501D
R1508, R1523	RN1/16SE3300D
R1506, R1509, R1510, R1521	RN1/16SE3901D
R1524, R1525	RN1/16SE3901D

R1516, R1517, R1530, R1531	RN1/16SE4701D
Other Resistors	RS1/16S###J

**OTHERS**

0 4P CABLE HOLDER	51048-0400
JA1502 CANON CONNECTOR	DKB1068
CN1503 CONNECTOR	DKN1408
CN1502 12P FFC CONNECTOR	DKN1450
J1502 4P JUMPER WIRE	DKP3767

CN1501 5P SIDE POST	S5B-EH
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**C PANEL1 ASSY**  
**SEMICONDUCTORS**

IC1706-IC1708	TC74HC238AF
IC1711-IC1713	TC74HC273AF
IC1701-IC1705	TC74HC4051AF
IC1714	TC74HCT08AF
IC1709, IC1710	TD62083APG

Q1705-Q1708, Q1721-Q1724	2SB1188
Q1701-Q1704, Q1709-Q1720	DTC143EUA

D1701-D1710, D1796-D1829	1SS355
D1735, D1788-D1795	SLI-343URCW(RST)
D1723-D1734, D1772-D1787	SLI-343YCW(RST)

D1719-D1722	SLR-343BBT(HJKL)
D1711-D1714	SPR-325MVW
D1736-D1771	TLGE68TG(NP)

**SWITCHES AND RELAYS**

S1707-S1718	DSG1079
S1702	DSH1057
S1719-S1722	DSH1058
S1701	DSK1026
S1703-S1706	DSK1033

**CAPACITORS**

C1741-C1743	CEHAT101M16
C1737, C1739, C1740	CKSRYB103K50
C1701-C1736, C1747-C1755	CKSRYB104K25

**RESISTORS**

VR1703-VR1707, VR1709-VR1711	DCS1065
VR1713-VR1715, VR1717-VR1719, VR1721	DCS1065
VR1701, VR1702	DCS1072
VR1722	DCS1086
VR1708, VR1712, VR1716, VR1720	DCS1095

Other Resistors	RS1/16S###J
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**OTHERS**

CN1710 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-Y

CN1701 10P FFC CONNECTOR	DKN1454
CN1702 30P FFC CONNECTOR	DKN1455
CN1703 25P FFC CONNECTOR	DKN1456
CN1704 CONNECTOR	DKP3684

**D 4/4 TRIM1 ASSY****CAPACITORS**

C491	CKSRYB104K50
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**RESISTORS**

VR491	DCS1089
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**OTHERS**

CN491 11P SOCKET	XKP3076
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**D 3/4 TRIM2 ASSY****CAPACITORS**

C591	CKSRYB104K50
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**RESISTORS**

VR591	DCS1089
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5	6
Mark No. Description	Part No.
<b>OTHERS</b> CN591 11P SOCKET	XKP3076
<b>D 2/4 TRIM3 ASSY</b> <b>CAPACITORS</b> C691	CKSRYB104K50
<b>RESISTORS</b> VR691	DCS1089
<b>OTHERS</b> CN691 11P SOCKET	XKP3076
<b>D 1/4 TRIM4 ASSY</b> <b>CAPACITORS</b> C791	CKSRYB104K50
<b>RESISTORS</b> VR791	DCS1089
<b>OTHERS</b> CN791 11P SOCKET	XKP3076
<b>E MIC2 ASSY</b> <b>SEMICONDUCTORS</b> D1	UDZS5R6(B)
<b>CAPACITORS</b> C2 C1	CKSRYB103K50 CKSRYB472K50
<b>OTHERS</b> 0 4P CABLE HOLDER JA1501 MIC JACK EARTH PLATE (MIC)	51048-0400 DKB1076 DNH2735
<b>F PANEL2 ASSY</b> <b>SEMICONDUCTORS</b> IC2102 IC2101 Q2105-Q2108 Q2101-Q2104 D2141-D2163  D2115, D2116, D2130, D2131 D2111-D2114, D2126-D2129 D2133-D2138 D2132, D2139 D2102-D2110, D2117-D2125  D2101	NJM2903M TC74HC4051AF 2SB1188 DTC143EUA 1SS355  SLI-343URCW(RST) SLI-343YCW(RST) SLI-343YCW(RST) SLR-343EBT(KLMN) TLGE68TG(NP)  UDZS2R0(B)
<b>SWITCHES AND RELAYS</b> S2101-S2104, S2106-S2109	DSG1079

7	8
Mark No. Description	Part No.
S2113, S2114 S2105 S2110 S2111, S2112	DSH1058 DSH1066 DSX1064 DSX1068
<b>CAPACITORS</b> C2112, C2113, C2115, C2116 C2114 C2104, C2123, C2124, C2127, C2128 C2132 C2101-C2103, C2105-C2107  C2117, C2118, C2125, C2126 C2129-C2131	CEHAT101M10 CEHAT470M50 CKSRYB103K50 CKSRYB103K50 CKSRYB104K25  CKSRYB104K25 CKSRYB104K25
<b>RESISTORS</b> R2108, R2109 VR2101, VR2104 VR2102, VR2103 Other Resistors	RS1/8S100J DCS1065 DCS1086 RS1/16S###J
<b>OTHERS</b> CN2101 FFC BOTTOM CONNECTOR CN2102 FFC CONNECTOR 30P V2101 FL INDICATOR TUBE 0 FL HOLDER	52492-2720 52492-3020 DEL1061 DNF1732
<b>G 1/4 CHFD1 ASSY</b> <b>RESISTORS</b> VR206	DCV1020
<b>OTHERS</b> CN2601 KR CONNECTOR	S4B-PH-K
<b>G 2/4 CHFD2 ASSY</b> <b>RESISTORS</b> VR205	DCV1020
<b>OTHERS</b> CN2602 KR CONNECTOR	S4B-PH-K-Y
<b>G 3/4 CHFD3 ASSY</b> <b>RESISTORS</b> VR203	DCV1020
<b>OTHERS</b> CN2603 KR CONNECTOR	S4B-PH-K
<b>G 4/4 CHFD4 ASSY</b> <b>RESISTORS</b> VR204	DCV1020
<b>OTHERS</b> CN2604 KR CONNECTOR	S4B-PH-K-Y
<b>H CRSFD ASSY</b> <b>RESISTORS</b> 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**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  
CKSRYB104K25C195, 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  
CKSRYB104K25C40-C49, C5, C50-C79  
C8, C80-C83  
C108  
C109  
C169-C173CKSRYB104K25  
CKSRYB104K25  
CKSRYB105K10  
CKSRYB332K50  
CKSRYB471K50

C104, C105, C110

CKSYB106K10

**RESISTORS**R186  
R64  
R70  
R69  
R65RS1/10S0R0J  
RS1/16S1502F  
RS1/16S2202F  
RS1/16S5603F  
RS1/16S7502FR254, R255  
R271, R365-R368  
Other ResistorsRS1/4SA681J  
RS1/8S0R0J  
RS1/16S###J**OTHERS**CN14 PH CONNECTOR 6P(SMT)  
X1 CRYSTAL RESONATOR  
CN8  
CN15, CN4 10P FFC CONNECTOR  
CN11, CN3 12P FFC CONNECTORAKM1292  
ASS7025  
DKN1449  
VKN1414  
VKN1416CN12 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**OUTPUT ASSY  
SEMICONDUCTORS**IC904  
IC918  
△IC1167-IC1169  
IC908, IC909  
IC905-IC907, IC911, IC912AK4393VF  
AK5381VT  
DEK1096  
NJM2114D  
NJM4580MDIC916, IC917  
IC913, IC914  
IC910, IC915  
IC901-IC903  
Q901, Q902NJM4580MD  
NJM5532DD  
PCM1742KE  
TC7SH08FUS1  
2SA1576AQ903, Q922, Q923  
Q906-Q921  
Q924  
Q904, Q9052SC2412K  
2SC3326  
DTA143EUA  
DTC124EUA**COILS AND FILTERS**

L1

ATH7011

L2

CTH1254

L3

DTL1123

L4

RTF1189

L5

CTF1346

L10, L6- L9  
F7, F9CTF1357  
VTF1093**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
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### 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
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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 WRAPP NG TERMINAL	VNF1084
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## 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
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### CAPACITORS

C1204, C1222, C1240, C1255	CCSRCH220J50
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**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 52044-0645  
CN1201 7P FFC CONNECTOR 52045-0745  
CN1203 12P FFC CONNECTOR 52045-1245  
CN1202 24P FFC CONNECTOR 52045-2445  
JA1201 DIN CONNECTOR 5P DKN1188

CN1205 31P FFC CONNECTOR DKN1451  
SHIELD CASE (MIDI) DNH2736  
KN1203 SCREW PLATE VNE1948  
KN1201 WRAPPING TERMINAL VNF1084  
KN1202 WRAPPING TERMINAL VNF1084

**L DIGIA ASSY****OTHERS**

CN1401 FFC BOTTOM CONNECTOR 7P 52492-0720  
JA1401, JA1402 2P PIN JACK DKB1079

**M DIGIB ASSY  
SEMICONDUCTORS**

IC1307 AD1895AYRS  
IC1308 AK4114VQ  
IC1303 TC74HCU04AF  
IC1312 TC7SET08FUS1  
IC1309-IC1311, IC1313 TC7SH08FUS1

**COILS AND FILTERS**

F1301-F1304 DTF1069  
L1304 PTL1003  
F1305, F1306 VTF1091

**CAPACITORS**

C1330, C1332, C1334, C1347 CEAT100M50  
C1314 CEAT101M16  
C1318 CEAT470M16  
C1311, C1312 CKSRYB103K50

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

C1313, C1329, C1331, C1333, C1335 CKSRYB104K25

C1340, C1342, C1344-C1346, C1348 CKSRYB104K25  
C1350 CKSRYB104K25  
C1304 CKSRYB474K10

**RESISTORS**

R1301 RN1/16SE1802D  
Other Resistors RS1/16S###J

**OTHERS**

CN1301 24P FFC CONNECTOR 52045-2445  
CN1302 10P FF CONNECTOR DKN1454  
JA1303 1P JACK BOARD PKB1033  
KN1301 WRAPPING TERMINAL VNF1084  
KN1302 WRAPPING TERMINAL 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 DEK1086  
⚠ IC2504 DEK1094  
IC2503 NJM2068M  
IC2502 NJM4558MD  
IC2501 PCM1742KE

IC2507 TA78L12F  
Q2503, Q2504 2SB1238X  
Q2509 2SC2412K  
Q2505, Q2507 2SD1859X  
D2501-D2504, D2506-D2512 1SS355

D2513 UDZS3R3(B)

**SWITCHES AND RELAYS**

RY2501 VSR1008

**CAPACITORS**

C2510, C2515 CCSRCH220J50  
C2540, C2541 CCSRCH471J50  
C2501, C2514 CCSRCH820J50  
C2519-C2522, C2526, C2534, C2535 CEAT100M50  
C2531, C2533, C2536, C2537 CEAT101M25

C2524, C2528, C2542 CEAT221M25  
C2518, C2523 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
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### CAPACITORS

C809, C810	CKSRYB104K25
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### 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
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### CAPACITORS

⚠ C1	ACG7030
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### 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. GENERAL INFORMATION

## 7.1 DIAGNOSIS

### 7.1.1 TEST MODE

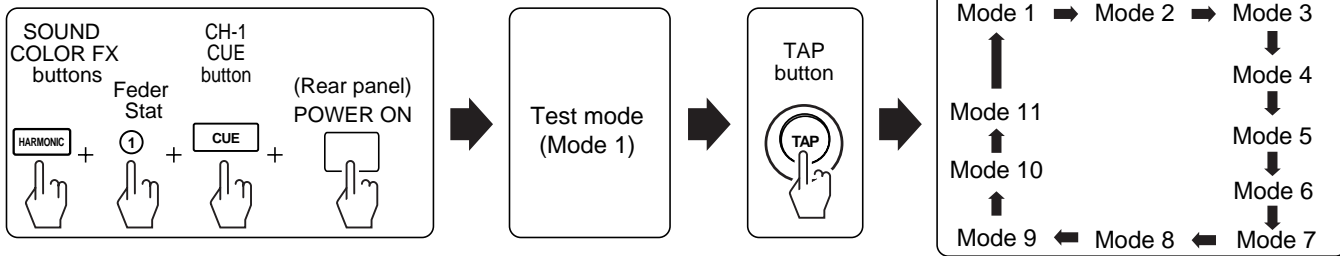
#### 1. Description of Test Modes

The following eight test modes are provided for this unit:

