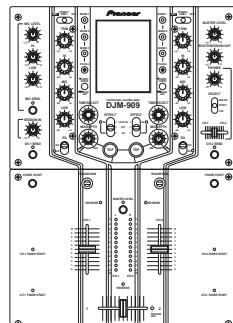


Service Manual



DJM-909

ORDER NO.
RRV2871

DJ MIXER

DJM-909

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

Model	Type	Power Requirement	Remarks
DJM-909	KUCXJ	AC120V	
DJM-909	WYXJ	AC220 - 240V	
DJM-909	TLTXJ	AC110 - 240V	



For details, refer to "Important symbols for good services".

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SAFETY INFORMATION



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

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

WARNING

This product 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

(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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

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

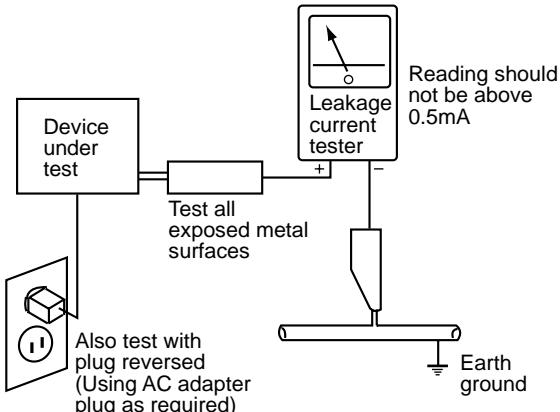
2. PRODUCT SAFETY NOTICE

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

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

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

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



AC Leakage Test

[Important symbols for good services]

In this manual, the symbols shown below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

Audio Section

Input terminal (input level/impedance)	
CD 1, 2	-14 dBV (200 mV) / 22 kΩ
LINE 1, 2	-14 dBV (200 mV) / 47 kΩ
PHONO 1, 2	-54 dBV (2 mV) / 47 kΩ
MIC	-54 dBV (2 mV) / 3 kΩ
SESSION IN	-14 dBV (200 mV) / 22 kΩ
RETURN	-14 dBV (200 mV) / 22 kΩ

Output terminal (output level/impedance)

MASTER OUT 1 (XLR)	0 dBV (1 V) / 600Ω
MASTER OUT 2 (RCA)	0 dBV (1 V) / 1 kΩ
BOOTH / SESSION OUT	0 dBV (1 V) / 1 kΩ
SEND	-14 dBV (200 mV) / 1 kΩ
PHONES	6 dBV (2 V) / 22 Ω or less (Rated load impedance 32 Ω)

Frequency characteristics

CD, LINE, MIC	20 Hz to 20 kHz
PHONO (RIAA)	20 Hz to 20 kHz

SN ratio

CD, LINE	93 dB or more (EFFECT OFF)
PHONO	78 dB or more
MIC	64 dB or more

Total harmonic distortion rate

CD, LINE	0.02% or less
Cross talk (1 kHz)	77 dB or more

Channel equalizer (CD, LINE/PHONO)

HI	+6 dB to -26 dB
MID	+6 dB to -26 dB
LOW	+6 dB to -26 dB

Microphone equalizer (MIC)

HI	+12 dB to -12 dB
LOW	+12 dB to -12 dB

[KUCXJ type]

Electrical Section, etc.

Power supply voltage	AC 120 V, 60 Hz
Power consumption	31 W
Operating temperature	+5 °C to +35 °C (41 °F to 95 °F)
Operating humidity	5% to 85%
External dimensions	251 (W) x 381.6 (D) x 107.9 (H) mm 9-7/8 (W) x 15 (D) x 4-1/4 (H) in
Weight	6.5 kg 14 lbs 5 oz

Accessories

- Hexagonal Allen driver 1
- These operating instructions 1
- Warranty 1

[WYXJ type]

Electrical Section, etc.

Power supply voltage	AC 220-240 V, 50/60 Hz
Power consumption	30 W
Operating temperature	+5°C to +35°C
Operating humidity	5% to 85%
External dimensions	251 (W) x 381.6 (D) x 107.9 (H) mm
Weight	6.5 kg

Accessories

- Hexagonal Allen driver 1
- These operating instructions 1

[TLTXJ type]

Electrical Section, etc.

Power supply voltage	AC 110-240 V, 50/60 Hz
Power consumption	30 W
Operating temperature	+5°C to +35°C
Operating humidity	5% to 85%
External dimensions	251 (W) x 381.6 (D) x 107.9 (H) mm
Weight	6.5 kg

Accessories

- Hexagonal Allen driver 1
- These operating instructions 1

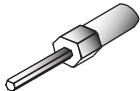
For improvement purposes, specifications and design may be subject to modification without notice.

Accessories

- Hexagonal Allen driver x1
(DEX1018)

- Operating instructions x1

- Warranty x1

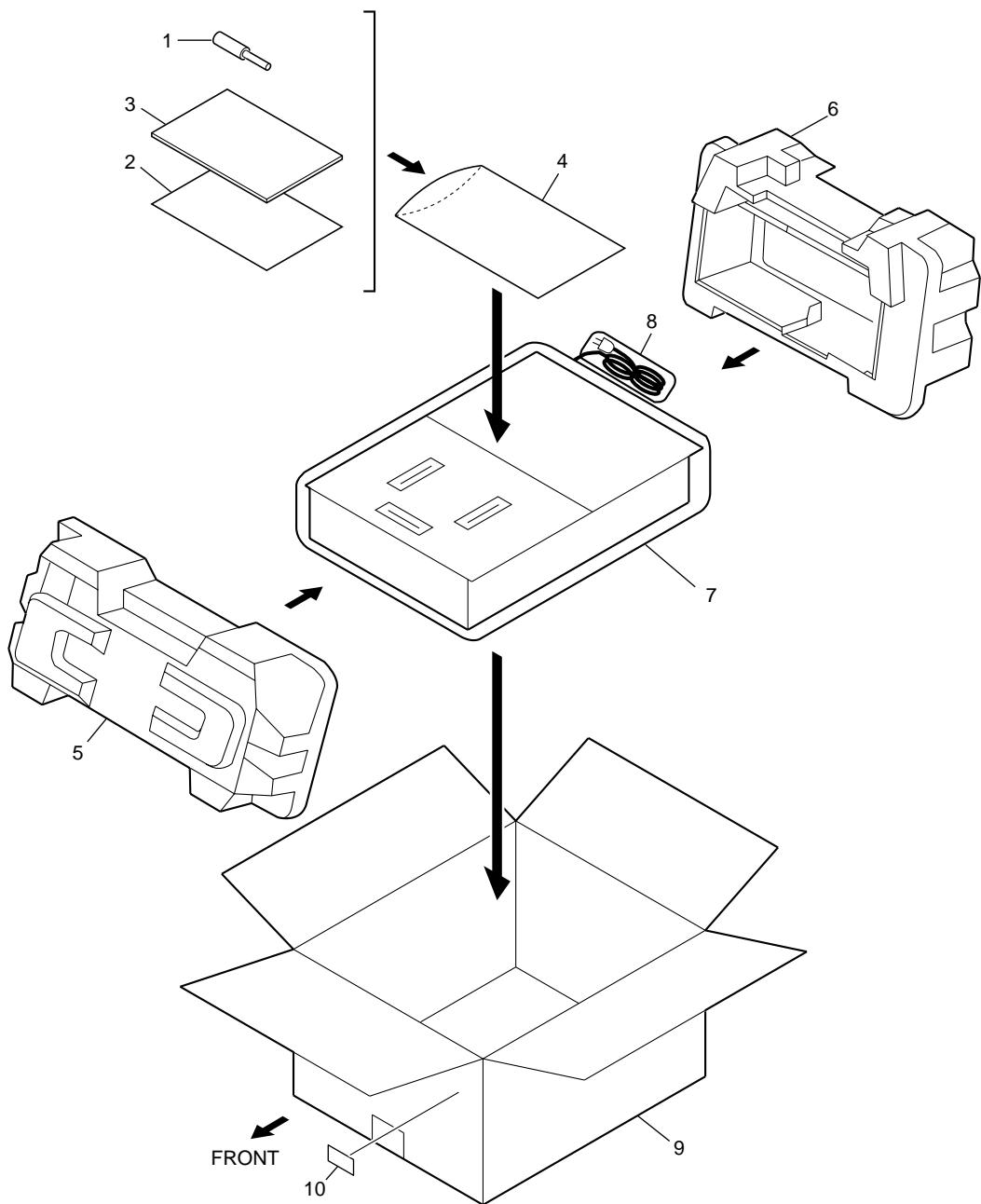


2. EXPLODED VIEWS AND PARTS LIST

A NOTES:

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

2.1 PACKING



PACKING 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	Hexagon Screwdriver	DEX1018	6	Pad (B)	DHA1587
NSP 2	Warranty Card	See Contrast table(2)	7	Sheet	RHX1006
3	Operating Instructions	See Contrast table(2)	8	Polyethylene Bag	VHL1051
4	Polyethylene Bag (0.03 x 230 x 340)	Z21-038	9	Packing Case	See Contrast table(2)
NSP 10				Label	VRW1629
5	Pad (A)	DHA1586			

(2) CONTRAST TABLE

DJM-909/ KUCXJ, DJM-909/ WYXJ and DJM-909/ TLTXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DJM-909 KUCXJ	DJM-909 WYXJ	DJM-909 TLTXJ
NSP	2	Warranty Card	ARY7043	Not used	Not used
	3	Operating Instructions (English)	DRB1349	Not used	Not used
	3	Operating Instructions (English/ French/ German/ Italian/ Dutch/ Spanish)	Not used	DRB1350	Not used
	3	Operating Instructions (English/ Spanish/ Chinese)	Not used	Not used	DRB1351
	9	Packing Case	DHG2441	DHG2440	DHG2442

A

B

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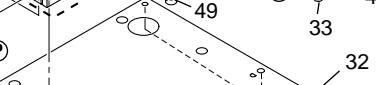
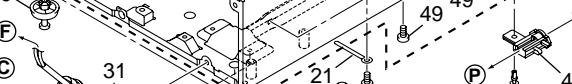
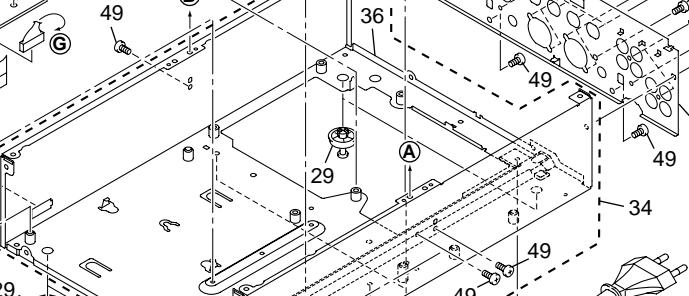
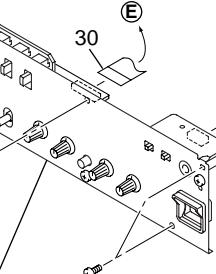
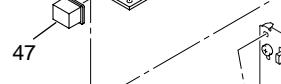
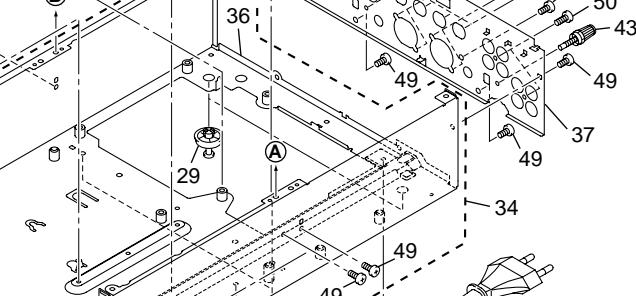
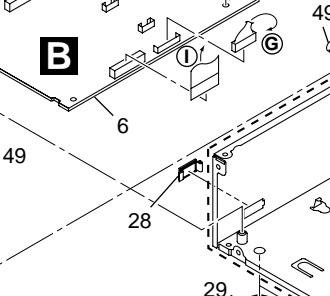
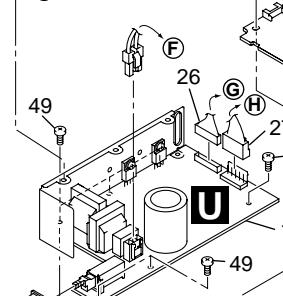
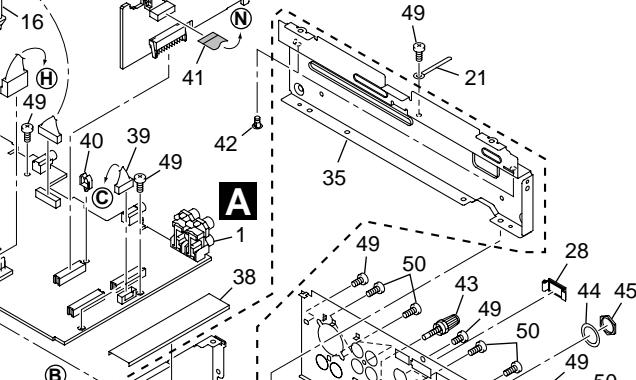
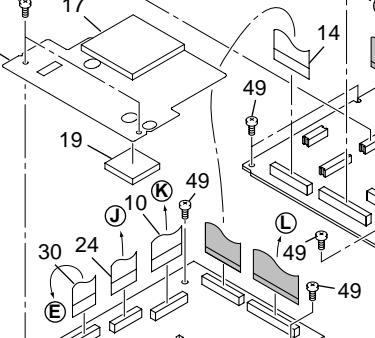
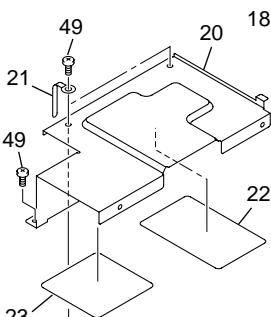
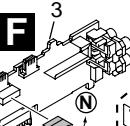
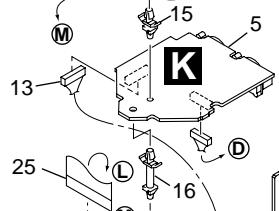
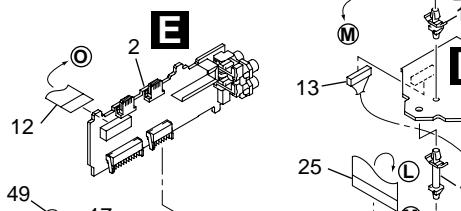
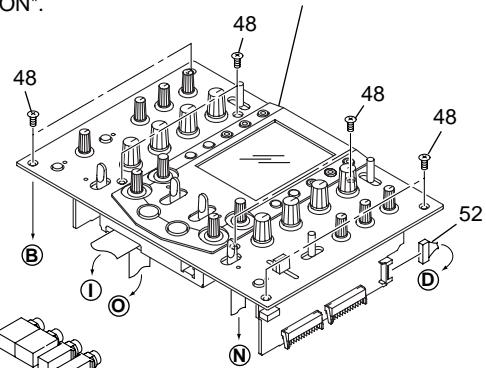
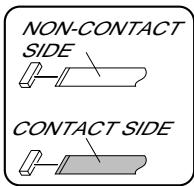
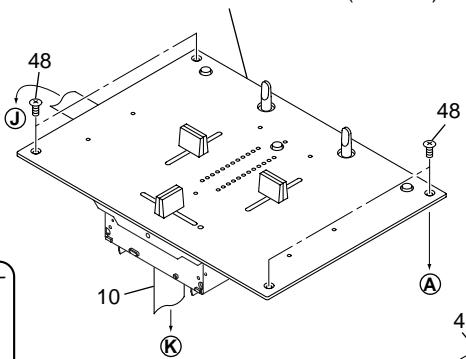
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2.2 EXTERIOR SECTION

A

Refer to "2.3 CONTROL PANEL (LOWER) SECTION".

Refer to "2.4 CONTROL PANEL (UPPER) SECTION".



Refer to "2.5 FRONT PANEL SECTION".

EXTERIOR SECTION Parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	MAIN Assy	DWX2337	28	Blind Cap	DNK4218
2	C1BF Assy	DWS1328	29	Foot	REC-434
3	C2BF Assy	DWS1329	30	Flexible Cable (17P)	DDD1246
4	SDRT Assy	DWX2321			
5	XLR Assy	DWX2322	31	Cord Stopper Stay	DNH2576
			NSP 32	Bottom Plate	DNH2570
6	DSP Assy	DWX2316	33	Rivet	RBM-003
△ 7	SW POWER SUPPLY	DWR1377	NSP 34	Chassis (9) Assy	DXB1815
△ 8	AC Power Cord	See Contrast table(2)	NSP 35	Partition Plate	DNH2573
△ 9	Strain Relief	See Contrast table(2)			
10	Flexible Cable (23P)	DDD1239	NSP 36	Chassis (9)	DNA1296
			NSP 37	Rear Panel	See Contrast table(2)
11	Flexible Cable (15P)	DDD1243	38	Shield Sheet A	DEC2569
12	Flexible Cable (17P)	DDD1234	39	Connector Assy (6P)	DKP3661
13	Connector Assy (9P)	DKP3662	40	Mini Clamp	DEC2588
14	Flexible Cable (27P)	DDD1242			
15	Locking Card Spacer	PNW2917	41	Flexible Cable (11P)	DDD1245
			42	Card Spacer	DNK2769
NSP 16	PC Support	VEC1584	43	Terminal Screw	AKE-031
17	Spacer B	DEC2622	44	Washer	DBE1010
18	Shield Sheet G	DEC2610	45	Nut	NKX2FUC
19	Spacer A	DEC2617			
NSP 20	Shield Case	DNH2572	46	Cord Cover	DNK4197
			47	Power Knob	DAC2133
NSP 21	Cord Stopper	ZCB-069Z	48	Screw	CMZ30P100FZK
22	Shield Sheet B	DEC2570	49	Screw	BBZ30P060FZK
23	Shield Sheet C	DEC2584	50	Screw	BPZ30P080FMC
24	Flexible Cable (19P)	DDD1238			
25	Flexible Cable (35P)	DDD1241	51	Screw	BBZ40P120FMC
			52	Connector Assy (8P)	DKP3660
26	Connector Assy	PF08EE-D15			
27	Connector Assy	DKP3659			

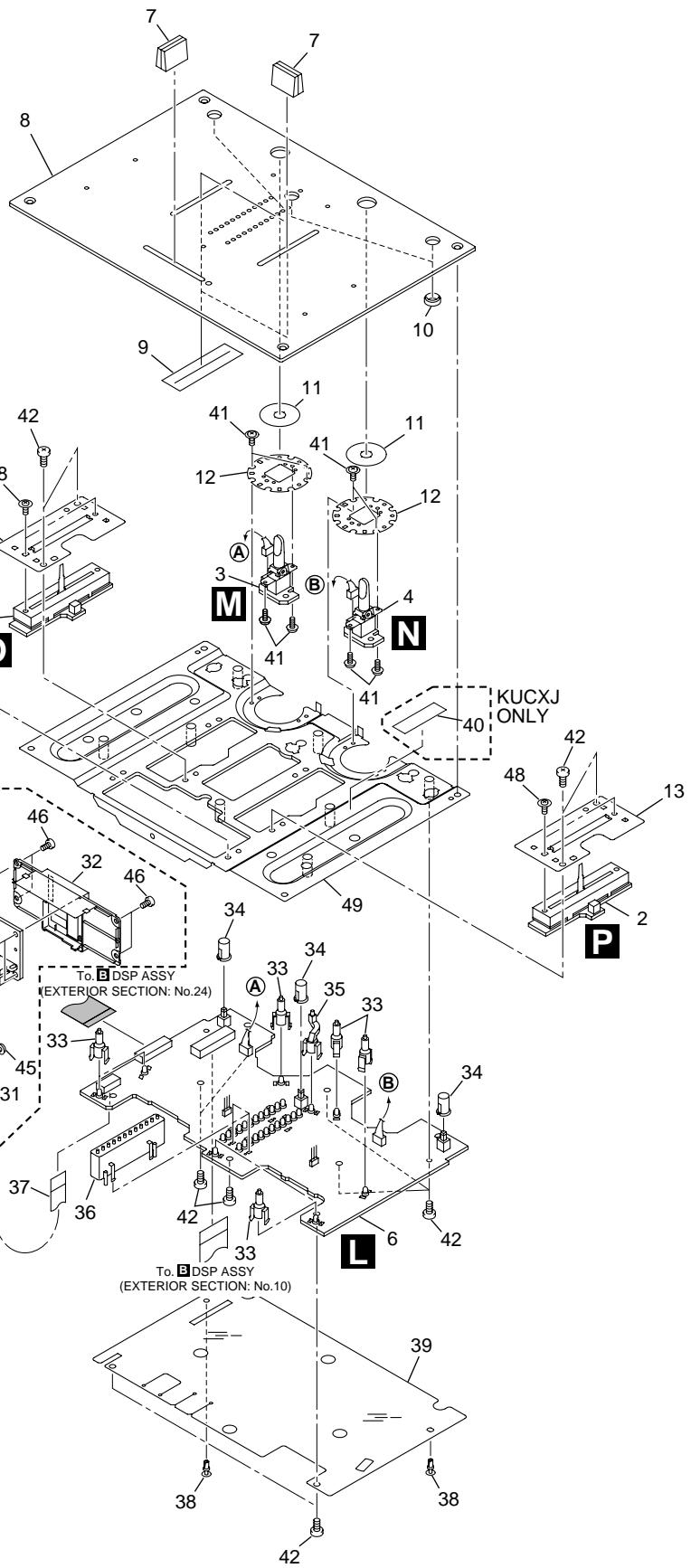
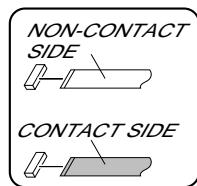
(2) CONTRAST TABLE

DJM-909/ KUCXJ, DJM-909/ WYXJ and DJM-909/ TLTXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DJM-909 KUCXJ	DJM-909 WYXJ	DJM-909 TLTXJ
△ 8	8	AC Power Cord	VDG1075	VDG1077	VDG1077
△ 9	9	Strain Relief	CM-22C	CM-22B	CM-22B
NSP	37	Rear Panel	DNC1656	DNC1655	DNC1657

2.3 CONTROL PANEL (LOWER) SECTION

A



B

C

D

E

F

CONTROL PANEL (LOWER) 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	FVA1 Assy	DWX2323	26	Case A	DNK4193
2	FVA2 Assy	DWX2324	27	Worm gear S	DNK4195
3	C1TR Assy	DWS1334	28	Rack gear S	DNK4196
4	C2TR Assy	DWS1335	29	MG Shaft	DLA1947
5	FDVR Assy	DWX2320	30	WG Holder	DNF1681
6	LVMR Assy	DWS1330	31	WG Spring	DBK1245
7	Slider Knob (L)	DNK4210	32	Case B	DNK4194
8	Control Panel (D9)	DNB1121	33	LED Lens (C)	DNK4217
9	Fader Packing (A)	DEC2571	34	Push SW Knob (B)	DNK4207
10	Push SW Guide	DNK4208	35	LED Lens (B)	DNK4216
11	SW Packing (A)	DEC2573	36	Level Meter Holder	DNK4214
12	Transform Panel	DNF1682	37	Flexible Cable (9P)	DDD1240
13	CH Fader Bracket	DNF1683	38	Rivet	RBM-003
14	CR Fader Bracket	DNF1684	39	Shield Sheet (F)	DEC2591
15	Cross Fader Assy-S	DXX2535	40	65 Label (S)	See Contrast table(2)
16	Washer	WT28D060D025	41	Screw	AMZ26P040FMC
17	O Ring (2.8)	DEB1618	42	Screw	BBZ30P060FZK
18	Slider Base	DNK4192	43	Screw	BPZ20P060FMC
19	Lever Plate	DNH2564	44	Screw	CPZ26P100FZK
20	Fader Magnet	DMG1010	45	Screw	AMZ20P040FMC
21	Yoke	DNH2569	46	Screw	BPZ20P050FMC
22	Encoder Plate S	DEC2568	47	Screw	PBA1062
23	Stopper S	DNH2578	48	Thin Head Screw	DBA1198
24	Guide Shaft	DLA1966	NSP 49	Panel Stay (D) Assy	DXB1787
25	MG Plate Assy	DXA1968	50	Screw	BPZ30P080FMC

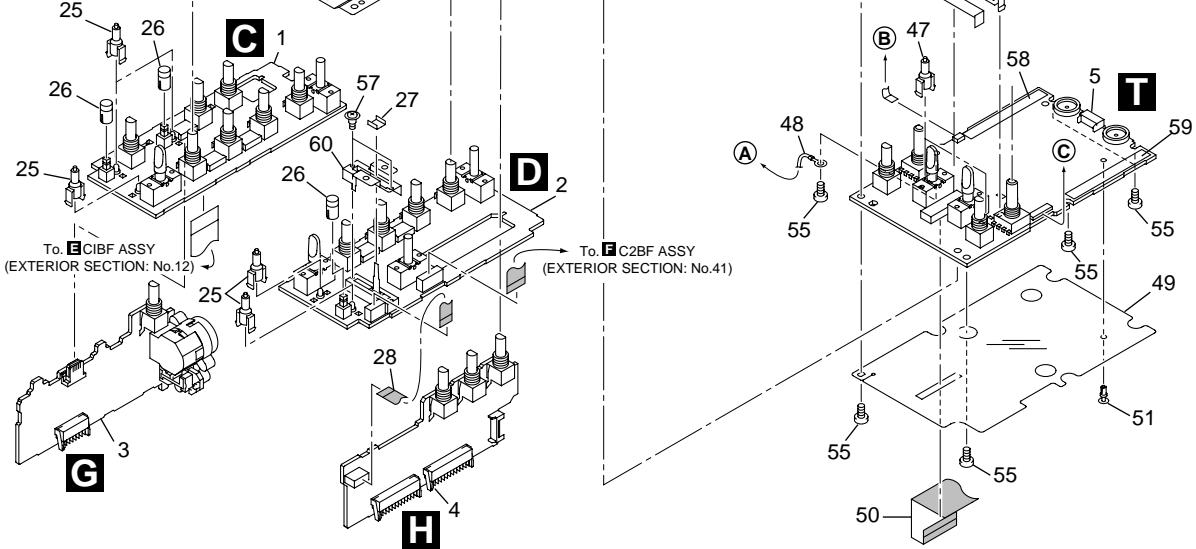
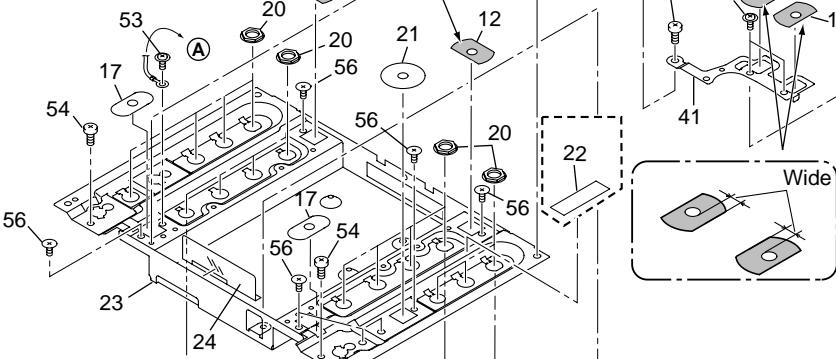
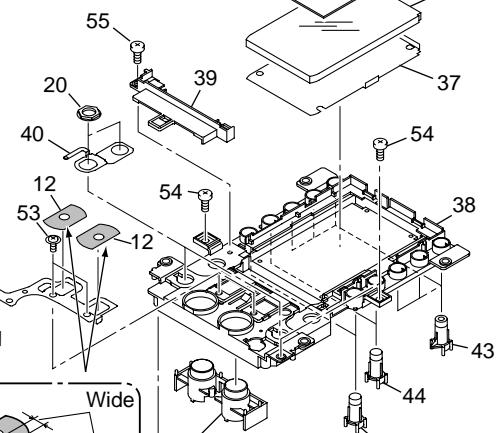
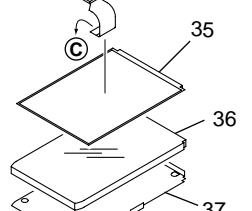
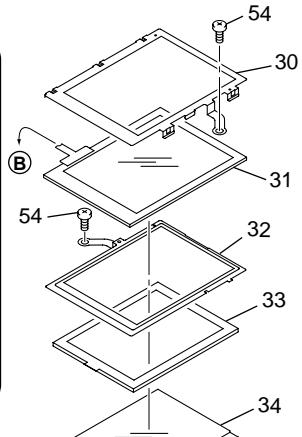
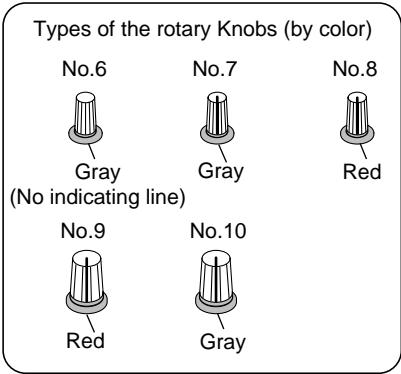
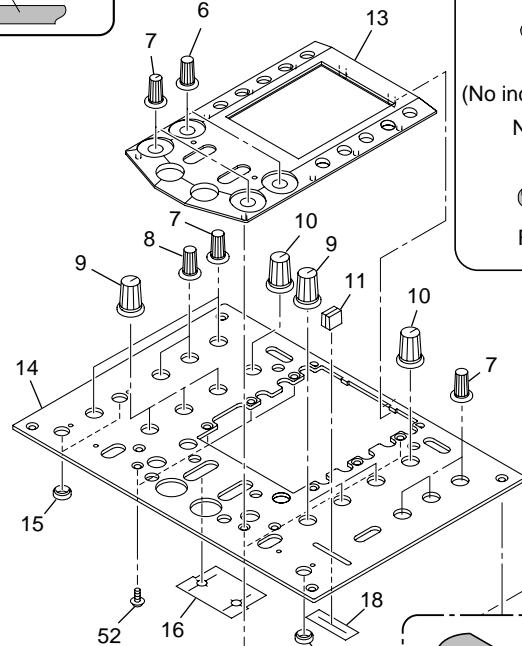
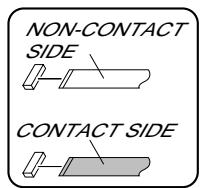
(2) CONTRAST TABLE

DJM-909/ KUCXJ, DJM-909/ WYXJ and DJM-909/ TLTXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DJM-909 KUCXJ	DJM-909 WYXJ	DJM-909 TLTXJ
	40	65 Label (S)	DRW2164	Not used	Not used

2.4 CONTROL PANEL (UPPER) SECTION

A



CONTROL PANEL (UPPER) SECTION Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	C1EQ Assy	DWS1326	31	Touch Panel	DSX1062
2	C2EQ Assy	DWS1327	32	Bracket	DNH2574
3	MICB Assy	DWX2318	33	Gasket	DEC2632
4	HPBO Assy	DWX2319	34	LCD Module	DAV1002
5	LCD Assy	DWX2317	35	Diffusion Sheet	DEC2619
6	Rotary Knob (Small: Gray)	DNK4205	36	Lighting Conductor	DNK4200
7	Rotary Knob (Small: Gray)	DNK4203	37	Reflection Sheet	DEC2620
8	Rotary Knob (Small: Red)	DNK4204	38	LCD Holder	DNK4199
9	Rotary Knob (Large: Red)	DNK4202	39	LCD Holder (M)	DNK4225
10	Rotary Knob (Large: Gray)	DNK4201	40	Earth Spring	DBK1248
11	Slider Knob (S)	DNK4211	41	Earth Bracket	DNH2575
12	SW Packing (D)	DEC2580	42	Tap Knob	DNK4209
13	Escutcheon	DNK4222	43	Preset Knob	DNK4306
14	Control Panel (U9)	DNB1120	44	Tact Knob (E)	DNK4265
15	Push SW Guide	DNK4208	45	Tact Knob	DNK4213
16	SW Packing (C)	DEC2621	46	Shade Sheet	DEC2631
17	SW Packing (B)	DEC2574	47	LED Lens (C)	DNK4217
18	Fader Packing (B)	DEC2572	48	Earth Lug Assy	DDX1191
19	• • • •		49	Shield Sheet D	DEC2579
20	Flange Nut	DBN1004	50	Flexible Cable (21P)	DDD1237
21	SW Packing (A)	DEC2573	51	Rivet	RBM-003
22	65 Label (S)	See Contrast table(2)	52	Screw	PBA1062
NSP 23	Panel Stay (U9)	DND1250	53	Screw	AMZ26P040FMC
24	Shield Sheet E	DEC2581	54	Screw	BBZ30P060FZK
25	LED Lens (A)	DNK4215	55	Screw	BPZ30P080FMC
26	Push SW Knob (A)	DNK4206	56	Screw	CMZ26P050FZK
27	Cue Earth Plate	DBK1252	57	Screw	DBA1141
28	Flexible Cable (7P)	DDD1244	58	Knob Cushion L	DEC2656
29	• • • •		59	Knob Cushion R	DEC2657
30	Earth Plate	DNH2577	60	Cue Fader Bracket	DNF1690

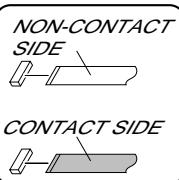
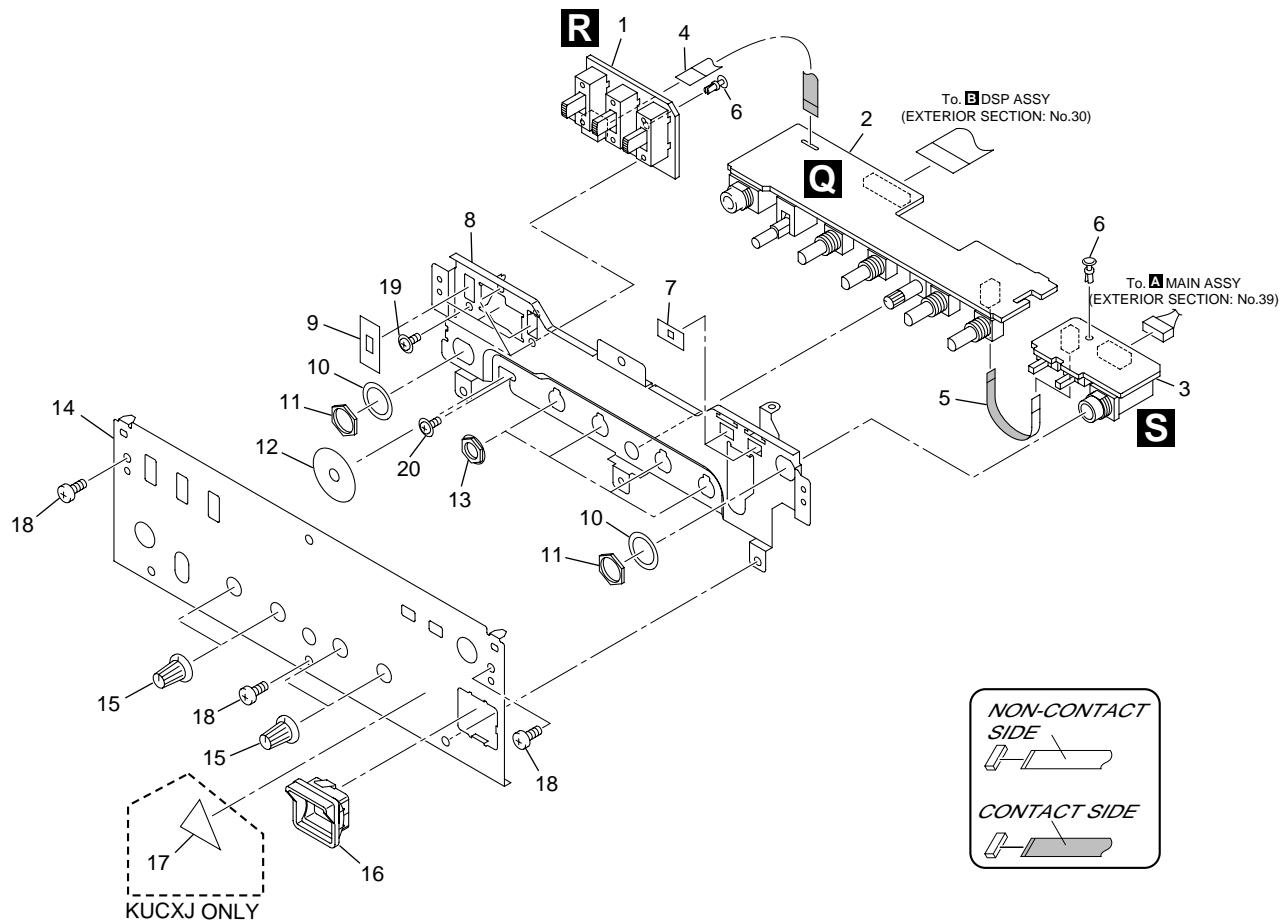
(2) CONTRAST TABLE

DJM-909/ KUCXJ, DJM-909/ WYXJ and DJM-909/ TLTXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DJM-909 KUCXJ	DJM-909 WYXJ	DJM-909 TLTXJ
	22	65 Label (S)	DRW2164	Not used	Not used

2.5 FRONT PANEL SECTION

A



E

F

FRONT PANEL 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	RVSW Assy	DWS1332	11	Nut	NKX2FUC
2	CFVR Assy	DWS1331	12	SW Packing (A)	DEC2573
3	FSSW Assy	DWS1333	13	Flange Nut	DBN1004
4	Flexible Cable (6P)	DDD1235	14	Front Panel (9)	DNB1119
5	Flexible Cable (3P)	DDD1236	15	Rotary Knob (SS)	DAA1162
6	Rivet	RBM-003	16	Power Knob Guide	DNK4198
7	Slide Packing (B)	DEC2590	NSP 17	Caution Label	See Contrast table(2)
NSP 8	Front Panel Stay	DNH2571	18	Screw	BBZ30P060FZK
9	Slide SW Packing (A)	DEC2589	19	Screw	AMZ26P040FMC
10	Washer	DBE1010	20	Screw	PMA30P060FMC

(2) CONTRAST TABLE

DJM-909/ KUCXJ, DJM-909/ WYXJ and DJM-909/ TLTXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DJM-909 KUCXJ	DJM-909 WYXJ	DJM-909 TLTXJ
NSP	17	Caution Label	DRW1975	Not used	Not used

A

B

C

D

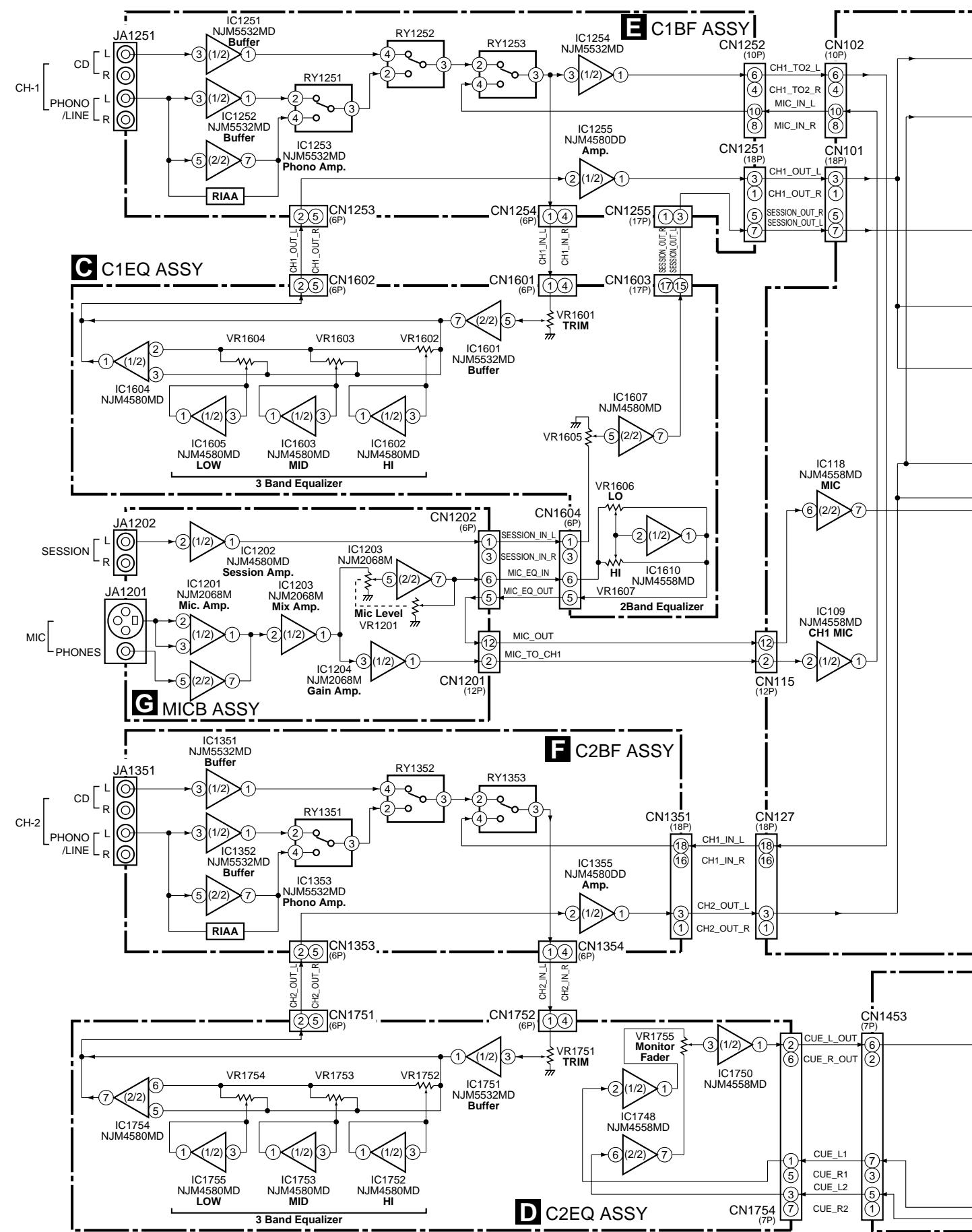
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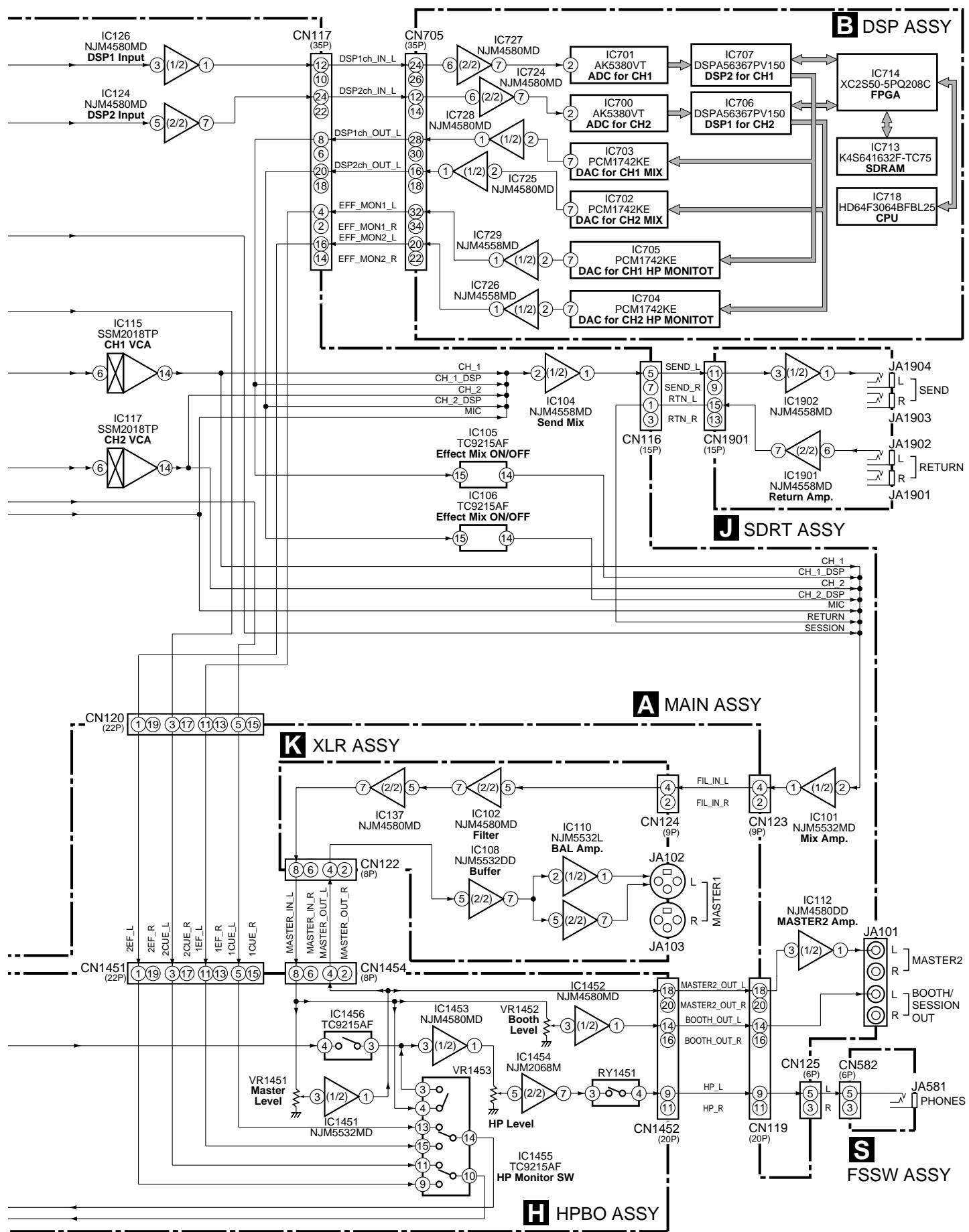
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3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

3.1.1 OVERALL BLOCK DIAGRAM



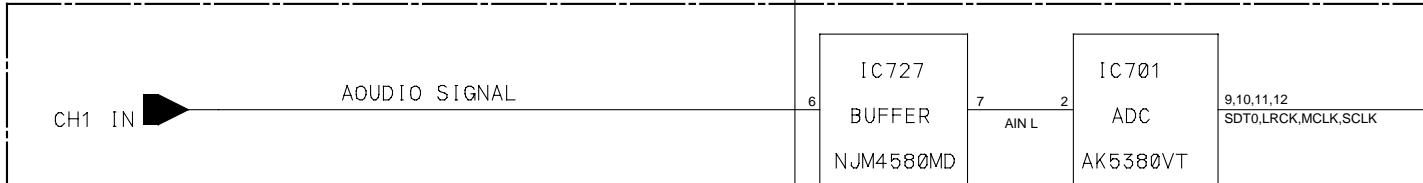


3.1.2 DSP/ LCD BLOCK DIAGRAM

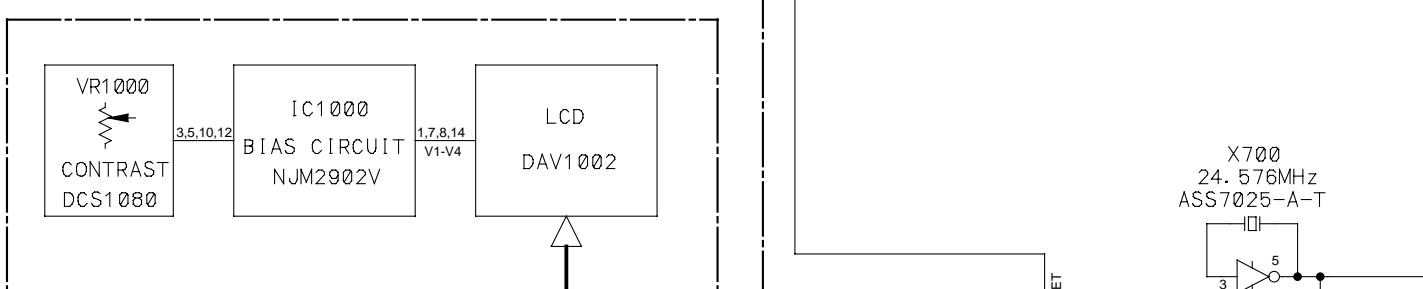
A



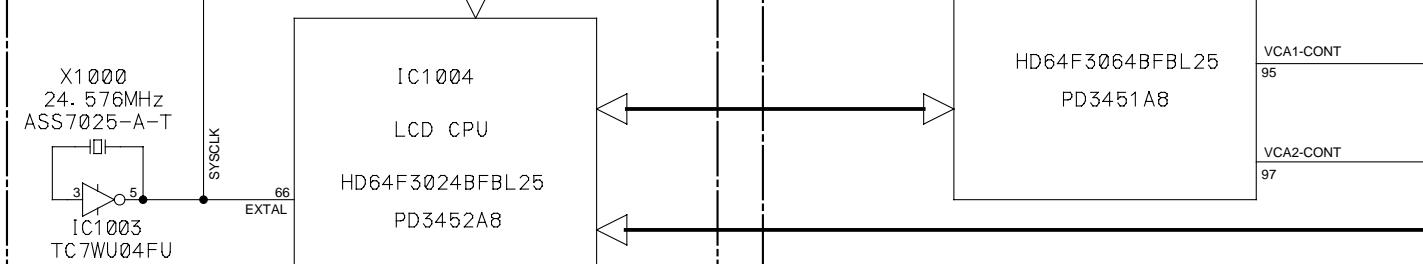
B



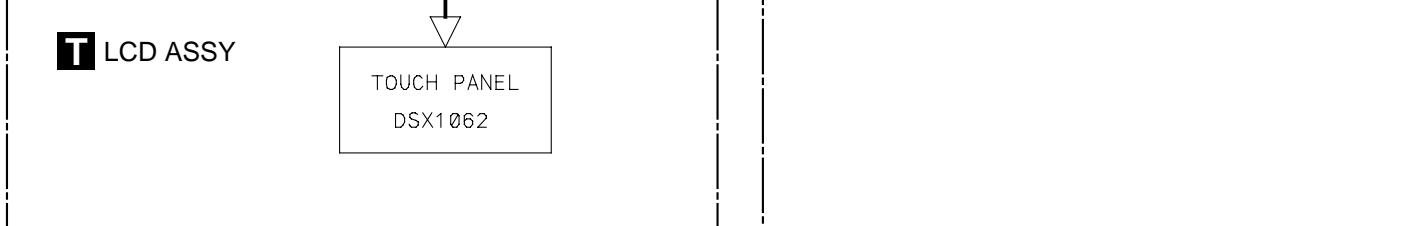
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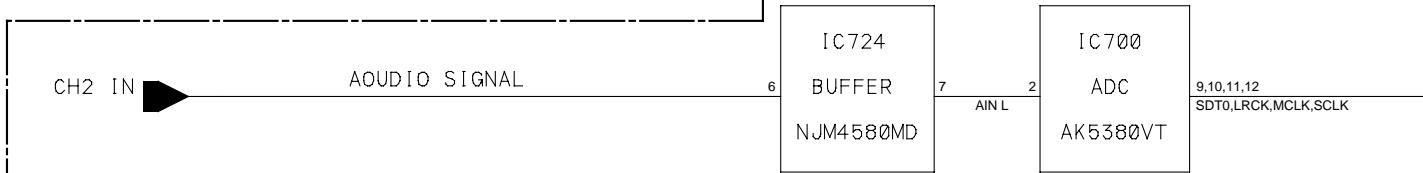
D

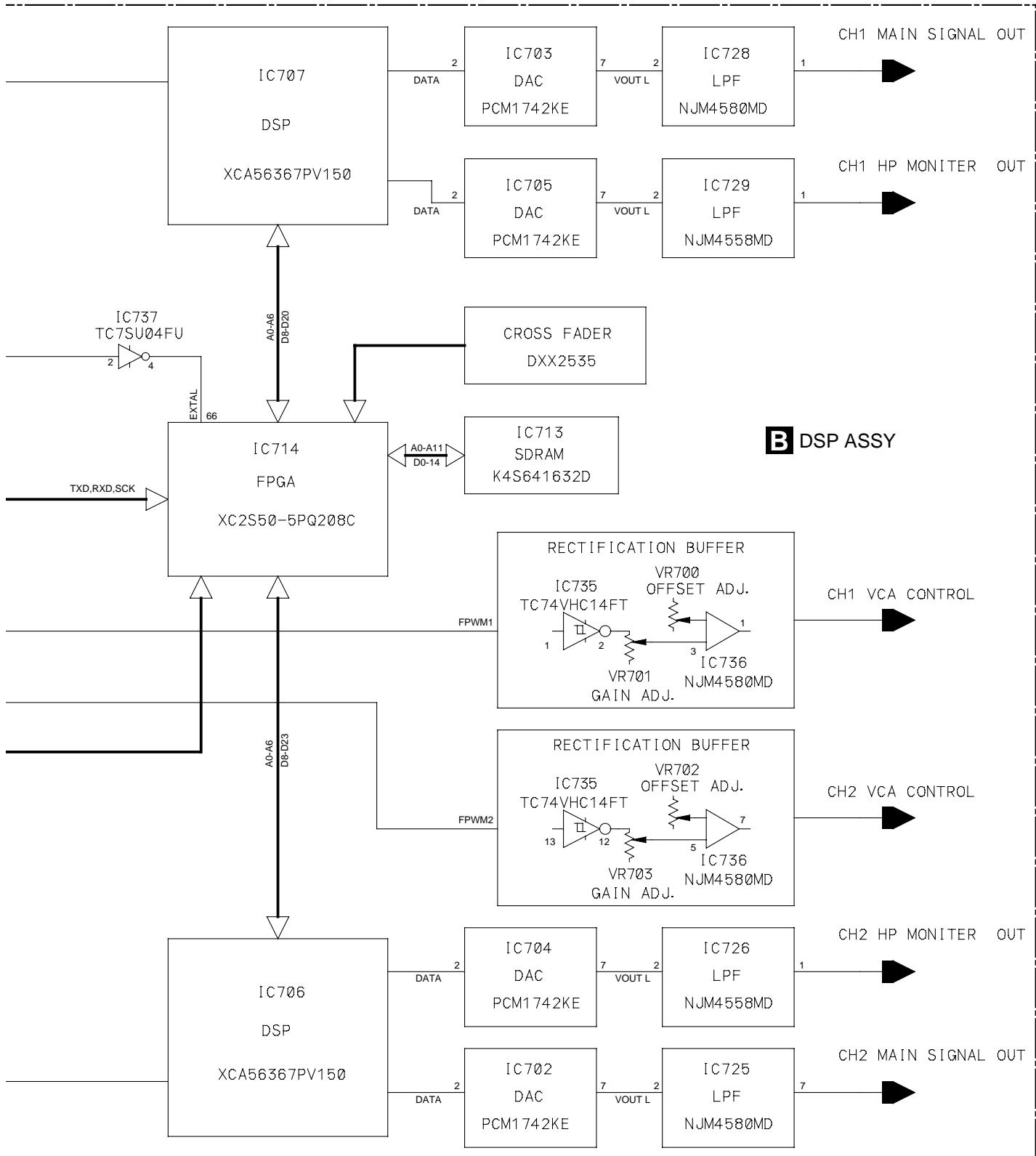


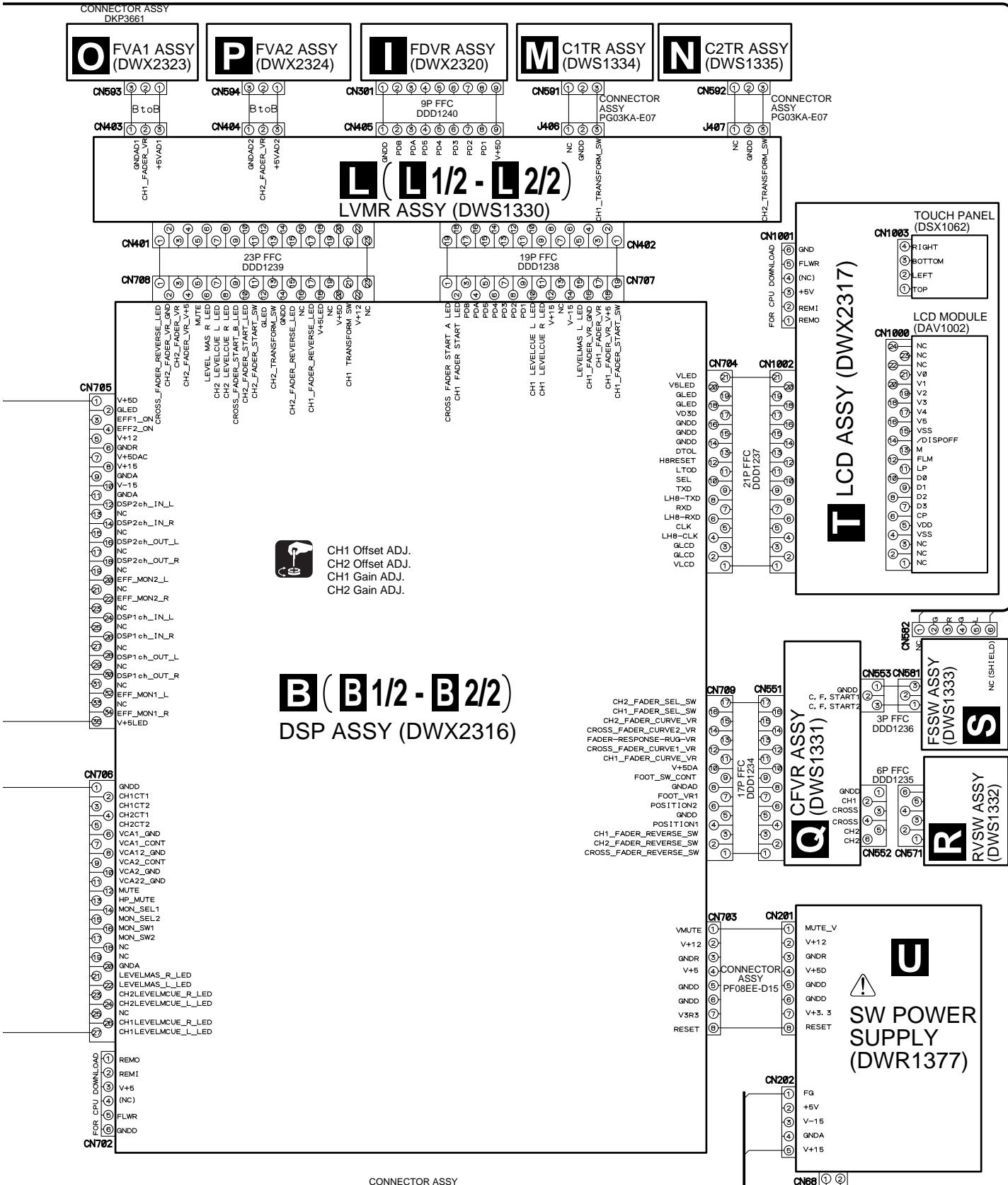
E



F





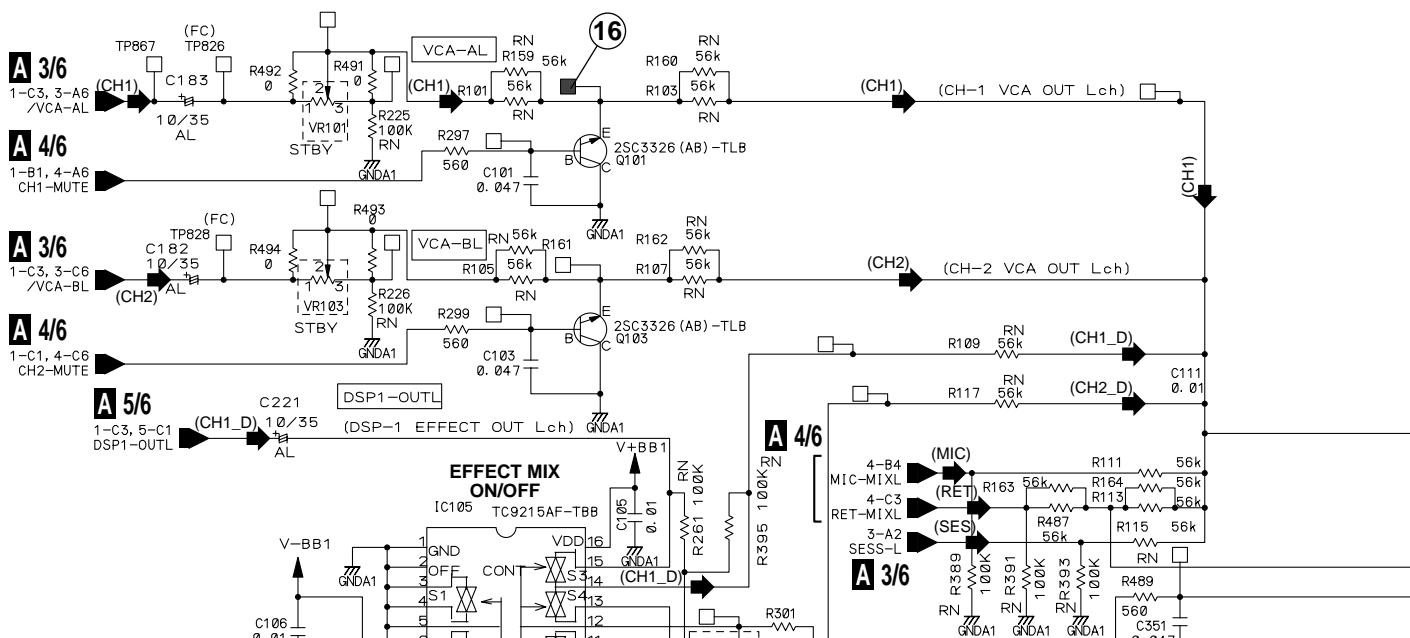


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is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

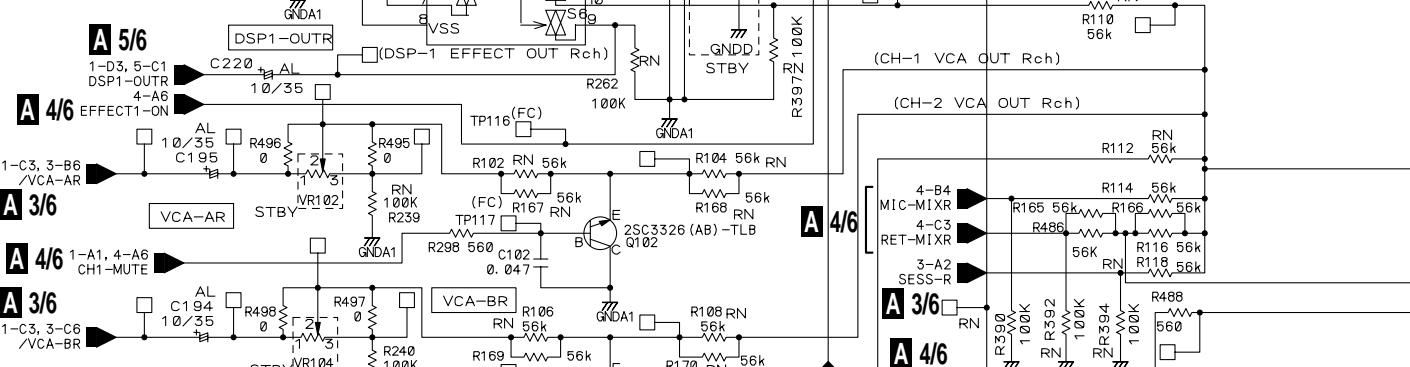
POWER CORD
KUCXJ : VDG1075
WYXJ : VDG1077
TLTXJ : VDG1077

3.3 MAIN ASSY (1/6)

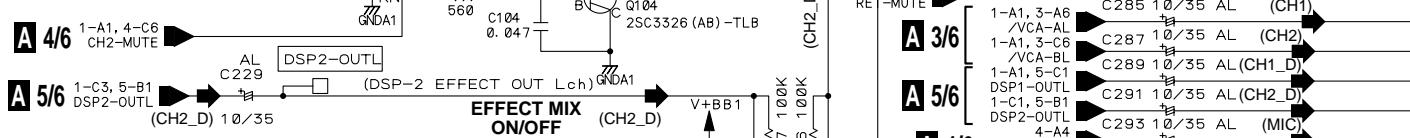
A



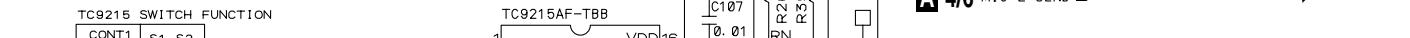
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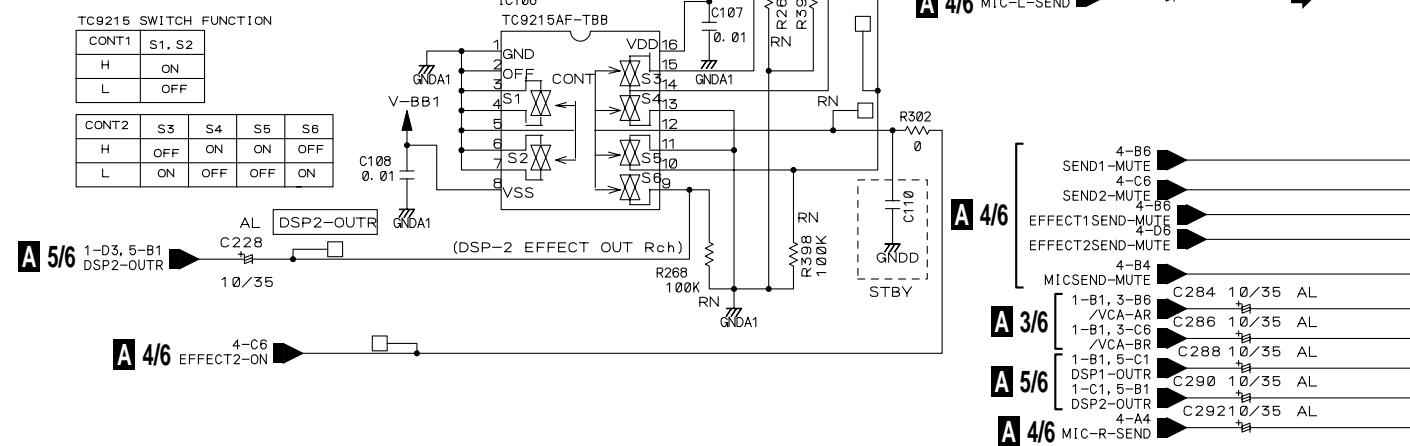
C



D



E

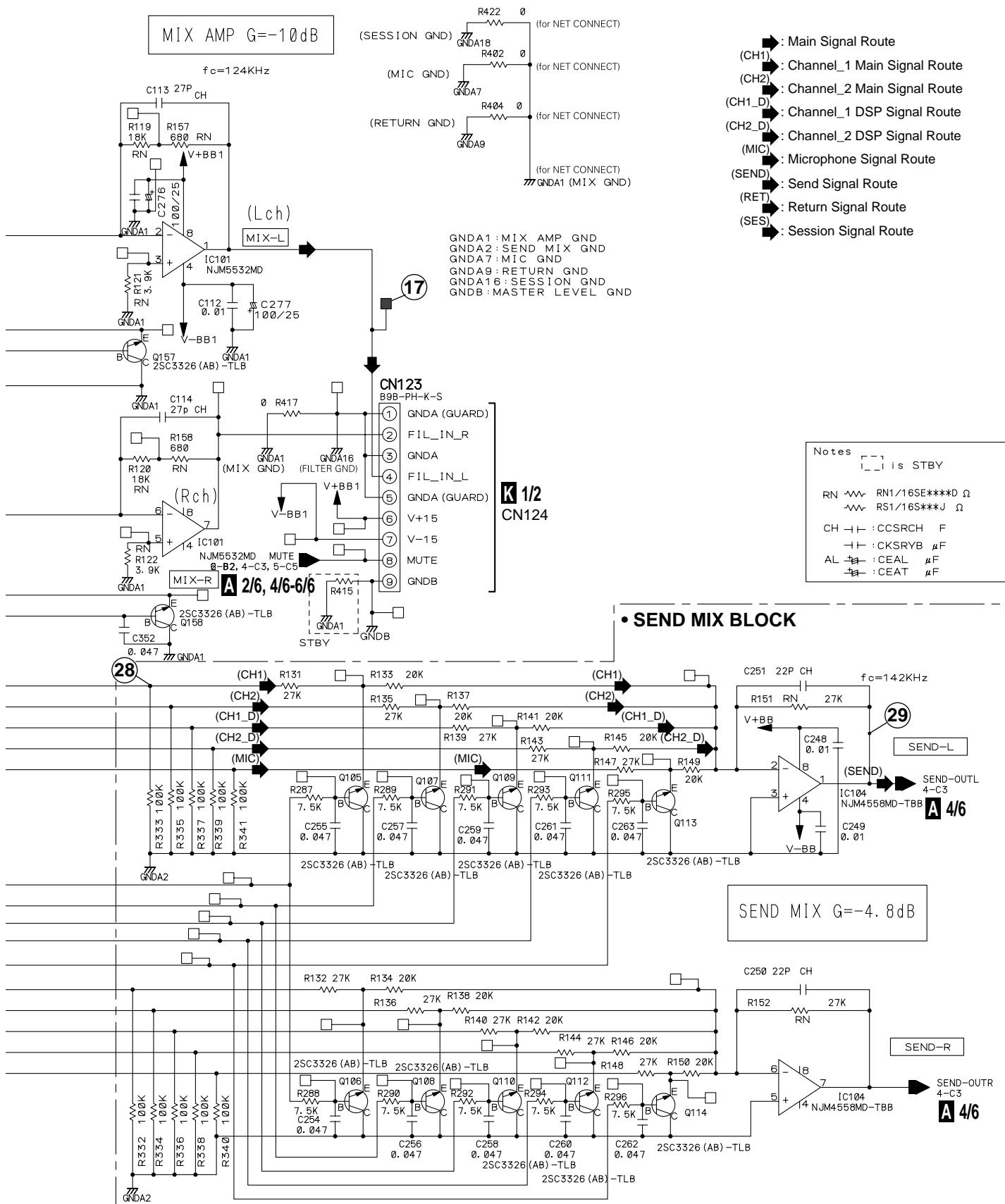


F

A 1/6

A 1/6 MAIN ASSY (DWX2337)

• MIX AMP. BLOCK

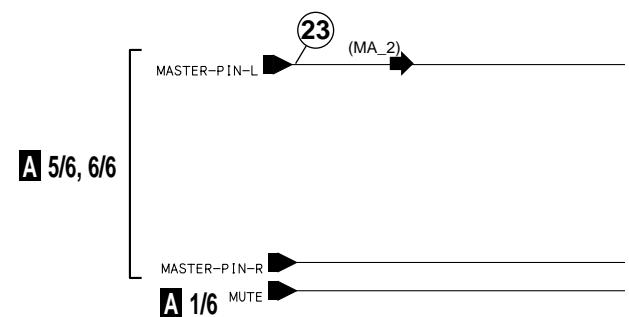


3.4 MAIN ASSY (2/6)

A

A 2/6 MAIN ASSY (DWX2337)

