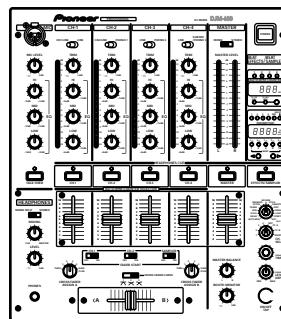


Pioneer

Service Manual



ORDER NO.
RRV2234

DJ MIXER

DJM-600

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

Type	Model	Power Requirement	The voltage can be converted by the following method.
			DJM-600
KUC	O	AC120V	—
RL	O	AC110- 120V/220-240V	With the voltage selector
WY	O	AC220 -240V	—

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PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan

PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.

PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium

PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Allexandra Road, #04-01, Singapore 159936

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1. SAFETY INFORMATION

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

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

WARNING

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

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

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

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (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.

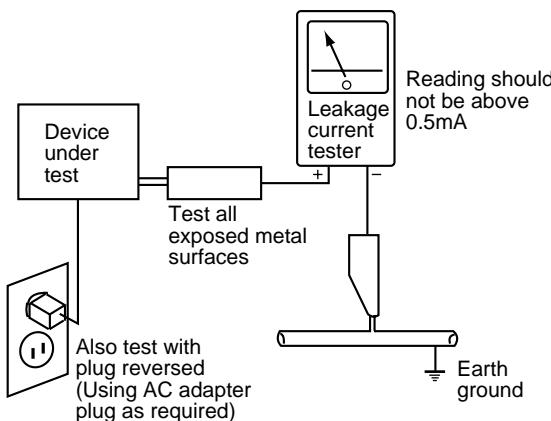
2. PRODUCT SAFETY NOTICE

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.



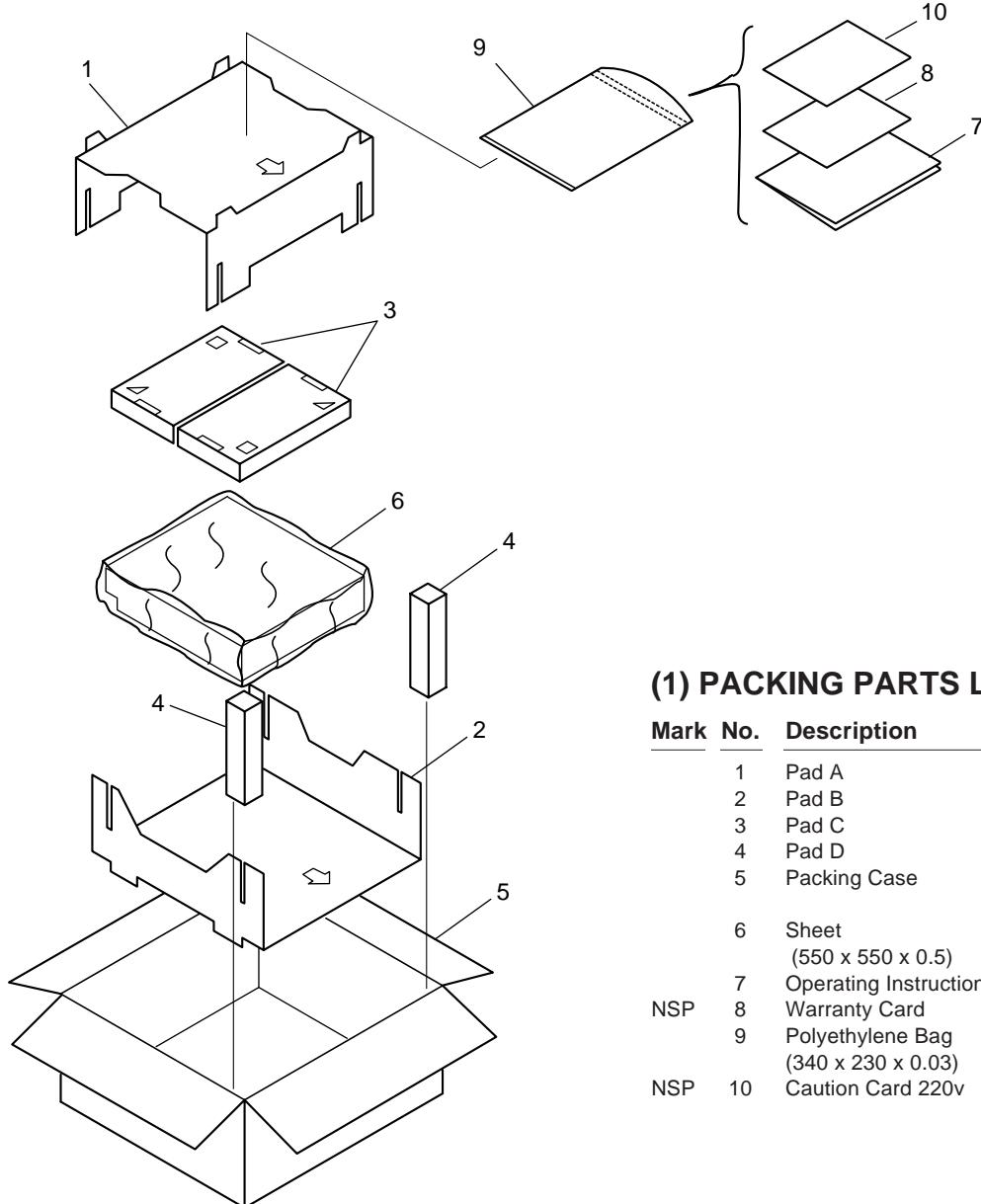
AC Leakage Test

2. EXPLODED VIEWS AND PARTS LIST

NOTES :

- Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to  mark on the product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

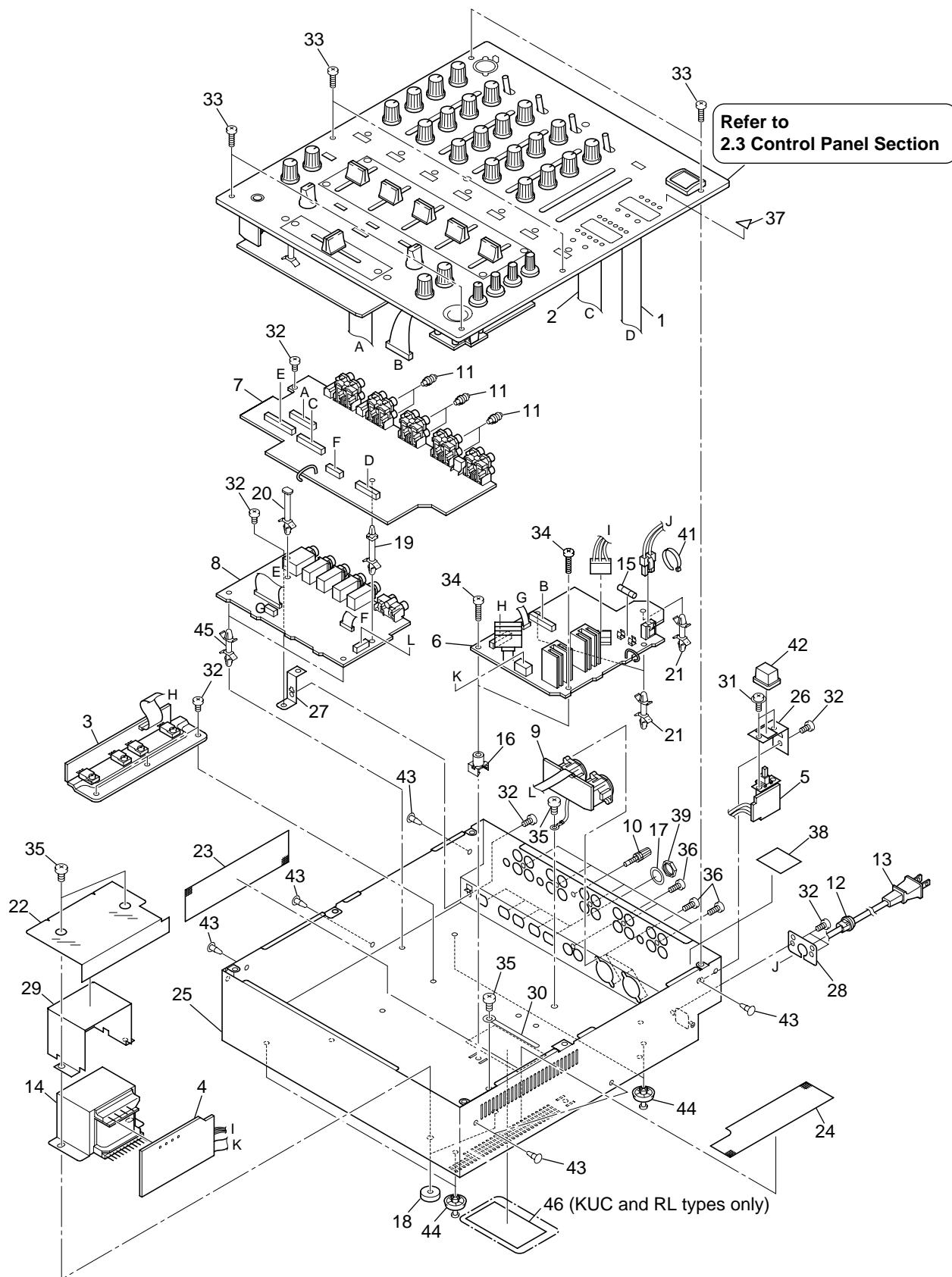
Mark	No.	Description	Part No.
	1	Pad A	DHA1456
	2	Pad B	DHA1457
	3	Pad C	DHA1458
	4	Pad D	DHA1469
	5	Packing Case	See Contrast table (2)
	6	Sheet (550 x 550 x 0.5)	RHX1006
NSP	7	Operating Instructions	See Contrast table (2)
	8	Warranty Card	See Contrast table (2)
	9	Polyethylene Bag (340 x 230 x 0.03)	Z21-038
NSP	10	Caution Card 220v	See Contrast table (2)

(2) CONTRAST TABLE

DJM-600/KUC, RL and WY types are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.			Remarks
			KUC type	RL type	WY type	
NSP	5	Packing Case	DHG1964	DHG1965	DHG1959	
	7	Operating Instructions (English/ French)	DRB1251	Not used	Not used	
	7	Operating Instructions (English/ Spanish/Chinese)	Not used	DRB1253	Not used	
	7	Operating Instructions (English/ French/ German/Italian/Dutch/Spanish)	Not used	Not used	DRB1252	
NSP	8	Warranty Card	DRY1177	Not used	Not used	
	10	Caution Card 220V	Not used	ARR7003	Not used	

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

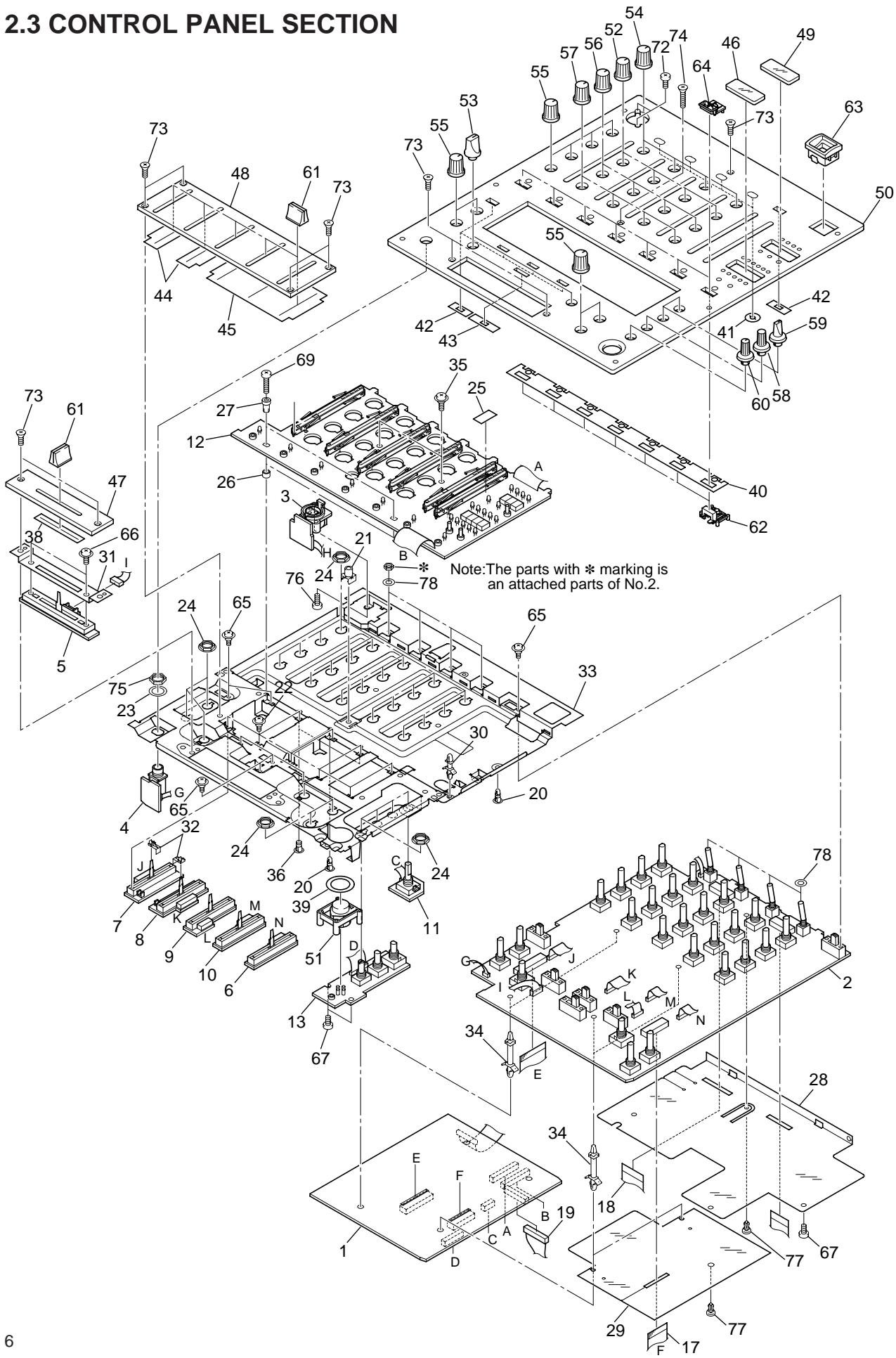
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	19P F.F.C/60V	DDD1155	NSP	31	Screw	AMZ30P040FMC
	2	23P F.F.C/60V	DDD1154		32	Screw	BBZ30P060FZK
	3	REG. ASSY	DWR1334		33	Screw	BBZ30P100FZK
	4	TRANS ASSY	DWR1335		34	Screw	BBZ30P180FMC
	5	POWER SW ASSY	DWR1333		35	Screw	BBZ40P060FMC
NSP	6	POWER ASSY	See Contrast table (2)	NSP	36	Screw	BPZ30P080FZK
	7	TERMINAL ASSY	DWZ1089		37	Caution Label	See Contrast table (2)
	8	PHONE ASSY	DWZ1090		38	SW Sheet	See Contrast table (2)
	9	BAL.OUT ASSY	DWZ1091		39	Nut	NKX2FUC
	10	Terminal Screw	AKE-031		40	*****	
△	11	Short Pin Plug	AKM7008	NSP	41	Binder	ZCA-SKB90BK
	12	Strain Relief	See Contrast table (2)		42	Power Knob	DAC1847
	13	Power Cord With Plug	See Contrast table (2)		43	Binder	AEC-036
	14	Power Transformer	See Contrast table (2)		44	Foot Assy	REC-434
	15	Fuse (1A: FU2)	See Contrast table (2)		45	PC Support	VEC1508
NSP	16	PCB Mould	AMR1525	NSP	46	Label	See Contrast table (2)
	17	Washer	DBE1010				
	18	Screw Guard	DEB1447				
NSP	19	PCB Spacer	DEC1389	NSP			
	20	Card Spacer	DEC1649				
NSP	21	PC Support	DEC1773	NSP			
	22	Sheet	DEC2375				
	23	Net	DED1129				
	24	Net	DED1152				
	25	Chassis	See Contrast table (2)				
NSP	26	SW Plate	DNF1653	NSP			
	27	Earth Plate	DNF1520				
	28	Power Cord Stay	DNF1640				
	29	Trans Shield	DNH2279				
	30	Cord Clamp	RNH1005				