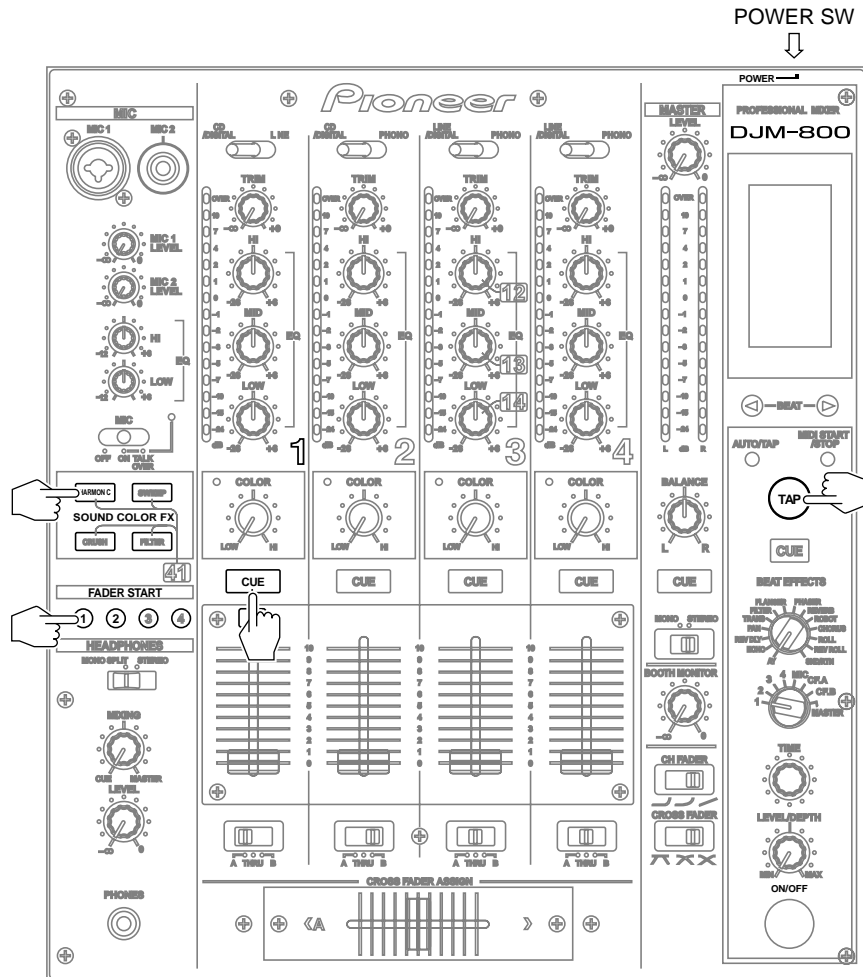
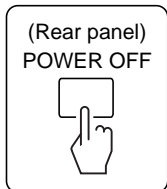
- ① **mode 1** : For confirmation of the software version
- ② **mode 2** : All LEDs and FL display "OFF" MODE. "ALL CLR"
- ③ **mode 3** : All LEDs and FL display "ON" MODE. "ALL SET"
- ④ **mode 4** : KEY operating TEST. (KEY TEST)
- ⑤ **mode 5** : SELECT SW Operating Test. (SW TEST)
- ⑥ **mode 6** : 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 : 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 Select SW CH1	: CD DIGITAL	-		
	: LINE	CH1 Level Meter LED	0dB	
CD/DIGITAL PHONO Select SW CH2	: CD DIGITAL	-		
	: PHONO	CH2 Level Meter LED	0dB	
LINE/DIGITAL PHONO Select SW CH3	: CD DIGITAL	-		
	: PHONO	CH3 Level Meter LED	0dB	
LINE/DIGITAL PHONO Select SW CH4	: CD DIGITAL	-		
	: 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 "

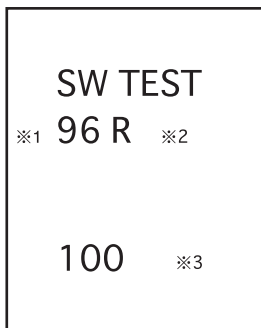
• The status is displayed on the FL Display about the following.

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	<ul style="list-style-type: none"> <li>• Default "0"</li> <li>• Upper limit "100"</li> <li>• Lower limit "-100"</li> </ul>

B

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

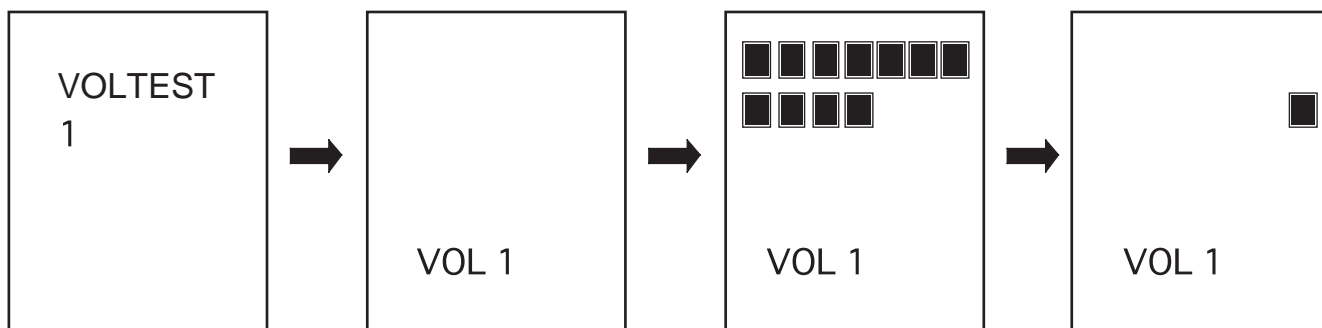
Volume	Lighting LED	Remark
MIC HI	Master Level Meter L CH LED	"-12" : Lights off "+6" : Full Illuminate
CH1 HI	CH1 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH2 HI	CH2 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH3 HI	CH3 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate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

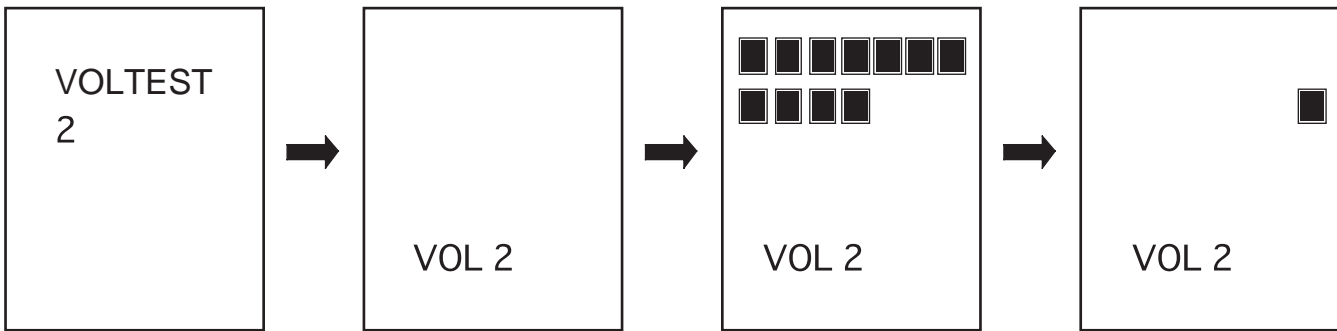
• This mode displays a value of CH 2 TRIM volume in the FL Display.

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

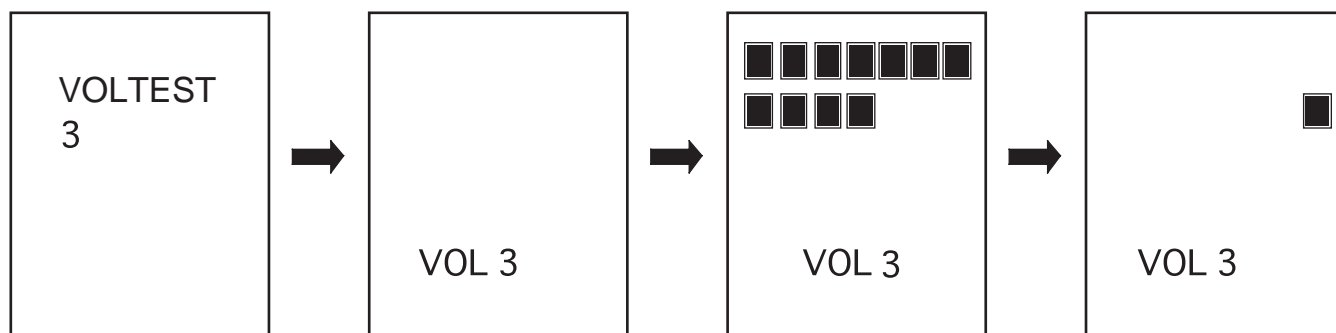
Volume	Lighting LED	Remark
H.P. MIXING	Master Level Meter L CH LED	"CUE" : Lights off "MASTER" : Full Illuminate
CH1 LOW	CH1 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH2 LOW	CH2 Level Meter LED	"-26" : Lights off "+6" : Full Illuminate
CH3 LOW	CH3 Level Meter LED	"-26" : Lights off "+6"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



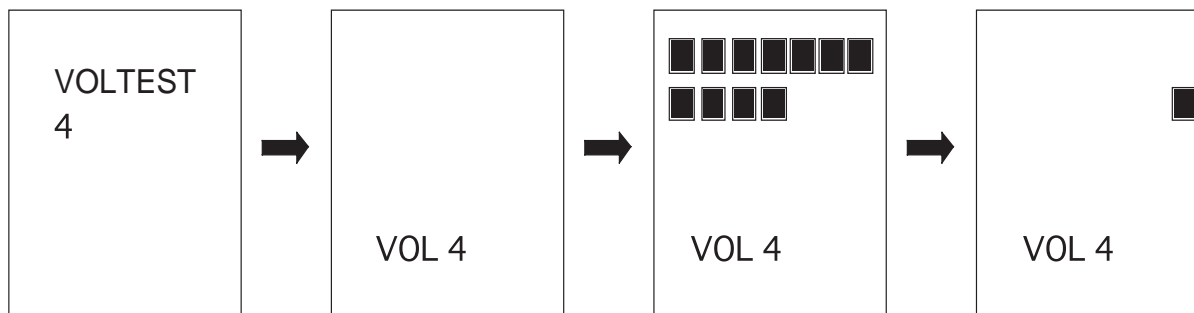
### ⑨ Mode 9 : Volume Test 4. " VOLTEST "

- 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.

It displays "VOLTEST4" on the FL display in the first 2 seconds.  
Then it displays "VOL 4" on the bottom of ths 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

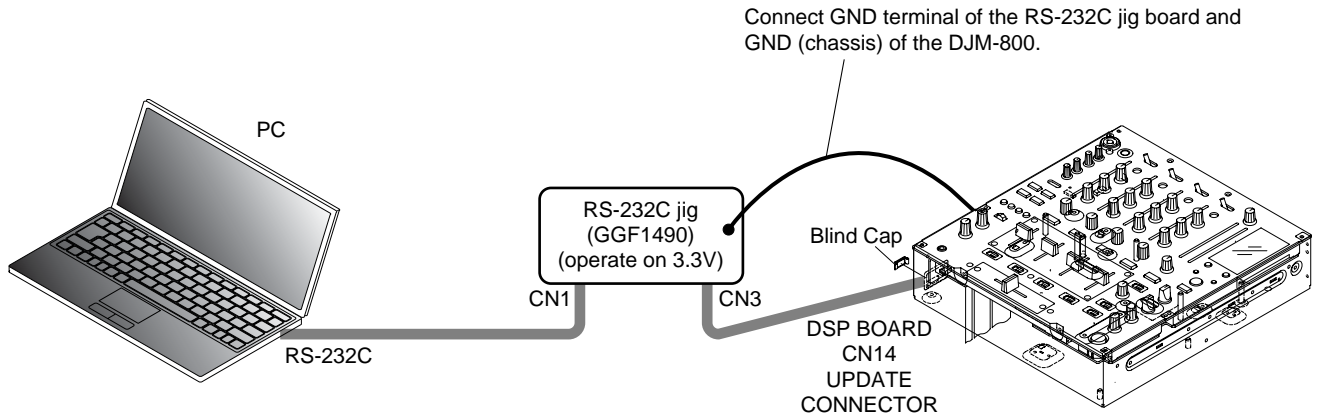
### Items required

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

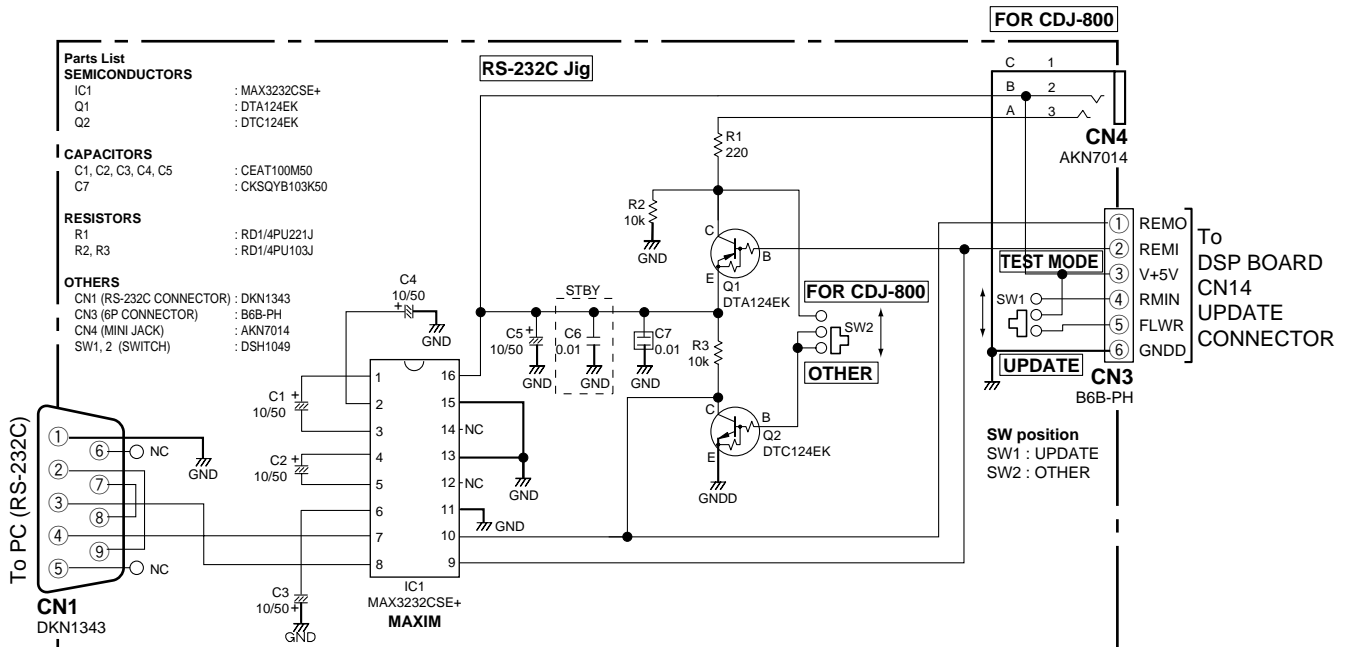
### About these softwares (Flash Development Tool kit and Program Flash Files)

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

### Connections



### RS-232C jig (GGF1490) Schematic diagram



## DJM-800

### Order of updating

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.)