B



C

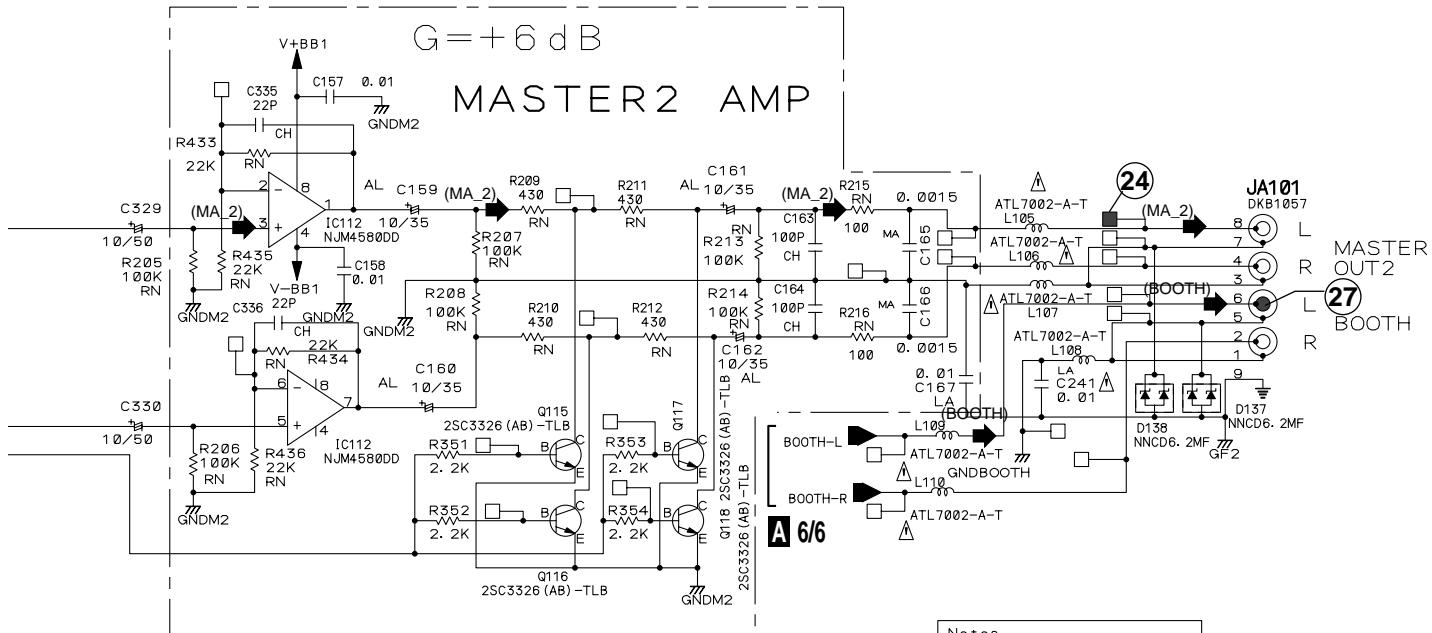
D

E

F

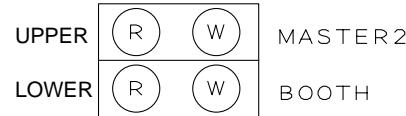
A 2/6

(MA_2) : MASTER_2 Signal Route
 (BOOTH) : Booth Signal Route



Notes

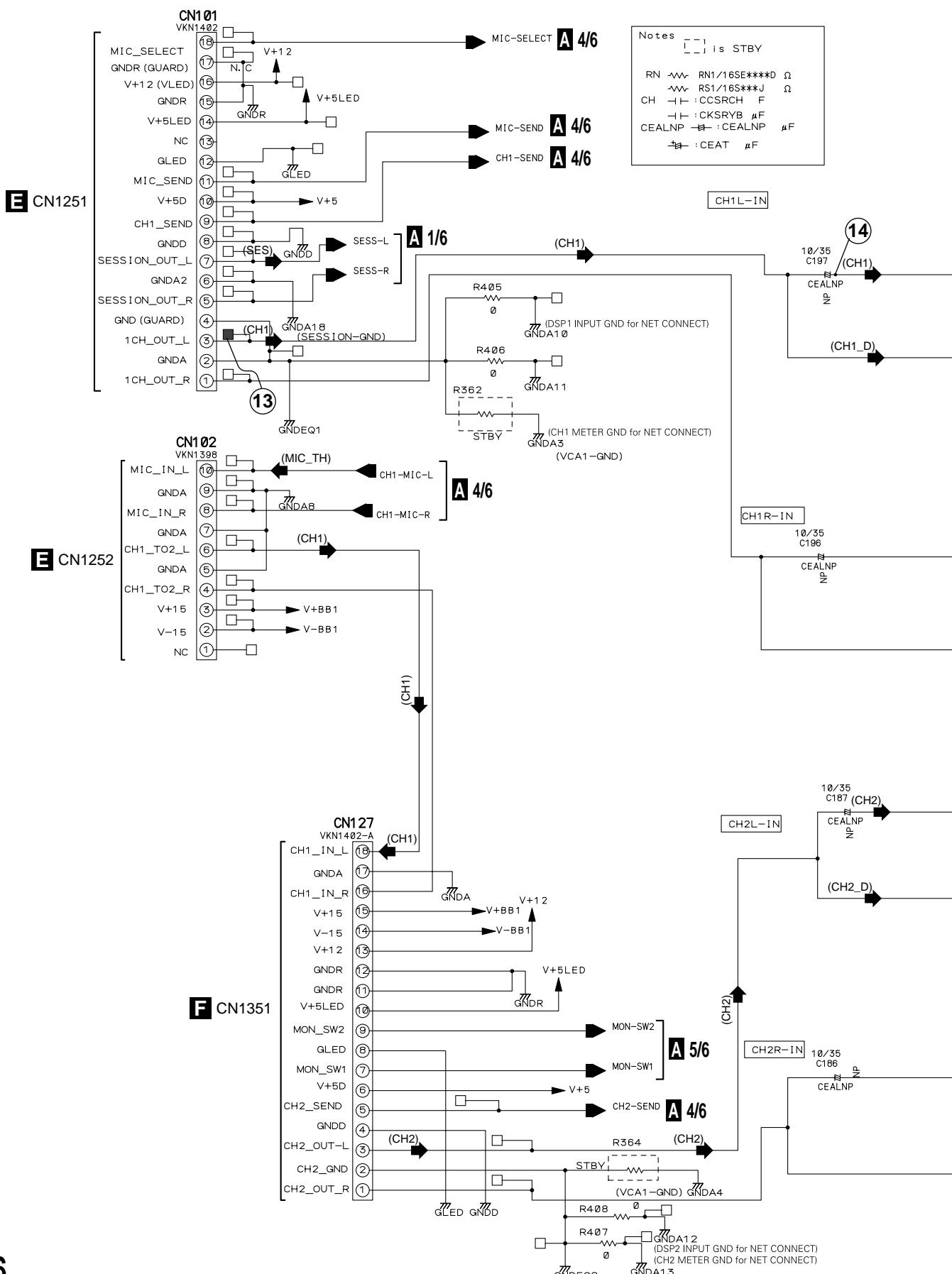
- is STBY
- RN ~~~ RN1/16SE****D Ω
- ~~~ RS1/16S***J Ω
- CH — : CCSRCH F
- LA — : CFTLA μ F
- MA — : CQMA μ F
- : CKSRYB μ F
- AL — : CEAL μ F
- : CEAT μ F



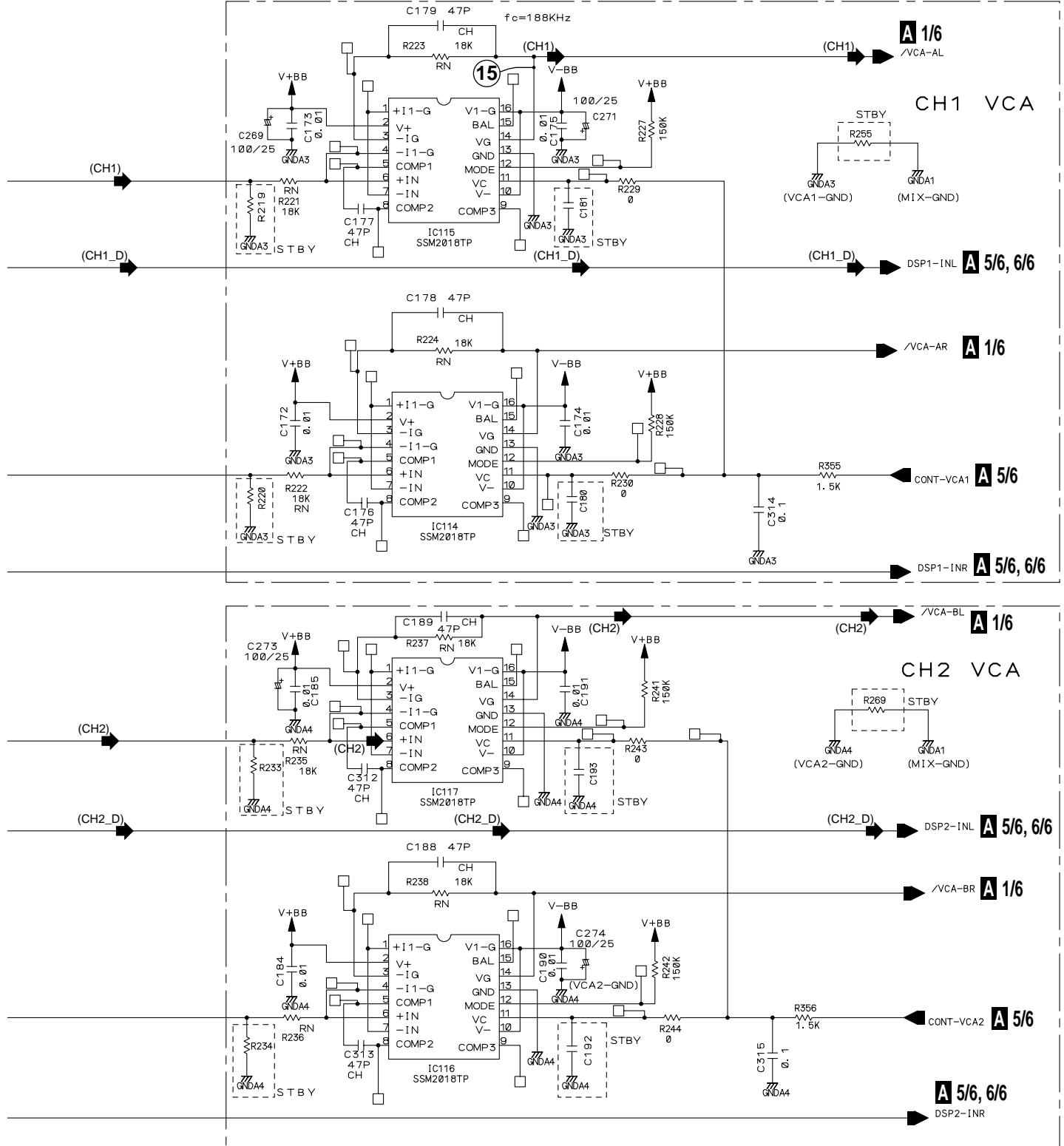
3.5 MAIN ASSY (3/6)

A

A 3/6 MAIN ASSY (DWX2337)

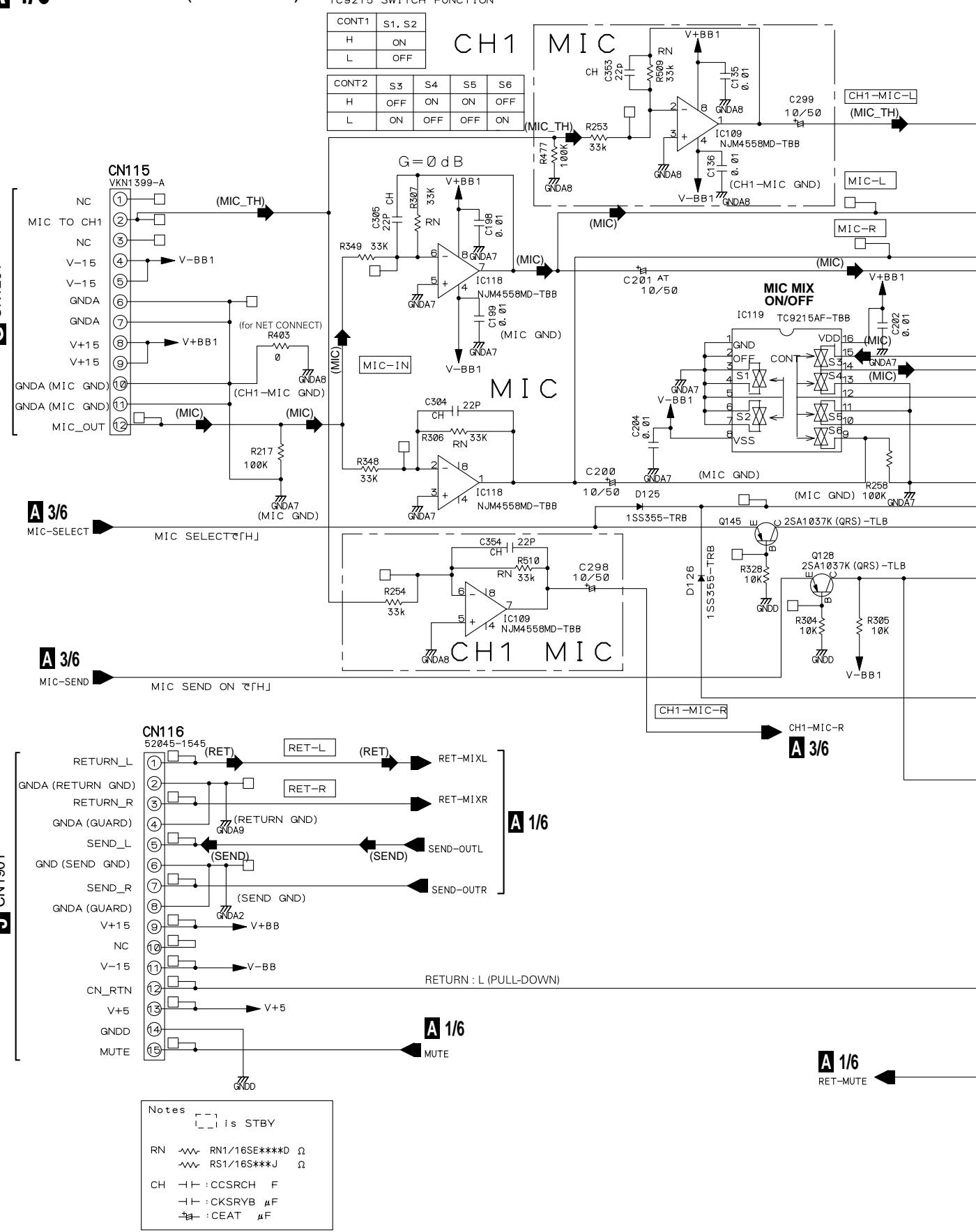


(CH1) : Channel_1 Main Signal Route
 (CH2) : Channel_2 Main Signal Route
 (CH1_D) : Channel_1 DSP Signal Route
 (CH2_D) : Channel_2 DSP Signal Route
 (MIC_TH) : Microphone Through Signal Route
 (SES) : Session Signal Route



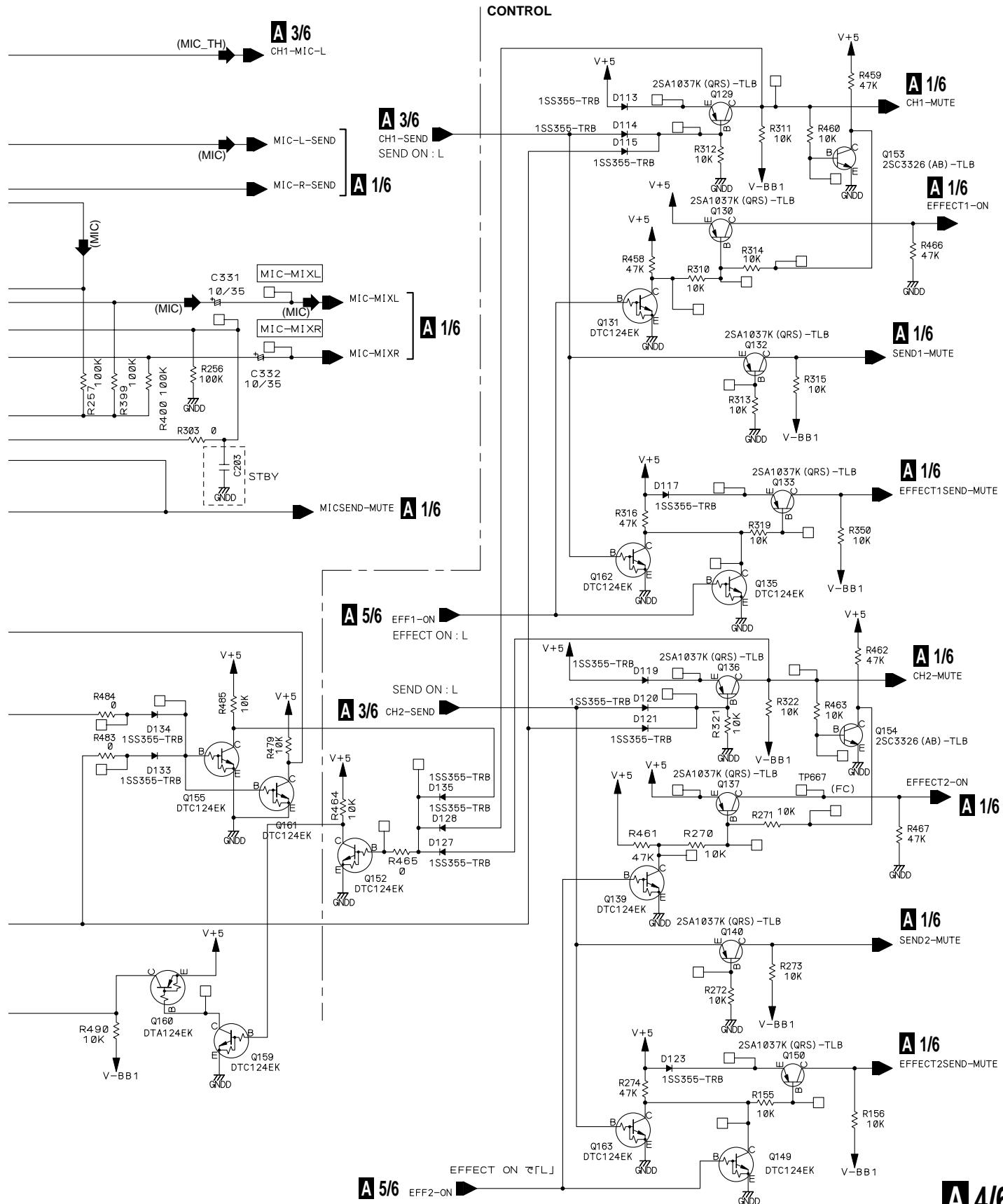
3.6 MAIN ASSY (4/6)

A 4/6 MAIN ASSY (DWX2337)



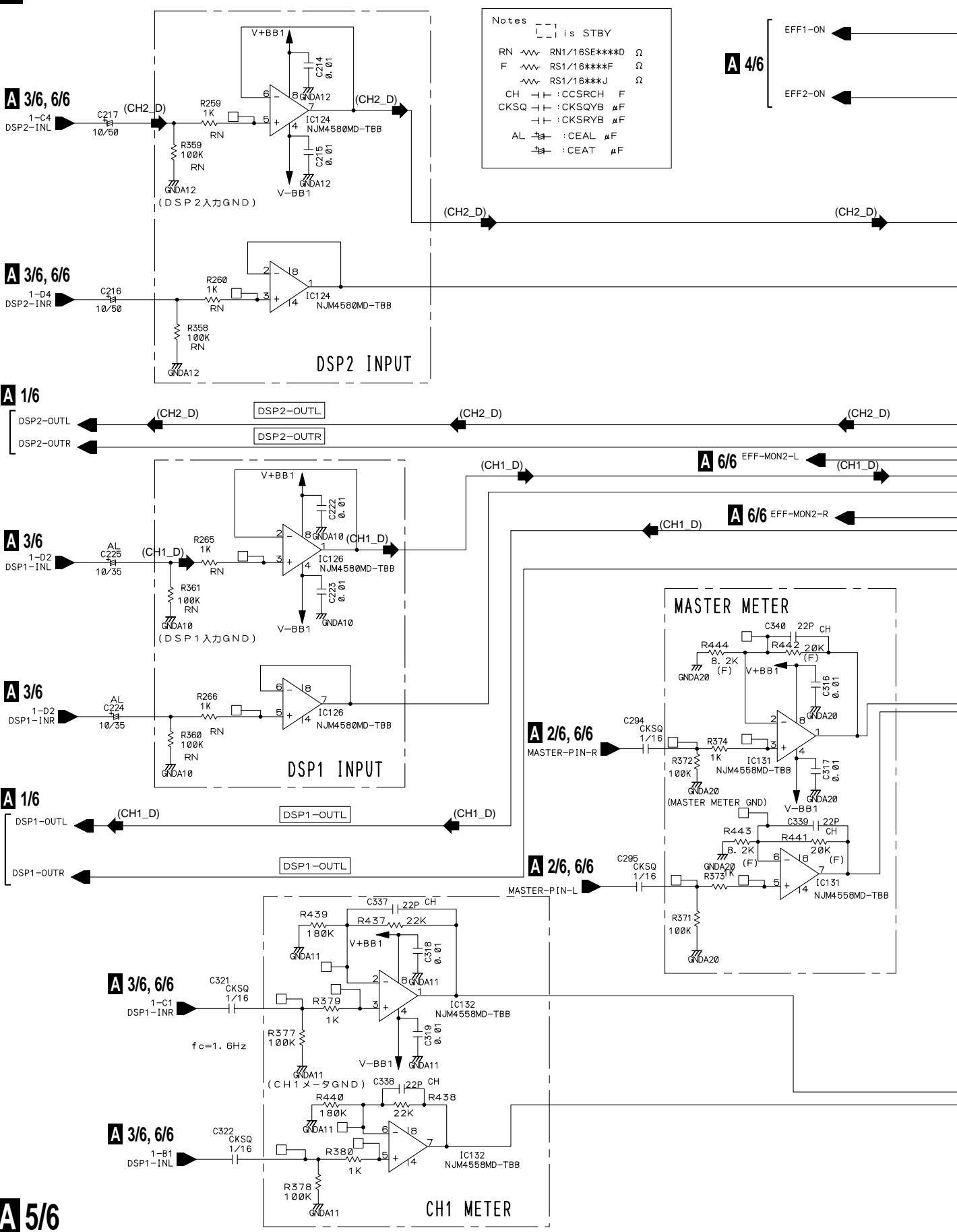
A 4/6

(MIC) : Microphone Signal Route
 (MIC_TH) : Microphone Through Signal Route
 (SEND) : Send Signal Route
 (RET) : Return Signal Route



3.7 MAIN ASSY (5/6)

A 5/6 MAIN ASSY (DWX2337)

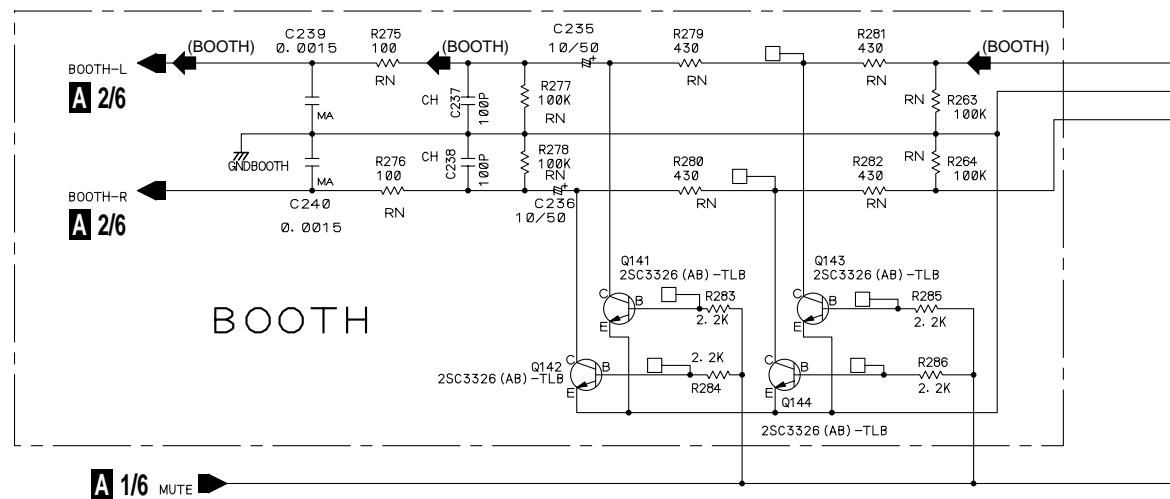




3.8 MAIN ASSY (6/6)

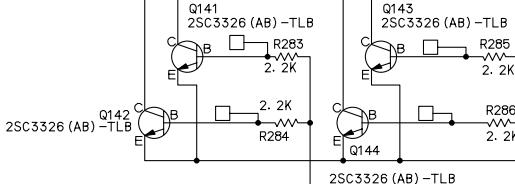
A

A 6/6 MAIN ASSY (DWX2337)



B

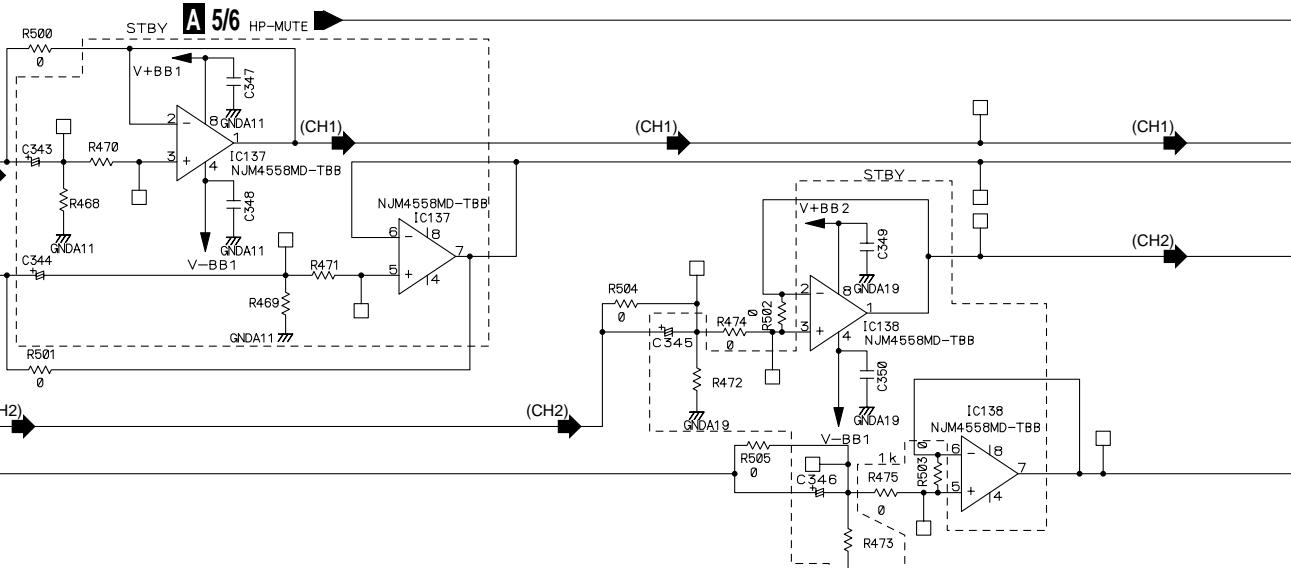
BOOTH



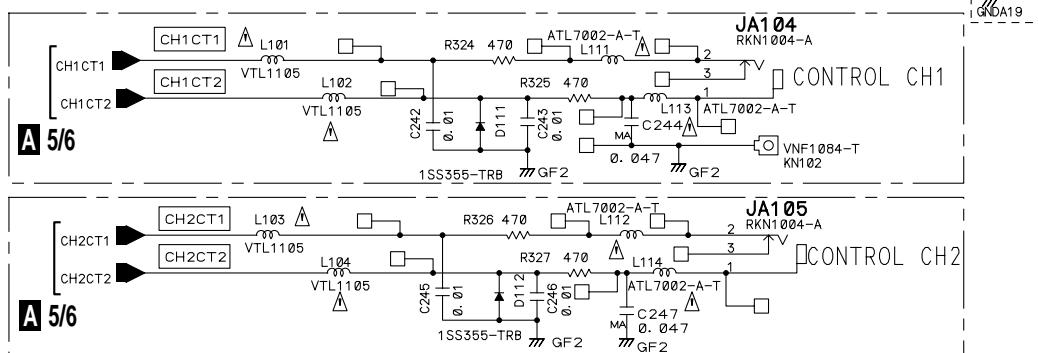
A 1/6 MUTE ➤

C

A 3/6, 5/6



D



E

GNDA1 : MIX AMP GND
 GNDA2 : SEND MIX GND
 GNDA3 : VCA1 GND
 GNDA4 : VCA2 GND
 GNDA5 : VCA12 GND
 GNDA6 : VCA22 GND
 GNDA7 : MIC GND
 GNDA8 : CH1 MIC GND
 GNDA9 : RETURN GND
 GNDA10 : DSP1 INPUT GND

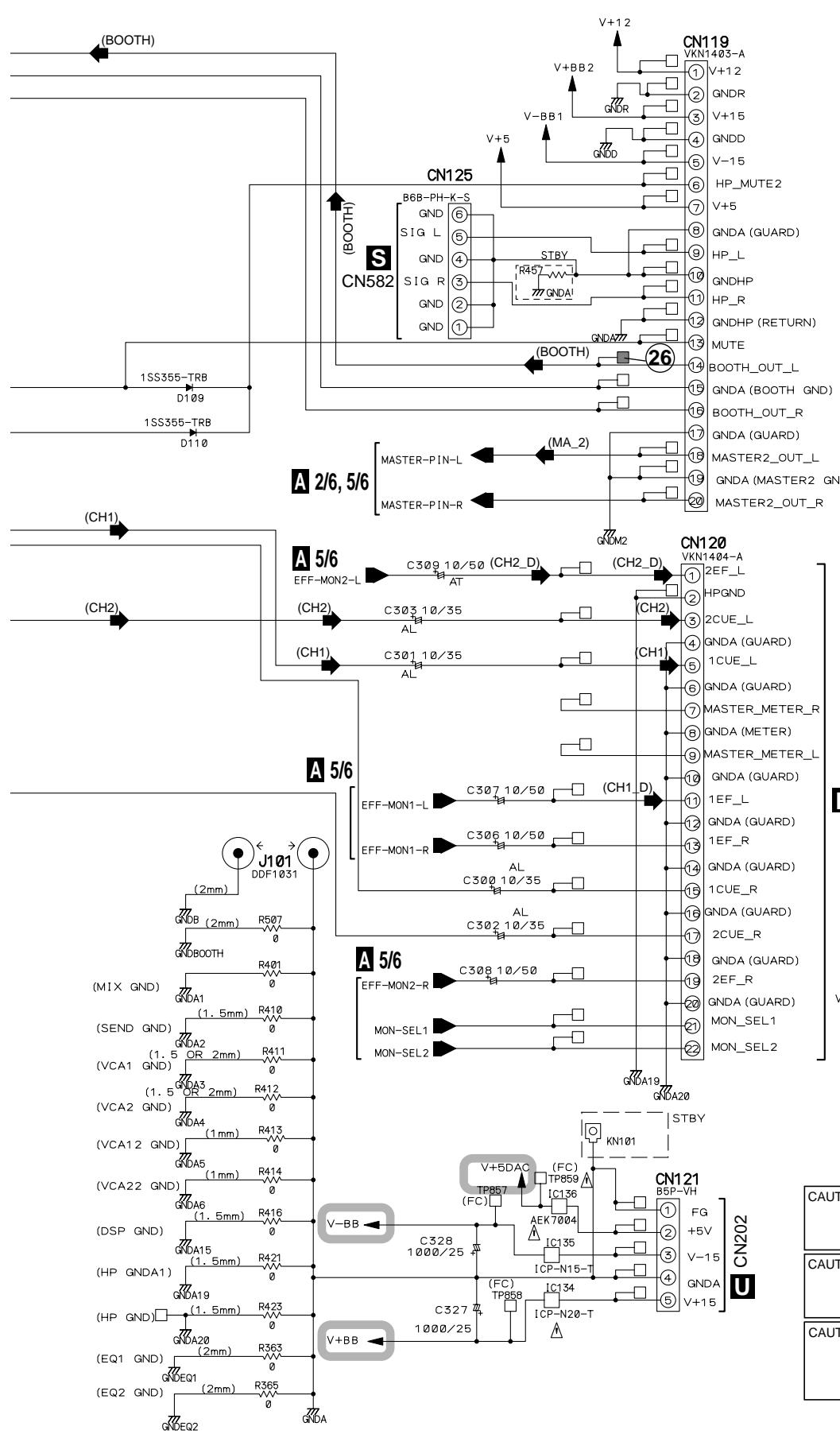
GNDA11 : CH1METER GND
 GNDA12 : DSP2 INPUT GND
 GNDA13 : CH2METER GND
 GNDA14 : MASTER METER GND
 GNDA15 : DSP GND
 GNDA16 : FILTER GND
 GNDA17 : MASTER LEVEL IN GND
 GNDA18 : SESSION GND
 GNDM2 : MASTER2 GND
 GNDB : MASTER LEVEL OUT GND

Notes

RN ~~~ RN1/16SE****Ω
 ~~~ RS1/16S\*\*\*J  
 CH -I- :CCSRCH F  
 MA -I- :CQMA μF  
 -I- :CKSRYB μF  
 AL -B- :CEAL μF  
 -B- :CEAT μF

F

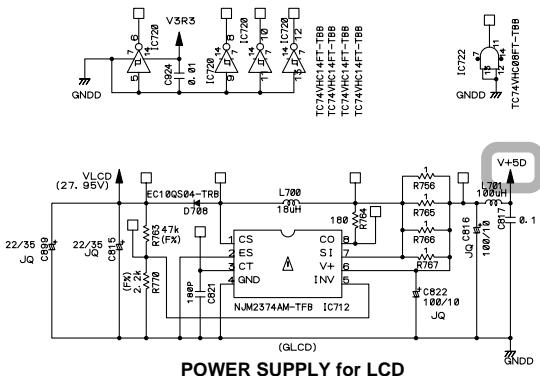
### A 6/6



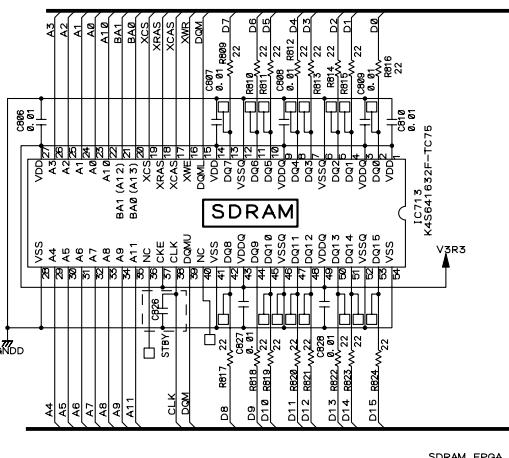
## 3.9 DSP ASSY (1/2)

A

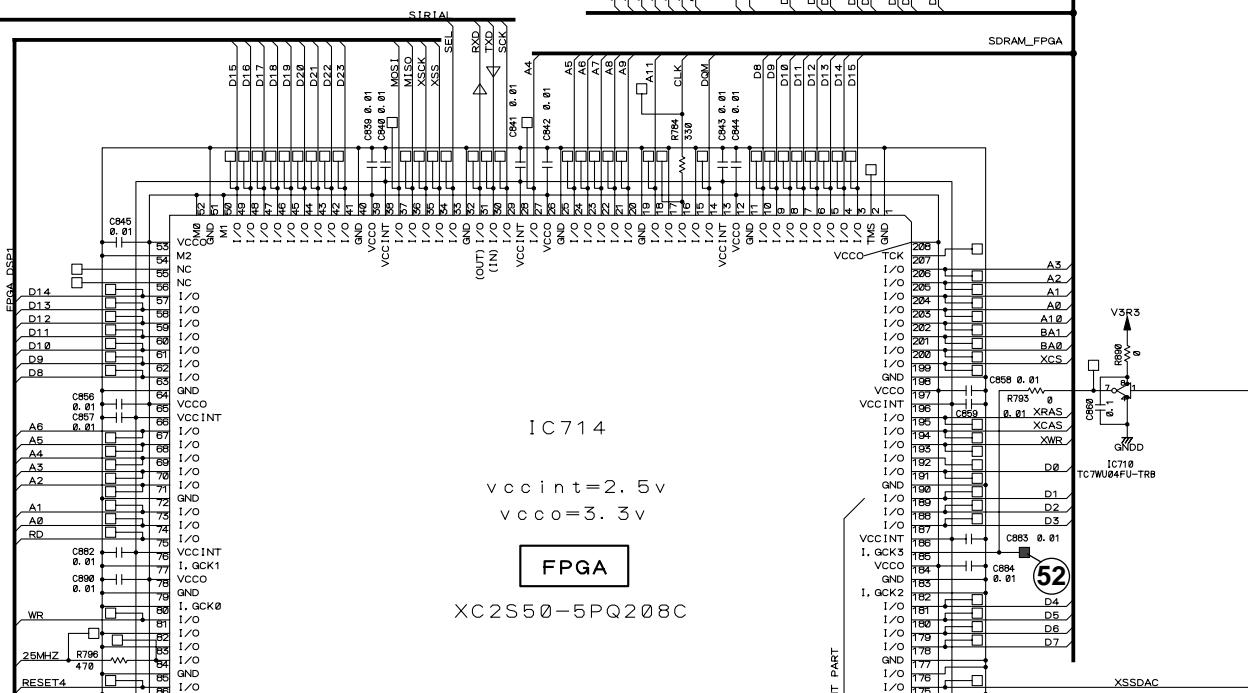
### B 1/2 DSP ASSY (DWX2316)



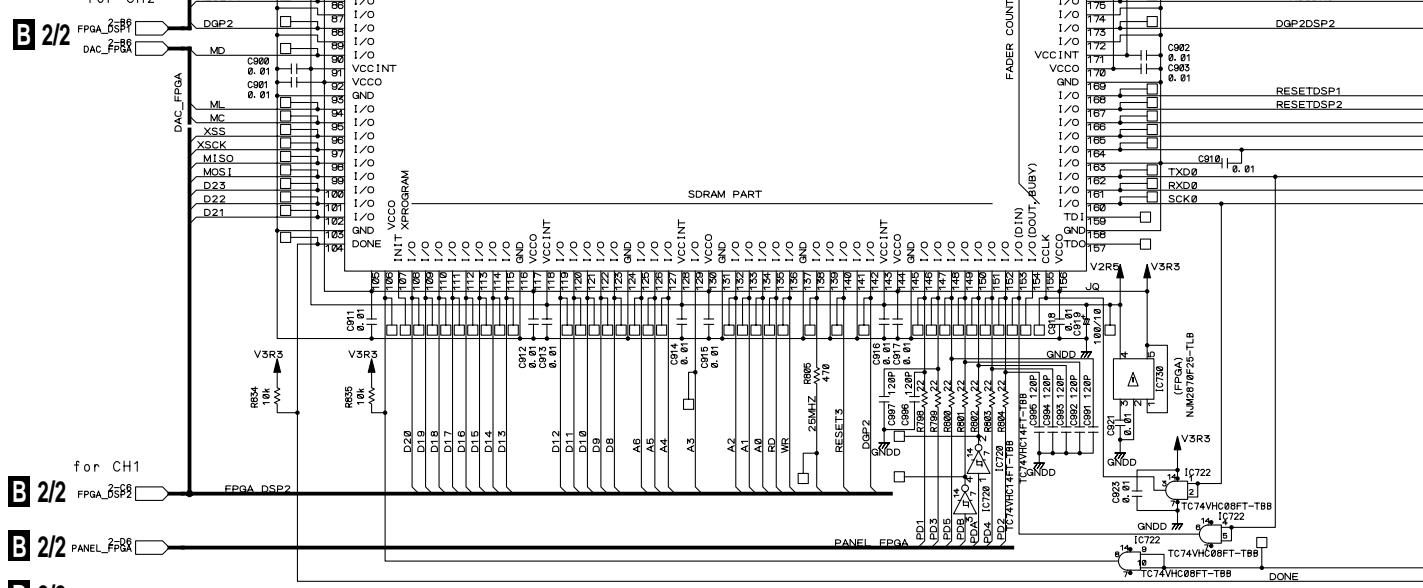
B



C

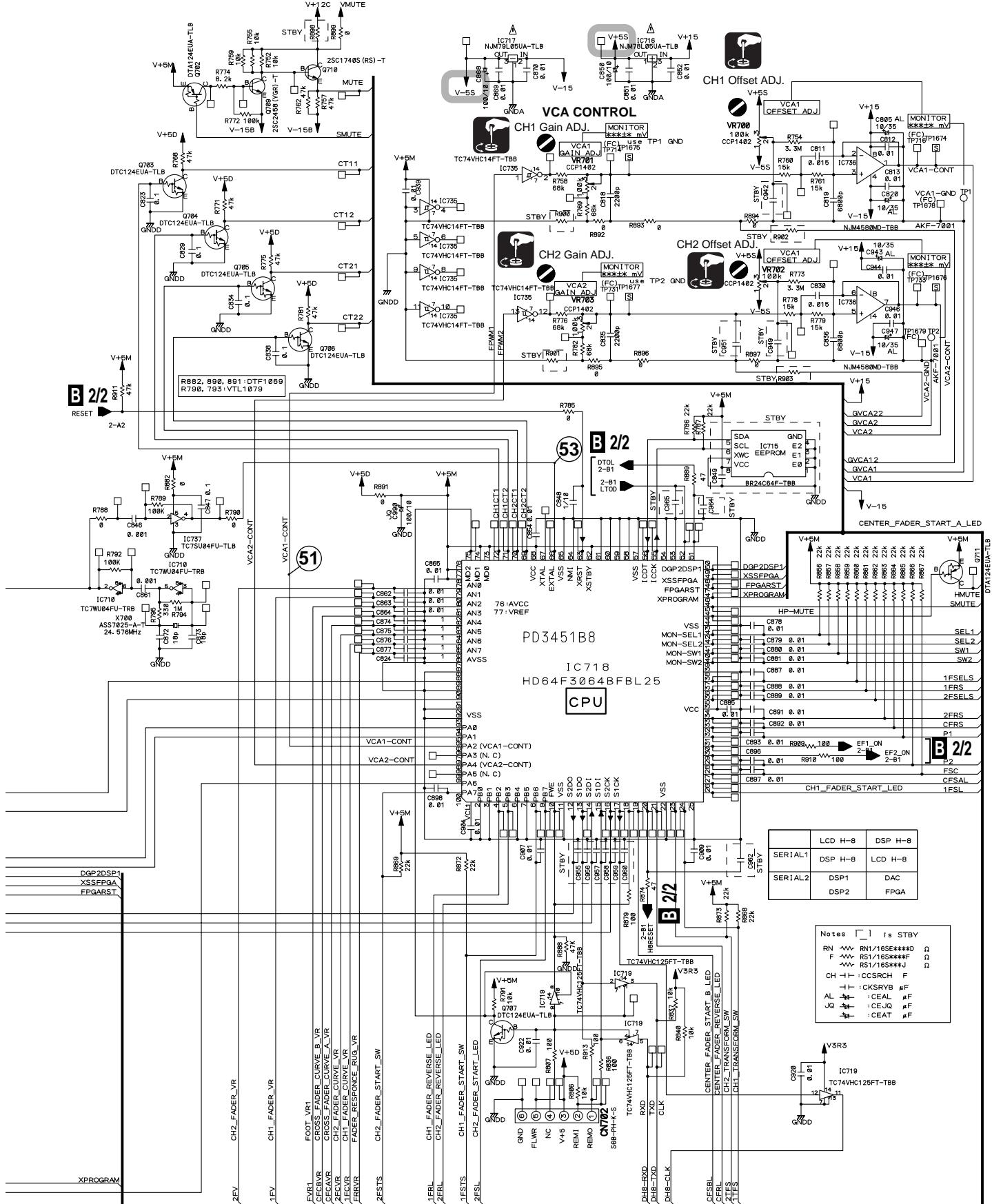


D

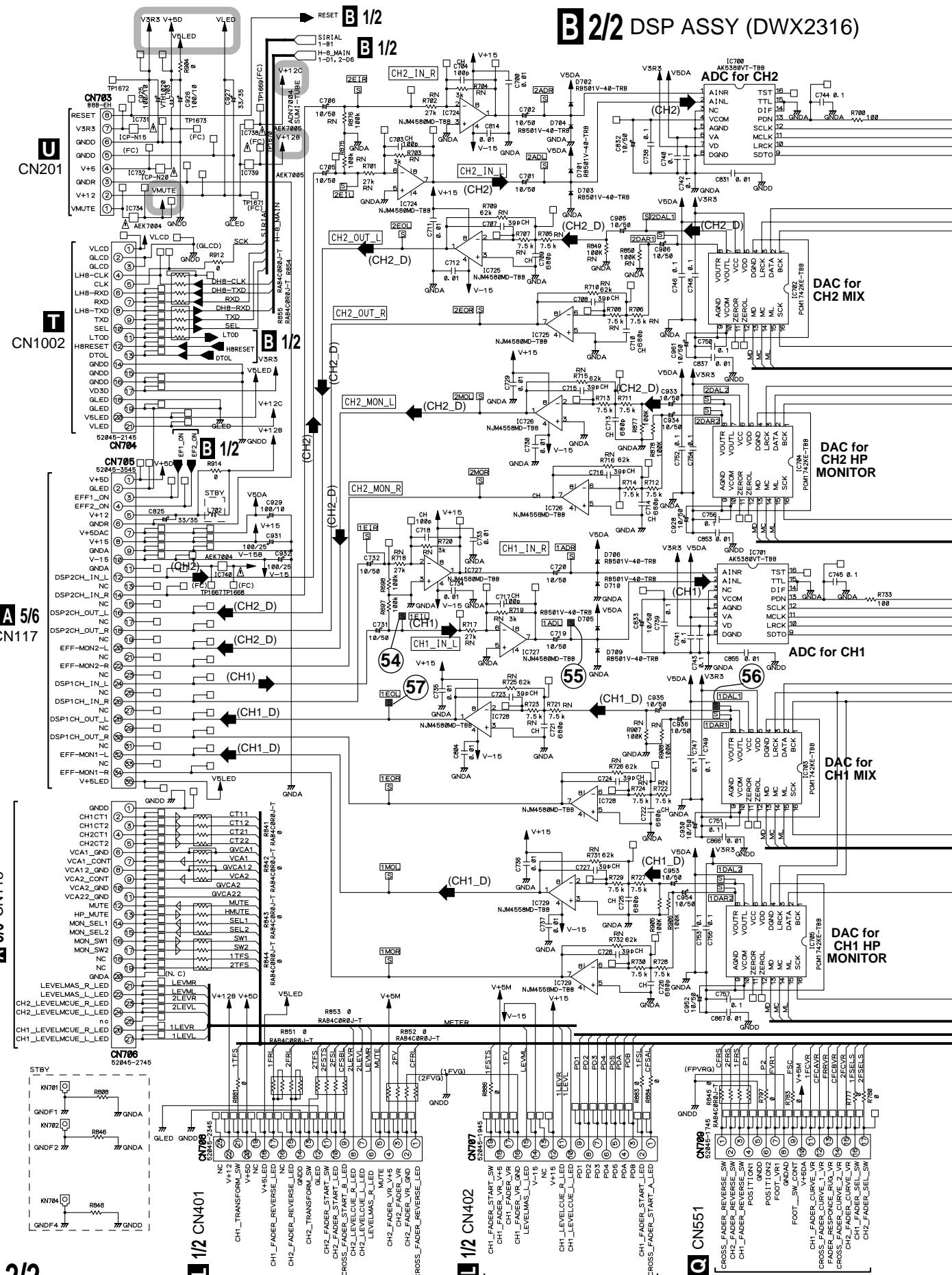


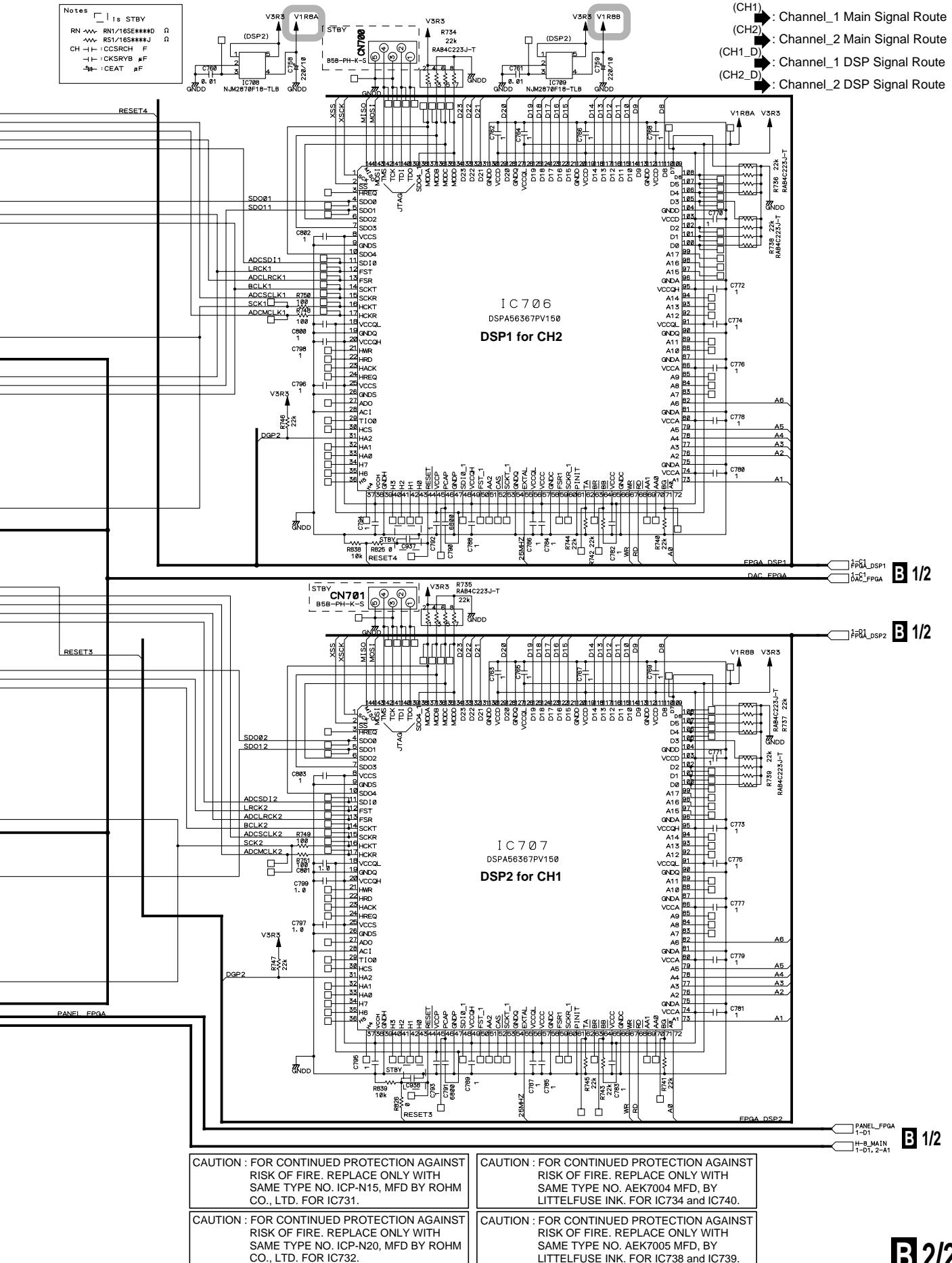
E

### B 1/2



### 3.10 DSP ASSY (2/2)

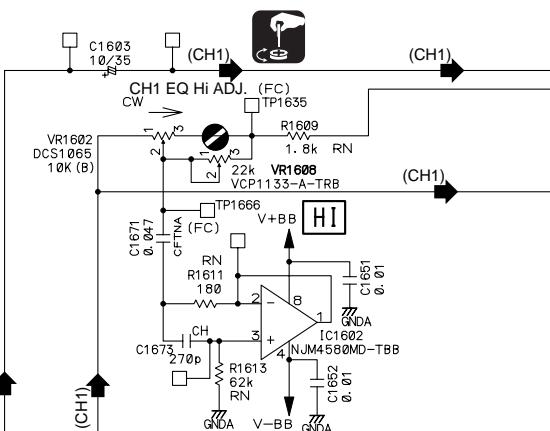
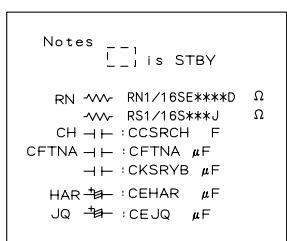




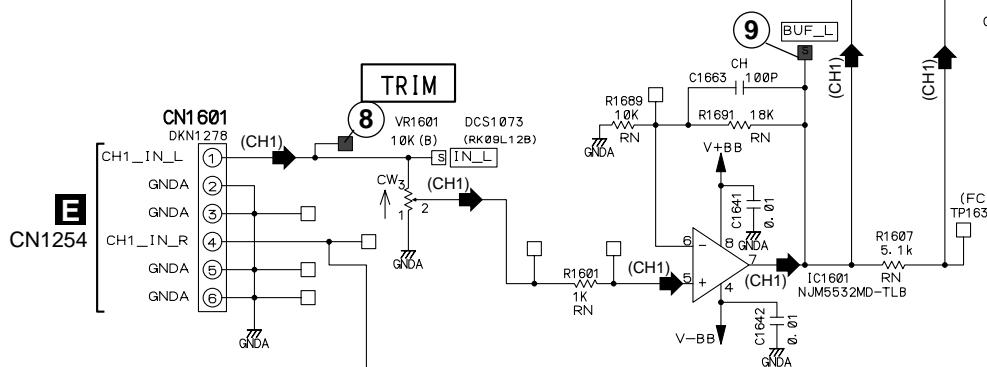
### 3.11 C1EQ ASSY (1/2)

A

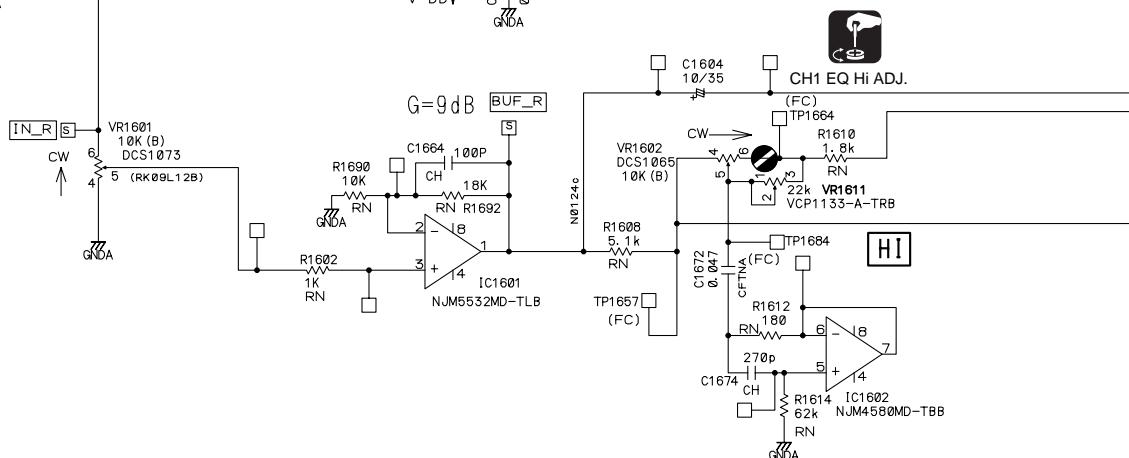
#### C 1/2 C1EQ ASSY (DWS1326)



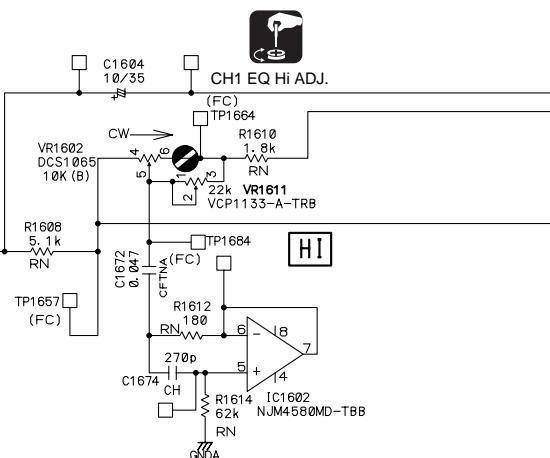
B



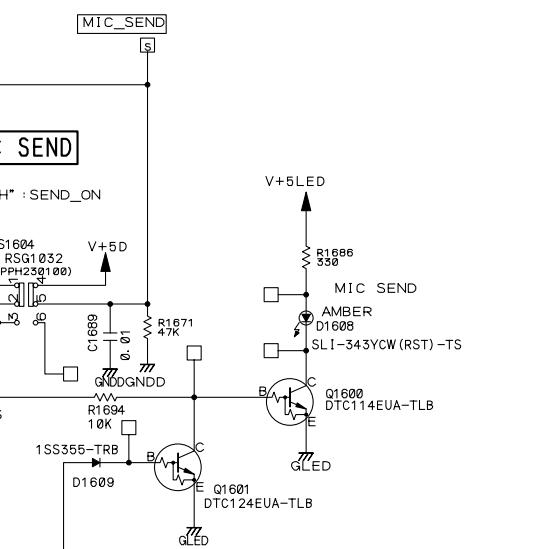
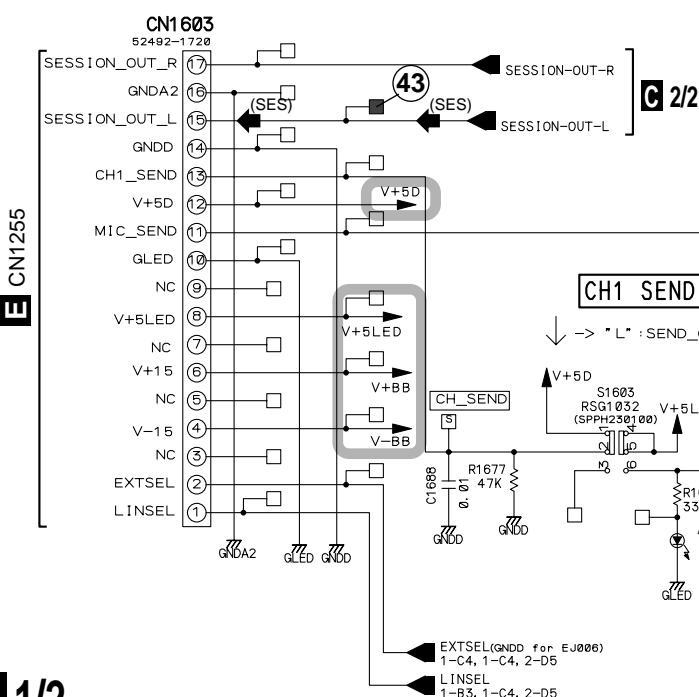
C



D

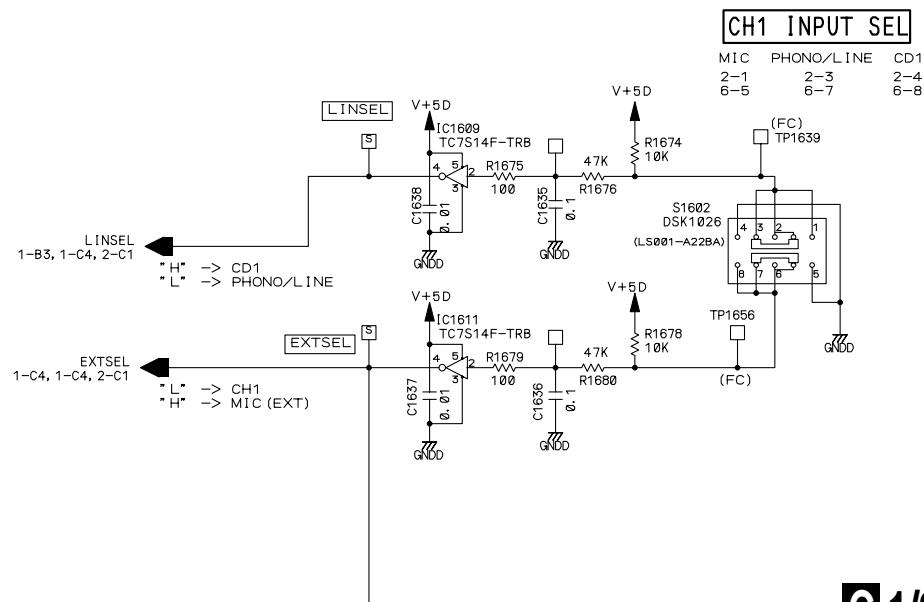
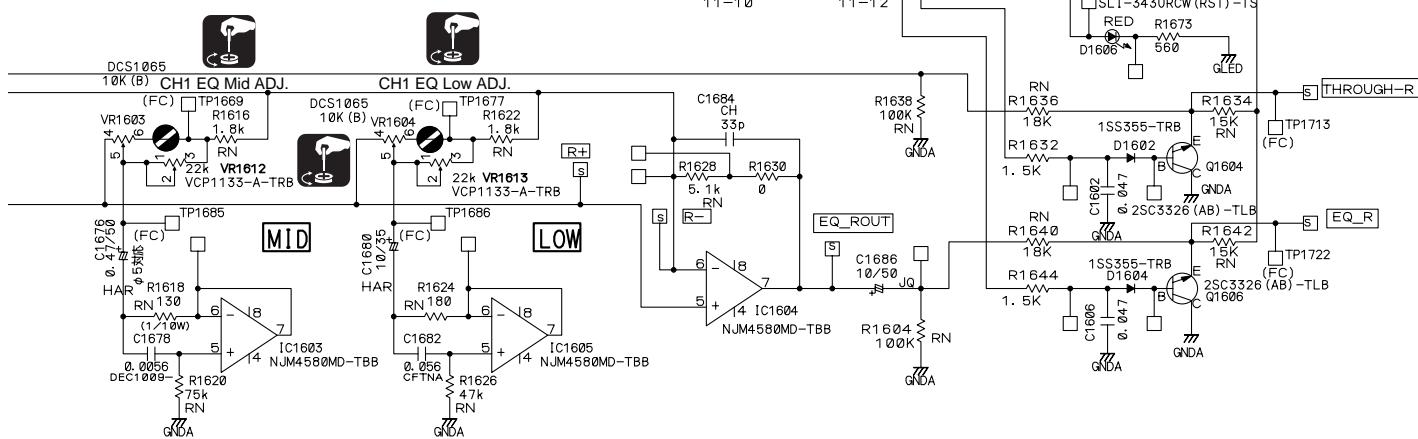
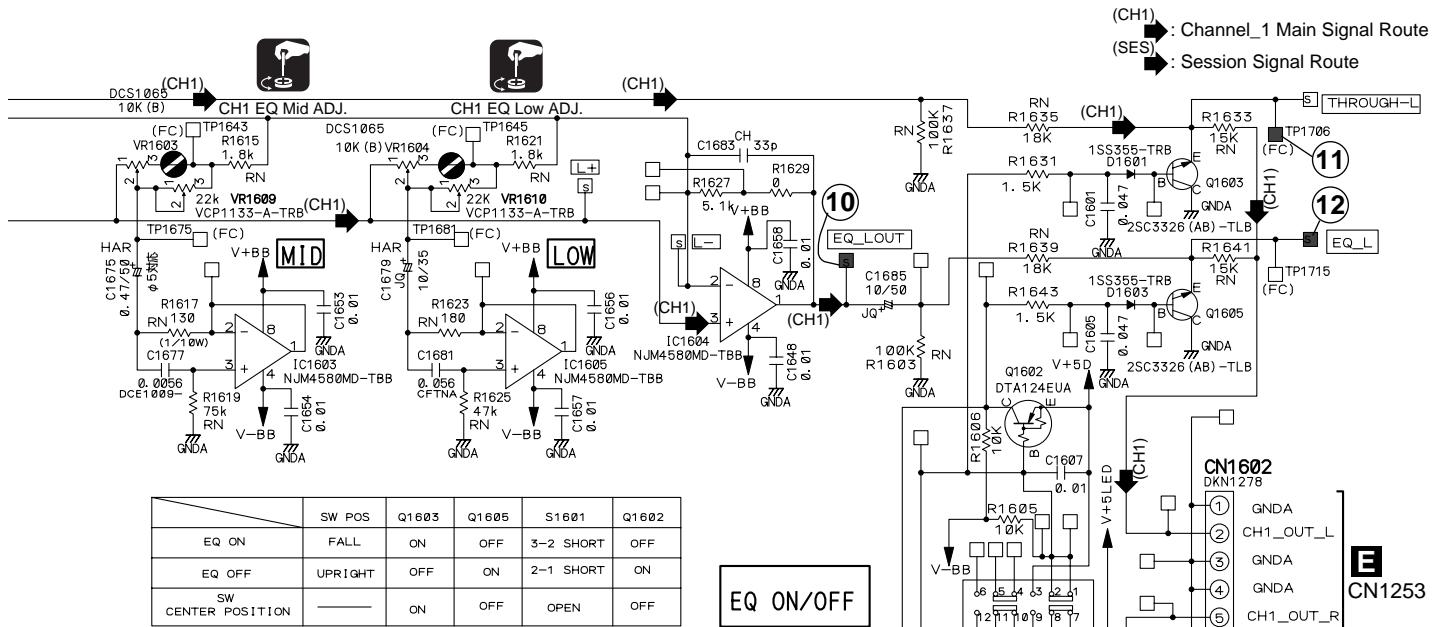


E



F

#### C 1/2



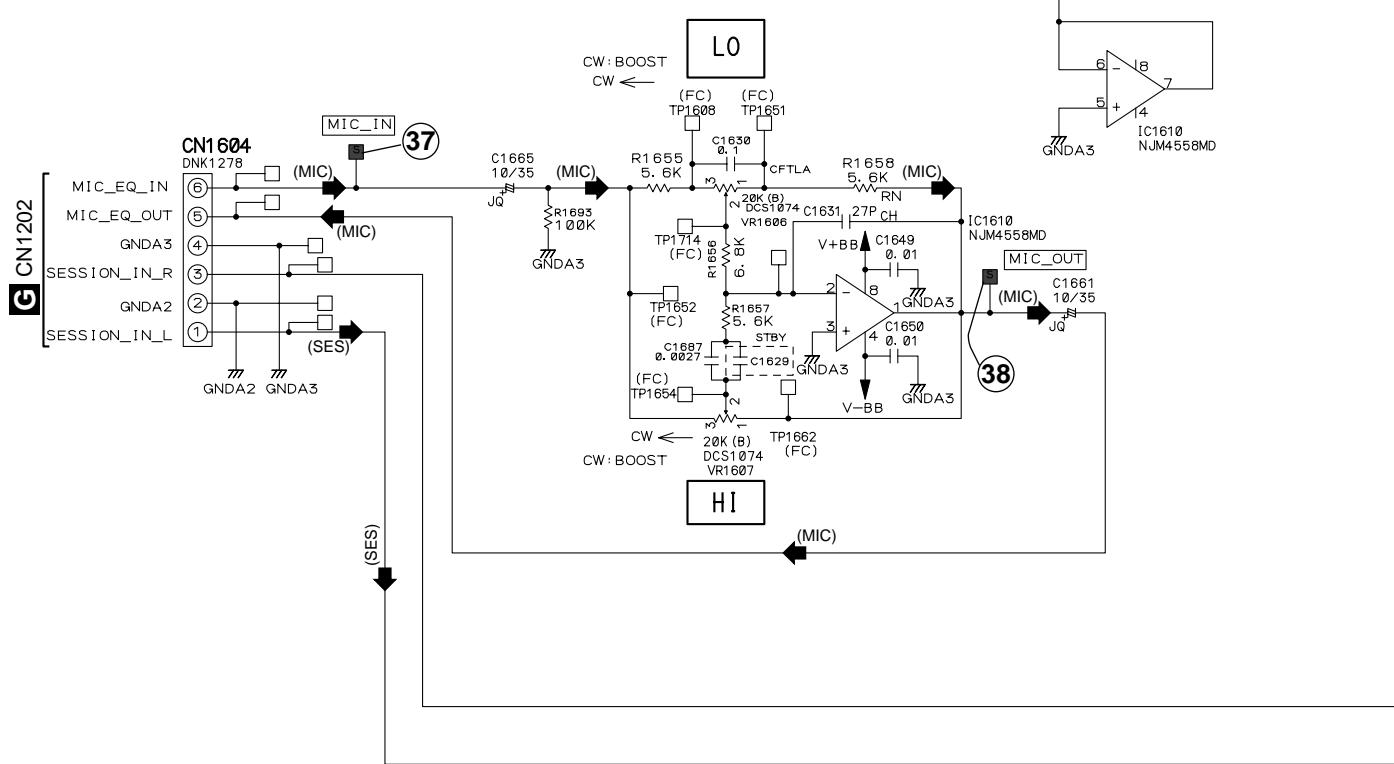
### 3.12 C1EQ ASSY (2/2)

A

#### C 2/2 C1EQ ASSY (DWS1326)

(MIC) → : Microphone Signal Route  
 (SES) → : Session Signal Route

B



C

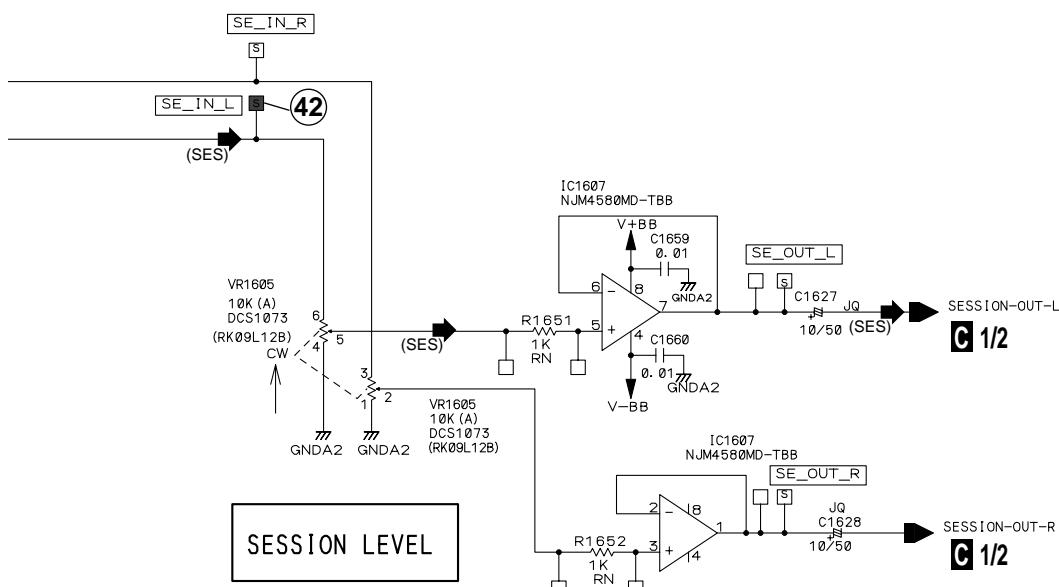
D

E

F

#### C 2/2

Notes  
 - -  
 \_ \_ is STBY  
 RN ~VV~ RN1/16SE\*\*\*\*D  $\Omega$   
 ~VV~ RS1/16S\*\*\*J  $\Omega$   
 CH -I-:CCSRCH F  
 CFTLA -I-:CFTLA  $\mu$ F  
 -I-:CKSRYB  $\mu$ F  
 JQ -I-:CEJQ  $\mu$ F



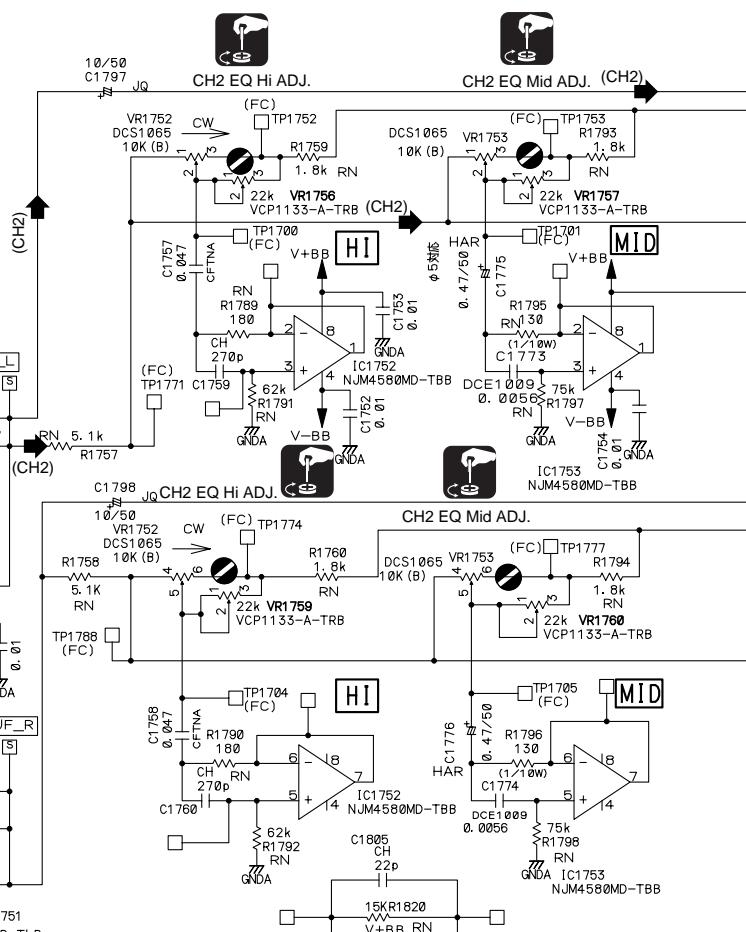
### 3.13 C2EQ ASSY

A

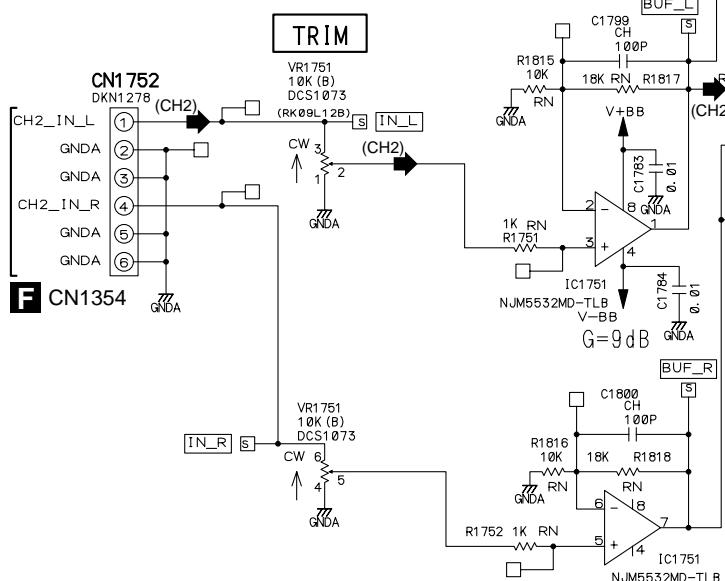
#### D C2EQ ASSY (DWS1327)