(2) CONTRAST TABLE

DJM-600/KUC, RL and WY types are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.			Remarks
			KUC type	RL type	WY type	
NSP	6	POWER ASSY	DWR1337	DWR1336	DWR1332	
	12	Strain Relief	CM-22C	CM-22B	CM-22B	
	13	Power Cord With Plug	ADG7024	VDG1061	VDG1061	
	14	Power Transformer (AC120V)	DTT1158	Not used	Not used	
	14	Power Transformer (AC110-120V/ 220-240V)	Not used	DTT1157	Not used	
	14	Power Transformer (AC220-240V)	Not used	Not used	DTT1156	
	15	Fuse (FU2: 1A)	REK1075	Not used	Not used	
	15	Fuse (FU2: T500mA)	Not used	AEK1051	AEK1051	
	25	Chassis	DNA1258	DNA1259	DNA1256	
	37	Caution Label	DRW1975	Not used	Not used	
	38	SW Sheet	Not used	DEC2384	Not used	
	46	Label	DRW1977	DRW1977	Not used	

2.3 CONTROL PANEL SECTION



(1) CONTROL PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	DSP ASSY	DWX1999		41	Lever SW Packing	DED1120
	2	VR ASSY	DWG1517		42	Slide SW Packing B	DED1125
	3	MIC JACK ASSY	DWZ1087		43	SW Packing A	DED1145
	4	HP JACK ASSY	DWZ1088		44	Fader Packing A	DED1146
	5	C.F ASSY	DWG1519		45	Fader Packing C	DED1147
	6	FADER VR (MAIN) ASSY	DWG1520		46	Display Panel B	DAH1796
	7	FADER VR (CH1) ASSY	DWG1521		47	Slider Panel	See Contrast table (2)
	8	FADER VR (CH2) ASSY	DWG1522		48	Sub Panel	See Contrast table (2)
	9	FADER VR (CH3) ASSY	DWG1523		49	Display Panel A	DAH1947
	10	FADER VR (CH4) ASSY	DWG1524		50	Control Panel	See Contrast table (2)
NSP	11	DIGITAL SW ASSY	DWG1525		51	Loop Knob	DNK2943
	12	7SEG. ASSY	See Contrast table (2)		52	Rotary VR Knob G	DAA1133
NSP	13	EFFECT ASSY	DWG1518		53	Rotary SW Knob	DAA1134
	14	•••••			54	Rotary VR Knob DG	DAA1135
	15	•••••			55	Rotary VR Knob B	DAA1136
	16	•••••			56	Rotary VR Knob GY	DAA1139
	17	21P F.F.C/60V	DDD1156		57	Rotary VR Knob GG	DAA1140
	18	28P F.F.C/60V	DDD1157		58	Parameter Knob A	DAA1146
	19	Connector Assy	DKP3508		59	Rotary Select Knob	DAA1147
	20	PCB Holder	AEC1534		60	Parameler Knob B	DAA1148
NSP	21	PCB Mould	AMR1525		61	Fader Knob	DAC1846
	22	Screw	DBA1141		62	Tact Knob 2	DAC1950
	23	Washer	DBE1010		63	Power Knob Guide	DNK3768
	24	Nut M9	DBN1004		64	Tact Knob Guide 2	DNK3775
	25	Spacer	DEB1450		65	Screw	AMZ26P040FMC
	26	Collar	DEC1953		66	Screw	AMZ30P040FMC
	27	Bush	DEC1957		67	Screw	BBZ30P060FZK
	28	PCB Sheet A	DEC2367		68	•••••	
	29	PCB Sheet B	DEC2368		69	Screw	BBZ30P140FMC
	30	Spacer	DEC2369		70	•••••	
	31	Slider Plate	DNF1518		71	•••••	
	32	Arm	DNK3750		72	Screw	BPZ30P080FZK
NSP	33	Panel Stay Assy	DXB1731		73	Screw	CBZ30P080FZK
NSP	34	PCB Support	REC1248		74	Screw	CBZ30P180FZK
	35	Screw	VBA1039		75	Nut	NKX2FUC
NSP	36	PC Support	VEC1749		76	Screw	PPZ30P050FMC
	37	•••••			77	Rivet	RBM-003
	38	Fader Packing B	DED1100		78	Washer	WB50FMC
	39	Effect SW Packing	DED1110				
	40	Tact SW Packing	DED1119				

(2) CONTRAST TABLE

DJM-600/KUC, RL and WY types are constructed the same except for the following:

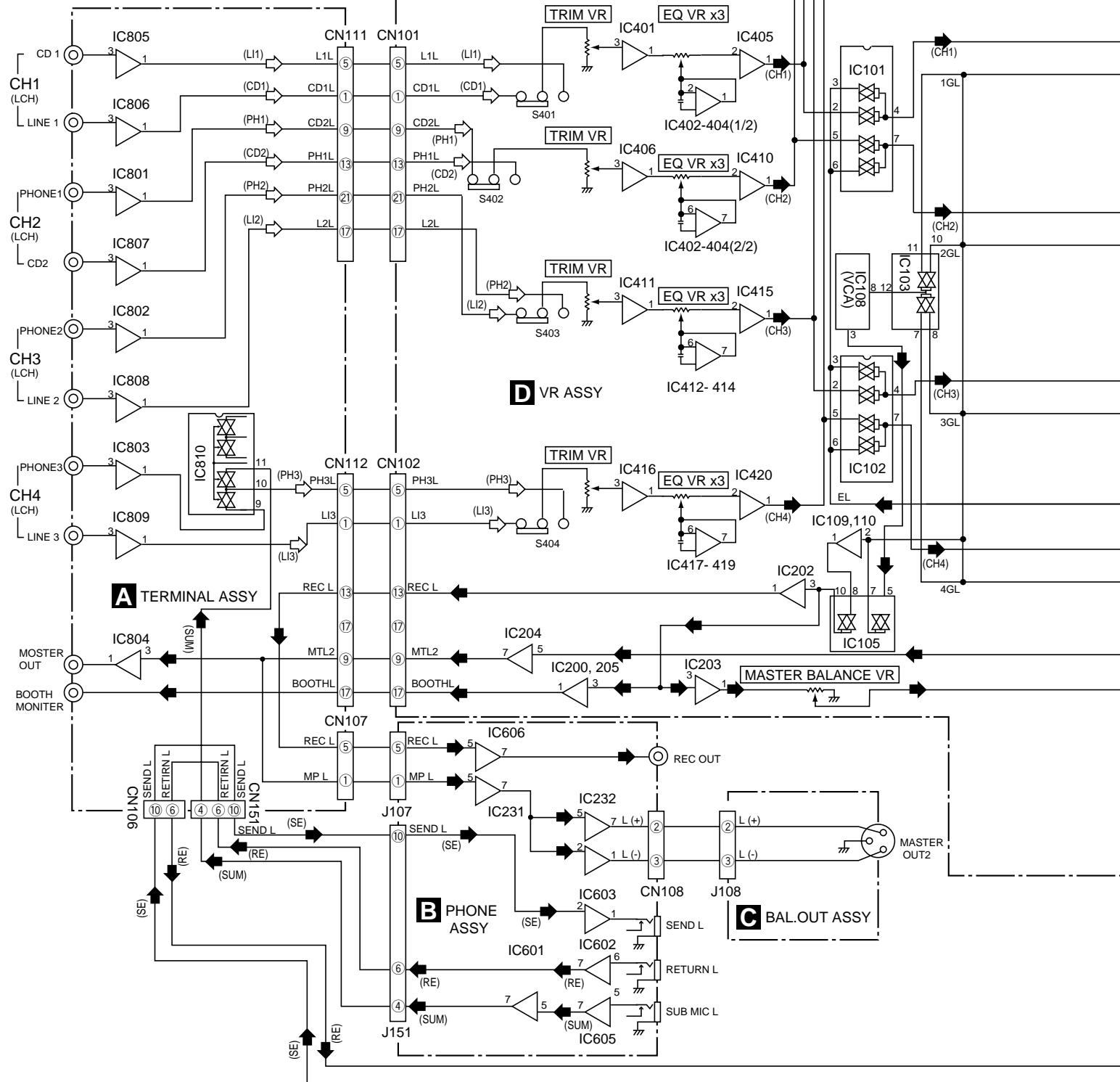
Mark	No.	Symbol and Description	Part No.			Remarks
			KUC type	RL type	WY type	
	12	7 SEG ASSY	DWZ1093	DWZ1093	DWZ1092	
	47	Slider Panel	DAH1945	DAH1945	DAH1955	
	48	Sub Panel	DAH1946	DAH1946	DAH1956	
	50	Control Panel	DNB1075	DNB1075	DNB1076	

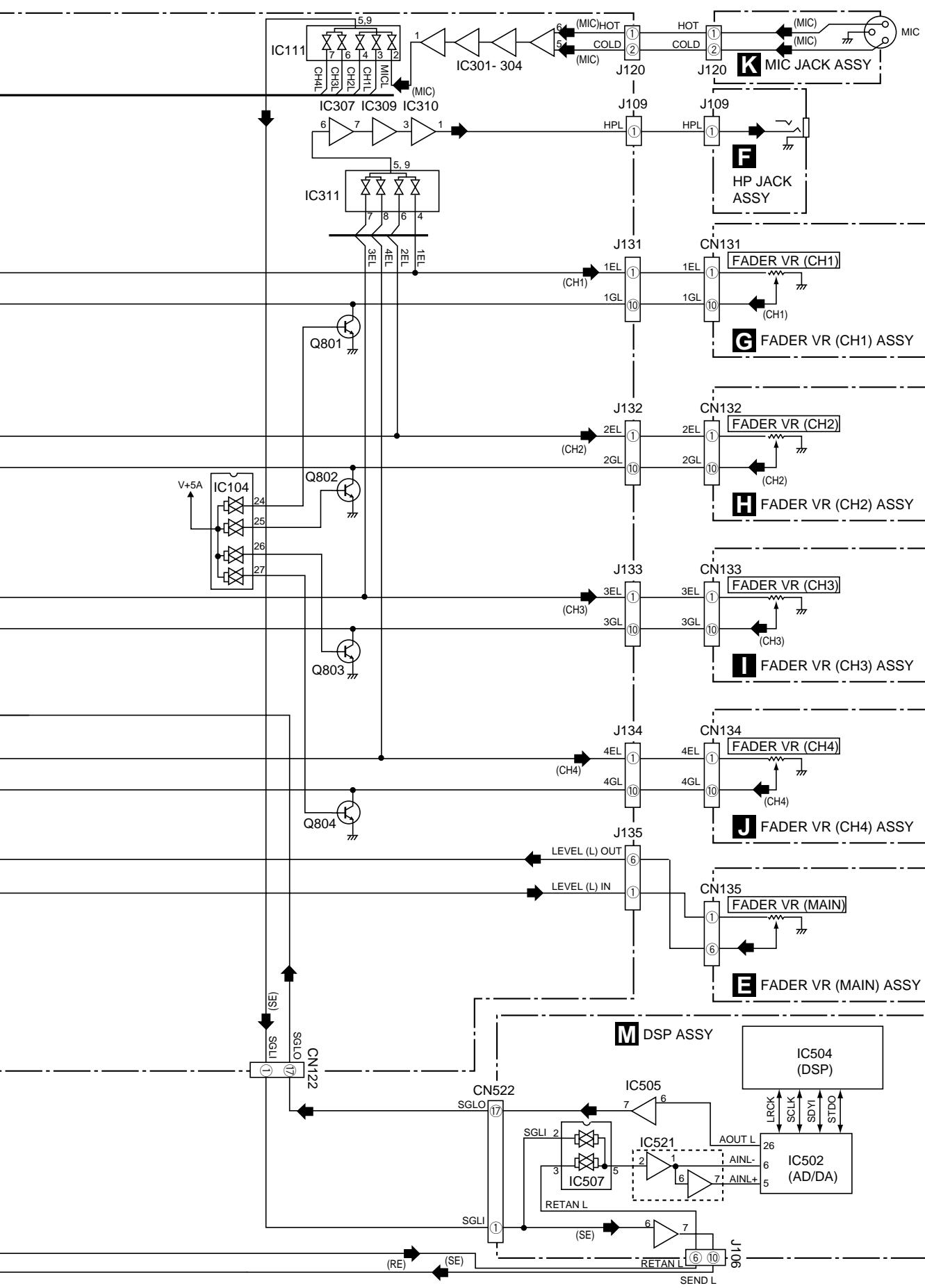
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