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



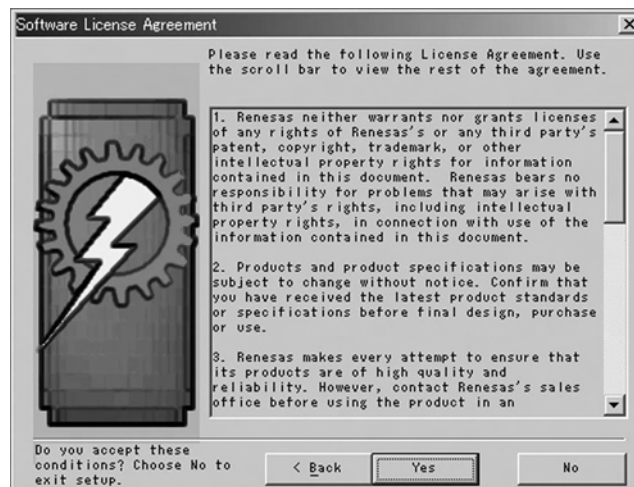
Double-click on the fdt3\_3.exe file icon. The window shown below will open.  
Click on Next.



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.

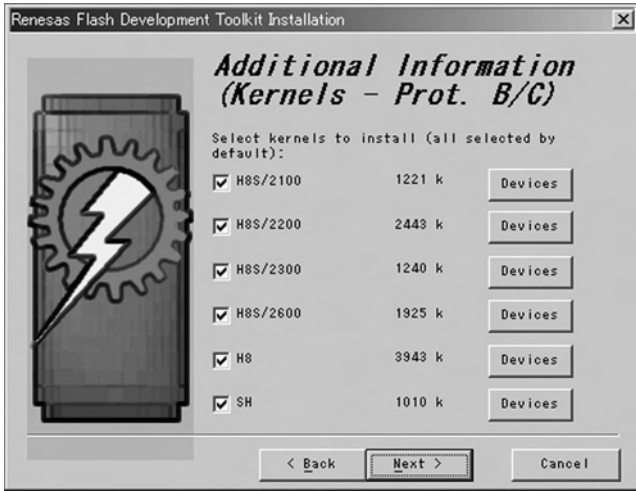


Leave the check boxes as they are and click on Next.



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

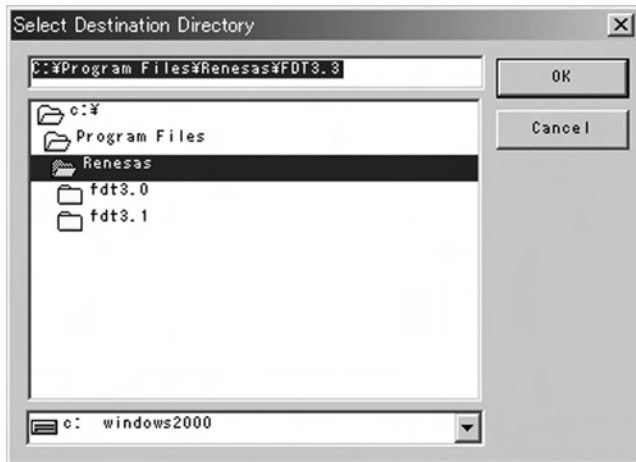


### 1.2 Changing the location for installation

Click on Browse...

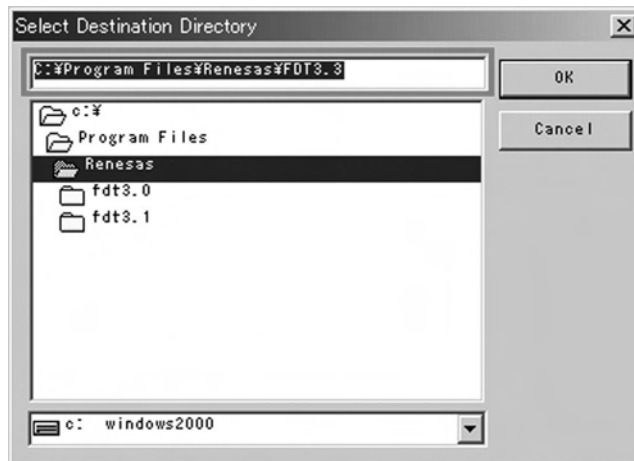


The window shown below will open.



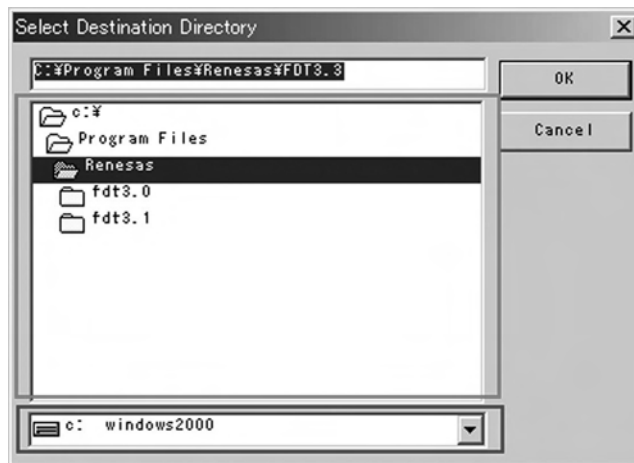
### Method ①

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



### 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.

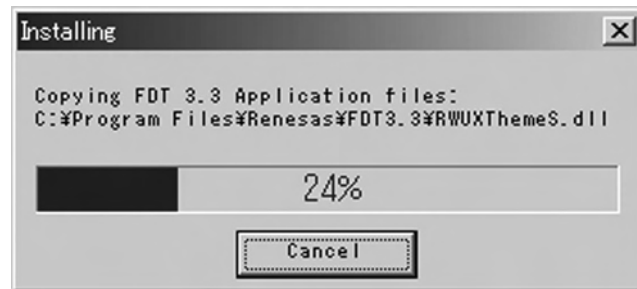
Normally, leave the location setting as it is and click on Next.



Click on Install. Installation starts.

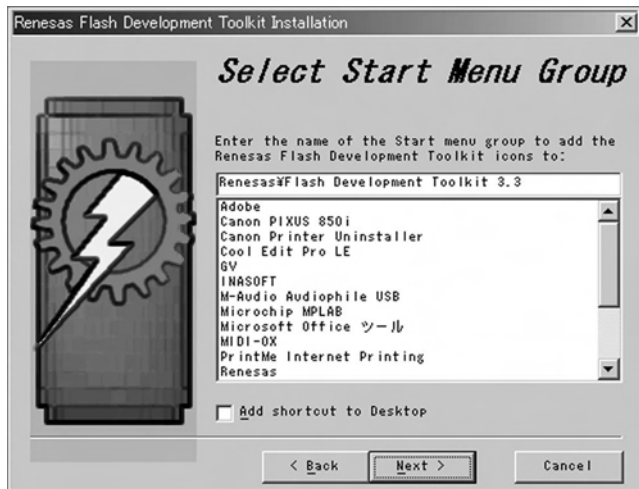


During installation, the display shown below indicates the progress of installation.



### 1.4 You can register the program on the Start menu.

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

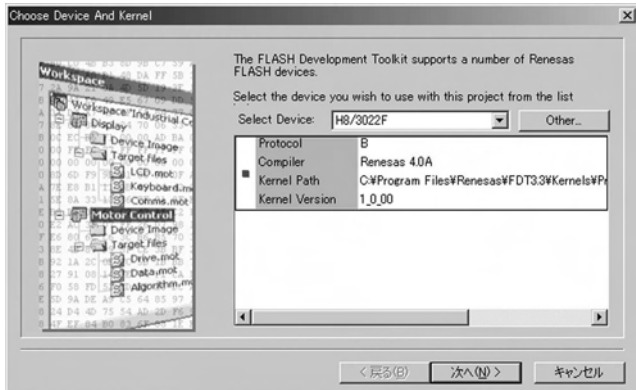


When installation is completed, the message shown below will be displayed. Click on Finish. Installation is completed.



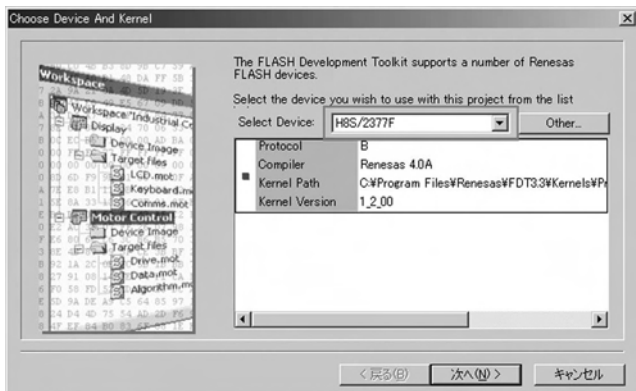
### 2. Initial settings

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.



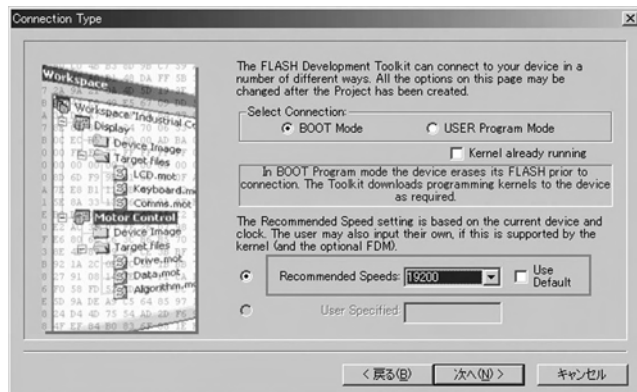
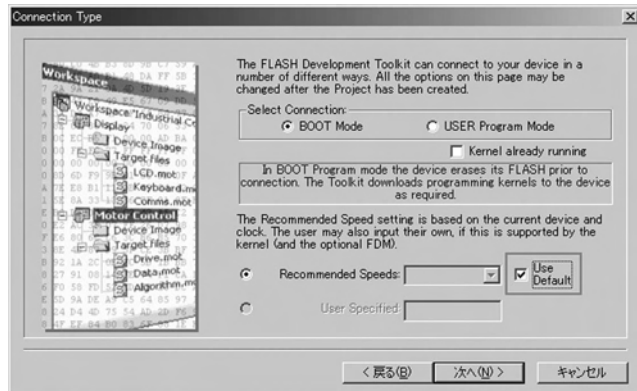
### 2.3 Device setting

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

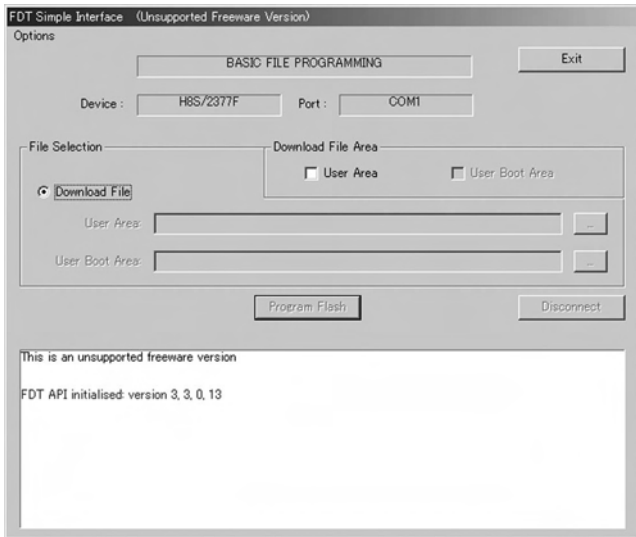
Click on Finish to register the initial settings.

A



B

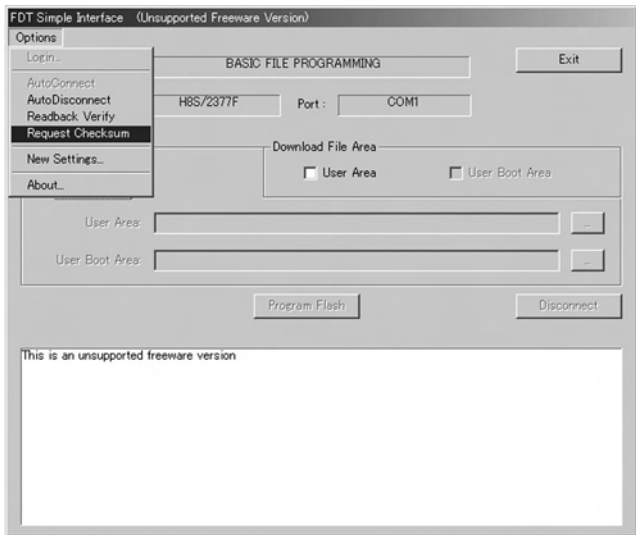
The program starts.