**Notes**

- is STBY
- RN ~~~ RN1/16S\*\*\*D  $\Omega$
- ~~~ RS1/16S\*\*\*J  $\Omega$
- CFTNA — : CFTNA  $\mu$ F
- CH — : CCSRCH F
- : CKSRYB  $\mu$ F
- JQ — : CEJQ  $\mu$ F
- HAR — : CEHAR  $\mu$ F

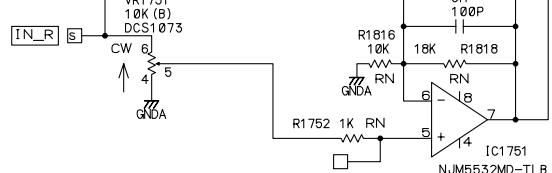


B

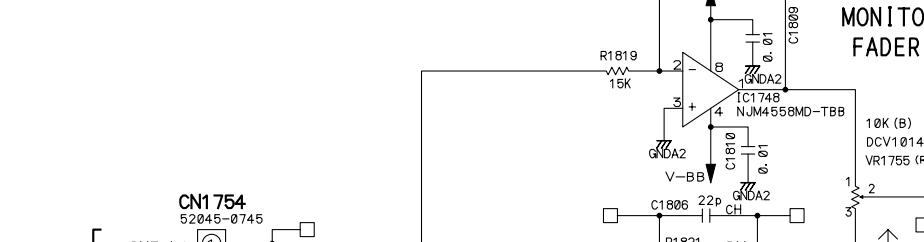


C

#### F CN1355

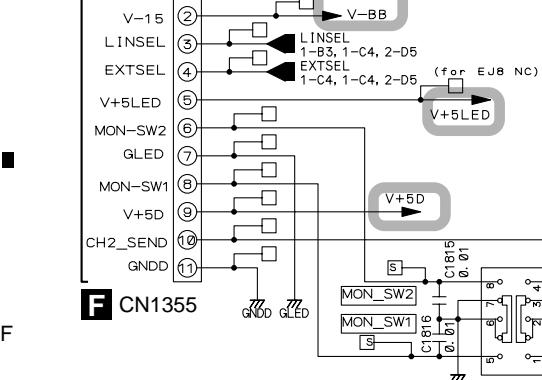


D



E

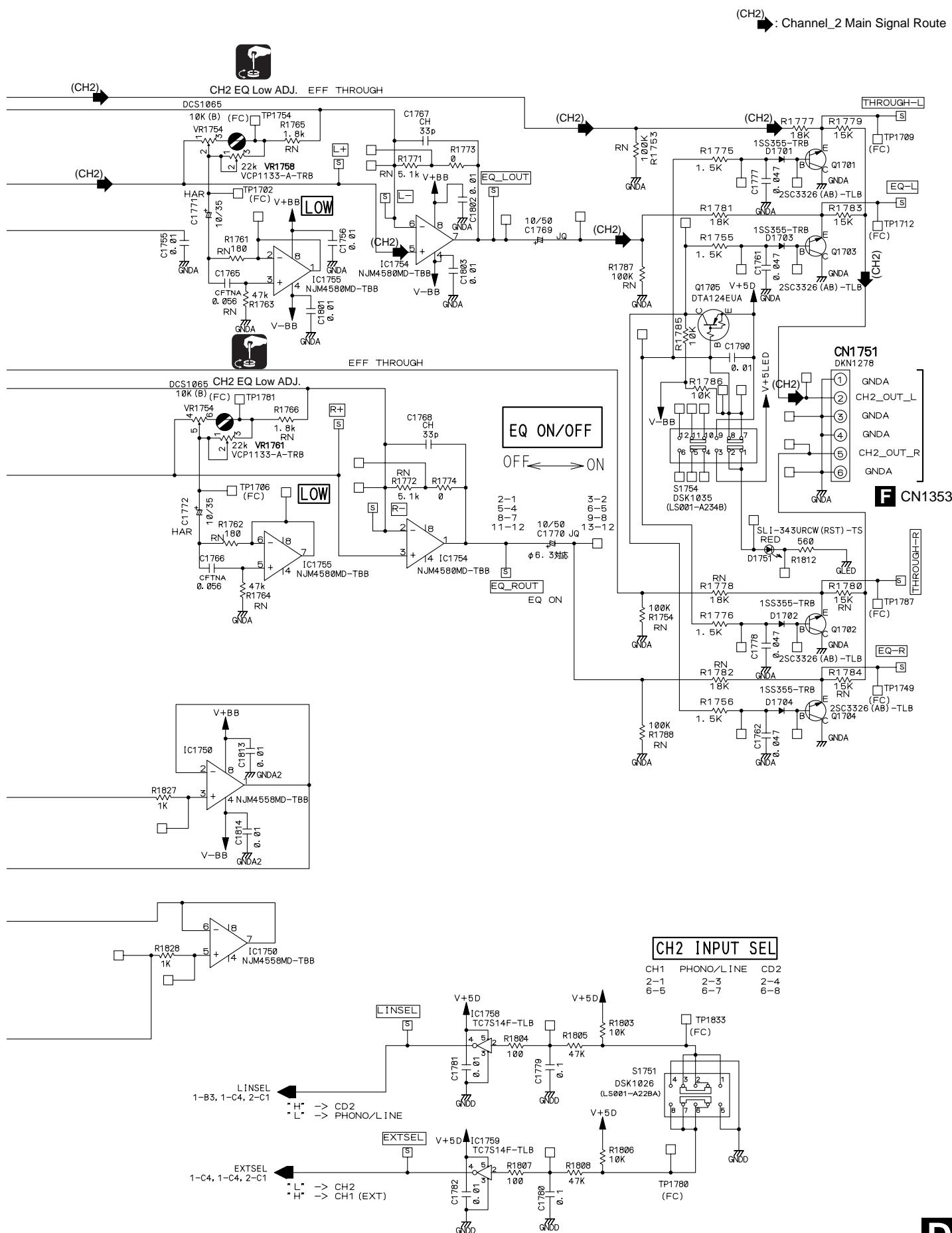
#### E CN1753



F

#### F CN1355

#### D MONITOR SELECT

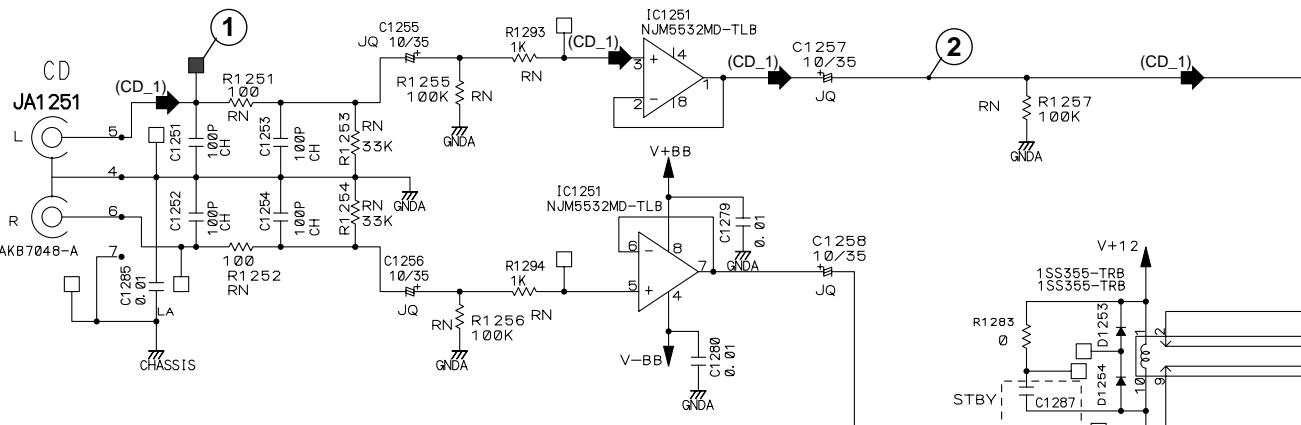


### 3.14 C1BF ASSY

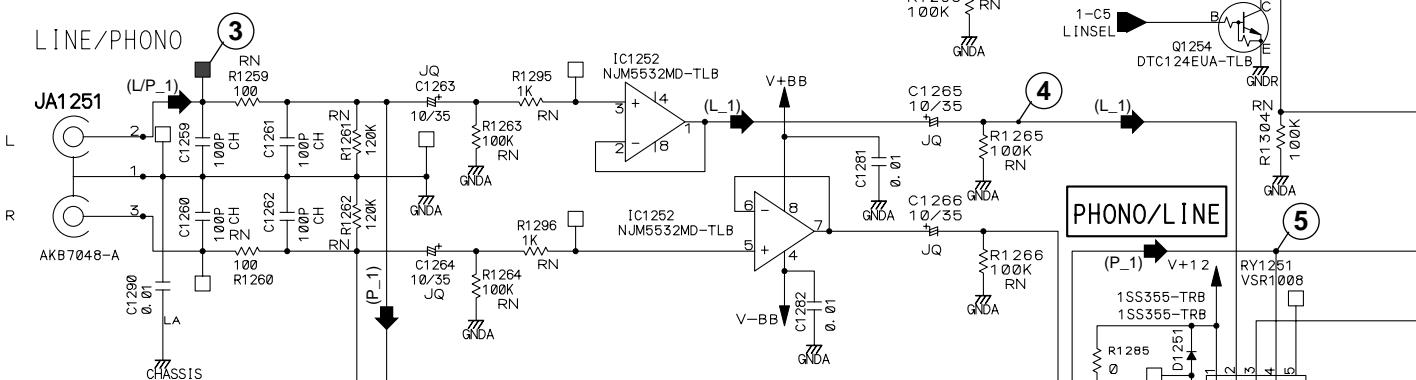
A

#### E C1BF ASSY (DWS1328)

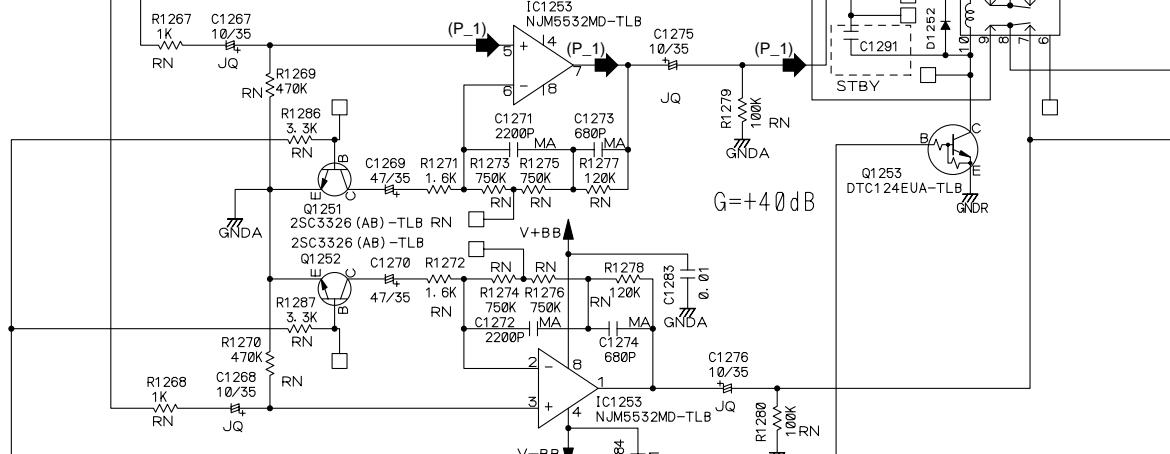
B



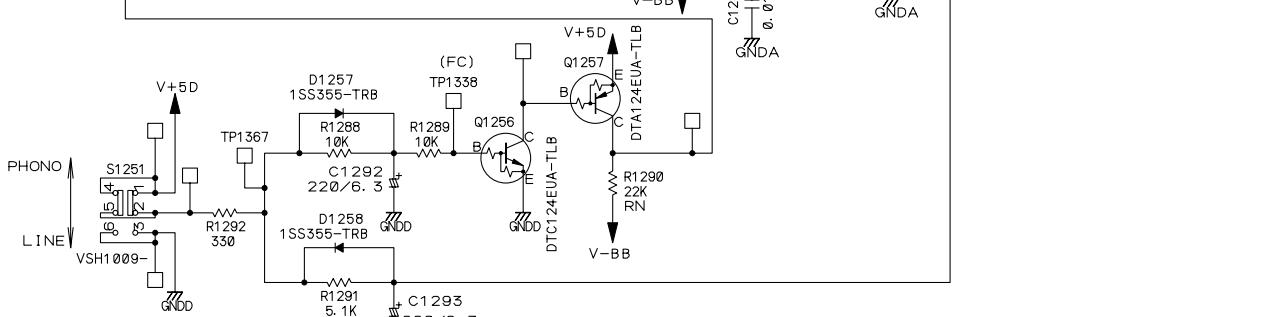
C



D

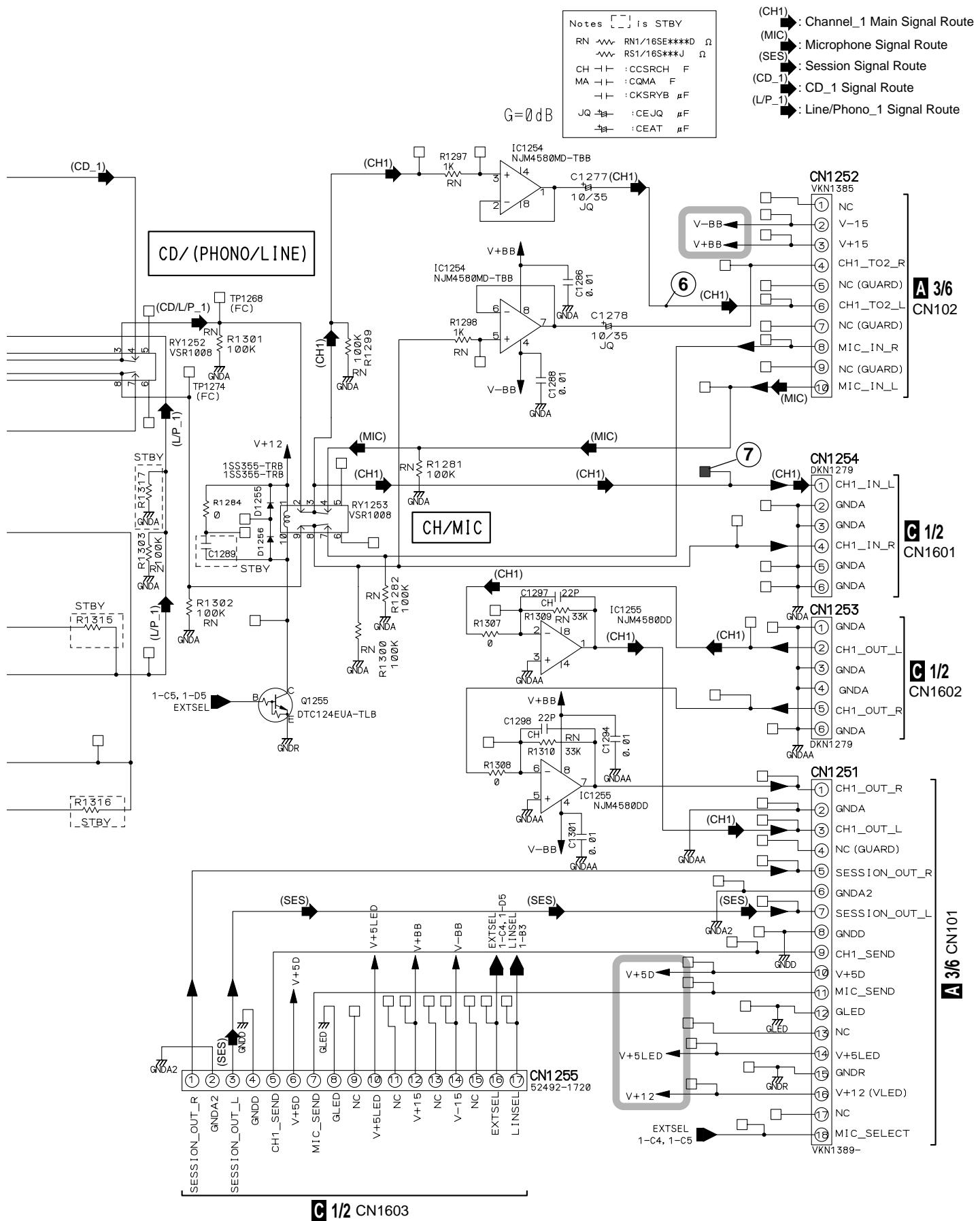


E



F

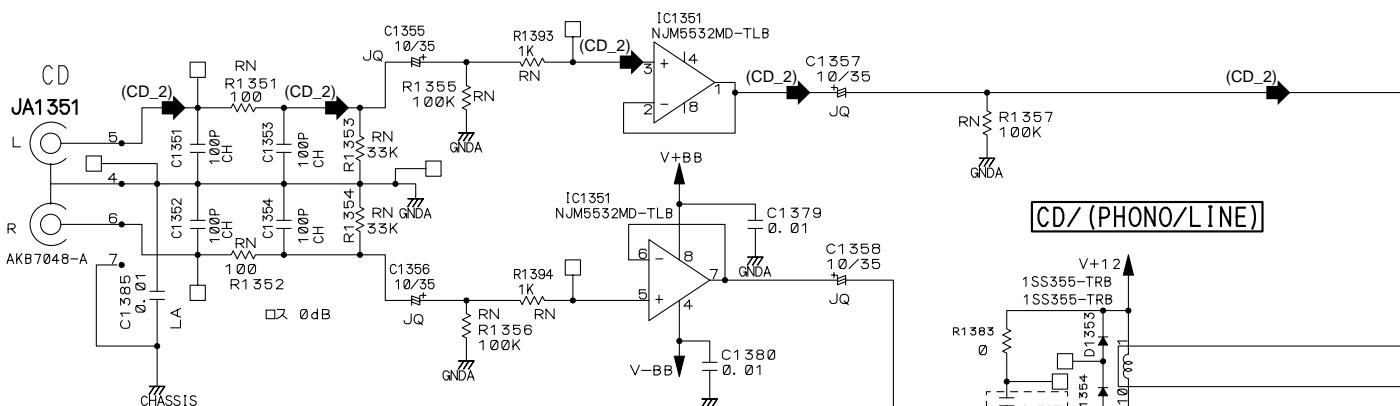
#### E



### 3.15 C2BF ASSY

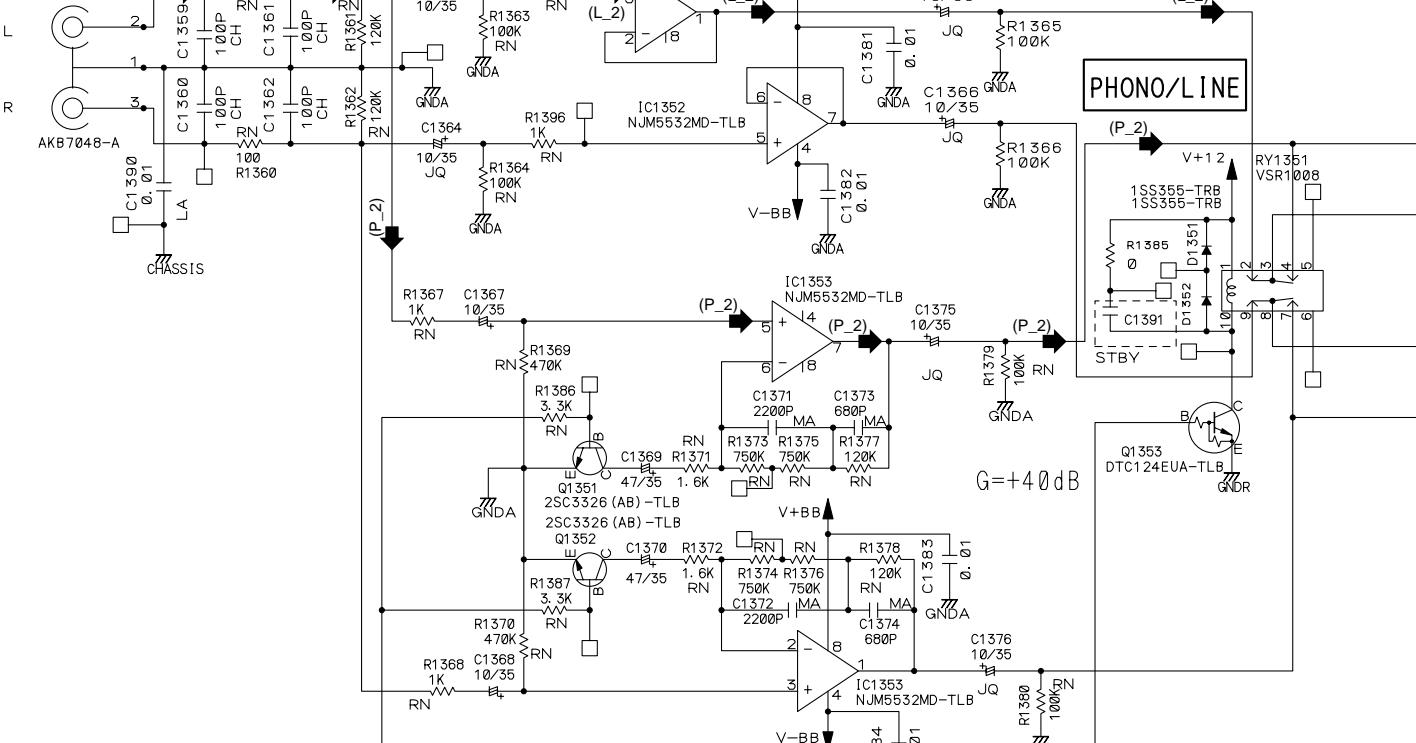
A

#### F C2BF ASSY (DWS1329)

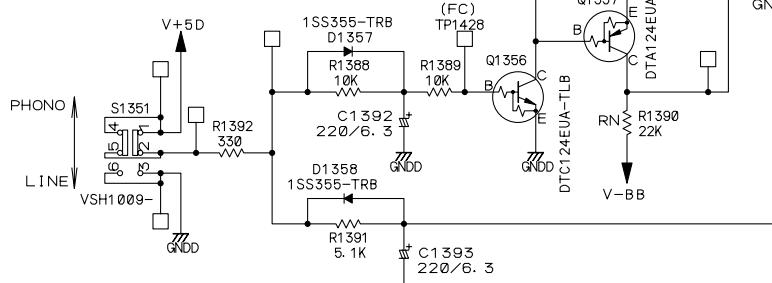


B

#### L LINE/PHONO



D



E

F

46

1

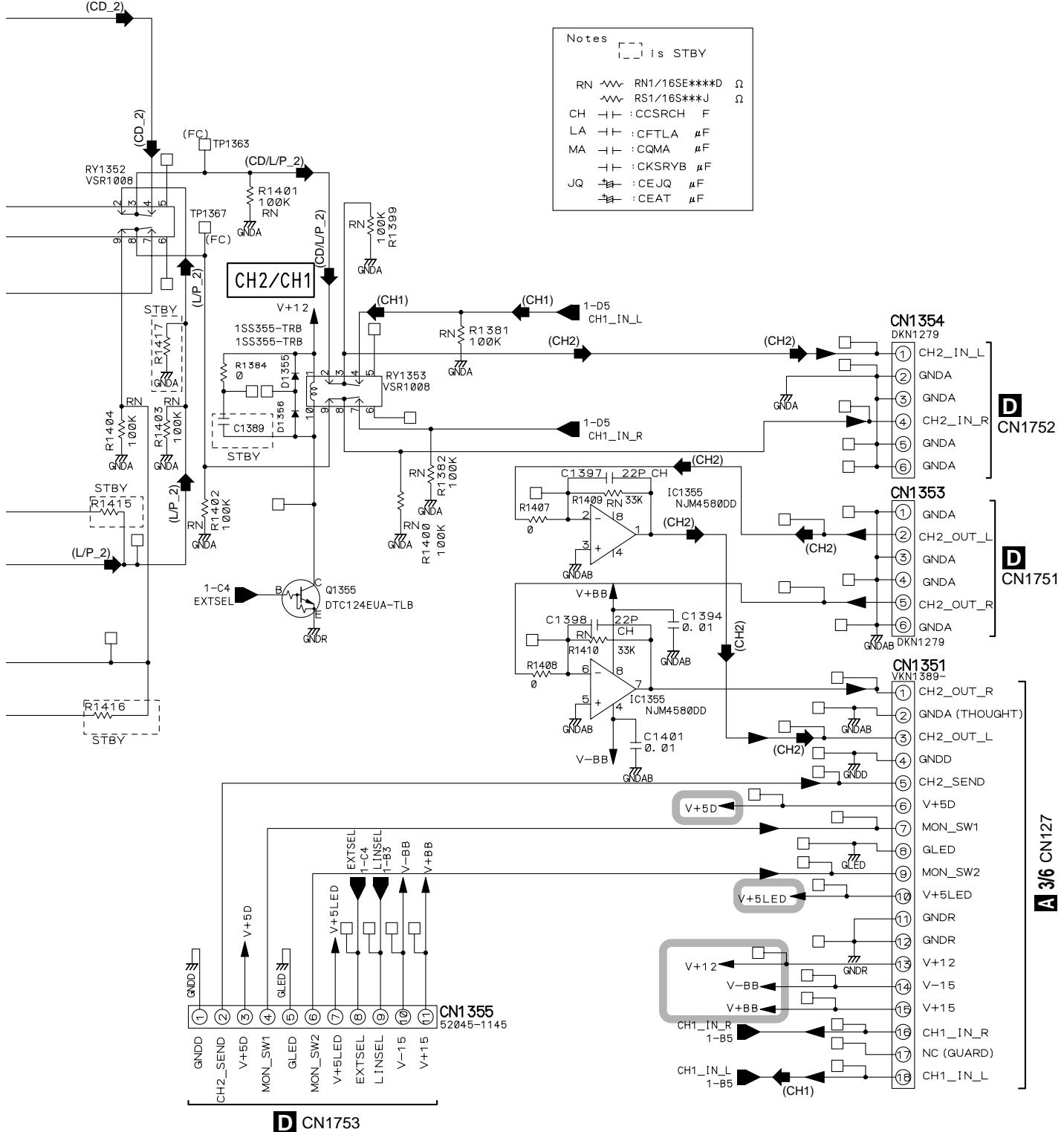
2

3

4

DJM-909

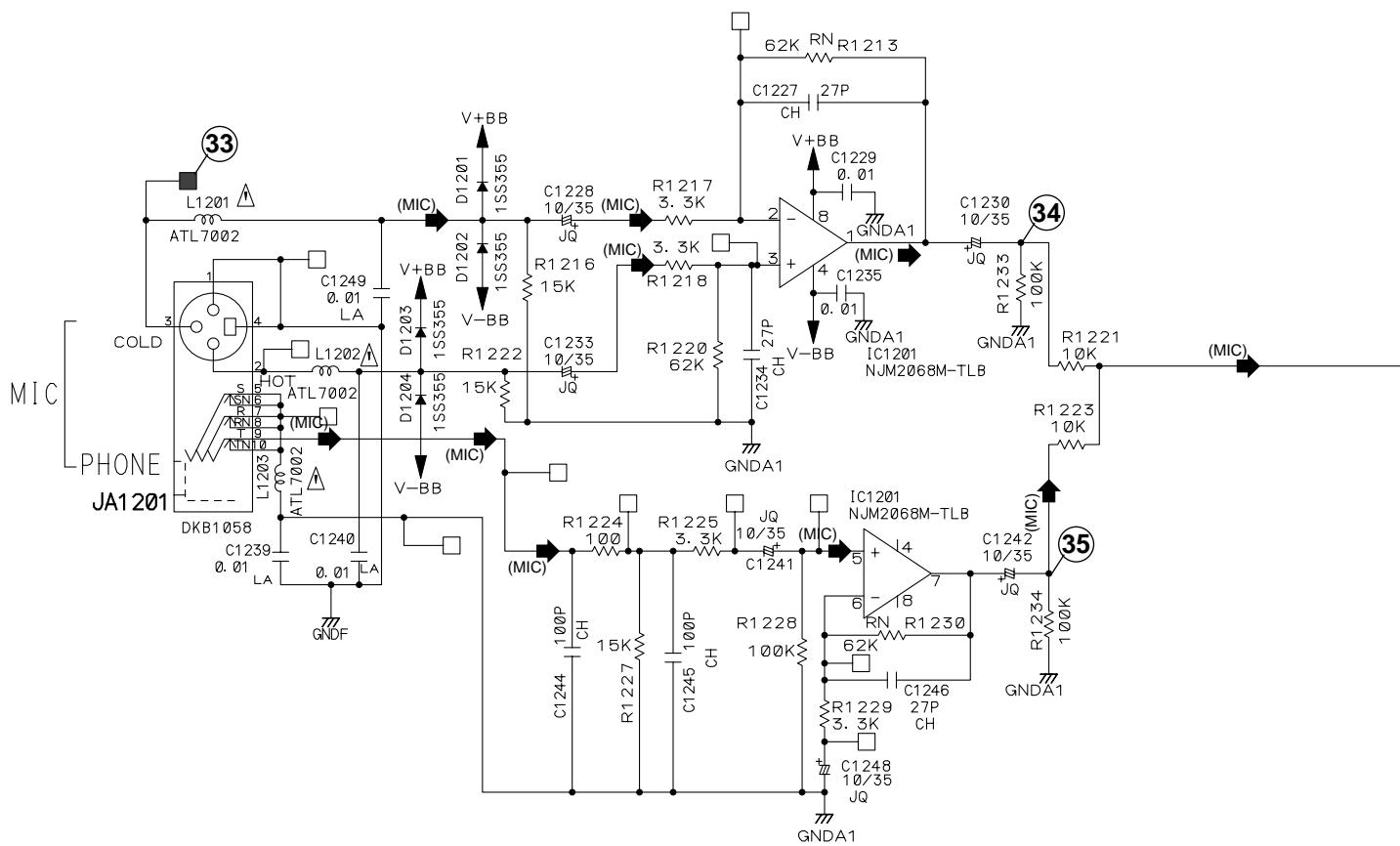
(CH1) : Channel\_1 Main Signal Route  
 (CH2) : Channel\_2 Main Signal Route  
 (CD\_2) : CD\_2 Signal Route  
 (L/P\_2) : Line/Phono\_2 Signal Route



### 3.16 MICB ASSY

A

#### G MICB ASSY (DWX2318)



B

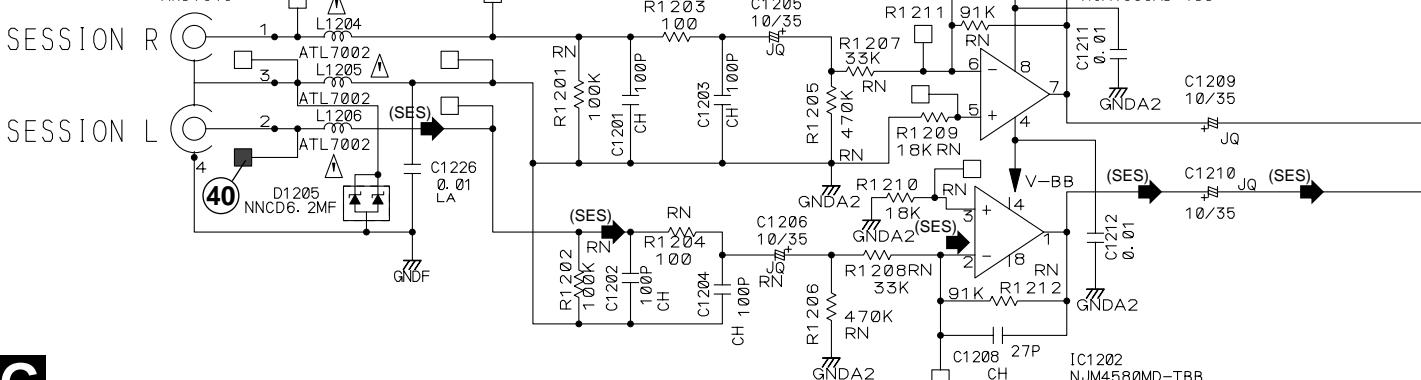
C

D

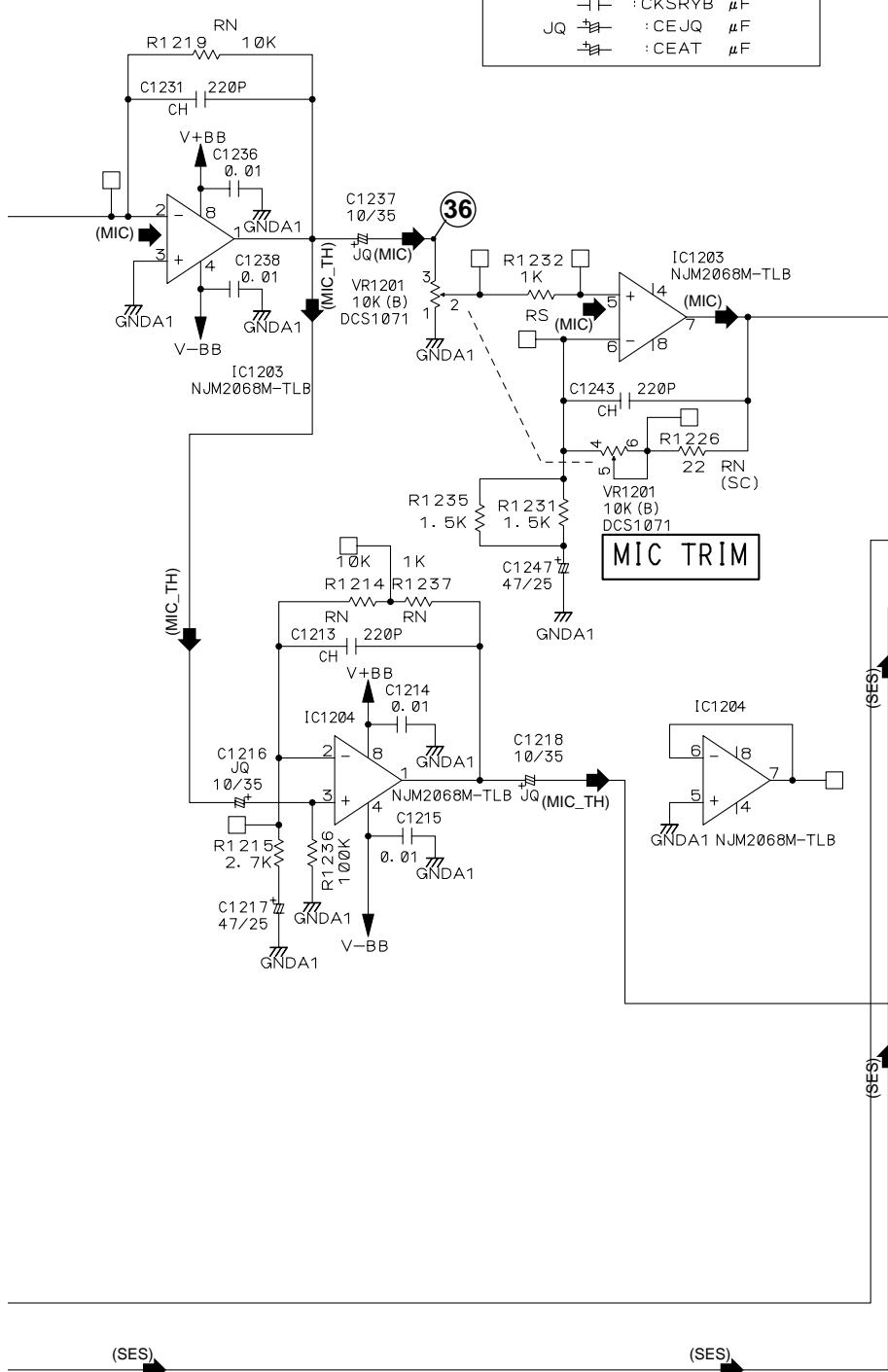
E

F

#### G



(MIC) : Microphone Signal Route  
 (MIC\_TH) : Microphone Through Signal Route  
 (SES) : Session Signal Route



**C 2/2 CN1604**

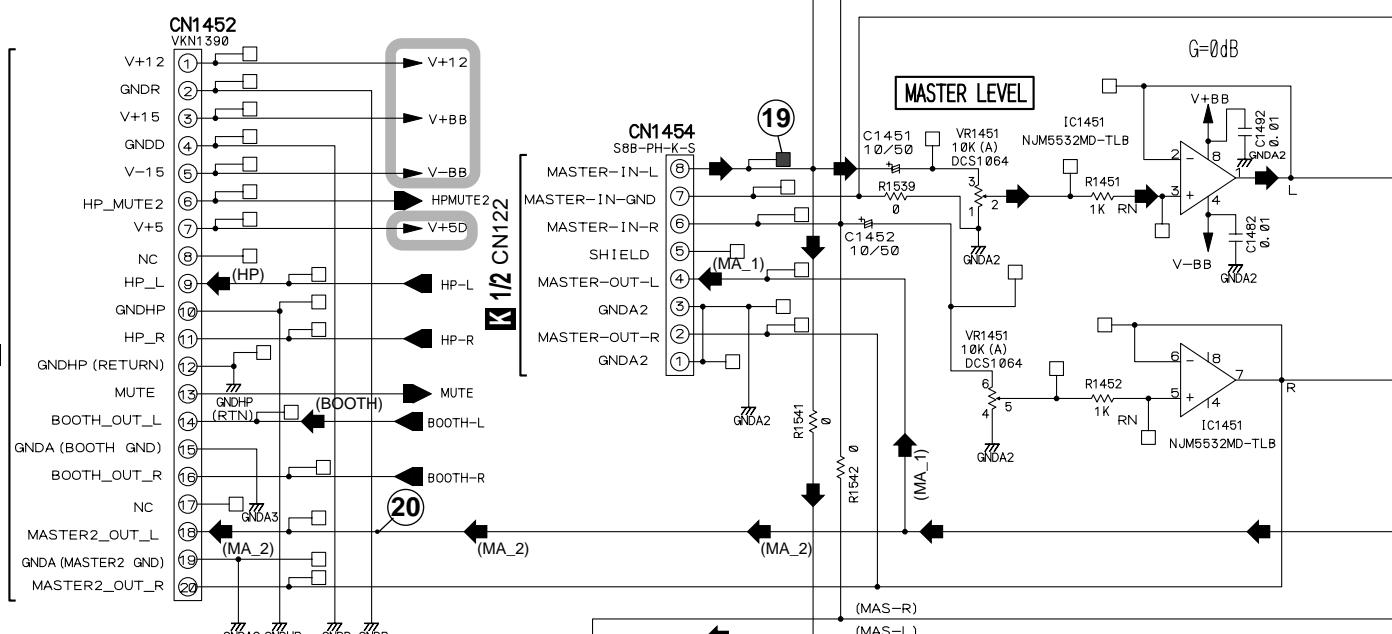
**A 4/6 CN115**

**G**

### 3.17 HPBO ASSY

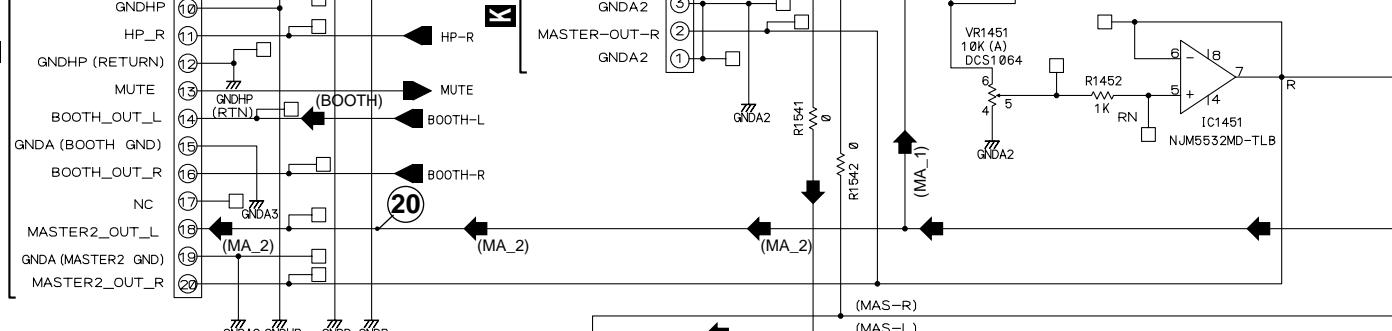
A

**H** HPBO ASSY (DWX2319)



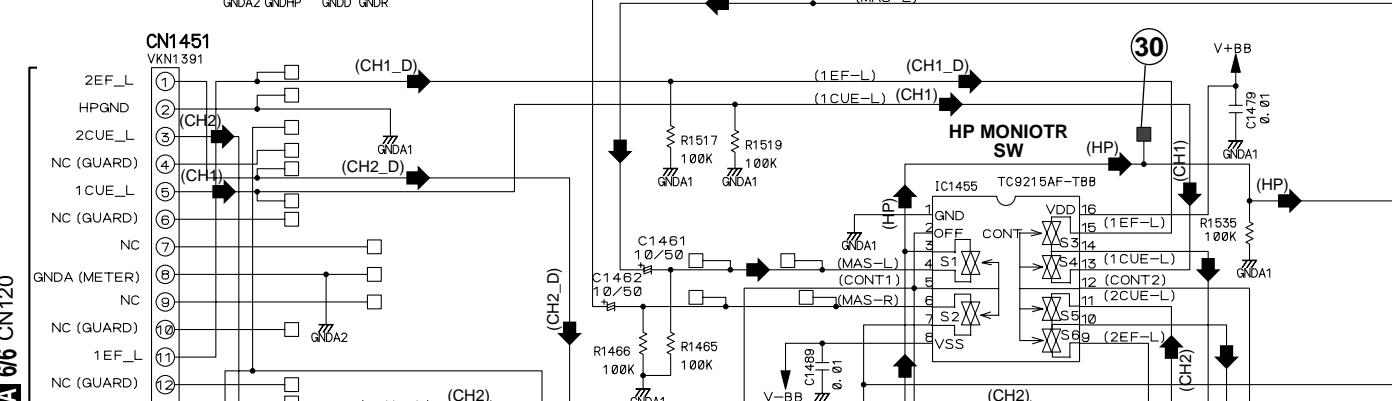
B

**A** 6/6 CN1120



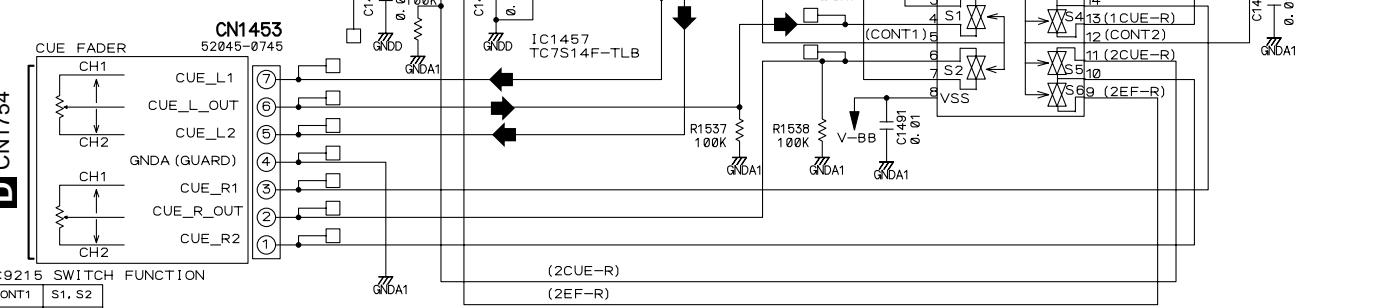
C

**A** 6/6 CN120



D

**D** CN1754



E

T9215 SWITCH FUNCTION

| CONT1 | S1, S2 |
|-------|--------|
| H     | ON     |
| L     | OFF    |

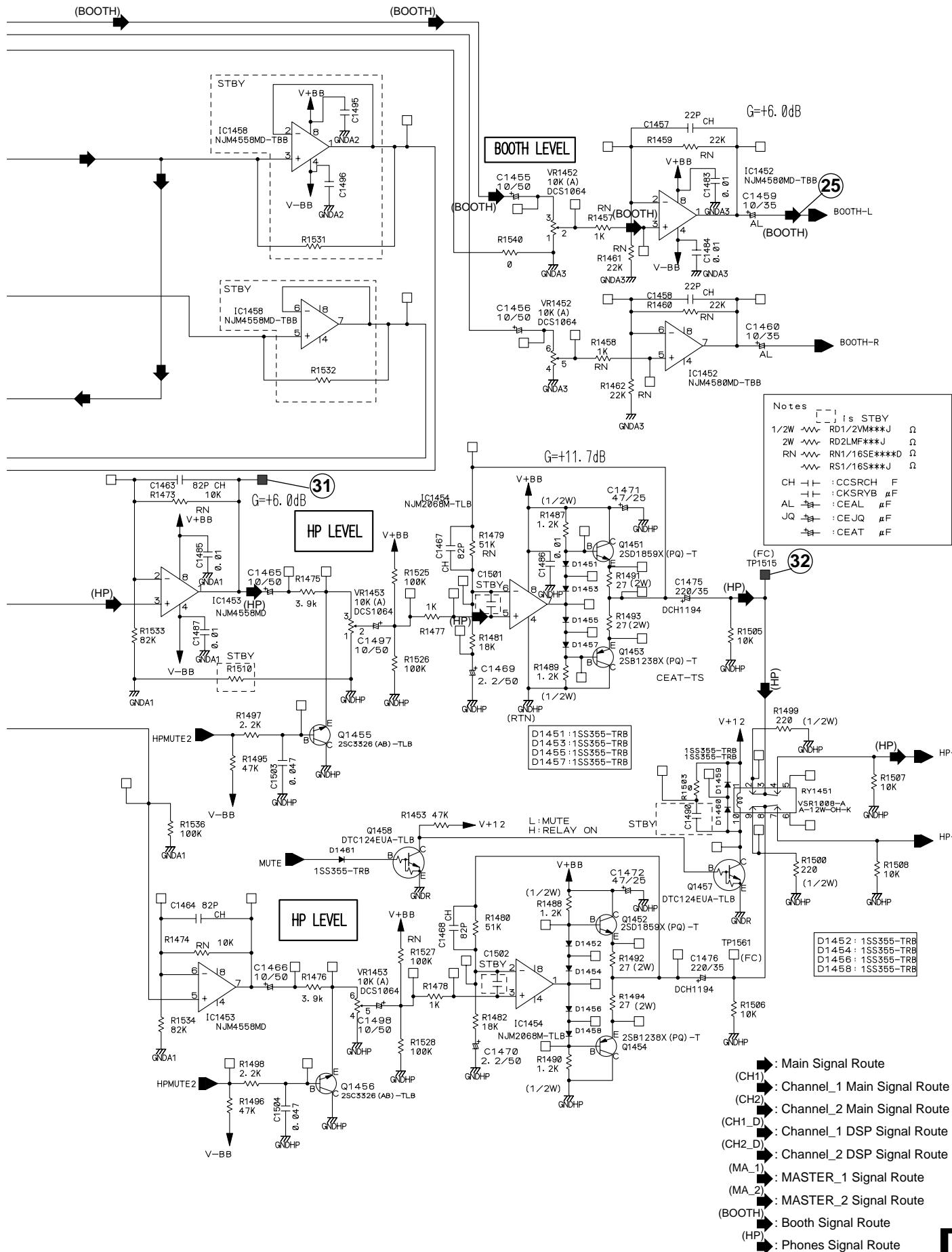
| CONT2 | S3  | S4  | S5  | S6  |
|-------|-----|-----|-----|-----|
| H     | OFF | ON  | ON  | OFF |
| L     | ON  | OFF | OFF | ON  |

|        | IC1455 |    |    |    |    |    | IC1456 |    |    |    |    |    |
|--------|--------|----|----|----|----|----|--------|----|----|----|----|----|
|        | S1     | S2 | S3 | S4 | S5 | S6 | S1     | S2 | S3 | S4 | S5 | S6 |
| MASTER | O      | O  | -  | -  | -  | x  | x      | -  | -  | -  | -  | -  |
| CUE    | x      | x  | x  | o  | o  | x  | o      | o  | x  | o  | x  | o  |
| EFFECT | x      | x  | o  | x  | x  | o  | o      | o  | x  | x  | x  | o  |

| MICOM. CONTROL | MON-SEL1 | MON-SEL2 |
|----------------|----------|----------|
| MASTER         | H        | H        |
| CUE            | L        | H        |
| EFFECT         | L        | L        |

**H**

50

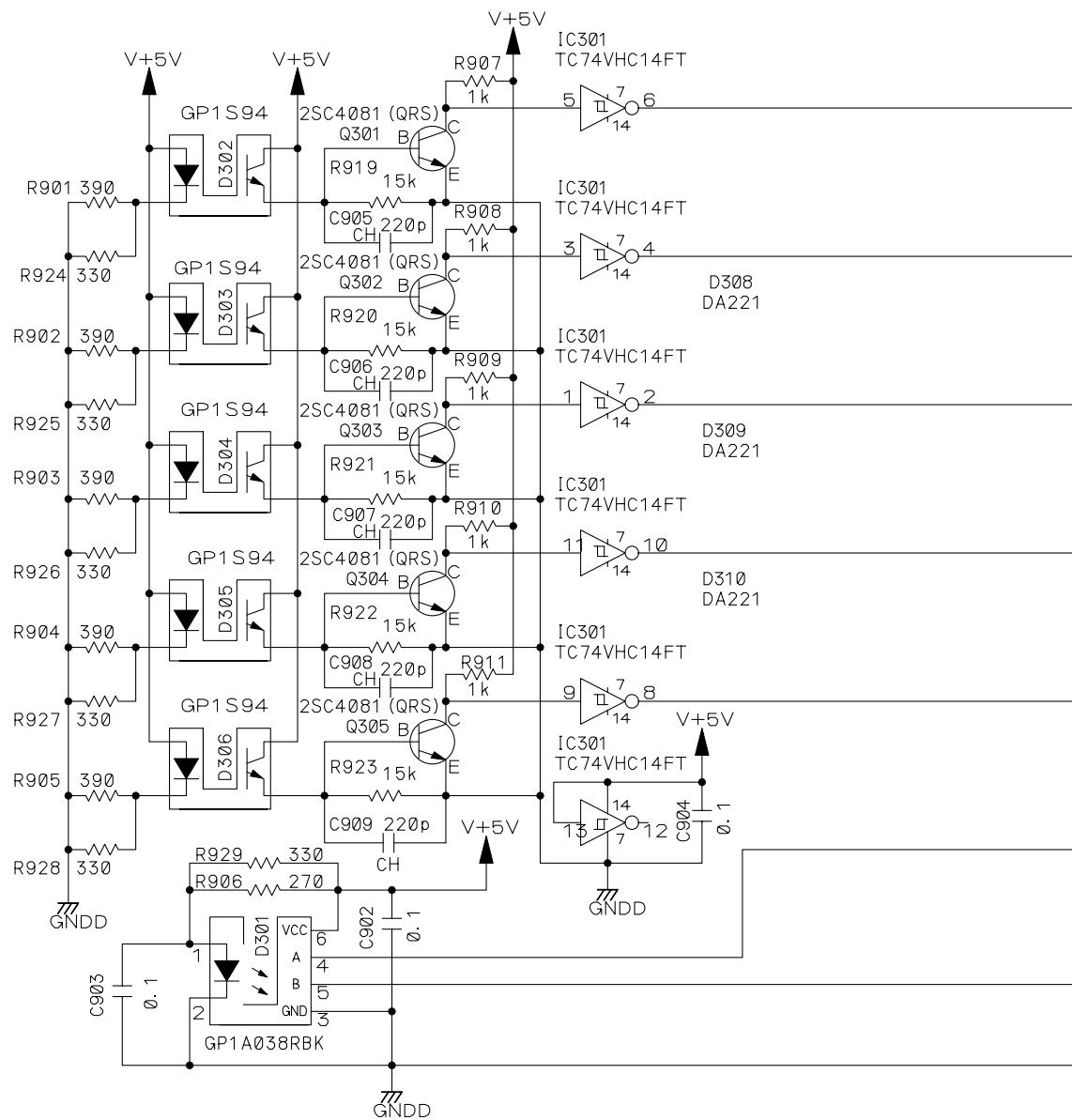


### 3.18 FDVR ASSY

A

#### I FDVR ASSY (DWX2320)

B

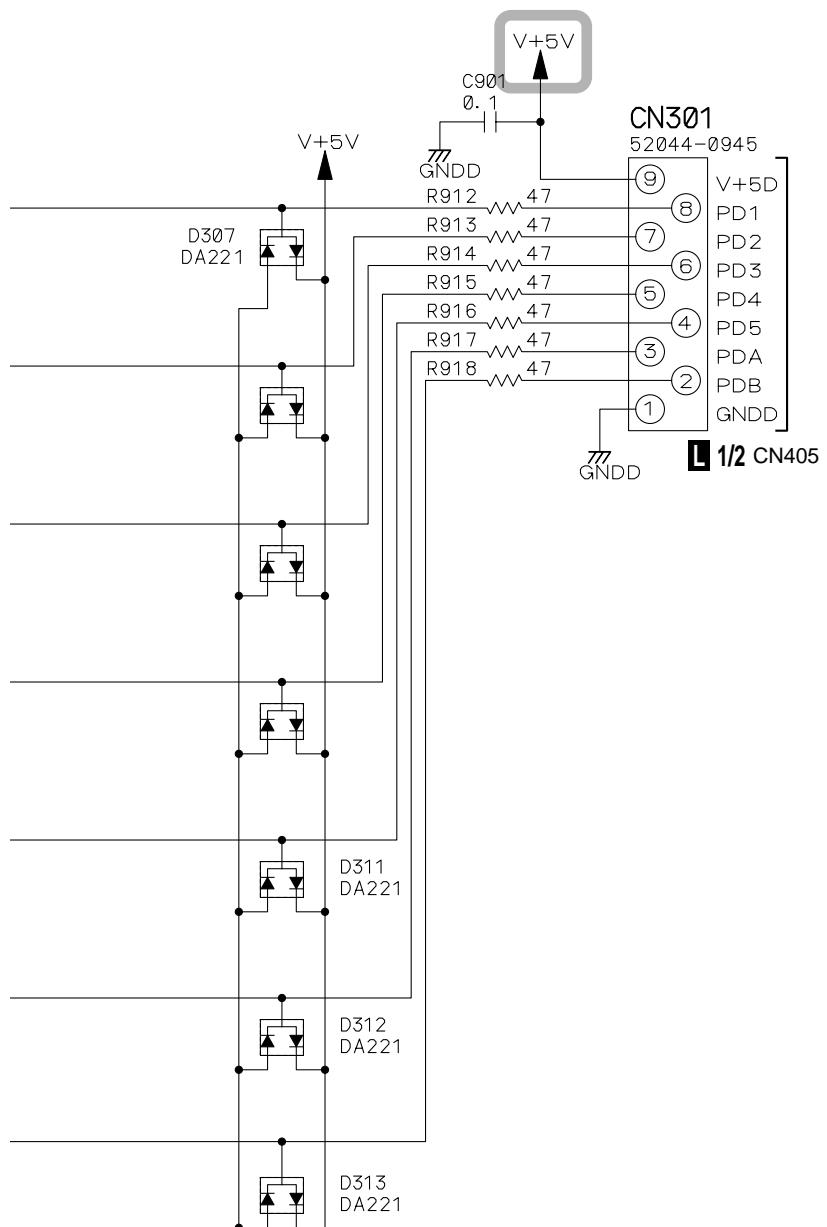


Notes

- [ ] is STBY
- ~-- RS1/16\*\*\*J  $\Omega$
- CH -+ : CCSRCH F
- + : CKSRYB  $\mu$ F

F

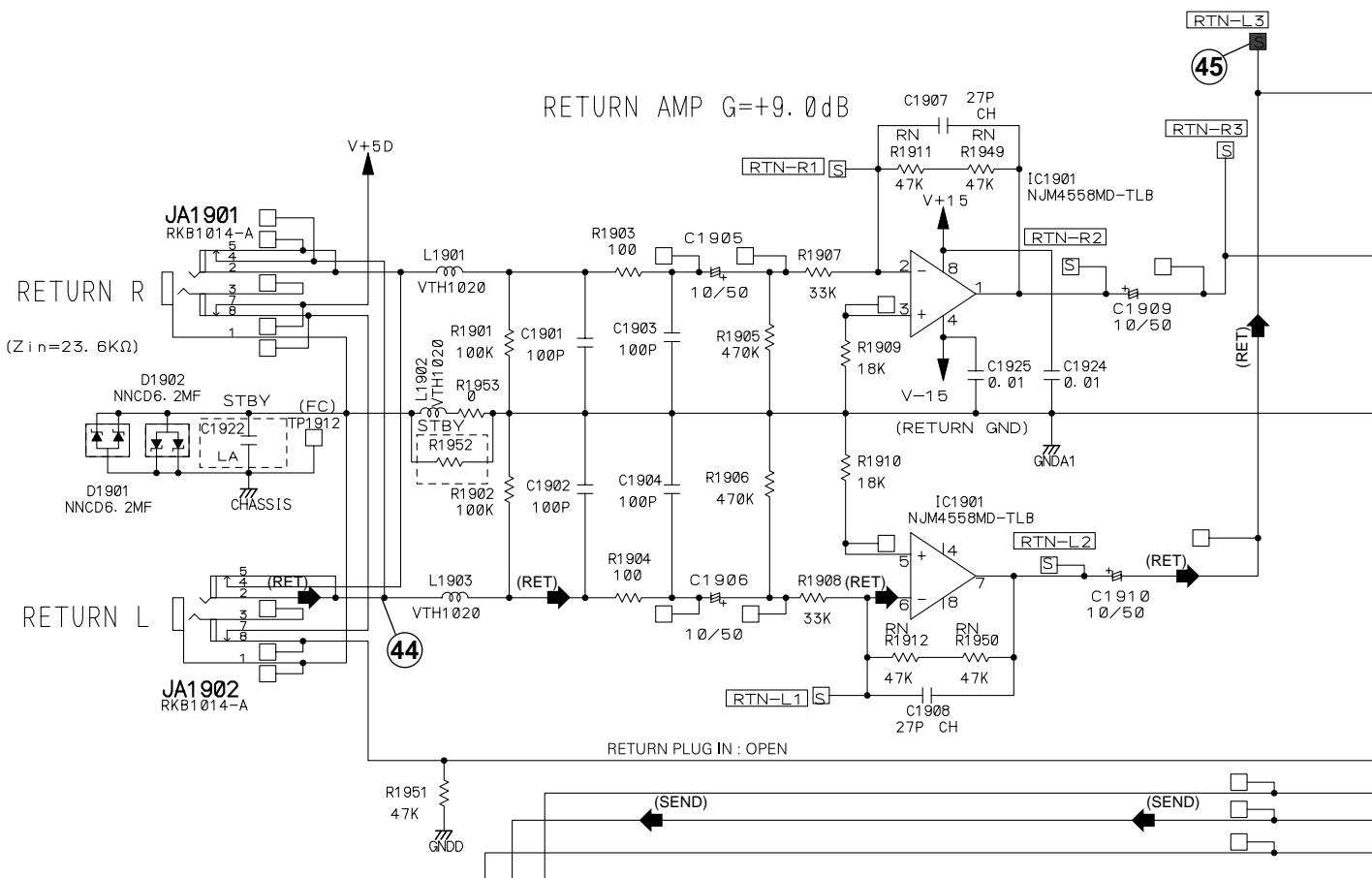




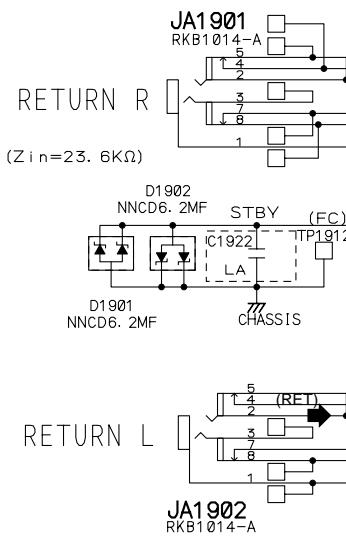
### 3.19 SDRT ASSY

A

#### J SDRT ASSY (DWX2321)



B



C

D

TC9215 SWITCH FUNCTION

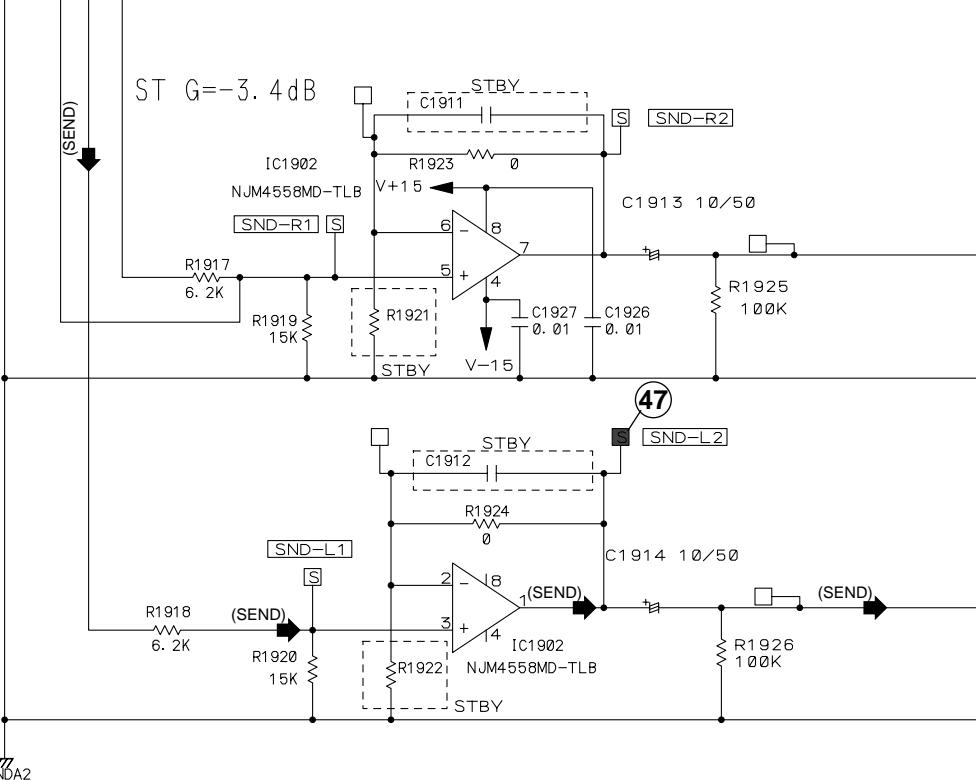
| CONT1 | S1, S2 |
|-------|--------|
| H     | ON     |
| L     | OFF    |

| CONT2 | S3  | S4  | S5  | S6  |
|-------|-----|-----|-----|-----|
| H     | OFF | ON  | ON  | OFF |
| L     | ON  | OFF | OFF | ON  |

E

Notes  
--- is STBY

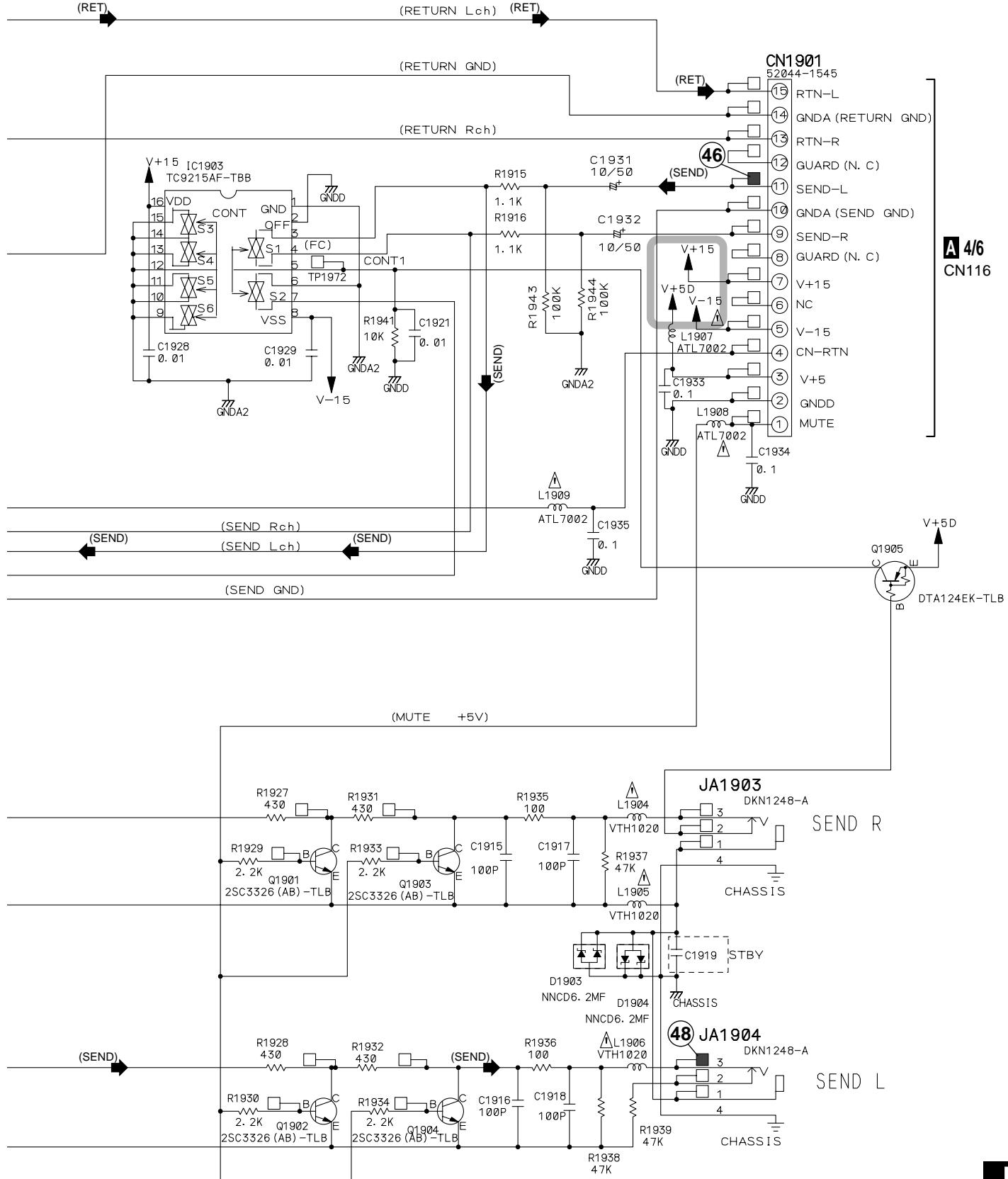
RN ~~~ RN1/16SE\*\*\*\*D      Ω  
~~~ RS1/16S\*\*\*J      Ω  
YB --- : SKSRYB μF
CH --- : CCSRCH F
--- : CKSRYB μF
--- : CEAT μF



F

J

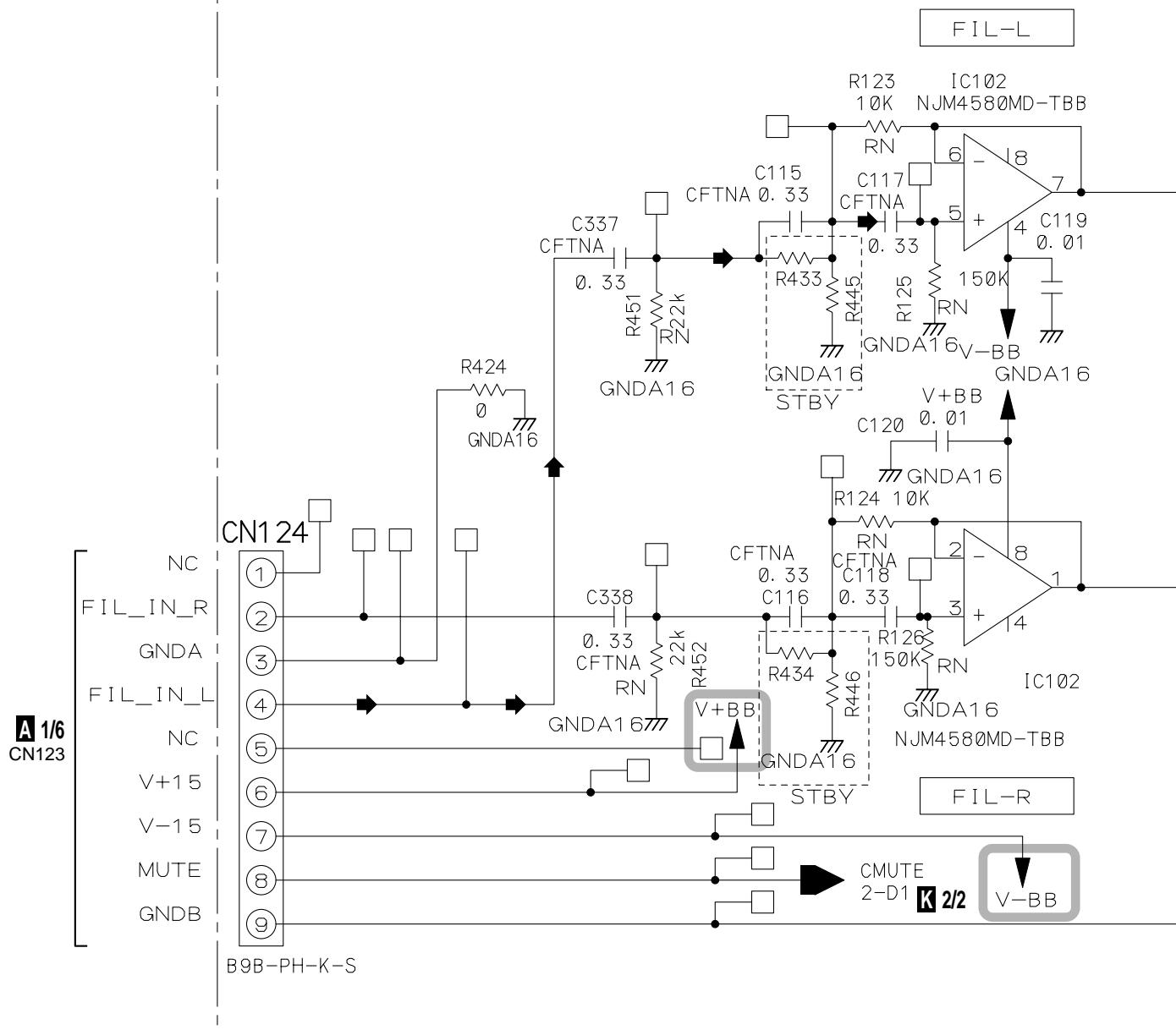
(SEND) → : Send Signal Route
 (RET) ← : Return Signal Route



3.20 XLR ASSY (1/2)

A **K 1/2** XLR ASSY (DWX2322)

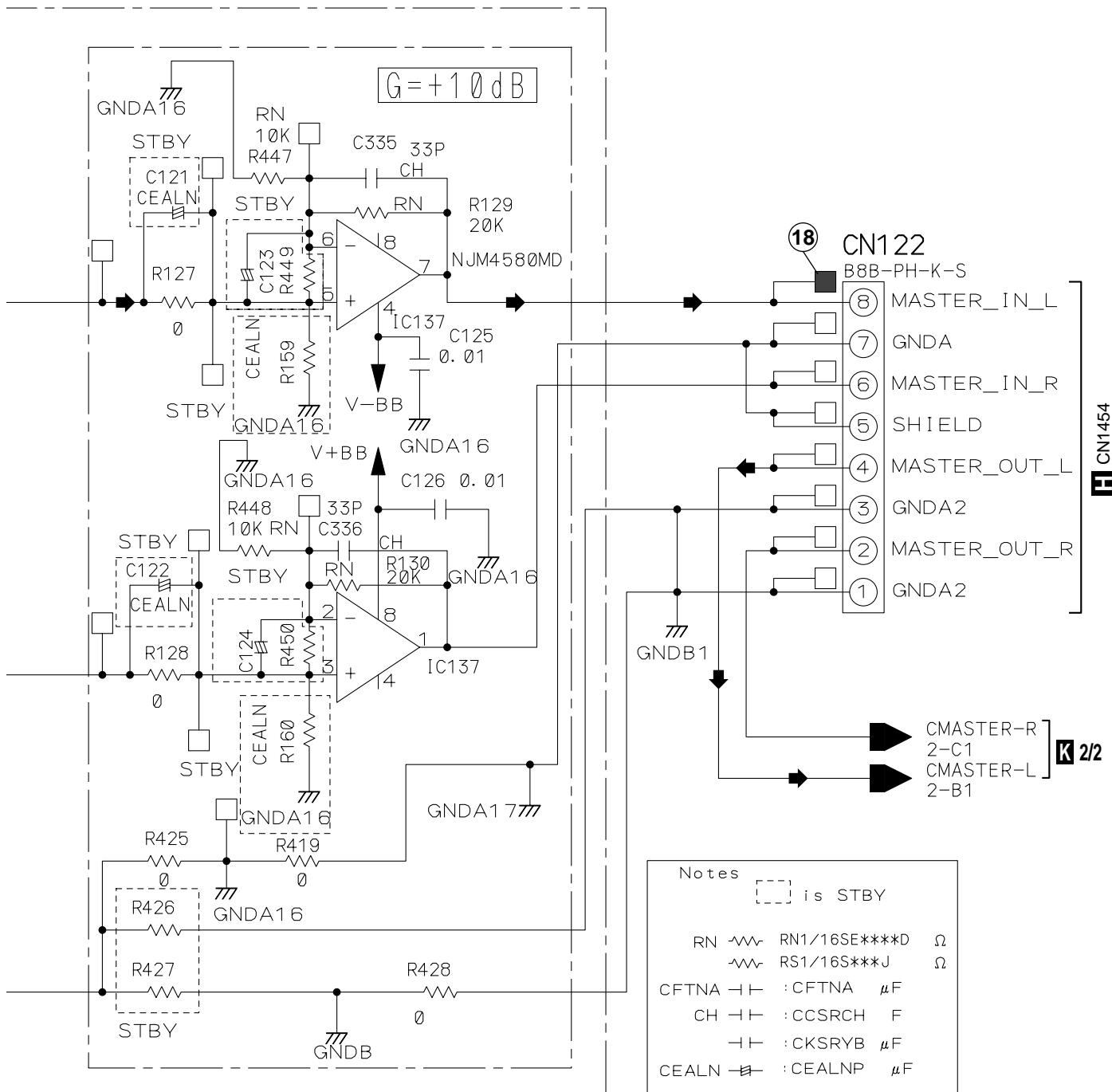
F I L T E R



K 1/2

→ : Main Signal Route

A

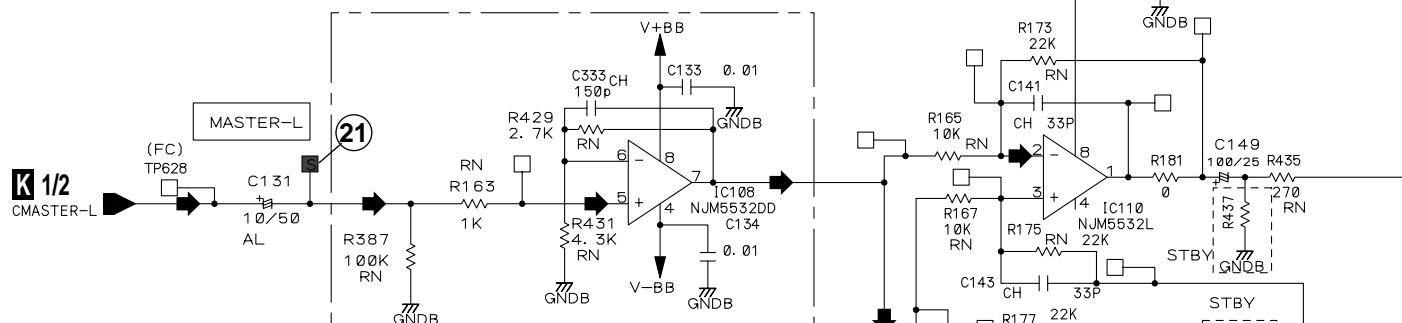


3.21 XLR ASSY (2/2)

A

K 2/2 XLR ASSY (DWX2322)

B



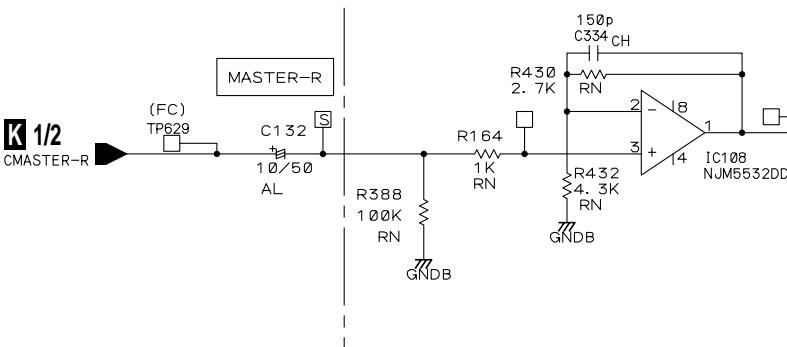
C

BUFFER

G = 1 . 9 dB

G = 6 . 8 dB

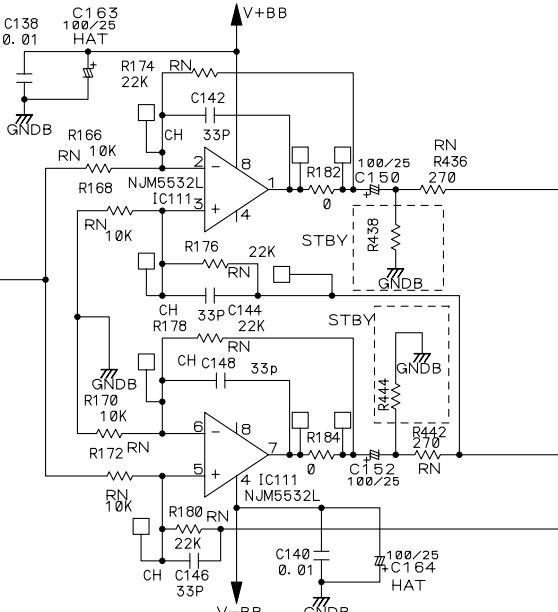
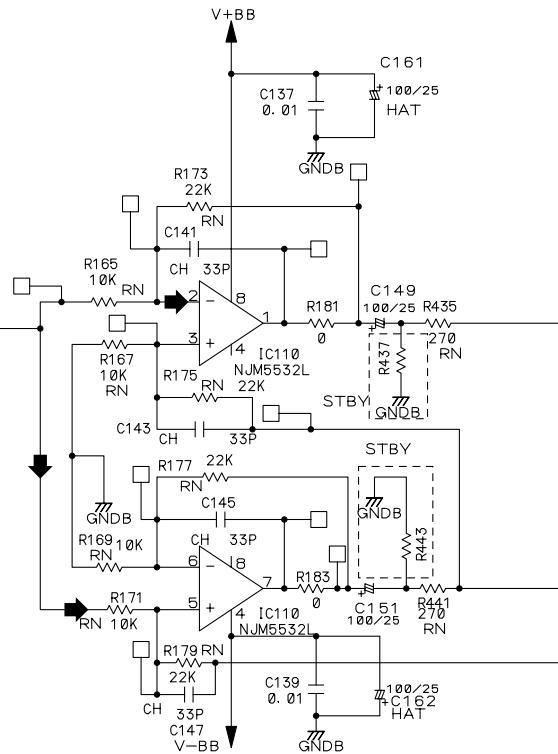
D



E

K 1/2
CMUTE

G = 4 . 9 dB

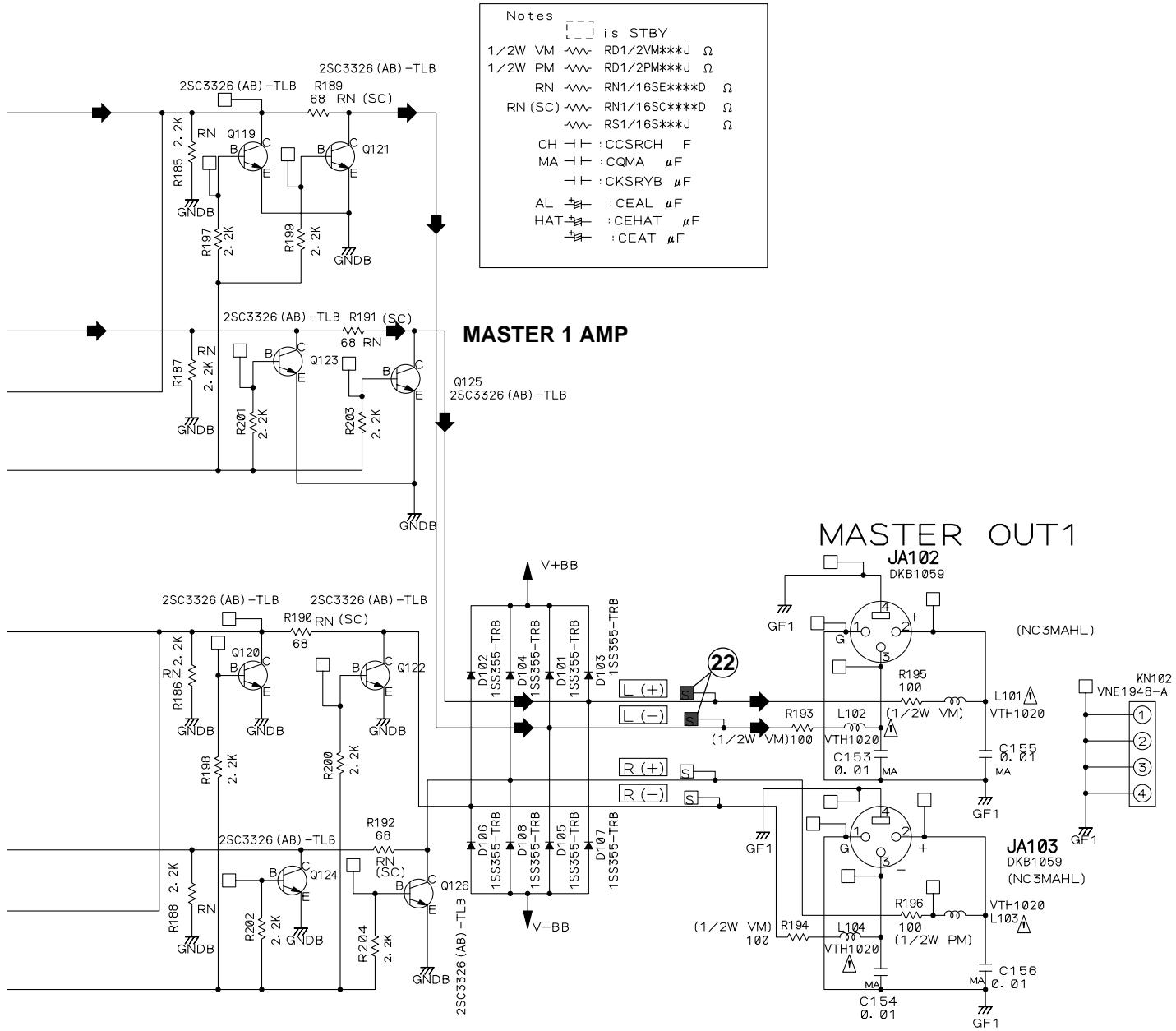


F

K 2/2

→ : Main Signal Route

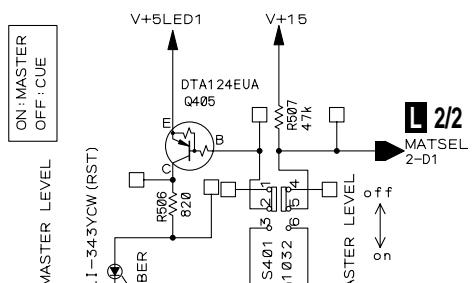
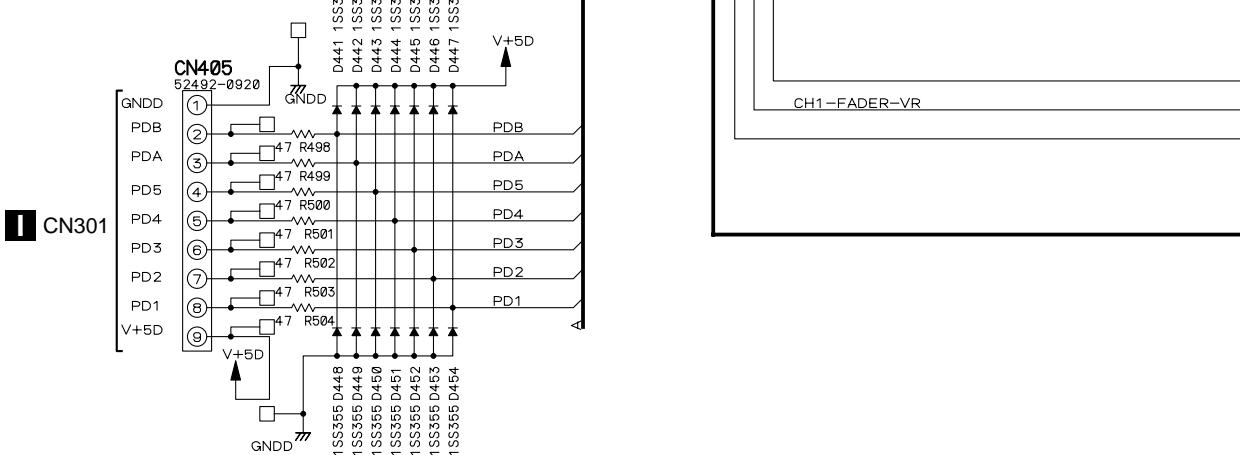
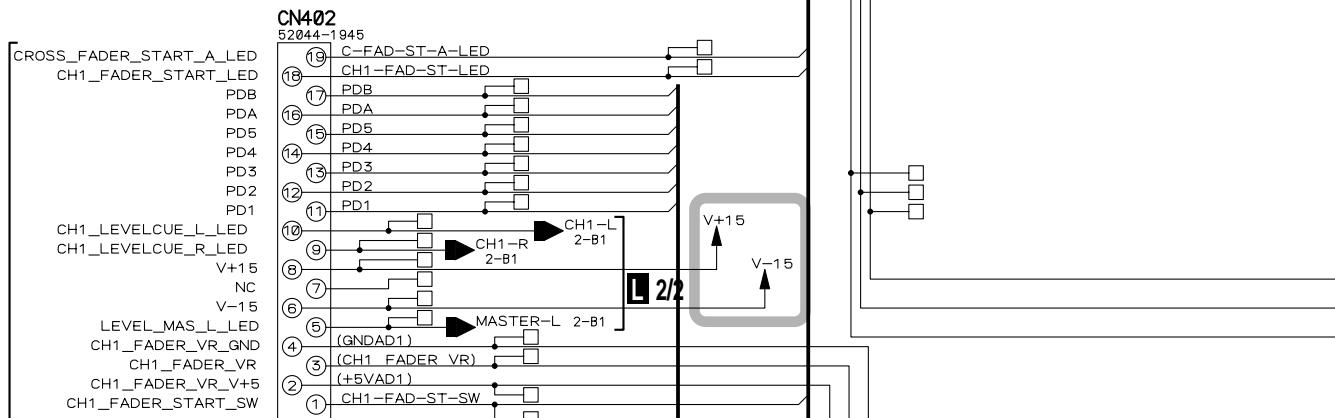
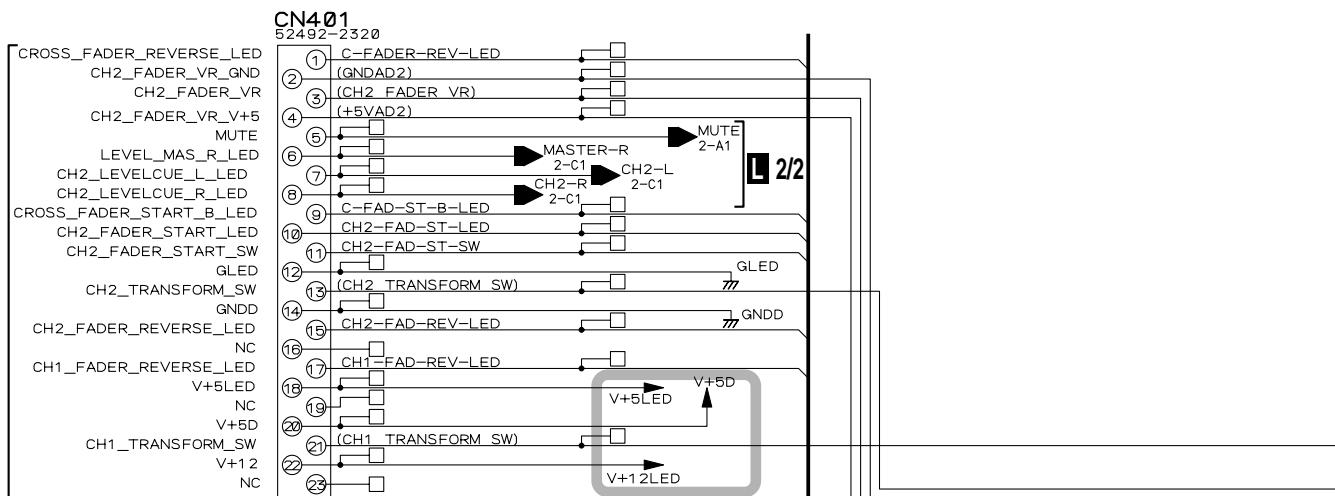
A



3.22 LVMR (1/2), C1TR, C2TR, FVA1 and FVA2 ASSYS

A

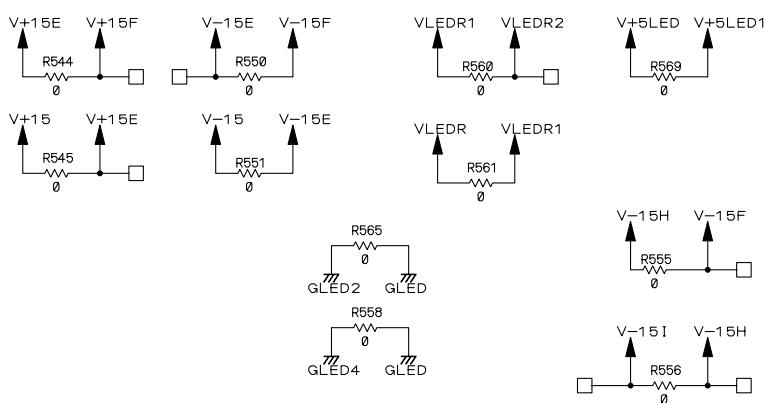
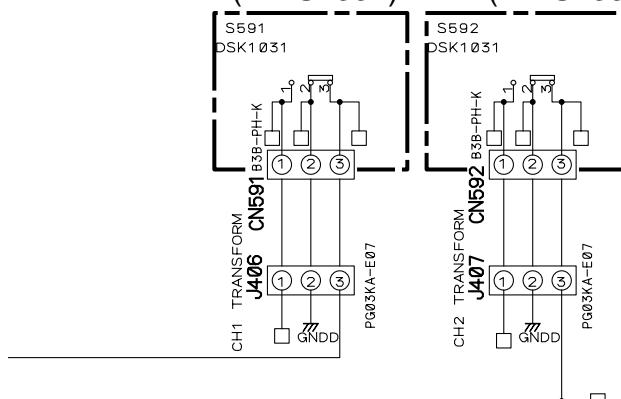
L 1/2 LVMR ASSY (DWS1330)



OFF 2-1 HI
ON 2-3 LO

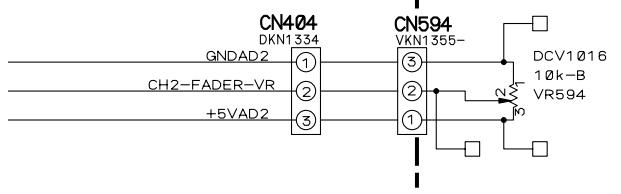
M C1TR ASSY (DWS1334)

N C2TR ASSY (DWS1335)