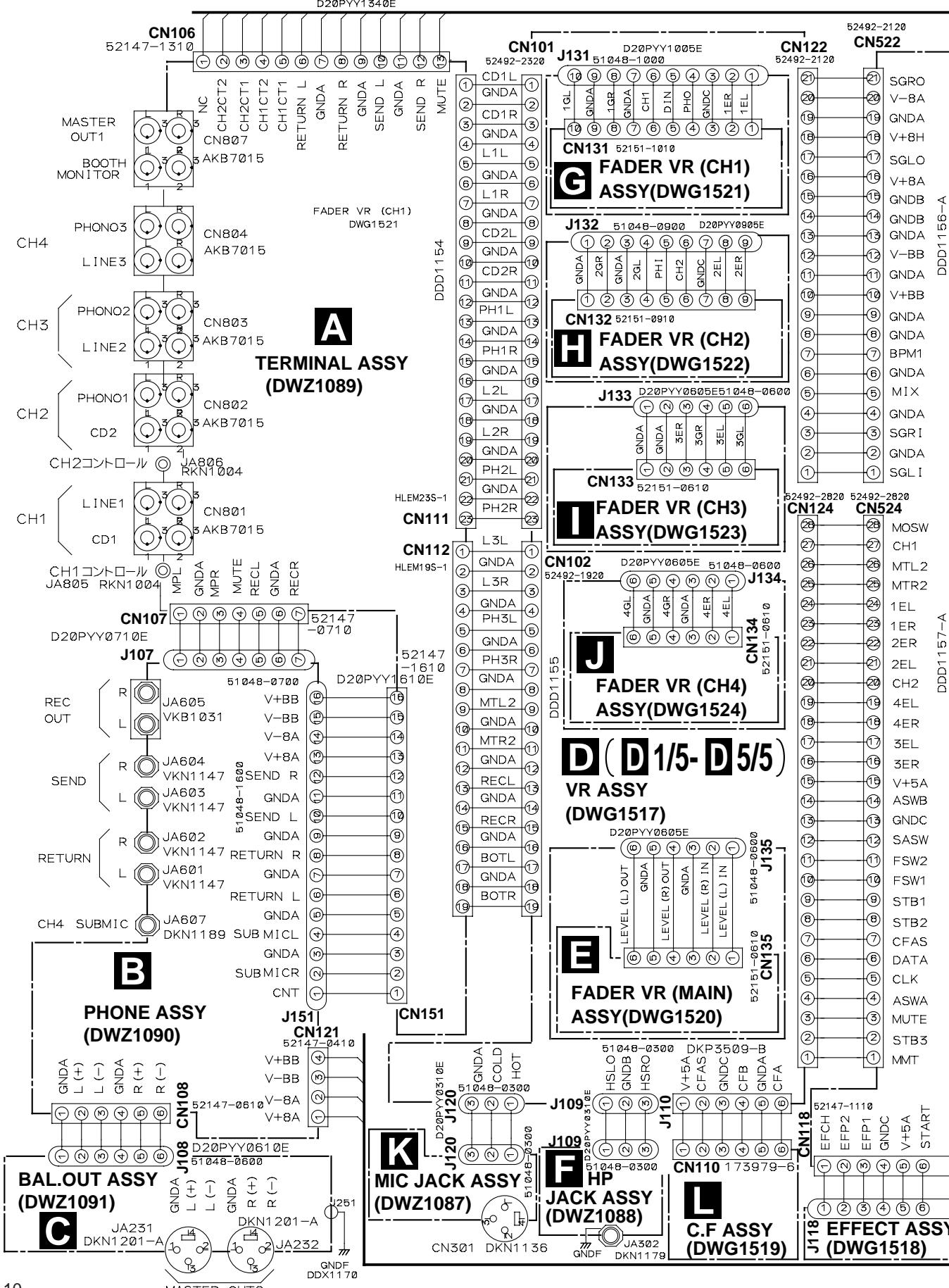
A

SIGNAL ROUTE	
(LI1)	: LINE1 SIGNAL (CD2)
(LI2)	: LINE2 SIGNAL (PH1)
(LI3)	: LINE3 SIGNAL (PH2)
(CD1)	: CD1 SIGNAL (PH3)
(MIC)	: MIC SIGNAL
(SE)	: SEND SIGNAL (SUM)
	: AUDIO SIGNAL
	: RETURN SIGNAL