C

D

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



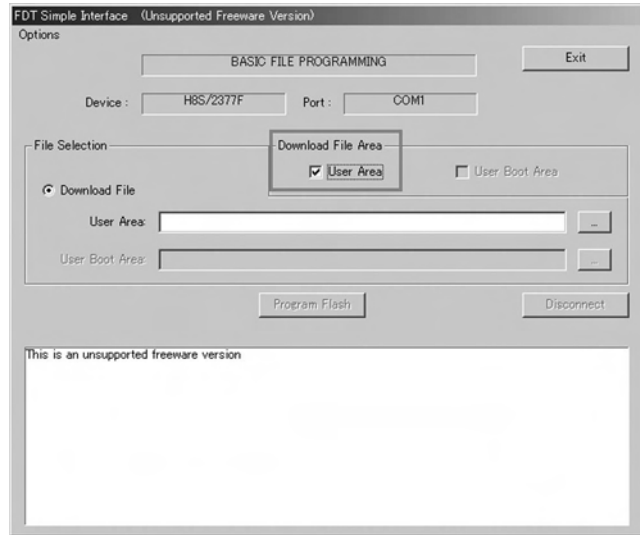
E

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

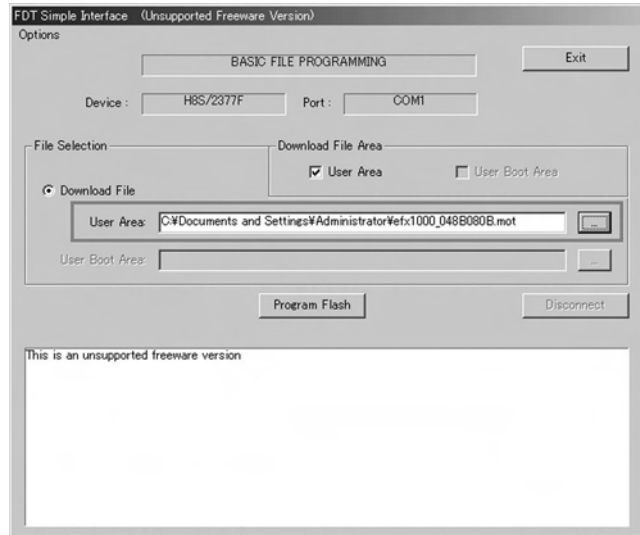
F

### 3. How to use

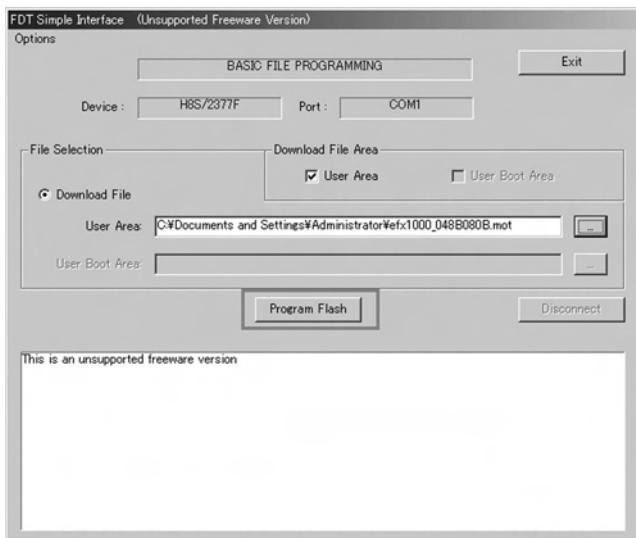
Click on the User Area check box in Download File Area to place a check mark in the check box.



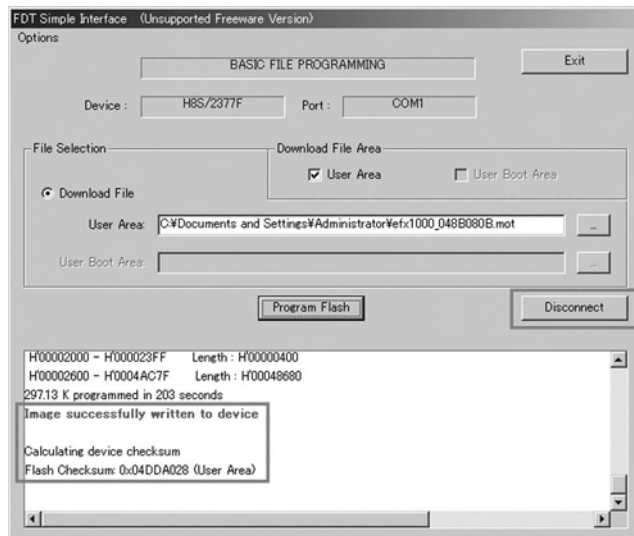
Designate the file in the User Area: box in File Selection.



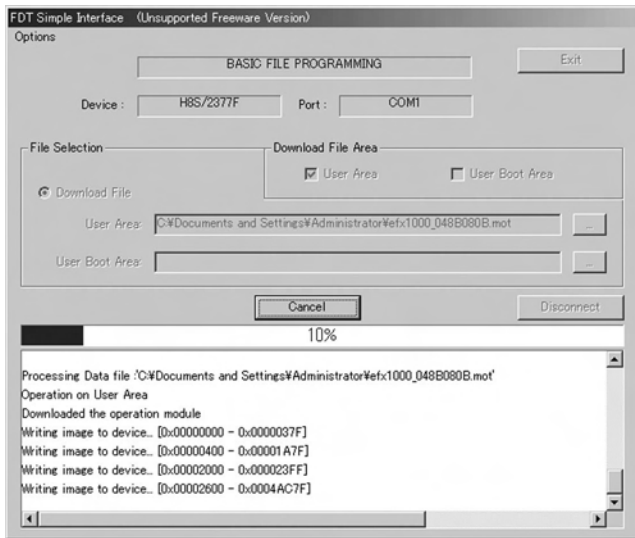
Click on Program Flash.



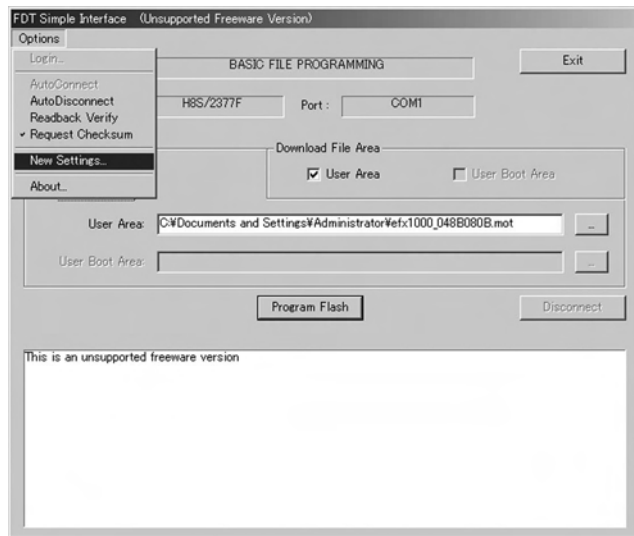
When downloading is finished, click on Disconnect. After confirming that "Disconnected" is displayed in the window, turn off the DJM-800(efx1000).



Downloading will start.



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

A

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

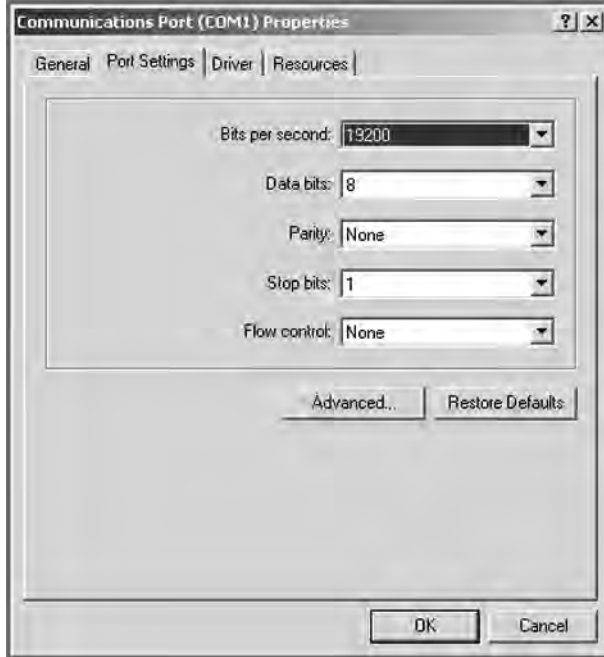
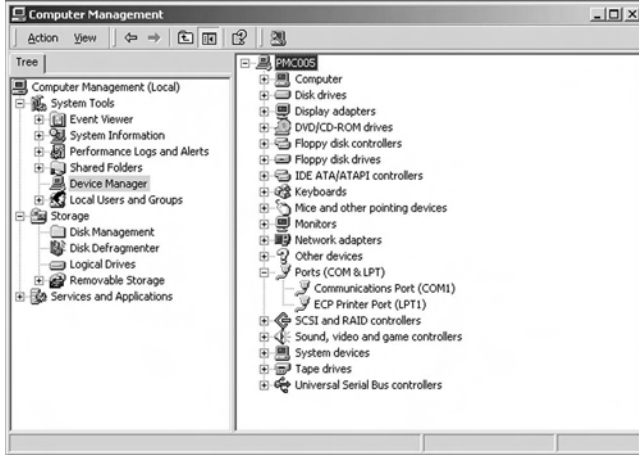
**Note:** After the above connection is made, when the DJM-800 is turned on, it will enter Writing mode. In Writing mode, all the LEDs remain unlit. However, when the DJM-800(efx1000) is turned on or off, it clicks.

• **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.

B



C

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

Example: COM1

Double-click on the port name to be used.



D

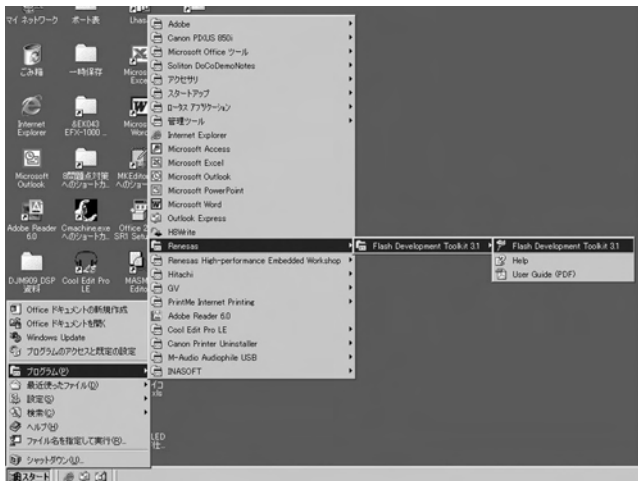
Click on OK. The setting is completed.

E

F

### 1. Starting the program

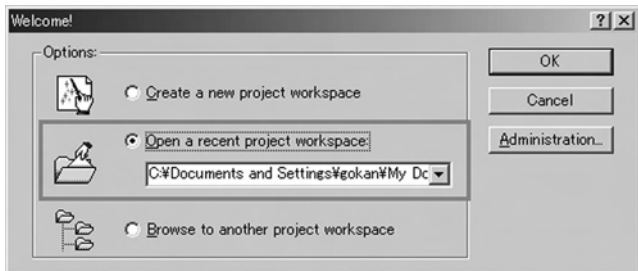
Click on Start, and select Program, Renesas, Flash Development Tool Kit 3.1, then Flash Development Tool Kit 3.1.



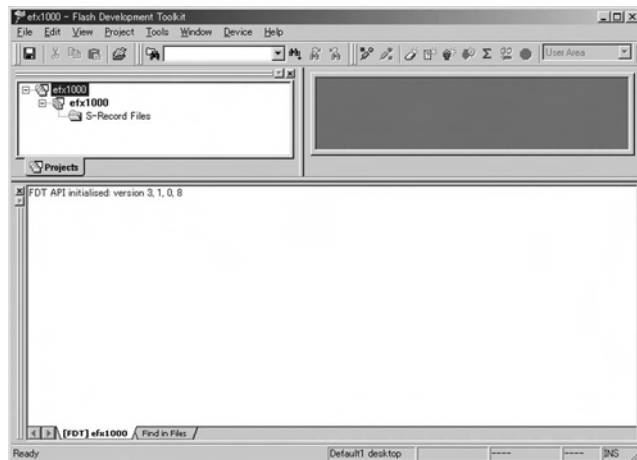
When the program starts, the following message will be displayed. Click on OK.



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



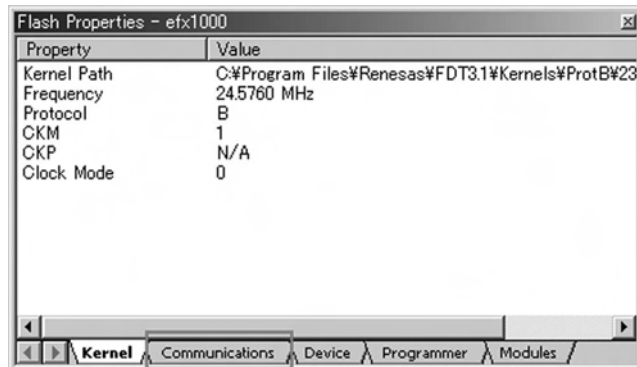
The workspace will open.



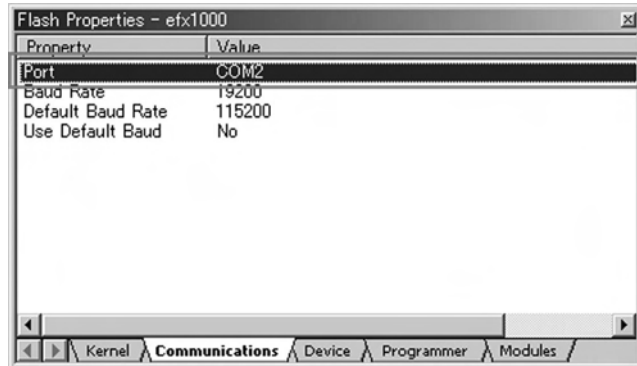
To change the port where the RS-232C jig is to be connected, modify the setting in the following way (if the port does not need to be changed, skip to "2. Selecting the .mot file to be downloaded into the DJM-800(efx1000)": Click on the Configure Flash Project icon.



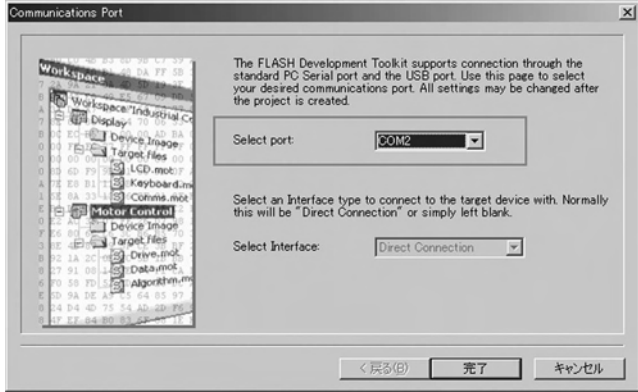
The Flash Properties window will be displayed.