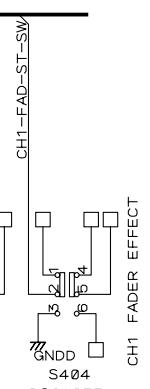
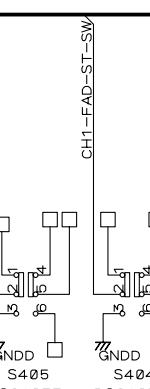
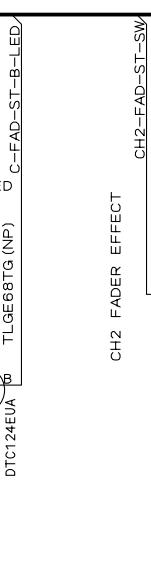
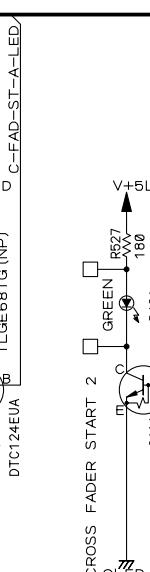
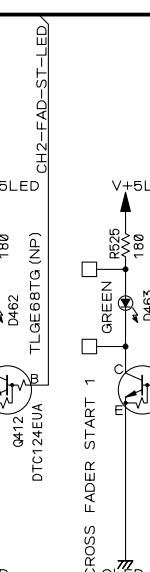
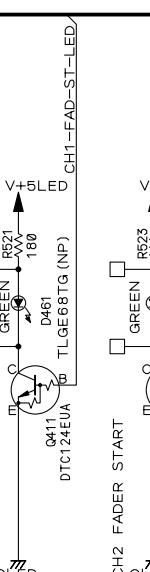
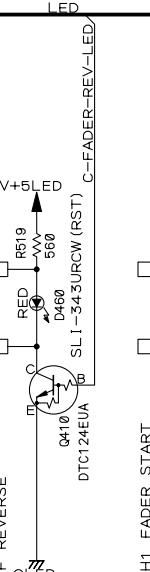
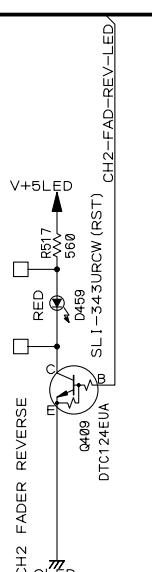
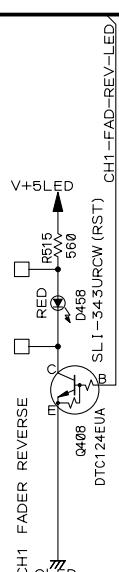
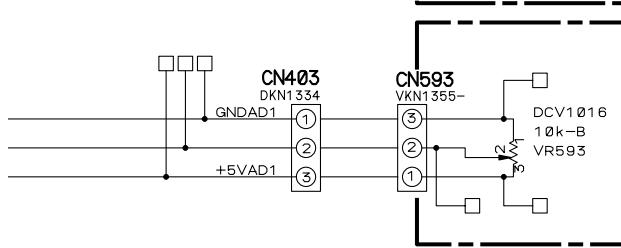


Notes
 - - - 1 Is STBY
 ~~~ RS1/16S\*\*\*J Ω  
 CH - - - :CCSRCH F  
 :CKSRYB μF  
 - - - :CEAT μF

### P FVA2 ASSY (DWS2324)



### O FVA1 ASSY (DWS2323)



L 1/2 M N O P

## 3.23 LVMR ASSY (2/2)

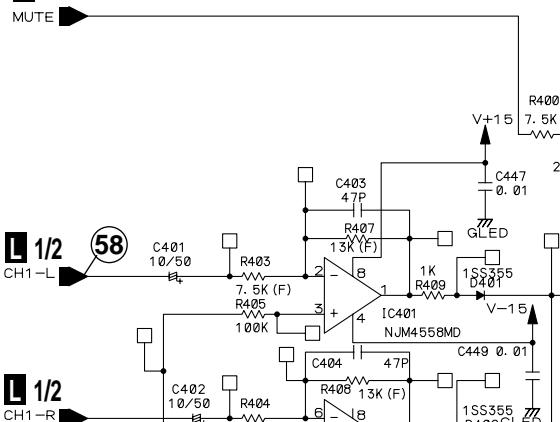
A

### L 2/2 LVMR ASSY (DWS1330)

| Mute | VLEDL | VLEDR |
|------|-------|-------|
| H    | OPEN  | OPEN  |
| L    | +12V  | +12V  |

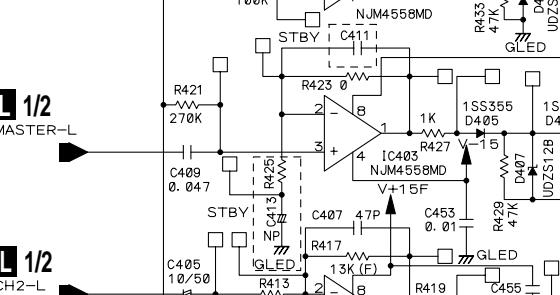
L 1/2

MUTE



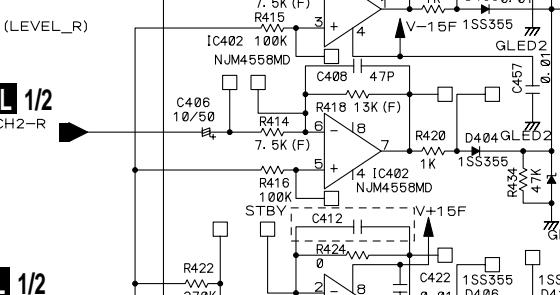
L 1/2

CH1-L



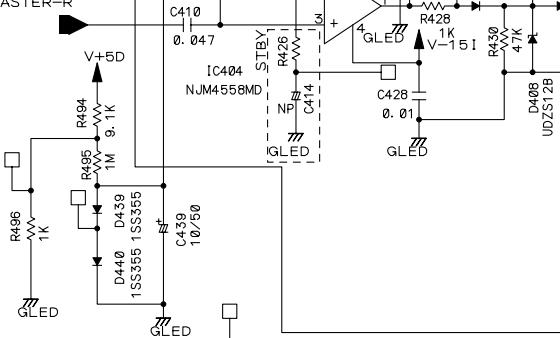
L 1/2

CH2-L



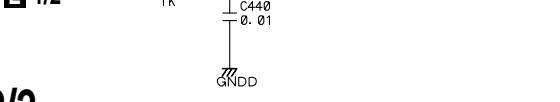
L 1/2

CH2-R



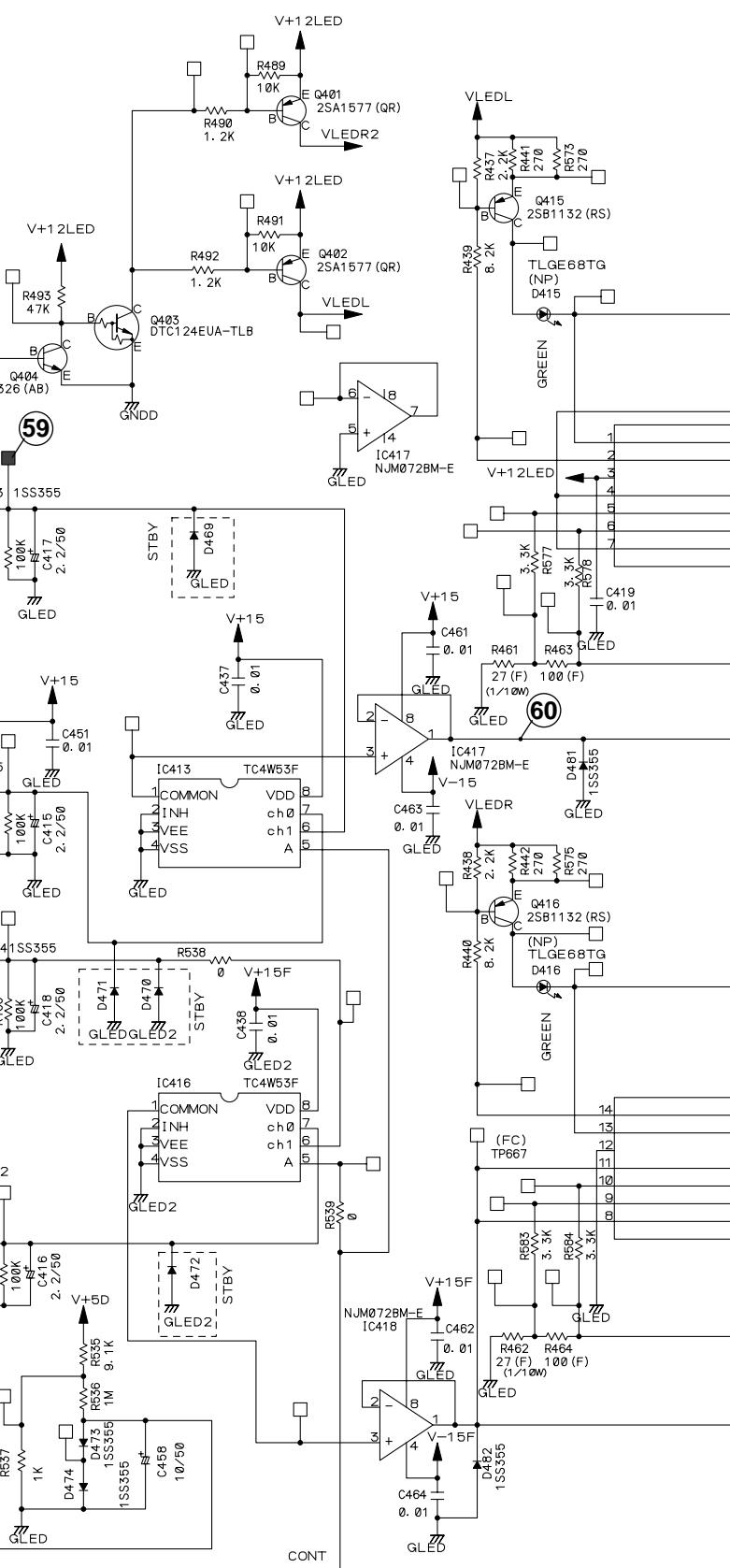
L 1/2

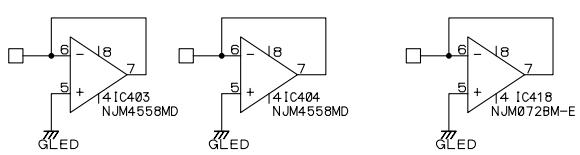
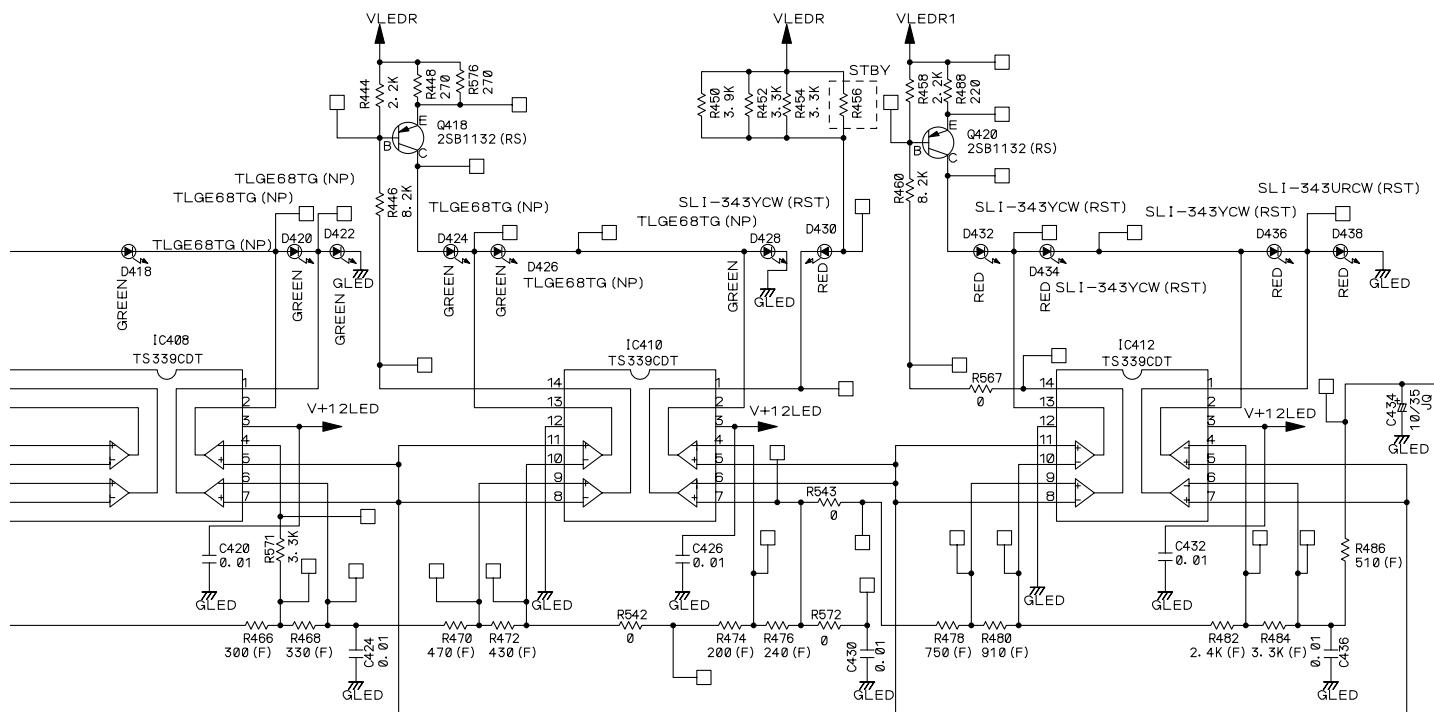
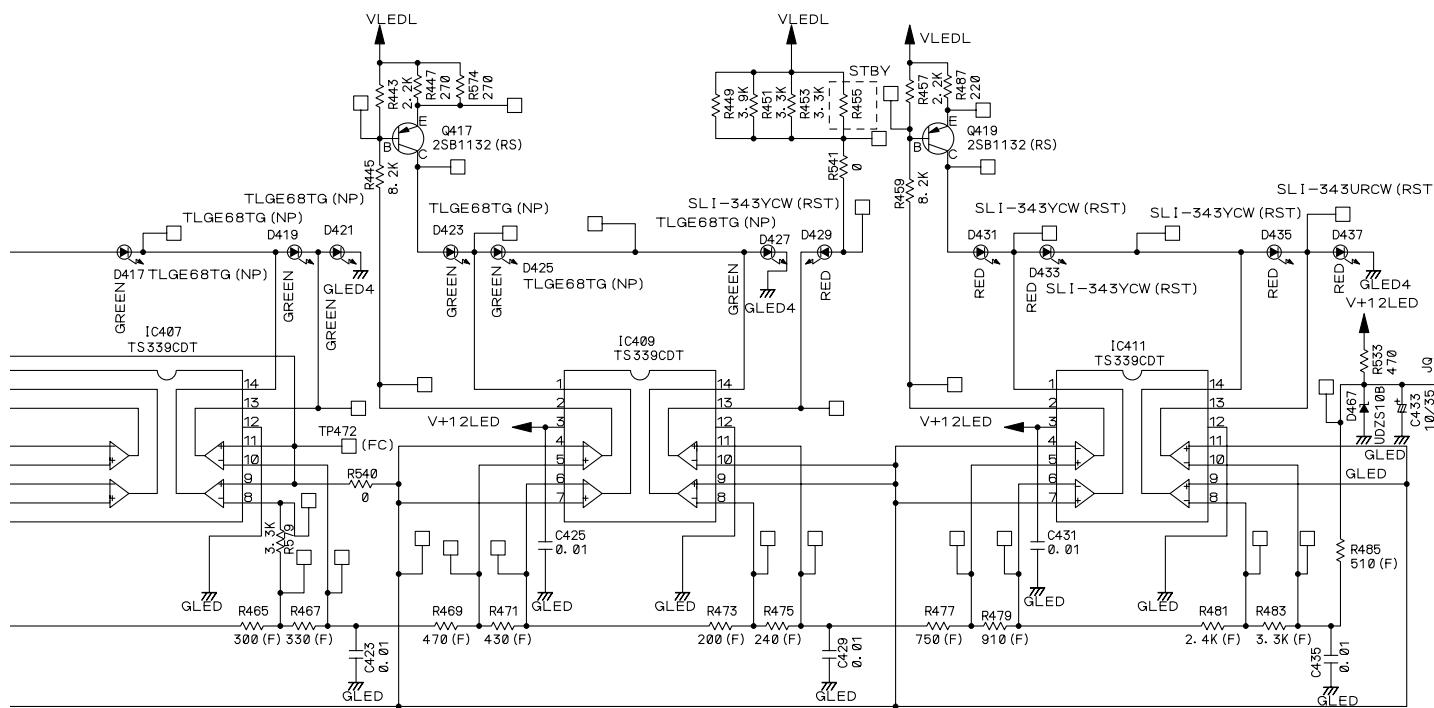
MASTER-R



L 1/2

MATSEL





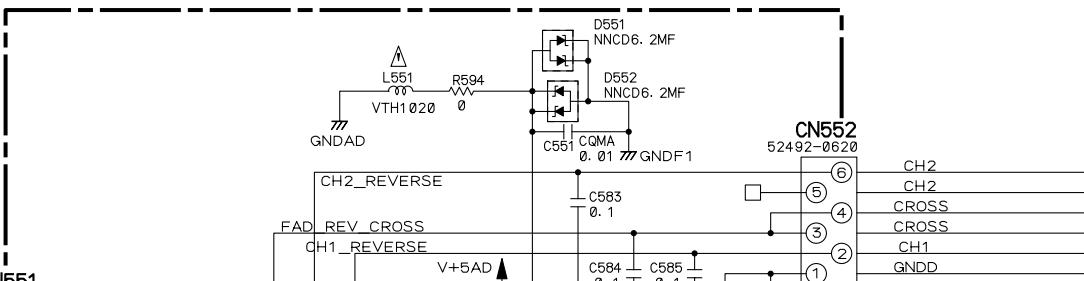
Notes  
 - is STBY  
 F ~~~ RS1/16S\*\*\*\*\*F Ω  
 F(1/10W) ~~~ RS1/10S\*\*\*\*\*F Ω  
 ~~~ RS1/10S\*\*\*\*\*J  
 CH -+ :CCSRCH F
 -+ :CKSRYB μF
 JO -+ :CEJO μF
 -+ :CEAT μF

| CONT | S3 | S4 | S5 | S6 |
|------|-----|-----|-----|-----|
| H | OFF | ON | ON | OFF |
| L | ON | OFF | OFF | ON |

3.24 CFVR, RVSW and FSSW ASSYS

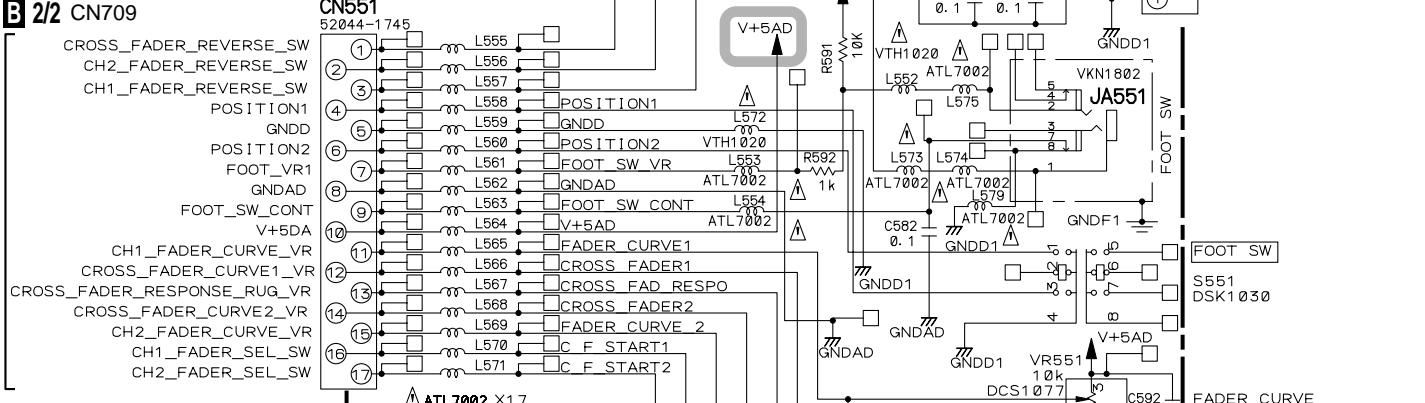
A

Q CFVR ASSY (DWS1331)

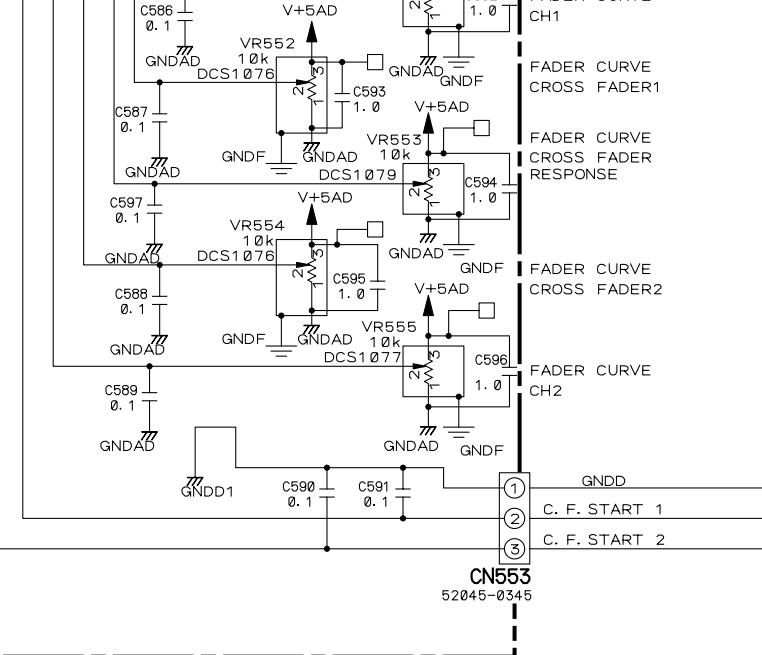


B

B 2/2 CN709



C

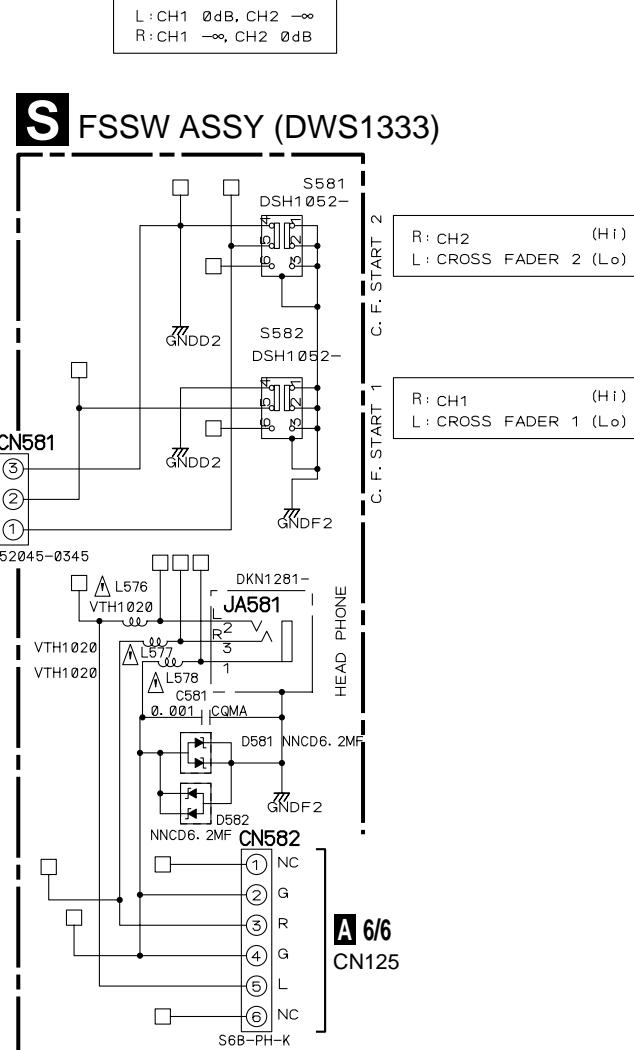
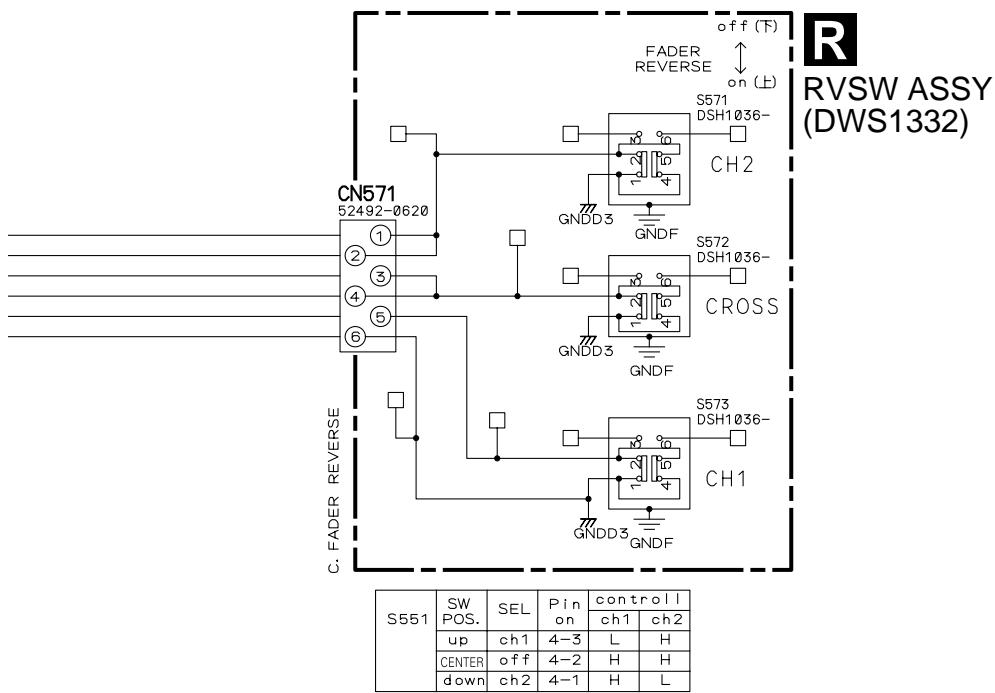