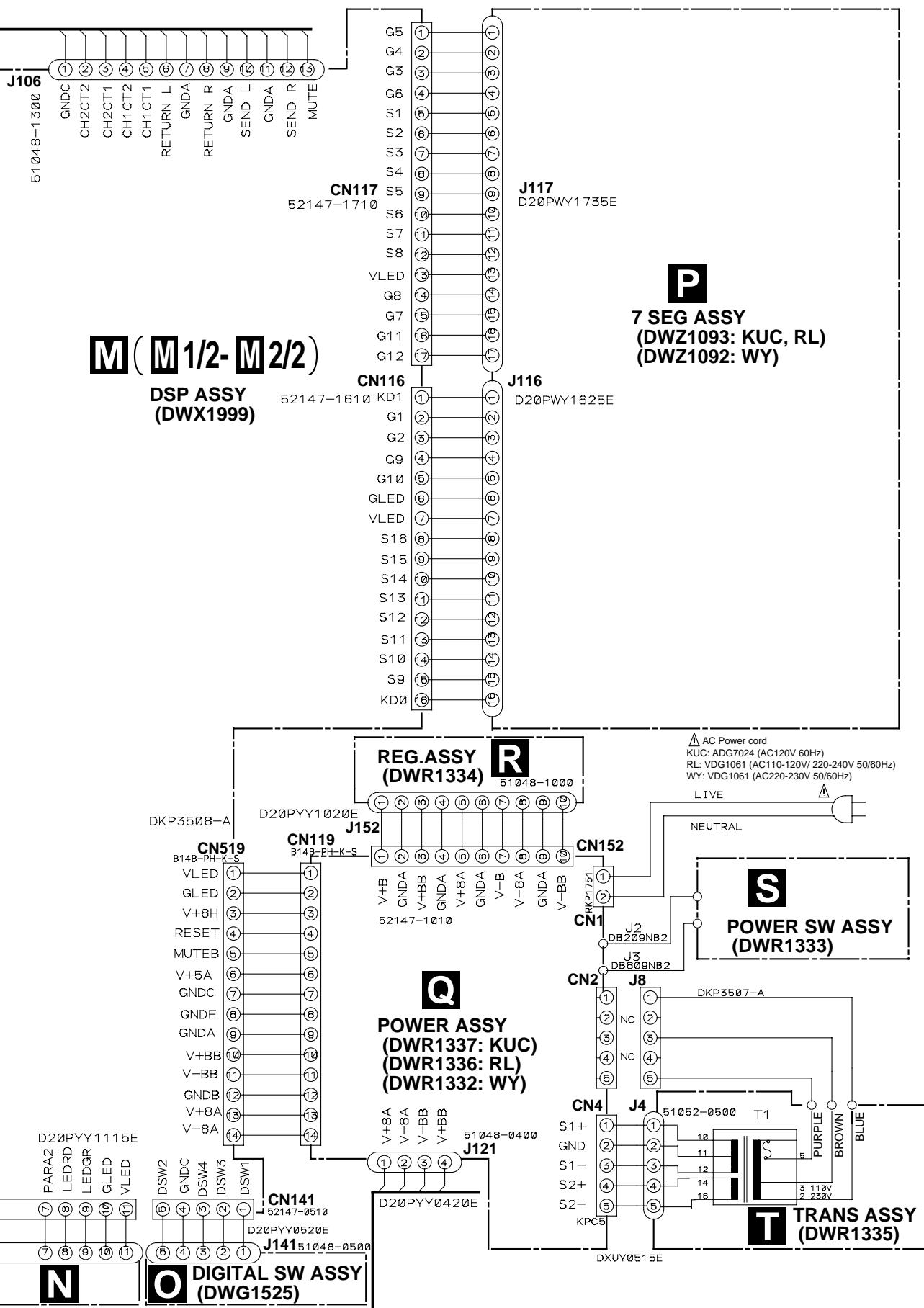


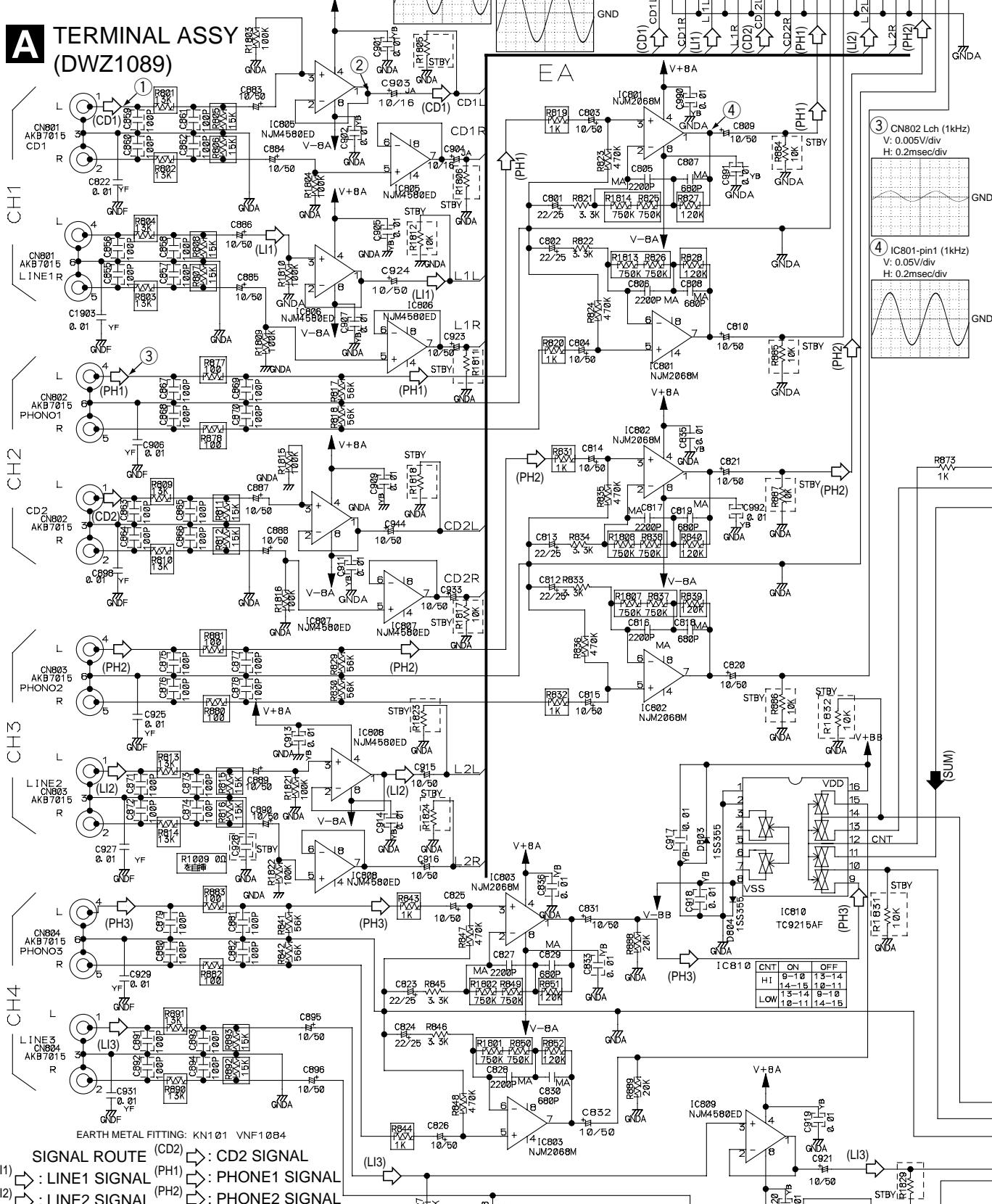


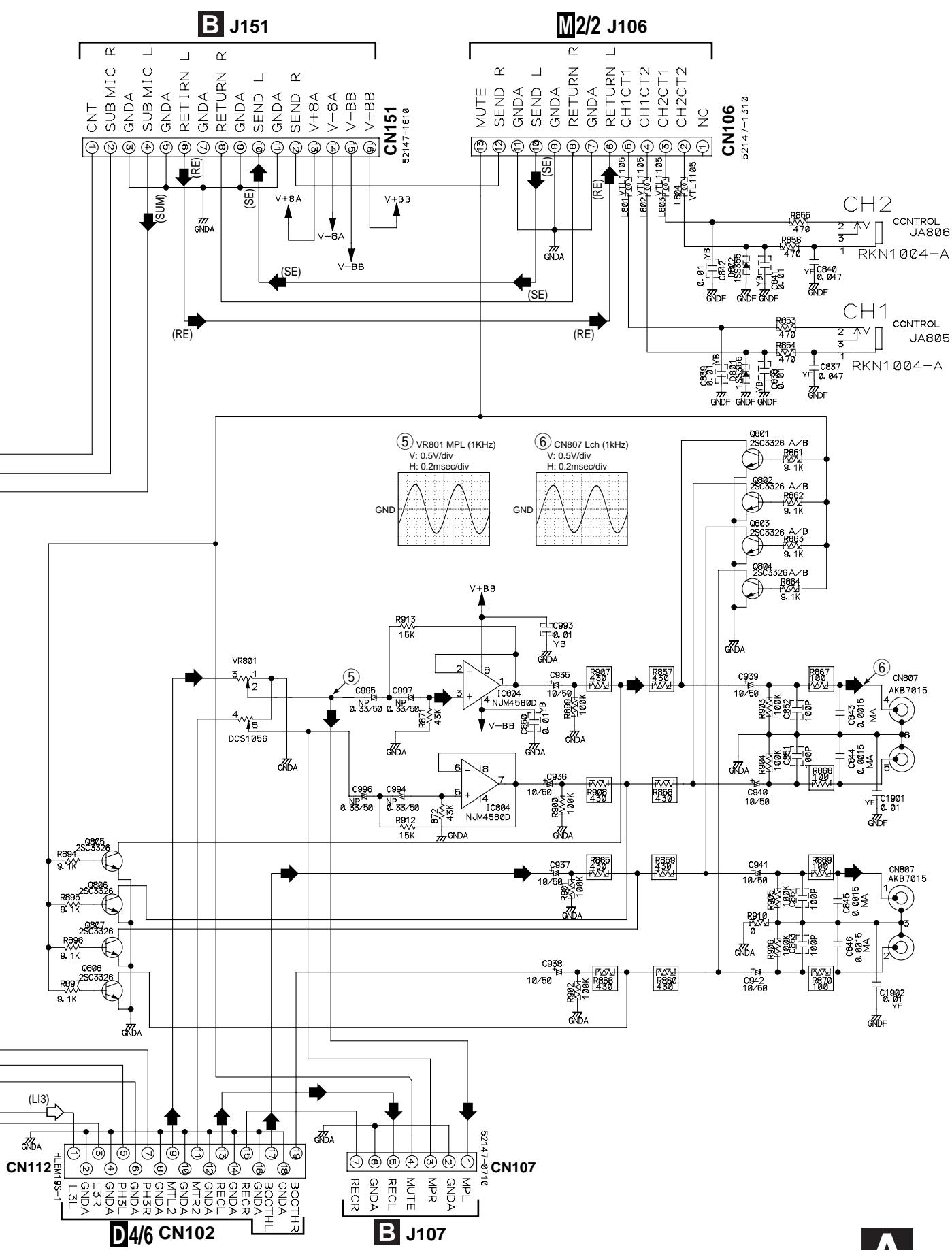
3.2 OVERALL CONNECTION DIAGRAM

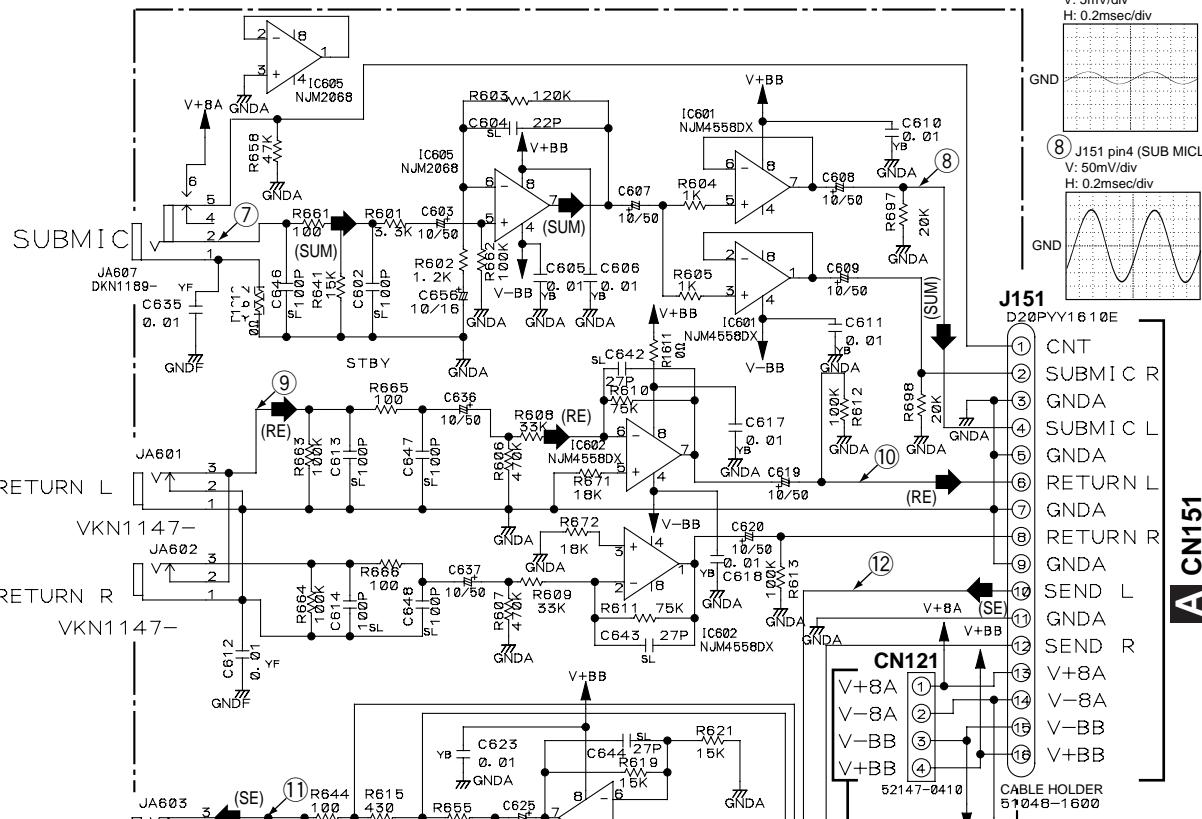
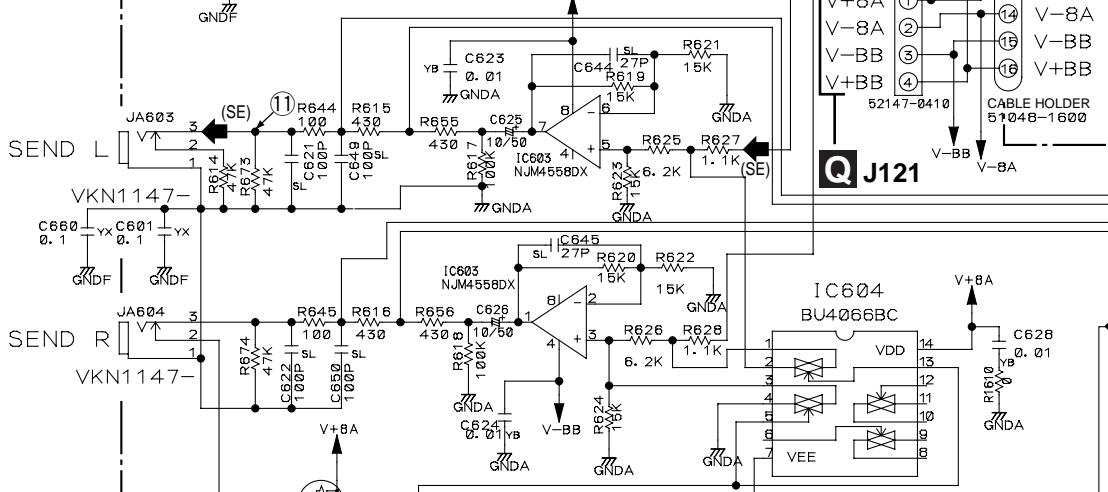
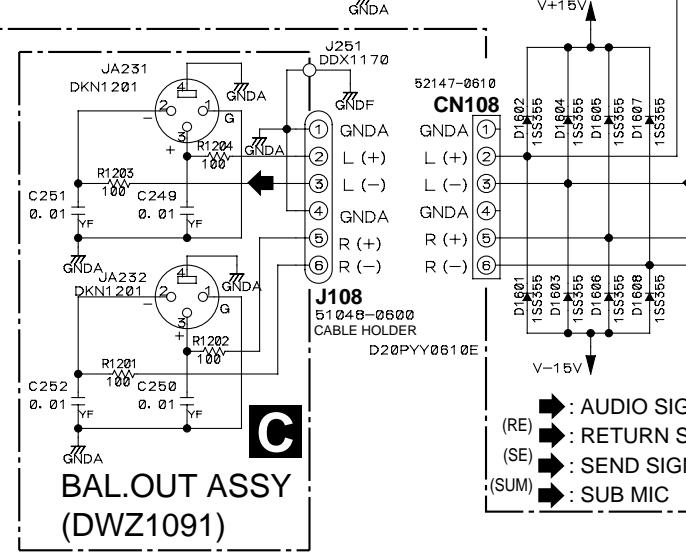
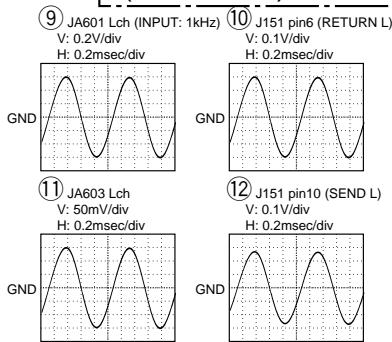


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



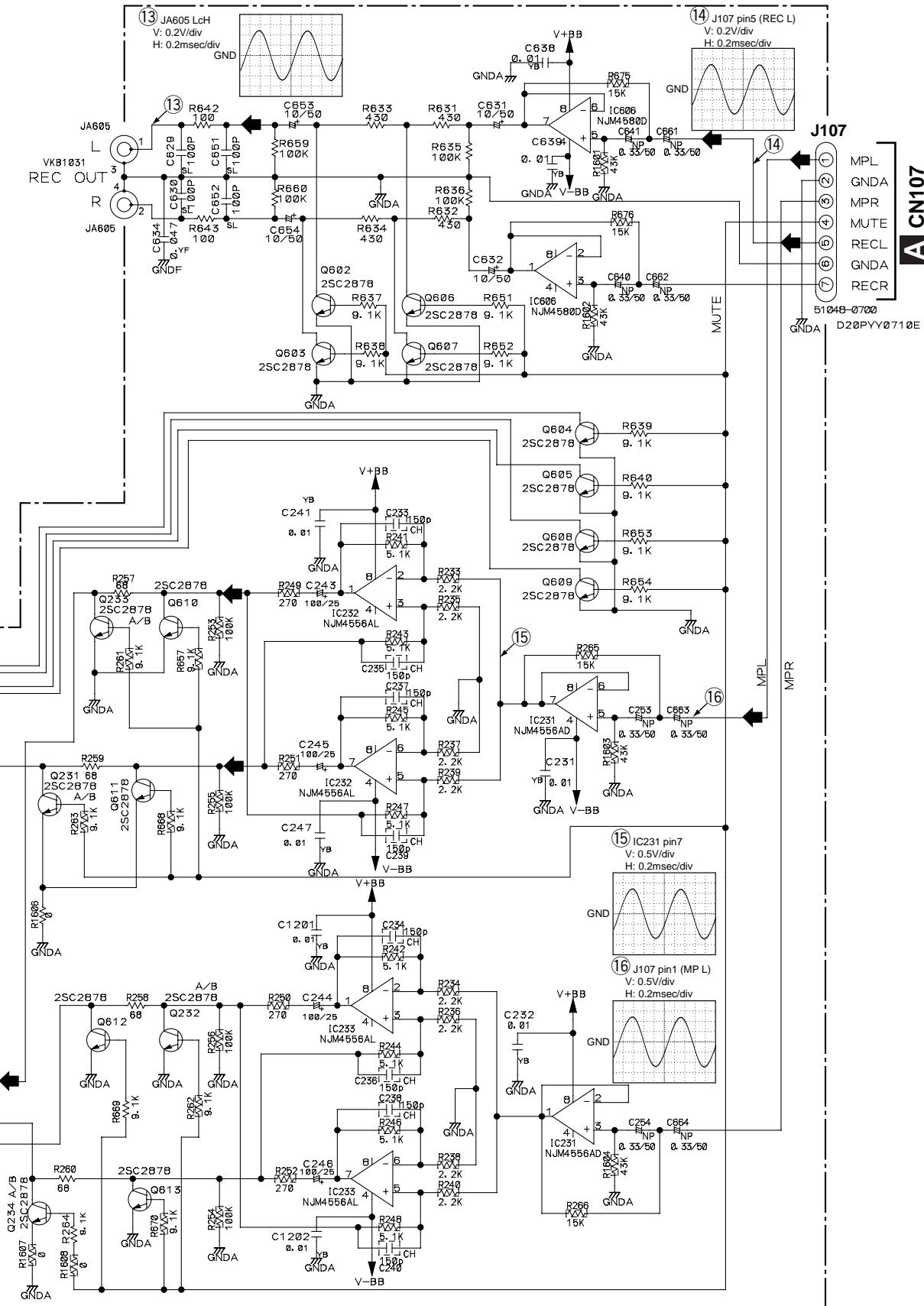
DJM-600**3.3 TERMINAL ASSY****A TERMINAL ASSY
(DWZ1089)**