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



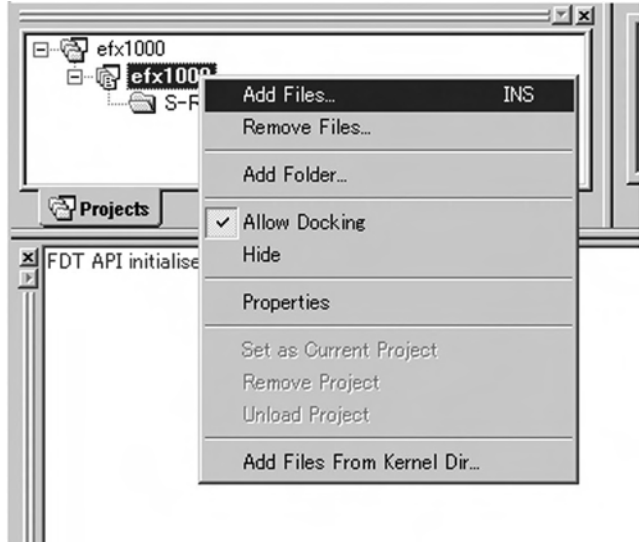
A The window shown below will open. Designate the port then click on Finish. The Communications Port window will then close.



B

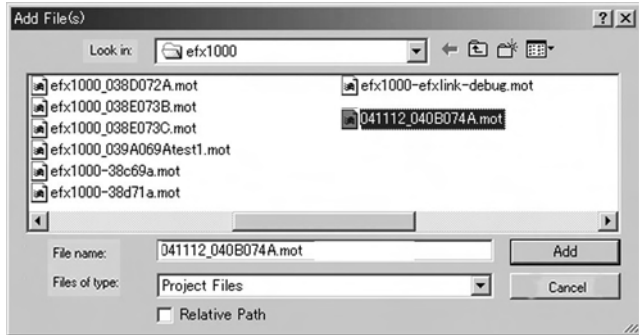
**2. Selecting the .mot file to be downloaded into the DJM-800(efx1000)**

Right-click on the project name and select Add Files....



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

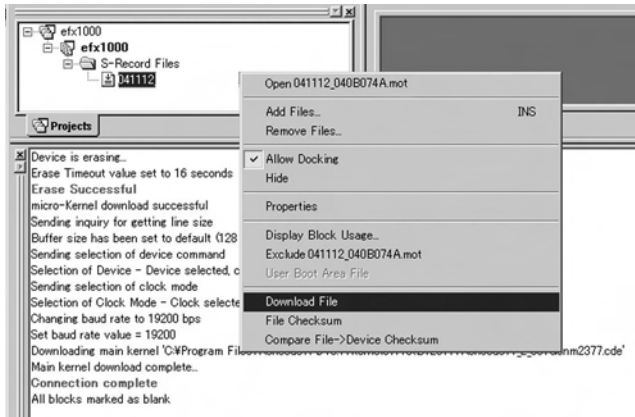
Turn on the DJM-800(efx1000). Click on the Connect icon to activate connection of the DJM-800(efx1000) with the PC.



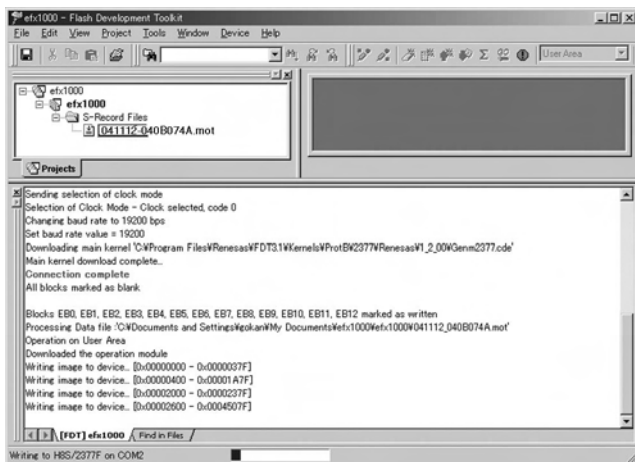
If the display shown below appears, the connection has been successfully made.



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



Downloading will start.

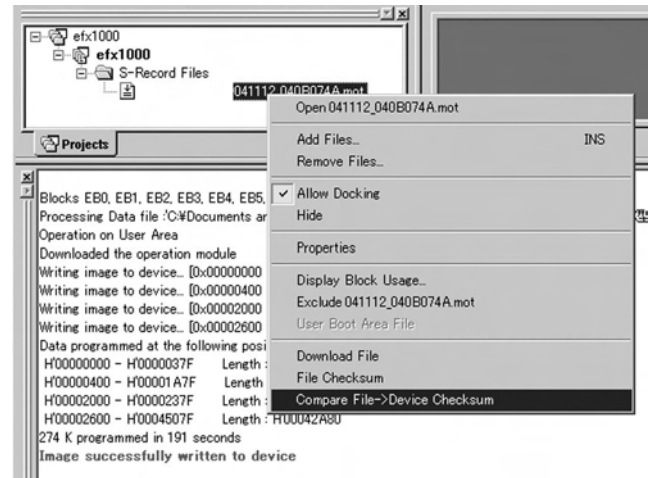


When the message "Image successfully written to device" is displayed, downloading has been finished.



### • 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, the downloading has been successfully completed.



### 4. Exiting from the program

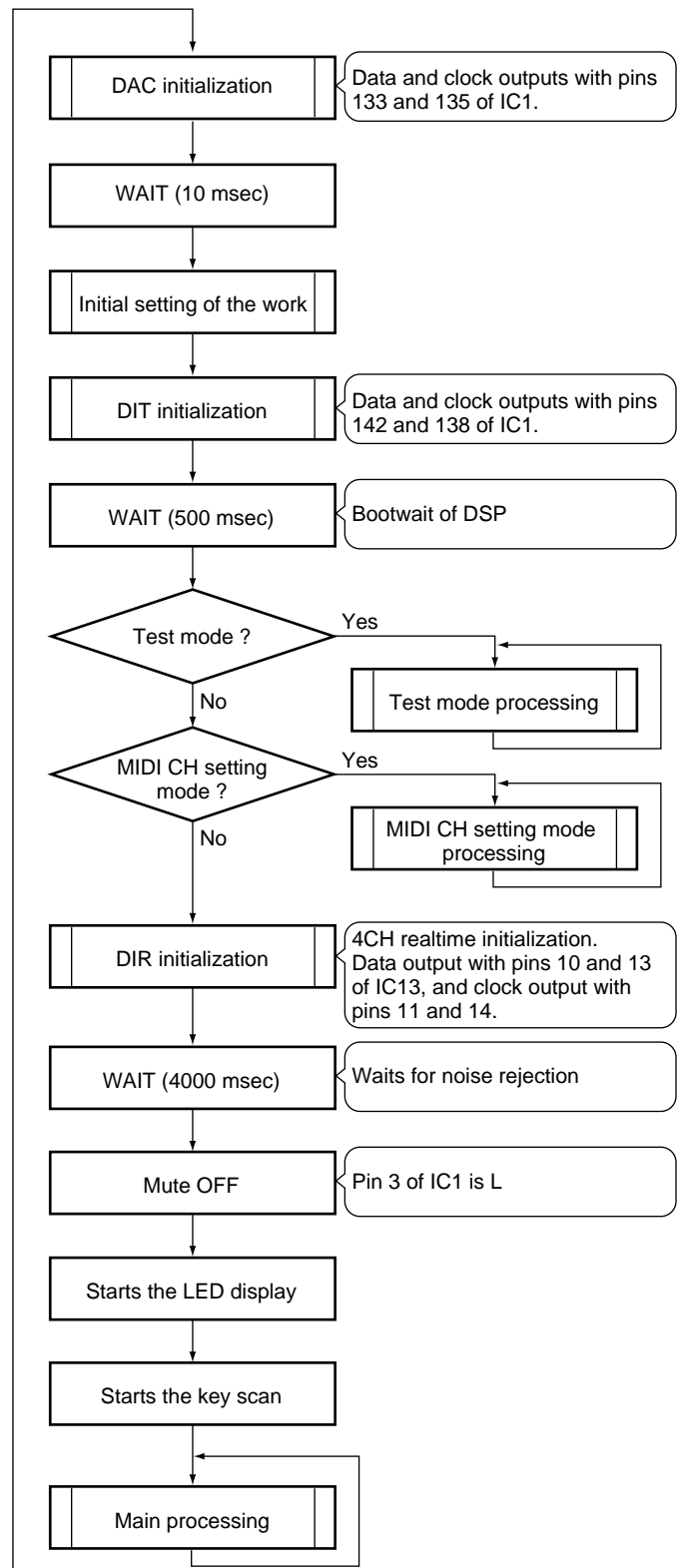
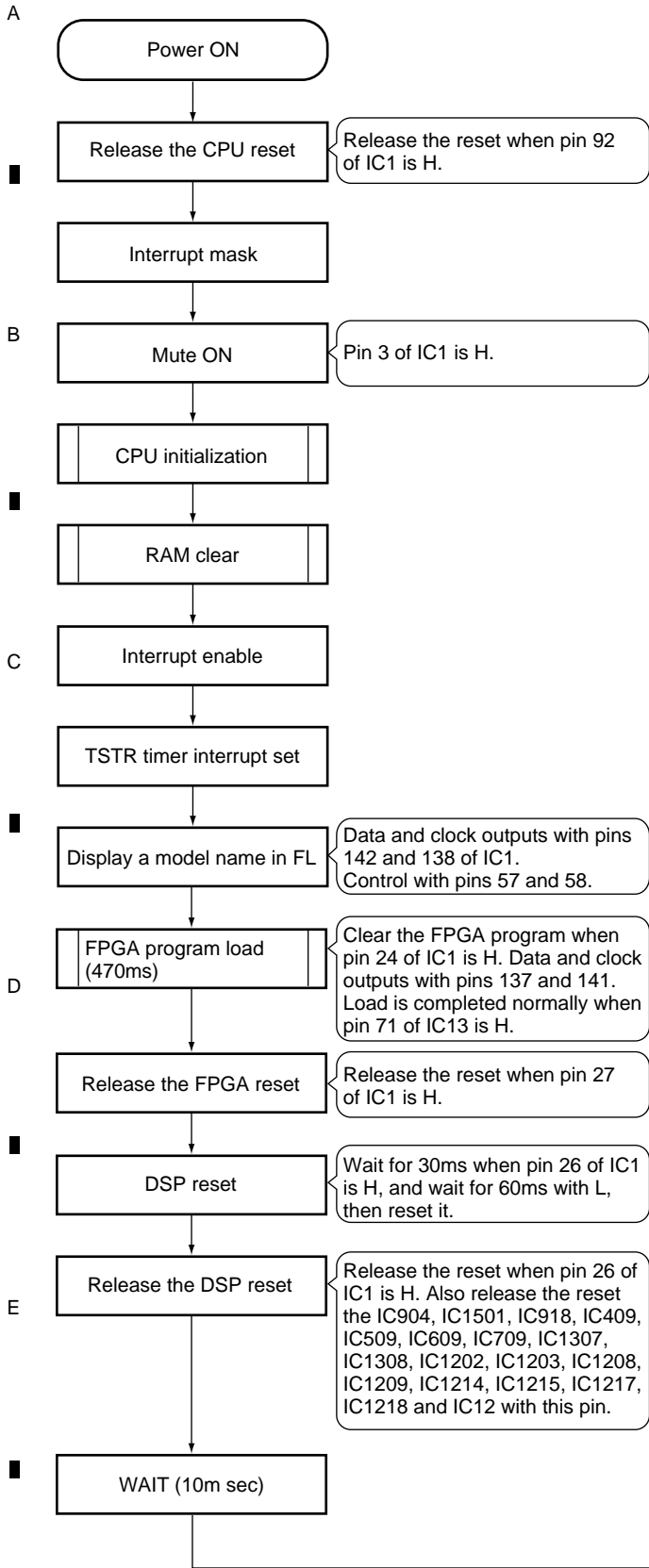
Click on the Disconnect icon to deactivate connection of the DJM-800(efx1000) with the PC.



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

# 7.2 POWER ON SEQUENCE

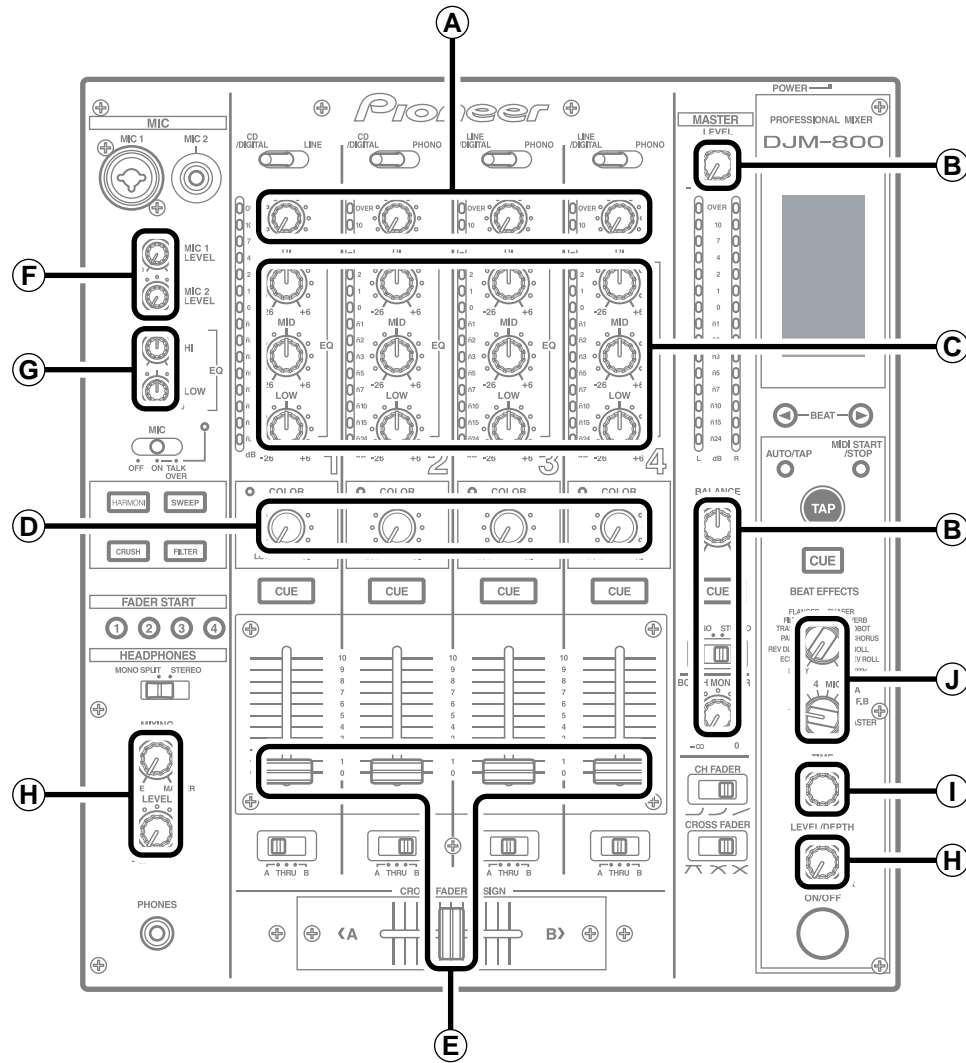
## ● Power ON Sequence



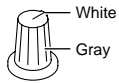
## 7.3 DISASSEMBLY

**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.

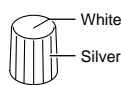
### Knobs and Volumes Location



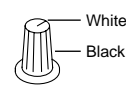
**A** Rotary SW knob S (C)  
(DAA1204) ×4