D

Notes
 - is STBY
 RN ~~~ RN1/16SE****D Ω
 ~~~ RS1/16S\*\*\*J Ω  
 CH -I : CCSRCH F  
 CQMA -I : CQMA μF  
 -I : CKSRYB μF  
 -I : CEAT μF

E



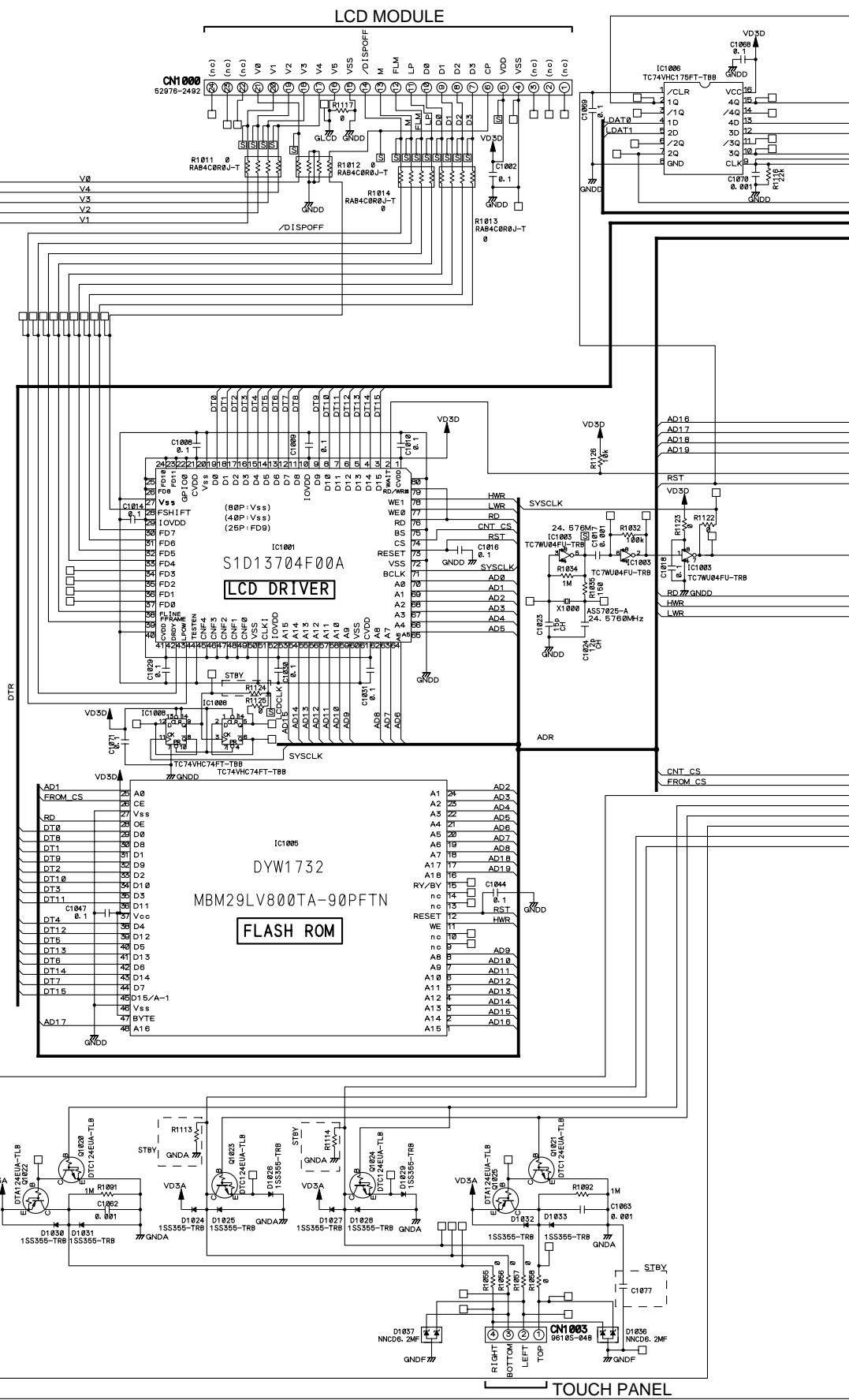
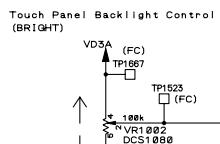
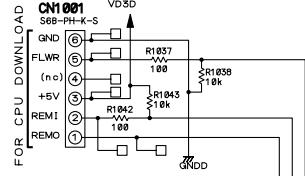
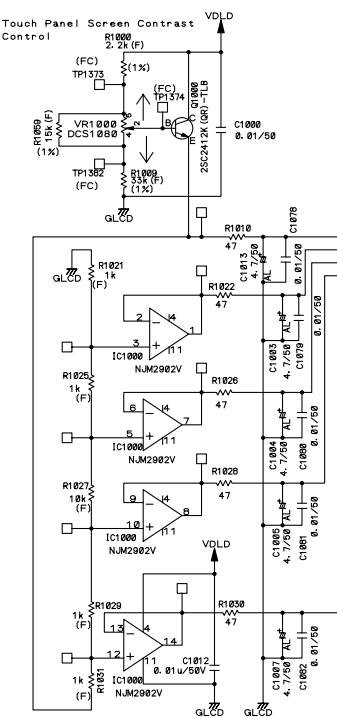


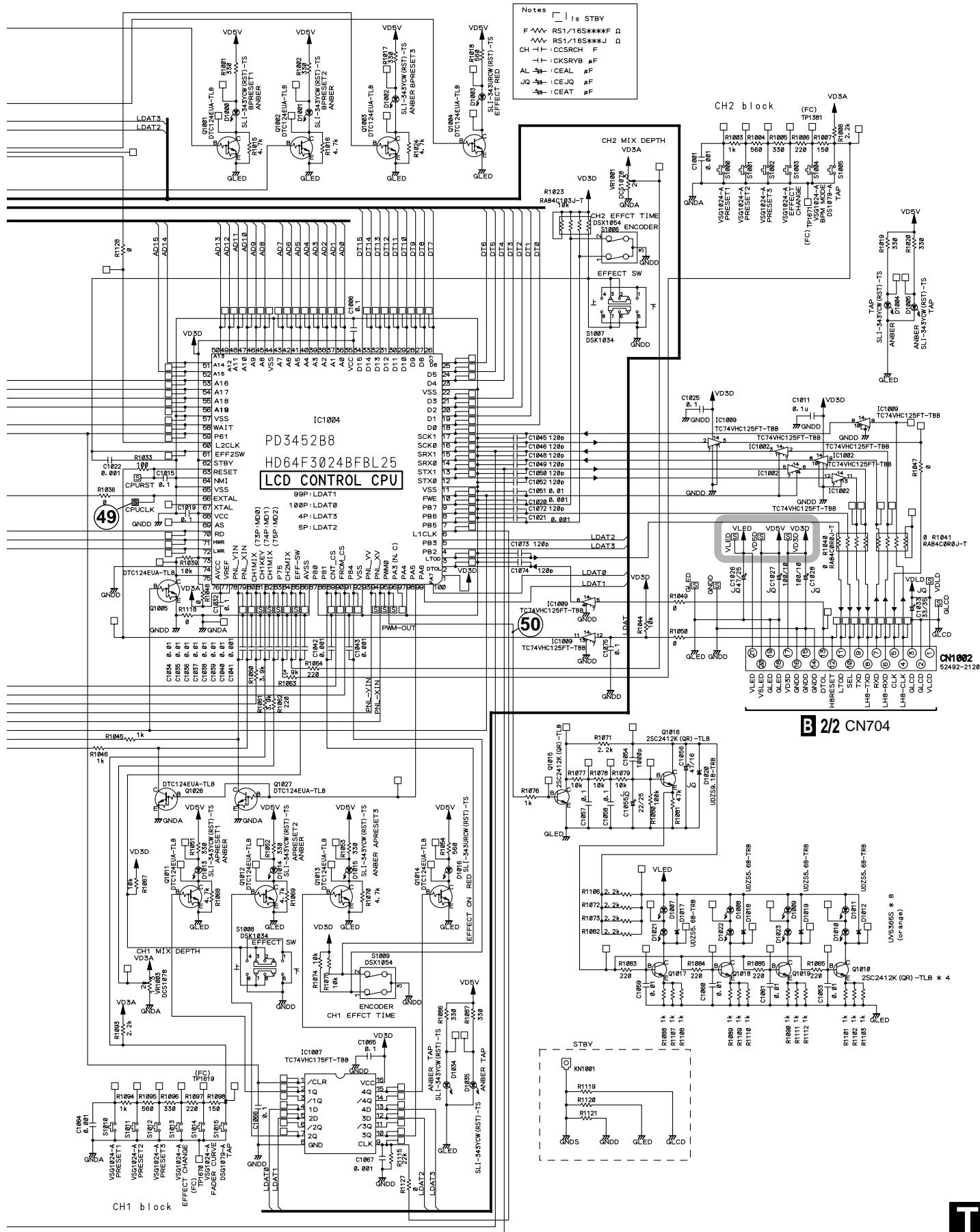
R S

## 3.25 LCD ASSY

A

### LCD ASSY (DWX2317)

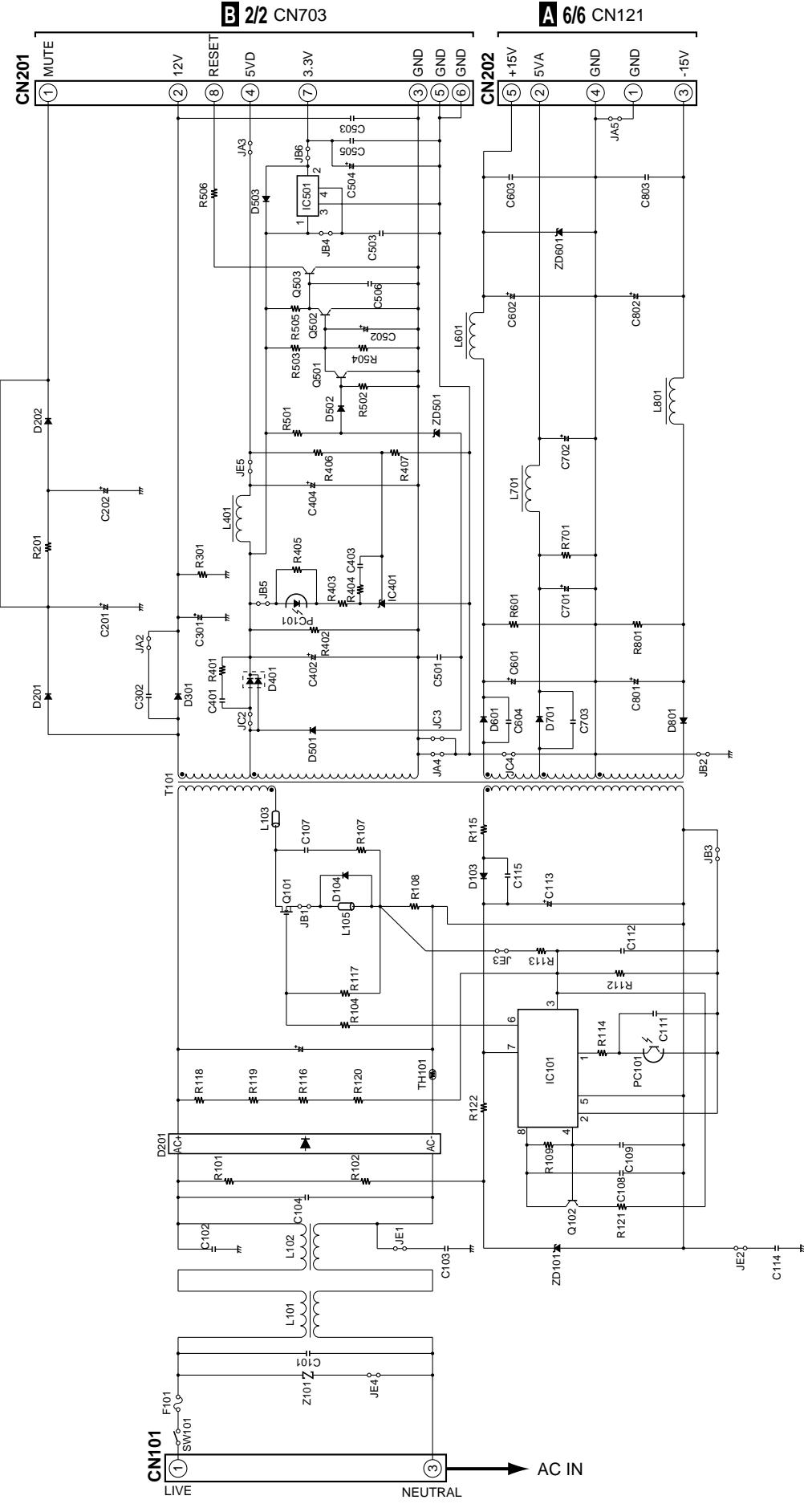




## 3.26 SW POWER SUPPLY

### U SW POWER SUPPLY (DWR1377)

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











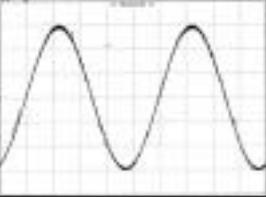
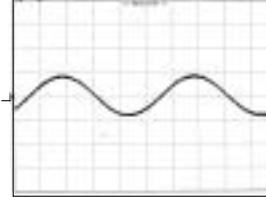
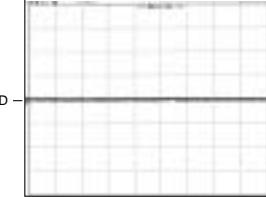
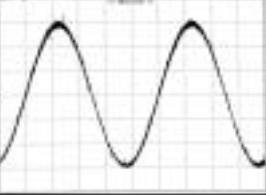
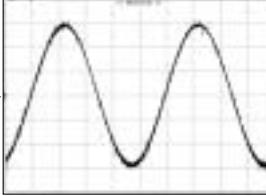
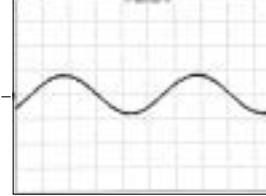
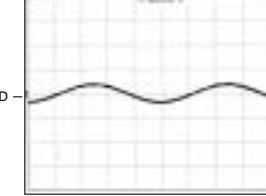
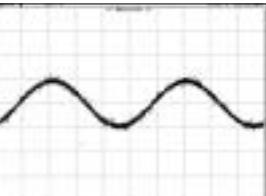
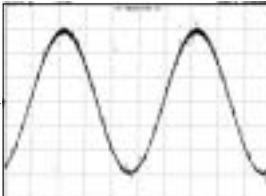
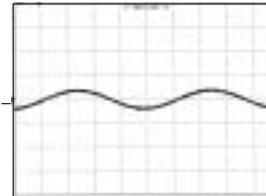
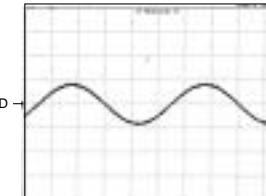
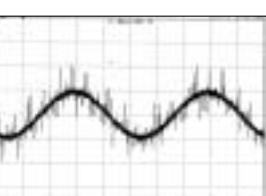
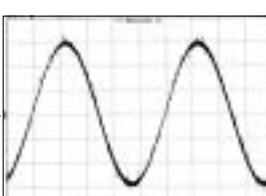
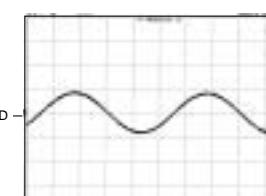




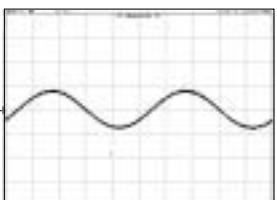
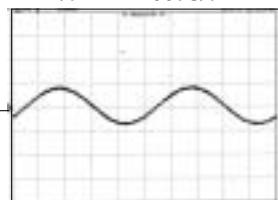
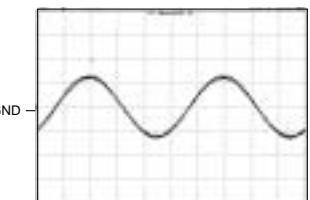
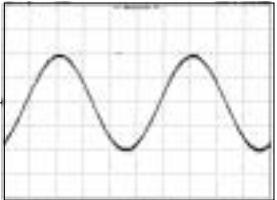
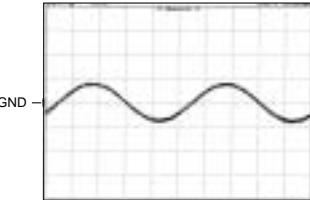
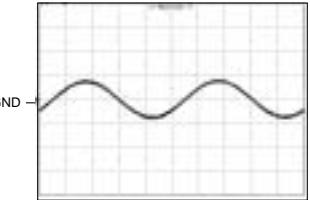
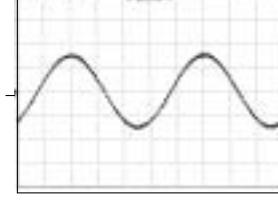
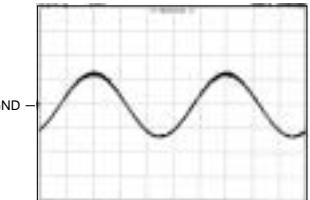
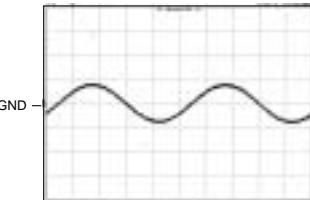
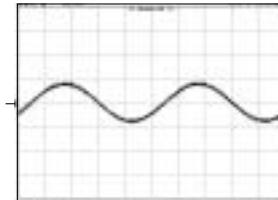
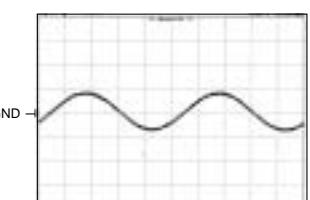
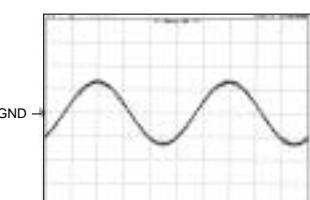
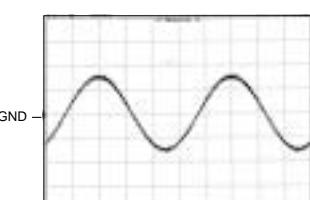
## 3.28 WAVEFORMS

### ■ Waveforms (1/5)

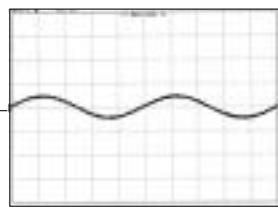
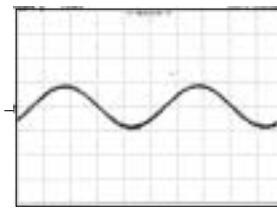
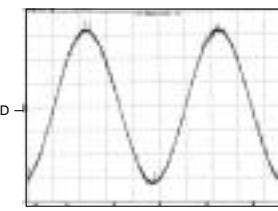
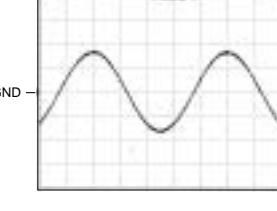
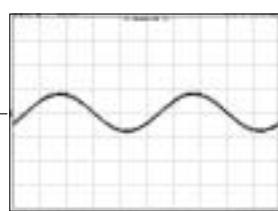
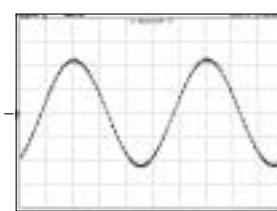
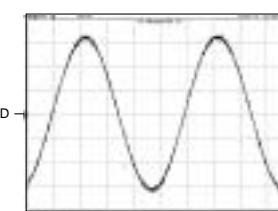
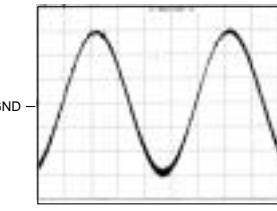
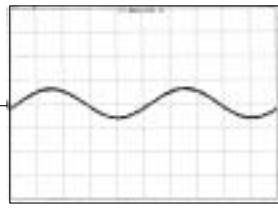
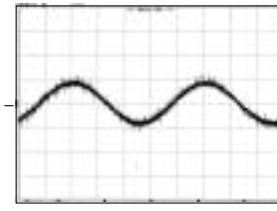
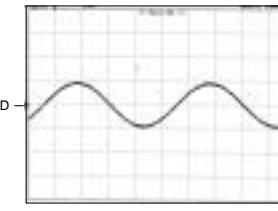
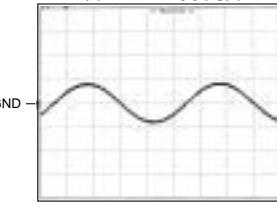
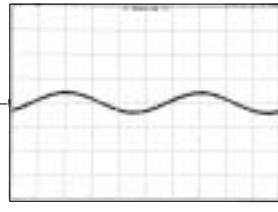
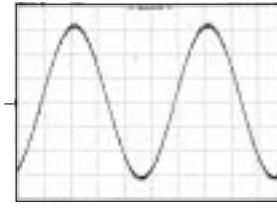
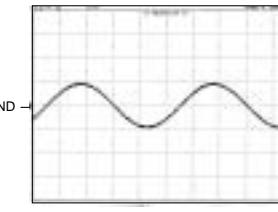
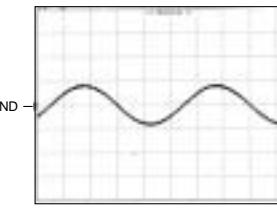
Note : The encircled numbers denote measuring point in the schematic diagram.

|                                                                                                                                             |                                                                                                                                               |                                                                                                                                            |                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E C1BF ASSY</b>                                                                                                                          | <b>E C1BF ASSY</b>                                                                                                                            | <b>C 1/2 C1EQ ASSY</b>                                                                                                                     | <b>C 1/2 C1EQ ASSY</b><br>MODE: EQ- OFF (S1601)                                                                                               |
| ① JA251 (CD L)<br>V: 0.1V/div. H: 200uS/div.<br>           | ⑤ RY1251 4pin (LINE L)<br>V: 1V/div. H: 200uS/div.<br>       | ⑨ IC1601 7 pin (BUF_L)<br>V: 1V/div. H: 200uS/div.<br>   | ⑫ TP1715 (EQ_L)<br>V: 1/div. H: 200uS/div.<br>             |
| <b>E C1BF ASSY</b>                                                                                                                          | <b>E C1BF ASSY</b>                                                                                                                            | <b>C 1/2 C1EQ ASSY</b>                                                                                                                     | <b>C 1/2 C1EQ ASSY</b><br>MODE: EQ- ON (S1601)                                                                                                |
| ② RY1252 4pin (CD L)<br>V: 0.1V/div. H: 200uS/div.<br>    | ⑥ CN1252 6pin (CH1_TO2_L)<br>V: 0.1V/div. H: 200uS/div.<br> | ⑩ IC1604 1pin (EQ_LOUT)<br>V: 1V/div. H: 200uS/div.<br> | ⑫ TP1715 (EQ_L)<br>V: 1V/div. H: 200uS/div.<br>           |
| <b>E C1BF ASSY</b>                                                                                                                          | <b>E C1BF ASSY</b>                                                                                                                            | <b>C 1/2 C1EQ ASSY</b><br>MODE: EQ- OFF (S1601)                                                                                            | <b>A 3/6 MAIN ASSY</b>                                                                                                                        |
| ③ JA1251 (LINE L)<br>V: 20mV/div. H: 200uS/div.<br>      | ⑦ CN1254 1pin (CH1_IN_L)<br>V: 0.1V/div. H: 200uS/div.<br> | ⑪ TP1706 (THROUGH_L)<br>V: 1V/div. H: 200uS/div.<br>   | ⑬ CN101 3pin (1CH_OUT_L)<br>V: 1V/div. H: 200uS/div.<br> |
| <b>E C1BF ASSY</b>                                                                                                                          | <b>C 1/2 C1EQ ASSY</b>                                                                                                                        | <b>C 1/2 C1EQ ASSY</b><br>MODE: EQ- ON (S1601)                                                                                             | <b>A 3/6 MAIN ASSY</b>                                                                                                                        |
| ④ RY1251 2pin (LINE L)<br>V: 20mV/div. H: 200uS/div.<br> | ⑧ CN1601 1pin (CH1_IN_L)<br>V: 0.1/div. H: 200uS/div.<br>  | ⑪ TP1706 (THROUGH_L)<br>V: 1V/div. H: 200uS/div.<br>   | ⑭ C197(NP) (+IN)<br>V: 1V/div. H: 200uS/div.<br>         |

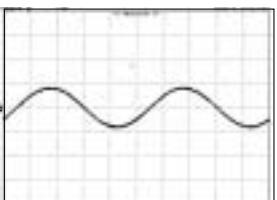
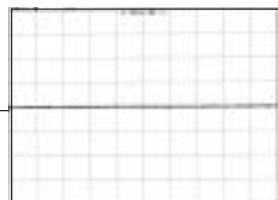
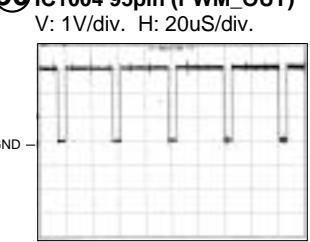
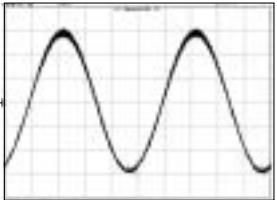
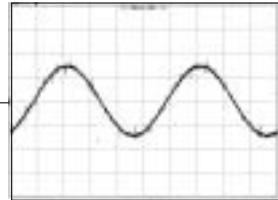
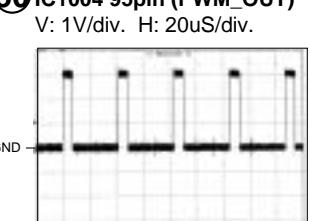
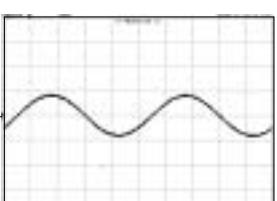
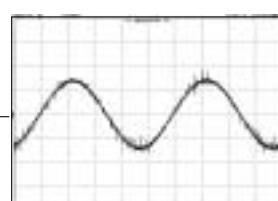
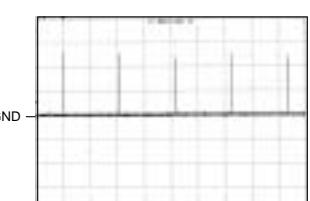
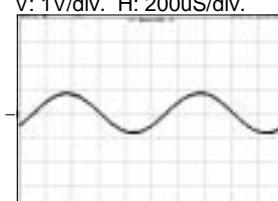
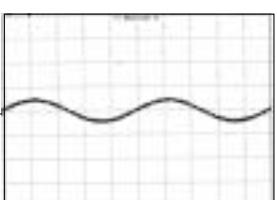
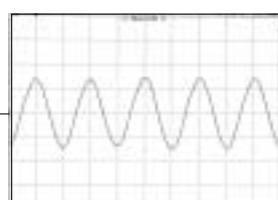
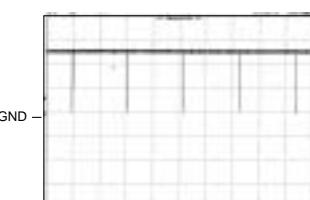
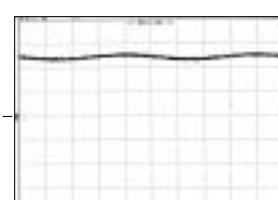
A ■ Waveforms (2/5)

|                                                                                                                                                                     |                                                                                                                                                                         |                                                                                                                                                                      |                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A 3/6 MAIN ASSY</b>                                                                                                                                              | <b>H HPBO ASSY</b>                                                                                                                                                      | <b>K 2/2 XLR ASSY</b>                                                                                                                                                | <b>A 6/6 MAIN ASSY</b>                                                                                                                                                 |
| <p><b>⑯ IC115 14pin (VG)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>          | <p><b>⑰ CN1454 8pin (MASTER_IN_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>     | <p><b>㉑ L (-) pin</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>                 | <p><b>㉔ CN119 14 pin (BOOTH_OUT_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p> |
| <b>A 1/6 MAIN ASSY</b>                                                                                                                                              | <b>H HPBO ASSY</b>                                                                                                                                                      | <b>C 1/2 C1EQ ASSY</b>                                                                                                                                               | <b>A 2/6 MAIN ASSY</b>                                                                                                                                                 |
| <p><b>㉖ Q101 E (CH1 VCA OUT L)</b><br/>V: 0.2V/div. H: 200uS/div.</p>  <p>GND</p> | <p><b>㉗ CN1452 18pin (MASTER2_OUT_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p> | <p><b>㉙ C329 +pin (MASTER_PIN_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p> | <p><b>㉘ JA101 (BOOTH_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>           |
| <b>A 1/6 MAIN ASSY</b>                                                                                                                                              | <b>K 2/2 XLR ASSY</b>                                                                                                                                                   | <b>A 2/6 MAIN ASSY</b><br>MODE: EQ- OFF (S1601)                                                                                                                      | <b>A 1/6 MAIN ASSY</b>                                                                                                                                                 |
| <p><b>㉛ CN123 4pin (FIL_IN_L)</b><br/>V: 0.2V/div. H: 200uS/div.</p>  <p>GND</p>  | <p><b>㉜ C131 pin (MASTER_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>         | <p><b>㉝ JA101 (MASTER_OUT2_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>   | <p><b>㉟ C285 (VCA_AL)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>            |
| <b>K 1/2 XLRASSY</b>                                                                                                                                                | <b>K 2/2 XLR ASSY</b>                                                                                                                                                   | <b>H HPBO ASSY</b>                                                                                                                                                   | <b>A 1/6 MAIN ASSY</b><br>MODE: SEND- OFF (S1603)                                                                                                                      |
| <p><b>㉛ CN122 8pin (MASTER_IN_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p> | <p><b>㉕ L (+) pin</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>                   | <p><b>㉖ C1459 (BOOTH_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>         | <p><b>㉗ IC104 1pin (SEND_OUT_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>  |

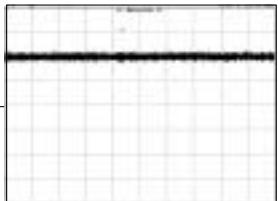
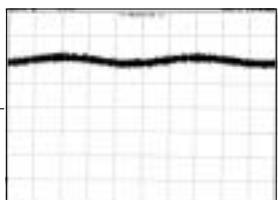
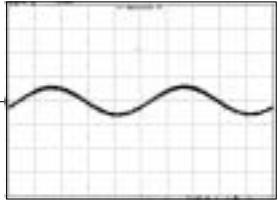
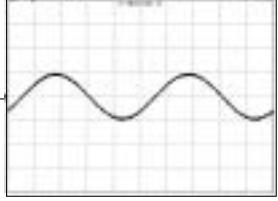
## ■ Waveforms (3/5)

|                                                                                                                                                                                                         |                                                                                                                                                                           |                                                                                                                                                                               |                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A 1/6 MAIN ASSY</b><br>MODE: SEND- ON (S1603)<br><b>29 IC104 1pin (SEND_OUT_L)</b><br>V: 1V/div. H: 200uS/div.<br>  | <b>H HPBO ASSY</b><br><b>31 IC1453 1pin (HP_LEVEL)</b><br>V: 1V/div. H: 200uS/div.<br>   | <b>G MICB ASSY</b><br><b>35 C1242 pin (MIC)</b><br>V: 0.1V/div. H: 200uS/div.<br>           | <b>G MICB ASSY</b><br>MODE: EQ- ON (S1601)<br><b>39 CN1201 2pin (MIC_TO CH1)</b><br>V: 1V/div. H: 200uS/div.<br> |
| <b>H HPBO ASSY</b><br>MODE: SELECT-MASTER(S1752)<br><b>30 IC1455 3pin (MASTER L)</b><br>V: 1V/div. H: 200uS/div.<br>  | <b>H HPBO ASSY</b><br><b>32 TP1515 (FC)</b><br>V: 1V/div. H: 200uS/div.<br>             | <b>G MICB ASSY</b><br><b>36 C1237 pin (MIC)</b><br>V: 0.1V/div. H: 200uS/div.<br>          | <b>G MICB ASSY</b><br><b>40 JA1202 (SESSION_L)</b><br>V: 0.1V/div. H: 200uS/div.<br>                            |
| <b>H HPBO ASSY</b><br>MODE: SELECT-EFFECT(S1752)<br><b>30 IC1455 3pin (MASTER L)</b><br>V: 1V/div. H: 200uS/div.<br> | <b>G MICB ASSY</b><br><b>33 JA1201 2, 3pin (MIC)</b><br>V: 20mV/div. H: 200uS/div.<br> | <b>C 2/2 C1EQ ASSY</b><br><b>37 CN1604 (MIC_EQ_IN)</b><br>V: 5V/div. H: 200uS/div.<br>    | <b>G MICB ASSY</b><br><b>41 CN1202 1pin (SESSION_IN_L)</b><br>V: 1V/div. H: 200uS/div.<br>                     |
| <b>H HPBO ASSY</b><br>MODE: SELECT-CUE (S1752)<br><b>30 IC1455 3pin (MASTER L)</b><br>V: 1V/div. H: 200uS/div.<br>   | <b>G MICB ASSY</b><br><b>34 C1230 pin (MIC)</b><br>V: 0.1V/div. H: 200uS/div.<br>      | <b>C 2/2 C1EQ ASSY</b><br><b>38 IC1610 1pin (MIC_OUT)</b><br>V: 5V/div. H: 200uS/div.<br> | <b>C 2/2 C1EQ ASSY</b><br><b>42 CN1604 1pin (SE_IN_L)</b><br>V: 1V/div. H: 200uS/div.<br>                      |

## A Waveforms (4/5)

|                                                                                                                                                                                                 |                                                                                                                                                                                                  |                                                                                                                                                                                                                                |                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C1/2 CH1EQ ASSY</b><br><br>④③ CN1603 15pin (SESSION_OUT_L)<br>V: 1V/div. H: 200uS/div.<br>                  | <b>J SDRT ASSY</b><br>MODE: SEND- OFF (S1603)<br><br>④⑦ IC1902 1pin (SND_L2)<br>V: 0.1V/div. H: 200uS/div.<br>  | <b>T LCD ASSY</b><br>MODE:<br>Knob position : 20% (VR1002)<br>LCD: BRIGHT 2<br><br>④⑩ IC1004 95pin (PWM_OUT)<br>V: 1V/div. H: 20uS/div.<br>  | <b>B1/2 DSP ASSY</b><br><br>④⑫ IC714 185pin (I.GCK3)<br>V: 0.5V/div. H: 20n/div.<br>        |
| <b>J SDRT ASSY</b><br><br>④④ JA1902 2pin (RETURN L)<br>V: 0.1V/div. H: 200uS/div.<br>                         | <b>J SDRT ASSY</b><br>MODE: SEND- ON (S1603)<br><br>④⑦ IC1902 1pin (SND_L2)<br>V: 0.1V/div. H: 200uS/div.<br>  | <b>T LCD ASSY</b><br>MODE:<br>Knob position : 80% (VR1002)<br>LCD: BRIGHT 8<br><br>④⑩ IC1004 95pin (PWM_OUT)<br>V: 1V/div. H: 20uS/div.<br> | <b>B1/2 DSP ASSY</b><br><br>④⑬ IC718 66pin (EXTAL)<br>V: 0.5/div. H: 20nS/div.<br>         |
| <b>J SDRT ASSY</b><br><br>④⑤ C1910 pin (RTN_L3)<br>V: 1V/div. H: 200uS/div.<br>                              | <b>J SDRT ASSY</b><br>MODE: SEND- ON (S1603)<br><br>④⑧ JA1904 3pin (SEND L)<br>V: 0.1V/div. H: 200uS/div.<br> | <b>B1/2 DSP ASSY</b><br>MODE: CH1 FADER MIN (VR593)<br><br>④⑪ IC718 95pin (VCA1_CONT)<br>V: 2V/div. H: 20uS/div.<br>                       | <b>B2/2 DSP ASSY</b><br><br>④⑭ CN705 24pin (DSP 1CH_IN_L)<br>V: 1V/div. H: 200uS/div.<br> |
| <b>J SDRT ASSY</b><br>MODE: SEND- ON (S1603)<br><br>④⑥ CN1901 11pin (SEND_L)<br>V: 1V/div. H: 200uS/div.<br> | <b>T LCD ASSY</b><br><br>④⑨ IC1004 66pin (CPUCLK)<br>V: 0.5V/div. H: 20nS/div.<br>                            | <b>B1/2 DSP ASSY</b><br>MODE: CH1 FADER MAX (VR593)<br><br>④⑪ IC718 95pin (VCA1_CONT)<br>V: 2V/div. H: 20uS/div.<br>                       | <b>B2/2 DSP ASSY</b><br><br>④⑮ C719 pin (1ADL)<br>V: 1Vdiv. H: 200uS/div.<br>             |

## ■ Waveforms (5/5)

|                                                                                                                                                                                                                                       |                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>B2/2 DSP ASSY</b><br/>MODE: CH1 EFFECT- OFF<br/>(S1008)<br/><b>56 IC703 7pin (VOUT_L)</b><br/>V: 0.5V/div. H: 200uS/div.</p>  <p>GND</p>       | <p><b>L2/2 LVMR ASSY</b></p> <p><b>59 IC413 6pin (CH1)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>                                 |
| <p><b>B2/2 DSP ASSY</b><br/>MODE: CH1 EFFECT- ON(S1008)<br/><b>56 IC703 7pin (VOUT_L)</b><br/>V: 0.5V/div. H: 200uS/div.</p>  <p>GND</p>            | <p><b>L2/2 LVMR ASSY</b><br/>MODE: MASTER LEVEL- ON<br/>(S401)<br/><b>60 IC417 1pin</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>   |
| <p><b>B2/2 DSP ASSY</b><br/>MODE: CH1 EFFECT- ON(S1008)<br/><b>57 CN705 28pin<br/>(DSP 1CH OUT_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p> | <p><b>L2/2 LVMR ASSY</b><br/>MODE: MASTER LEVEL- OFF<br/>(S401)<br/><b>60 IC417 1pin</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p> |
| <p><b>L2/2 LVMR ASSY</b></p> <p><b>58 C401 pin (CH1_L)</b><br/>V: 1V/div. H: 200uS/div.</p>  <p>GND</p>                                            | <p>F</p>                                                                                                                                                                                                                 |

# 4. PCB CONNECTION DIAGRAM

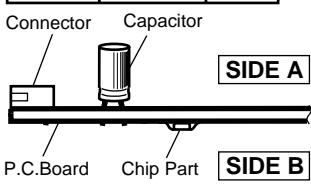
## 4.1 MAIN ASSY

### SIDE A

#### NOTE FOR PCB DIAGRAMS :

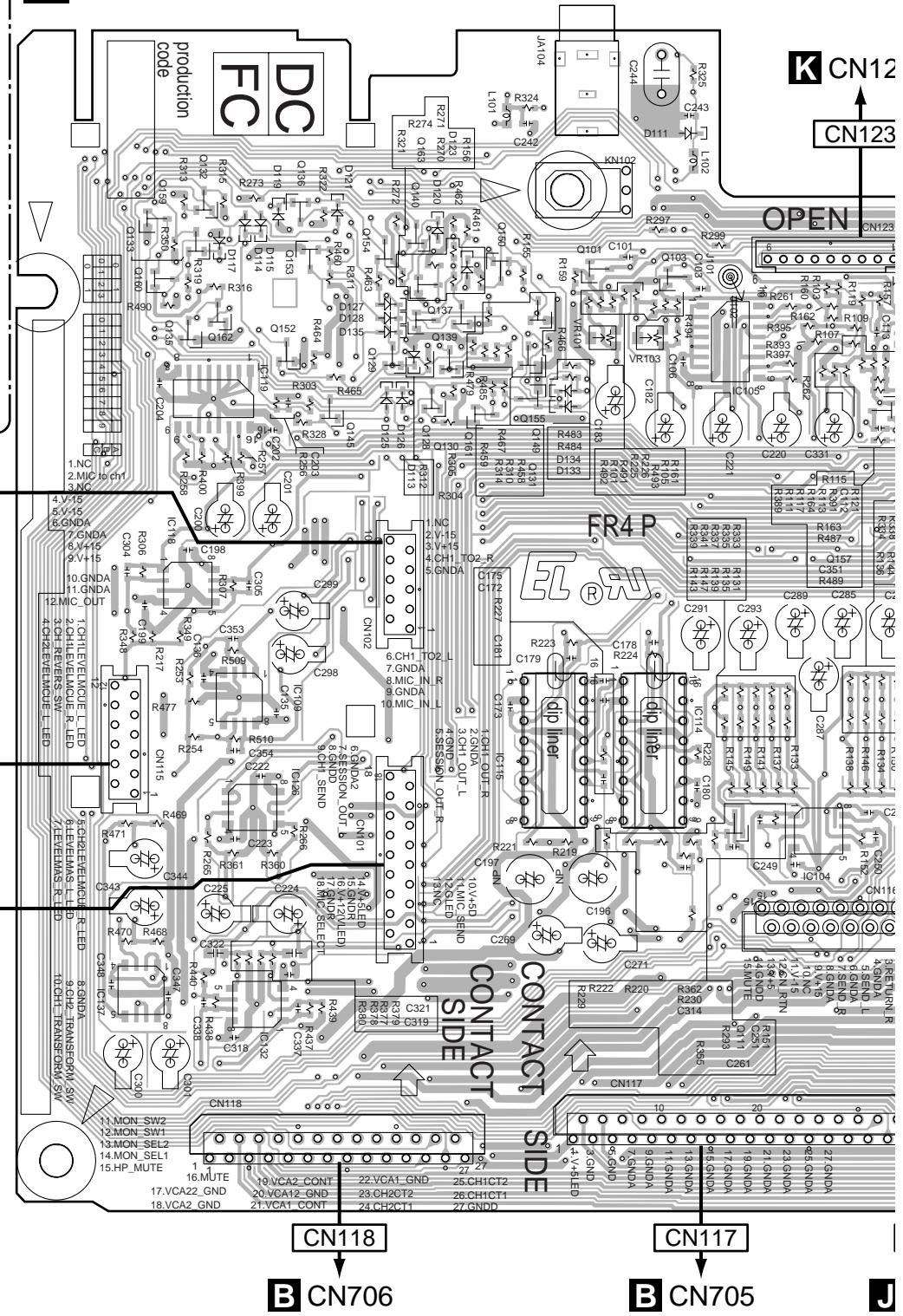
- Part numbers in PCB diagrams match those in the schematic diagrams.
- A comparison between the main parts of PCB and schematic diagrams is shown below.
- The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- View point of PCB diagrams.

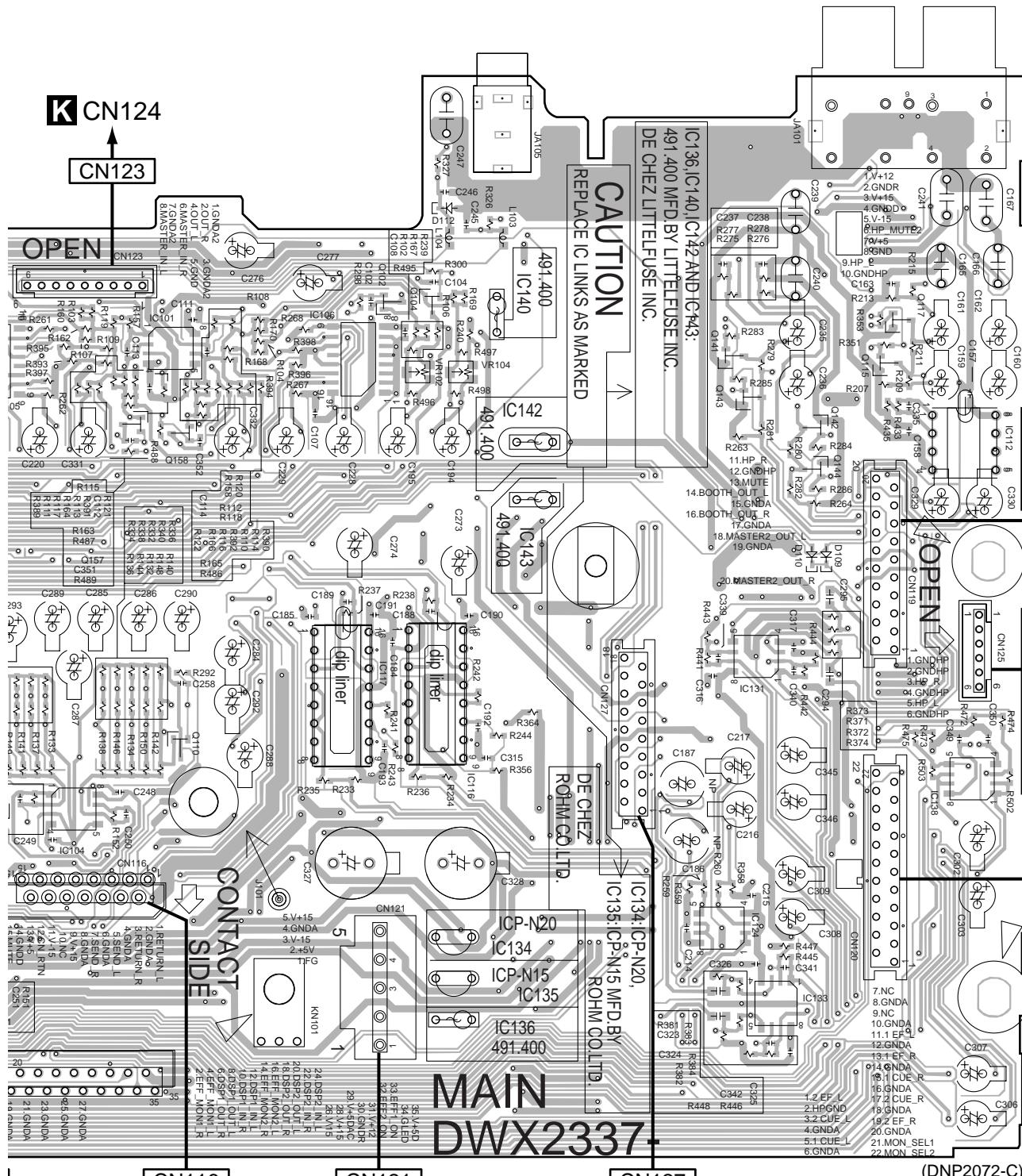
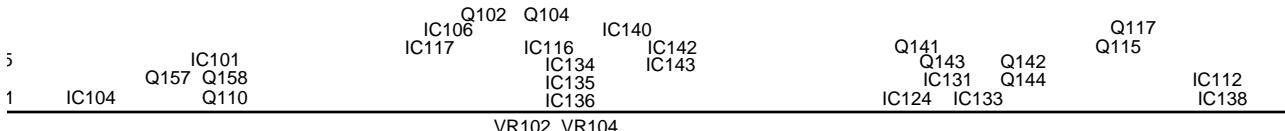
| Symbol In PCB Diagrams | Symbol In Schematic Diagrams | Part Name                |
|------------------------|------------------------------|--------------------------|
|                        |                              | Transistor               |
|                        |                   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



Q159 Q132 Q160 Q133 Q135 Q162 Q152 Q153 Q154 Q163 Q154 Q140 Q150 Q154 Q163 Q137 Q129 Q139 Q161 Q145 Q149 Q101 Q103 IC105  
Q132 Q162 IC118 IC119 IC109 IC126 IC132 IC137 IC115 IC114 IC104 VR101 VR103

### A MAIN ASSY



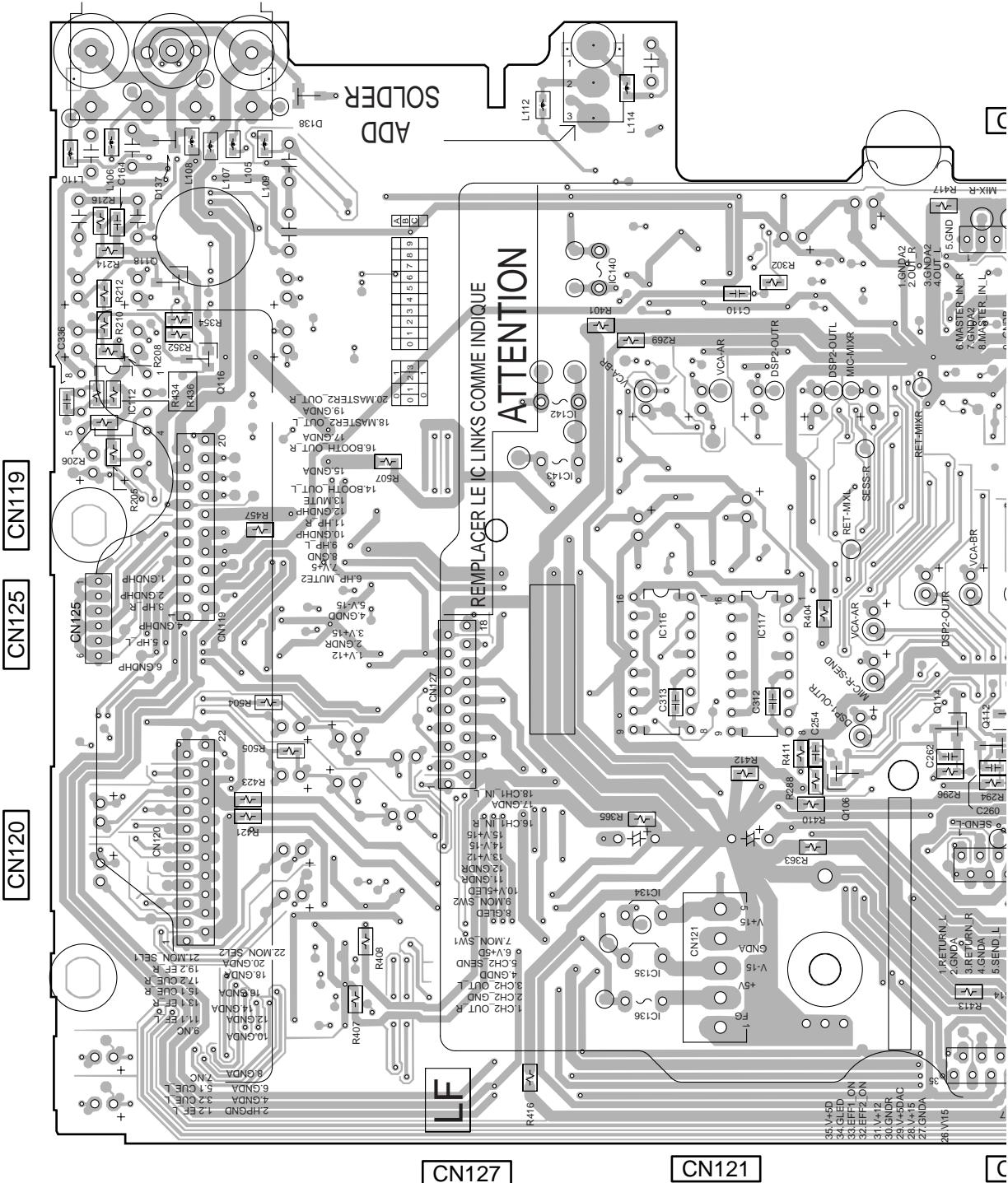
**SIDE A****A**

**SIDE B**Q118  
Q116IC140  
IC142  
IC143  
IC116  
IC134  
IC135  
IC136

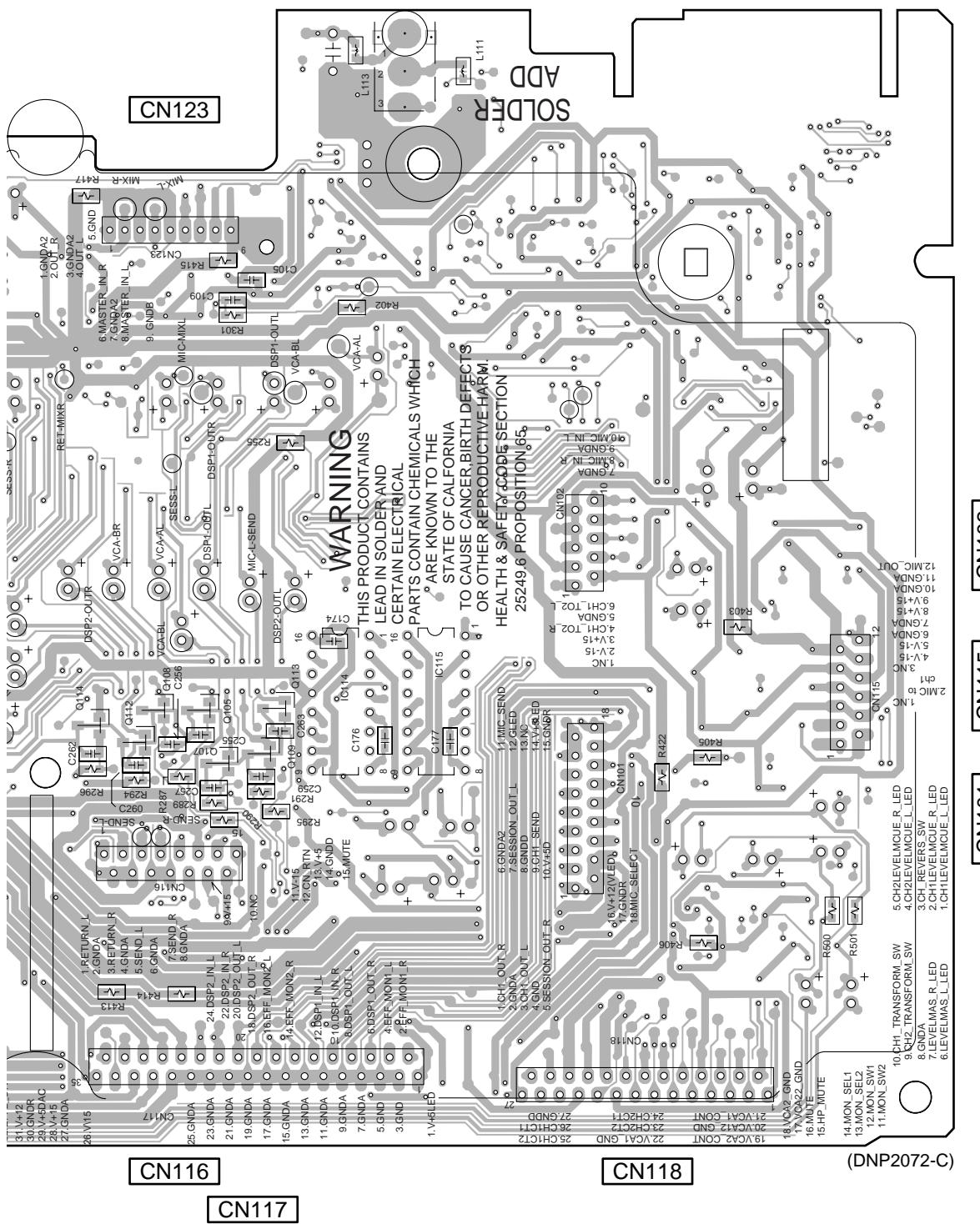
IC117

Q106

Q114 Q11:

**A MAIN ASSY**

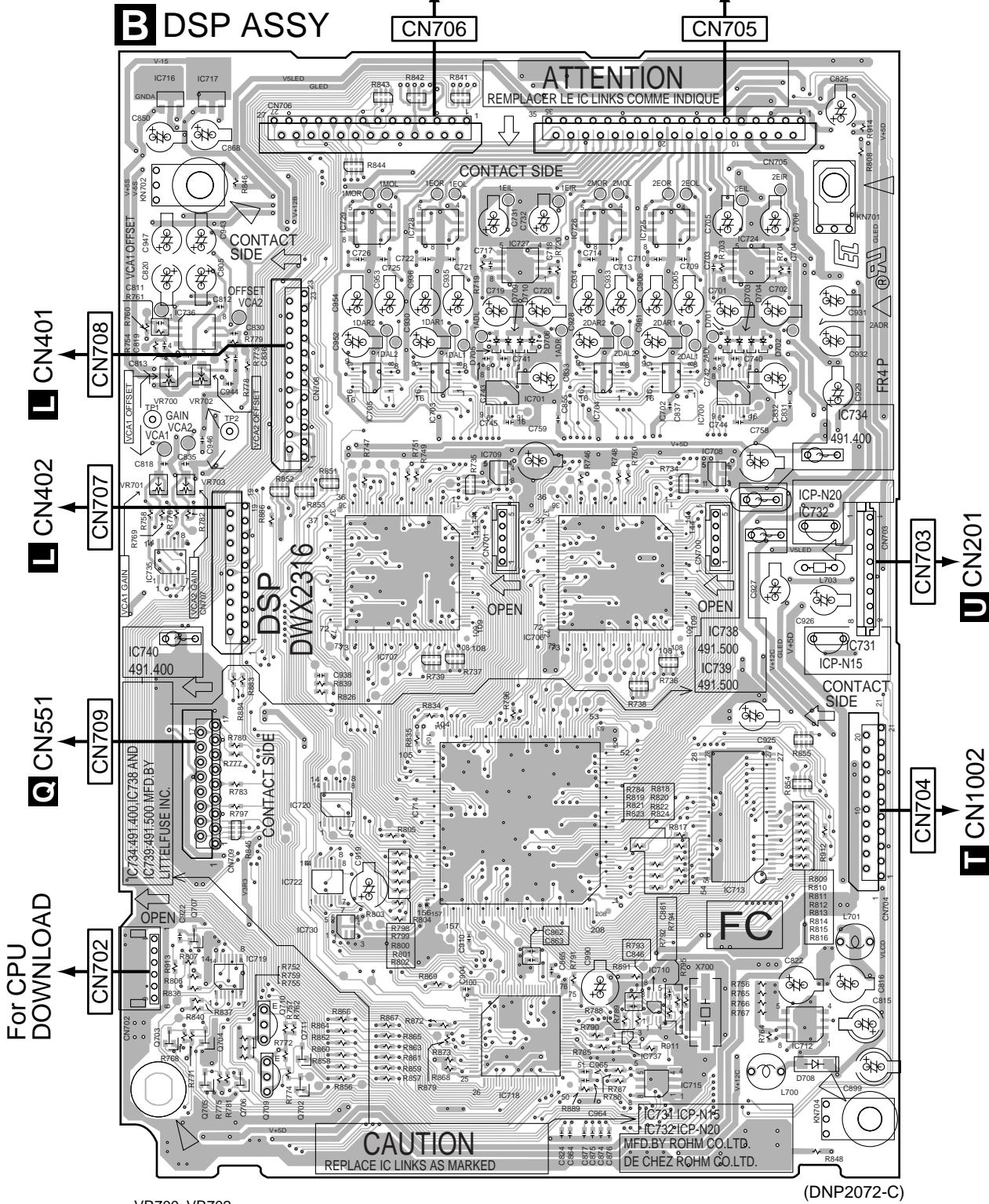
Q108 Q105 Q113 IC114 IC115  
 Q114 Q112 Q107 Q109



## 4.2 DSP ASSY

**SIDE A**

**SIDE A**



|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IC716 | IC717 | IC729 | IC728 | IC727 | IC726 | IC725 | IC724 | IC734 |
| IC736 |       | IC705 | IC703 | IC701 | IC704 | IC702 | IC700 | IC732 |
| IC735 |       | IC707 |       | IC709 |       |       | IC738 | IC731 |
| IC740 |       |       |       | IC714 |       |       | IC739 | IC712 |
| Q707  | IC719 | IC720 | IC722 | IC730 |       |       | IC710 | IC713 |
| Q703  | Q704  | Q710  | Q711  |       |       |       | IC737 |       |
| Q705  | Q706  | Q709  | Q702  |       |       |       | IC715 |       |

**B**

**SIDE B****SIDE B****B** DSP ASSY

CN705

CN706

CN708

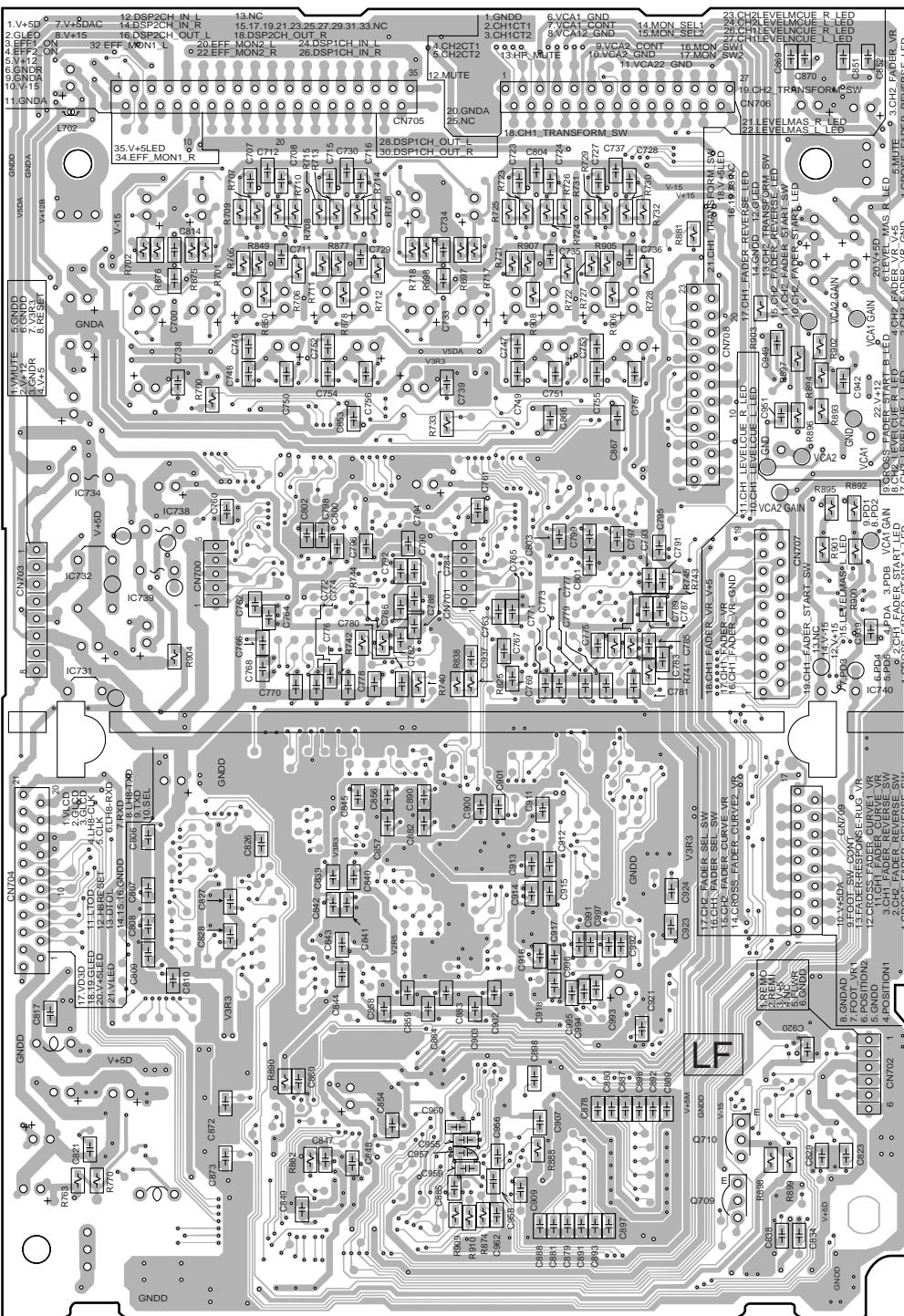
CN707

CN709

CN702

CN703

CN704



(DNP2072-C)

IC734  
IC732  
IC731Q710  
Q709

IC740

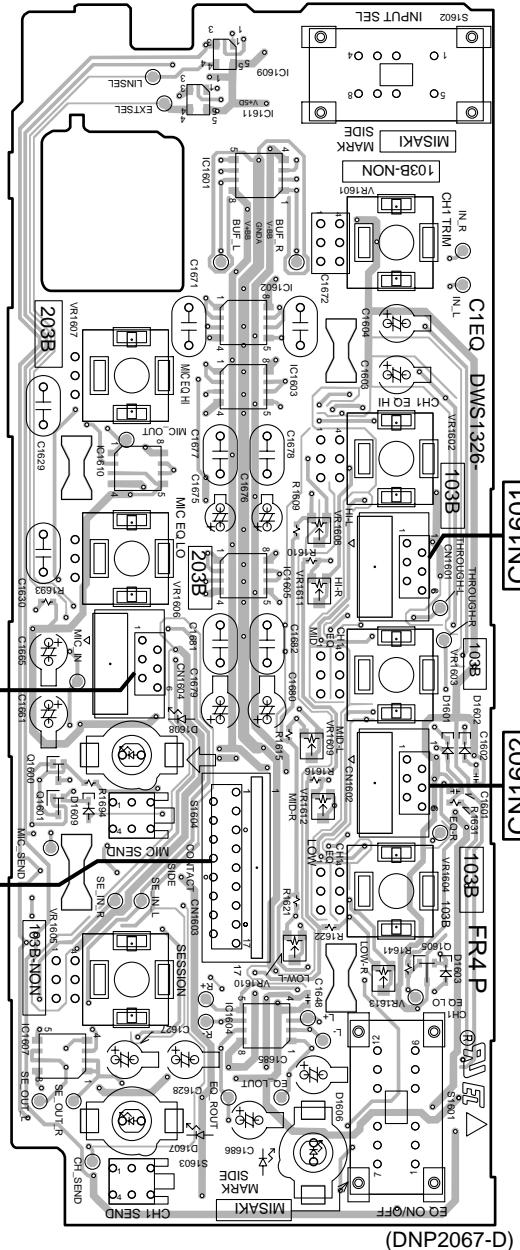
**B****B**

## 4.3 C1EQ ASSY

**SIDE A**

**E CN1255**   **G CN1604**

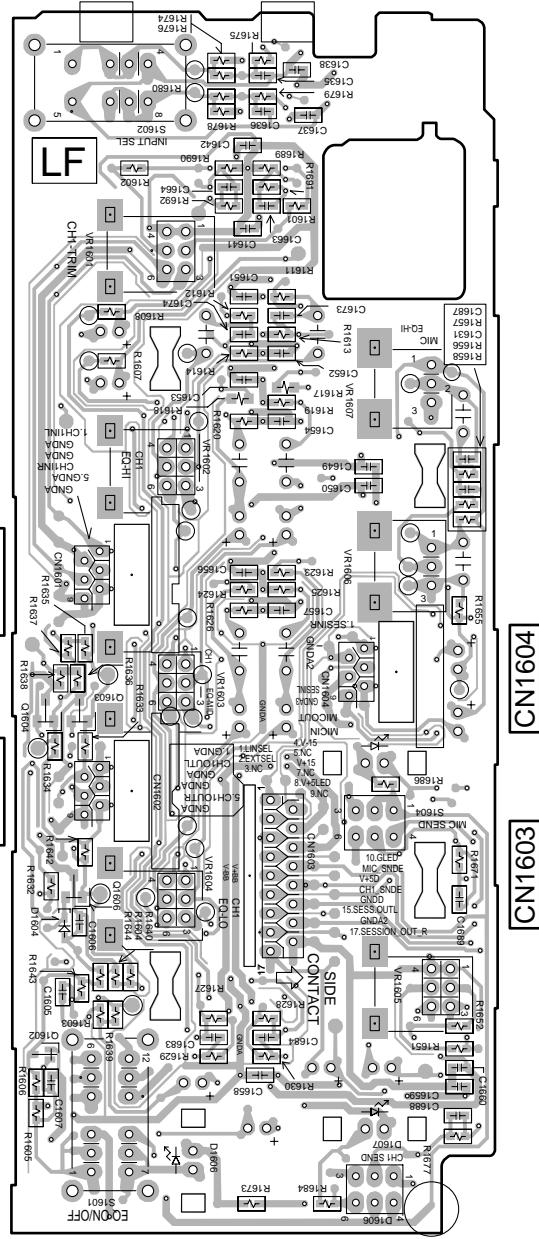
### C C1EQ ASSY



VR1607  
VR1608  
VR1609  
VR1610  
VR1611  
VR1612  
VR1613  
VR1605  
VR1606  
VR1601  
VR1602  
VR1603  
VR1604  
VR1605  
VR1606  
IC1609  
IC1611  
IC1601  
IC1602  
IC1603  
IC1604  
Q1600  
Q1601  
Q1602  
IC1610  
IC1605  
IC1604  
Q1605

**E CN1253**   **E CN1602**

### C C1EQ ASSY



VR1601  
VR1602  
VR1603  
VR1604  
VR1605  
Q1606  
Q1602

**C**

**C**

## 4.4 C2EQ ASSY

SIDE A

SIDE B

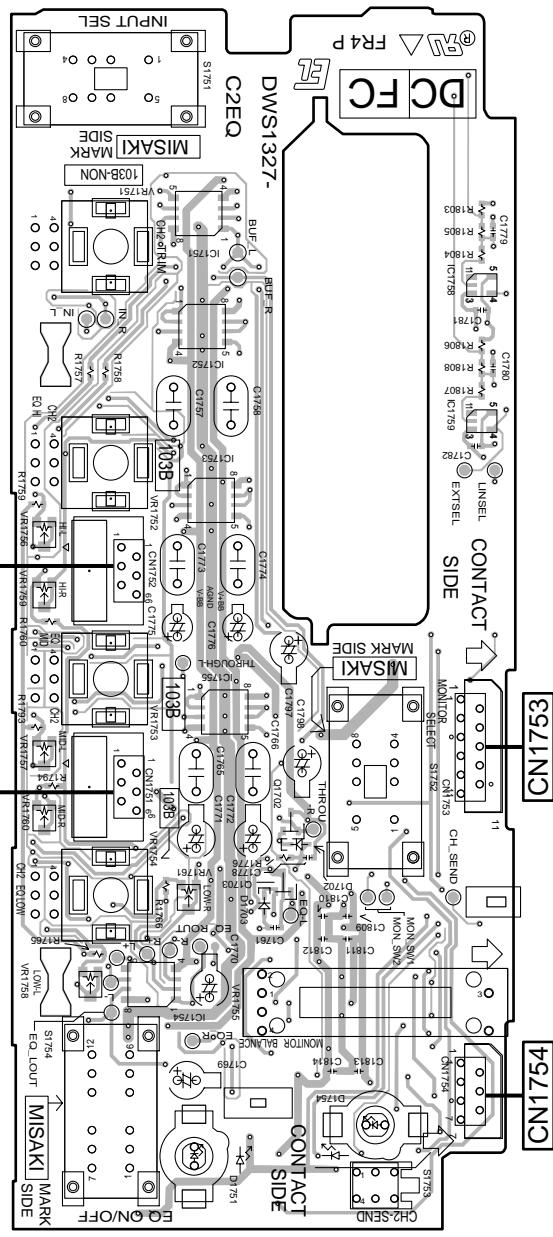
F CN1353

CN1751

F CN1354

CN1752

D C2EQ ASSY



VR1751  
VR1752  
VR1756 VR1753  
VR1759  
VR1757 VR1754  
VR1760 VR1758

IC1751  
IC1752  
IC1753  
IC1755 Q1702  
Q1703

IC1754  
VR1755

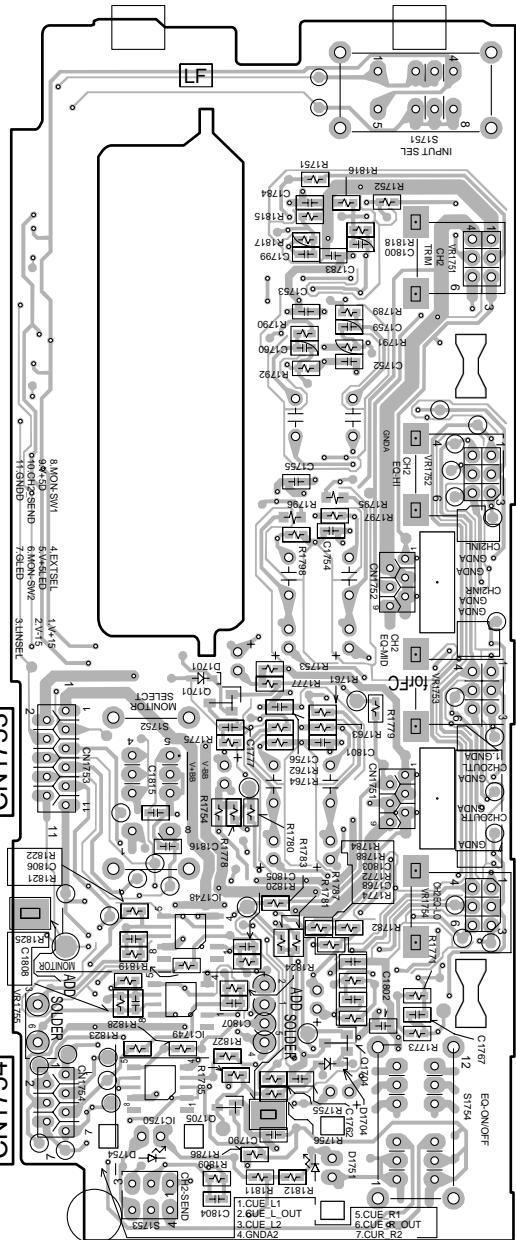
F CN1355

CN1753

H CN1453

CN1754

D C2EQ ASSY



VR1751  
VR1752  
VR1753  
VR1754

IC1748  
IC1749 Q1701  
IC1750 Q1705

Q1704

D

# 4.5 C1BF ASSY

A

**SIDE A**

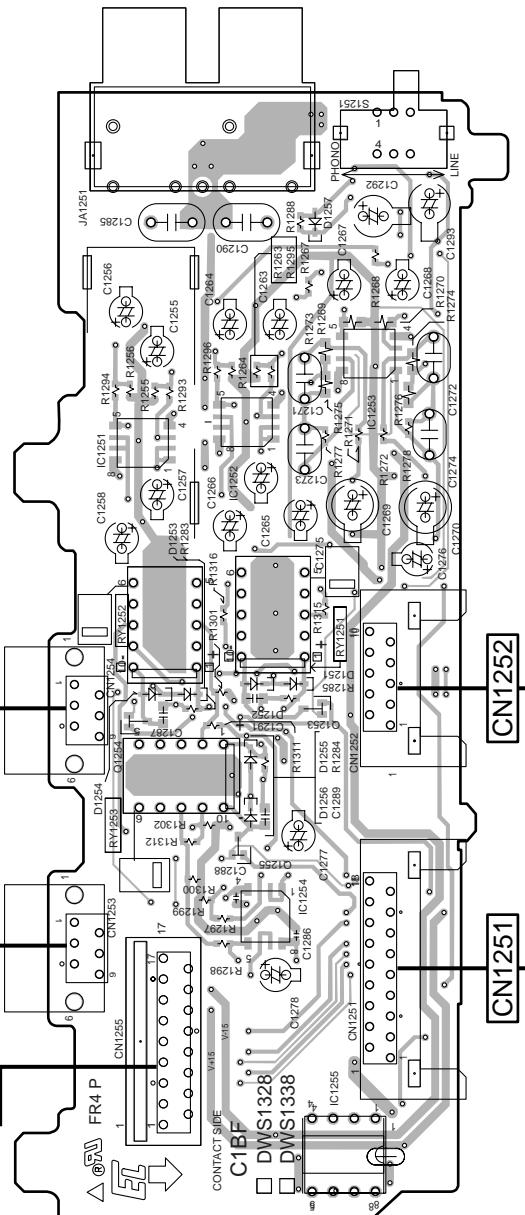
3

**SIDE B**

## E C1BF ASSY

**C** CN1601

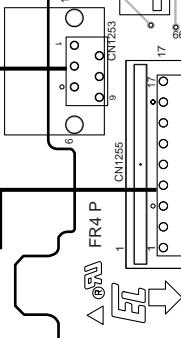
CN1254

**A** CN102

CN1251

**C** CN1602

CN1253



## E C1BF ASSY

88

1

2

3

4

DJM-909

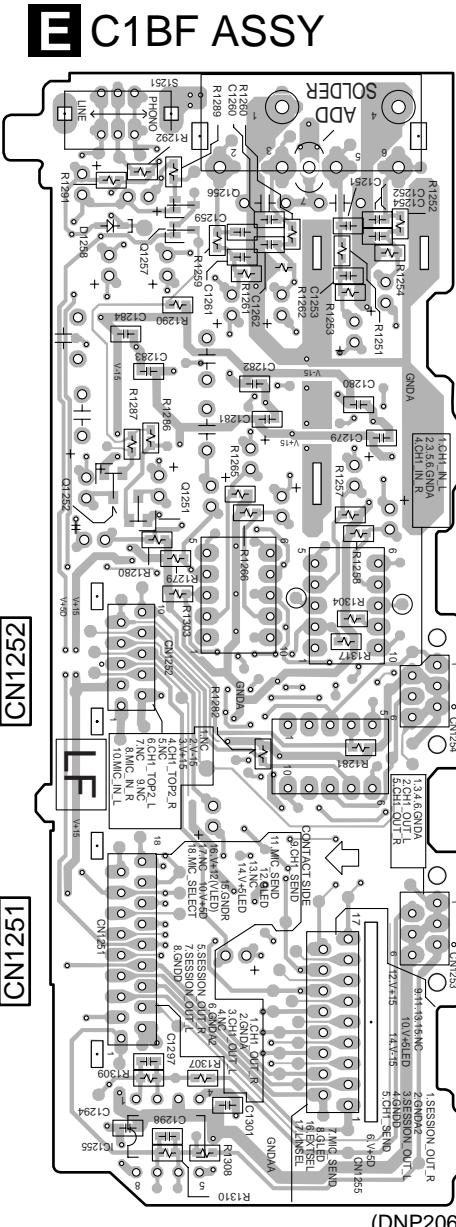


B

C

D

E



CN1254

CN1253 CN1255

(DNP2068-C)

IC1251 Q1254  
IC1252 Q1255  
IC1253 Q1254  
IC1255 IC1255

Q1256 Q1257  
Q1252 Q1251

4

## 4.6 C2BF ASSY

**SIDE A**

**SIDE B**

**D CN1752**

**D CN1751**

**D CN1753**

**CN1354**

**CN1353**

**CN1355**

IC1351  
Q1354

IC1352  
Q1355  
IC1353

**C2BF**  
**DWS1329**  
**DWS1330**

(DNP2068-C)

**F C2BF ASSY**

**A CN127**

**CN1351**

Q1356  
Q1357  
Q1352  
Q1351

**CN1354**  
**CN1355**  
**CN1353**

(DNP2068-C)

**F C2BF ASSY**

**F**

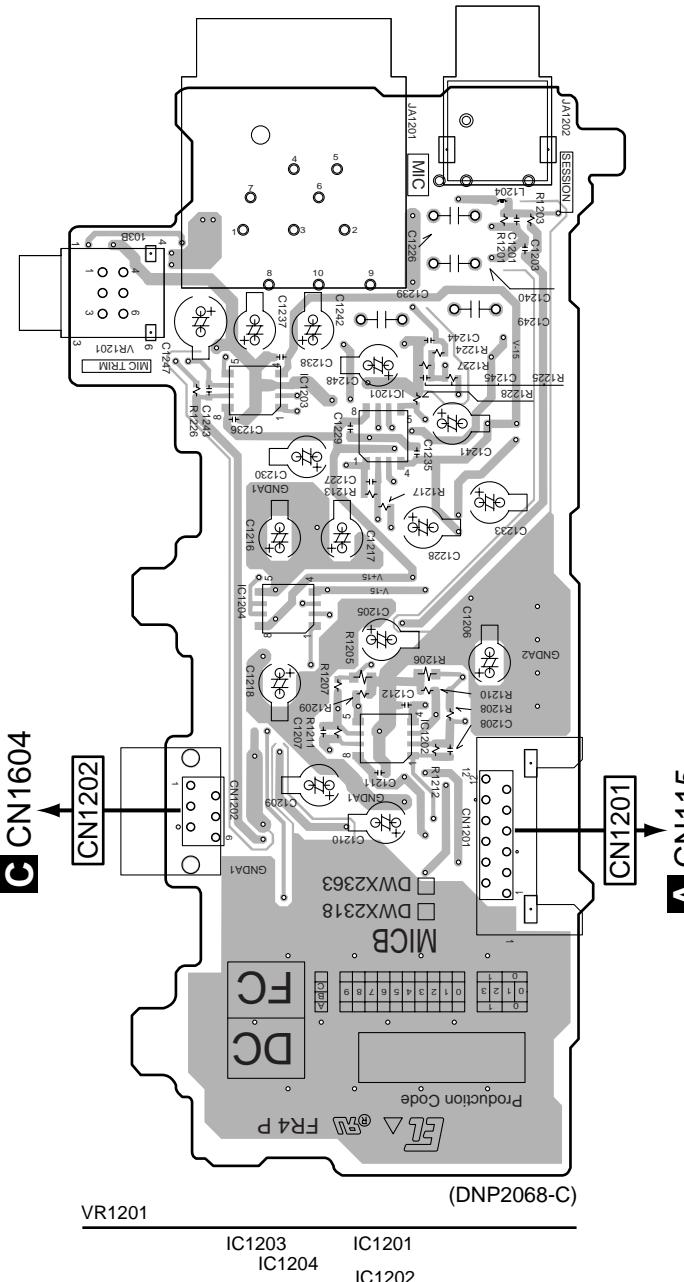
89

## 4.7 MICB ASSY

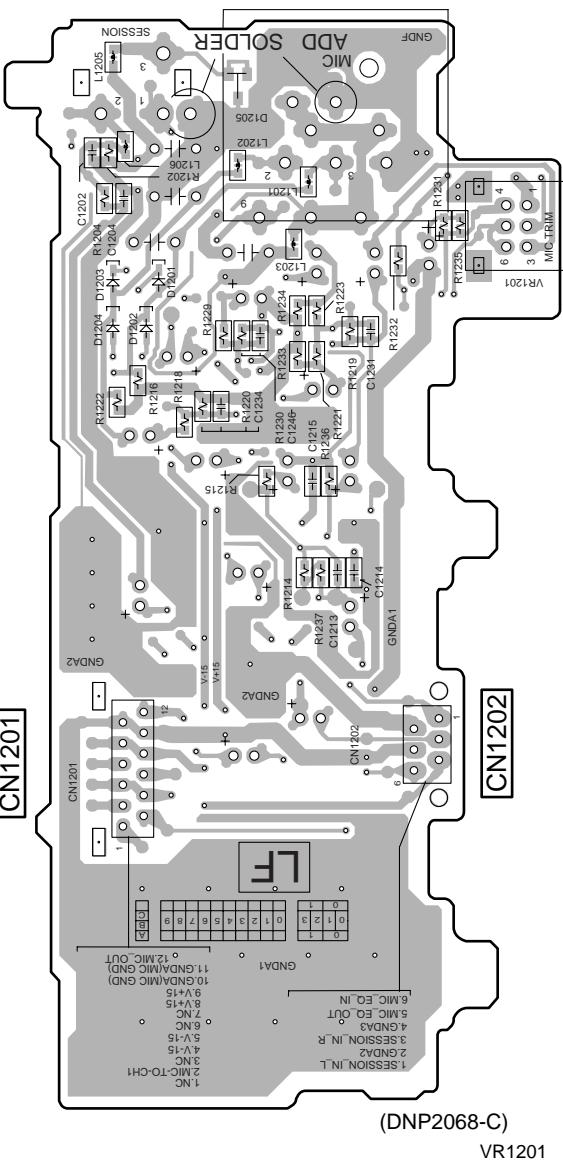
**SIDE A**

**SIDE B**

### G MICB ASSY



### G MICB ASSY



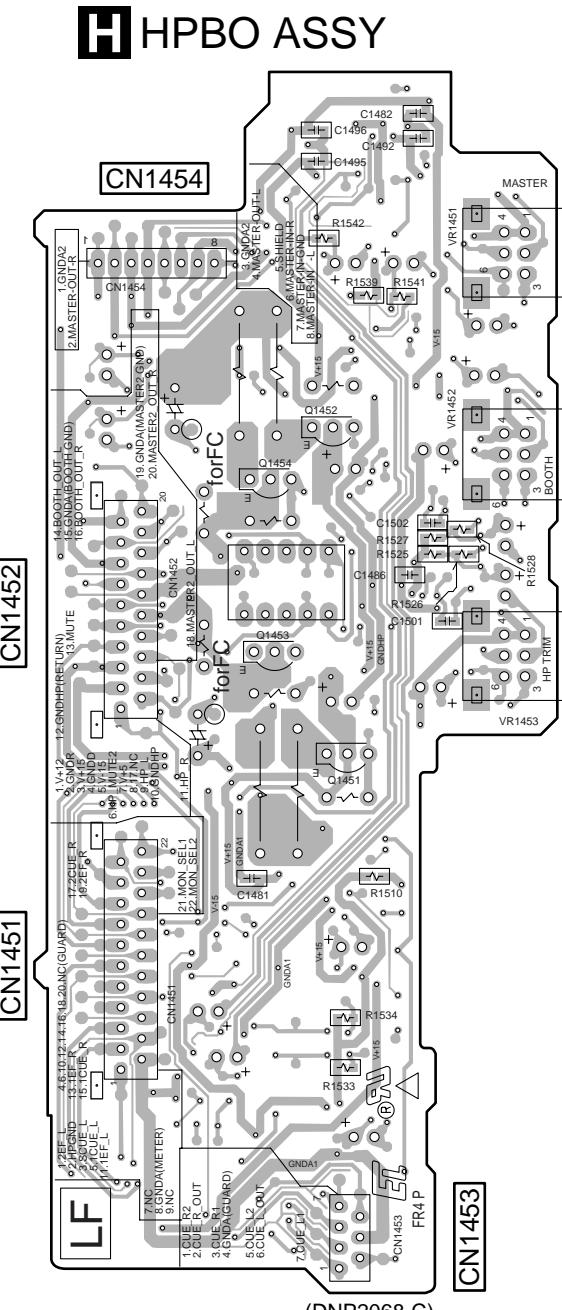
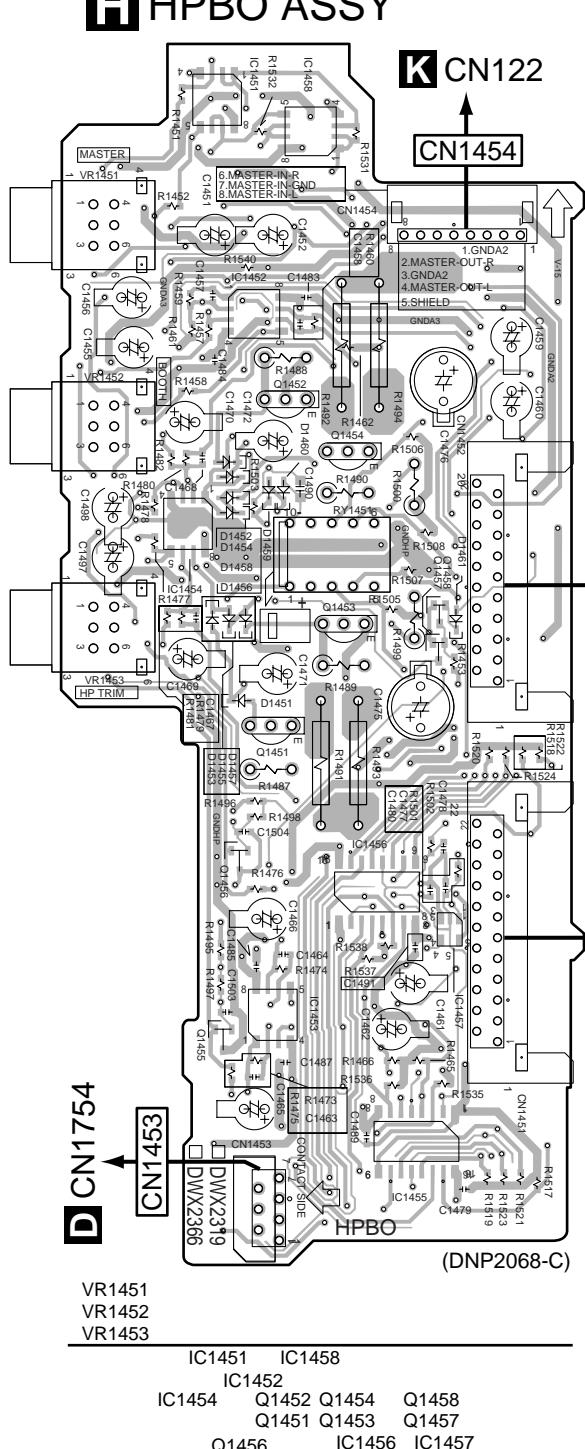
**G**

**G**

## 4.8 HPBO ASSY

**SIDE A**

**SIDE B**

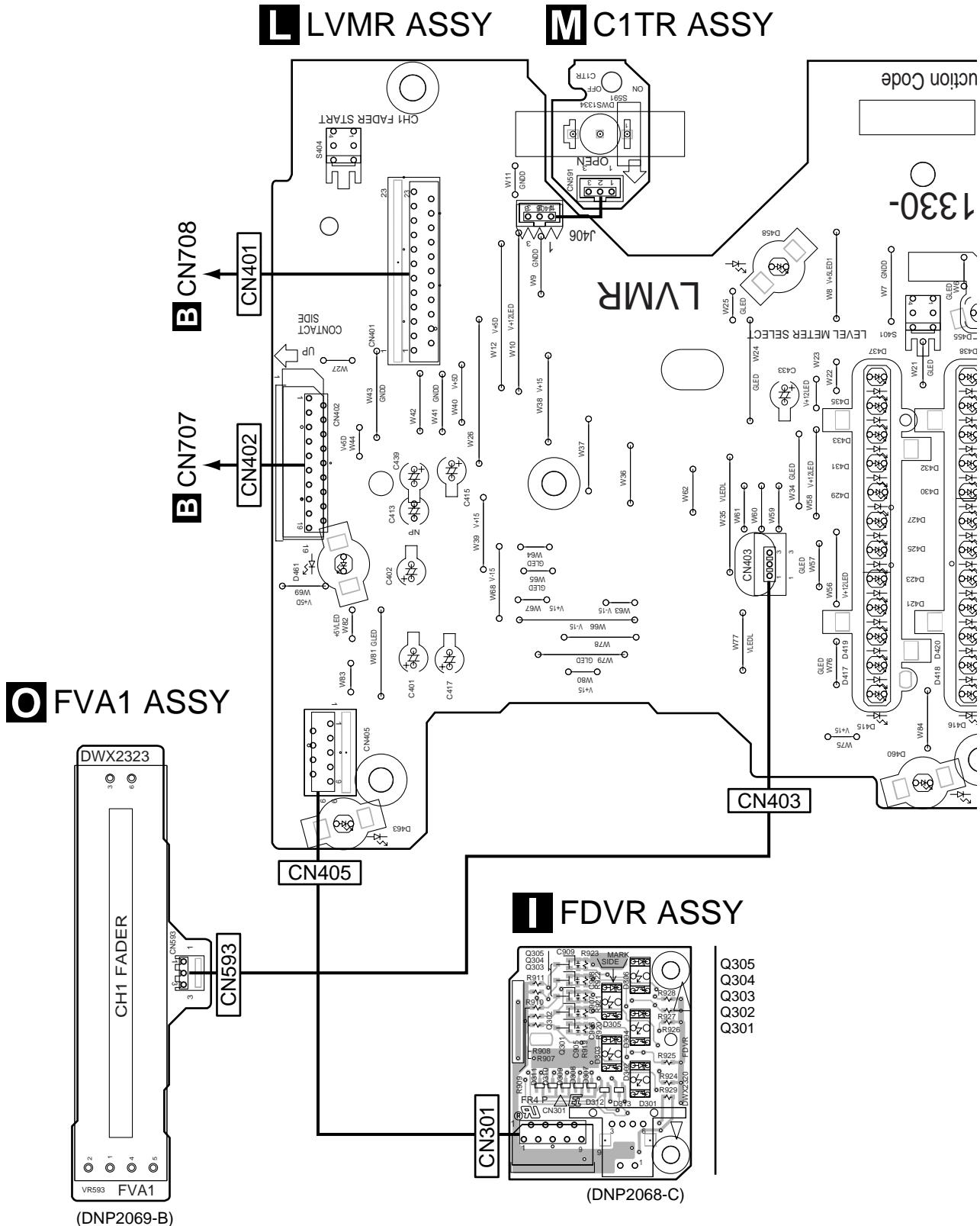


**H**

**H**

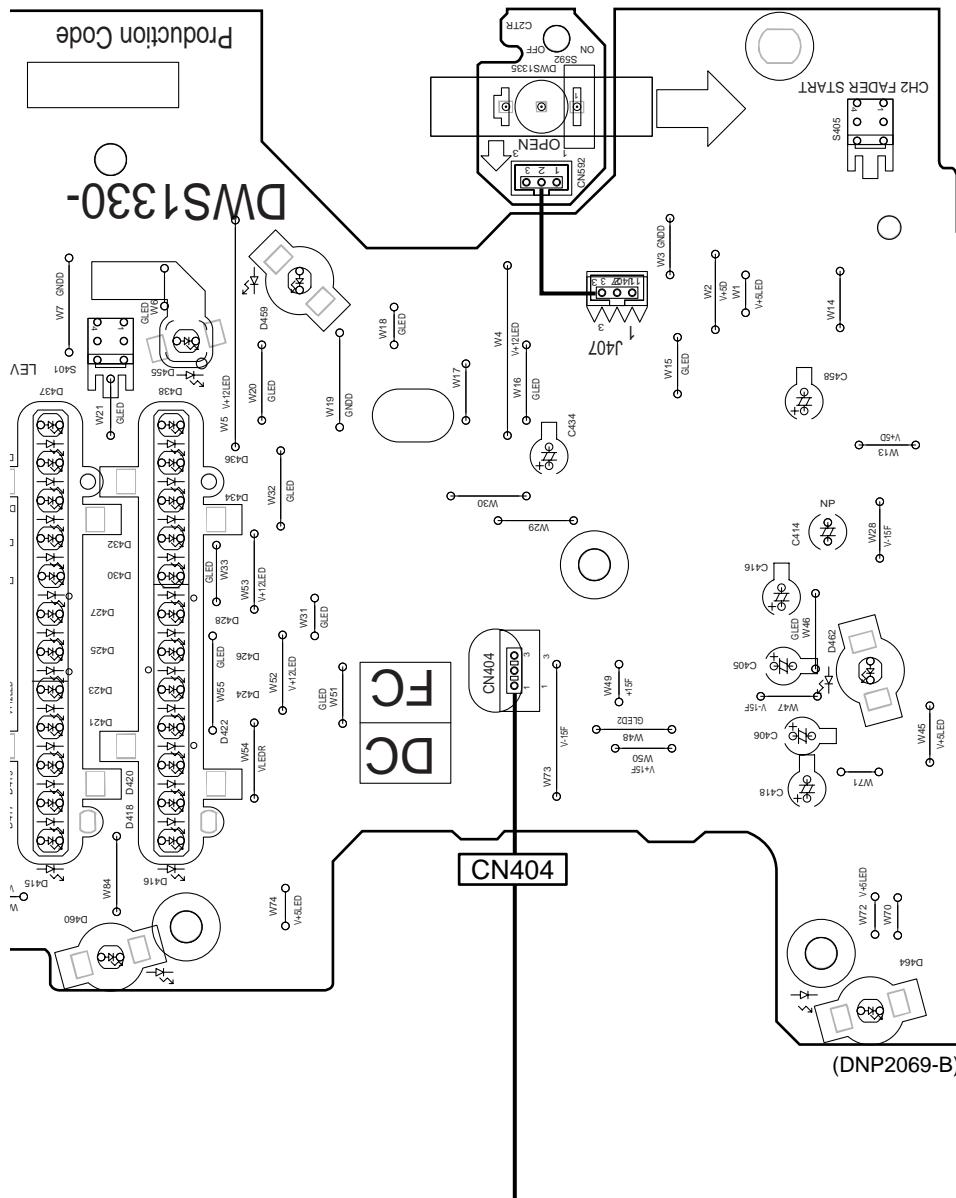
## 4.9 LVMR, C1TR, C2TR, FVA1, FVA2 and FDVR ASSYS

**SIDE A**

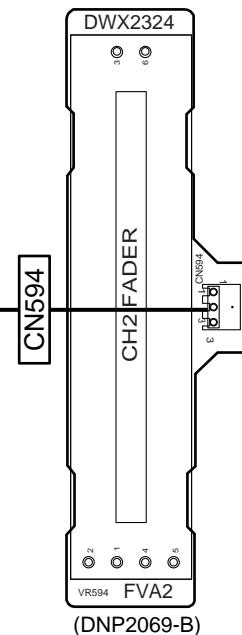


**SIDE A**

# N C2TR ASSY



# P FVA2 ASSY

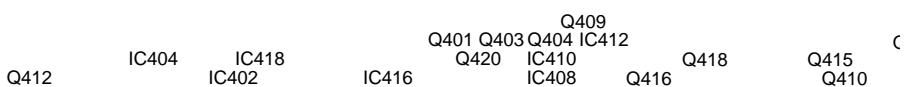


**L N P**

## 4.10 LVMR, C1TR, C2TR, FVA1, FVA2 and FDVR ASSYS

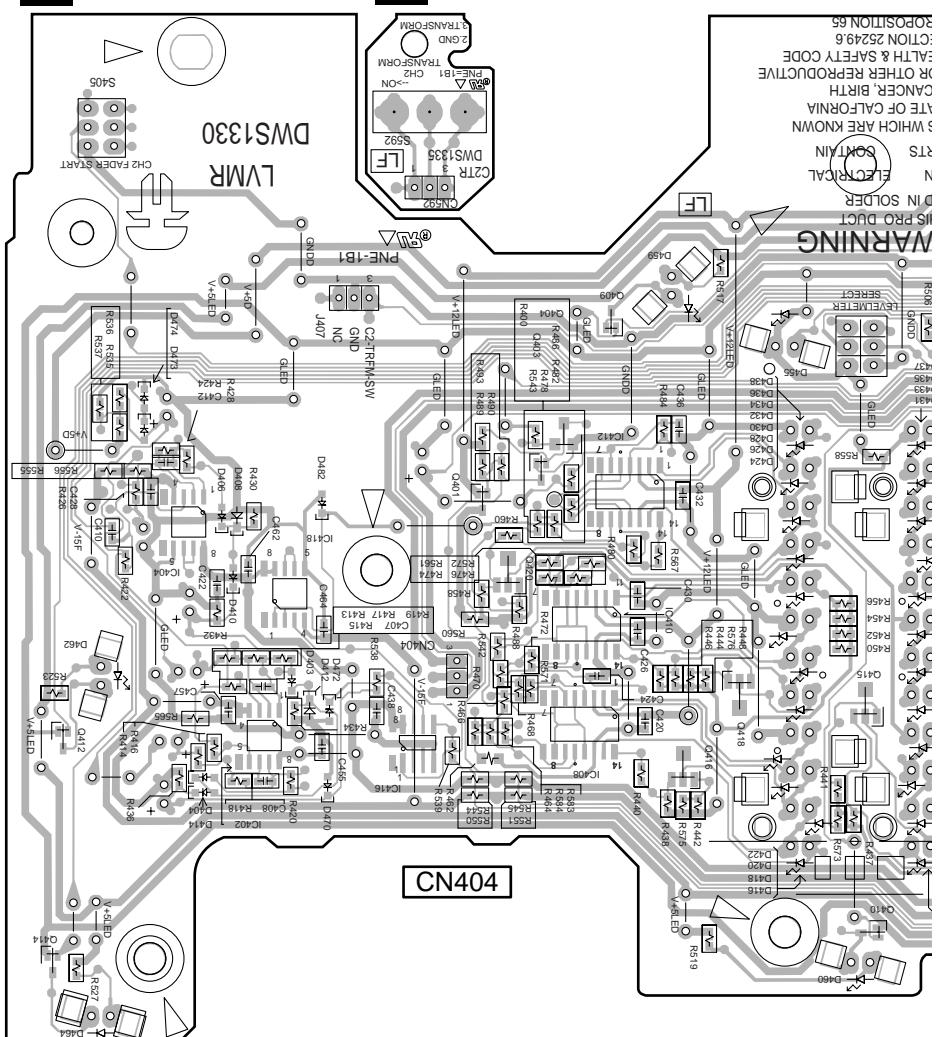
A

**SIDE B**



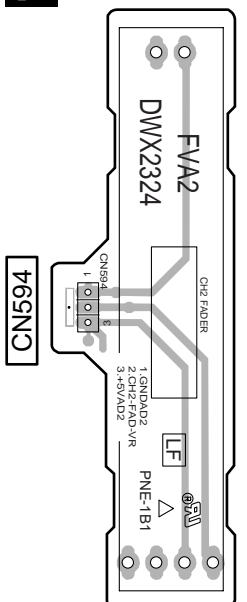
B

**L LVMR ASSY**      **N C2TR ASSY**



C

**P FVA2 ASSY**



(DNP2069-B)

D

E

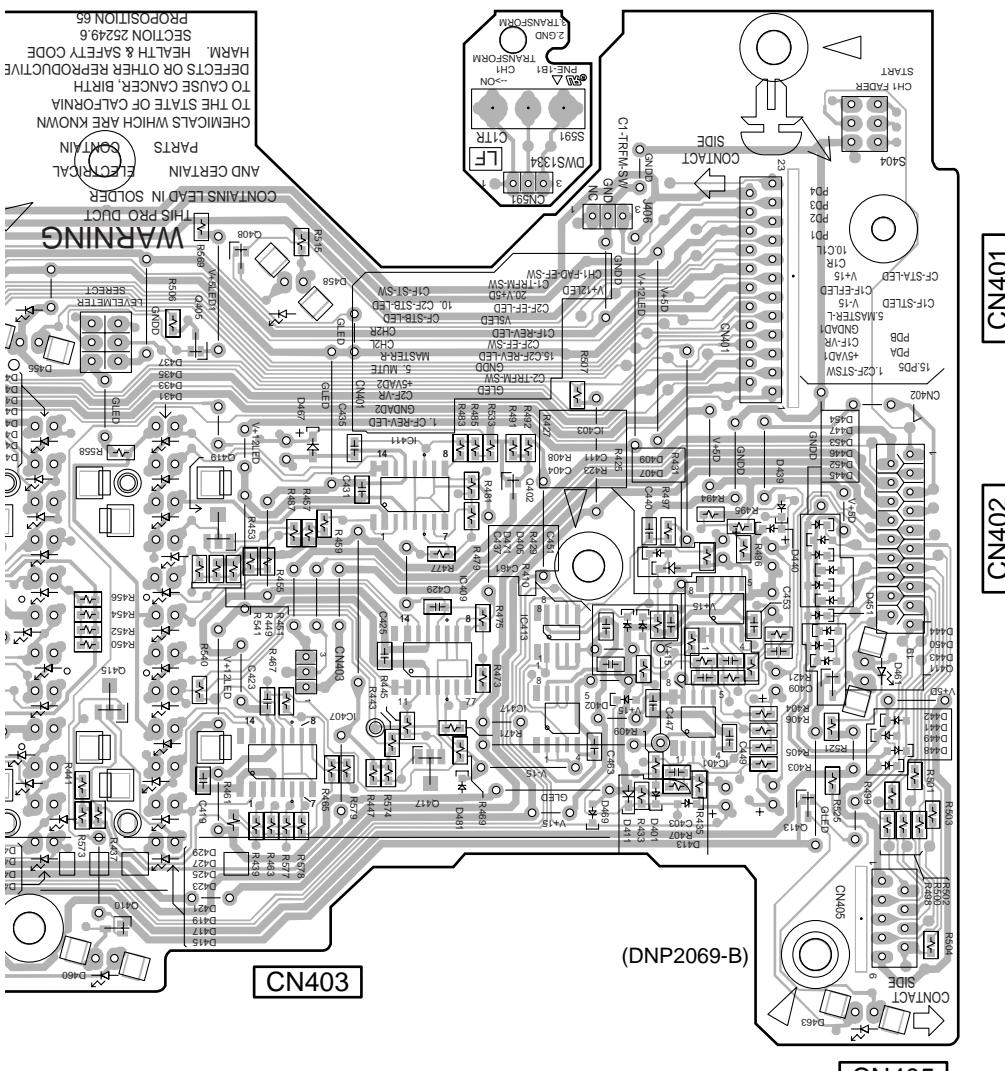
F

**L N P**

**SIDE B**

Q415 Q405 Q408  
Q410 Q419 IC407  
IC411 IC409 Q417 Q402 IC413  
IC417 IC401 IC403  
Q413 Q411

## M C1TR ASSY

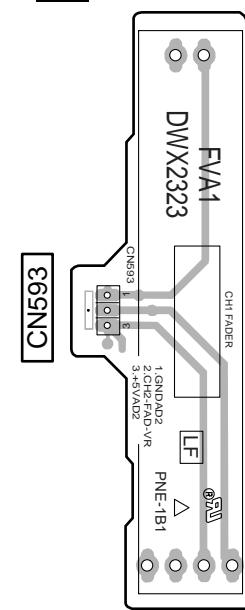


CN401

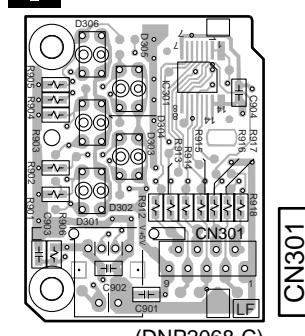
CN402

CN405

## O FVA1 ASSY



IC301

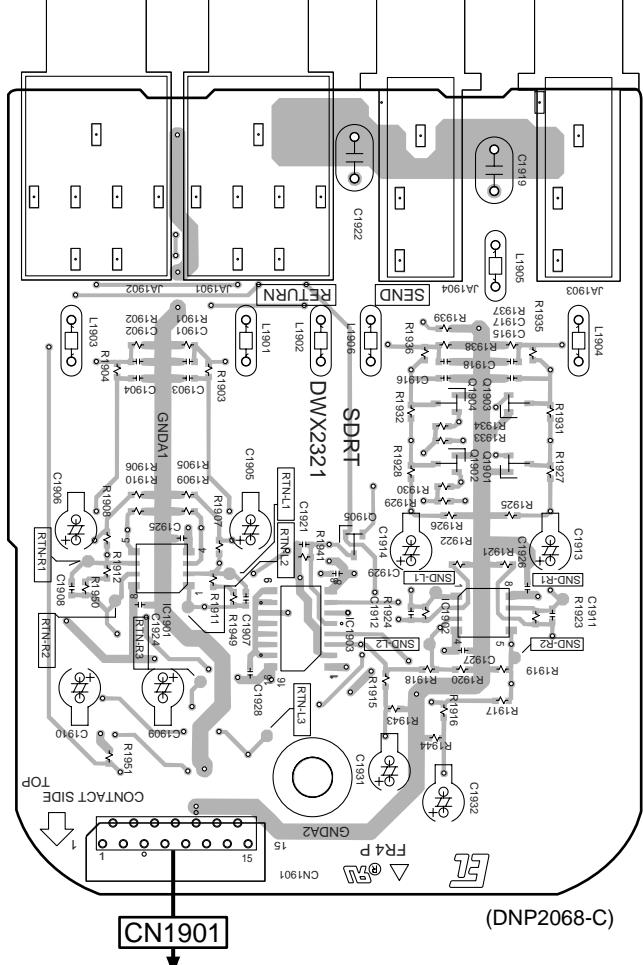


CN301

## 4.11 SDRT ASSYS

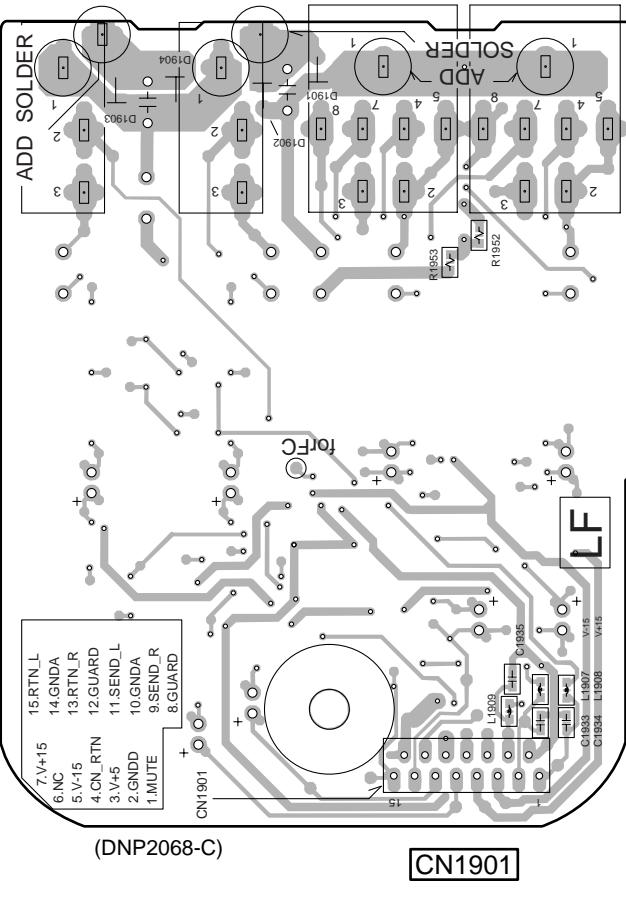
**SIDE A**

**J SDRT ASSY**



**SIDE B**

**J SDRT ASSY**



IC1901 Q1905 Q1904 Q1902 Q1903  
IC1903 IC1901 IC1902 IC1901 IC1902

**J**

**J**

## 4.12 XLR ASSY

SIDE A

**K** XLR ASSY

SIDE A

Q122 Q126 Q121 Q125  
Q120 Q124 Q119 Q123

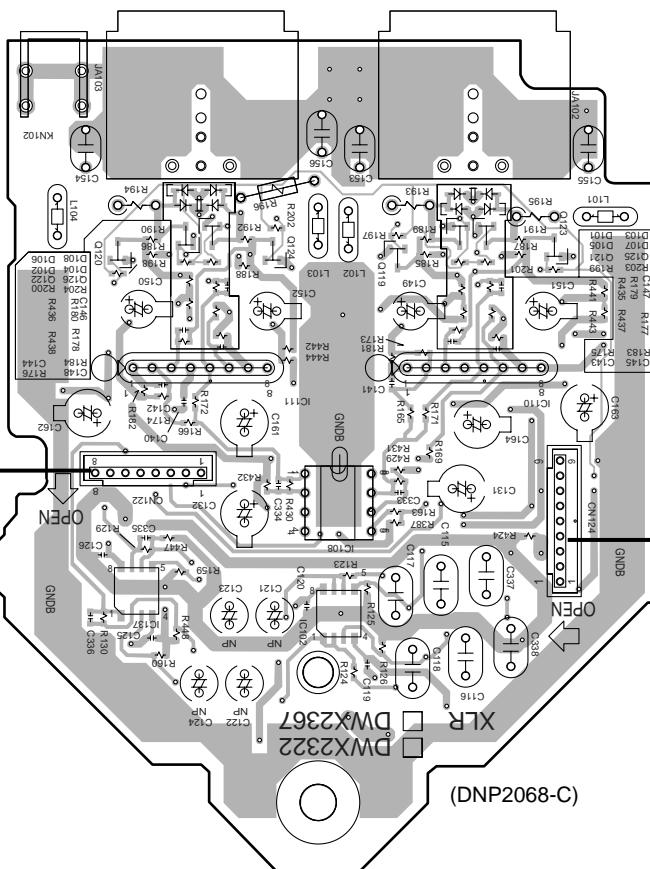
IC111 IC110

IC108

IC137

IC102

**H** CN1454



(DNP2068-C)

**A** CN124

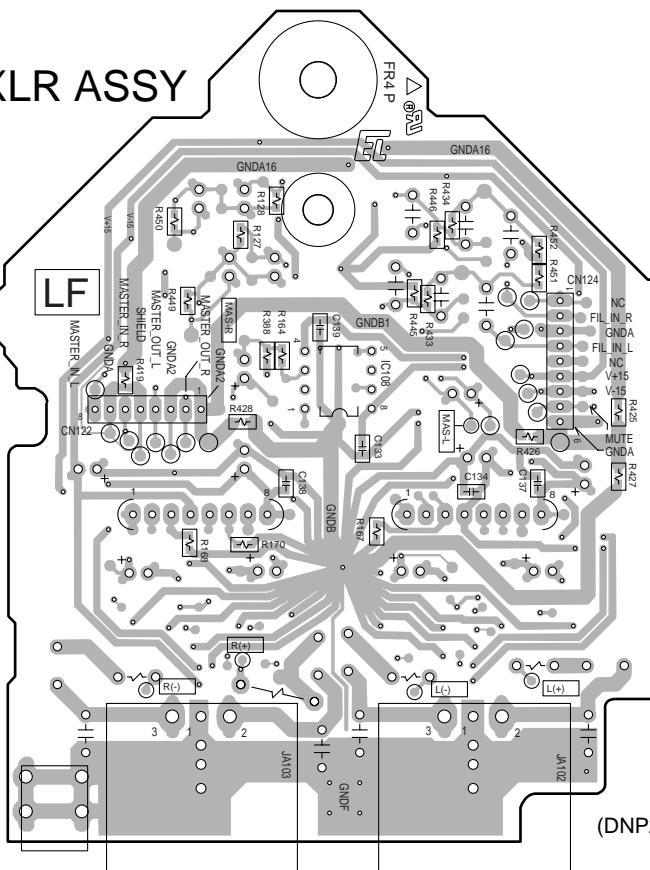
SIDE B

**K** XLR ASSY

SIDE B

IC108

CN122



(DNP2068-C)

**C** CN124

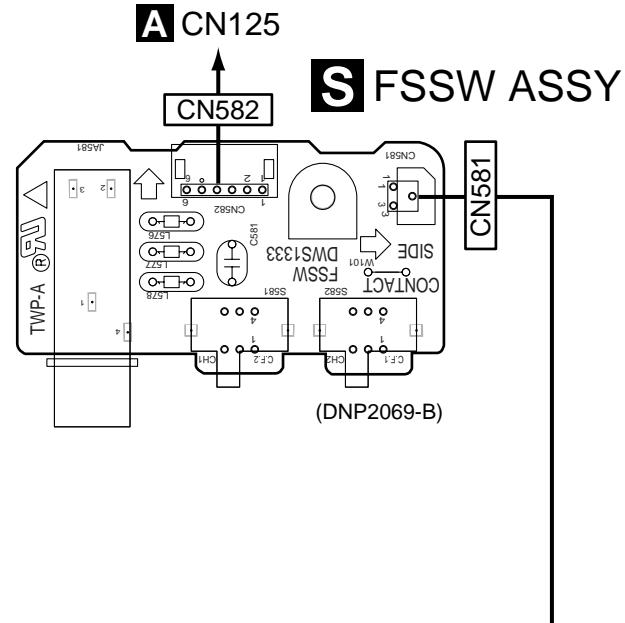
**K**

**K**

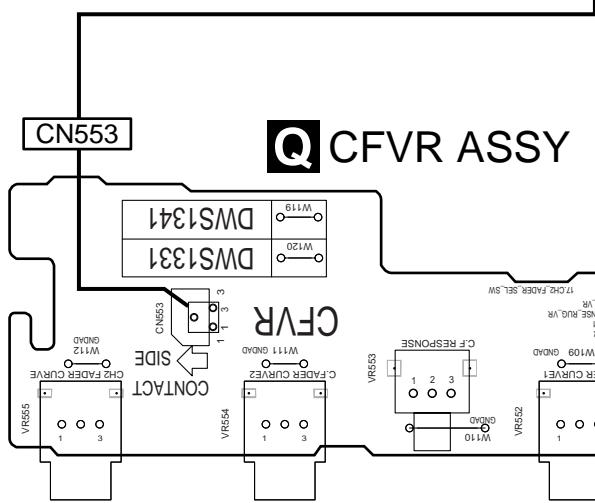
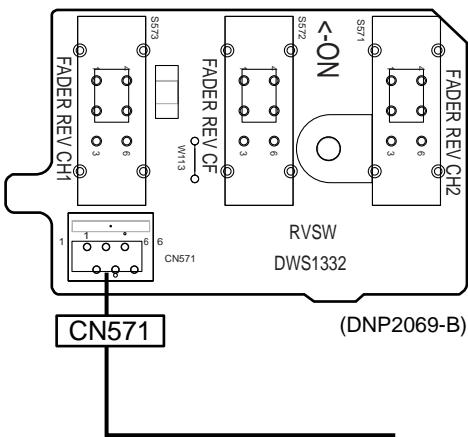
## 4.13 CFVR, RVSW and FSSW ASSYS

**SIDE A**

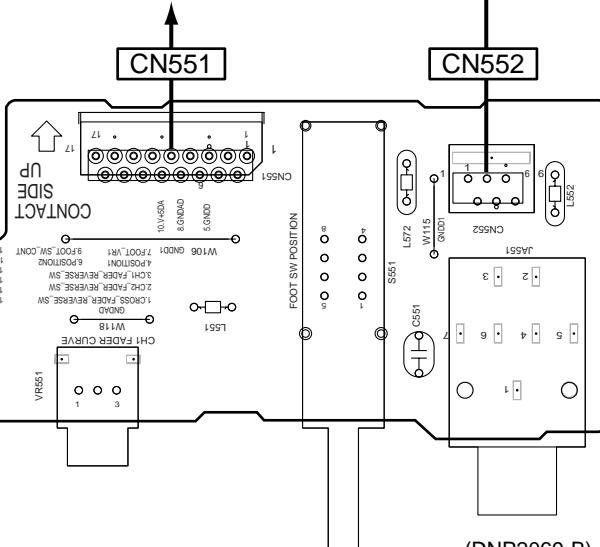
**SIDE A**



**R RVSW ASSY**

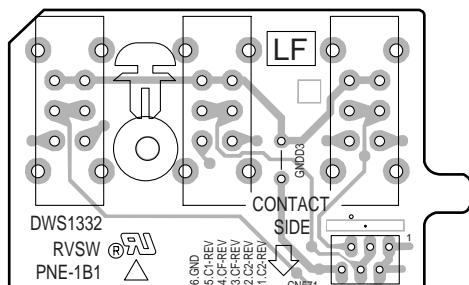


**B CN709**

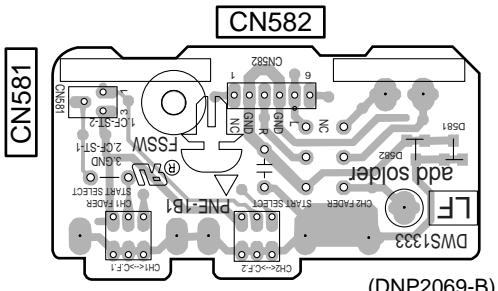


**Q R S**

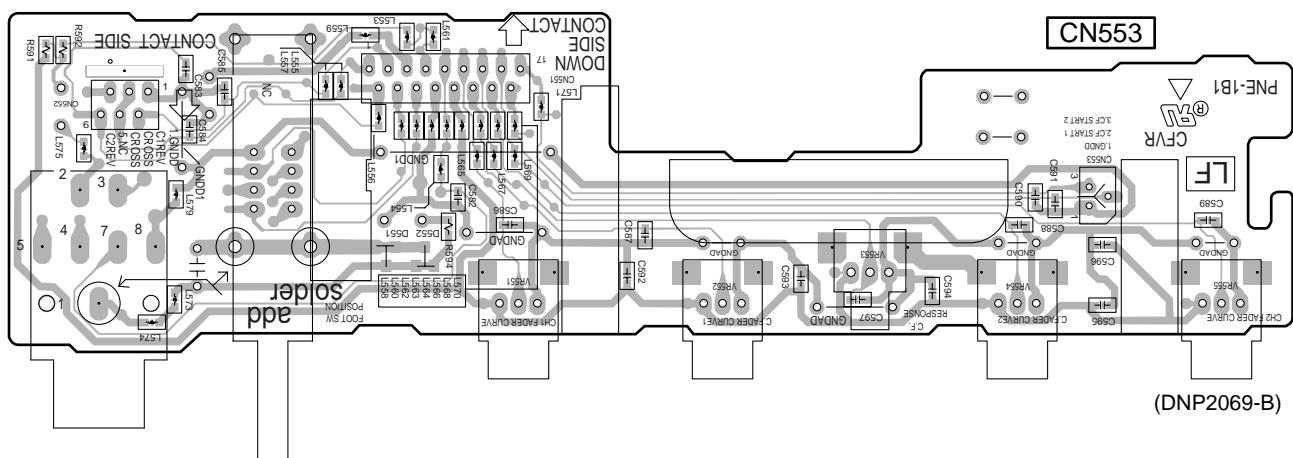
**Q R S**

**SIDE B****SIDE B****R RVSW ASSY**

(DNP2069-B)

**CN571****S FSSW ASSY**

(DNP2069-B)

**CN552****CN551****Q CFVR ASSY**

(DNP2069-B)

**QRS****QRS**

## 4.14 LCD ASSY

**SIDE A**

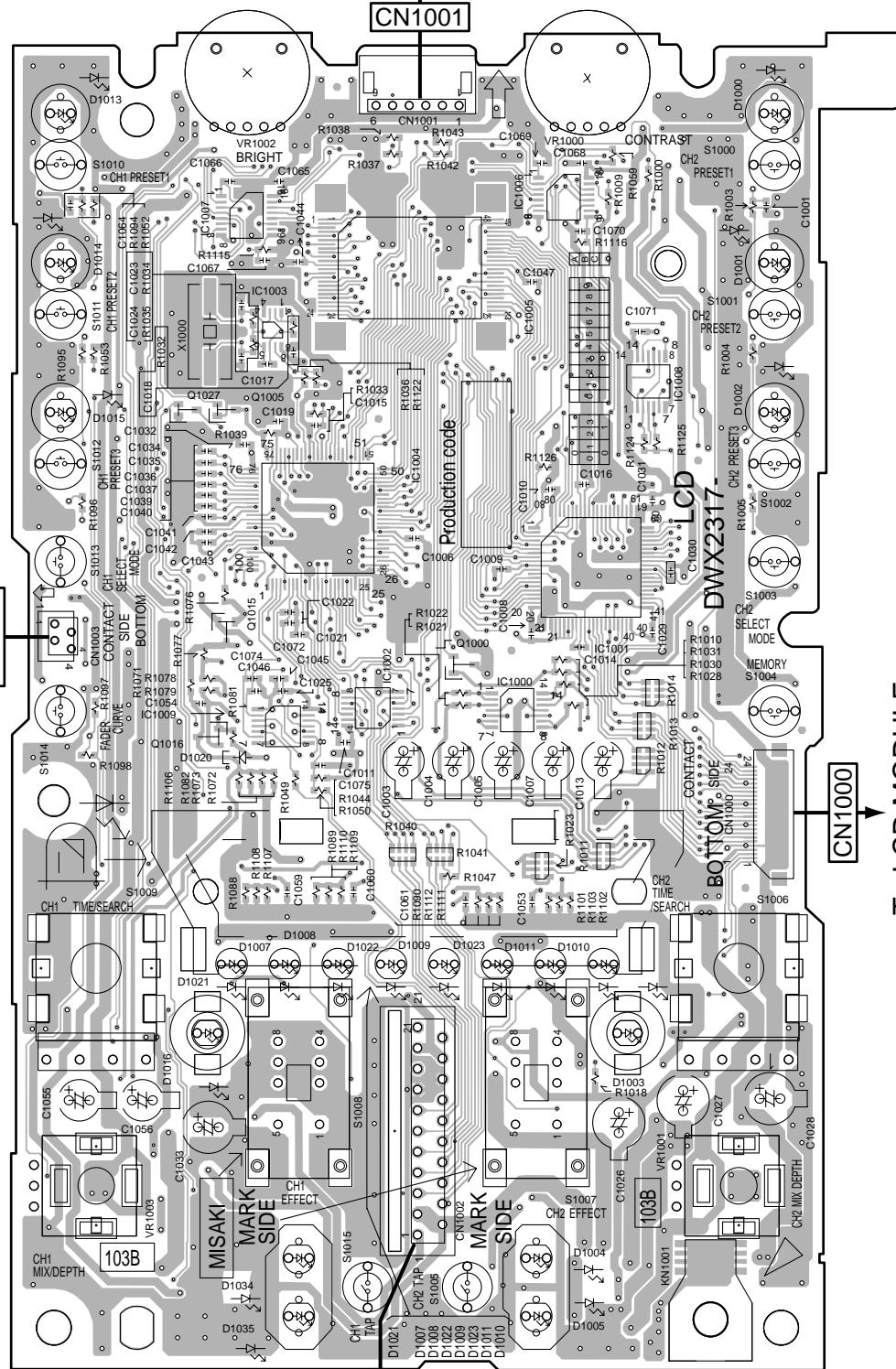
**SIDE A**

To TOUCH PANEL

CN1003

For CPU DOWNLOAD

**T** LCD ASSY



To LCD MODULE

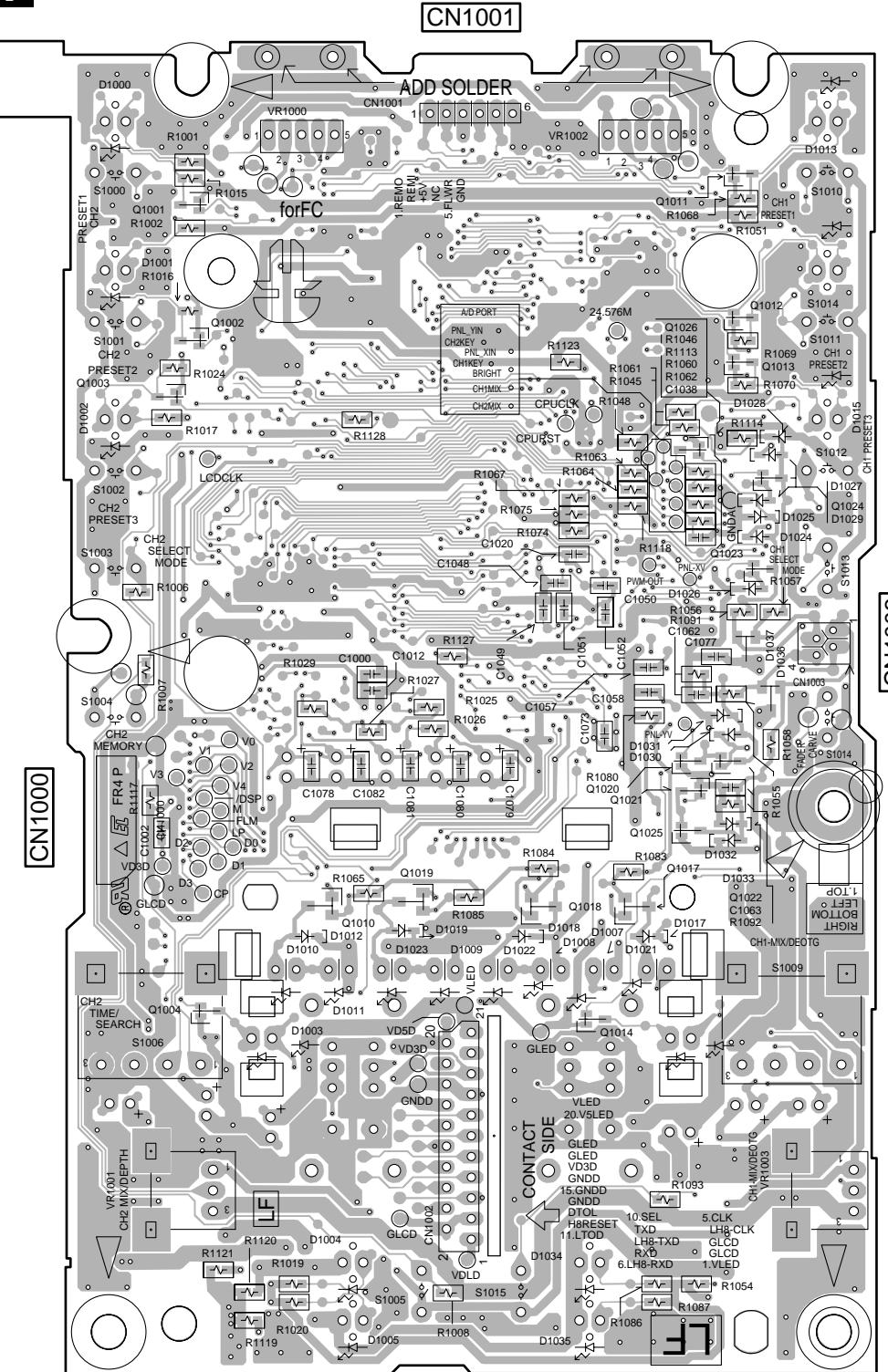
CN1000

(DNP2067-D)

**B** CN704

**SIDE B****SIDE B**

A

**T LCD ASSY****CN1002**

(DNP2067-D)

**T**

101

B

VR1000  
VR1002

Q1011

Q1012  
Q1002

Q1013

Q1003

Q1023  
Q1024Q1020  
Q1022

Q1021

Q1025

Q1010 Q1018  
Q1019 Q1017

Q1004 Q1014

VR1001  
VR1003

C

D

E

F

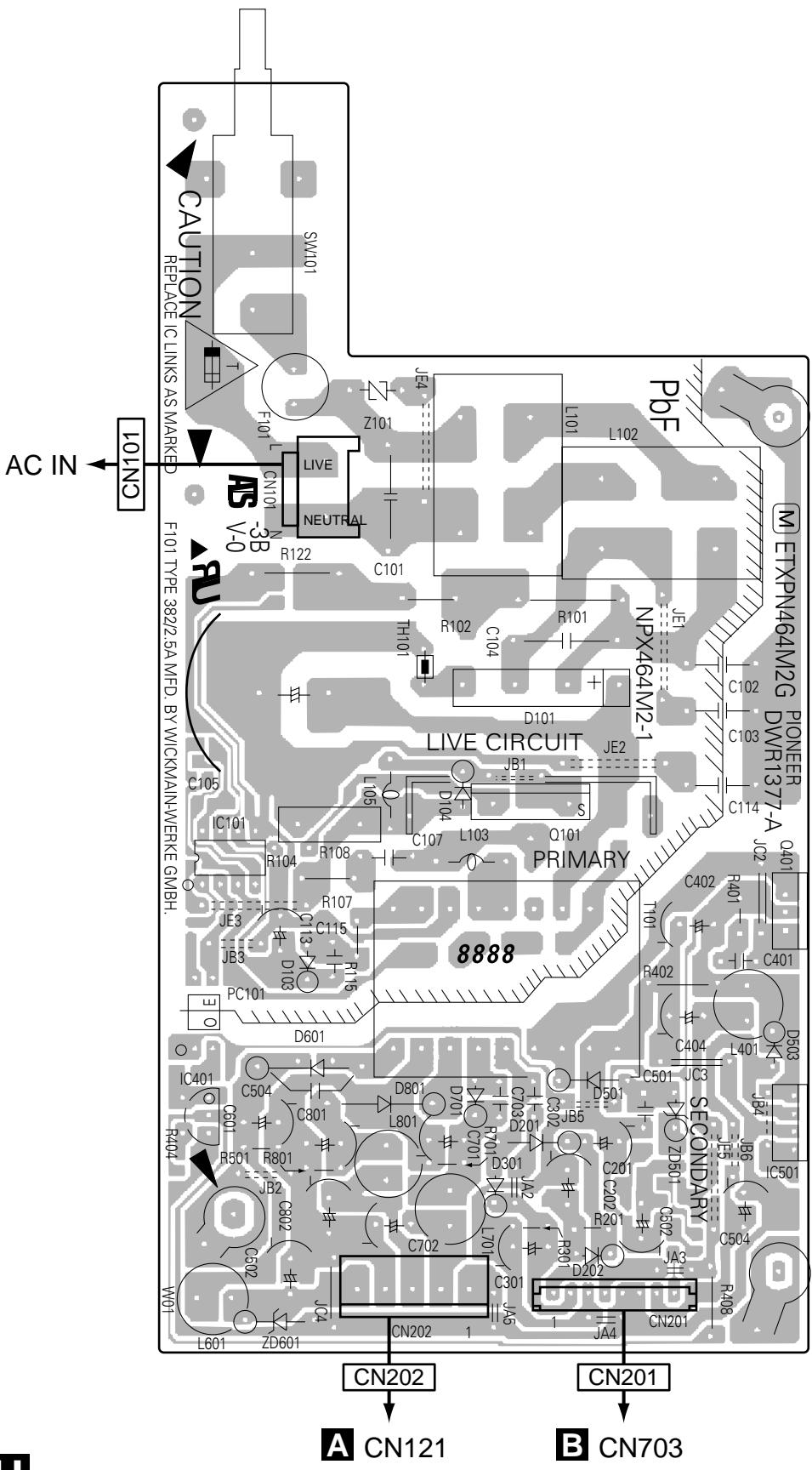
G

## 4.15 SW POWER SUPPLY

**SIDE A**

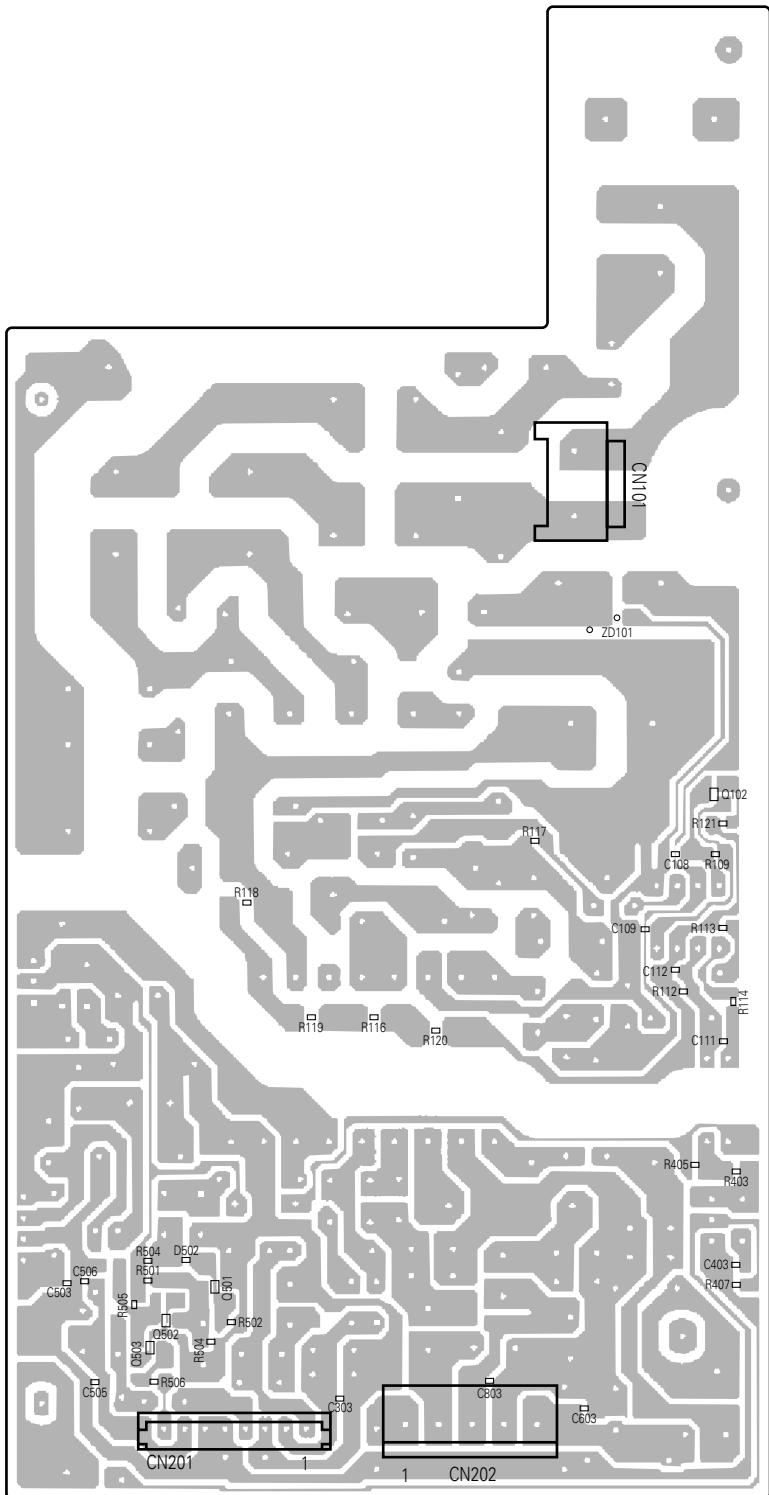
**SIDE A**

### U SW POWER SUPPLY



**SIDE B****SIDE B****U SW POWER SUPPLY**

Q102

Q501  
Q502  
Q503

CN201

CN202

**U****U**

## 5. PCB PARTS LIST

- A**
- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
  - The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
  - When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
- |       |   |                      |       |     |       |               |
|-------|---|----------------------|-------|-----|-------|---------------|
| 560 Ω | → | 56 × 10 <sup>1</sup> | →     | 561 | ..... | RDI/4PU5 6 1J |
| 47k Ω | → | 47 × 10 <sup>3</sup> | →     | 473 | ..... | RDI/4PU4 7 3J |
| 0.5 Ω | → | R50                  | ..... |     |       | RN2H R 5 0K   |
| 1 Ω   | → | IRO                  | ..... |     |       | RS1P R R 0K   |
- Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
- |         |   |                       |   |      |       |                 |
|---------|---|-----------------------|---|------|-------|-----------------|
| 5.62k Ω | → | 562 × 10 <sup>1</sup> | → | 5621 | ..... | RNI/4PC5 6 2 1F |
|---------|---|-----------------------|---|------|-------|-----------------|

| B                                                  | <u>Mark No.</u>                                                                                            | <u>Description</u>                                                                                                                          | <u>Part No.</u>                                                                                                           | <u>Mark No.</u>                                                                                                                                                            | <u>Description</u>                                                                                                           | <u>Part No.</u> |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>LIST OF ASSEMBLIES</b>                          |                                                                                                            |                                                                                                                                             |                                                                                                                           |                                                                                                                                                                            |                                                                                                                              |                 |
|                                                    | NSP                                                                                                        | 1..MOTHER ASSY<br>2..DSP ASSY<br>2..MAIN ASSY                                                                                               | DWM2173<br>DWX2316<br>DWX2337                                                                                             | Q155,Q159,Q161-Q163<br>D109-D115,D117,D119-D121<br>D123,D125-D128,D133-D135<br>D137,D138                                                                                   | DTC124EK<br>1SS355<br>1SS355<br>NNCD6.2MF                                                                                    |                 |
|                                                    | NSP                                                                                                        | 1..EQ ASSY<br>2..C1EQ ASSY<br>2..C2EQ ASSY<br>2..LCD ASSY                                                                                   | DWM2167<br>DWS1326<br>DWS1327<br>DWX2317                                                                                  | <b>COILS AND FILTERS</b><br>L105-L114<br>L101-L104                                                                                                                         | ATL7002<br>VTL1105                                                                                                           |                 |
| C                                                  | NSP                                                                                                        | 1..JACK ASSY<br>2..C1BF ASSY<br>2..C2BF ASSY<br>2..MICB ASSY<br>2..HPBO ASSY<br>2..FDVR ASSY<br>2..SDRT ASSY<br>2..XLR ASSY                 | DWM2168<br>DWS1328<br>DWS1329<br>DWX2318<br>DWX2319<br>DWX2320<br>DWX2321<br>DWX2322                                      | <b>CAPACITORS</b><br>C163,C164,C237,C238<br>C250,C251,C304,C305<br>C335-C342,C353,C354<br>C113,C114<br>C176-C179,C188,C189<br>C312,C313<br>C159-C162,C182,C183             | CCSRCH101J50<br>CCSRCH220J50<br>CCSRCH220J50<br>CCSRCH270J50<br>CCSRCH470J50<br>CCSRCH470J50<br>CEAL100M35                   |                 |
|                                                    | NSP                                                                                                        | 1..SUB ASSY<br>2..LVMR ASSY<br>2..CFVR ASSY<br>2..RVSW ASSY<br>2..FSSW ASSY<br>2..C1TR ASSY<br>2..C2TR ASSY<br>2..FVA1 ASSY<br>2..FVA2 ASSY | DWM2169<br>DWS1330<br>DWS1331<br>DWS1332<br>DWS1333<br>DWS1334<br>DWS1335<br>DWX2323<br>DWX2324                           | C194,C195,C220,C221<br>C224,C225,C228,C229<br>C284-C293,C300-C303<br>C331,C332<br>C186,C187,C196,C197<br>C200,C201,C216,C217<br>C235,C236,C298,C299<br>C306-C309,C329,C330 | CEAL100M35<br>CEAL100M35<br>CEAL100M35<br>CEAL100M35<br>CEAL100M35<br>CEALNP100M35<br>CEAT100M50<br>CEAT100M50<br>CEAT100M50 |                 |
| D                                                  |                                                                                                            | 1..SW POWER SUPPLY ASSY                                                                                                                     | DWR1377                                                                                                                   | C269,C271,C273,C274<br>C276,C277<br>C327,C328<br>C167,C241<br>C294,C295,C321-C324                                                                                          | CEAT101M25<br>CEAT101M25<br>CEAT102M25<br>CFTLA103J50<br>CKSQYB105K16                                                        |                 |
| <b>Mark No.</b> <b>Description</b> <b>Part No.</b> |                                                                                                            |                                                                                                                                             |                                                                                                                           |                                                                                                                                                                            |                                                                                                                              |                 |
| <b>A MAIN ASSY</b>                                 |                                                                                                            |                                                                                                                                             |                                                                                                                           |                                                                                                                                                                            |                                                                                                                              |                 |
| <b>SEMICONDUCTORS</b>                              |                                                                                                            |                                                                                                                                             |                                                                                                                           |                                                                                                                                                                            |                                                                                                                              |                 |
| E                                                  | IC136,IC140,IC142,IC143 (400mA)<br>IC135<br>IC134<br>IC104,IC109,IC118,IC131-IC133<br>IC112                | AEK7004<br>ICP-N15<br>ICP-N20<br>NJM4558MD<br>NJM4580DD                                                                                     | C105-C108,C111,C112<br>C135,C136,C157,C158<br>C172-C175,C184,C185<br>C190,C191,C198,C199,C202<br>C204,C214,C215,C222,C223 | CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50                                                                                               |                                                                                                                              |                 |
|                                                    | IC124,IC126<br>IC101<br>IC114-IC117<br>IC105,IC106,IC119<br>Q128-Q130,Q132,Q133                            | NJM4580MD<br>NJM5532MD<br>SSM2018TP<br>TC9215AF<br>2SA1037K                                                                                 | C242,C243,C245,C246<br>C248,C249,C316-C319<br>C325,C326<br>C314,C315<br>C101-C104,C254-C263                               | CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB104K25<br>CKSRYB473K50                                                                                               |                                                                                                                              |                 |
| F                                                  | Q136,Q137,Q140,Q145,Q150<br>Q101-Q118,Q141-Q144<br>Q153,Q154,Q157,Q158<br>Q160<br>Q131,Q135,Q139,Q149,Q152 | 2SA1037K<br>2SC3326<br>2SC3326<br>DTA124EK<br>DTC124EK                                                                                      | C351,C352<br>C165,C166,C239,C240<br>C244,C247                                                                             | CKSRYB473K50<br>CQMA152J50<br>CQMA473J50                                                                                                                                   |                                                                                                                              |                 |
| <b>RESISTORS</b>                                   |                                                                                                            |                                                                                                                                             |                                                                                                                           |                                                                                                                                                                            |                                                                                                                              |                 |
|                                                    |                                                                                                            |                                                                                                                                             | R215,R216,R275,R276<br>R259,R260,R265,R266<br>R205-R208,R213,R214                                                         | RN1/16SE1000D<br>RN1/16SE1001D<br>RN1/16SE1003D                                                                                                                            |                                                                                                                              |                 |

| <u>Mark No.</u>                                                                                                               | <u>Description</u>                                                                | <u>Part No.</u>                                                                                                           | <u>Mark No.</u>                                                              | <u>Description</u> | <u>Part No.</u> |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------|-----------------|
| R225,R226,R239,R240<br>R261-R264,R267,R268                                                                                    | RN1/16SE1003D<br>RN1/16SE1003D                                                    | IC710<br>IC714                                                                                                            | TC7WU04FU<br>XC2S50-5PQ208C                                                  |                    | A               |
| R277,R278,R358-R361<br>R389-R398<br>R119,R120,R221-R224<br>R235-R238<br>R433-R436                                             | RN1/16SE1003D<br>RN1/16SE1003D<br>RN1/16SE1802D<br>RN1/16SE1802D<br>RN1/16SE2202D | Q710<br>Q709<br>Q702,Q711                                                                                                 | 2SC1740S<br>2SC2458<br>DTA124EUA                                             |                    |                 |
| R151,R152<br>R306,R307,R509,R510<br>R121,R122<br>R209-R212,R279-R282<br>R101-R110,R112,R115                                   | RN1/16SE2702D<br>RN1/16SE3302D<br>RN1/16SE3901D<br>RN1/16SE4300D<br>RN1/16SE5602D | Q703-Q707<br>D708<br>D701-D706,D709,D710                                                                                  | DTC124EUA<br>EC10QS04<br>RB501V-40                                           |                    |                 |
| R117,R118,R159-R162<br>R167-R170<br>R157,R158<br>R441,R442<br>R443,R444                                                       | RN1/16SE5602D<br>RN1/16SE5602D<br>RN1/16SE6800D<br>RS1/16S2002F<br>RS1/16S8201F   | L701<br>L700<br>L703 FERRITE BEAD                                                                                         | LRCA101J<br>LRCA180J<br>VTH1020                                              |                    | B               |
| Other Resistors                                                                                                               | RS1/16S###J                                                                       | C703,C704,C717,C718<br>C991-C997<br>C872,C873<br>C821<br>C707,C708,C715,C716                                              | CCSRCH101J50<br>CCSRCH121J50<br>CCSRCH180J50<br>CCSRCH181J50<br>CCSRCH390J50 |                    |                 |
| <b>OTHERS</b>                                                                                                                 |                                                                                   | C723,C724,C727,C728<br>C709,C710,C713,C714,C721<br>C722,C725,C726<br>C805,C820,C943,C947<br>C701,C702,C705,C706           | CCSRCH390J50<br>CCSRCH681J50<br>CCSRCH681J50                                 |                    |                 |
| CN116 15P FFC CONNECTOR<br>CN118 27P FFC CONNECTOR<br>CN117 35P FFC CONNECTOR<br>CN121 5P CONNECTOR<br>CN125 KR CONNECTOR     | 52045-1545<br>52045-2745<br>52045-3545<br>B5P-VH<br>B6B-PH-K                      | C719,C720,C731,C732<br>C832,C833,C905,C906,C928<br>C930,C933-C936,C952-C954<br>C961<br>C850,C868,C925,C926,C929           | CEAT100M50<br>CEAT100M50<br>CEAT100M50                                       |                    | C               |
| CN123 KR CONNECTOR<br>J101 EARTH LEAD UNIT<br>JA101 4P PIN JACK<br>JA104,JA105 REMOTE CON. JACK<br>CN102 B TO B CONNECTOR 10P | B9B-PH-K<br>DDF1031<br>DKB1057<br>RKN1004<br>VKN1398                              | C931,C932<br>C758,C759<br>C825,C927<br>C816,C822,C919,C990<br>C815,C899                                                   | CEAT101M25<br>CEAT221M10<br>CEAT330M35                                       |                    |                 |
| CN115 B TO B CONNECTOR 12P<br>CN101,CN127<br>B TO B CONNECTOR 18P<br>CN119 B TO B CONNECTOR 20P<br>CN120 B TO B CONNECTOR 22P | VKN1399<br>VKN1402<br>VKN1403<br>VKN1404                                          | C846,C861<br>C700,C711,C712,C729,C730<br>C733-C737,C760,C761,C804<br>C806-C810,C812-C814<br>C827,C828,C831,C837           | CKSRYB102K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50 |                    |                 |
| KN102 WRAPPING TERMINAL                                                                                                       | VNF1084                                                                           | C839-C845,C851-C859<br>C862-C867,C869,C870<br>C878-C885,C887-C893<br>C896-C898,C900-C904,C907<br>C909-C918,C920-C924,C939 | CKSRYB103K50<br>CKSRYB103K50                                                 |                    |                 |
| <b>B DSP ASSY</b>                                                                                                             |                                                                                   | CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50                                              |                                                                              |                    |                 |
| <b>SEMICONDUCTORS</b>                                                                                                         |                                                                                   | CKSRYB103K50<br>CKSRYB104K25<br>CKSRYB104K25<br>CKSRYB105K6R3<br>CKSRYB105K6R3                                            |                                                                              |                    |                 |
| △ IC734,IC740 (400mA)<br>△ IC738,IC739 (500mA)<br>IC700,IC701<br>IC706,IC707<br>△ IC731                                       | AEK7004<br>AEK7005<br>AK5380VT<br>DSPA56367PV150<br>ICP-N15                       | C944,C946<br>C738-C757,C817,C823,C829<br>C834,C838,C847,C860<br>C762-C789,C792-C803,C824<br>C848,C874-C877                | CKSRYB103K50<br>CKSRYB104K25<br>CKSRYB104K25                                 |                    | E               |
| △ IC732<br>IC713<br>△ IC712<br>IC708,IC709<br>△ IC730                                                                         | ICP-N20<br>K4S641632F-TC75<br>NJM2374AM<br>NJM2870F18<br>NJM2870F25               | C811,C830<br>C818,C835<br>C790,C791,C819,C836                                                                             | CKSRYB153K50<br>CKSRYB222K50<br>CKSRYB682K50                                 |                    |                 |
| IC726,IC729<br>IC724,IC725,IC727,IC728,IC736<br>△ IC716<br>△ IC717<br>IC702-IC705                                             | NJM4558MD<br>NJM4580MD<br>NJM78L05UA<br>PCM1742KE                                 | R841-R845,R851-R855<br>R734-R739<br>R697,R698,R849,R850<br>R875,R876,R907,R908<br>R707,R708,R723,R724                     | RAB4C0R0J<br>RAB4C223J<br>RN1/16SE1003D<br>RN1/16SE1003D<br>RN1/16SE7501D    |                    |                 |
| IC718<br>IC722<br>IC719<br>IC720,IC735<br>IC737                                                                               | PD3451B8<br>TC74VHC08FT<br>TC74VHC125FT<br>TC74VHC14FT<br>TC7SU04FU               | RESISTORS                                                                                                                 |                                                                              |                    | F               |