3.4 PHONE and BAL. OUT ASSYS**A CN151****PHONE ASSY
(DWZ1090)****BAL. OUT ASSY
(DWZ1091)**

MASTER OUT2

→ : AUDIO SIGNAL
(RE) → : RETURN SIGNAL
(SE) → : SEND SIGNAL
(SUM) → : SUB MIC

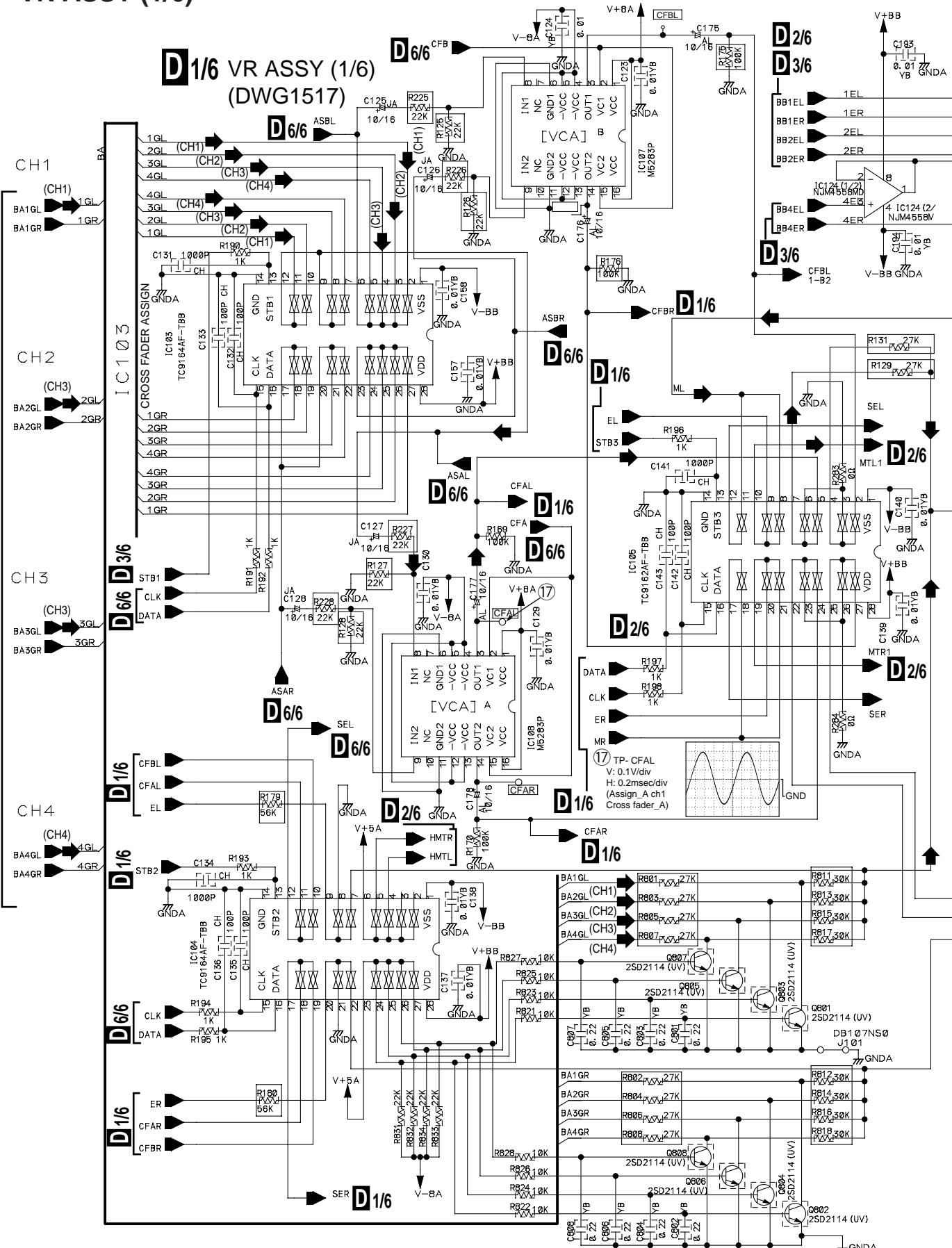


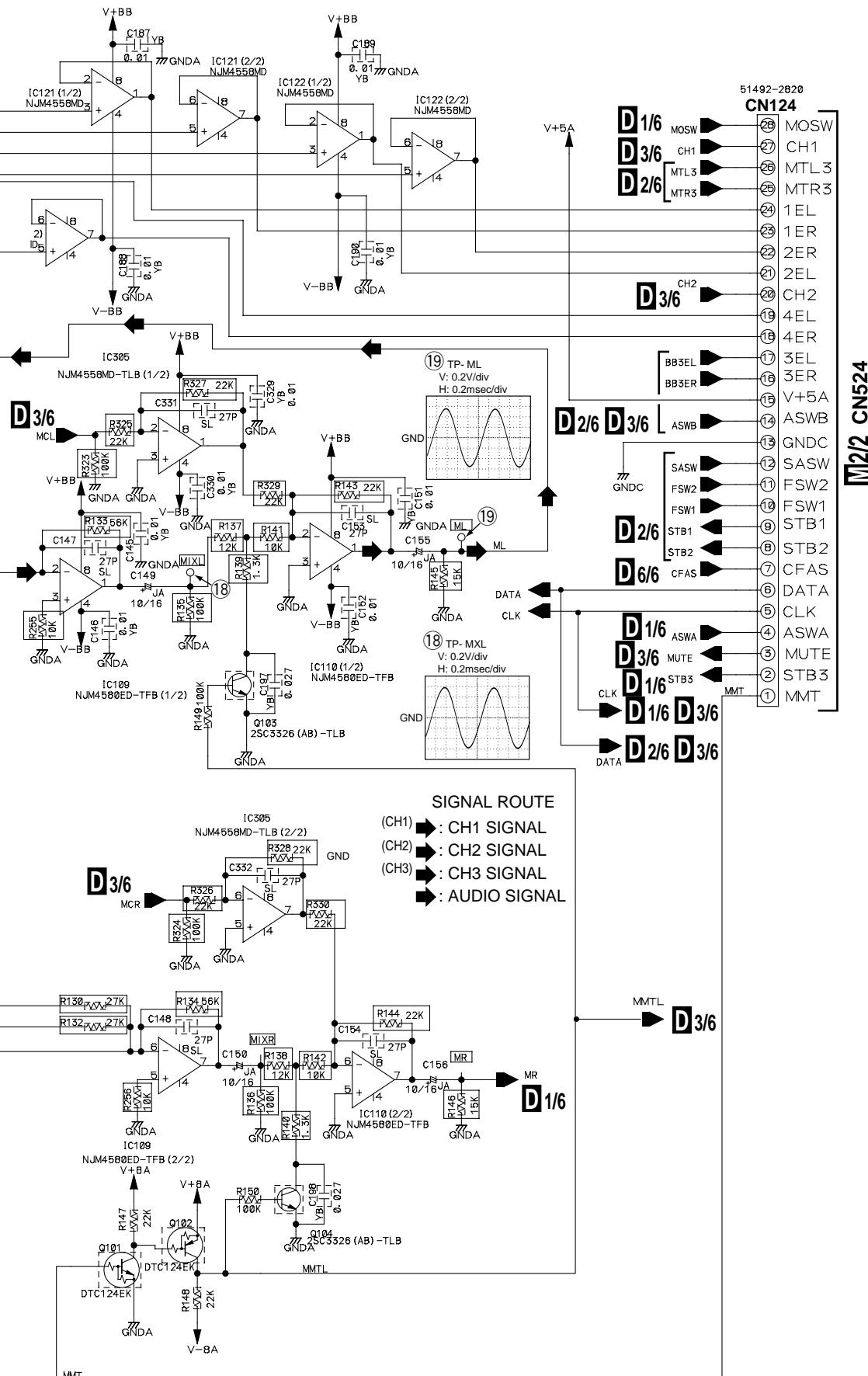
B

15

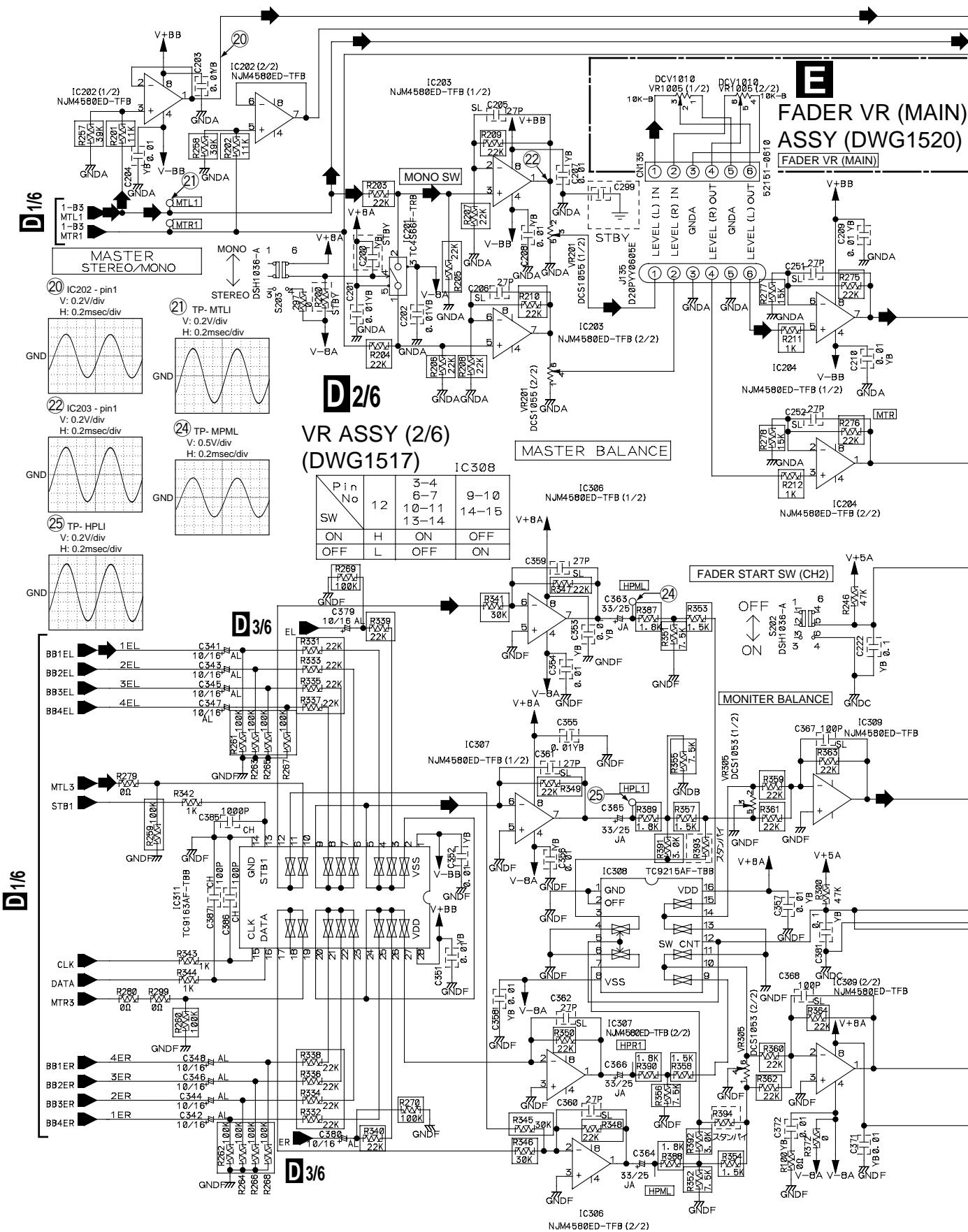
3.5 VR ASSY (1/6)

A

D 1/6 VR ASSY (1/6)
(DWG1517)



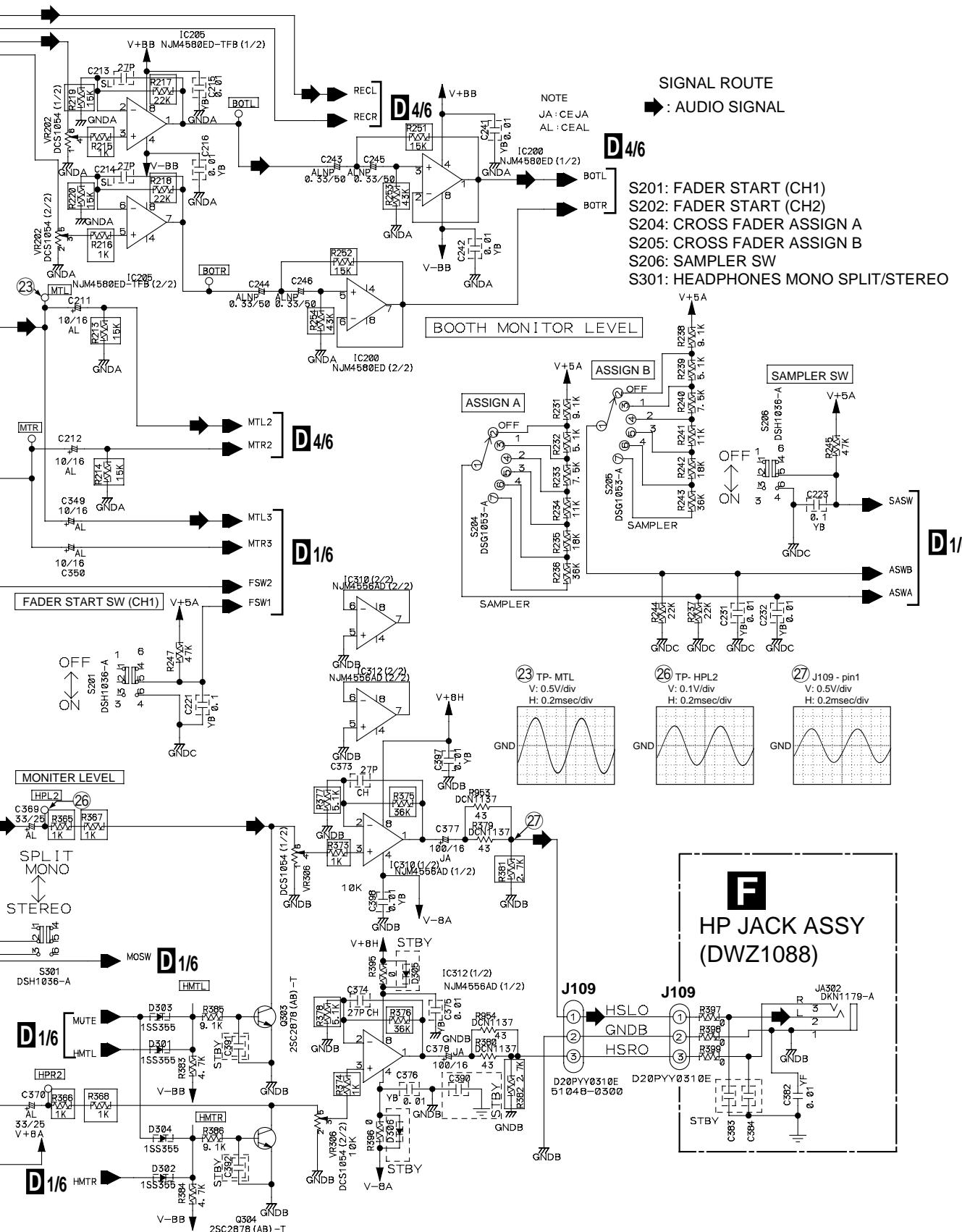
3.6 VR (2/6), FADER VR (MAIN) and HP JACK ASSYS



18

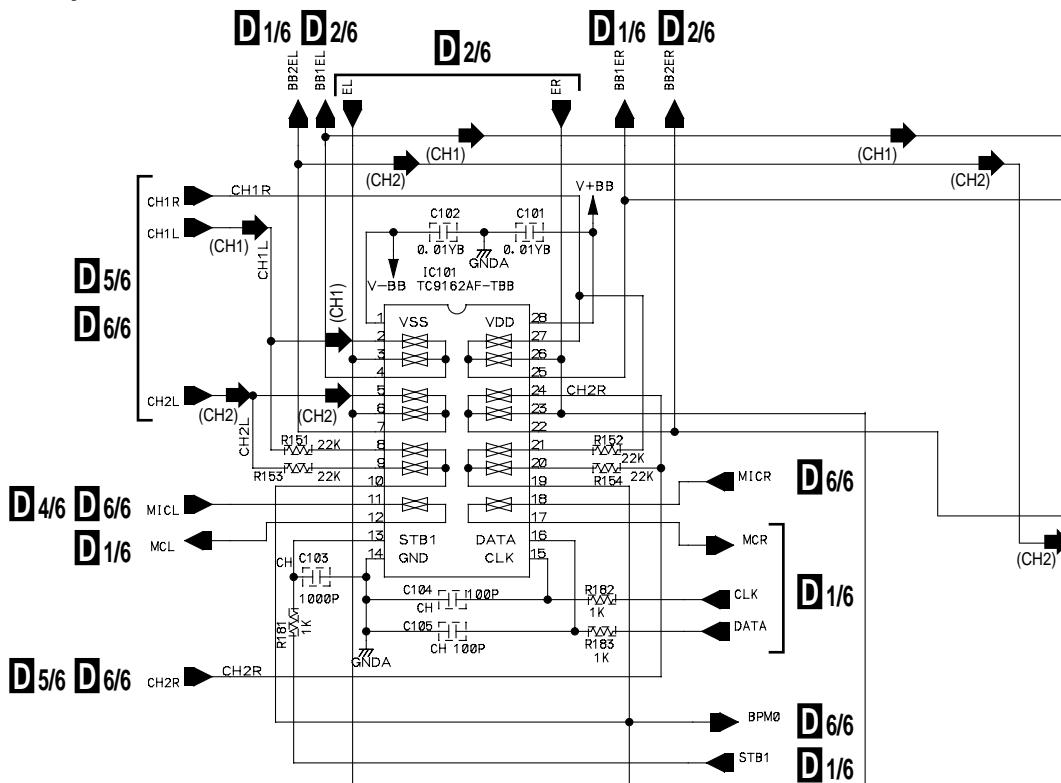
D 2/6 E

1



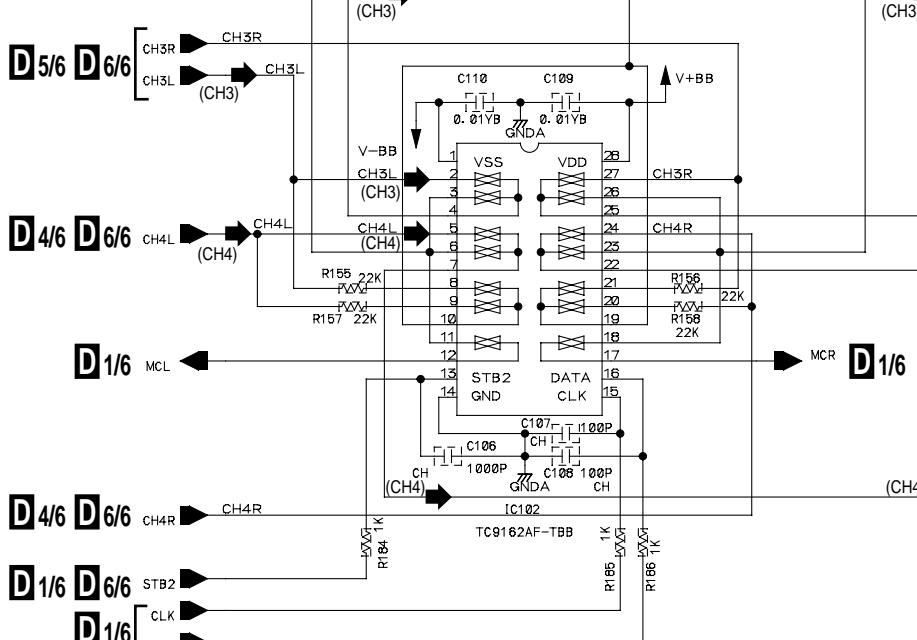
3.7 VR (3/6), FADER VR (CH1), FADER VR (CH2), FADER VR (CH3) and FADER VR (CH4) ASSYS