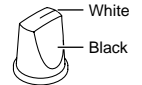
**D** Rotary SW knob (HM)  
(DAA1197) ×4



**G** Rotary SW knob S (A)  
(DAA1177) ×2



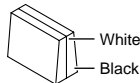
**J** Select knob  
(DAA1179) ×2



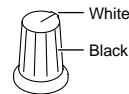
**B** Rotary SW knob (MA)  
(DAA1198) ×3



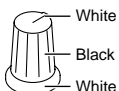
**E** Slider knob (L2)  
(DAC2371) ×5



**H** Rotary SW knob (A)  
(DAA1175) ×3



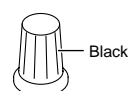
**C** Rotary SW knob (B)  
(DAA1176) ×12



**F** Rotary SW knob S (B)  
(DAA1178) ×2



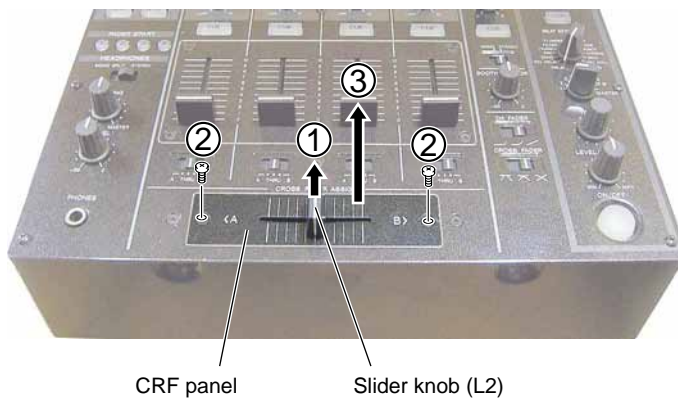
**I** Rotary SW knob (C)  
(DAA1180) ×1



# Disassembly

## 1 Cross Fader Section

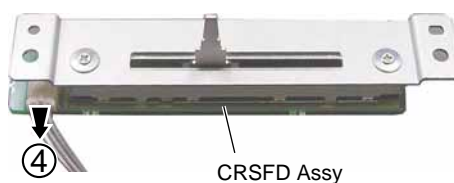
- ① Remove the slider knob (L2).
- ② Remove the two screws.
- ③ Remove the CRSFD Assy with CRF panel.



CRF panel      Slider knob (L2)

- ④ Disconnect the connector.

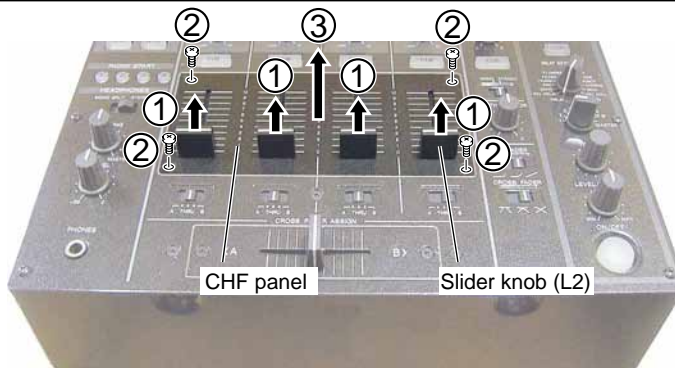
**Exchange**



CRSFD Assy

## 2 CH Fader Section

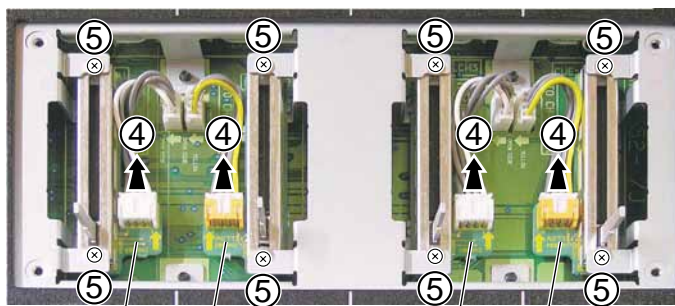
- ① Remove the four slider knob (L2)s.
- ② Remove the four screws.
- ③ Remove the CHF panel.



CHF panel      Slider knob (L2)

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

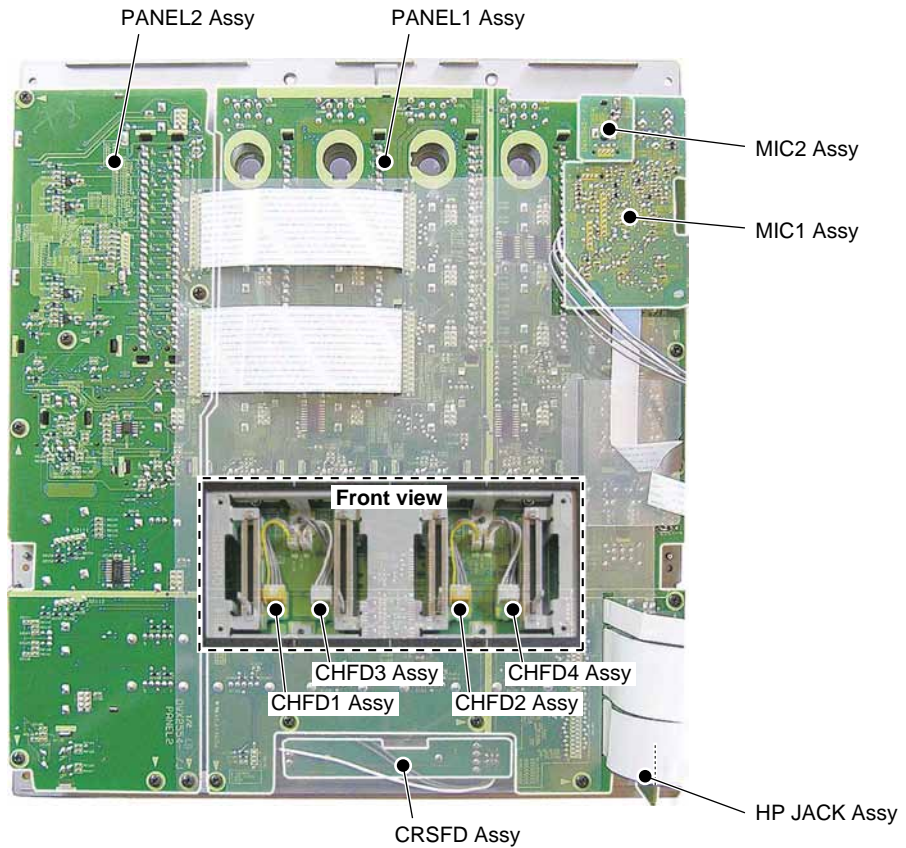
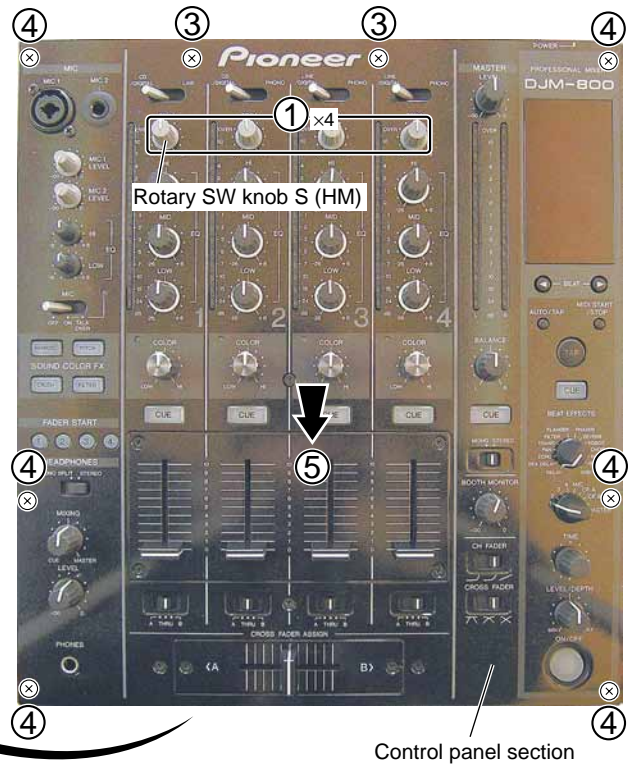
**Exchange**



CHFD1 Assy      CHFD2 Assy      CHFD3 Assy      CHFD4 Assy

### 3 Control Panel Section

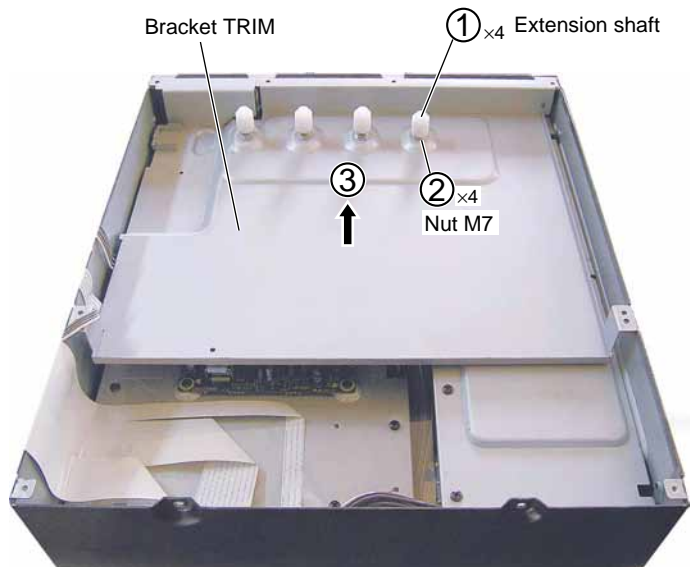
- ① Remove the four Rotary SW knob S (HM).
- ② Remove the two screws.
- ③ Remove the two screws.
- ④ Remove the six screws.
- ⑤ Remove the control panel section.



### 4 Bracket TRIM and Shield Case

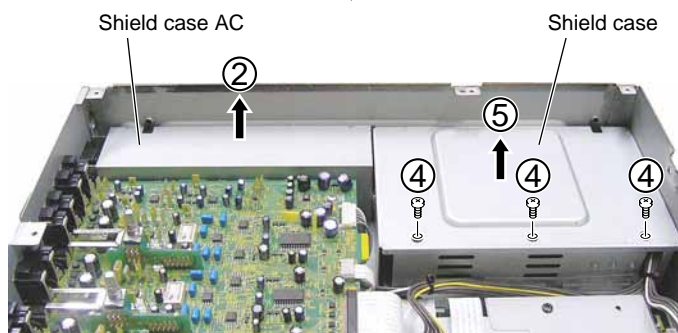
#### ● Bracket TRIM

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



#### ● Shield Case AC and Shield Case

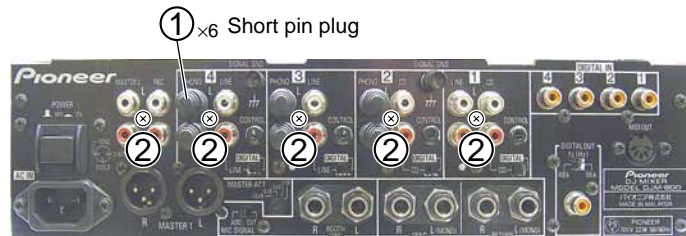
- ① Remove the three screws.
- ② Remove the shield case AC.
- ③ Remove the two screws.
- ④ Remove the three screws.
- ⑤ Remove the shield case.