| <b>Mark No.</b> | <b>Description</b>                                                                                                                                                                                                                                                                                             | <b>Part No.</b>                                                                                                                                                                                                                                                                        | <b>Mark No.</b>                                                                                                                                                                                                                                                                                                | <b>Description</b>                                                                                                                                                                                                             | <b>Part No.</b>                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A               | R701,R702,R717,R718<br>R703,R704,R719,R720<br>R709,R710,R715,R716<br>R725,R726,R731,R732<br>R705,R706,R721,R722<br><br>R770<br>R763<br>VR700-VR703<br>Other Resistors                                                                                                                                          | RN1/16SE2702D<br>RN1/16SE3001D<br>RN1/16SE6202D<br>RN1/16SE6202D<br>RN1/16SE7501D<br><br>RS1/16S2201F<br>RS1/16S4702F<br>CCP1402<br>RS1/16S###J                                                                                                                                        | <b>RESISTORS</b><br>R1617,R1618<br>R1601,R1602,R1651,R1652<br>R1689,R1690<br>R1603,R1604,R1637,R1638<br>R1633,R1634,R1641,R1642<br><br>R1611,R1612,R1623,R1624<br>R1609,R1610,R1615,R1616<br>R1621,R1622<br>R1635,R1636,R1639,R1640<br>R1691,R1692                                                             | R1617,R1618<br>R1601,R1602,R1651,R1652<br>R1689,R1690<br>R1603,R1604,R1637,R1638<br>R1633,R1634,R1641,R1642<br><br>R1611,R1612,R1623,R1624<br>R1609,R1610,R1615,R1616<br>R1621,R1622<br>R1635,R1636,R1639,R1640<br>R1691,R1692 | RN1/10SE1300D<br>RN1/16SE1001D<br>RN1/16SE1002D<br>RN1/16SE1003D<br>RN1/16SE1502D<br><br>RN1/16SE1800D<br>RN1/16SE1801D<br>RN1/16SE1801D<br>RN1/16SE1802D<br>RN1/16SE1802D |
| B               | CN709 17P FFC CONNECTOR<br>CN707 19P FFC CONNECTOR<br>CN704 21P FFC CONNECTOR<br>CN708 23P FFC CONNECTOR<br>CN706 27P FFC CONNECTOR<br><br>CN705 35P FFC CONNECTOR<br>X700 CRYSTAL RESONATOR<br>(24MHz)<br>CN700,CN701 KR CONNECTOR<br>CN703 8P TOP POST<br><br>CN702 KR CONNECTOR                             | 52045-1745<br>52045-1945<br>52045-2145<br>52045-2345<br>52045-2745<br><br>52045-3545<br>ASS7025<br>B5B-PH-K<br>B8B-EH<br><br>S6B-PH-K                                                                                                                                                  | R1625,R1626<br>R1607,R1608,R1627,R1628<br>R1658<br>R1613,R1614<br>R1619,R1620<br><br>VR1602-VR1604<br>VR1601,VR1605<br>VR1606,VR1607<br>VR1608-VR1613 (22kohm)<br>Other Resistors                                                                                                                              | R1625,R1626<br>R1607,R1608,R1627,R1628<br>R1658<br>R1613,R1614<br>R1619,R1620<br><br>VR1602-VR1604<br>VR1601,VR1605<br>VR1606,VR1607<br>VR1608-VR1613 (22kohm)<br>Other Resistors                                              | RN1/16SE4702D<br>RN1/16SE5101D<br>RN1/16SE5601D<br>RN1/16SE6202D<br>RN1/16SE7502D<br><br>DCS1065<br>DCS1073<br>DCS1074<br>VCP1133<br>RS1/16S###J                           |
| C               | <b>C1EQ ASSY SEMICONDUCTORS</b><br><br>IC1610<br>IC1602-IC1605,IC1607<br>IC1601<br>IC1609,IC1611<br>Q1603-Q1606<br><br>Q1602<br>Q1600<br>Q1601<br>D1601-D1604,D1609<br>D1606<br><br>D1607,D1608                                                                                                                | NJM4558MD<br>NJM4580MD<br>NJM5532MD<br>TC7S14F<br>2SC3326<br><br>DTA124EUA<br>DTC114EUA<br>DTC124EUA<br>1SS355<br>SLI-343URCW(RST)<br><br>SLI-343YCW(RST)                                                                                                                              | <b>OTHERS</b><br>CN1603 FFC CONNECTOR 17P<br>CN1601,CN1602,CN1604<br>B TO B CONNECTOR 6P                                                                                                                                                                                                                       | CN1603 FFC CONNECTOR 17P<br>CN1601,CN1602,CN1604<br>B TO B CONNECTOR 6P                                                                                                                                                        | 52492-1720<br>DKN1278                                                                                                                                                      |
| D               | <b>SWITCHES AND RELAYS</b><br><br>S1602<br>S1601<br>S1603,S1604                                                                                                                                                                                                                                                | DSK1026<br>DSK1035<br>RSG1032                                                                                                                                                                                                                                                          | <b>D C2EQ ASSY SEMICONDUCTORS</b><br><br>IC1748-IC1750<br>IC1752-IC1755<br>IC1751<br>IC1758,IC1759<br>Q1701-Q1704<br><br>Q1705<br>D1701-D1704<br>D1751<br>D1754                                                                                                                                                | IC1748-IC1750<br>IC1752-IC1755<br>IC1751<br>IC1758,IC1759<br>Q1701-Q1704<br><br>Q1705<br>D1701-D1704<br>D1751<br>D1754                                                                                                         | NJM4558MD<br>NJM4580MD<br>NJM5532MD<br>TC7S14F<br>2SC3326<br><br>DTA124EUA<br>1SS355<br>SLI-343URCW(RST)<br>SLI-343YCW(RST)                                                |
| E               | <b>CAPACITORS</b><br><br>C1663,C1664<br>C1631<br>C1673,C1674<br>C1683,C1684<br>C1679,C1680<br><br>C1675,C1676<br>C1603,C1604,C1661,C1665<br>C1627,C1628,C1685,C1686<br>C1630<br>C1671,C1672<br><br>C1681,C1682<br>C1607,C1637,C1638,C1641,C1642<br>C1648-C1654,C1656-C1660<br>C1688,C1689<br>C1635,C1636       | CCSRCH101J50<br>CCSRCH270J50<br>CCSRCH271J50<br>CCSRCH330J50<br>CEHAR100M35<br><br>CEHARR47M50<br>CEJQ100M35<br>CEJQ100M50<br>CFTLA104J50<br>CFTNA473J50<br><br>CFTNA563J50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB103K50<br>CKSRYB104K25<br>CKSRYB104K25<br>CKSRYB473K50<br>DCE1009 | <b>SWITCHES AND RELAYS</b><br><br>S1751,S1752<br>S1754<br>S1753                                                                                                                                                                                                                                                | S1751,S1752<br>S1754<br>S1753                                                                                                                                                                                                  | DSK1026<br>DSK1035<br>RSG1032                                                                                                                                              |
| F               | <b>CAPACITORS</b><br><br>C1799,C1800<br>C1805-C1808<br>C1759,C1760<br>C1767,C1768<br>C1771,C1772<br><br>C1775,C1776<br>C1769,C1770,C1797,C1798<br>C1757,C1758<br>C1765,C1766<br>C1752-C1756,C1781-C1784,C1790<br>C1801-C1804,C1809-C1816<br>C1779,C1780<br>C1761,C1762,C1777,C1778<br>C1773,C1774 (5600pF/50V) | C1799,C1800<br>C1805-C1808<br>C1759,C1760<br>C1767,C1768<br>C1771,C1772<br><br>C1775,C1776<br>C1769,C1770,C1797,C1798<br>C1757,C1758<br>C1765,C1766<br>C1752-C1756,C1781-C1784,C1790<br>C1801-C1804,C1809-C1816<br>C1779,C1780<br>C1761,C1762,C1777,C1778<br>C1773,C1774 (5600pF/50V)  | <b>CAPACITORS</b><br><br>C1799,C1800<br>C1805-C1808<br>C1759,C1760<br>C1767,C1768<br>C1771,C1772<br><br>C1775,C1776<br>C1769,C1770,C1797,C1798<br>C1757,C1758<br>C1765,C1766<br>C1752-C1756,C1781-C1784,C1790<br>C1801-C1804,C1809-C1816<br>C1779,C1780<br>C1761,C1762,C1777,C1778<br>C1773,C1774 (5600pF/50V) | CCSRCH101J50<br>CCSRCH220J50<br>CCSRCH271J50<br>CCSRCH330J50<br>CEHAR100M35<br><br>CEHARR47M50<br>CEJQ100M50<br>CFTNA473J50<br>CFTNA563J50<br>CKSRYB103K50<br><br>CKSRYB103K50<br>CKSRYB104K25<br>CKSRYB473K50<br>DCE1009      |                                                                                                                                                                            |

| <u>Mark No.</u>                   | <u>Description</u> | <u>Part No.</u> | <u>Mark No.</u>                   | <u>Description</u> | <u>Part No.</u> |
|-----------------------------------|--------------------|-----------------|-----------------------------------|--------------------|-----------------|
| <b>RESISTORS</b>                  |                    |                 | R1279-R1282,R1299-R1304           | RN1/16SE1003D      |                 |
| R1795,R1796                       | RN1/10SE1300D      |                 | R1261,R1262,R1277,R1278           | RN1/16SE1203D      |                 |
| R1751,R1752                       | RN1/16SE1001D      |                 | R1271,R1272                       | RN1/16SE1601D      | A               |
| R1815,R1816                       | RN1/16SE1002D      |                 | R1290                             | RN1/16SE2202D      |                 |
| R1753,R1754,R1787,R1788           | RN1/16SE1003D      |                 | R1286,R1287                       | RN1/16SE3301D      |                 |
| R1779,R1780,R1783,R1784           | RN1/16SE1502D      |                 | R1253,R1254,R1309,R1310           | RN1/16SE3302D      |                 |
|                                   |                    |                 | Other Resistors                   | RS1/16S###J        |                 |
| R1820,R1821,R1824,R1826           | RN1/16SE1502D      |                 | <b>OTHERS</b>                     |                    |                 |
| R1761,R1762,R1789,R1790           | RN1/16SE1800D      |                 | CN1255 FFC CONNECTOR 17P          | 52492-1720         |                 |
| R1759,R1760,R1765,R1766           | RN1/16SE1801D      |                 | JA1251 4P PIN JACK                | AKB7048            |                 |
| R1793,R1794                       | RN1/16SE1801D      |                 | CN1253,CN1254                     | DKN1279            |                 |
| R1777,R1778,R1781,R1782           | RN1/16SE1802D      |                 | B TO B CONNECTOR 6P               |                    |                 |
| R1817,R1818                       | RN1/16SE1802D      |                 | 0 SHIELD CASE S                   | DNH2589            |                 |
| R1763,R1764                       | RN1/16SE4702D      |                 |                                   |                    |                 |
| R1757,R1758,R1771,R1772           | RN1/16SE5101D      |                 | CN1252 B TO B CONNECTOR 10P       | VKN1385            |                 |
| R1791,R1792                       | RN1/16SE6202D      |                 | CN1251 B TO B CONNECTOR 18P       | VKN1389            |                 |
| R1797,R1798                       | RN1/16SE7502D      |                 |                                   |                    |                 |
| VR1752-VR1754                     | DCS1065            |                 |                                   |                    |                 |
| VR1751                            | DCS1073            |                 |                                   |                    |                 |
| VR1755                            | DCV1014            |                 |                                   |                    |                 |
| VR1756-VR1761                     | VCP1133            |                 |                                   |                    |                 |
| Other Resistors                   | RS1/16S###J        |                 |                                   |                    |                 |
| <b>OTHERS</b>                     |                    |                 |                                   |                    |                 |
| CN1754 7P FFC CONNECTOR           | 52045-0745         |                 | <b>F C2BF ASSY SEMICONDUCTORS</b> |                    |                 |
| CN1753 11P FFC CONNECTOR          | 52045-1145         |                 | IC1355                            | NJM4580DD          |                 |
| CN1751,CN1752                     | DKN1278            |                 | IC1351-IC1353                     | NJM5532MD          |                 |
| B TO B CONNECTOR 6P               |                    |                 | Q1351,Q1352                       | 2SC3326            |                 |
| 0 CUE FADER BRACKET               | DNF1690            |                 | Q1357                             | DTA124EUA          |                 |
|                                   |                    |                 | Q1353-Q1356                       | DTC124EUA          |                 |
|                                   |                    |                 | D1351-D1358                       | 1SS355             |                 |
|                                   |                    |                 |                                   |                    |                 |
| <b>E C1BF ASSY SEMICONDUCTORS</b> |                    |                 | <b>SWITCHES AND RELAYS</b>        |                    |                 |
| IC1255                            | NJM4580DD          |                 | S1351                             | VSH1009            |                 |
| IC1254                            | NJM4580MD          |                 | RY1351-RY1353                     | VSR1008            |                 |
| IC1251-IC1253                     | NJM5532MD          |                 |                                   |                    |                 |
| Q1251,Q1252                       | 2SC3326            |                 |                                   |                    |                 |
| Q1257                             | DTA124EUA          |                 | <b>CAPACITORS</b>                 |                    |                 |
| Q1253-Q1256                       | DTC124EUA          |                 | C1351-C1354,C1359-C1362           | CCSRCH101J50       |                 |
| D1251-D1258                       | 1SS355             |                 | C1397,C1398                       | CCSRCH220J50       |                 |
|                                   |                    |                 | C1392,C1393                       | CEAT221M6R3        |                 |
|                                   |                    |                 | C1369,C1370                       | CEAT470M35         |                 |
|                                   |                    |                 | C1355-C1358,C1363-C1368           | CEJQ100M35         |                 |
|                                   |                    |                 |                                   |                    |                 |
| <b>SWITCHES AND RELAYS</b>        |                    |                 | C1375,C1376                       | CEJQ100M35         |                 |
| S1251                             | VSH1009            |                 | C1385,C1390                       | CFTLA103J50        |                 |
| RY1251-RY1253                     | VSR1008            |                 | C1379-C1384,C1394,C1401           | CKSRYB103K50       |                 |
|                                   |                    |                 | C1371,C1372                       | CQMA222J50         |                 |
|                                   |                    |                 | C1373,C1374                       | CQMA681J50         |                 |
|                                   |                    |                 |                                   |                    |                 |
| <b>CAPACITORS</b>                 |                    |                 | <b>RESISTORS</b>                  |                    |                 |
| C1251-C1254,C1259-C1262           | CCSRCH101J50       |                 | R1369,R1370                       | RN1/10SE4703D      |                 |
| C1297,C1298                       | CCSRCH220J50       |                 | R1373-R1376                       | RN1/10SE7503D      |                 |
| C1292,C1293                       | CEAT221M6R3        |                 | R1351,R1352,R1359,R1360           | RN1/16SE1000D      |                 |
| C1269,C1270                       | CEAT470M35         |                 | R1367,R1368,R1393-R1396           | RN1/16SE1001D      |                 |
| C1255-C1258,C1263-C1268           | CEJQ100M35         |                 | R1355-R1358,R1363-R1366           | RN1/16SE1003D      |                 |
|                                   |                    |                 | R1379-R1382,R1399-R1404           | RN1/16SE1003D      |                 |
| C1275-C1278                       | CEJQ100M35         |                 | R1361,R1362,R1377,R1378           | RN1/16SE1203D      |                 |
| C1285,C1290                       | CFTLA103J50        |                 | R1371,R1372                       | RN1/16SE1601D      |                 |
| C1279-C1284,C1286,C1288,C1294     | CKSRYB103K50       |                 | R1390                             | RN1/16SE2202D      |                 |
| C1301                             | CKSRYB103K50       |                 | R1386,R1387                       | RN1/16SE3301D      |                 |
| C1271,C1272                       | CQMA222J50         |                 |                                   |                    |                 |
| C1273,C1274                       | CQMA681J50         |                 | R1353,R1354,R1409,R1410           | RN1/16SE3302D      |                 |
|                                   |                    |                 | Other Resistors                   | RS1/16S###J        |                 |
|                                   |                    |                 |                                   |                    |                 |
| <b>RESISTORS</b>                  |                    |                 | <b>OTHERS</b>                     |                    |                 |
| R1269,R1270                       | RN1/10SE4703D      |                 | CN1355 11P FFC CONNECTOR          | 52045-1145         |                 |
| R1273-R1276                       | RN1/10SE7503D      |                 | JA1251 4P PIN JACK                | AKB7048            |                 |
| R1251,R1252,R1259,R1260           | RN1/16SE1000D      |                 | CN1353,CN1354                     | DKN1279            |                 |
| R1267,R1268,R1293-R1298           | RN1/16SE1001D      |                 | B TO B CONNECTOR 6P               |                    |                 |
| R1255-R1258,R1263-R1266           | RN1/16SE1003D      |                 | 0 SHIELD CASE S                   | DNH2589            |                 |

| <u>Mark No.</u>                   | <u>Description</u>   | <u>Part No.</u> | <u>Mark No.</u>               | <u>Description</u> | <u>Part No.</u> |
|-----------------------------------|----------------------|-----------------|-------------------------------|--------------------|-----------------|
| CN1351                            | B TO B CONNECTOR 18P | VKN1389         |                               |                    |                 |
| A                                 |                      |                 |                               |                    |                 |
| <b>G MICB ASSY SEMICONDUCTORS</b> |                      |                 |                               |                    |                 |
| IC1201,IC1203,IC1204              | NJM2068M             |                 | C1457,C1458                   | CCSRCH220J50       |                 |
| IC1202                            | NJM4580MD            |                 | C1463,C1464,C1467,C1468       | CCSRCH820J50       |                 |
| D1201-D1204                       | 1SS355               |                 | C1459,C1460                   | CEAL100M35         |                 |
| D1205                             | NNCD6.2MF            |                 | C1451,C1452,C1455,C1456       | CEAT100M50         |                 |
|                                   |                      |                 | C1461,C1462,C1465,C1466       | CEAT100M50         |                 |
| <b>COILS AND FILTERS</b>          |                      |                 |                               |                    |                 |
| ⚠ L1201-L1206 CHIP FERRITE BEAD   | ATL7002              |                 | C1497,C1498                   | CEAT100M50         |                 |
|                                   |                      |                 | C1469,C1470                   | CEAT2R2M50         |                 |
|                                   |                      |                 | C1471,C1472                   | CEAT470M25         |                 |
|                                   |                      |                 | C1478-C1487,C1489,C1491,C1492 | CKSRYB103K50       |                 |
|                                   |                      |                 | C1503,C1504                   | CKSRYB473K50       |                 |
| B                                 |                      |                 | C1475,C1476                   | DCH1194            |                 |
| <b>CAPACITORS</b>                 |                      |                 |                               |                    |                 |
| C1201-C1204,C1244,C1245           | CCSRCH101J50         |                 | R1487-R1490                   | RD1/2VM122J        |                 |
| C1213,C1231,C1243                 | CCSRCH221J50         |                 | R1499,R1500                   | RD1/2VM221J        |                 |
| C1207,C1208,C1227,C1234,C1246     | CCSRCH270J50         |                 | R1451,R1452,R1457,R1458       | RN1/16SE1001D      |                 |
| C1217,C1247                       | CEAT470M25           |                 | R1473,R1474                   | RN1/16SE1002D      |                 |
| C1205,C1206,C1209,C1210,C1216     | CEQJ100M35           |                 | R1459-R1462                   | RN1/16SE2202D      |                 |
| C1218,C1228,C1230,C1233,C1237     | CEQJ100M35           |                 | R1479,R1480                   | RN1/16SE5102D      |                 |
| C1241,C1242,C1248                 | CEQJ100M35           |                 | R1491-R1494                   | RS2LMF270J         |                 |
| C1226,C1239,C1240,C1249           | CFTLA103J50          |                 | VR1451-VR1453                 | DCS1064            |                 |
| C1211,C1212,C1214,C1215,C1229     | CKSRYB103K50         |                 | Other Resistors               | RS1/16S###J        |                 |
| C1235,C1236,C1238                 | CKSRYB103K50         |                 |                               |                    |                 |
| C                                 |                      |                 |                               |                    |                 |
| <b>RESISTORS</b>                  |                      |                 |                               |                    |                 |
| R1205,R1206                       | RN1/10SE4703D        |                 | CN1453 7P FFC CONNECTOR       | 52045-0745         |                 |
| R1226                             | RN1/16SC22R0D        |                 | CN1452 B TO B CONNECTOR 20P   | VKN1390            |                 |
| R1203,R1204                       | RN1/16SE1000D        |                 | CN1451 B TO B CONNECTOR 22P   | VKN1391            |                 |
| R1237                             | RN1/16SE1001D        |                 |                               |                    |                 |
| R1214,R1219                       | RN1/16SE1002D        |                 |                               |                    |                 |
| R1201,R1202                       | RN1/16SE1003D        |                 |                               |                    |                 |
| R1209,R1210                       | RN1/16SE1802D        |                 |                               |                    |                 |
| R1207,R1208                       | RN1/16SE3302D        |                 |                               |                    |                 |
| R1213,R1230                       | RN1/16SE6202D        |                 |                               |                    |                 |
| R1211,R1212                       | RN1/16SE9102D        |                 |                               |                    |                 |
| D                                 |                      |                 |                               |                    |                 |
| VR1201                            | DCS1071              |                 |                               |                    |                 |
| Other Resistors                   | RS1/16S###J          |                 |                               |                    |                 |
| <b>OTHERS</b>                     |                      |                 |                               |                    |                 |
| JA1202 2P PIN JACK                | AKB7046              |                 | C905-C909                     | CCSRCH221J50       |                 |
| JA1201 CANNON CONNECTOR           | DKB1058              |                 | C901-C904                     | CKSRYB104K25       |                 |
| CN1202 B TO B CONNECTOR 6P        | DKN1279              |                 |                               |                    |                 |
| CN1201 B TO B CONNECTOR 12P       | VKN1386              |                 |                               |                    |                 |
| E                                 |                      |                 |                               |                    |                 |
| <b>H HPBO ASSY SEMICONDUCTORS</b> |                      |                 |                               |                    |                 |
| IC1454                            | NJM2068M             |                 |                               |                    |                 |
| IC1453                            | NJM4558MD            |                 |                               |                    |                 |
| IC1452                            | NJM4580MD            |                 |                               |                    |                 |
| IC1451                            | NJM5532MD            |                 |                               |                    |                 |
| IC1457                            | TC7S14F              |                 |                               |                    |                 |
| IC1455,IC1456                     | TC9215AF             |                 | IC1901,IC1902                 | NJM4558MD          |                 |
| Q1453,Q1454                       | 2SB1238X             |                 | IC1903                        | TC9215AF           |                 |
| Q1455,Q1456                       | 2SC3326              |                 | Q1901-Q1904                   | 2SC3326            |                 |
| Q1451,Q1452                       | 2SD1859X             |                 | Q1905                         | DTA124EK           |                 |
| Q1457,Q1458                       | DTC124EUA            |                 | D1901-D1904                   | NNCD6.2MF          |                 |
| F                                 |                      |                 |                               |                    |                 |
| D1451-D1461                       | 1SS355               |                 |                               |                    |                 |
| <b>SWITCHES AND RELAYS</b>        |                      |                 |                               |                    |                 |
| RY1451                            | VSR1008              |                 |                               |                    |                 |

| <u>Mark No.</u>                  | <u>Description</u>      | <u>Part No.</u>                   | <u>Mark No.</u>          | <u>Description</u>         | <u>Part No.</u>  |
|----------------------------------|-------------------------|-----------------------------------|--------------------------|----------------------------|------------------|
| <b>CAPACITORS</b>                |                         | <b>L LVMR ASSY SEMICONDUCTORS</b> |                          |                            |                  |
| C1901-C1904,C1915-C1918          |                         | CCSRCH101J50                      | IC417,IC418              |                            | NJM072BM-E       |
| C1907,C1908                      |                         | CCSRCH270J50                      | IC401-IC404              |                            | NJM4558MD        |
| C1905,C1906,C1909,C1910          |                         | CEAT100M50                        | IC413,IC416              |                            | TC4W53F          |
| C1913,C1914,C1931,C1932          |                         | CEAT100M50                        | IC407-IC412              |                            | TS339CDT         |
| C1921,C1924-C1929                |                         | CKSRYB103K50                      | Q401,Q402                |                            | 2SA1577          |
| C1933-C1935                      |                         | CKSRYB104K25                      |                          |                            |                  |
| <b>RESISTORS</b>                 |                         |                                   | Q415-Q420                |                            | 2SB1132          |
| R1911,R1912,R1949,R1950          |                         | RN1/16SE4702D                     | Q404                     |                            | 2SC3326          |
| Other Resistors                  |                         | RS1/16S###J                       | Q405                     |                            | DTA124EUA        |
|                                  |                         |                                   | Q403,Q408-Q414           |                            | DTC124EUA        |
| <b>OTHERS</b>                    |                         |                                   | D401-D406,D409,D410      |                            | 1SS355           |
| JA1901 15P FFC CONNECTOR         |                         | 52044-1545                        |                          |                            |                  |
| JA1903,JA1904 MIC. JACK          |                         | DKN1248                           | D413,D414,D439-D454      |                            | 1SS355           |
| JA1901,JA1902 HEADPHONE JACK     |                         | RKB1014                           | D473,D474,D481,D482      |                            | 1SS355           |
|                                  |                         |                                   | D437,D438,D458-D460      |                            | SLI-343URCW(RST) |
|                                  |                         |                                   | D429-D436,D455           |                            | SLI-343YCW(RST)  |
|                                  |                         |                                   | D415-D428,D461-D464      |                            | TLGE68TG(NP)     |
| <b>K XLR ASSY SEMICONDUCTORS</b> |                         |                                   | D467                     |                            | UDZS10B          |
| IC102,IC137                      |                         | NJM4580MD                         | D407,D408,D411,D412      |                            | UDZS12B          |
| IC108                            |                         | NJM5532DD                         |                          |                            |                  |
| IC110,IC111                      |                         | NJM5532L                          |                          |                            |                  |
| Q119-Q126                        |                         | 2SC3326                           |                          |                            |                  |
| D101-D108                        |                         | 1SS355                            |                          |                            |                  |
| <b>COILS AND FILTERS</b>         |                         |                                   |                          | <b>SWITCHES AND RELAYS</b> |                  |
| △ L101-L104 FERRITE BEAD         |                         | VTH1020                           | S404,S405                |                            | DSG1077          |
|                                  |                         |                                   | S401                     |                            | RSG1032          |
| <b>CAPACITORS</b>                |                         |                                   |                          | <b>CAPACITORS</b>          |                  |
| C333,C334                        |                         | CCSRCH151J50                      | C403,C404,C407,C408      |                            | CCSRCH470J50     |
| C141-C148,C335,C336              |                         | CCSRCH330J50                      | C401,C402,C405,C406,C439 |                            | CEAT100M50       |
| C131,C132                        |                         | CEAL100M50                        | C458                     |                            | CEAT100M50       |
| C149-C152                        |                         | CEAT101M25                        | C415-C418                |                            | CEAT2R2M50       |
| C161-C164                        |                         | CEHAT101M25                       | C433,C434                |                            | CEJQ100M35       |
|                                  |                         |                                   |                          |                            |                  |
| C115-C118,C337,C338              |                         | CFTNA334J50                       | C419,C420,C422-C426      |                            | CKSRYB103K50     |
| C119,C120,C125,C126              |                         | CKSRYB103K50                      | C428-C432,C435-C438,C440 |                            | CKSRYB103K50     |
| C133,C134,C137-C140              |                         | CKSRYB103K50                      | C447,C449,C451,C453,C455 |                            | CKSRYB103K50     |
| C153-C156                        |                         | CQMA103J50                        | C457,C461-C464           |                            | CKSRYB103K50     |
|                                  |                         |                                   | C409,C410                |                            | CKSRYB473K50     |
| <b>RESISTORS</b>                 |                         |                                   |                          | <b>RESISTORS</b>           |                  |
| R196                             |                         | RD1/2PM101J                       | R461,R462                |                            | RS1/10S27R0F     |
| R193-R195                        |                         | RD1/2VM101J                       | R463,R464                |                            | RS1/16S1000F     |
| R189-R192                        |                         | RN1/16SC68R0D                     | R407,R408,R417,R418      |                            | RS1/16S1302F     |
| R163,R164                        |                         | RN1/16SE1001D                     | R473,R474                |                            | RS1/16S2000F     |
| R123,R124,R165-R172              |                         | RN1/16SE1002D                     | R475,R476                |                            | RS1/16S2400F     |
|                                  |                         |                                   |                          |                            |                  |
| R447,R448                        |                         | RN1/16SE1002D                     | R481,R482                |                            | RS1/16S2401F     |
| R387,R388                        |                         | RN1/16SE1003D                     | R465,R466                |                            | RS1/16S3000F     |
| R125,R126                        |                         | RN1/16SE1503D                     | R467,R468                |                            | RS1/16S3300F     |
| R129,R130                        |                         | RN1/16SE2002D                     | R483,R484                |                            | RS1/16S3301F     |
| R185-R188                        |                         | RN1/16SE2201D                     | R471,R472                |                            | RS1/16S4300F     |
|                                  |                         |                                   |                          |                            |                  |
| R173-R180,R451,R452              |                         | RN1/16SE2202D                     | R469,R470                |                            | RS1/16S4700F     |
| R435,R436,R441,R442              |                         | RN1/16SE2700D                     | R485,R486                |                            | RS1/16S5100F     |
| R429,R430                        |                         | RN1/16SE2701D                     | R477,R478                |                            | RS1/16S7500F     |
| R431,R432                        |                         | RN1/16SE4301D                     | R403,R404,R413,R414      |                            | RS1/16S7501F     |
| Other Resistors                  |                         | RS1/16S###J                       | R479,R480                |                            | RS1/16S9100F     |
|                                  |                         |                                   |                          |                            |                  |
| <b>OTHERS</b>                    |                         |                                   | Other Resistors          |                            | RS1/16S###J      |
| CN122 KR CONNECTOR               |                         | B8B-PH-K                          |                          |                            |                  |
| CN124 KR CONNECTOR               |                         | B9B-PH-K                          |                          |                            |                  |
| JA102,JA103                      |                         | DKB1059                           |                          |                            |                  |
|                                  | <b>CANNON CONNECTOR</b> |                                   |                          |                            |                  |
| 0 SCREW PLATE                    |                         | VNE1948                           | CN403,CN404              |                            | 52044-1945       |
|                                  |                         |                                   | B TO B CONNECTOR 3P      |                            | 52492-0920       |
|                                  |                         |                                   | J406,J407 CONNECTOR ASSY |                            | 52492-2320       |
|                                  |                         |                                   |                          |                            | DKN1334          |
|                                  |                         |                                   |                          |                            | PG03KA-E07       |

|   | <b>Mark No.</b>                                                                           | <b>Description</b> | <b>Part No.</b>                                   | <b>Mark No.</b>                                                                                 | <b>Description</b> | <b>Part No.</b>                                                                |
|---|-------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------|
| A | <b>M</b> C1TR ASSY<br><u>SWITCHES AND RELAYS</u>                                          |                    |                                                   | <b>R</b> RVSW ASSY<br><u>SWITCHES AND RELAYS</u>                                                |                    |                                                                                |
|   | S591                                                                                      |                    | DSK1031                                           | S571-S573                                                                                       |                    | DSH1036                                                                        |
|   | <b>OTHERS</b>                                                                             |                    |                                                   | <b>OTHERS</b>                                                                                   |                    |                                                                                |
|   | CN591 KR CONNECTOR 3P                                                                     |                    | B3B-PH-K                                          | CN571 FFC CONNECTOR 6P                                                                          |                    | 52492-0620                                                                     |
|   | <b>N</b> C2TR ASSY<br><u>SWITCHES AND RELAYS</u>                                          |                    |                                                   | <b>S</b> FSSW ASSY<br><u>SEMICONDUCTORS</u>                                                     |                    |                                                                                |
|   | S592                                                                                      |                    | DSK1031                                           | D581,D582                                                                                       |                    | NNCD6.2MF                                                                      |
| B | <b>OTHERS</b>                                                                             |                    |                                                   | <b>COILS AND FILTERS</b>                                                                        |                    |                                                                                |
|   | CN592 KR CONNECTOR 3P                                                                     |                    | B3B-PH-K                                          | ⚠ L576-L578 FERRITE BEAD                                                                        |                    | VTH1020                                                                        |
|   | <b>O</b> FVA1 ASSY<br><u>RESISTORS</u>                                                    |                    |                                                   | <b>SWITCHES AND RELAYS</b>                                                                      |                    |                                                                                |
|   | VR593                                                                                     |                    | DCV1016                                           | S581,S582                                                                                       |                    | DSH1052                                                                        |
|   | <b>OTHERS</b>                                                                             |                    |                                                   | <b>CAPACITORS</b>                                                                               |                    |                                                                                |
|   | CN593 B TO B CONNECTOR 3P                                                                 |                    | VKN1355                                           | C581                                                                                            |                    | CQMA102J50                                                                     |
| C | <b>P</b> FVA2 ASSY<br><u>RESISTORS</u>                                                    |                    |                                                   | <b>OTHERS</b>                                                                                   |                    |                                                                                |
|   | VR594                                                                                     |                    | DCV1016                                           | CN581 3P FFC CONNECTOR<br>JA581 HEADPHONE JACK<br>CN582 KR CONNECTOR                            |                    | 52045-0345<br>DKN1281<br>S6B-PH-K                                              |