A

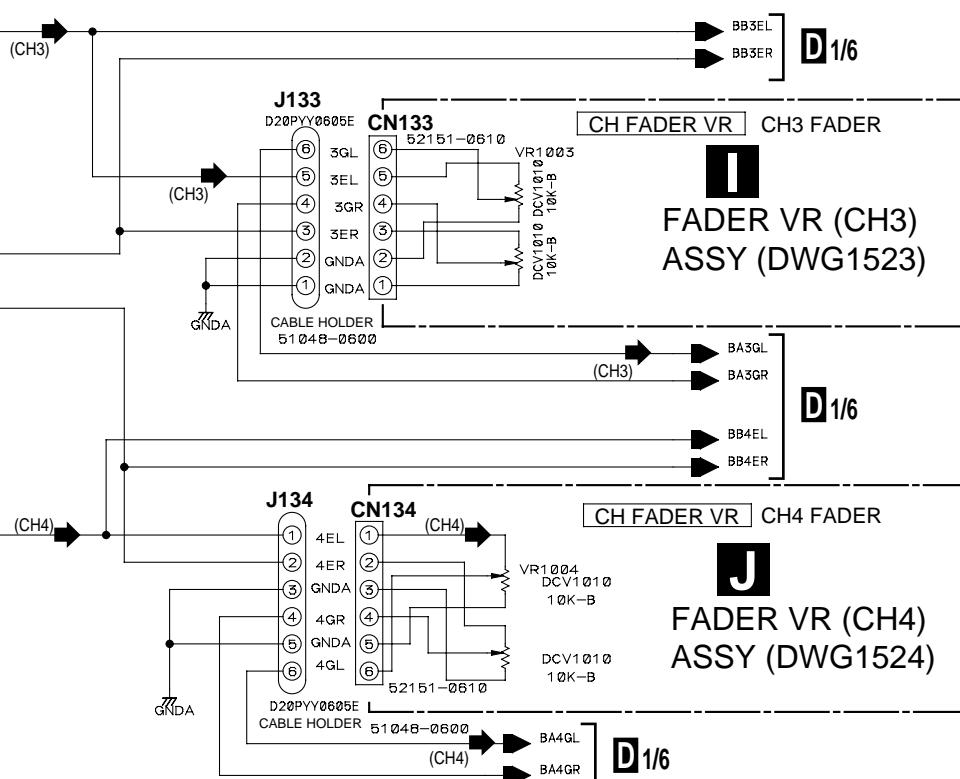
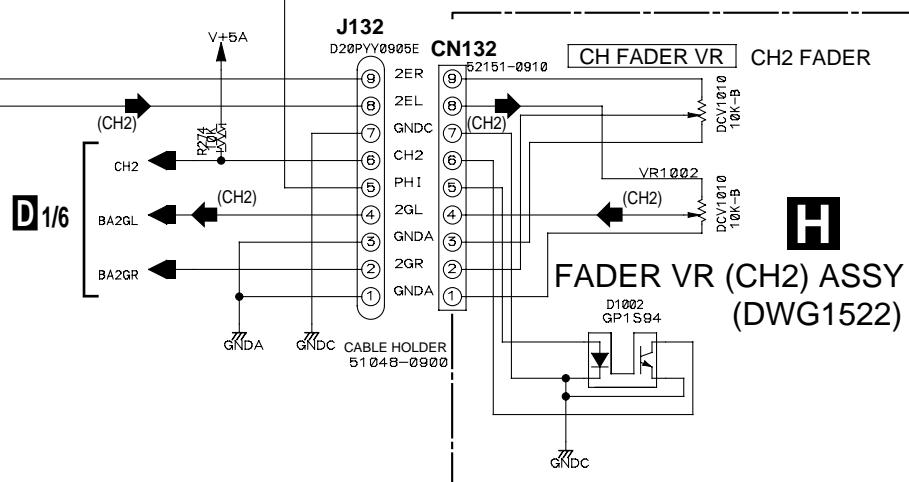
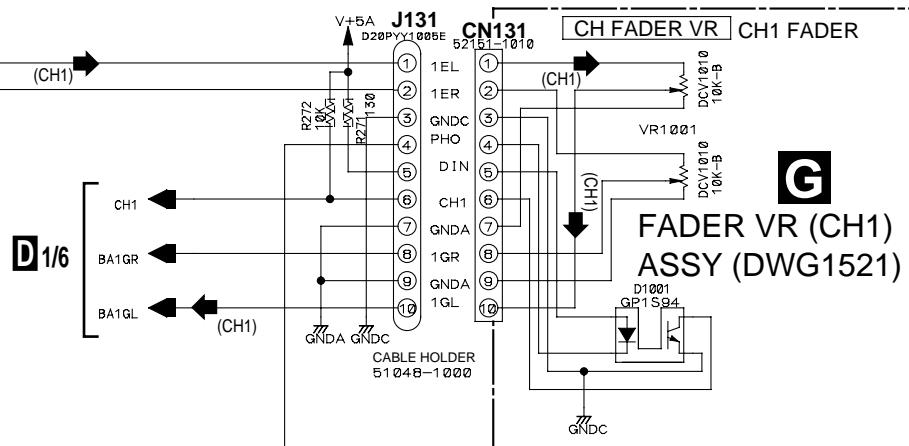


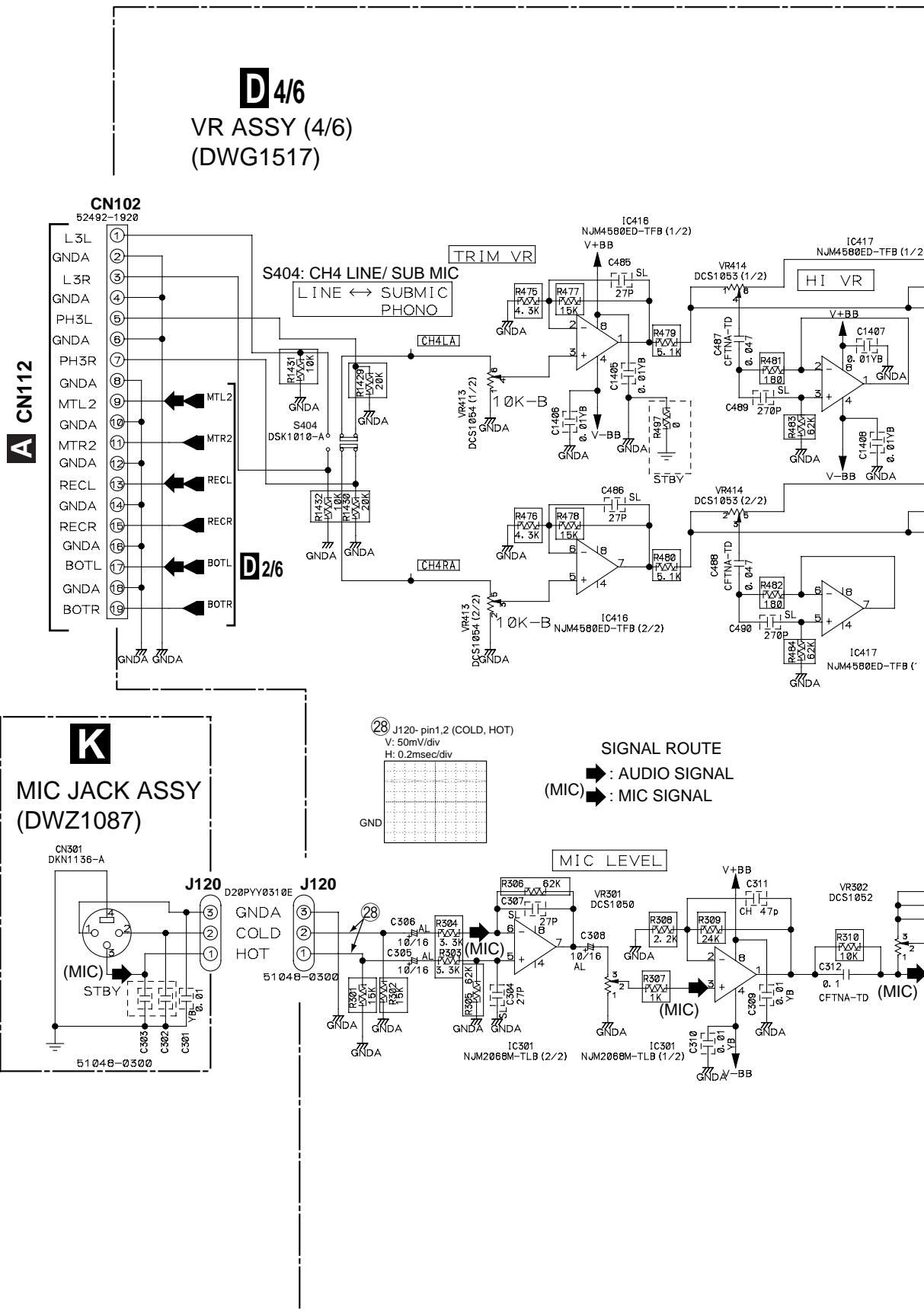
D 3/6
VR ASSY (3/6)
(DWG1517)

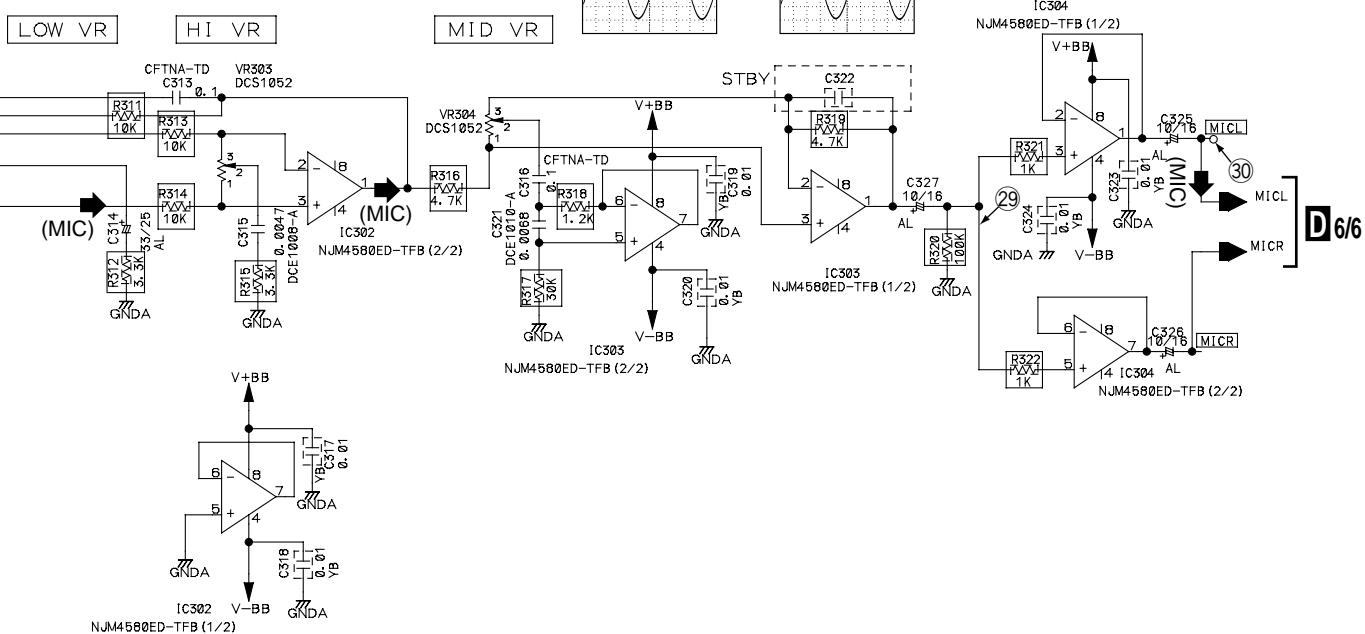
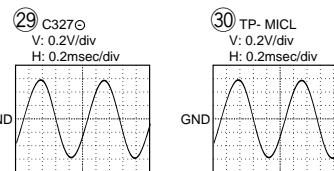
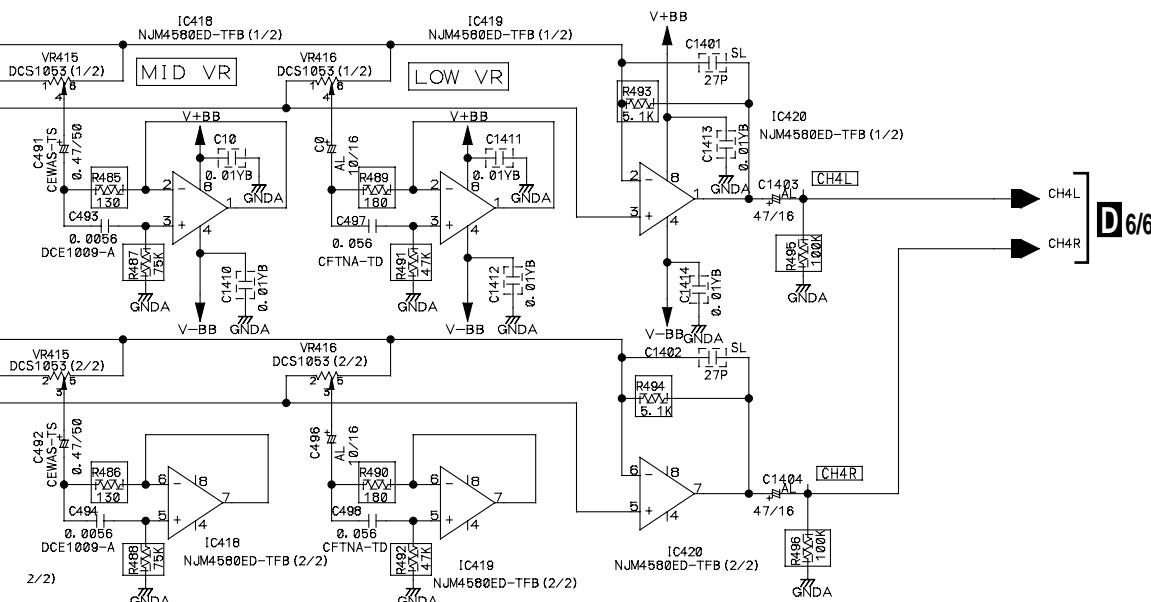
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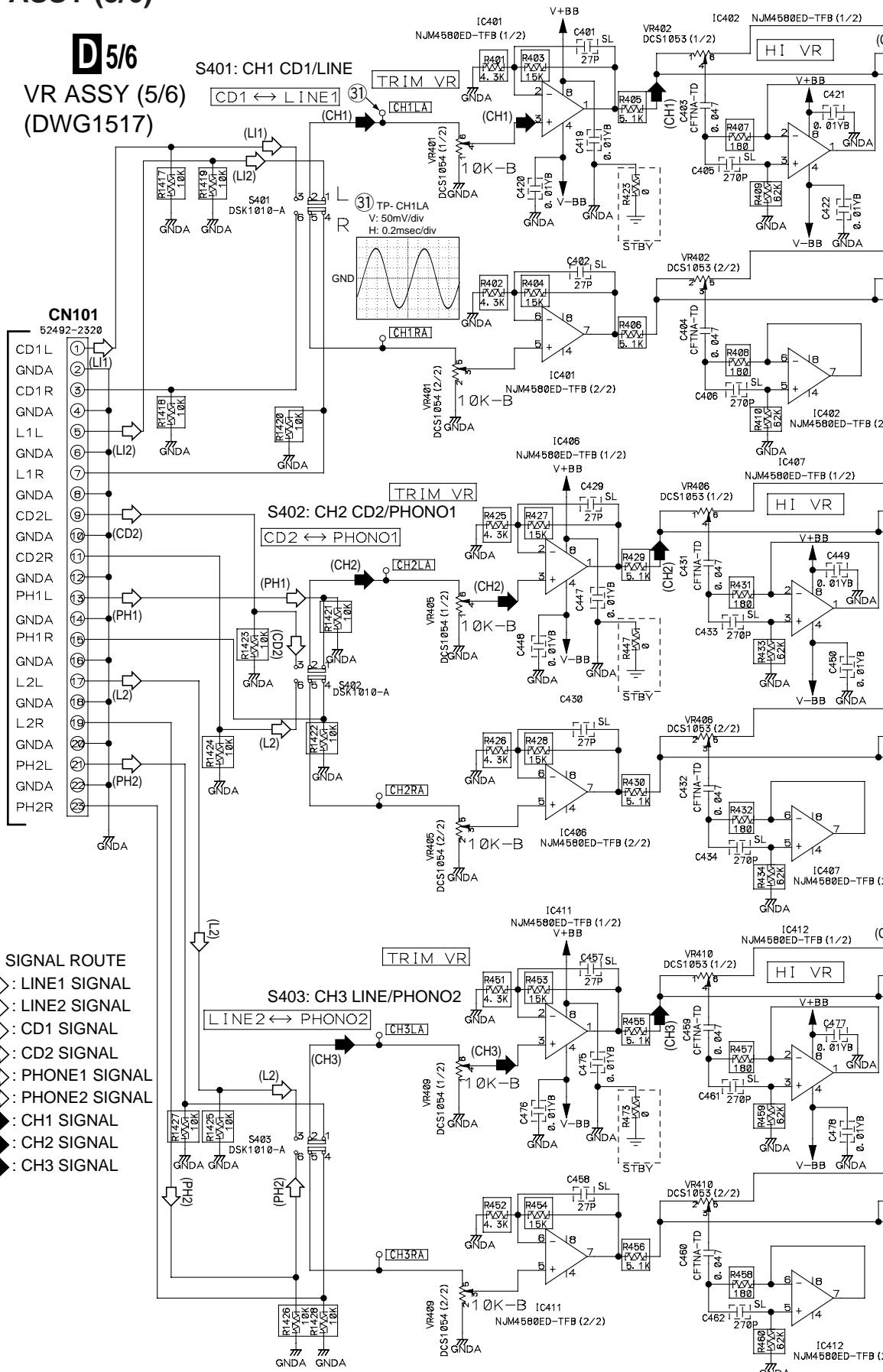