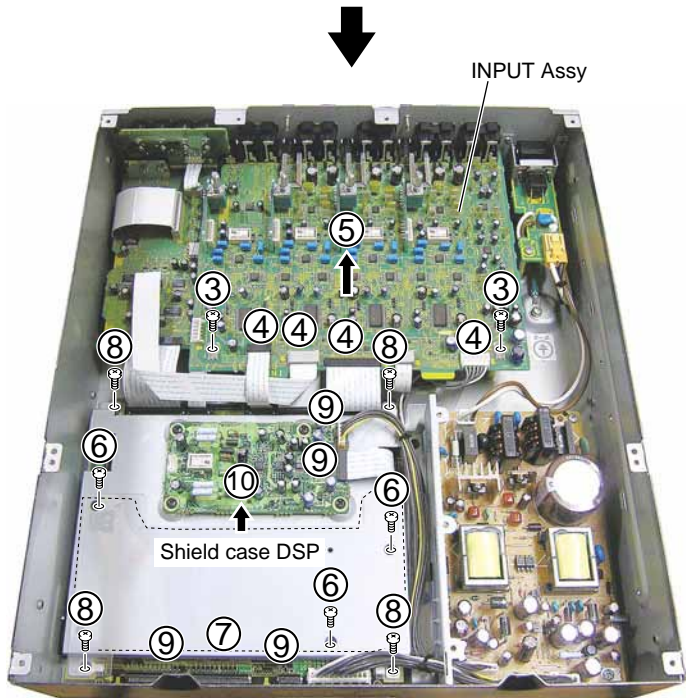
### 5 INPUT Assy and Shield Case DSP

#### ● INPUT Assy

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

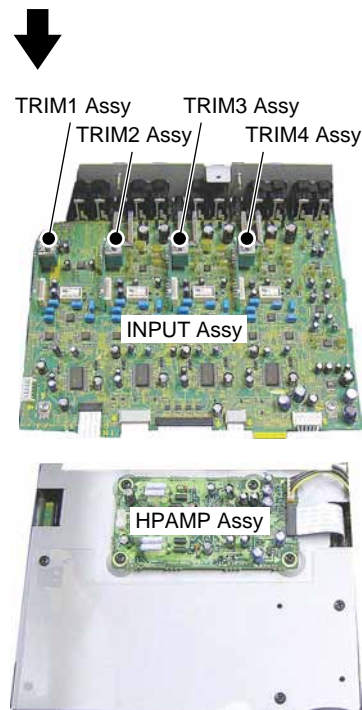
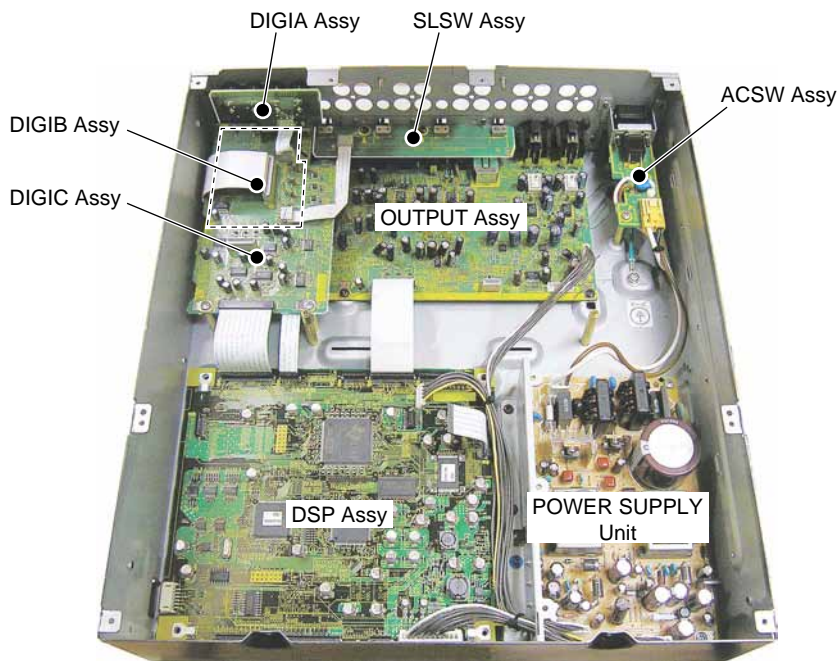


- ③ Remove the two screws.
- ④ Disconnect cables, as required.
- ⑤ Remove the INPUT Assy.



#### ● 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	WDTOVFn	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	
B	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	
C	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	
D	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	
E	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

## ■ D610A003BPYP225 (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	
B	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	
C	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	
D	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	
E	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.

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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	OSCOU	-	-	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

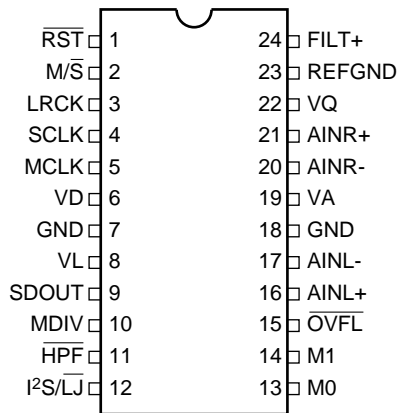
No.	Mark	Pin Name	I/O	Pin Function
P97	DSPD0	IO_L23P_2	I/O	Data bus 0 with DSP
P98	DSPD1	IO_L23N_2/VREF_2	I/O	Data bus 1 with DSP
P99	DSPD2	IO_L22P_2	I/O	Data bus 2 with DSP
P100	DSPD3	IO_L22N_2	I/O	Data bus 3 with DSP
P101	GND	GND	-	GND
P102	DSPD5	IO_L21P_2	I/O	Data bus 5 with DSP
P103	DSPD4	IO_L21N_2	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

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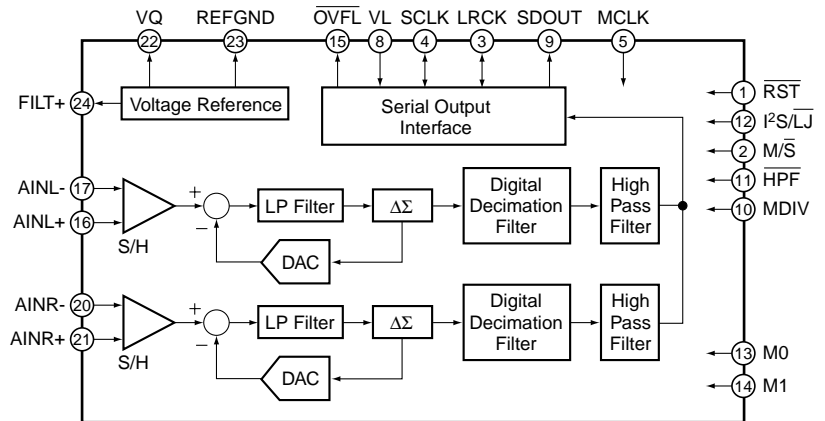
## CS5361 (INPUT ASSY : IC409, IC509, IC609, IC709)

• Audio A/D Converter

### ● Pin Arrangement (Top view)



### ● Block Diagram



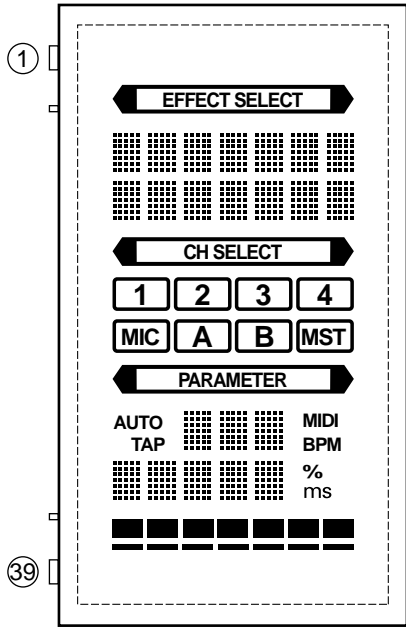
### ● Pin Function

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 <sup>2</sup> 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



## • Pin Connection

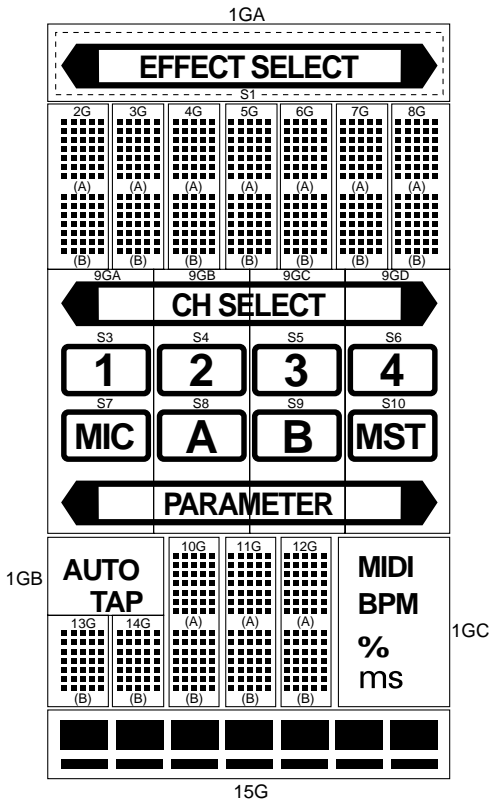
Pin No.	39	38	37	36	35	34	33	32	31	30
Connection	F-	NX	NX	NP	NP	LGND	PGND	VH	VDD	BK

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

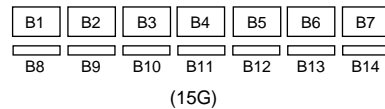
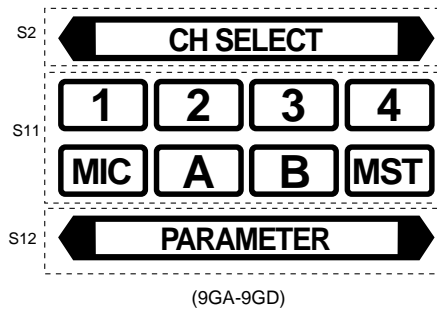
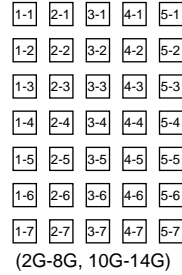
### NOTE:

- 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



## • Segment Designation



● 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

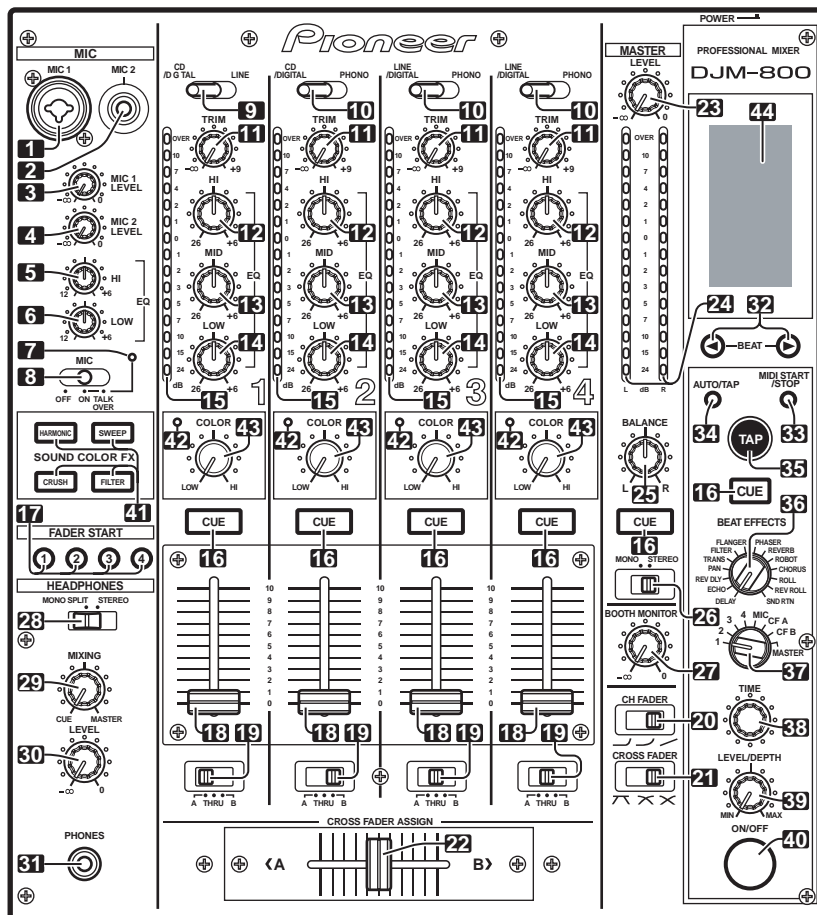
	1GA-C	2G-8G	9GA-D	10G-12G	13G, 14G	15G
P36	–	5-7A	–	5-7A	–	–
P37	–	4-7A	–	4-7A	–	–
P38	–	3-7A	–	3-7A	–	–
P39	–	2-7A	–	2-7A	–	–
P40	–	1-7A	–	1-7A	–	–
P41	–	5-6A	–	5-6A	–	–
P42	–	4-6A	–	4-6A	–	–
P43	–	3-6A	–	3-6A	–	–
P44	–	2-6A	–	2-6A	–	–
P45	–	1-6A	–	1-6A	–	–
P46	–	5-5A	–	5-5A	–	–
P47	–	4-5A	–	4-5A	–	–
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 turntableinput).

## 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 .

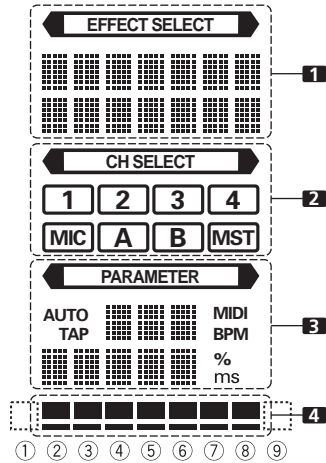
### 43. Sound-color effect parameter dial (COLOR)

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.