|   | <b>OTHERS</b>                                                                             |                    |                                                   | <b>T</b> LCD ASSY<br><u>SEMICONDUCTORS</u>                                                      |                    |                                                                                |
|   | CN594 B TO B CONNECTOR 3P                                                                 |                    | VKN1355                                           | IC1005<br>IC1000<br>IC1004<br>IC1001<br>IC1002,IC1009                                           |                    | DYW1730<br>NJM2902V<br>PD3452A8<br>S1D13704F00A<br>TC74VHC125FT                |
| D | <b>Q</b> CFVR ASSY<br><u>SEMICONDUCTORS</u>                                               |                    |                                                   | IC1006,IC1007<br>IC1008<br>IC1003<br>Q1000,Q1010,Q1015-Q1019<br>Q1022,Q1025                     |                    | TC74VHC175FT<br>TC74VHC74FT<br>TC7WU04FU<br>2SC2412K<br>DTA124EUA              |
|   | D551,D552                                                                                 |                    | NNCD6.2MF                                         | Q1001-Q1005,Q1011-Q1014<br>Q1020,Q1021,Q1023,Q1024<br>Q1026,Q1027<br>D1024-D1033<br>D1036,D1037 |                    | DTC124EUA<br>DTC124EUA<br>DTC124EUA<br>1SS355<br>NNCD6.2MF                     |
|   | <b>COILS AND FILTERS</b>                                                                  |                    |                                                   | IC1006,IC1007<br>IC1008<br>IC1003<br>Q1000,Q1010,Q1015-Q1019<br>Q1022,Q1025                     |                    | TC74VHC175FT<br>TC74VHC74FT<br>TC7WU04FU<br>2SC2412K<br>DTA124EUA              |
|   | ⚠ L553-L571,L573-L575,L579 CHIP FERRITE BEAD                                              |                    | ATL7002                                           | Q1001-Q1005,Q1011-Q1014<br>Q1020,Q1021,Q1023,Q1024<br>Q1026,Q1027<br>D1024-D1033<br>D1036,D1037 |                    | DTC124EUA<br>DTC124EUA<br>DTC124EUA<br>1SS355<br>NNCD6.2MF                     |
|   | ⚠ L551,L552,L572 FERRITE BEAD                                                             |                    | VTH1020                                           | IC1006,IC1007<br>IC1008<br>IC1003<br>Q1000,Q1010,Q1015-Q1019<br>Q1022,Q1025                     |                    | TC74VHC175FT<br>TC74VHC74FT<br>TC7WU04FU<br>2SC2412K<br>DTA124EUA              |
|   | <b>SWITCHES AND RELAYS</b>                                                                |                    |                                                   | IC1006,IC1007<br>IC1008<br>IC1003<br>Q1000,Q1010,Q1015-Q1019<br>Q1022,Q1025                     |                    | TC74VHC175FT<br>TC74VHC74FT<br>TC7WU04FU<br>2SC2412K<br>DTA124EUA              |
|   | S551                                                                                      |                    | DSK1030                                           | Q1001-Q1005,Q1011-Q1014<br>Q1020,Q1021,Q1023,Q1024<br>Q1026,Q1027<br>D1024-D1033<br>D1036,D1037 |                    | DTC124EUA<br>DTC124EUA<br>DTC124EUA<br>1SS355<br>NNCD6.2MF                     |
| E | <b>CAPACITORS</b>                                                                         |                    |                                                   | D1003,D1016<br>D1000-D1002,D1004,D1005<br>D1013-D1015,D1034,D1035<br>D1012,D1017-D1019<br>D1020 |                    | SLI-343URCW(RST)<br>SLI-343YCW(RST)<br>SLI-343YCW(RST)<br>UDZS5.6B<br>UDZS9.1B |
|   | C582-C591,C597<br>C592-C596<br>C551                                                       |                    | CKSRYB104K25<br>CKSRYB105K6R3<br>CQMA103J50       | D1003,D1016<br>D1000-D1002,D1004,D1005<br>D1013-D1015,D1034,D1035<br>D1012,D1017-D1019<br>D1020 |                    | SLI-343URCW(RST)<br>SLI-343YCW(RST)<br>SLI-343YCW(RST)<br>UDZS5.6B<br>UDZS9.1B |
|   | <b>RESISTORS</b>                                                                          |                    |                                                   | D1007-D1011,D1021-D1023                                                                         |                    | UY5365S                                                                        |
|   | VR552,VR554<br>VR551,VR555<br>VR553<br>Other Resistors                                    |                    | DCS1076<br>DCS1077<br>DCS1079<br>RS1/16S###J      | D1007-D1011,D1021-D1023                                                                         |                    | UY5365S                                                                        |
|   | <b>OTHERS</b>                                                                             |                    |                                                   | <b>SWITCHES AND RELAYS</b>                                                                      |                    |                                                                                |
|   | CN551 17P FFC CONNECTOR<br>CN553 3P FFC CONNECTOR<br>CN552 6P FFC CONNECTOR<br>JA551 JACK |                    | 52044-1745<br>52045-0345<br>52492-0620<br>VKN1802 | S1005,S1015<br>S1007,S1008<br>S1006,S1009<br>S1000-S1004,S1010-S1014                            |                    | DSG1079<br>DSK1034<br>DSX1054<br>VSG1024                                       |
| F |                                                                                           |                    |                                                   | <b>CAPACITORS</b>                                                                               |                    |                                                                                |
|   |                                                                                           |                    |                                                   | C1024<br>C1045,C1046,C1048-C1050,C1052<br>C1072-C1074<br>C1023<br>C1003-C1005,C1007,C1013       |                    | CCSRCH120J50<br>CCSRCH121J50<br>CCSRCH121J50<br>CCSRCH150J50<br>CEAL4R7M50     |

| <u>Mark No.</u>               | <u>Description</u> | <u>Part No.</u> |
|-------------------------------|--------------------|-----------------|
| C1027,C1028                   |                    | CEJQ101M10      |
| C1055                         |                    | CEJQ220M25      |
| C1033                         |                    | CEJQ330M35      |
| C1056                         |                    | CEJQ470M16      |
| C1026                         |                    | CEJQ470M25      |
| C1001,C1017,C1020-C1022       |                    | CKSRYB102K50    |
| C1041-C1043,C1054,C1062-C1064 |                    | CKSRYB102K50    |
| C1067,C1070                   |                    | CKSRYB102K50    |
| C1000,C1012,C1034-C1040,C1051 |                    | CKSRYB103K50    |
| C1053,C1059-C1061,C1078-C1082 |                    | CKSRYB103K50    |
| C1002,C1006,C1008-C1011       |                    | CKSRYB104K25    |
| C1014-C1016,C1018,C1019,C1025 |                    | CKSRYB104K25    |
| C1029-C1032,C1044,C1047       |                    | CKSRYB104K25    |
| C1057,C1058,C1065,C1066       |                    | CKSRYB104K25    |
| C1068,C1069,C1071,C1075       |                    | CKSRYB104K25    |

**RESISTORS**

|                         |              |
|-------------------------|--------------|
| R1011-R1014,R1040,R1041 | RAB4C0R0J    |
| R1023                   | RAB4C103J    |
| R1021,R1025,R1029,R1031 | RS1/16S1001F |
| R1027                   | RS1/16S1002F |
| R1059                   | RS1/16S1502F |
| R1000                   | RS1/16S2201F |
| R1009                   | RS1/16S3302F |
| VR1001,VR1003           | DCS1078      |
| VR1000,VR1002           | DCS1080      |
| Other Resistors         | RS1/16S###J  |

**OTHERS**

|        |                              |            |
|--------|------------------------------|------------|
| CN1002 | FFC CONNECTOR 21P            | 52492-2120 |
| CN1000 | CONNECTOR                    | 52976-2492 |
| CN1003 | 04P FFC CONNECTOR            | 9610S-04B  |
| X1000  | CRYSTAL RESONATOR<br>(24MHz) | ASS7025    |
| 0      | LCD HOLDER                   | DNK4221    |
| CN1001 | KR CONNECTOR                 | S6B-PH-K   |

# 6. ADJUSTMENT

## 6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED



### DSP Assy

- When repaired

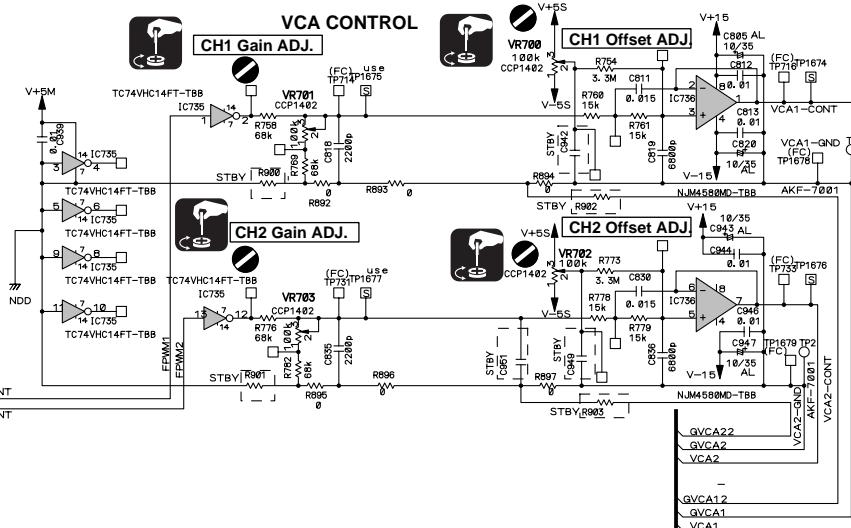
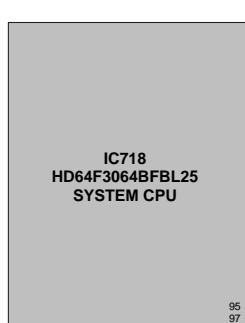
No adjustment required.

- When repaired

**When repair and System CPU are exchanged for a VCA control circuit**

- When fixing and part exchanging a Ch1 VCA control circuit → CH1 Gain Adjustment, CH1 Offset Adjustment
- When fixing and part exchanging a Ch2 VCA control circuit → CH2 Gain Adjustment, CH2 Offset Adjustment

- Adjusting Point



### C1EQ Assy

- When repaired

No adjustment required.

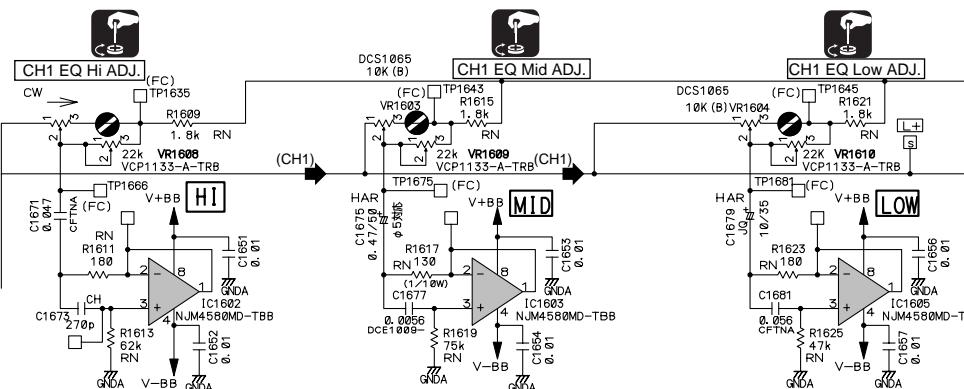
- When repaired

**When repair and parts are exchanged for EQ circuit**

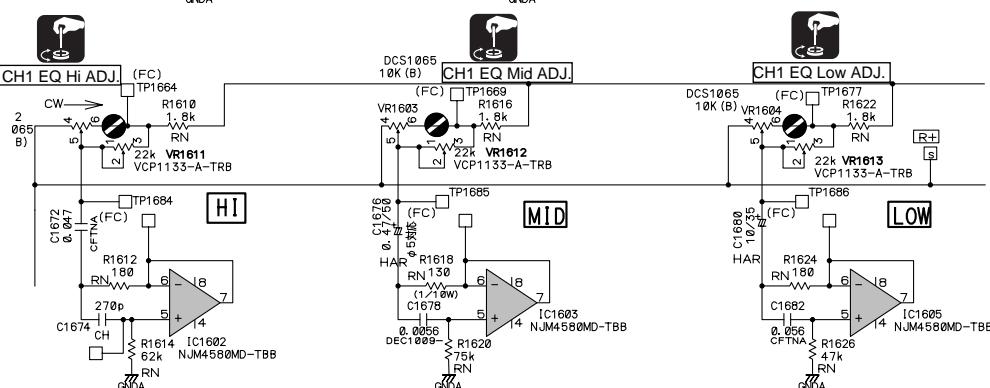
- When fixing and part exchanging a Ch1 Lch (Rch) EQ (Hi) circuit → CH1 Lch (Rch) EQ Hi Adjustment
- When fixing and part exchanging a Ch1 Lch (Rch) EQ (Mid) circuit → CH1 Lch (Rch) EQ Mid Adjustment
- When fixing and part exchanging a Ch1 Lch (Rch) EQ (Low) circuit → CH1 Lch (Rch) EQ Low Adjustment

- Adjusting Point

### CH1 EQ Lch



### CH2 EQ Rch



## C2EQ Assy

### • When repaired

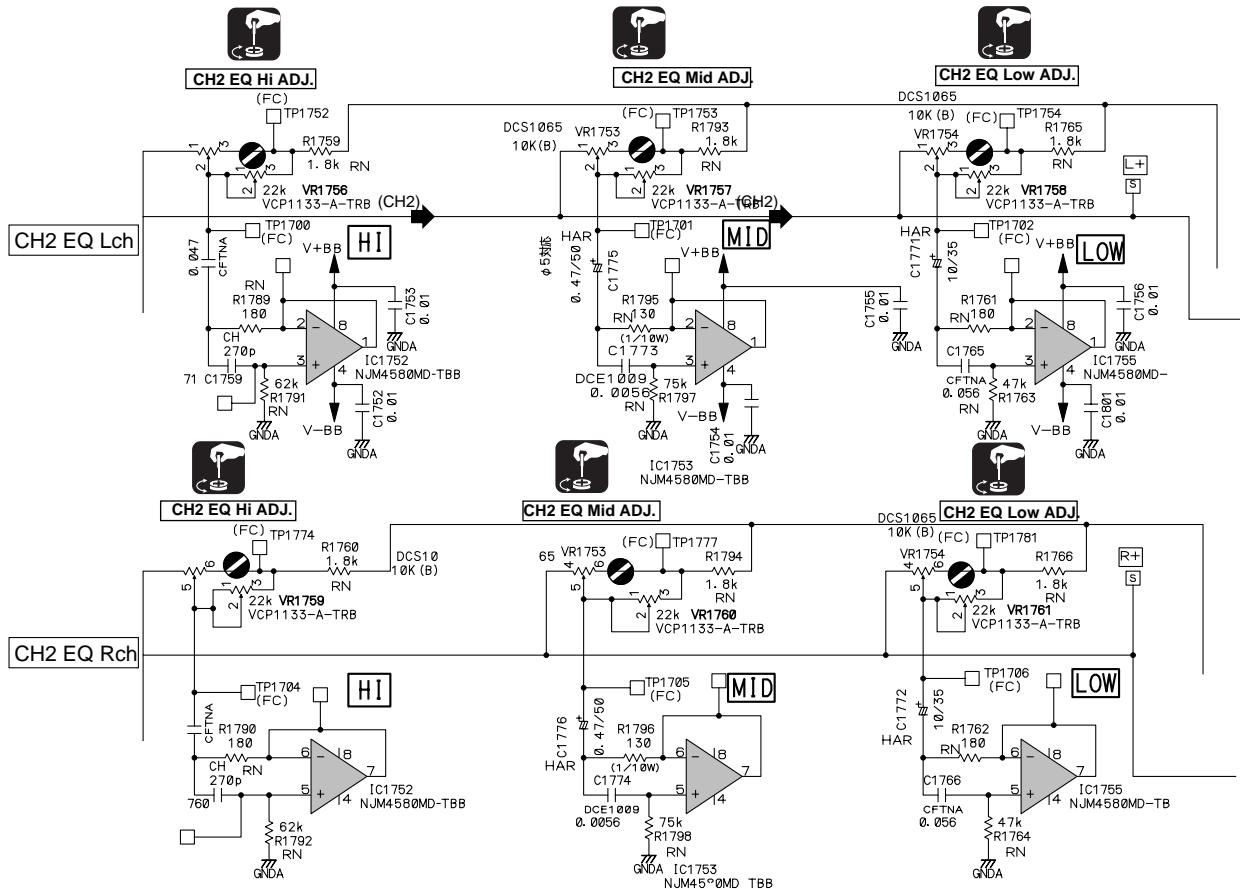
No adjustment required.

### • When repaired

### • Adjusting Point

#### When repair and parts are exchanged for EQ circuit

- When fixing and part exchanging a Ch2 Lch (Rch) EQ (Hi) circuit. → CH2 Lch (Rch) EQ Hi Adjustment
- When fixing and part exchanging a Ch2 Lch (Rch) EQ (Mid) circuit → CH2 Lch (Rch) EQ Mid Adjustment
- When fixing and part exchanging a Ch2 Lch (Rch) EQ (Low) circuit → CH2 Lch (Rch) EQ Low Adjustment



## 6.2 CH1 OFFSET ADJUSTMENT

### ■ Adjustment condition

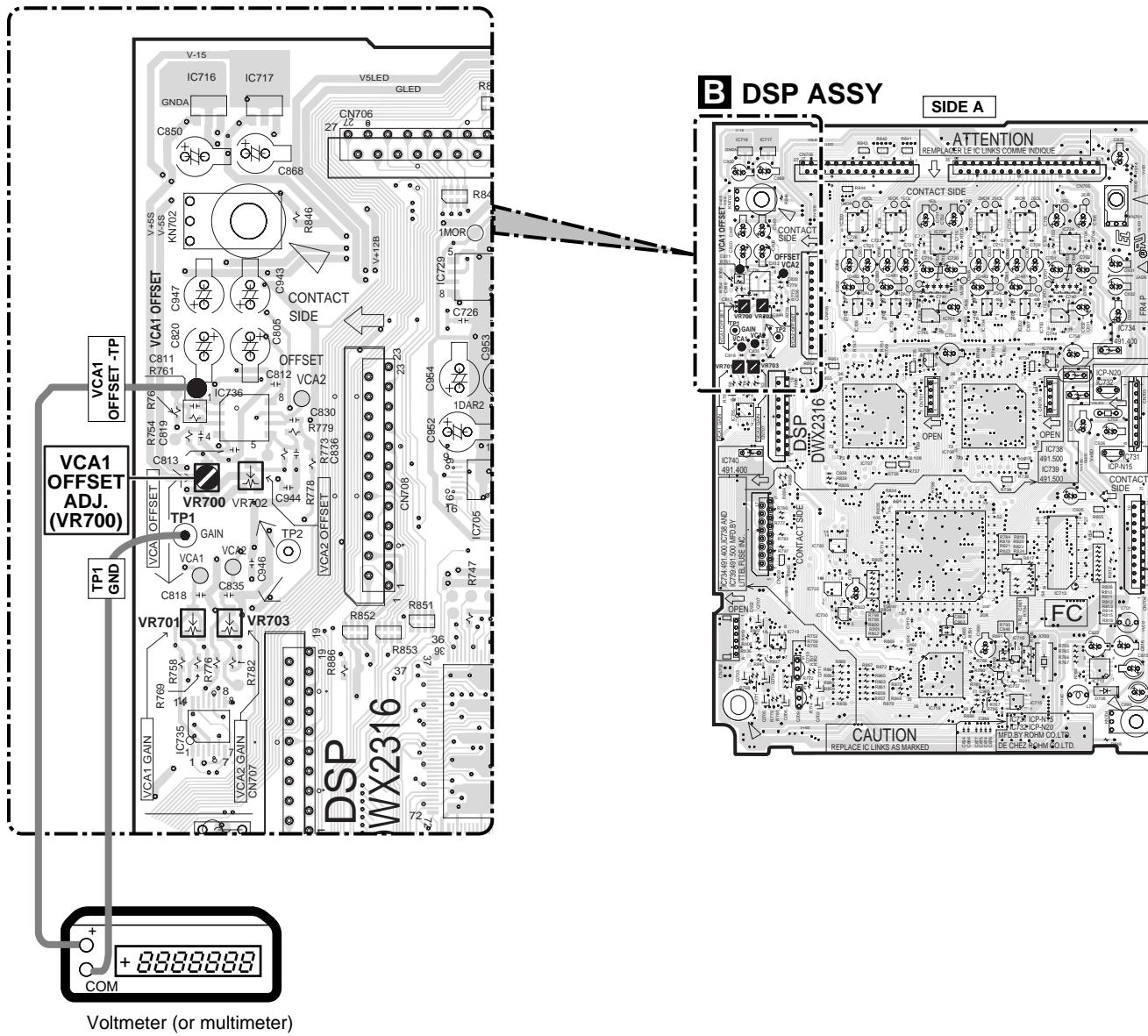
- Power -ON state

### ■ Measuring instrument

- Digital multi-meter which can be measured to 0.1mV unit

### ■ Adjustment value / Adjustment points

- $0V \pm 0.01V$  (VR700)



Adjustment points / Connection diagram

## 6.3 CH1 GAIN ADJUSTMENT

### ■ Adjustment condition

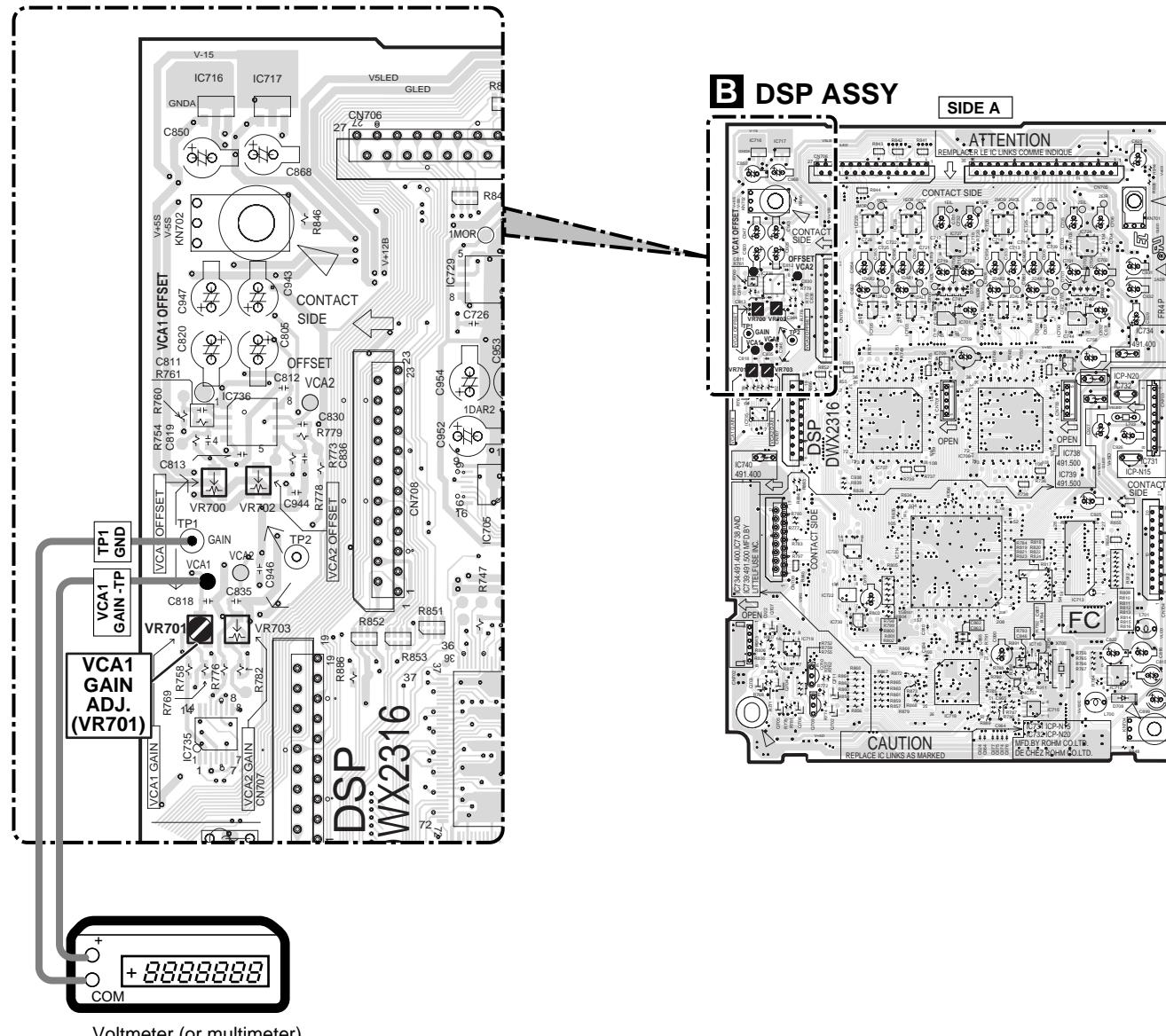
- Power -ON state

### ■ Measuring instrument

- Digital multi-meter which can be measured to 0.1mV unit

### ■ Adjustment value / Adjustment points

- $3V \pm 0.01V$  (VR701)



## 6.4 CH2 OFFSET ADJUSTMENT

### A Adjustment condition

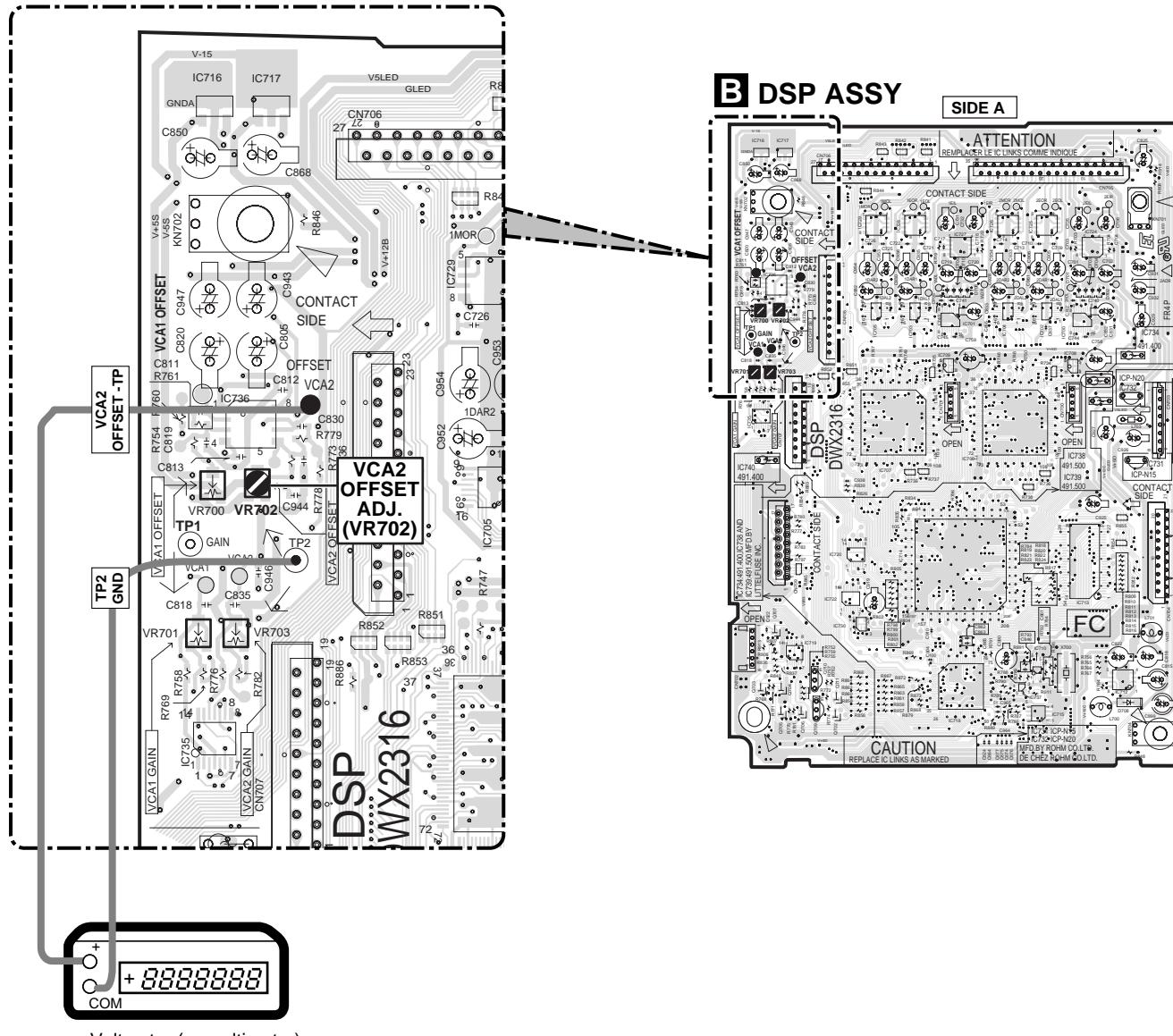
- Power -ON state

### B Measuring instrument

- Digital multi-meter which can be measured to 0.1mV unit

### C Adjustment value / Adjustment points

- $0V \pm 0.01V$  (VR702)



Adjustment points / Connection diagram

## 6.5 CH2 GAIN ADJUSTMENT

### ■ Adjustment condition

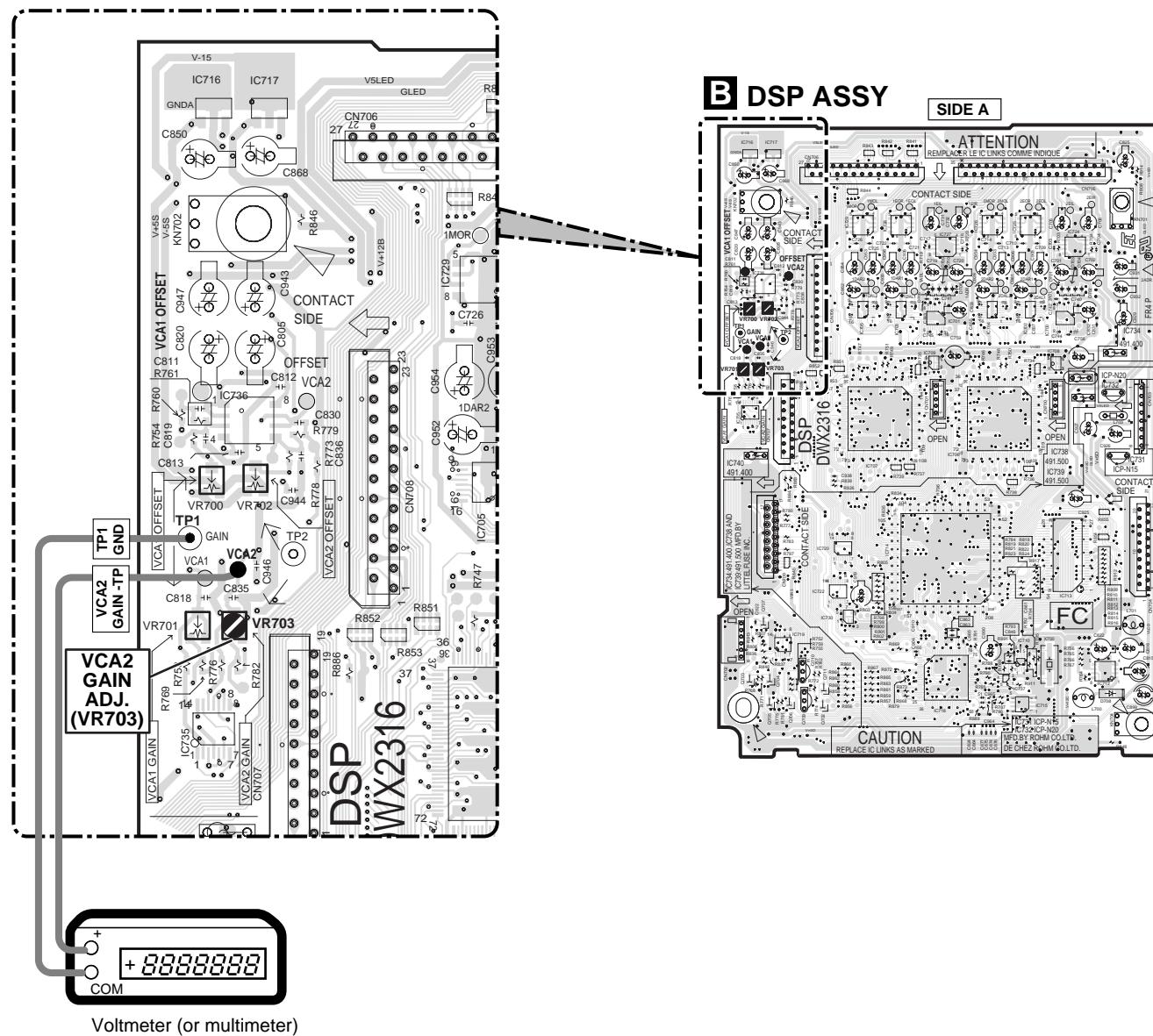
- Power -ON state

### ■ Measuring instrument

- Digital multi-meter which can be measured to 0.1mV unit

### ■ Adjustment value / Adjustment points

- $3V \pm 0.01V$  (VR703)



Adjustment points / Connection diagram

## 6.6 CH1 EQ Low ADJUSTMENT

### ■ Adjustment condition

- CH1 EQ ADJ VR [ VR1604 (LOW): **B** , VR1603 (MID): **C** , VR1602 (HI) : **D** ] : Center click
- CH1 INPUT SELECTOR: CD1 **J** , CH1 FADER: MAX **K** , CROSS FADER: 1 side **L** , MASTER LEVEL: MAX **M**
- EFFECT OFF: **N** , TRANSFORM: **O** , FADER REVERSE SW: **P** : All are turned OFF

### ■ Measuring instrument

- Low frequency transmitter
- Analog voltage meter which can be measured to 0.2dB unit

### ■ Adjustment method

Set the output of transmitter to 70Hz 2Vrms.

#### • Lch EQ Low ADJ.

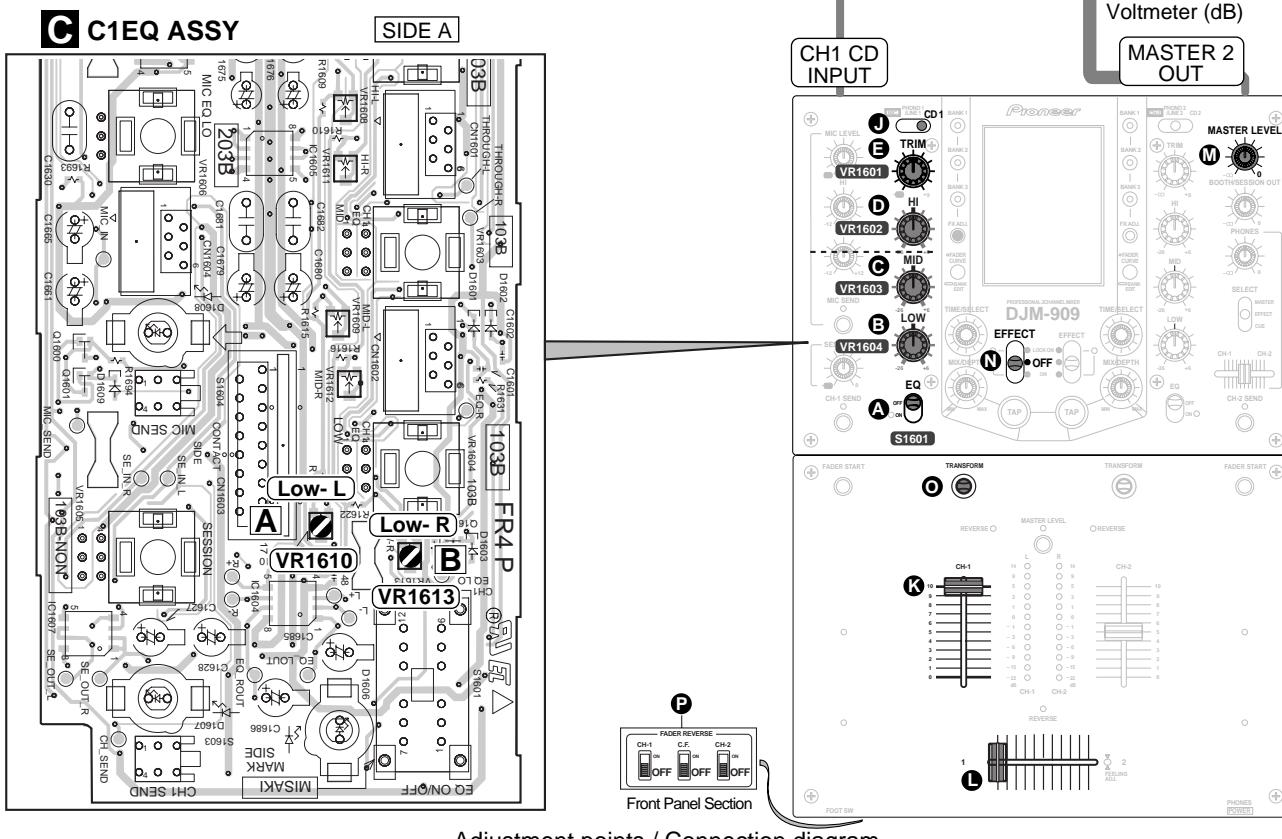
1. Turn S1601 (CH1 EQ ON/OFF: **A** ) to OFF.
2. Adjust VR1601 (CH1 TRIM: **E** ) so that the L ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1601 (CH1 EQ ON/OFF: **A** ) to ON.
4. Adjust VR1610 (C1EQ Assy (CH1 Low Lch) : **A** ) so that the L ch output becomes **0dBv+0.2/-0dB**.

#### • Rch EQ Low ADJ.

1. Turn S1601 (CH1 EQ ON/OFF: **A** ) to OFF.
2. Adjust VR1601 (CH1 TRIM: **E** ) so that the R ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1601 (CH1 EQ ON/OFF: **A** ) to ON.
4. Adjust VR1613 (C1EQ Assy (CH1 Low Rch) : **B** ) so that the R ch output becomes **0dBv+0.2/-0dB**.

### ■ Adjustment value / Adjustment points

- Lch EQ Low ADJ. :  $0\text{dBv} + 0.2/-0\text{dbv}$  (VR1610)
- Rch EQ Low ADJ. :  $0\text{dBv} + 0.2/-0\text{dbv}$  (VR1613)



## 6.7 CH1 EQ Mid ADJUSTMENT

### ■ Adjustment condition

- CH1 EQ ADJ VR [ VR1604 (LOW): **B**, VR1603 (MID): **C**, VR1602 (HI) : **D** ] : Center click
- CH1 INPUT SELECTOR: CD1 **J**, CH1 FADER: MAX **K**, CROSS FADER: 1 side **L**, MASTER LEVEL: MAX **M**
- EFFECT OFF: **N**, TRANSFORM: **O**, FADER REVERSE SW: **P** : All are turned OFF

### ■ Measuring instrument

- Low frequency transmitter
- Analog voltage meter which can be measured to 0.2dB unit

### ■ Adjustment method

Set the output of transmitter to 1kHz 2Vrms.

#### • Lch EQ Mid ADJ.

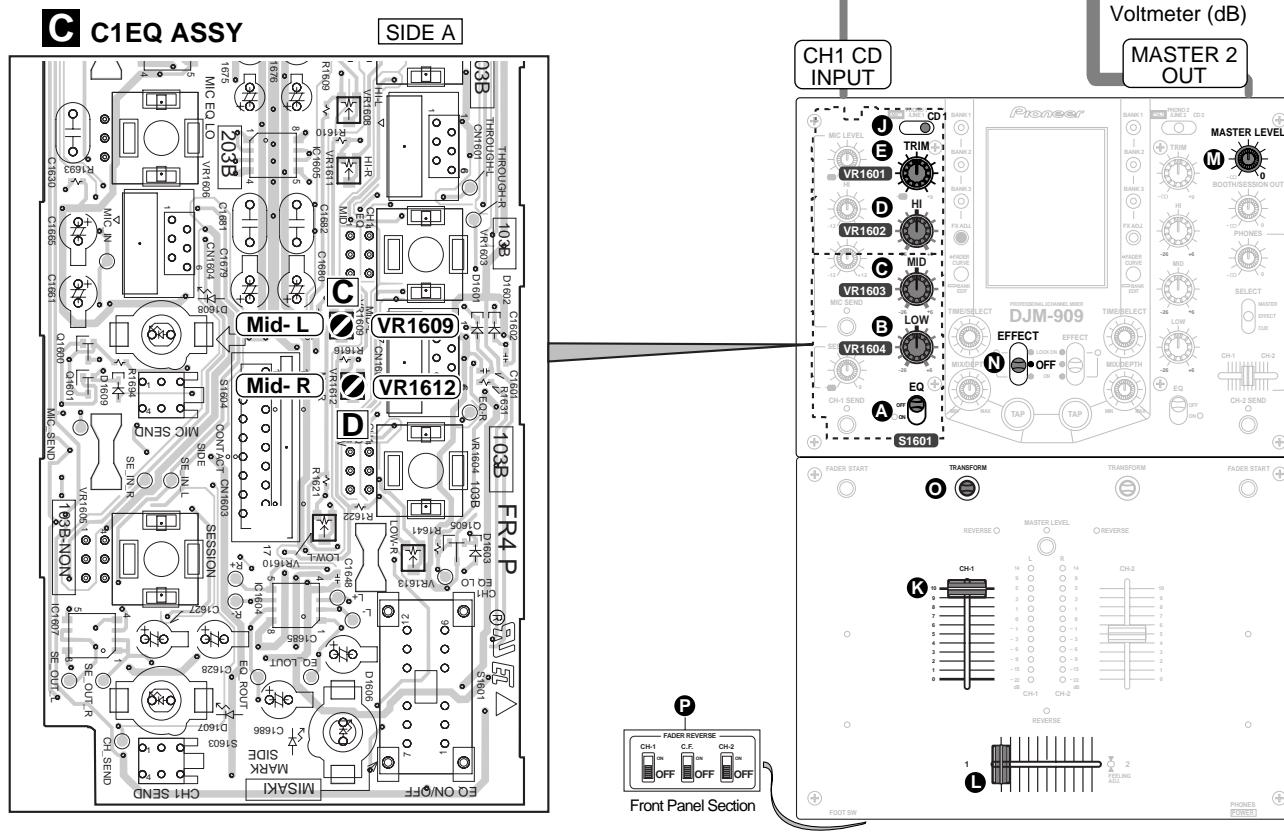
1. Turn S1601 (CH1 EQ ON/OFF: **A**) to OFF.
2. Adjust VR1601 (CH1 TRIM: **E**) so that the L ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1601 (CH1 EQ ON/OFF: **A**) to ON.
4. Adjust VR1609 (C1EQ Assy (CH1 Mid Lch) : **C**) so that the L ch output becomes **0dBv+0.2/-0dB**.

#### • Rch EQ Mid ADJ.

1. Turn S1601 (CH1 EQ ON/OFF: **A**) to OFF.
2. Adjust VR1601 (CH1 TRIM: **E**) so that the R ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1601 (CH1 EQ ON/OFF: **A**) to ON.
4. Adjust VR1612 (C1EQ Assy (CH1 Mid Rch) : **D**) so that the R ch output becomes **0dBv+0.2/-0dB**.

### ■ Adjustment value / Adjustment points

- Lch EQ Mid ADJ. : 0dBv + 0.2/-0dbv (VR1609)
- Rch EQ Mid ADJ. : 0dBv + 0.2/-0dbv (VR1612)



## 6.8 CH1 EQ Hi ADJUSTMENT

### ■ Adjustment condition

- CH1 EQ ADJ VR [ VR1604 (LOW): **B** , VR1603 (MID): **C** , VR1602 (HI) : **D** ] : Center click
- CH1 INPUT SELECTOR: CD1 **J** , CH1 FADER: MAX **K** , CROSS FADER: 1 side **L** , MASTER LEVEL: MAX **M**
- EFFECT OFF: **N** , TRANSFORM: **O** , FADER REVERSE SW: **P** : All are turned OFF

### ■ Measuring instrument

- Low frequency transmitter
- Analog voltage meter which can be measured to 0.2dB unit

### ■ Adjustment method

Set the output of transmitter to 13kHz 2Vrms.

#### • Lch EQ Hi ADJ.

1. Turn S1601 (CH1 EQ ON/OFF: **A** ) to OFF.
2. Adjust VR1601 (CH1 TRIM: **E** ) so that the L ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1601 (CH1 EQ ON/OFF: **A** ) to ON.
4. Adjust VR1608 (C1EQ Assy (CH1 Hi Lch) : **E** ) so that the L ch output becomes **0dBv+0.2/-0dB**.

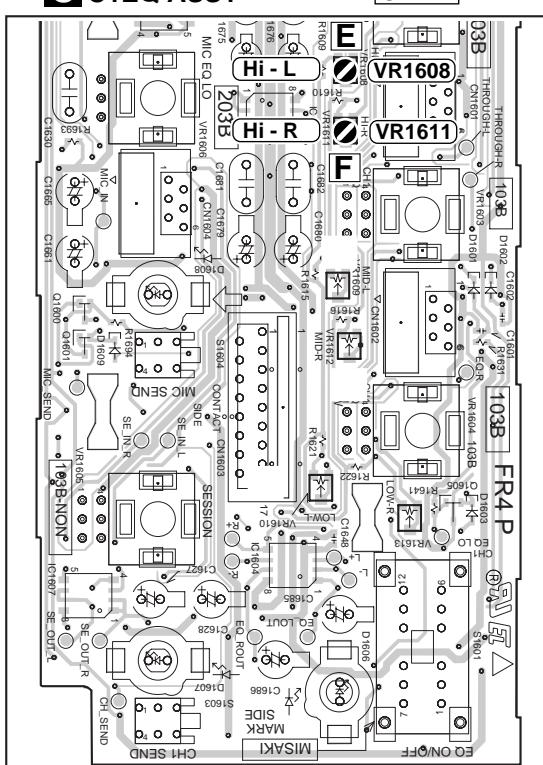
#### • Rch EQ Hi ADJ.

1. Turn S1601 (CH1 EQ ON/OFF: **A** ) to OFF.
2. Adjust VR1601 (CH1 TRIM: **E** ) so that the R ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1601 (CH1 EQ ON/OFF: **A** ) to ON.
4. Adjust VR1611 (C1EQ Assy (CH1 Hi Rch) : **F** ) so that the R ch output becomes **0dBv+0.2/-0dB**.

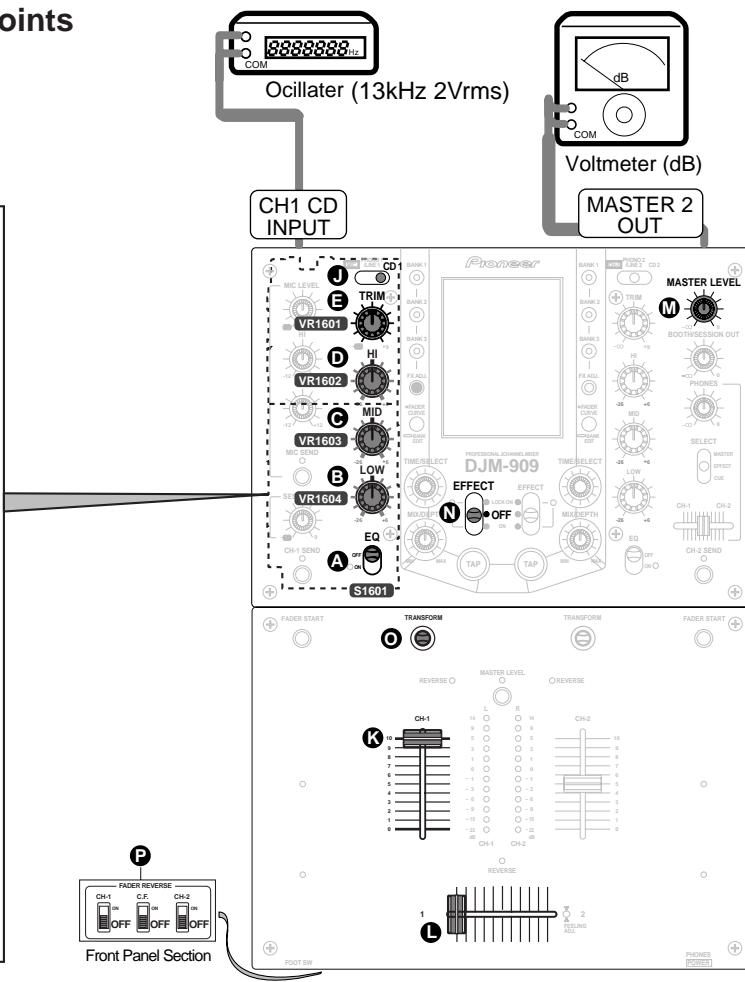
### ■ Adjustment value / Adjustment points

- Lch EQ Hi ADJ. : 0dBv + 0.2/-0dbv (VR1608)
- Rch EQ Hi ADJ. : 0dBv + 0.2/-0dbv (VR1611)

### C C1EQ ASSY



SIDE A



Adjustment points / Connection diagram

## 6.9 CH2 EQ Low ADJUSTMENT

### ■ Adjustment condition

- CH2 EQ ADJ VR [ VR1754 (LOW): **G**, VR1753 (MID): **H**, VR1752 (HI) : **I** ] : Center click
- CH2 INPUT SELECTOR: CD2 **J** , CH2 FADER: MAX **K** , CROSS FADER: 2 side **L** , MASTER LEVEL: MAX **M**
- EFFECT OFF: **N** , TRANSFORM: **O** , FADER REVERSE SW: **P** : All are turned OFF

### ■ Measuring instrument

- Low frequency transmitter
- Analog voltage meter which can be measured to 0.2dB unit

### ■ Adjustment method

Set the output of transmitter to 70Hz 2Vrms.

#### • Lch EQ Low ADJ.

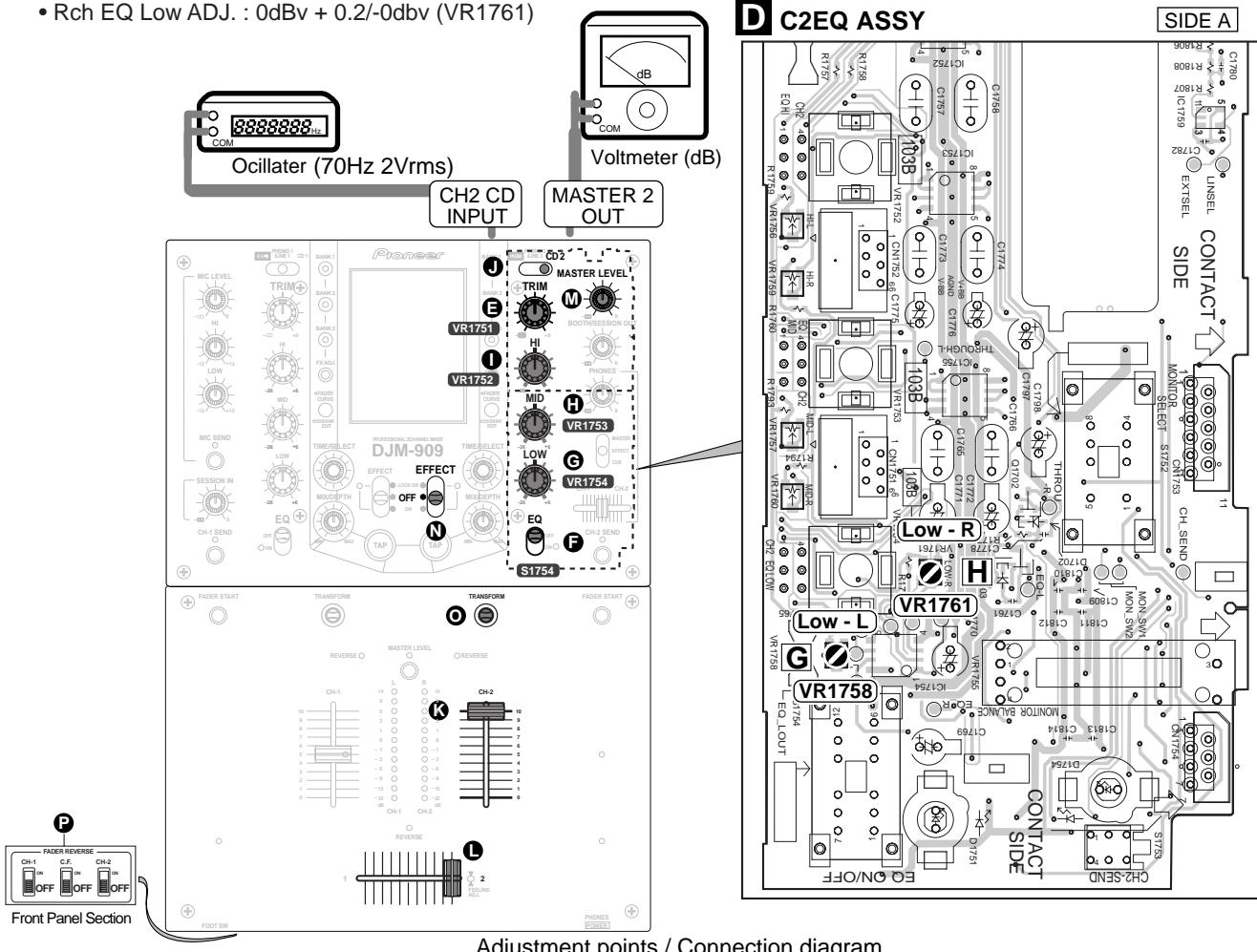
1. Turn S1754 (CH2 EQ ON/OFF: **F** ) to OFF.
2. Adjust VR1751 (CH2 TRIM: **E** ) so that the L ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1754 (CH2 EQ ON/OFF: **F** ) to ON.
4. Adjust VR1758 (C2EQ Assy (CH2 Low Lch) : **G** ) so that the L ch output becomes **0dBv+0.2/-0dB**.

#### • Rch EQ Low ADJ.

1. Turn S1754 (CH2 EQ ON/OFF: **F** ) to OFF.
2. Adjust VR1751 (CH2 TRIM: **E** ) so that the R ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1754 (CH2 EQ ON/OFF: **F** ) to ON.
4. Adjust VR1761 (C2EQ Assy (CH2 Low Rch) : **H** ) so that the R ch output becomes **0dBv+0.2/-0dB**.

### ■ Adjustment value / Adjustment points

- Lch EQ Low ADJ. : 0dBv + 0.2/-0dbv (VR1758)
- Rch EQ Low ADJ. : 0dBv + 0.2/-0dbv (VR1761)



Adjustment points / Connection diagram

## 6.10 CH2 EQ Mid ADJUSTMENT

### ■ Adjustment condition

- CH2 EQ ADJ VR [ VR1754 (LOW): G , VR1753 (MID): H , VR1752 (HI) : I ] : Center click
- CH2 INPUT SELECTOR: CD2 J , CH2 FADER: MAX K , CROSS FADER: 2 side L , MASTER LEVEL: MAX M
- EFFECT OFF: N , TRANSFORM: O , FADER REVERSE SW: P : All are turned OFF

### ■ Measuring instrument

- Low frequency transmitter
- Analog voltage meter which can be measured to 0.2dB unit

### ■ Adjustment method

Set the output of transmitter to 1kHz 2Vrms.

#### • Lch EQ Mid ADJ.

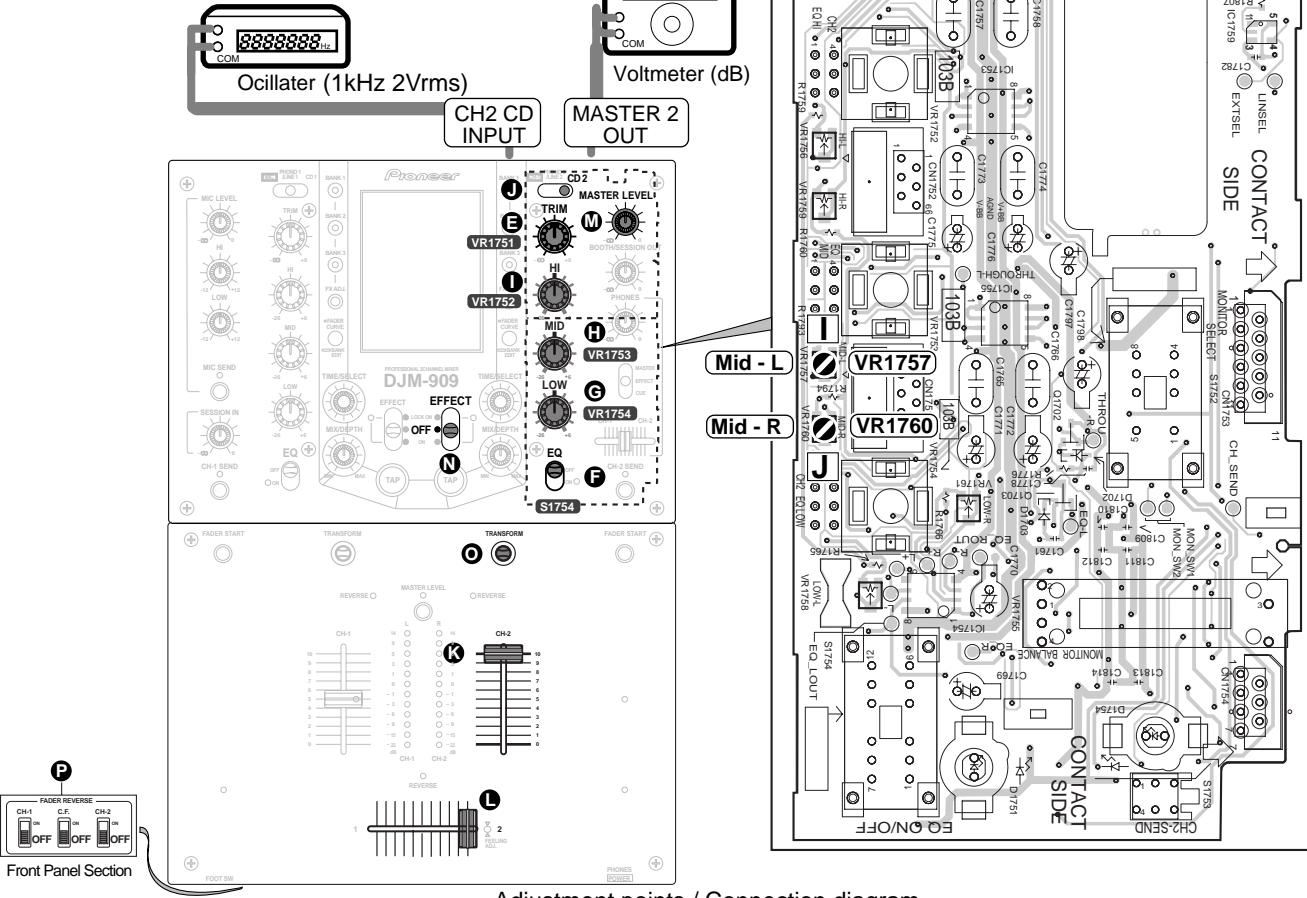
1. Turn S1754 (CH2 EQ ON/OFF: F ) to OFF.
2. Adjust VR1751 (CH2 TRIM: E ) so that the L ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1754 (CH2 EQ ON/OFF: F ) to ON.
4. Adjust VR1757 (C2EQ Assy (CH2 Mid Lch) : I ) so that the L ch output becomes **0dBv+0.2/-0dB**.

#### • Rch EQ Mid ADJ.

1. Turn S1754 (CH2 EQ ON/OFF: F ) to OFF.
2. Adjust VR1751 (CH2 TRIM: E ) so that the R ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1754 (CH2 EQ ON/OFF: F ) to ON.
4. Adjust VR1760 (C2EQ Assy (CH2 Mid Rch) : J ) so that the R ch output becomes **0dBv+0.2/-0dB**.

### ■ Adjustment value / Adjustment points

- Lch EQ Mid ADJ. : 0dBv + 0.2/-0dbv (VR1757)
- Rch EQ Mid ADJ. : 0dBv + 0.2/-0dbv (VR1760)



Adjustment points / Connection diagram

## 6.11 CH2 EQ Hi ADJUSTMENT

### ■ Adjustment condition

- CH2 EQ ADJ VR [ VR1754 (LOW): **G**, VR1753 (MID): **H**, VR1752 (HI) : **I** ] : Center click
- CH2 INPUT SELECTOR: CD2 **J** , CH2 FADER: MAX **K** , CROSS FADER: 2 side **L** , MASTER LEVEL: MAX **M**
- EFFECT OFF: **N** , TRANSFORM: **O** , FADER REVERSE SW: **P** : All are turned OFF

### ■ Measuring instrument

- Low frequency transmitter
- Analog voltage meter which can be measured to 0.2dB unit

### ■ Adjustment method

Set the output of transmitter to 13kHz 2Vrms.

#### • Lch EQ Hi ADJ.

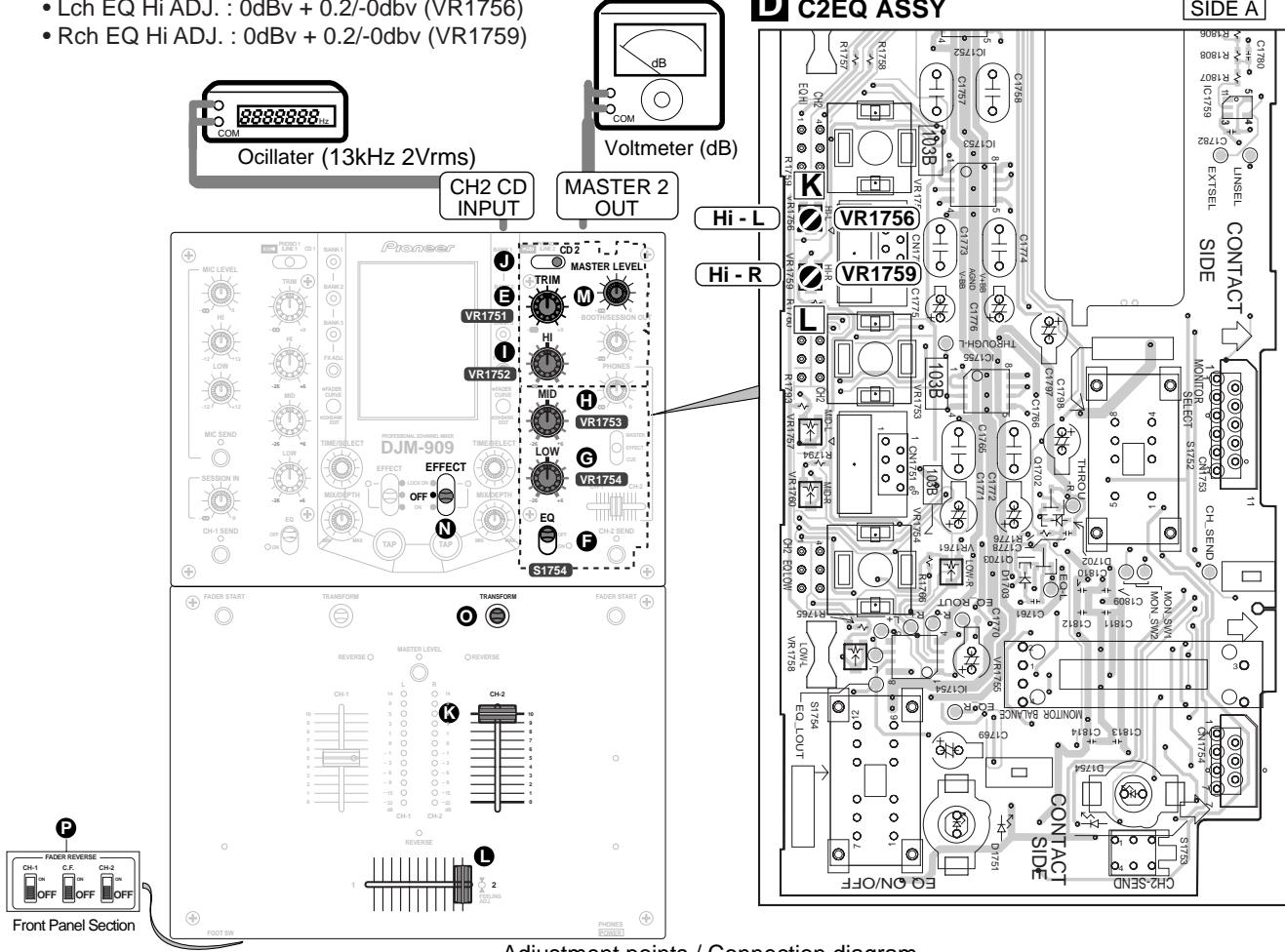
1. Turn S1754 (CH2 EQ ON/OFF: **F** ) to OFF.
2. Adjust VR1751 (CH2 TRIM: **E** ) so that the L ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1754 (CH2 EQ ON/OFF: **F** ) to ON.
4. Adjust VR1756 (C2EQ Assy (CH2 Hi Lch) : **K** ) so that the L ch output becomes **0dBv+0.2/-0dB**.

#### • Rch EQ Hi ADJ.

1. Turn S1754 (CH2 EQ ON/OFF: **F** ) to OFF.
2. Adjust VR1751 (CH2 TRIM: **E** ) so that the R ch output becomes **0dBv+0.2/-0dB**.
3. Turn S1754 (CH2 EQ ON/OFF: **F** ) to ON.
4. Adjust VR1759 (C2EQ Assy (CH2 Hi Rch) : **L** ) so that the R ch output becomes **0dBv+0.2/-0dB**.

### ■ Adjustment value / Adjustment points

- Lch EQ Hi ADJ. : 0dBv + 0.2/-0dbv (VR1756)
- Rch EQ Hi ADJ. : 0dBv + 0.2/-0dbv (VR1759)



## 7. GENERAL INFORMATION

### 7.1 DIAGNOSIS

#### A 7.1.1 SERVICE MODE

##### 1. Outline of Service Mode

- This unit is controlled by a system control microcomputer, which controls the whole system, and an LCD microcomputer, which processes displays and effects. Setup modes for both the system control microcomputer and the LCD microcomputer, and Test mode for the LCD microcomputer are provided.

① Display Check mode

Mode for checking button inputs and display functions

② Setup mode

Initial Setting mode for the noncontact fader, Calibration mode for the touch panel, and Factory-Preset Effect mode can be selected from this mode.

③ Initial Setting mode for the noncontact fader

Mode for initial setting of the noncontact fader.

(If this initial setting is not correctly performed, correct crossfader signals cannot be output.)

One of the modes selected from Setup mode.

B Note:

After replacement of the Noncontact Fader Assy or DSP Assy or rewriting of the program for the system control microcomputer, be sure to make this initial setting.

④ Calibration mode for the touch panel

Mode for calibrating the touch panel.

(If calibration is not correctly performed, the indications on the touch panel may be shifted from the corresponding operational positions.)

One of the modes selected from Setup mode.

C

Note:

After replacement of the LCD Assy or the LCD microcomputer, it is necessary to calibrate the touch panel.

⑤ Factory-Preset Effect mode

Mode for resetting the effect type and parameter values to factory-preset values. One of the modes selected from Setup mode.

⑥ Version Check mode

You can check the software version of each microcomputer.

D

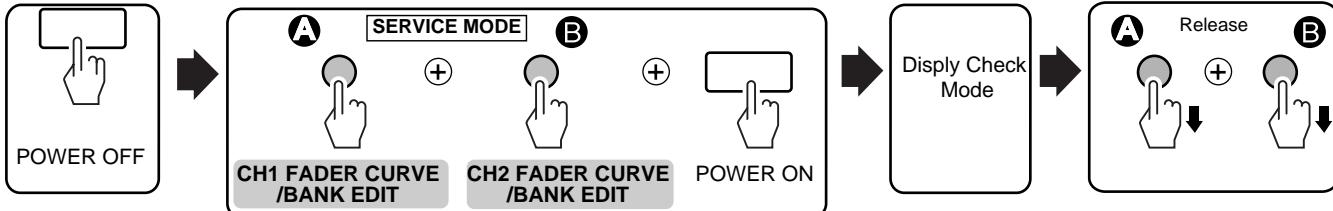
E

F

## 2. Display Check Mode

To enter this mode, while holding the CH1 FADER CURVE/ BANK EDIT and CH2 FADER CURVE/ BANK EDIT buttons pressed, press the POWER button.

### Display Check Mode : ON



### Display Check Mode : CANCEL



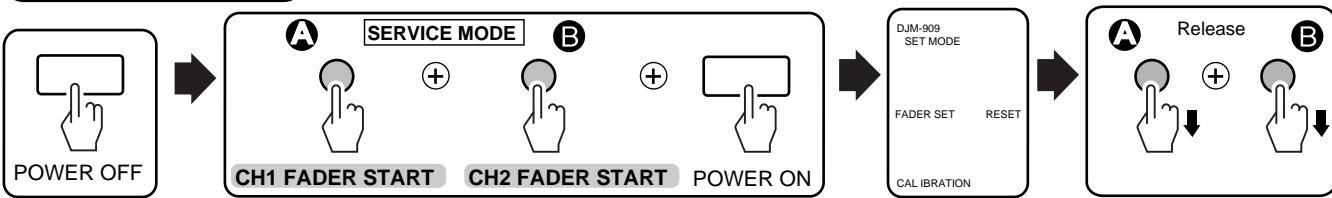
- In this mode, you can check if the input to each button or VR is normal and if the display functions normally by observing the corresponding indications, as shown in the table below:

| Type | Button                     | Indication                                                                                                |
|------|----------------------------|-----------------------------------------------------------------------------------------------------------|
|      | CH1 BANK1                  | The LED for CH1 BANK1 lights up.                                                                          |
|      | CH1 BANK2                  | The LED for CH1 BANK2 lights up.                                                                          |
|      | CH1 BANK3                  | The LED for CH1 BANK3 lights up.                                                                          |
|      | CH2 BANK1                  | The LED for CH2 BANK1 lights up.                                                                          |
|      | CH2 BANK2                  | The LED for CH2 BANK2 lights up.                                                                          |
|      | CH2 BANK3                  | The LED for CH2 BANK3 lights up.                                                                          |
|      | CH1 FX ADJ.                | The CH1 EFFECT2 indication on the LCD lights up.                                                          |
|      | CH1 FADER CURVE/ BANK EDIT | The CH1 EFFECT3 indication on the LCD lights up.                                                          |
|      | CH2 FX ADJ.                | The CH2 EFFECT2 indication on the LCD lights up.                                                          |
|      | CH2 FADER CURVE/ BANK EDIT | The CH2 EFFECT3 indication on the LCD lights up.                                                          |
|      | CH1 EFFECT                 | The LED for CH1 EFFECT lights up.                                                                         |
|      | CH2 EFFECT                 | The LED for CH2 EFFECT lights up.                                                                         |
|      | CH1 TAP                    | The CH2 EFFECT1 indication on the LCD lights up.                                                          |
|      | CH2 TAP                    | The CH2 EFFECT1 indication on the LCD lights up.                                                          |
|      | Touch panel                | The CH1 EFFECT1 indication on the LCD lights up.                                                          |
|      | CH1 TIME/SELECT            | The value of the CH1 parameter on the LCD increases as the CH1 TIME/SELECT button is turned clockwise.    |
|      | CH2 TIME/SELECT            | The value of the CH2 parameter on the LCD increases as the CH2 TIME/SELECT button is turned clockwise.    |
|      | CH1 MIX/DEPTH              | The value of the CH1 BPM indication on the LCD increases as the CH1 MIX/DEPTH button is turned clockwise. |
|      | CH2 MIX/DEPTH              | The value of the CH2 BPM indication on the LCD increases as the CH2 MIX/DEPTH button is turned clockwise. |

### 3. Setup mode

To enter Setup mode, while holding both the CH1 FADER START and CH2 FADER START buttons pressed, press the POWER button.

#### Setup Mode : ON



- When Setup mode is activated, "DJM-909 SETMODE" is displayed on the LCD.

During Setup mode, if the CH1 FX ADJ. button is pressed, Initial Setting mode for the noncontact fader is activated.

During Setup mode, if the CH1 FADER CURVE/ BANK EDIT button is pressed, Calibration mode for the touch panel is activated.

During Setup mode, if the CH2 FX ADJ. button is pressed, Factory-Preset Effect mode is activated.

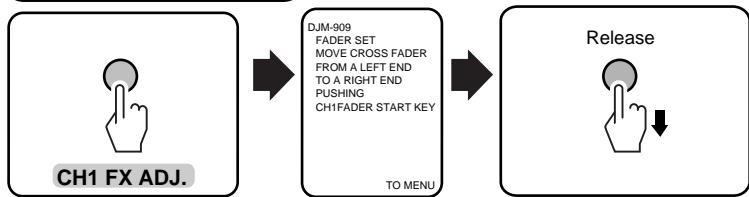
#### Setup Mode : CANCEL



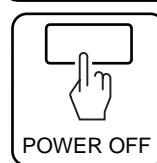
### 4. Initial Setting mode for the noncontact fader

To enter this mode, press the CH1 FX ADJ. button during Setup mode. (For details on how to enter Setup mode, see "3. Setup mode".)

#### Fader Setup Mode



#### Fader Setup Mode : CANCEL



- When Initial Setting mode for the noncontact fader is activated, "DJM-909 FADER SET MOVE CROSS FADER FROM A LEFT END TO A RIGHT END PUSHING CH1 FADER START KEY" is displayed on the LCD.

#### How to set up

- Move the crossfader lever to the leftmost position.
  - While holding the CH1 FADER START button pressed, move the crossfader lever to the rightmost position.  
Move the lever at a constant speed from the leftmost to the rightmost position, taking 1.5 seconds or more.
  - Release the CH1 FADER START button.
- When the initial setting is completed, "END" is displayed on the LCD, and the CH-1 FADER START and C.F.1 FADER START indications light up.
  - If the initial setting fails, "ERROR" is displayed on the LCD, and the CH-1 FADER START, C.F.1 FADER START, CH-2 FADER START, or C.F.2 FADER START indication flashes, depending on the type of error.

| LED               | Error                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| CH-1 FADER START  | Start error: At the start of making the initial setting, the crossfader lever was not set to its leftmost position. |
| C.F.1 FADER START | Speed error: The crossfader lever was moved too quickly.                                                            |
| CH-2 FADER START  | End error: The crossfader lever was not moved to its rightmost position.                                            |
| C.F.2 FADER START | Code error: The gray codes for the crossfader could not be read.                                                    |

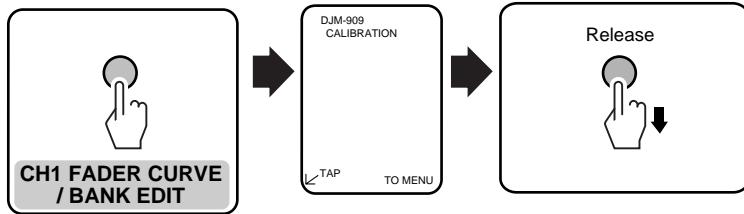
If an error is generated, repeat from Step ① of "How to set up."

- When the initial setting for the noncontact fader is completed, press the CH2 FADER CURVE/ BANK EDIT button to return to the menu of Setup mode. You can proceed to Calibration mode for the touch panel.

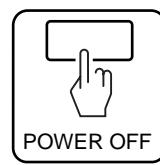
## 5. Calibration mode for the touch panel

To enter this mode, press the CH1 FADER CURVE/ BANK EDIT button during Setup mode. (For details on how to enter Setup mode, see "3. Setup mode.")

### Calibration Mode : ON



### Calibration Mode : CANCEL



- When Calibration mode for the touch panel is activated, "DJM-909 CALIBRATION" is displayed at the upper center of the LCD, and "TAP" and an arrow are displayed at the lower right.

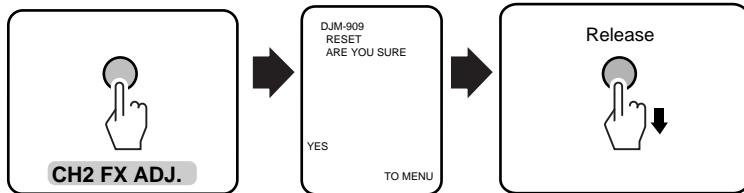
### How to set up

- Tap on the tip of the arrow at the lower left of the LCD with a pointed object.
- When "TAP" and an arrow are displayed at the upper right of the LCD, tap on the tip of the arrow with the pointed object.

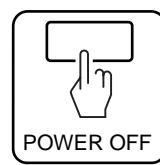
## 6. Factory-preset effect mode

To enter this mode, press the CH2 FX ADJ. button during Setup mode. (For details on how to enter Setup mode, see "3. Setup mode.")

### Efect Mode : ON



### Efect Mode : CANCEL



- When Factory-Preset Effect mode is activated, "DJM-909 RESET" is displayed at the upper center of the LCD, and "ARE YOU SURE" is displayed at the lower center.

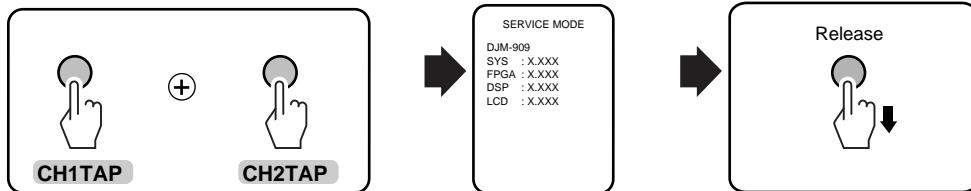
### How to reset to factory-preset values

- Press the CH1 FADER CURVE/ BANK EDIT button.

## 7. Version Check mode

- You can check the software version of each microcomputer.

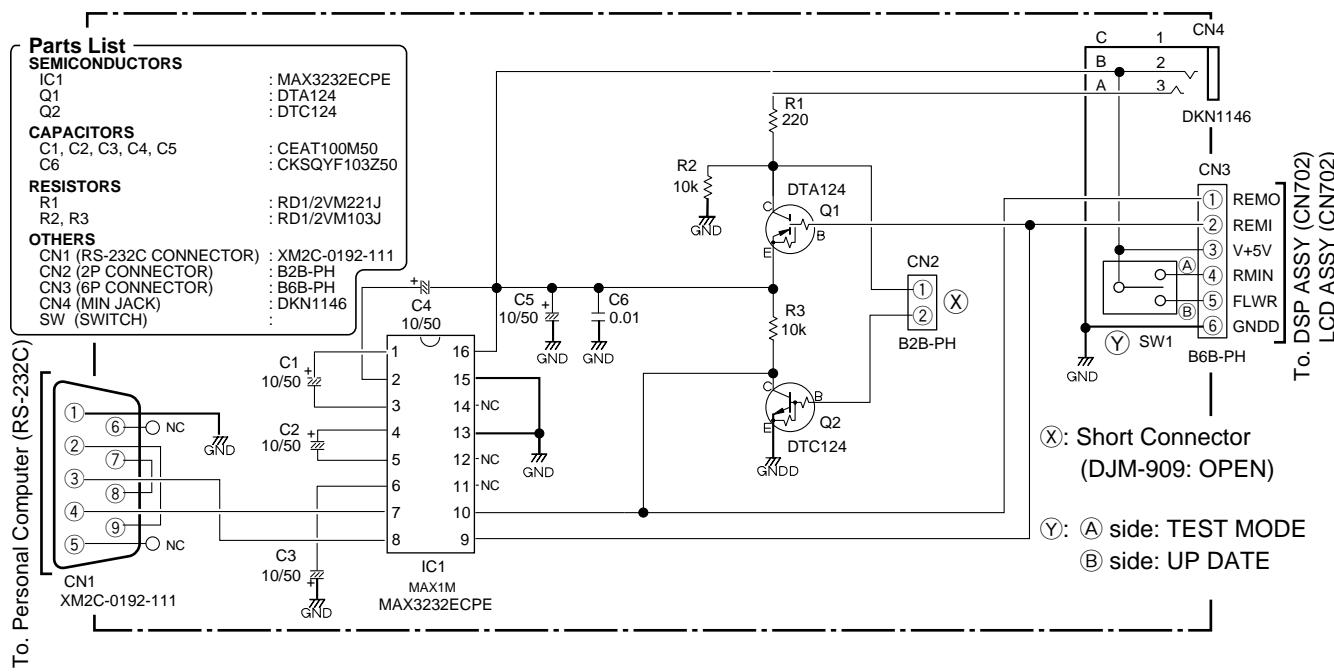
### Version Mode : ON



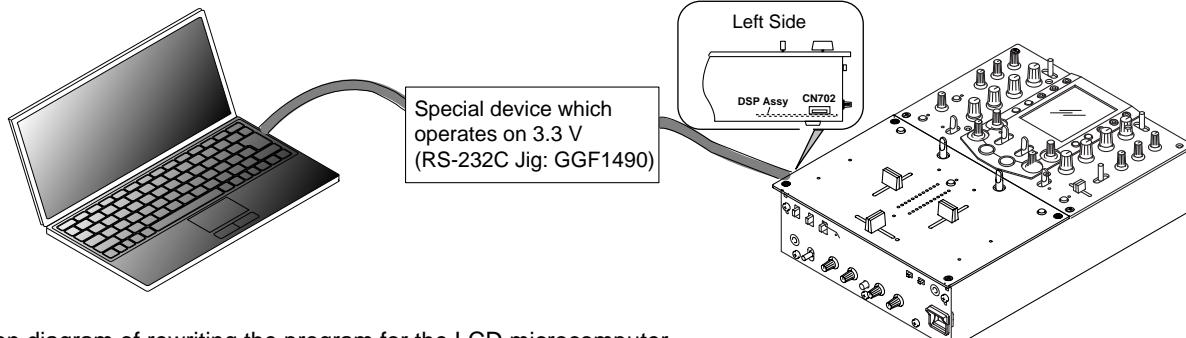
- In normal operation mode, press the CH1 TAP and CH2 TAP buttons simultaneously and hold them pressed for 10 seconds. The software version of each microcomputer is displayed on the LCD.
- To quit this mode, press any of the CH1 BANK1, CH1 BANK2, CH1 BANK3, CH2 BANK1, CH2 BANK2, CH2 BANK3, CH1 FX ADJ., CH1 FADER CURVE/ BANK EDIT, CH2 FX ADJ., or CH2 FADER CURVE/ BANK EDIT buttons.

## 7.1.2 Rewriting of the Software

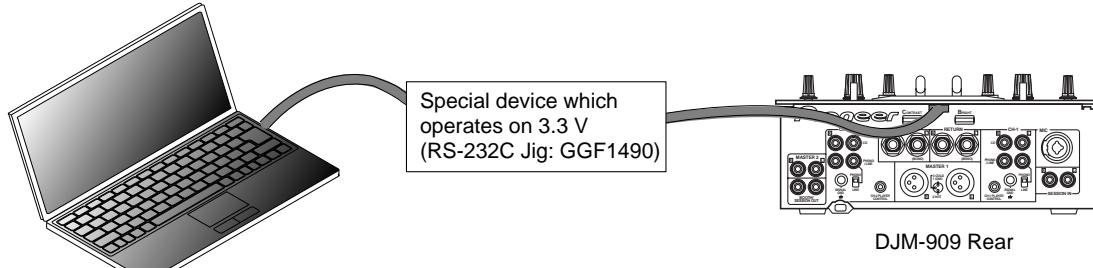
### A [RS-232C Jig Schematic Diagram] : (Jig No. GGF1490)



- Connection diagram of rewriting the program for the system control microcomputer



- Connection diagram of rewriting the program for the LCD microcomputer



## <How to rewrite software for the DJM-909>

The DJM-909 has five types of program and data blocks that can be rewritten from the outside.

### A. Connector of rewriting the program for the system control microcomputer (DSP Assy: CN702)

- ① Program for the system control microcomputer: mixer\_sys\_xxxx.mot (or PD3451x8.mot)

### B. Connector of rewriting the program for the LCD control microcomputer (LCD Assy: CN1001)

- ② Program for the LCD microcomputer: LCD\_Verxxxx.mot (or PD3452x8.mot)
- ③ Effect program: f\_upxxx\_00.mot
- ④ Display data 1: f\_upxxx\_01.mot
- ⑤ Display data 2: f\_upxxx\_02.mot

Among the above-mentioned program or data blocks, programs ① and ② can be directly rewritten using the above-mentioned connectors, but the program or data blocks ③-⑤ cannot be directly rewritten, because connectors for direct rewriting are not provided. Therefore, to rewrite the program or data blocks ③-⑤, the program or data is (are) first copied to the LCD microcomputer with a program for executing rewriting, and after executing that program, rewriting will be executed. The program for performing this rewriting remains in the LCD microcomputer after the program or data blocks ③-⑤ has (have) been rewritten, and if you turn on the power in this condition, the program that performs the rewriting will run again.

**Therefore, it is necessary to rewrite the program of the LCD microcomputer ② after any of the program or data blocks ③-⑤ is (are) rewritten.**

#### Note:

If the unit is accidentally turned on without rewriting the program of the LCD microcomputer ② after any of the program or data blocks ③-⑤ was (were) rewritten, the LED of the main unit (see Fig. 1) will blink. Be sure to wait until the LED stops blinking and remains lit, then turn off the unit. If you turn off the unit while the LED is blinking, the unit will not operate properly.

- Effect program : BANK1 LED (Ⓐ)
- Display data 1 : BANK2 LED (Ⓑ)
- Display data 2 : BANK3 LED (Ⓒ)

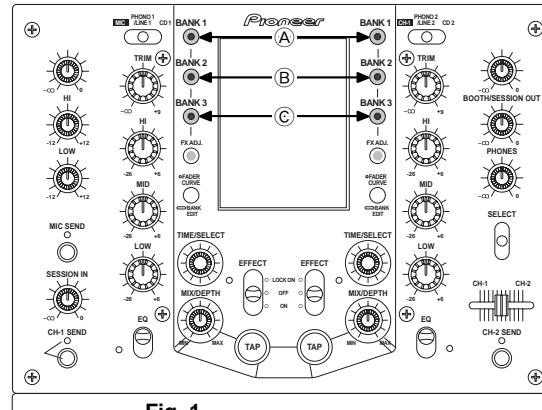


Fig. 1

#### • Time required for rewriting

1. Time required for transferring the rewriting control program: 5 sec
2. Time required for rewriting the program for the system control microcomputer: 2 min 30 sec
3. Time required for transferring the Effect program: 40 sec  
    Time required for rewriting the program: 15 sec
4. Time required for transferring Display data 1: 1 min 15 sec  
    Time required for rewriting the program: 15 sec
5. Time required for transferring Display data 2: 1 min  
    Time required for rewriting the program: 15 sec
6. Time required for rewriting the program for the LCD microcomputer: 1 min 25 sec

#### • Notes

- Use the special device for PC connection, which operates on 3.3 V (Jig No.GGF1490).
- Be sure to rewrite the program for the LCD microcomputer after rewriting the flash ROM. If the Effect program, Display data 1, and Display data 2 are to be rewritten along with the program for the LCD microcomputer, rewrite these first then rewrite the program for the LCD microcomputer.
- If the rewriting control program is not transferred when OK is clicked on while "Set to Boot mode and restart by resetting" is displayed in the rewriting procedure below, the following causes may be suspected:
  1. The special device is not securely connected.
  2. The special device does not operate on 3.3 V.
  3. The DJM-909 is not turned on.
- After rewriting the program for the system control microcomputer, make the initial setting for the noncontact fader (see "7.1.1 Service mode").
- After rewriting the program for the LCD control microcomputer, make the initial setting for the Calibration mode (touch panel) (see "7.1.1 Service mode").

## A 1. How to rewrite the program for the system control microcomputer

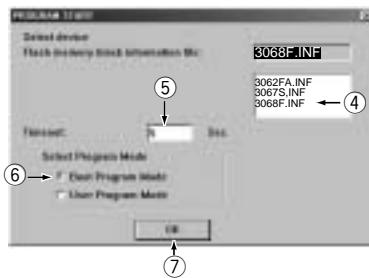
- ① With the DJM-909's power off, connect the DJM-909 and a PC via the special device, by connecting it to the connector for rewriting the program for the system control microcomputer.
- ② Turn on the DJM-909.
- ③ Start up [FLASH.exe.], the software for rewriting, on the PC.
- ④ Assign "3068F.INF" to "Device selection Flash memory block information file."

⑤ Assign 5 sec to "Timeout duration."

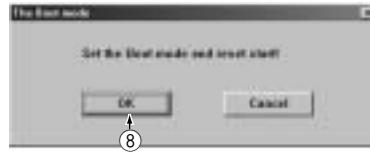
⑥ Assign "Boot mode" to "Mode selection."

⑦ Click on "Set".

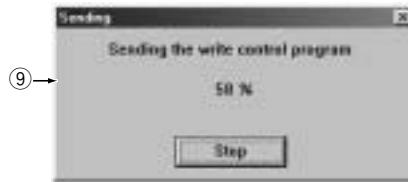
• Operating screen



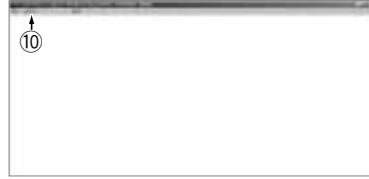
⑧ If "Set to Boot mode and restart by resetting" is displayed, click on "OK".



⑨ The rewriting control program is transferred in 5 seconds.



⑩ When program transfer is finished, the display in the window disappears.  
Select "WRITE" at the upper left of the menu bar.



⑪ After clicking on "Reference", select "mixer\_sys\_xxxx.mot" (or PD3453x8.mot) for "File name."

⑫ Assign "00000000" to "Start address."

⑬ Assign "0003FFFF" to "End address."

⑭ Assign "0" to "Offset."

⑮ Click on "OK".



E ⑯ The system control computer program is transferred in 2 min 30 sec.



⑰ When program transfer is finished, the display in the window disappears.  
Select File on the menu bar then Exit to exit the program.



⑱ Turn off the DJM-909.

⑲ Disconnect the special device from the DJM-909.

F • After rewriting the program for the system control microcomputer, make the initial setting for the noncontact fader (see "7.1.1 Service mode").

## 2. How to rewrite the Effect program (rewriting the program in the flash ROM)

① With the DJM-909's power off, connect the DJM-909 and a PC via the special device by connecting it to the connector for rewriting the program for the LCD microcomputer.

② Turn on the DJM-909.

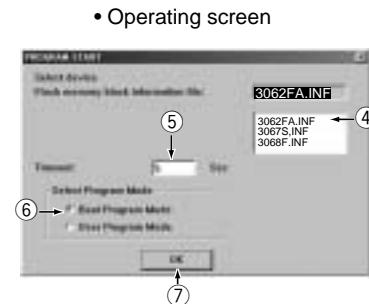
③ Start up [FLASH.exe.], the software for rewriting, on the PC.

④ Assign "3062FA.INF" to "Device selection Flash memory block information file."

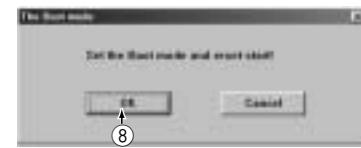
⑤ Assign 5 sec to "Timeout duration."

⑥ Assign "Boot mode" to "Mode selection."

⑦ Click on "Set".



⑧ If "Set to Boot mode and restart by resetting" is displayed, click on "OK".



⑨ The rewriting control program is transferred in 5 seconds.



⑩ When program transfer is finished, the display in the window disappears.

Select "WRITE" at the upper left of the menu bar.



⑪ After clicking on Reference, select "f\_upxxx\_00.mot" for "File name."

⑫ Assign "00000000" to "Start address."

⑬ Assign "0001FFFF" to "End address."

⑭ Assign "0" to "Offset."

⑮ Click on "OK".



⑯ The program is transferred in 40 sec.



⑰ When program transfer is finished, the display in the window disappears.

Select File on the menu bar then "Exit" to exit the program.



⑱ Turn off the DJM-909.

⑲ Disconnect the special device from the DJM-909.

⑳ Turn on the DJM-909.

㉑ Rewriting of the flash ROM by the LCD microcomputer starts and is completed in 15 seconds. Nothing is displayed on the LCD.

㉒ Rewriting is completed when the "BANK 1" LED lights up.

㉓ Turn off the DJM-909.

**Note:** Be sure to rewrite the program for the LCD microcomputer after rewriting the program in the flash ROM.

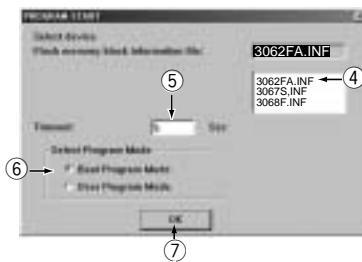
If rewriting of Display data 1 and Display data 2 are also required along with the Effect program, be sure to rewrite these first then rewrite the program for the LCD microcomputer.

### A 3. How to rewrite the Display data 1 (rewriting the data in the flash ROM)

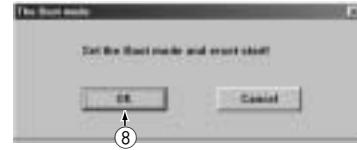
- ① With the DJM-909's power off, connect the DJM-909 and a PC via the special device, by connecting it to the connector for rewriting the program for the LCD microcomputer.
- ② Turn on the DJM-909.
- ③ Start up [FLASH.exe.], the software for rewriting, on the PC.
- ④ Assign "3062FA.INF" to "Device selection Flash memory block information file."

• Operating screen

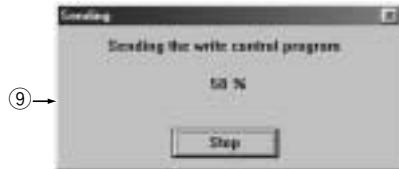
- ⑤ Assign 5 sec to "Timeout duration."
- ⑥ Assign "Boot mode" to "Mode selection."
- ⑦ Click on "Set".



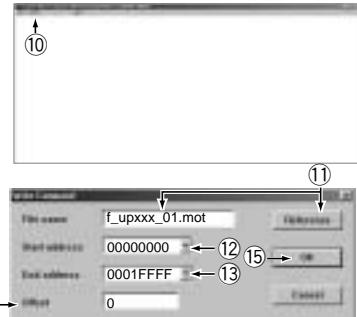
- ⑧ If "Set to Boot mode and restart by resetting" is displayed, click on "OK".



- C ⑨ The rewriting control program is transferred in 5 seconds.



- D ⑩ When program transfer is finished, the display in the window disappears.  
Select "WRITE" at the upper left of the menu bar.



- E ⑯ The program is transferred in 1 min 15 sec.



- E ⑰ When program transfer is finished, the display in the window disappears.  
Select File on the menu bar then Exit to exit the program.

- E ⑱ Turn off the DJM-909.
- E ⑲ Disconnect the special device from the DJM-909.
- E ⑳ Turn on the DJM-909.
- E ㉑ Rewriting of the data in the flash ROM by the LCD microcomputer starts and is completed in 15 seconds. Nothing is displayed on the LCD.
- E ㉒ Rewriting is completed when the "BANK 2" LED lights up.
- E ㉓ Turn off the DJM-909.



**Note:** Be sure to rewrite the program for the LCD microcomputer after rewriting the data in the flash ROM.

If rewriting of Effect program and Display data 2 are also required along with Display data 1, be sure to rewrite these first then rewrite the program for the LCD microcomputer.

#### 4. How to rewrite the Display data 2 (rewriting the data in the flash ROM)

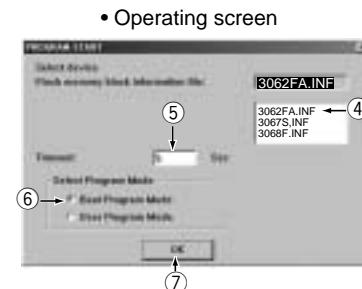
- ① With the DJM-909's power off, connect the DJM-909 and a PC via the special device, by connecting it to the connector for rewriting the program for the LCD microcomputer.
- ② Turn on the DJM-909.
- ③ Start up [FLASH.exe.], the software for rewriting, on the PC.

④ Assign "3062FA.INF" to "Device selection Flash memory block information file."

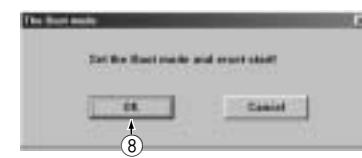
⑤ Assign 5 sec to "Timeout duration."

⑥ Assign "Boot mode" to "Mode selection."

⑦ Click on "Set".



⑧ If "Set to Boot mode and restart by resetting" is displayed, click on "OK".



⑨ The rewriting control program is transferred in 5 seconds.



⑩ When program transfer is finished, the display in the window disappears.

Select "WRITE" at the upper left of the menu bar.



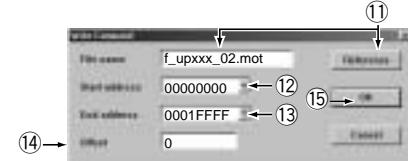
⑪ After clicking on Reference, select "f\_upxxx\_02.mot" for "Filename".

⑫ Assign "00000000" to "Start address."

⑬ Assign "0001FFFF" to "End address."

⑭ Assign "0" to "Offset."

⑮ Click on "OK".



⑯ The program is transferred in 1 min.



⑰ When program transfer is finished, the display in the window disappears.

Select File on the menu bar then Exit to exit the program.

⑱ Turn off the DJM-909.

⑲ Disconnect the special device from the DJM-909.

⑳ Turn on the DJM-909.

㉑ Rewriting of the data in the flash ROM by the LCD microcomputer starts and is completed in 15 seconds. Nothing is displayed on the LCD.

㉒ Rewriting is completed when the "BANK 3" LED lights up.

㉓ Turn off the DJM-909.



**Note:** Be sure to rewrite the program for the LCD microcomputer after rewriting the data in the flash ROM.

If rewriting of Effect program and Display data 1 are also required along with Display data 2, be sure to rewrite these first then rewrite the program for the LCD microcomputer.

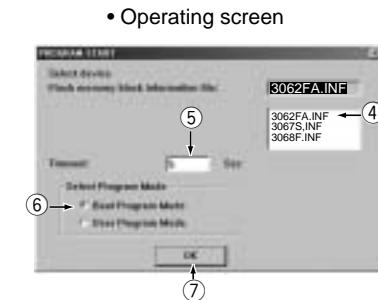
## A 5. How to rewrite the program for the LCD microcomputer

- ① With the DJM-909's power off, connect the DJM-909 and a PC via the special device, by connecting it to the connector for rewriting the program for the LCD microcomputer.
- ② Turn on the DJM-909.
- ③ Start up [FLASH.exe.], the software for rewriting, on the PC.

④ Assign "3062FA.INF" to "Device selection Flash memory block information file."

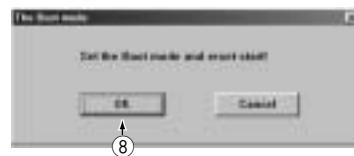
⑤ Assign 5 sec to "Timeout duration."

⑥ Assign "Boot mode" to "Mode selection."



B ⑦ Click on "Set".

⑧ If "Set to Boot mode and restart by resetting" is displayed, click on "OK".



C ⑨ The rewriting control program is transferred in 5 seconds.



D ⑩ When program transfer is finished, the display in the window disappears.

Select "WRITE" at the upper left of the menu bar.



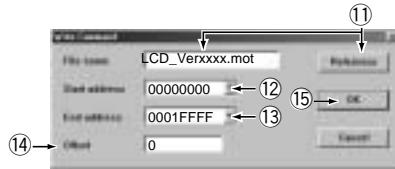
E ⑪ After clicking on Reference, select "LCD\_Verxxxx.mot" (or "PD3452x8.mot") for "Filename".

⑫ Assign "00000000" to "Start address."

⑬ Assign "0001FFFF" to "End address."

⑭ Assign "0" to "Offset."

⑮ Click on "OK".



F ⑯ The program is transferred in 1 min 25 sec.



G ⑰ When program transfer is finished, the display in the window disappears.

Select File on the menu bar then Exit to exit the program.

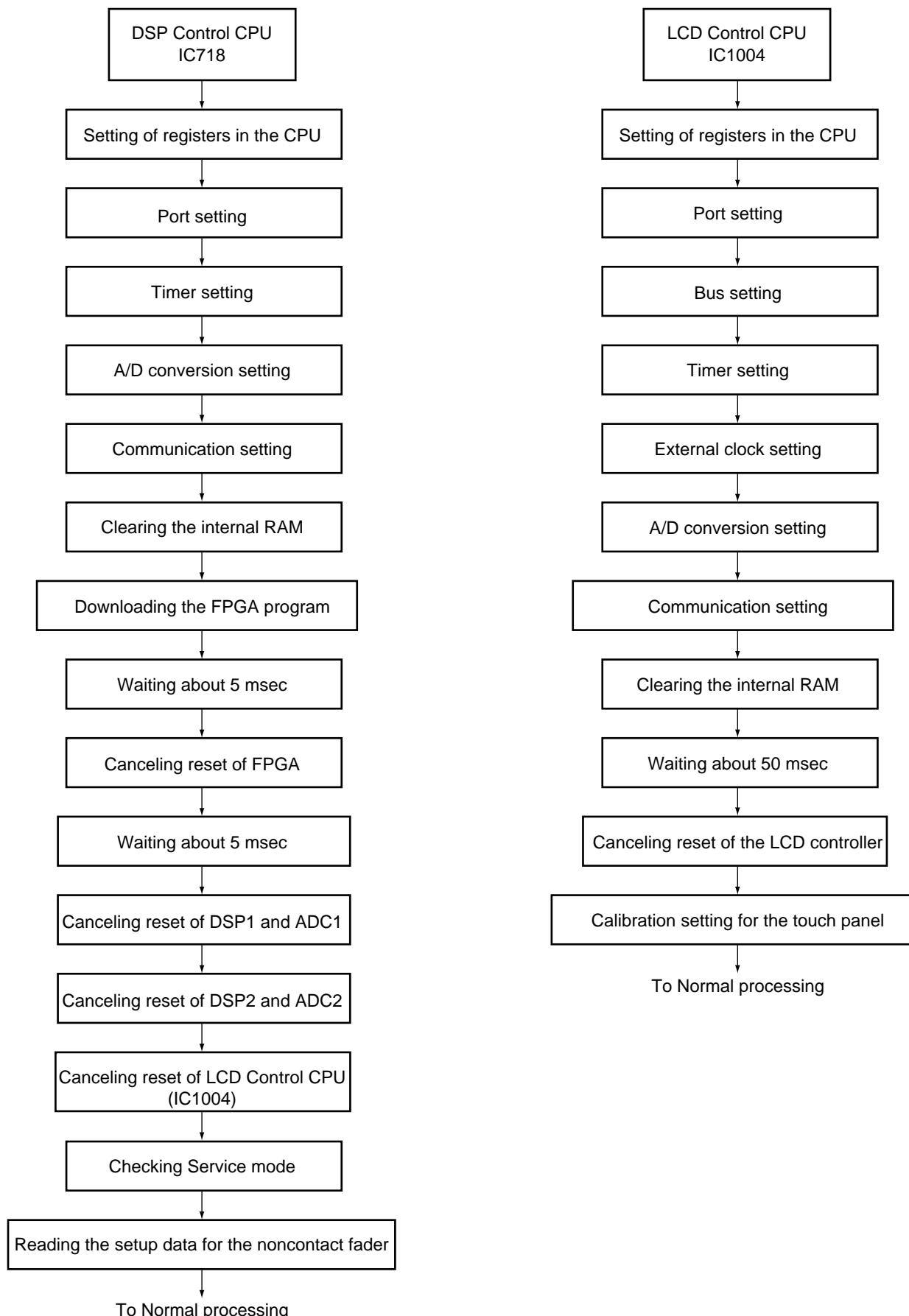


H ⑱ Turn off the DJM-909.

⑲ Disconnect the special device from the DJM-909.

I • After rewriting the program for the LCD control microcomputer, make the initial setting for the Calibration mode (touch panel) (see "7.1.1 Service mode").

### 7.1.3 POWER ON SEQUENCE



## 7.1.4 Table of the roles of the microcomputers

| CPU                             | Operation Panel part   | Operation position                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD CONTROL CPU<br>(IC1004)     | Effect Operation Panel | Touch Panel<br>CH1 BANK 1 - 3<br>CH2 BANK 1 - 3<br>CH1 FX ADJ.<br>CH2 FX ADJ.<br>FADER CURVE<br>CH1 FADER CURVE/ BANK EDIT<br>CH2 FADER CURVE/ BANK EDIT<br>CH1 TIME/ SELECT<br>CH2 TIME/ SELECT<br>CH1 MIX/ DEPTH<br>CH2 MIX/ DEPTH<br>CH1 EFFECT ON/OFF<br>CH2 EFFECT ON/OFF<br>CH1 TAP<br>CH2 TAP<br>Touch Panel Backlight Control |
|                                 | Rear Panel             |                                                                                                                                                                                                                                                                                                                                       |
| DSP CONTROL CPU<br>(IC718)      | Operation Panel        | CH1 Fader Start ON/OFF<br>CH2 Fader Start ON/OFF<br>CH Transformer<br>CH Transformer<br>CH1 CH Fader<br>CH2 CH Fader<br>Cross Fader<br>Monitor Select Switch                                                                                                                                                                          |
|                                 | Front Panel            | CH1 Fader Reverse<br>CH2 Fader Reverse<br>Cross Fader Reverse<br>Foot Switch Channel Select Switch<br>CH1 Fader Curve<br>CH2 Fader Curve<br>Cross Fader 1Curve<br>Cross Fader 2Curve<br>Fader Cut Lag VR<br>CH1 Fader Start Selector Switch<br>CH2 Fader Start Selector Switch<br>Foot SW Jack Insertion Detection                    |
| Except microcomputer operation  | Operation Panel        | CH1 Input Selector Switch<br>CH2 Input Selector Switch<br>MIC SEND ON/OFF<br>CH1 SEND ON/OFF<br>CH2 SEND ON/OFF<br>CH1 EQ ON/OFF<br>CH2 EQ ON/OFF<br>Level Meter Change                                                                                                                                                               |
|                                 | Rear Panel             | Cross Fader Feeling ADJ.<br>LCD Contrast ADJ.<br>CH1 LINE/PHONO Select Switch<br>CH2 LINE/PHONO Select Switch<br>Return Jack Insertion Detection<br>Send Jack Insertion Detection                                                                                                                                                     |
| Audio-signal operation sections |                        | CH1 TRIM<br>CH2 TRIM<br>CH1 EQ (Hi, Mid , Lo)<br>CH2 EQ (Hi, Mid , Lo)<br>MIC VR<br>MIC EQ (Hi, Lo)<br>SESSION VR<br>Master VR<br>BOOTH /SESSION VR<br>Phones VR<br>Monitor Balance                                                                                                                                                   |

| CPU                                   | Dispaly Panel          | Dispaly Control Panel                                                                                      |
|---------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------|
| LCD CONTROL CPU<br>(IC1004)           | Effect Operation Panel | LCD Dispaly<br>LCD LED Lighting                                                                            |
| DSP CONTROL CPU<br>(IC718)            |                        | VCA Voice Level Control<br>Mute Control<br>Fader Start Signal<br>Analog Switch Control<br>Lighting All LED |
| Except LED microcomputer<br>operation | Operation Panel        | MIC SEND<br>CH1 SEND<br>CH2 SEND<br>CH1 EQ ON<br>CH2 EQ ON<br>CH1 TAP<br>CH2 TAP<br>Level Meter Change     |