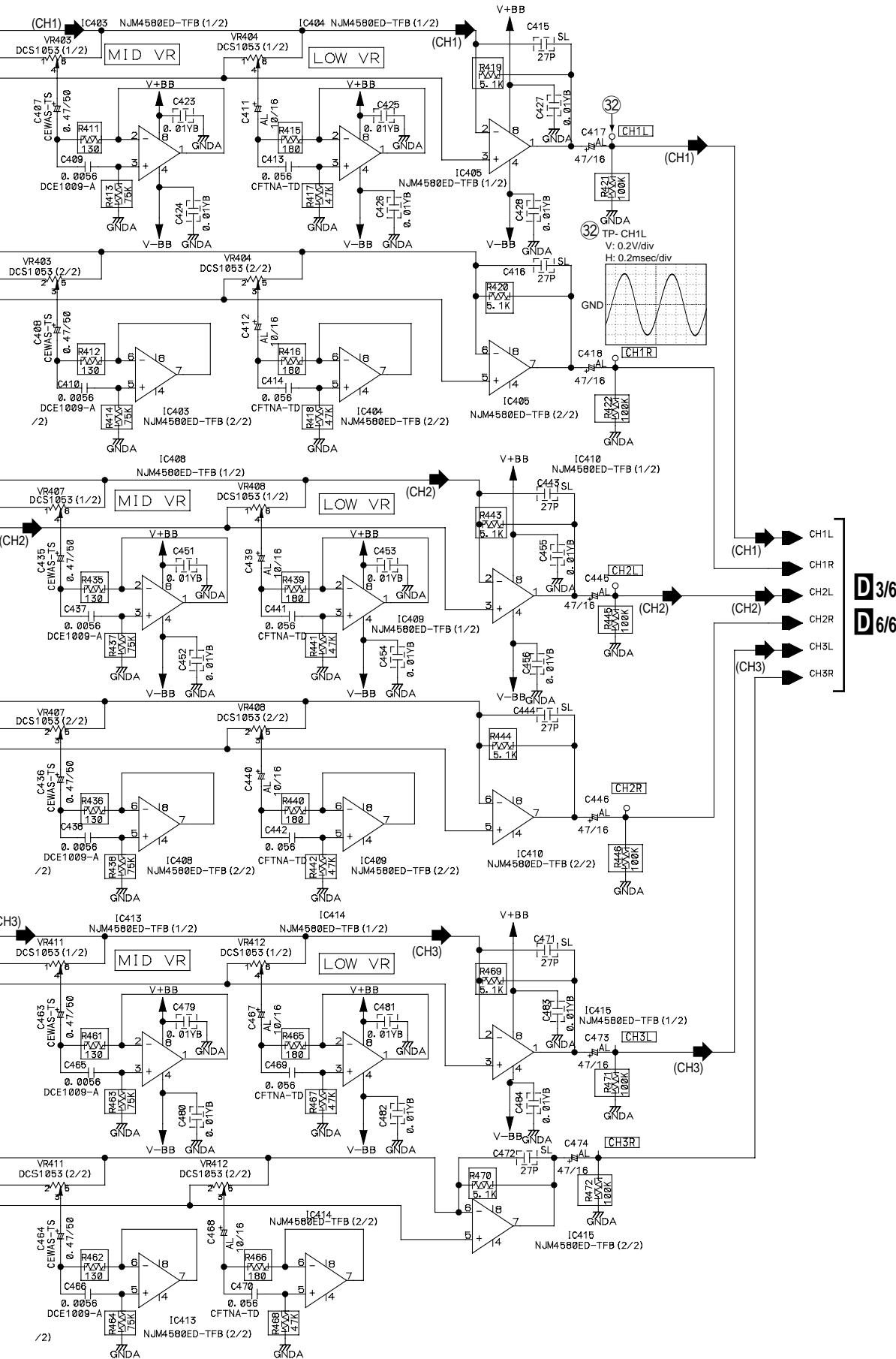
D 3/6



DJM-600**3.8 VR (4/6) and MIC JACK ASSYS**

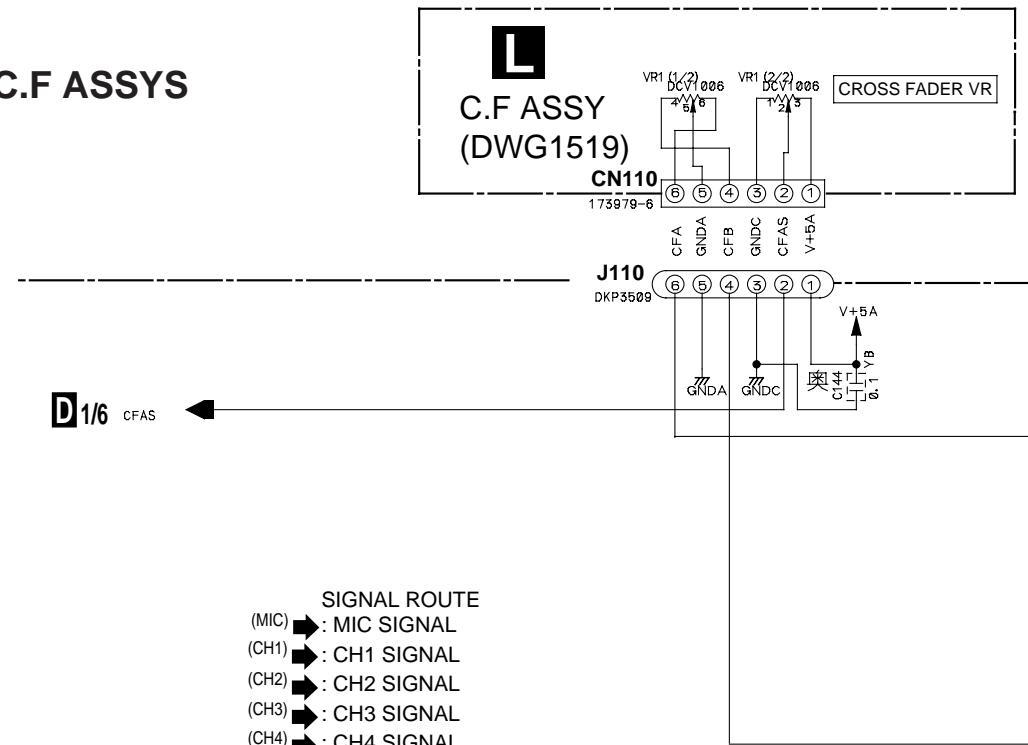


3.9 VR ASSY (5/6)**D 5/6****VR ASSY (5/6)
(DWG1517)****A CN111**

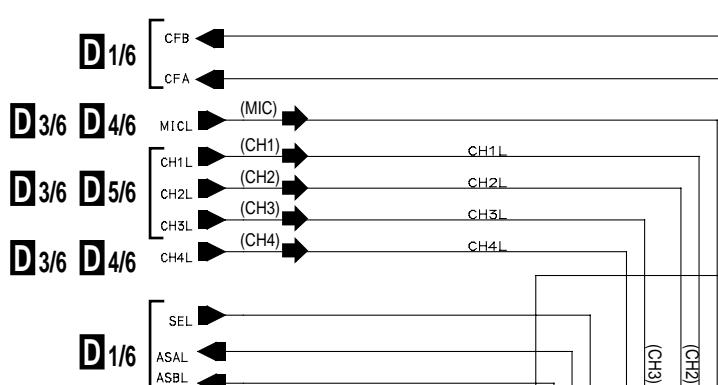


3.10 VR (6/6) and C.F ASSYS

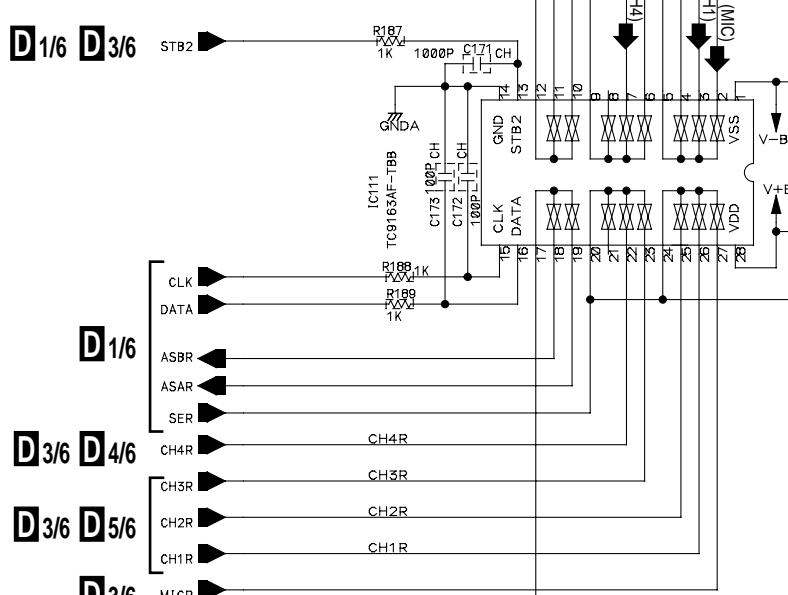
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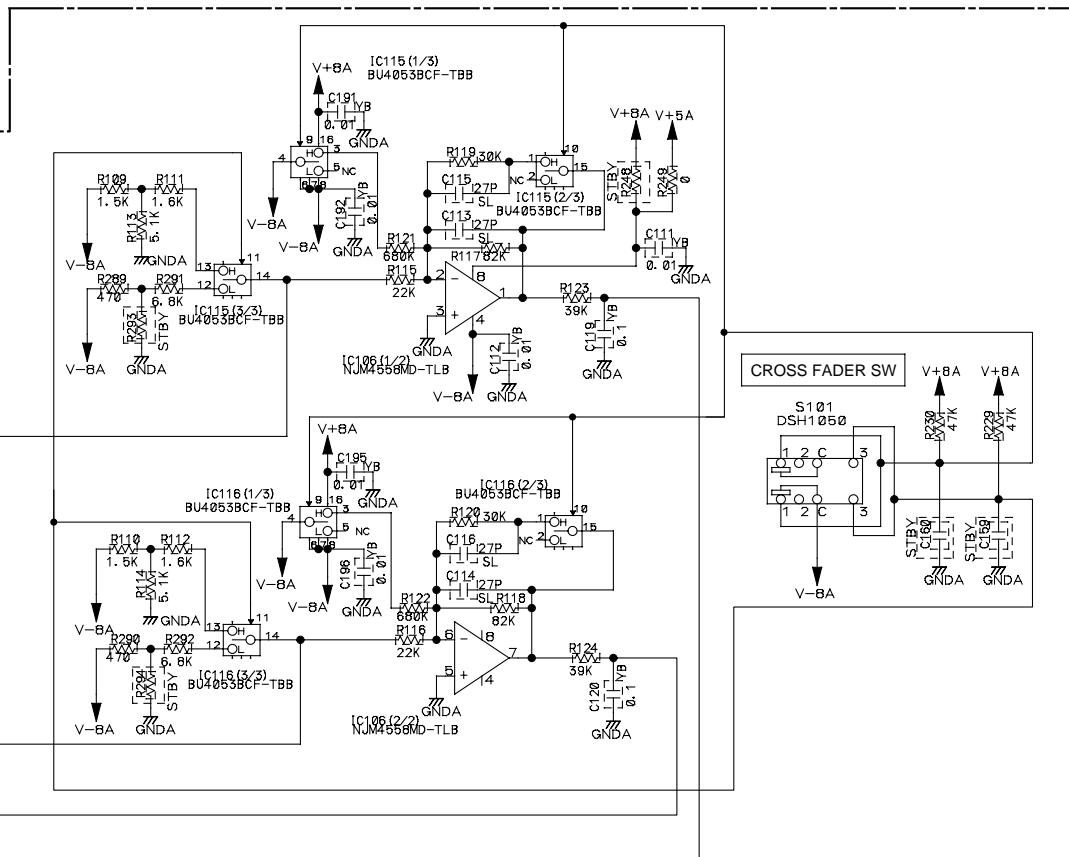
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C

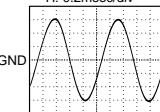


D

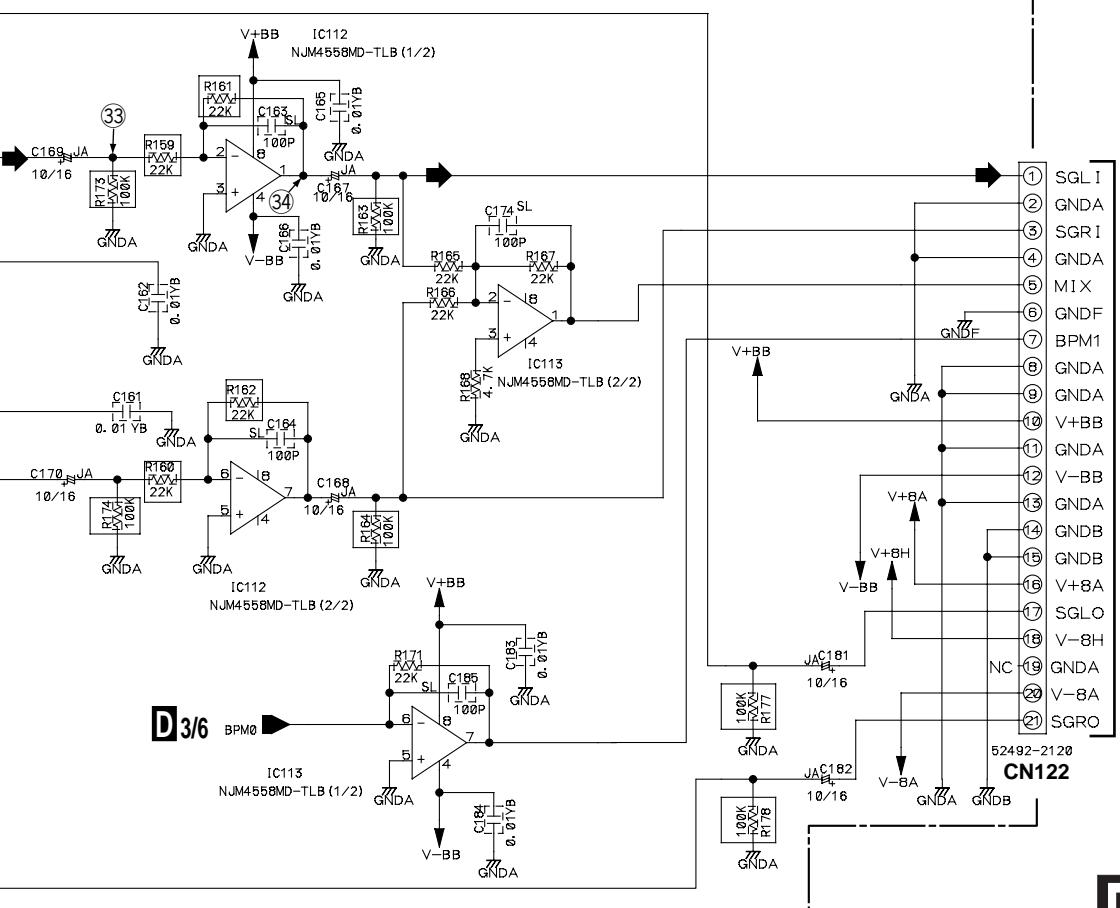
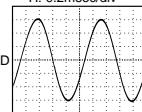