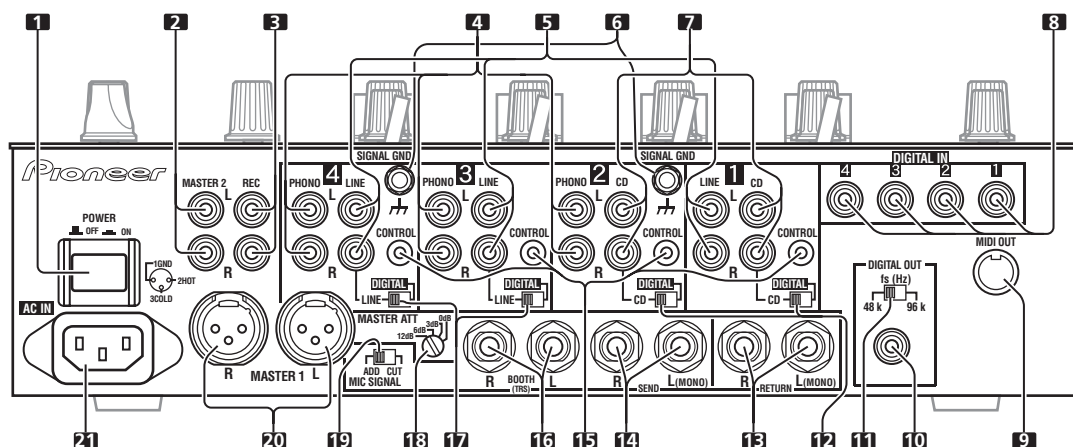
#### 4. Beat display section

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 Lower	DELAY	1	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1		
ECHO	Upper Lower	ECHO	1	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1		
REV DLY	Upper Lower	REVERSE DELAY	10	4 000	500	ms	1/8	1/4	1/2	3/4	1/1	2/1	4/1	8/1	16/1		
PAN	Upper Lower	PAN	10	16 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1		
TRANS	Upper Lower	TRANS	10	16 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1		
FILTER	Upper Lower	FILTER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1		
FLANGER	Upper Lower	FLANGER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1		
PHASER	Upper Lower	PHASER	10	32 000	2 000	ms	1/4	1/2	1/1	2/1	4/1	8/1	16/1	32/1	64/1		
REVERB	Upper Lower	REVERB	1	100	50	%	10	20	30	40	50	60	70	80	90		
ROBOT	Upper Lower	ROBOT	-100	100	0	%	—	-100	-66	-50	0	26	50	100	—		
CHORUS	Upper Lower	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		
ROLL	Upper Lower	ROLL	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1		
REV ROLL	Upper Lower	REVERSE ROLL	10	4 000	500	ms	1/16	1/8	1/4	1/2	1/1	2/1	4/1	8/1	16/1		
SND/RTN	Upper Lower	SEND/ 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.

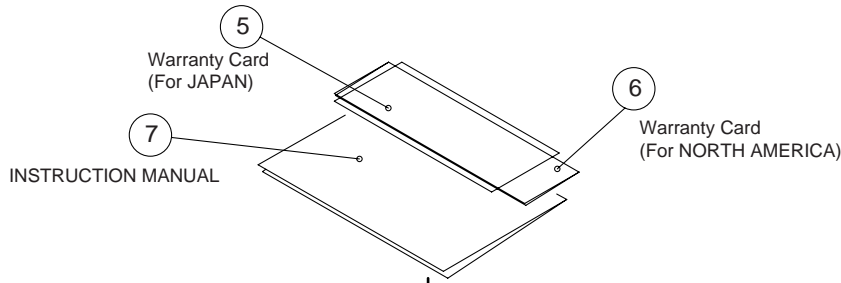
### 21. Power inlet (AC IN)

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

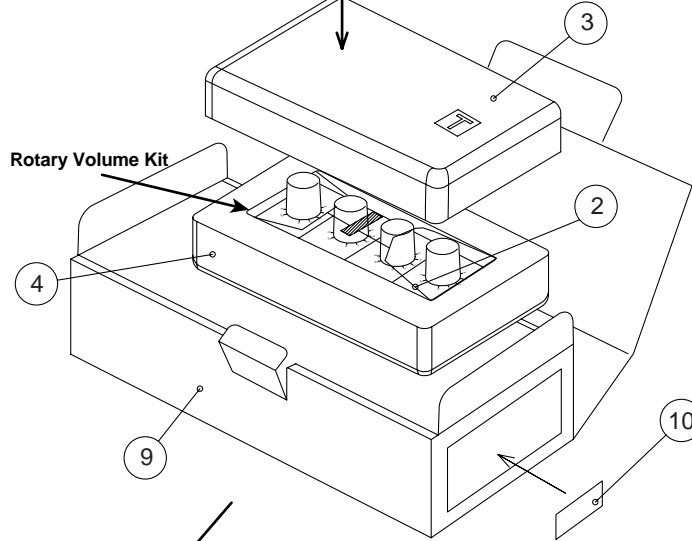
# 9. ROTARY VOLUME KIT (DJC-800RV)

## 9.1 PACKING SECTION

A

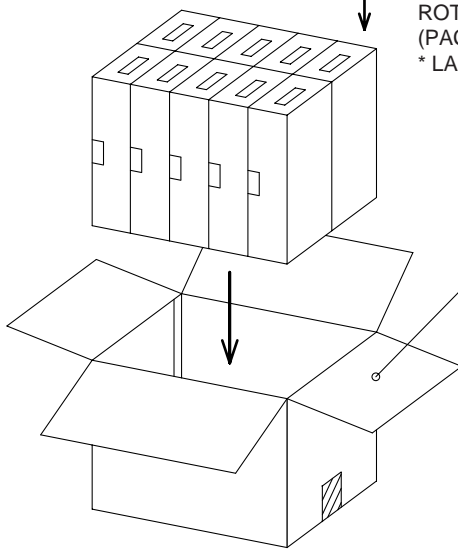


B



C

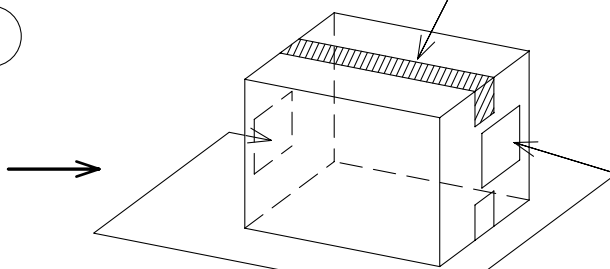
(PACKING CASE)



ROTALY VOLUME KIT  
(PACKING CASE)  
\* LABEL PUT UP

D

PACKAGING TAPE



STAMP UNDER  
DESTINATION PLACE SYMBOL

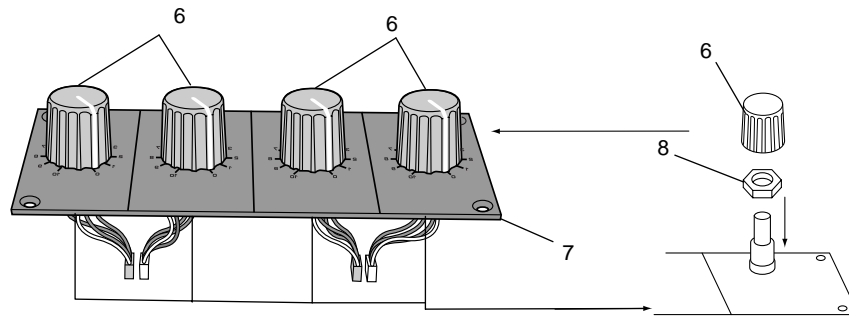
E

### • PACKING SECTION parts List

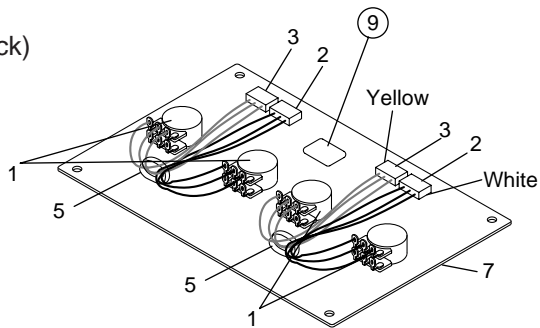
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	•••••		7	Instruction Manual	DRC1280
2	Mirror Mat (300*230)	DHL1155	8	•••••	
3	TOP Pad	DHA1708	9	Packing Case	DHG2615
4	BOTTOM Pad	DHA1709	NSP 10	Serial Label (UPC)	DRW2311
NSP 5	Warranty Card (Japan)	DRY1235	11	Master Carton	DHG2616
NSP 6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

# 9.3 SCHEMATIC DIAGRAM

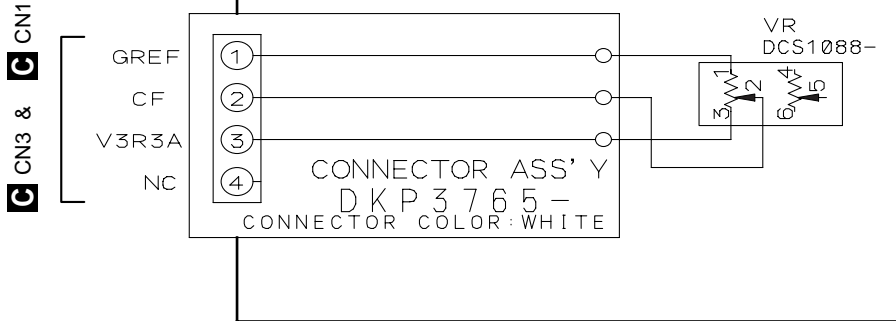
DJC-800RV/ZXJ/WL5

**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.

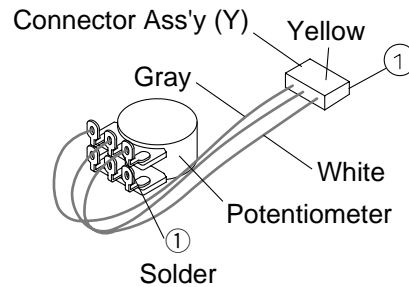
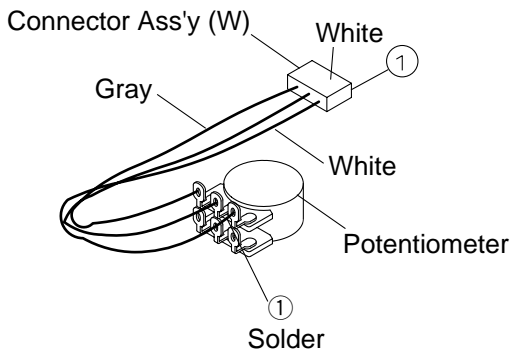
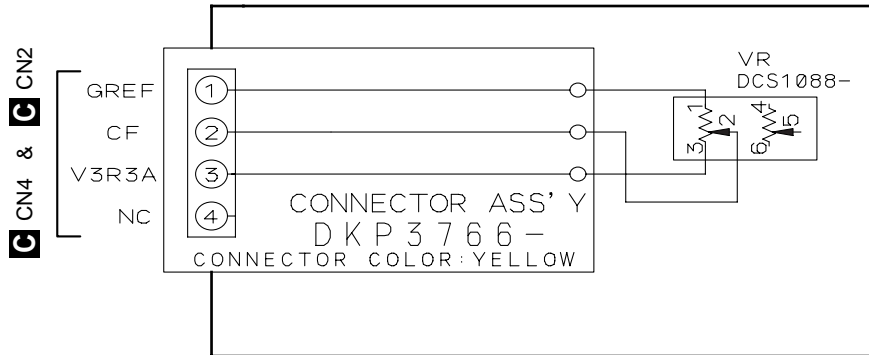
## CH1 / CH3 FADER

TO PANEL  
(CN1705)  
(CN1707)



## CH2 / CH4 FADER

TO PANEL  
(CN1706)  
(CN1708)



**⚠ 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).

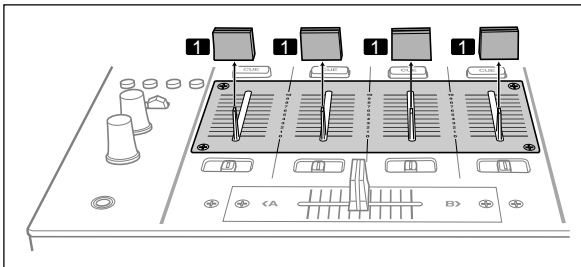
Attempting to install this kit by yourself can be very dangerous, and may result not only in damage to the unit, but fire or electrical shock. Pioneer can accept no liability for injuries or damages resulting from installations or modifications performed by the customer.

**To the Installing Service Personnel**

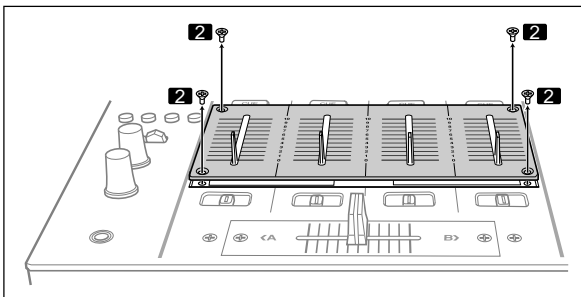
Install this panel unit as depicted in the accompanying illustrations and instructions.

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

**1. Pull off the 4 fader slider knobs.**

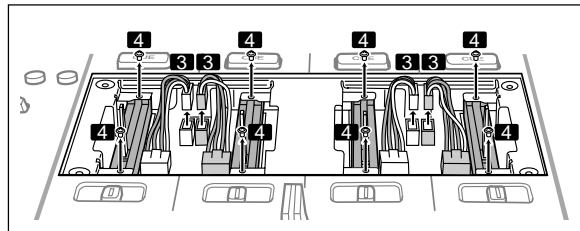


**2. Remove the 4 screws at the four corners of the fader panel, and remove the panel.**



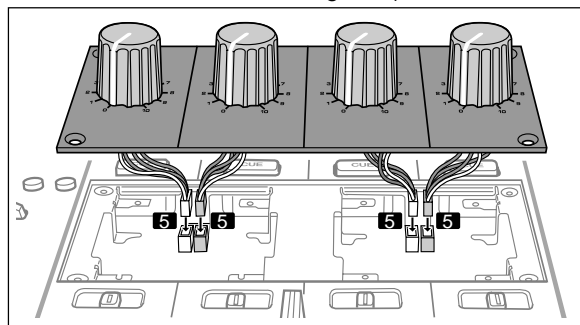
**3. Disconnect the 4 cable connectors.**

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



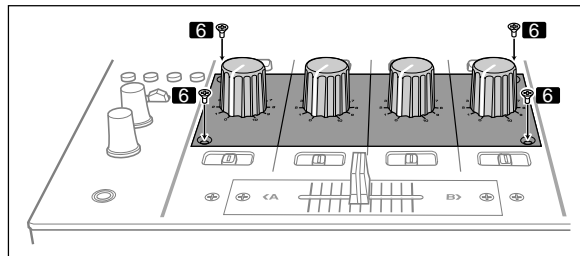
**5. Connect the 4 cable connectors for the fader units to be installed (total 4).**

- 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