A

B

C

D

E

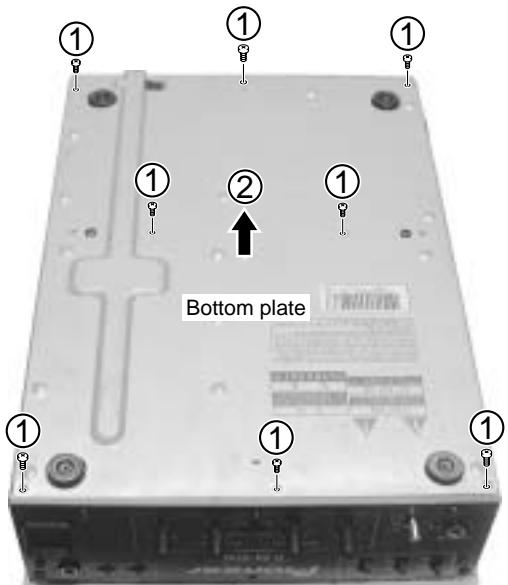
F

## 7.1.5 DISASSEMBLY

### A Diagnosis of MAIN Assy

To diagnose the MAIN Assy, remove the bottom plate, as shown below:

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



• Bottom view

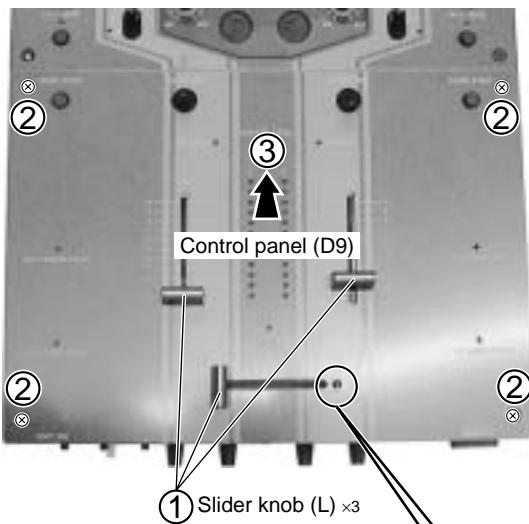


MAIN Assy

**Diagnosis**

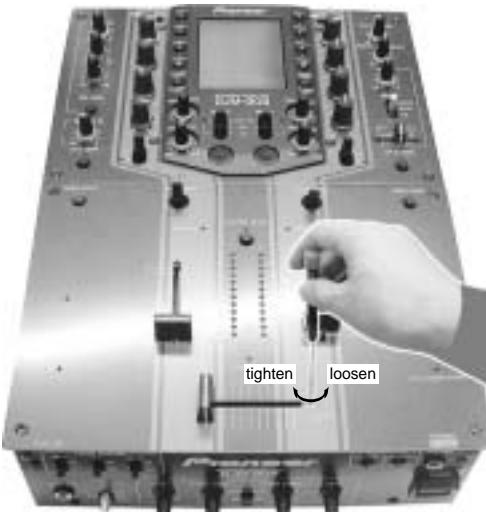
### B Diagnosis of Fader Section

- ① Remove the three slider knob (L)s.
- ② Remove the four screws.
- ③ Remove the control panel (D9).



#### C • About the load-adjuster screw (FEELING ADJ.) for the slider

Loading (smoothness) of the slider can be adjusted according to the user's preference.  
For adjustment, use the supplied hexagonal driver.

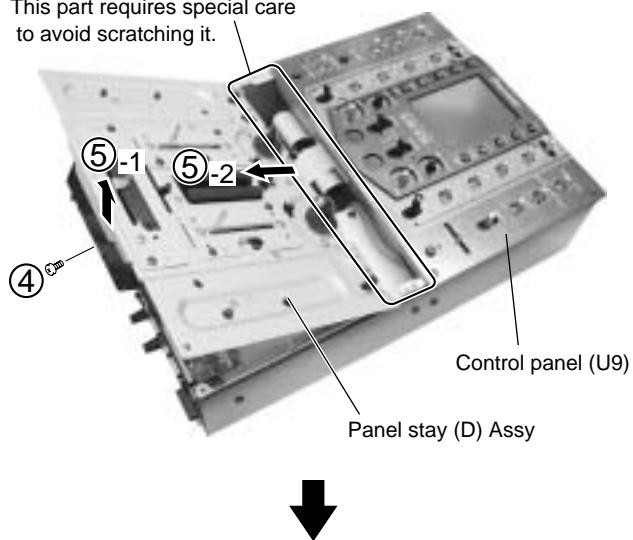


(4) Remove the one screw.

(5) Remove the panel stay (D) assy.

**Note:** As the control panel (U9) may easily get scratched, pull out or push in the panel stay (D) assy, slightly tilting it during disassembly or reassembly.

This part requires special care to avoid scratching it.



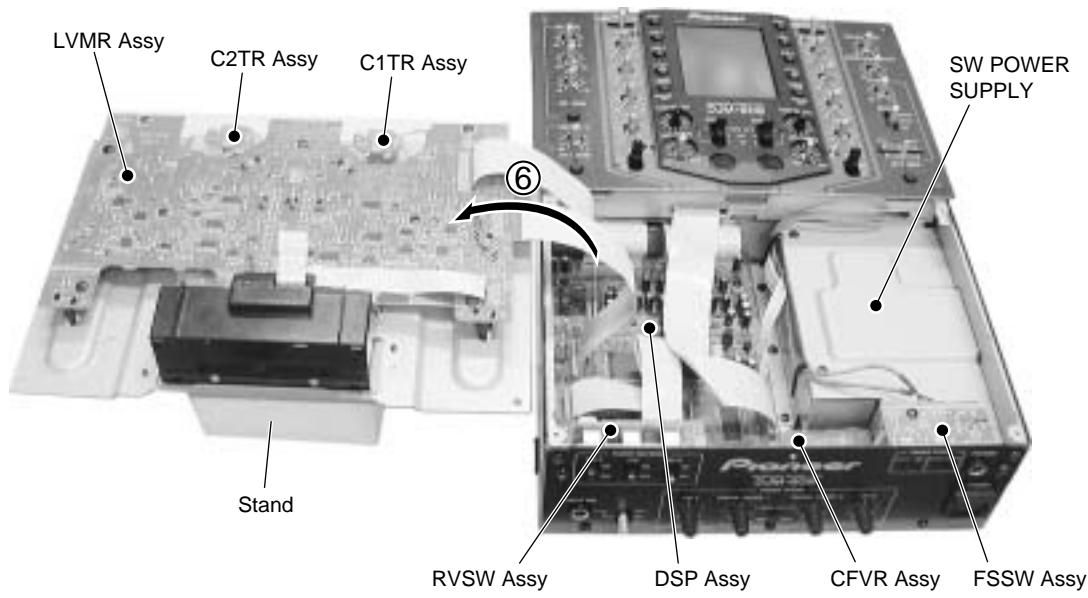
#### Note for removing the Front Panel block

When removing the Front Panel block from the unit, remove the screws indicated by the arrows (↓).



(6) Arrange the unit as shown in the photo below.

**Note:** As the flexible cables are short, provide a stand with a height similar to the unit's below the plate, to make your work easier.



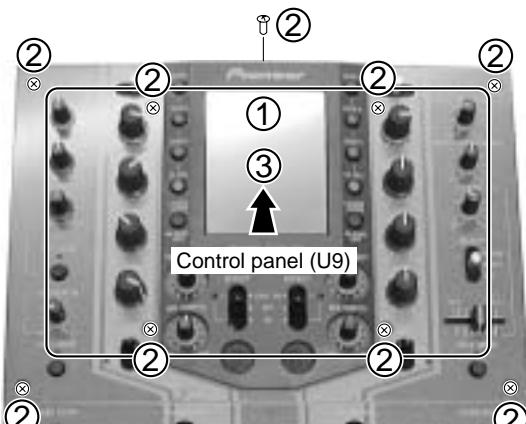
**Diagnosis**

## 2 Diagnosis of LCD, EQ and SEND Section

① Remove all volume knobs.

② Remove the nine screws.

③ Remove the control panel (U9).

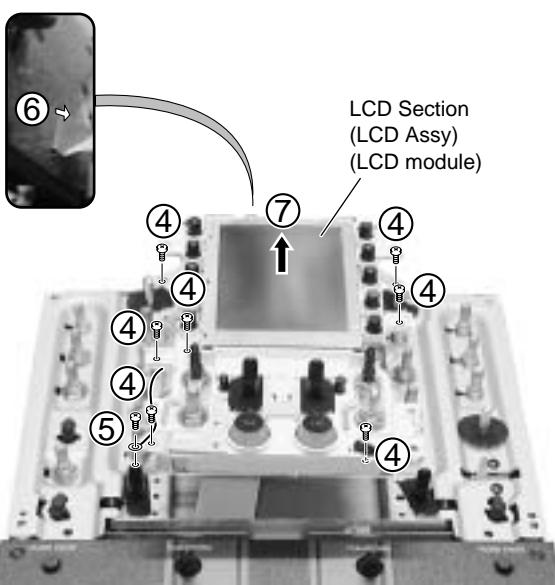


④ Remove the seven screws.

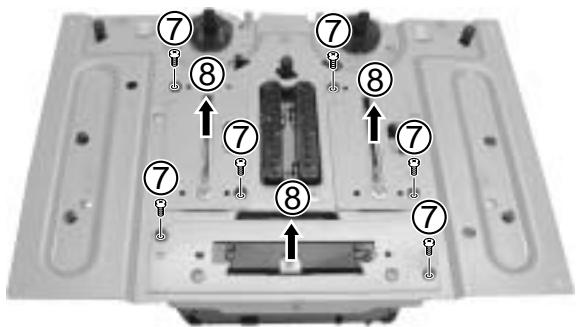
⑤ Remove the earth lead by removing the one screw.

⑥ Remove the Flexible Cable

⑦ Remove the LCD Section.



- A  
⑦ Remove the six screws.  
⑧ Remove the three volumes.

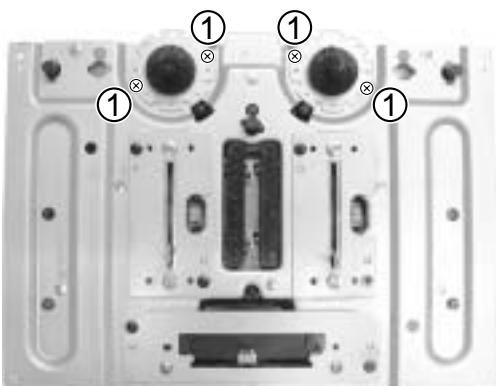


**Exchange**

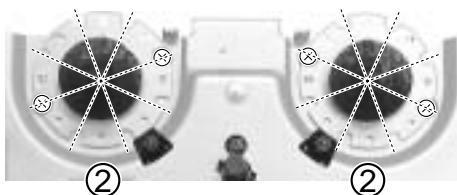
### ● About the TRANSFORM ON/OFF lever

The pivot direction of the TRANSFORM ON/OFF lever can be changed by 45°, according to the user's preference.

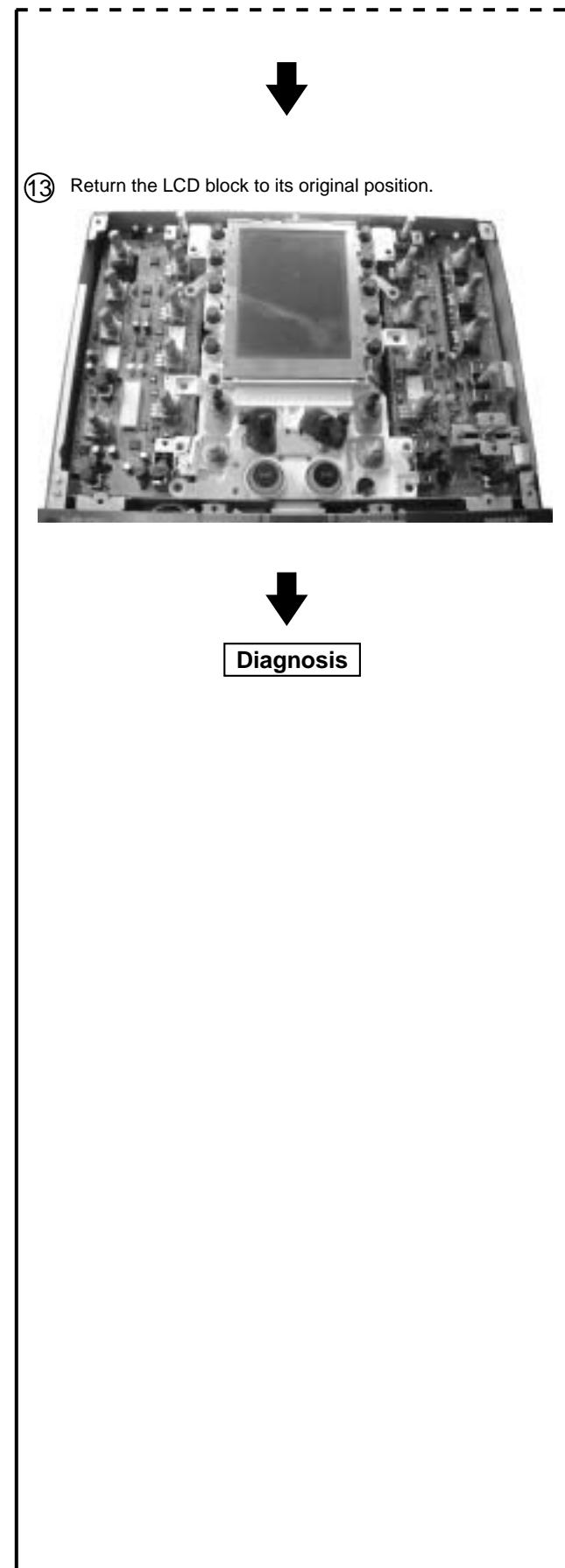
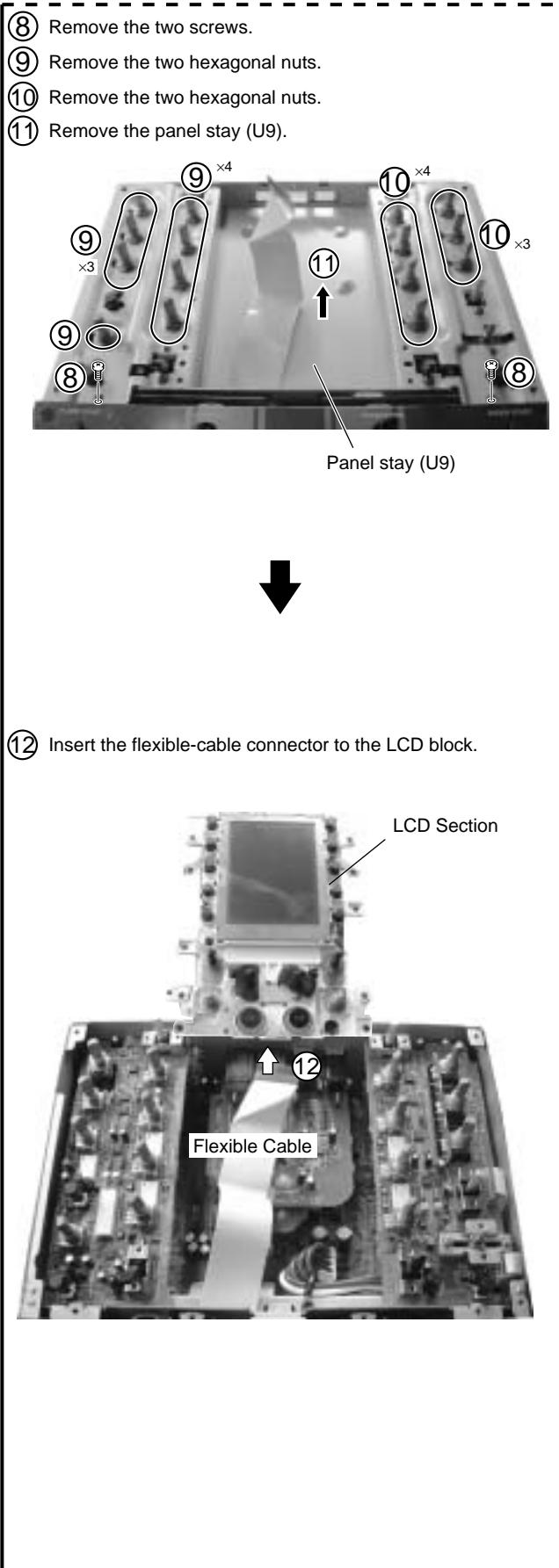
- D  
① Remove the four screws.



- E  
② Turn a direction.

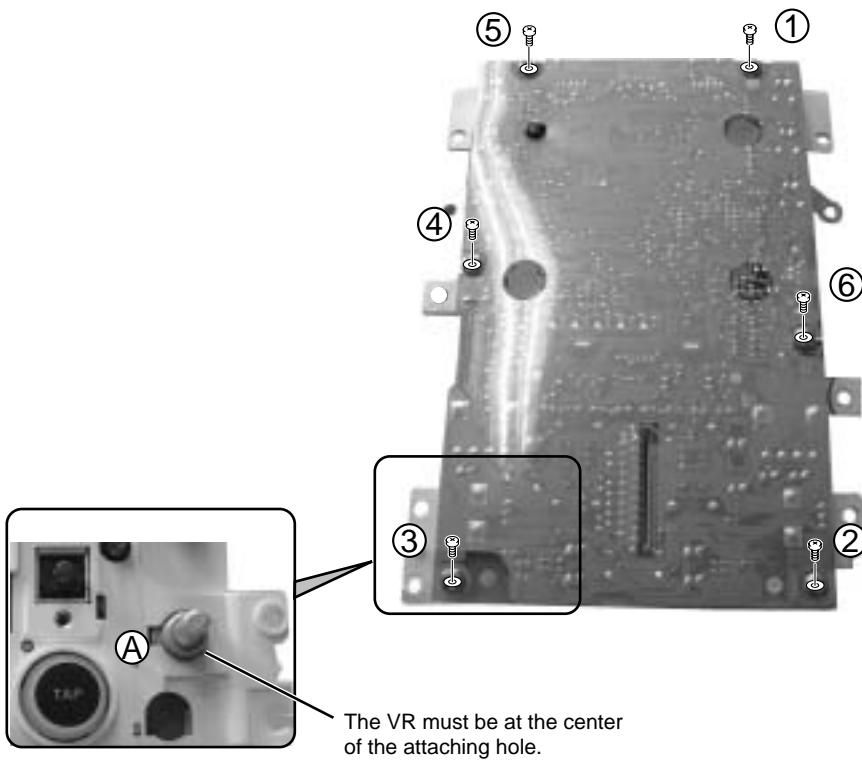


- F  
③ Reattach the four screws.



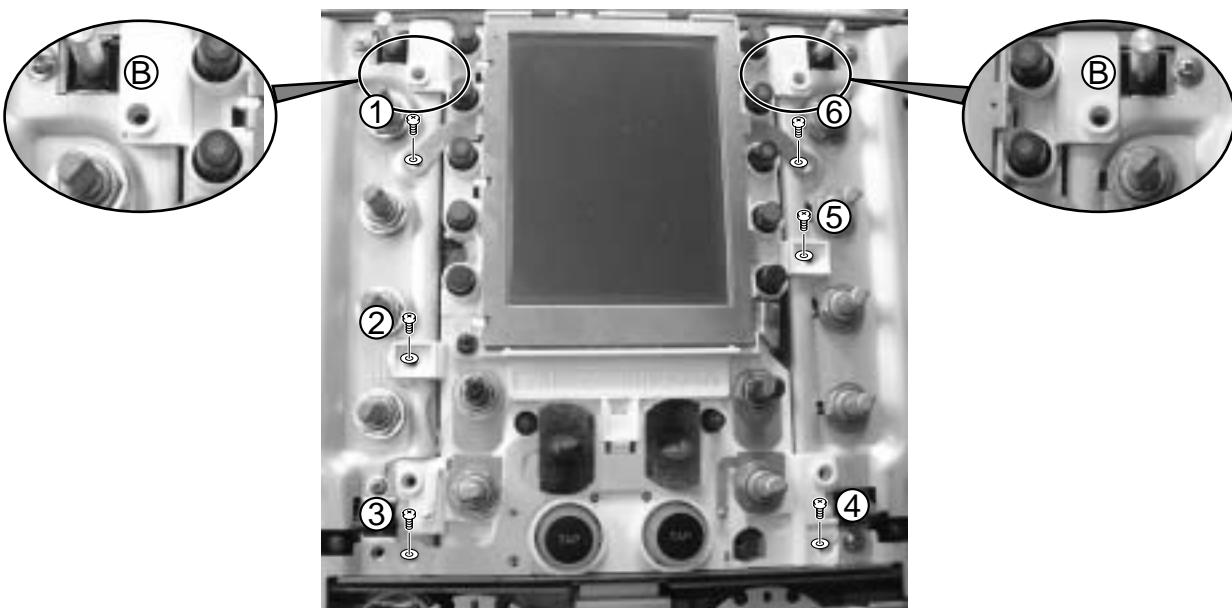
### 3 Note for attaching the LCD Assy

A When tightening the six screws ① - ⑥, make sure that the VR A is at the center of the attaching hole.



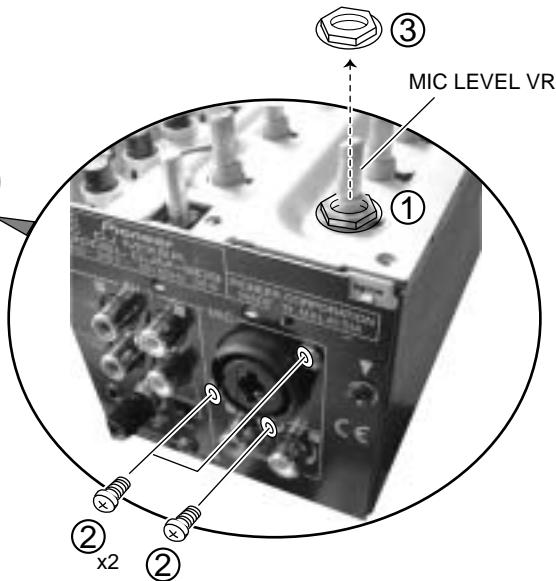
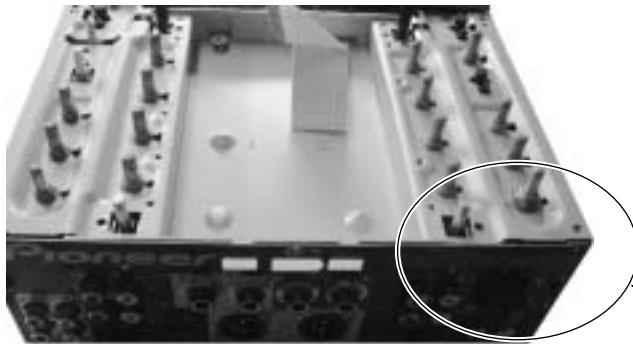
### 4 Note for attaching the LCD Assy to the panel stay

D When tightening the six screws ① - ⑥, make sure that the positions of the two holes B of the LCD Assy will not be shifted from the holes on the panel stay.

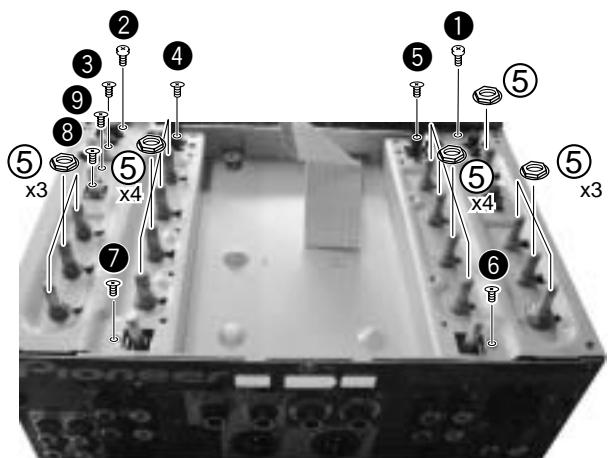


## 5 Note for attaching the MIC LEVEL VR

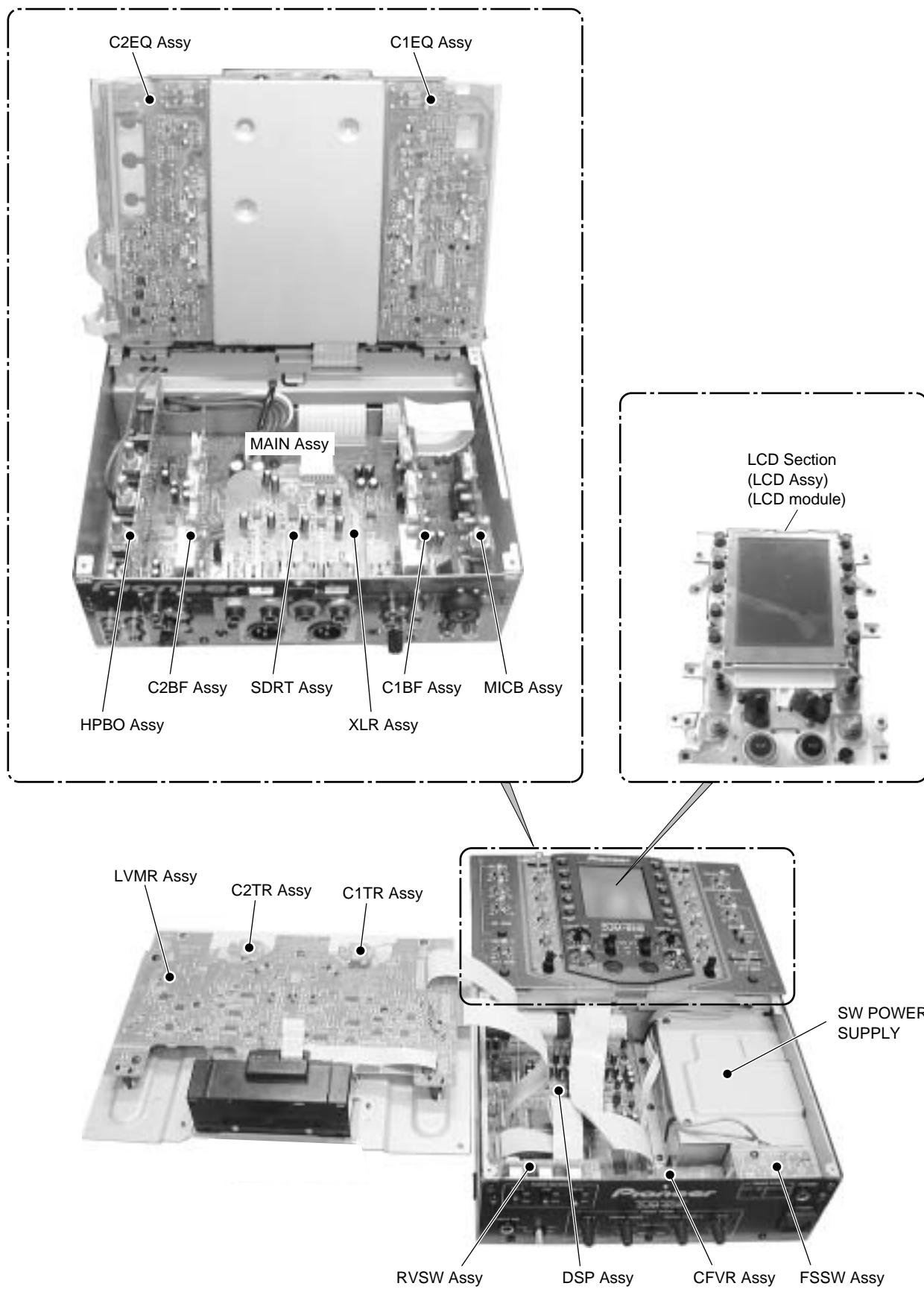
- ① Tighten only the nut for the MIC LEVEL VR, and leave the other nuts untightened at this point.



- ② Tighten the three screws of the MIC JACK block.  
 ③ Remove the hexagonal nut.  
 ④ Tighten the screws ① to ⑨, in that order.  
 ⑤ Tighten the 15 hexagonal nuts..



## 7.1.6 CONFIGURATION OF THE PC BOARD



## 7.2 PARTS

### 7.2.1 IC INFORMATION

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

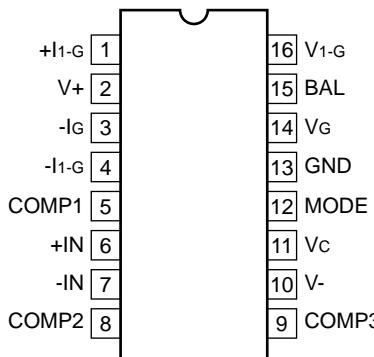
- **List of IC**

SSM2018TP, PD3451B8, PD3452B8

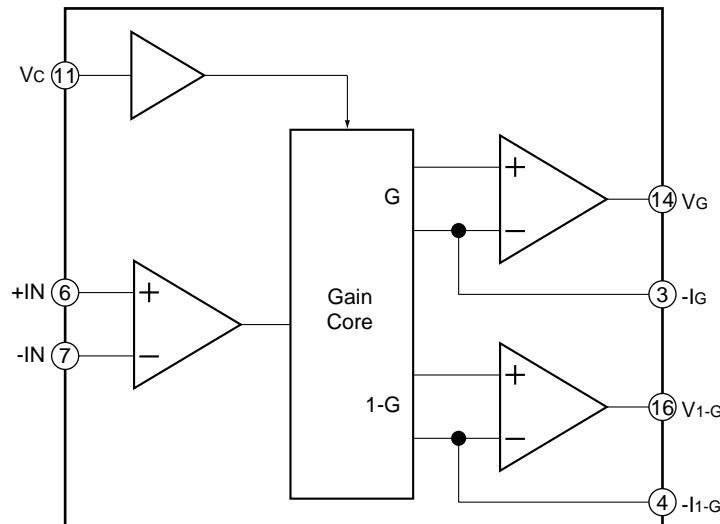
### ■ SSM2018TP (MAIN ASSY : IC114-IC117)

- Voltage Controlled Amplifiers

- **Pin Arrangement (Top view)**



- **Block Diagram**



## ■ PD3451B8 (DSP ASSY : IC718)

- Main CPU

### ● Pin Function

| No. | Mark               | Name           | I/O | Function                                              |
|-----|--------------------|----------------|-----|-------------------------------------------------------|
| 1   | Vcl                | Vcl            | O   | Connect a external capacitor between this pin and GND |
| 2   | PB0/TP8/TMO0/XCS7  |                | I   |                                                       |
| 3   | PB1/TP9/TMO1/XCS6  |                | I   |                                                       |
| 4   | PB2/TP10/TMO2/XCS5 | CH1_FD_R_LED   | O   | Fader reverse LED of CH 1                             |
| 5   | PB3/TP11/TMO3/XCS4 | CH2_FD_R_LED   | O   | Fader reverse LED of CH 2                             |
| 6   | PB4/TP12           |                | I   |                                                       |
| 7   | PB5/TP13           |                | I   |                                                       |
| 8   | PB6/TP14           | CH1_FD_ST_SW   | I   | Fader start switch of CH 1                            |
| 9   | PB7/TP15           | CH2_FD_ST_LED  | O   | Fader start LED of CH 2                               |
| 10  | FEW                | FLWR           | I   | Wrting enable signal                                  |
| 11  | Vss                | Vss            | I   | GND                                                   |
| 12  | P90/TXD0           | S2DO           | I   | TXD for FPGA                                          |
| 13  | P91/TXD1           | S1DO           | I   | TXD for CPU                                           |
| 14  | P92/RXD0           | S2DI           | O   | RXD for FPGA                                          |
| 15  | P93/RXD1           | S1DI           | O   | RXD for CPU                                           |
| 16  | P94/SCK0/XIRQ4     | S2CLK          | O   | CLK for FPGA                                          |
| 17  | P95/SCK1/XIRQ5     | S1CLK          | I   | CLK for CPU                                           |
| 18  | P40/D0             | F_WE           | O   | Write permission to the flash                         |
| 19  | P41/D1             | CRS_FDB_ST_LED | O   | Fader start LED of cross fader side B                 |
| 20  | P42/D2             | H8_RST         | O   | Reset signal to the upper microcomputer               |
| 21  | P43/D3             | CRS_FD_R_LED   | O   | Cross fader reverse LED                               |
| 22  | Vss                | Vss            | I   | GND                                                   |
| 23  | P44/D4             | CH2_TRS_SW     | I   | Transform switch of CH 2                              |
| 24  | P45/D5             | CH1_TRS_SW     | I   | Transform switch of CH 1                              |
| 25  | P46/D6             |                | I   |                                                       |
| 26  | P47/D7             | CH1_FD_ST_LED  | O   | Fader start LED of CH 1                               |
| 27  | P30/D8             | CRS_FDA_ST_LED | O   | Fader start LED of cross fader side A                 |
| 28  | P31/D9             | FT_SW_CONT     | I   | Foot switch CONT                                      |
| 29  | P32/D10            | FT_SW_CH2      | I   | Foot switch CH 2                                      |
| 30  | P33/D11            | EF2_ON         | O   | DSP output ON for CH 2                                |
| 31  | P34/D12            | EF1_ON         | O   | DSP output ON for CH 1                                |
| 32  | P35/D13            | FT_SW_CH1      | I   | Foot switch CH 1                                      |
| 33  | P36/D14            | CRS_FD_R_SW    | I   | Cross fader reverse switch                            |
| 34  | P37/D15            | CH2_FD_R_SW    | I   | Fader reverse switch of CH 2                          |
| 35  | Vcc                | Vcc            | I   | Power supply                                          |
| 36  | P10/A0             | CH2_FD_SEL_SW  | I   | Fader select switch of CH 2                           |
| 37  | P11/A1             | CH1_FD_R_SW    | I   | Fader reverse switch of CH 1                          |
| 38  | P12/A2             | CH1_FD_SEL_SW  | I   | Fader select switch of CH 1                           |
| 39  | P13/A3             |                | I   |                                                       |
| 40  | P14/A4             | MON_SW2        | I   |                                                       |
| 41  | P15/A5             | MON_SW1        | I   |                                                       |
| 42  | P16/A6             | MON_SEL2       | I   |                                                       |
| 43  | P17/A7             | MON_SEL1       | I   |                                                       |
| 44  | Vss                | Vss            | I   | GND                                                   |
| 45  | P20/A8             | HP_MUTE        | O   | Headphone MUTE                                        |
| 46  | P21/A9             | MUTE           | O   | Master MUTE                                           |
| 47  | P22/A10            | XPROGRAM       |     |                                                       |
| 48  | P23/A11            | FPGARST        |     |                                                       |

| No. | Mark                  | Name         | I/O | Function                                                   |
|-----|-----------------------|--------------|-----|------------------------------------------------------------|
| 49  | P24/A12               | XSSFPGA      |     |                                                            |
| 50  | P25/A13               | DSP2DSP1     | I   |                                                            |
| 51  | P26/A14               | DTOL         | O   | Serial communication from DSP board UCOM to LCD board UCOM |
| 52  | P27/A15               | LTOD         | I   | Serial communication from LCD board UCOM to DSP board UCOM |
| 53  | P50/A16               |              | I   |                                                            |
| 54  | P51/A17               |              | I   |                                                            |
| 55  | P52/A18               | ICCK         | O   |                                                            |
| 56  | P53/A19               | ICDT         | I/O |                                                            |
| 57  | Vss                   | Vss          | I   | GND                                                        |
| 58  | P60/XWAIT             |              | I   |                                                            |
| 59  | P61/XBREQ             |              | I   |                                                            |
| 60  | P62/XBACK             |              | I   |                                                            |
| 61  | P67/φ                 |              | I   |                                                            |
| 62  | XSTBY                 | XSTBY        | I   | Standby Low: Standby mode                                  |
| 63  | XRES                  | XRESET       | I   | Reset input Low: Reset                                     |
| 64  | NMI                   | NMI          | I   | Non maskable interruption request Active Low               |
| 65  | Vss                   | Vss          | I   | GND                                                        |
| 66  | EXTAL                 | EXTAL        | I   | Connect a crystal resonator                                |
| 67  | XTAL                  | XTAL         | I   | Connect a crystal resonator                                |
| 68  | Vcc                   | Vcc          | I   | Power supply                                               |
| 69  | P63/XAS               | CH2_STOP     | O   | CH 2 stop signal of fader start                            |
| 70  | P64/XRD               | CH2_STAT     | O   | CH 2 start signal of fader start                           |
| 71  | P65/XHWR              | CH1_STOP     | O   | CH 1 stop signal of fader start                            |
| 72  | P66/XLWR              | CH1_STAT     | O   | CH 1 start signal of fader start                           |
| 73  | MD0                   | MD0          | I   | Operation mode control pin                                 |
| 74  | MD1                   | MD1          | I   | MD2 : HIGH MD1 : HIGH MD0 : HIGH mode 7                    |
| 75  | MD2                   | MD2          | I   | Built-in ROM and RAM are valid.                            |
| 76  | AVcc                  | AVcc         | I   | Power supply for A/D converter                             |
| 77  | VREF                  | VREF         | I   | Reference voltage input for A/D converter                  |
| 78  | P70/AN0               | CH2_FD_VR    | I   | Fader volume of CH 2                                       |
| 79  | P71/AN1               | CH1_FD_VR    | I   | Fader volume of CH 1                                       |
| 80  | P72/AN2               | FT_VR        | I   | Foot switch volume                                         |
| 81  | P73/AN3               | CRS_FDB_CV   | I   | Curve volume of cross fader side B                         |
| 82  | P74/AN4               | CRS_FDA_CV   | I   | Curve volume of cross fader side A                         |
| 83  | P75/AN5               | CH2_FD_CV    | I   | Fader curve volume of CH 2                                 |
| 84  | P76/AN6/DA0           | CH1_FD_CV    | I   | Fader curve volume of CH 1                                 |
| 85  | P77/AN7/DA1           | CRS_FD_RRV   | I   | Cross fader response lag volume                            |
| 86  | AVss                  | Avss         | I   | Ground for A/D converter                                   |
| 87  | P80/XIRQ0             |              | I   |                                                            |
| 88  | P81/XIRQ1/XCS3        | XSSDAC       |     |                                                            |
| 89  | P82/XIRQ2/XCS2        |              | I   |                                                            |
| 90  | P83/XIRQ3/XCS1/XADTRG | DGP2DSP2     | I   |                                                            |
| 91  | P84/XCS0              |              | I   |                                                            |
| 92  | Vss                   |              | I   | GND                                                        |
| 93  | PA0/TP0/TCLKA         | RESETDSP2    |     |                                                            |
| 94  | PA1/TP1/TCLKB         | RESETDSP1    |     |                                                            |
| 95  | PA2/TP2/TIOCA0/TCLKC  | VCA1_CONT    | O   |                                                            |
| 96  | PA3/TP3/TIOCB0/TCLKD  |              |     |                                                            |
| 97  | PA4/TP4/TIOCA1        | VCA2_CNT     | O   |                                                            |
| 98  | PA5/TP5/TIOCB1        |              |     |                                                            |
| 99  | PA6/TP6/TIOCA2        | DONE         |     |                                                            |
| 100 | PA7/TP7/TIOCB2        | CH2_FD_ST_SW | I   | Fader start switch of CH 2                                 |

## ■ PD3452B8 (LCD ASSY : IC1004)

- LCD Control CPU

### ● Pin Function

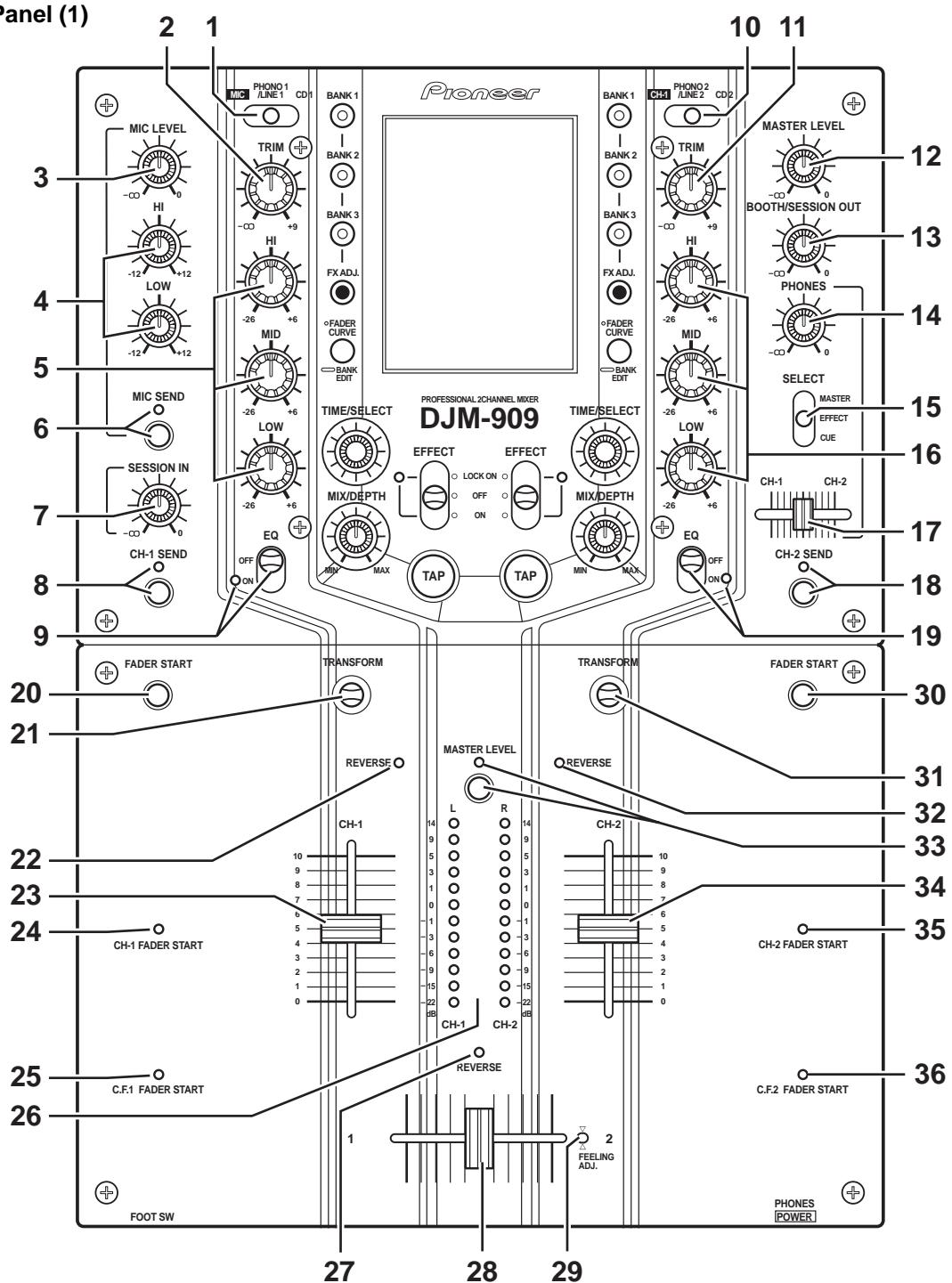
| No. | Mark               | Name     | I/O | Function                                                   |
|-----|--------------------|----------|-----|------------------------------------------------------------|
| 1   | Vcl                | Vcl      | O   | Connect a external capacitor between this pin and GND      |
| 2   | PB0/TP8/TMO0/XCS7  | DTOL     | I   | Serial communication from DSP board UCOM to LCD board UCOM |
| 3   | PB1/TP9/TMO1/XCS6  | LTOD     | O   | Serial communication from LCD board UCOM to DSP board UCOM |
| 4   | PB2/TP10/TMO2/XCS5 | LDATA3   | O   | Data for effect LED                                        |
| 5   | PB3/TP11/TMO3/XCS4 | LDATA2   | O   | Data for BANK3 LED                                         |
| 6   | PB4/TP12           | CH1_LCLK | O   | LED latch clock for CH 1                                   |
| 7   | PB5/TP13           | CH2_ENC1 | I   | Encoder signal 1 for CH 2                                  |
| 8   | PB6/TP14           | SEL1     | O   | DSP chip select                                            |
| 9   | PB7/TP15           | CH2_ENC2 | I   | Encoder signal 2 for CH 2                                  |
| 10  | FEW                | FLWR     | I   | Wrting enable signal of built-in flash ROM                 |
| 11  | Vss                | Vss      | I   | GND                                                        |
| 12  | P90/TXD0           | STX0     | I   | Transmit port for DSP communication                        |
| 13  | P91/TXD1           | STX1     | I   | Transmit port for microcomputer communication              |
| 14  | P92/RXD0           | SRX0     | O   | Receive port for DSP communication                         |
| 15  | P93/RXD1           | SRX1     | O   | Receive port for microcomputer communication               |
| 16  | P94/SCK0/XIRQ4     | SCK0     | O   | Clock for DSP communication                                |
| 17  | P95/SCK1/XIRQ5     | SCK1     | O   | Clock for microcomputer communication                      |
| 18  | P40/D0             | DT0      | I/O | Data bus 0 of flash ROM                                    |
| 19  | P41/D1             | DT1      | I/O | Data bus 1 of flash ROM                                    |
| 20  | P42/D2             | DT2      | I/O | Data bus 2 of flash ROM                                    |
| 21  | P43/D3             | DT3      | I/O | Data bus 3 of flash ROM                                    |
| 22  | Vss                | Vss      | I   | GND                                                        |
| 23  | P44/D4             | DT4      | I/O | Data bus 4 of flash ROM                                    |
| 24  | P45/D5             | DT5      | I/O | Data bus 5 of flash ROM                                    |
| 25  | P46/D6             | DT6      | I/O | Data bus 6 of flash ROM                                    |
| 26  | P47/D7             | DT7      | I/O | Data bus 7 of flash ROM                                    |
| 27  | P30/D8             | DT8      | I/O | Data bus 8 of flash ROM                                    |
| 28  | P31/D9             | DT9      | I/O | Data bus 9 of flash ROM                                    |
| 29  | P32/D10            | DT10     | I/O | Data bus 10 of flash ROM                                   |
| 30  | P33/D11            | DT11     | I/O | Data bus 11 of flash ROM                                   |
| 31  | P34/D12            | DT12     | I/O | Data bus 12 of flash ROM                                   |
| 32  | P35/D13            | DT13     | I/O | Data bus 13 of flash ROM                                   |
| 33  | P36/D14            | DT14     | I/O | Data bus 14 of flash ROM                                   |
| 34  | P37/D15            | DT15     | I/O | Data bus 15 of flash ROM                                   |
| 35  | Vcc                | Vcc      | I   | Power supply                                               |
| 36  | P10/A0             | AD0      | O   | Address bus 0 of flash ROM                                 |
| 37  | P11/A1             | AD1      | O   | Address bus 1 of flash ROM                                 |
| 38  | P12/A2             | AD2      | O   | Address bus 2 of flash ROM                                 |
| 39  | P13/A3             | AD3      | O   | Address bus 3 of flash ROM                                 |
| 40  | P14/A4             | AD4      | O   | Address bus 4 of flash ROM                                 |
| 41  | P15/A5             | AD5      | O   | Address bus 5 of flash ROM                                 |
| 42  | P16/A6             | AD6      | O   | Address bus 6 of flash ROM                                 |
| 43  | P17/A7             | AD7      | O   | Address bus 7 of flash ROM                                 |
| 44  | Vss                | Vss      | I   | GND                                                        |
| 45  | P20/A8             | AD8      | O   | Address bus 8 of flash ROM                                 |
| 46  | P21/A9             | AD9      | O   | Address bus 9 of flash ROM                                 |
| 47  | P22/A10            | AD10     | O   | Address bus 10 of flash ROM                                |
| 48  | P23/A11            | AD11     | O   | Address bus 11 of flash ROM                                |

| No. | Mark                  | Name      | I/O | Function                                                |
|-----|-----------------------|-----------|-----|---------------------------------------------------------|
| 49  | P24/A12               | AD12      | O   | Address bus 12 of flash ROM                             |
| 50  | P25/A13               | AD13      | O   | Address bus 13 of flash ROM                             |
| 51  | P26/A14               | AD14      | O   | Address bus 14 of flash ROM                             |
| 52  | P27/A15               | AD15      | O   | Address bus 15 of flash ROM                             |
| 53  | P50/A16               | AD16      | O   | Address bus 16 of flash ROM                             |
| 54  | P51/A17               | AD17      | O   | Address bus 17 of flash ROM                             |
| 55  | P52/A18               | AD18      | O   | Address bus 18 of flash ROM                             |
| 56  | P53/A19               | AD19      | O   | Address bus 19 of flash ROM                             |
| 57  | Vss                   | Vss       | I   | GND                                                     |
| 58  | P60/XWAIT             | WAIT      | I   | External address access Insertion request of wait state |
| 59  | P61/XBREQ             | RST       | O   | Reset signal to the flash ROM and LCD controller        |
| 60  | P62/XBACK             | CH2_LCLK  | O   | LED latch clock for CH 2                                |
| 61  | P67/φ                 | CH2_EF_SW | I   | Effect switch for CH 2                                  |
| 62  | XSTBY                 | XSTBY     | I   | Standby Low: Standby mode                               |
| 63  | XRES                  | XRESET    | I   | Reset input Low: Reset                                  |
| 64  | NMI                   | NMI       | I   | Non maskable interruption request Active Low            |
| 65  | Vss                   | Vss       | I   | GND                                                     |
| 66  | EXTAL                 | EXTAL     | I   | Connect a crystal resonator                             |
| 67  | XTAL                  | XTAL      | I   | Connect a crystal resonator                             |
| 68  | Vcc                   | Vcc       | I   | Power supply                                            |
| 69  | P63/XAS               | XAS       | O   | Address strobe Non connection                           |
| 70  | P64/XRD               | XRD       | O   | Read for LCD controller                                 |
| 71  | P65/XHWR              | XHWR      | O   | Hilight for LCD controller                              |
| 72  | P66/XLWR              | XLWR      | O   | Lowlight for LCD controller                             |
| 73  | MD0                   | MD0       | I   | Operation mode control pin                              |
| 74  | MD1                   | MD1       | I   | MD2 : HIGH MD1 : HIGH MD0 : HIGH mode 5                 |
| 75  | MD2                   | MD2       | I   | Bus width 8bit, 16M byte Built-in ROM and RAM are valid |
| 76  | AVcc                  | AVcc      | I   | Power supply for A/D converter                          |
| 77  | VREF                  | VREF      | I   | Reference voltage input for A/D converter               |
| 78  | P70/AN0               | PNL_YIN   | I   | Y direction input of touch panel Use A/D converter.     |
| 79  | P71/AN1               | PNL_XIN   | I   | X direction input of touch panel Use A/D converter.     |
| 80  | P72/AN2               | CNT_VR    | I   | Contrast adjustment volume Use A/D converter.           |
| 81  | P73/AN3               | SW1_AD    | I   | Switch for CH 1 Use A/D converter.                      |
| 82  | P74/AN4               | MIX_VR1   | I   | Mix volume of CH 1 Use A/D converter.                   |
| 83  | P75/AN5               | SW2_AD    | I   | Switch for CH 2 Use A/D converter.                      |
| 84  | P76/AN6/DA0           | MIX_VR2   | I   | Mix volume of CH 2 Use A/D converter.                   |
| 85  | P77/AN7/DA1           | CH1_EF_SW | I   | Effect switch for CH 1                                  |
| 86  | AVss                  | Avss      | I   | Ground for A/D converter                                |
| 87  | P80/XIRQ0             |           | I   | Not used (GND)                                          |
| 88  | P81/XIRQ1/XCS3        | CH1_ENC2  | I   | Encoder input 2 for CH 1                                |
| 89  | P82/XIRQ2/XCS2        | CNT_CS    | O   | Chip select output for LCD controller                   |
| 90  | P83/XIRQ3/XCS1/XADTRG | FROM_CS   | O   | Chip select output for flash ROM                        |
| 91  | P84/XCS0              | CH1_ENC1  | I   | Encoder input 1 for CH 1                                |
| 92  | Vss                   |           | I   | GND                                                     |
| 93  | PA0/TP0/TCLKA         | PNL_XV    | O   | Voltage output for X direction of touch panel           |
| 94  | PA1/TP1/TCLKB         | PNL_YV    | O   | Voltage output for Y direction of touch panel           |
| 95  | PA2/TP2/TIOCA0/TCLKC  | PWM0      | O   | PWM output 0 for backlight control                      |
| 96  | PA3/TP3/TIOCB0/TCLKD  | NC        |     | NC for PWM output                                       |
| 97  | PA4/TP4/TIOCA1        |           | I   | Not used (GND)                                          |
| 98  | PA5/TP5/TIOCB1        | PA5       | O   | Voltage control of touch panel                          |
| 99  | PA6/TP6/TIOCA2        | LDATA1    | O   | For BANK2 LED                                           |
| 100 | PA7/TP7/TIOCB2        | LDATA0    | O   | For BANK1 LED                                           |

## 8. PANEL FACILITIES AND SPECIFICATIONS

A

### ■ Top Panel (1)



#### 1 CH-1 input selector switch

(MIC – PHONO 1/LINE 1 – CD 1)

Use to select input signal from MIC jack, CH-1 PHONO/LINE input jacks, or CH-1 CD input jacks, and send them to the TRIM control.

\* When [MIC] is selected, the MIC signals are sent directly to the TRIM section without passing through the microphone level and microphone equalizer circuits.

#### 2 CH-1 TRIM dial

Use to adjust the CH-1 input signal level  
(range of adjustment: +9 dB to -).

#### 3 Microphone level dial (MIC LEVEL)

Use to adjust the microphone level  
(range of adjustment: 0 dB to -).

#### 4 Microphone equalizer dials (HI/LOW)

**HI**  
Use to adjust microphone treble response  
(range of adjustment: 10 kHz, ±12 dB).

#### LOW

Use to adjust microphone bass response  
(range of adjustment: 100 Hz, ±12 dB).

F

**5 CH-1 equalizer dials (HI/MID/LOW)****HI**

Use to adjust CH-1 input treble response  
(range of adjustment: 13 kHz, +6 dB to -26 dB).

**MID**

Use to adjust CH-1 input midrange response  
(range of adjustment: 1 kHz, +6 dB to -26 dB).

**LOW**

Use to adjust CH-1 input bass response  
(range of adjustment: 70 Hz, +6 dB to -26 dB).

**6 MIC SEND button and indicator**

When set to On, the indicator lights, and microphone signals are output at the SEND jacks. This function is disabled when the CH-1 input selector switch is set to [MIC].

**7 Session input level dial (SESSION IN)**

Use to adjust the session input volume  
(range of adjustment: 0 dB to -).

**8 CH-1 SEND button and indicator**

When set to On, the indicator lights, and CH-1 signals are output at the SEND jacks.

**9 CH-1 EQ ON/OFF switch and indicator**

When set to [ON], the indicator lights and CH-1 equalizer is enabled.

When set to [OFF], the indicator goes out and the equalizer circuit is bypassed.

**10 CH-2 input selector switch****(CH-1 – PHONO 2/LINE 2 – CD 2)**

Use to select input signal from CH-1 (component selected with CH-1 input selector switch), CH-2 PHONO/LINE input jacks, or CH-2 CD input jacks, and send them to the TRIM control.

\* When [CH-1] is selected, signals are sent to the CH-2 TRIM control without being sent through the CH-1 TRIM control.

**11 CH-2 TRIM dial**

Use to adjust the CH-2 input signal level  
(range of adjustment: +9 dB to -).

**12 MASTER LEVEL dial**

User to adjust the master output volume level  
(range of adjustment: 0 dB to -).

**13 Booth monitor level dial****(BOOTH/SESSION OUT)**

Use to adjust the volume level of signals at the BOOTH/ SESSION OUT jacks (range of adjustment: 0 dB to -).

This level can be set independently of the setting of the MASTER LEVEL dial.

**14 Headphones level dial (PHONES)**

Use to adjust the volume level of the headphones output  
(range of adjustment: 0 dB to -).

**15 Monitor SELECT switch****MASTER position**

selects MASTER output. (This setting allows output regardless of the setting of the MASTER LEVEL dial.)

**EFFECT position**

Regardless of the [ON/OFF] setting of the EFFECT switch, the output is the signal selected with CUE, with effects added.

**CUE position**

selects the channel adjusted with the headphone mixing lever (17).

**16 CH-2 equalizer dials (HI/MID/LOW)****HI**

Use to adjust CH-2 input treble response  
(range of adjustment: 13 kHz, +6 dB to -26 dB).

**MID**

Use to adjust CH-2 input midrange response  
(range of adjustment: 1 kHz, +6 dB to -26 dB).

**LOW**

Use to adjust CH-2 input bass response  
(range of adjustment: 70 Hz, +6 dB to -26 dB).

**17 Headphone mixing lever (CH-1 – CH-2)**

This lever does not function when the monitor SELECT switch (15) is set to [MASTER].

When the monitor SELECT switch (15) is set to [EFFECT] or [CUE], moving the lever to the left side produces CH-1 monitor output, while moving it to the right produces CH-2 monitor output.

Centering the lever at the center detent position produces balanced output of CH-1 and CH-2 signals.

**18 CH-2 SEND button and indicator**

When set to On, the indicator lights, and CH-2 signals are output at the SEND jacks.

**19 CH-2 EQ ON/OFF switch and indicator**

When set to [ON], the indicator lights and the CH-2 equalizer is enabled.

When set to [OFF], the indicator goes out and the equalizer circuit is bypassed.

**20 CH-1 FADER START button**

When this button is set to On, fader start and back cue can be performed on the CH-1 CD player.

Whether the operation is initiated by operation of the CH-1 fader lever, or by the cross fader lever is determined by the position of the front panel's FADER START selector switch; the selection is indicated by the lighting of the top panel's CH-1 FADER START indicator or C.F.1 FADER START indicator.

**21 CH-1 output On/Off lever (TRANSFORM)**

Use to set CH-1 output to On or Off (Mute).

The lever's setting angle can be changed in 45° increments (changing of the angle should be performed by an authorized Pioneer service technician).

**22 CH-1 REVERSE indicator**

When lighted, indicates that the front panel's FADER REVERSE switch has been set so that the CH-1 fader lever operates in the reverse direction (see front panel item 52).

**23 CH-1 fader lever**

The CH-1 fader lever is used to control the level of signals sent to the cross fader. Signal level is maximum at scale mark "10," and minimum at scale mark "0".

When the front panel CH-1 FADER REVERSE switch is set to [ON], the signal level is maximum at scale mark "0," and minimum at scale mark "10".

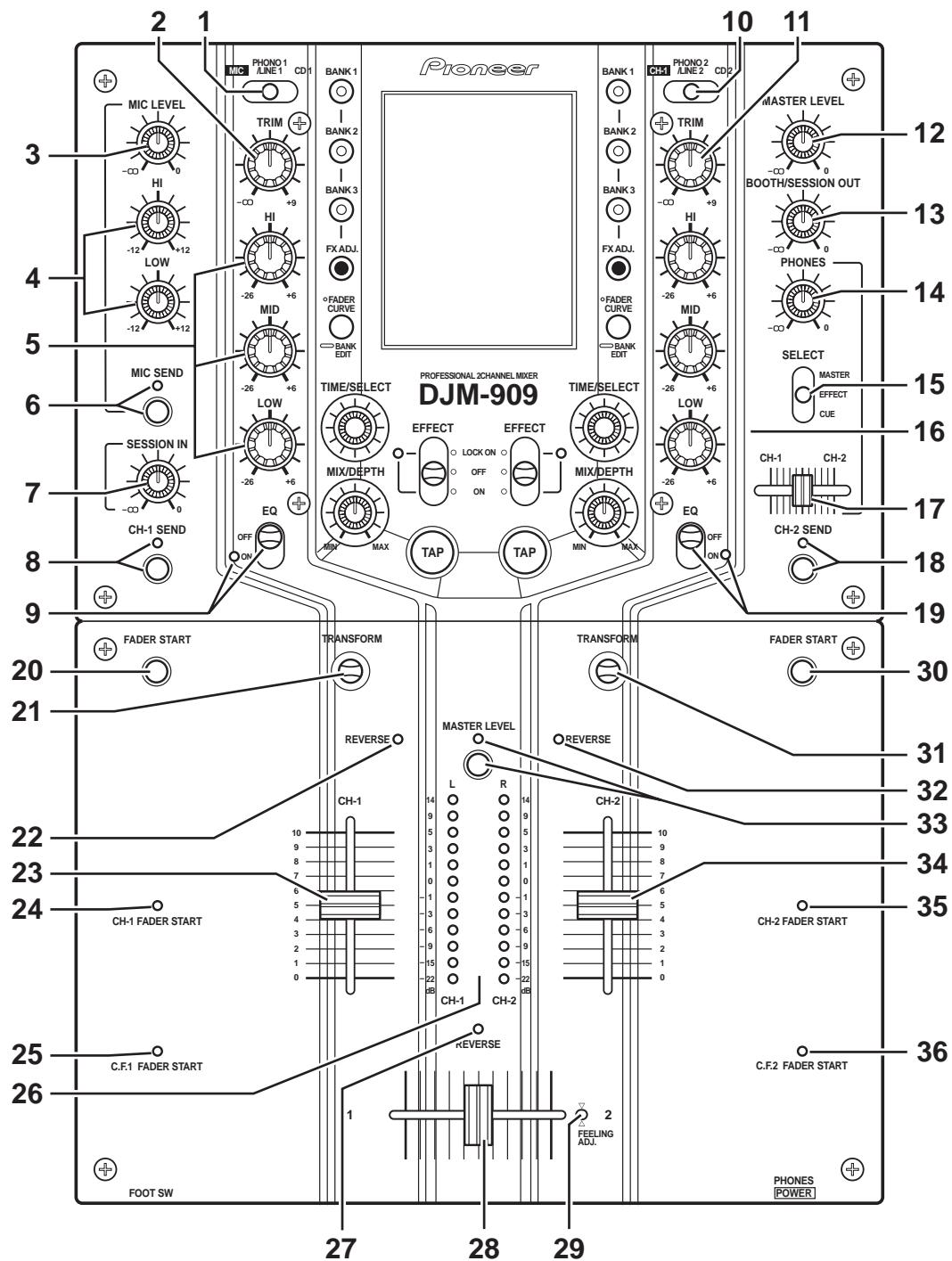
\* The channel fader curve can be adjusted by means of the front panel FADER CURVE dials.

**24 CH-1 FADER START indicator**

Lights when the CH-1 fader start/back cue function is enabled (see also top panel item 20 and front panel item 53).

**25 C.F.1 FADER START indicator**

Lights when CH-1 cross-fader start/back cue function is enabled (see also top panel item 20 and front panel item 53).



#### E 26 Level meters

Displays CH-1 and CH-2 peak levels or master output (stereo) peak levels (see also item 33).

#### F 27 Cross fader REVERSE indicator

Indicates that the front panel's FADER REVERSE switch has been set so that the cross fader now operates in reverse (left side is CH-2, right side is CH-1) (see also front panel item 52).

#### G 28 Cross fader lever

When the lever is moved to the left side, CH-1 is at maximum output and CH-2 is at minimum. When moved to the right side, CH-2 is at maximum output and CH-1 is at minimum.

\* The cross fader curve can be adjusted individually for CH-1 and CH-2 by means of the front panel FADER CURVE dials.

#### H 29 Operating load adjust screw (FEELING ADJ.)

The hexagonal Allen screw located next to the panel's slider opening can be rotated with a hexagonal Allen driver to adjust the sliding resistance of the cross fader lever.

#### I 30 CH-2 FADER START button

When this button is set to On, fader start and back cue can be performed on the CH-2 CD player.

Whether the operation is initiated by operation of the CH-2 fader lever, or by the cross fader lever is determined by the position of the front panel's FADER START selector switch; the selection is indicated by the lighting of the top panel's CH-2 FADER START indicator or C.F.2 FADER START indicator.

**31 CH-2 output On/Off lever (TRANSFORM)**

Use to set CH-2 output to On or Off (Mute).

This lever's setting angle can be changed in 45° increments (changing of the angle should be performed by an authorized Pioneer service technician).

**32 CH-2 REVERSE indicator**

When lighted, indicates that the front panel's FADER REVERSE switch has been set so that the CH-2 fader lever operates in the reverse direction (see front panel item 52).

**33 MASTER LEVEL display button and indicator**

When depressed to the On position, the indicator lights and the level meters display the master output (stereo) peak levels. When turned Off, the level meters display the peak levels for CH-1 (left) and CH-2 (right) (see also item 26).

**34 CH-2 fader lever**

The CH-2 fader lever is used to control the level of signals sent to the cross fader. Signal level is maximum at scale mark "10," and minimum at scale mark "0".

When the front panel CH-2 FADER REVERSE switch is set to [ON], the signal level is maximum at scale mark "0," and minimum at scale mark "10".

\* The channel fader curve can be adjusted by means of the front panel FADER CURVE dials.

**35 CH-2 FADER START indicator**

Lights when the CH-2 fader start/back cue function is enabled (see also top panel item 30 and front panel item 53).

**36 C.F.2 FADER START indicator**

Lights when CH-2 cross-fader start/back cue function is enabled (see also top panel item 30 and front panel item 53).

**37 Touch Panel**

Touch this screen to set effects in accordance with the displayed menus.

\* The panel's screen contrast and backlight luminance can be adjusted (see rear panel items 61 and 63).

**38 CH-1 effect bank buttons and indicators****(BANK 1, 2, 3)**

When one of these buttons is pressed, the indicator lights and the corresponding preset effect is enabled. Each BANK button can be recorded with three effects for CH-1 (at time of shipping, the buttons have been factory preset with typically used effects). BANK 1 is selected in the default condition after power is initially turned on.

**39 CH-1 effect parameter adjust button (FX ADJ.)**

Press to display the touch panel's CH-1 effect parameter adjust menu.

**40 Fader curve display and CH-1 effect select button (FADER CURVE/BANK EDIT)**

Press to display the fader curve on the touch panel. Holding the button depressed for about one second will cause the touch panel to display the CH-1 effect select menu.

**41 CH-1 effect time adjust/select dial (TIME/SELECT)**

Use to adjust the time parameters of effects applied to CH-1 (rotate clockwise to lengthen, counterclockwise to shorten). When the effect select menu is displayed, causes the effects list to scroll.

**42 CH-1 effect mix ratio/depth adjust dial (MIX/DEPTH)**

Use to adjust the volume (amount) of effects applied to CH-1 (rotate clockwise to increase effects, counterclockwise to reduce).

**43 CH-1 effect switch and indicator (EFFECT LOCK ON/OFF/ON)**

To turn effects [ON], either pull switch forward (switch returns automatically to [OFF] when released) or slide to far side to the [LOCK ON] position. When effects are [ON], the indicator flashes and effects are applied to CH-1.

**44 CH-1 TAP button**

Under normal conditions, the automatic BPM counter operates to display the track's BPM value on the touch panel. Automatic BPM counting may be difficult with some tracks, however. In such cases, or if you wish to deliberately set a different BPM, use the TAP button.

- The BPM value can be changed by rotating the TIME/ SELECT dial while holding the TAP button depressed.
- Tapping the button in time with the beat will cause the function to switch to the manual BPM count mode; the tapped beat will be counted and displayed as the BPM value. Returning to the auto BPM mode is performed from the effect parameter adjust screen

**45 CH-2 effect bank buttons and indicators****(BANK 1, 2, 3)**

When one of these buttons is pressed, the indicator lights and the corresponding preset effect is enabled. Each BANK button can be recorded with three effects for CH-2 (at time of shipping, the buttons have been factory preset with typically used effects). BANK 1 is selected in the default condition after power is initially turned on.

**46 CH-2 effect parameter adjust button (FX ADJ.)**

Press to display the touch panel's CH-2 effect parameter adjust menu.

**47 Fader curve display and CH-2 effect select button (FADER CURVE/BANK EDIT)**

Press to display the fader curve on the touch panel. Holding the button depressed for about one second will cause the touch panel to display the CH-2 effect select menu.

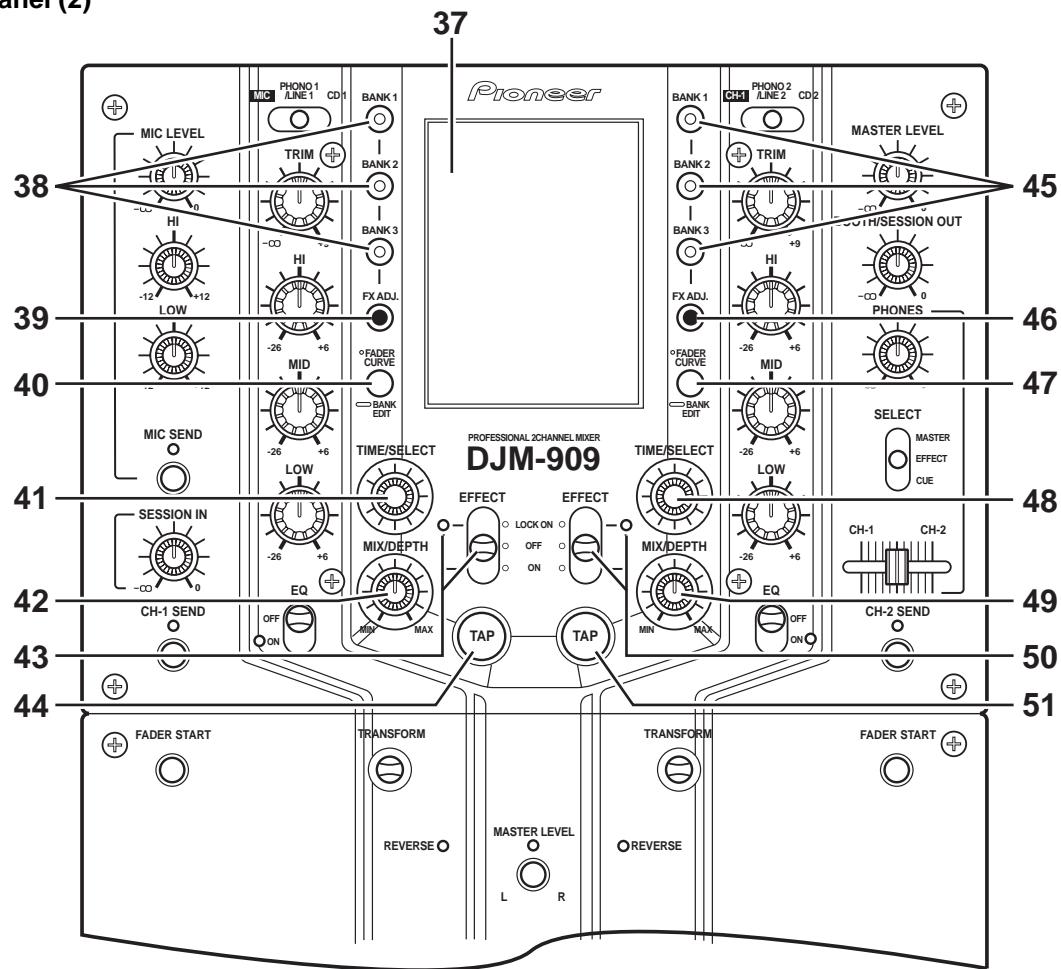
**48 CH-2 effect time adjust/select dial (TIME/SELECT)**

Use to adjust the time parameters of effects applied to CH-2 (rotate clockwise to lengthen, counterclockwise to shorten). When the effect select menu is displayed, causes the effects list to scroll.

**49 CH-2 effect mix ratio/depth adjust dial (MIX/DEPTH)**

Use to adjust the volume (amount) of effects applied to CH-2 (rotate clockwise to increase effects, counterclockwise to reduce).

## ■ Top Panel (2)



### D 50 CH-2 effect switch and indicator (EFFECT LOCK ON/OFF/ON)

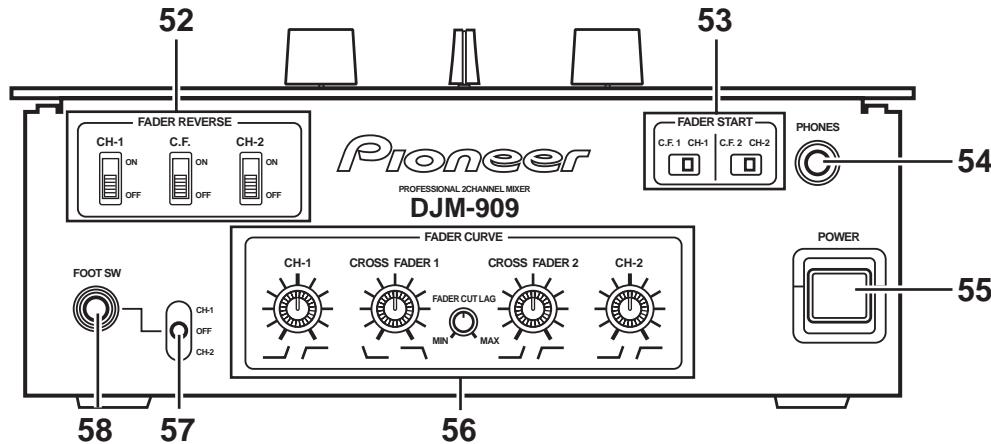
To turn effects [ON], either pull switch forward (switch returns automatically to [OFF] when released) or slide to far side to the [LOCK ON] position. When effects are [ON], the indicator flashes and effects are applied to CH-2.

### E 51 CH-2 TAP button

Under normal conditions, the automatic BPM counter operates to display the track's BPM value on the touch panel. Automatic BPM counting may be difficult with some tracks, however. In such cases, or if you wish to deliberately set a different BPM, use the TAP button.

- The BPM value can be changed by rotating the TIME/SELECT dial while holding the TAP button depressed.
- Tapping the button in time with the beat will cause the function to switch to the manual BPM count mode; the tapped beat will be counted and displayed as the BPM value. Returning to the auto BPM mode is performed from the effect parameter adjust screen

## ■ Front Panel



### 52 FADER REVERSE switches

#### CH-1 ON/OFF

When set to [ON], the top panel's CH-1 REVERSE indicator lights, and the CH-1 fader lever operates in the reverse direction (scale mark "0" becomes 0 dB attenuation, and "10" becomes minus infinity). The fader start function also operates in reverse.

#### CH-2 ON/OFF

When set to [ON], the top panel's CH-2 REVERSE indicator lights, and the CH-2 fader lever operates in the reverse direction (scale mark "0" becomes 0 dB attenuation, and "10" becomes minus infinity). The fader start function also operates in reverse.

#### C.F. ON/OFF

When set to [ON], the top panel's cross fader REVERSE indicator lights, and the cross fader lever operates in the reverse direction (left side becomes CH-2, and right side becomes CH-1). The fader start function also operates in reverse.

### 53 FADER START selector switches

#### C.F.1 / CH-1

This switch determines whether the fader start operation for the CD player connected to CH-1 is activated by the cross fader lever, or by the CH-1 fader lever.

When the top panel's CH-1 FADER START button is set to On, selecting [C.F.1] causes the top panel's C.F.1 FADER START indicator to light, and selecting [CH-1] causes the top panel's CH-1 FADER START indicator to light.

#### C.F.2 / CH-2

This switch determines whether the fader start operation for the CD player connected to CH-2 is activated by the cross fader lever, or by the CH-2 fader lever.

When the top panel's CH-2 FADER START button is set to On, selecting [C.F.2] causes the top panel's C.F.2 FADER START indicator to light, and selecting [CH-2] causes the top panel's CH-2 FADER START indicator to light.

### 54 Headphone output jack (PHONES)

Accepts a 6.3 mm stereo headphones plug.

### 55 POWER switch

### 56 Fader attenuation dials (FADER CURVE)

#### CH-1

Use to adjust CH-1's fader attenuation curve.

#### CH-2

Use to adjust CH-2's fader attenuation curve.

#### CROSS FADER 1

Use to adjust cross fader's CH-1 attenuation curve.

#### CROSS FADER 2

Use to adjust cross fader's CH-2 attenuation curve.

#### FADER CUT LAG

Use to adjust mechanical play at both extremes of the cross fader movement (the range in which lever movement produces no effect).

### 57 Foot switch channel select switch (FOOT SW CH-1/OFF/CH-2)

Use to select whether the Effect On/Off foot switch function operates on channel 1 [CH-1], channel 2 [CH-2]. When the switch is in the center position, both CH-1 and CH-2 are [OFF].

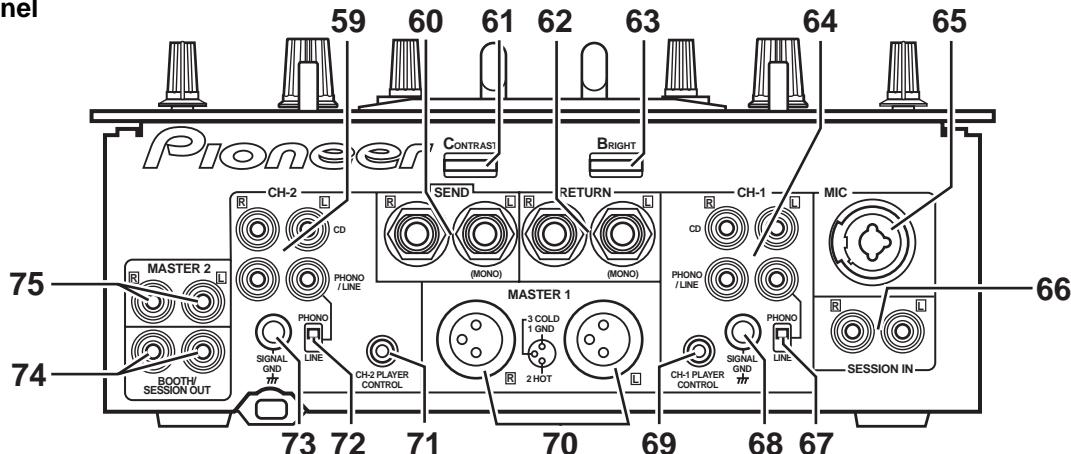
### 58 Foot switch jack (FOOT SW)

This 6.3 mm RCA jack can be used to connect an On/Off type pedal switch used to turn effects On and Off.

Various types of foot switch are available; some turn On when pressed, some turn Off when pressed, and others have locking mechanisms (alternate On/Off with successive presses).

Select the type in accordance with your own preferences.

## ■ Rear Panel



### 59 CH-2 input jacks

**CD**

Connect to audio output from CH-2 CD player.

### PHONO / LINE

Connect to audio output from CH-2 analog turntable, cassette deck or other line signal level component.

### 60 External effector output jacks (SEND)

Connect to the input connectors of an external effector.

When the top panel switches (MIC SEND, CH-1 SEND, and CH-2 SEND) are set to On, these jacks output the MIC, CH-1, and CH-2 signals to the external effector.

When using an effector with a monaural input, connect it to the L channel output only. The signal actually sent to the effector will represent a mix of L and R signals.

### 61 Touch panel screen contrast control (CONTRAST)

Use to adjust the top panel's touch panel contrast.

### 62 External effector return jacks (RETURN)

Connect to the output connectors of the external effector.

When using an effector with monaural output, connect only to the L channel input. The signal received from the effector will be input to both L and R channels.

### 63 Touch panel backlight control (BRIGHT)

Use to adjust the top panel's touch panel backlight luminance.

### 64 CH-1 input jacks

**CD**

Connect to the audio output of the CH-1 CD player.

### PHONO / LINE

Connect to audio output from CH-1 analog turntable, cassette deck or other line signal level component.

### 65 Microphone input jack (MIC)

Connect to a microphone with XLR type or PHONE type plug.

When applying effects to the microphone sound, set the top panel's CH-1 input selector switch (MIC– PHONO 1/LINE 1– CD1) to the [MIC] position.

### 66 Session input jacks (SESSION IN)

When using multiple mixers simultaneously, connect the other mixer outputs to these jacks.

### 67 CH-1 PHONO/LINE selector switch

Use to set the input sensitivity at the CH-1 PHONO/LINE

connectors. The [PHONO] position supports an MM type cartridge.

\* When no analog turntable is used, set this switch to the [LINE] side.

### 68 CH-1 signal ground (SIGNAL GND)

Connect to the CH-1 analog turntable's ground wire. Note that this is not meant as a safety ground.

### 69 CH-1 PLAYER CONTROL jack

When a Pioneer DJ CD player is connected to the CH-1 CD jacks, a special control cord can be used to connect this jack to the player's control jack, thus enabling the fader start function.

### 70 MASTER 1 jacks

XLR type balanced output. Connect to the power amplifier's balanced input jacks.

### 71 CH-2 PLAYER CONTROL jack

When a Pioneer DJ CD player is connected to the CH-2 CD jacks, a special control cord used to connect this jack to the player's control jack, thus enabling the fader start function.

### 72 CH-2 PHONO/LINE selector switch

Use to set the input sensitivity at the CH-2 PHONO/LINE

connectors. The [PHONO] position supports an MM type cartridge.

\* When no analog turntable is used, set this switch to the [LINE] side.

### 73 CH-2 signal ground (SIGNAL GND)

Connect to the CH-2 analog turntable's ground wire. Note that this is not meant as a safety ground.

### 74 BOOTH/SESSION OUT jacks

Connector jacks for booth monitor output. When using this unit in tandem with another mixer, connect these jacks to the other mixer's session input jacks.

### 75 MASTER 2 jacks

RCA type unbalanced output. Connect to the power amplifier's unbalanced input jacks.