D 6/6
VR ASSY (6/6)
(DWG1517)

33 IC111 pin5
V: 0.2V/div
H: 0.2msec/div



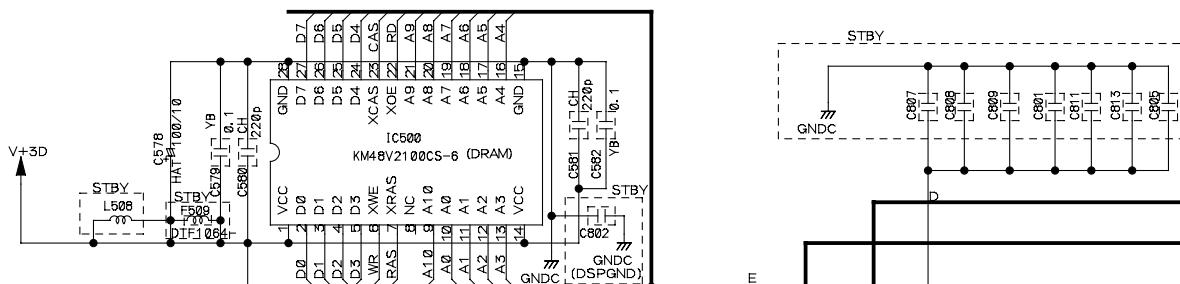
34 IC112 pin-1
V: 0.2V/div
H: 0.2msec/div



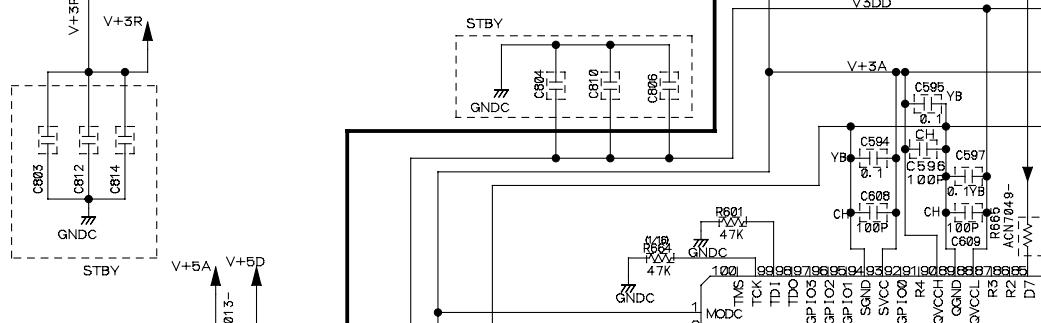
M 1/2 CN522

DJM-600**3.11 DSP ASSY (1/2)**

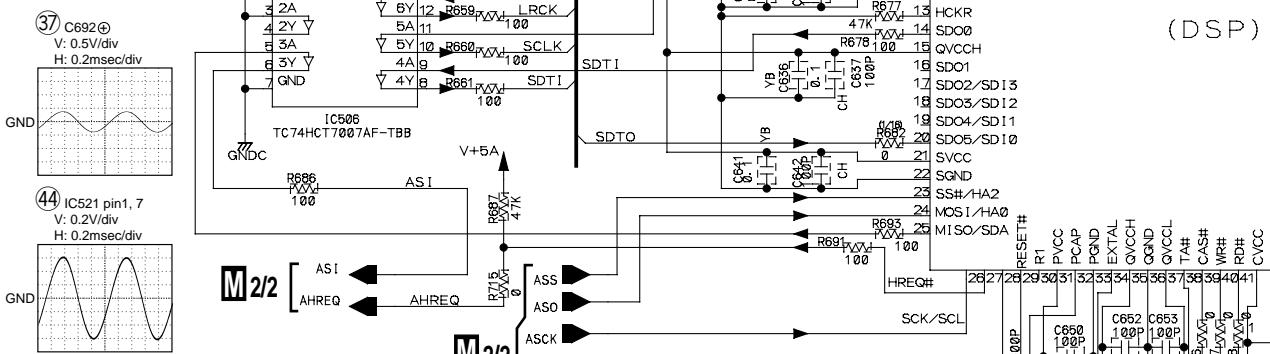
A



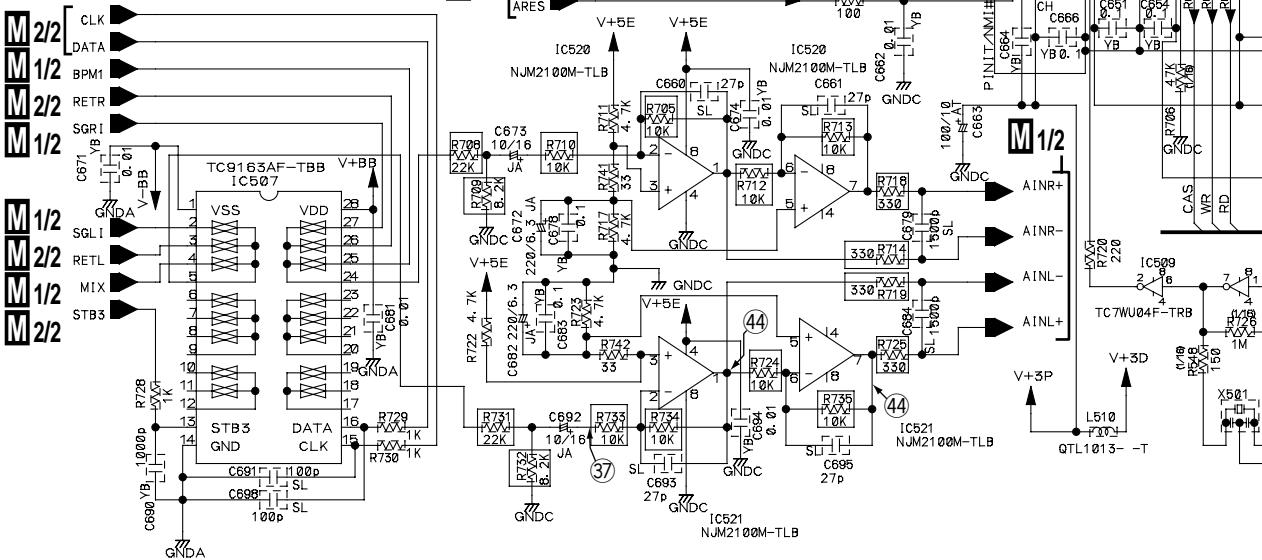
B

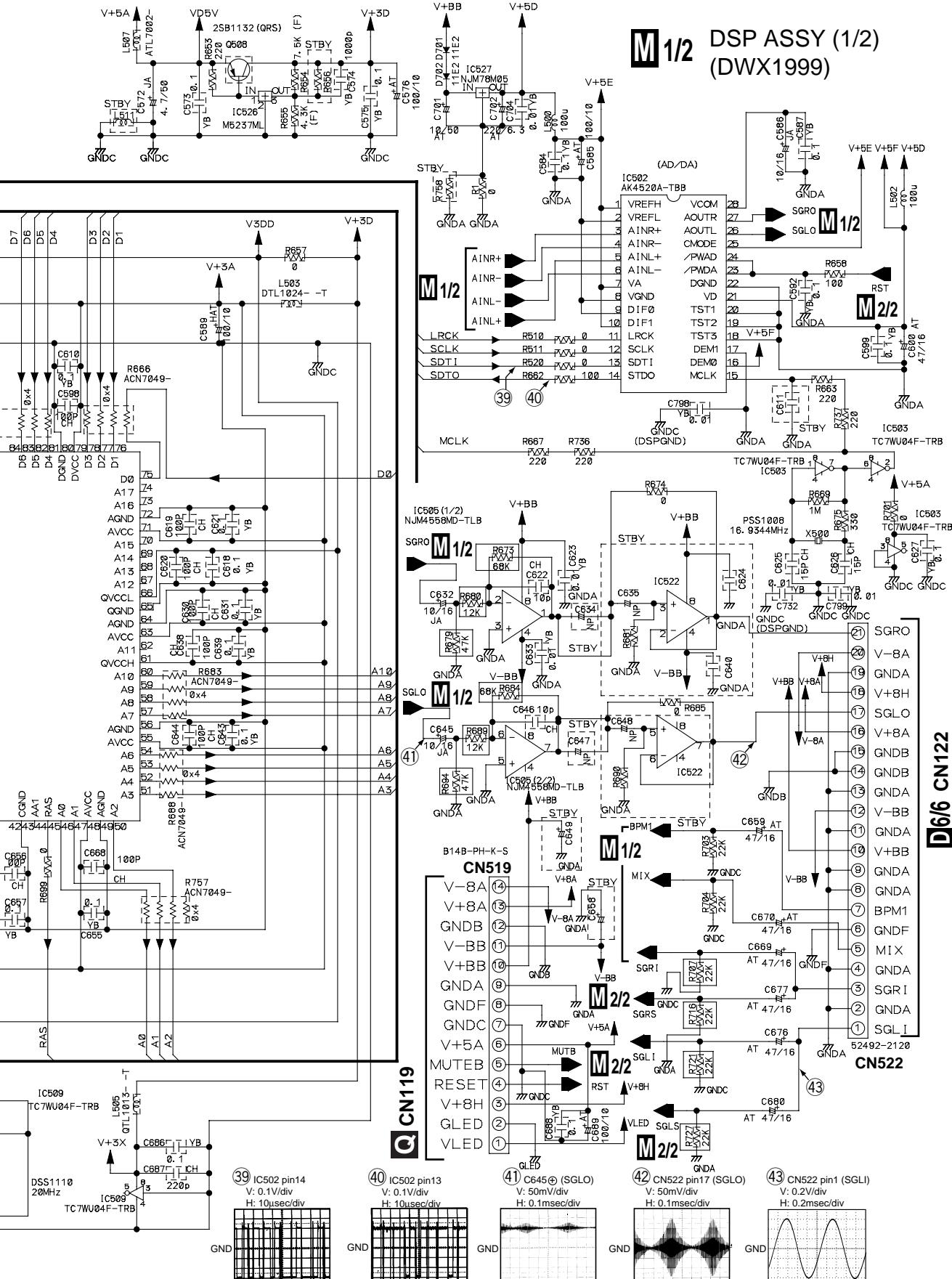


C

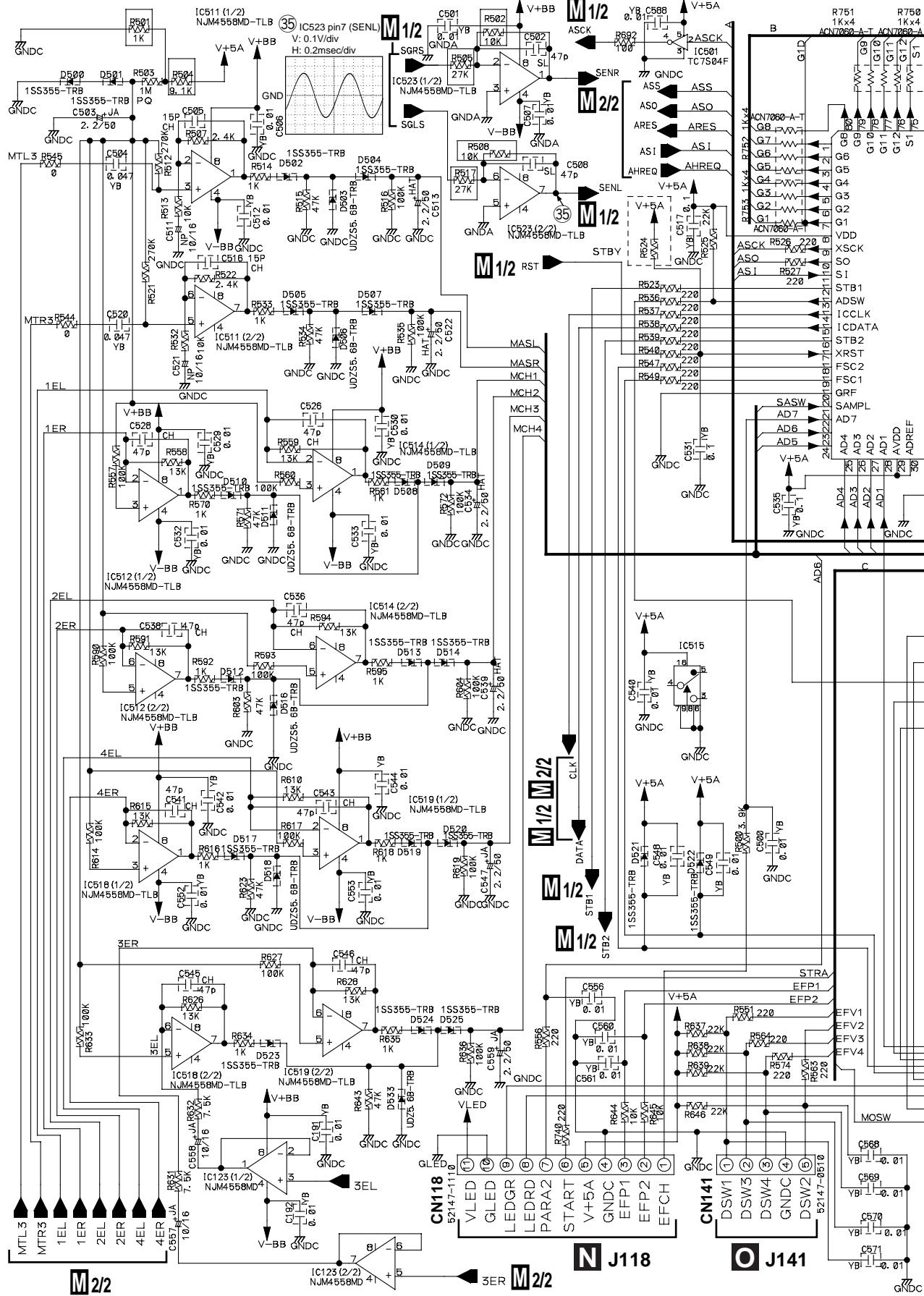


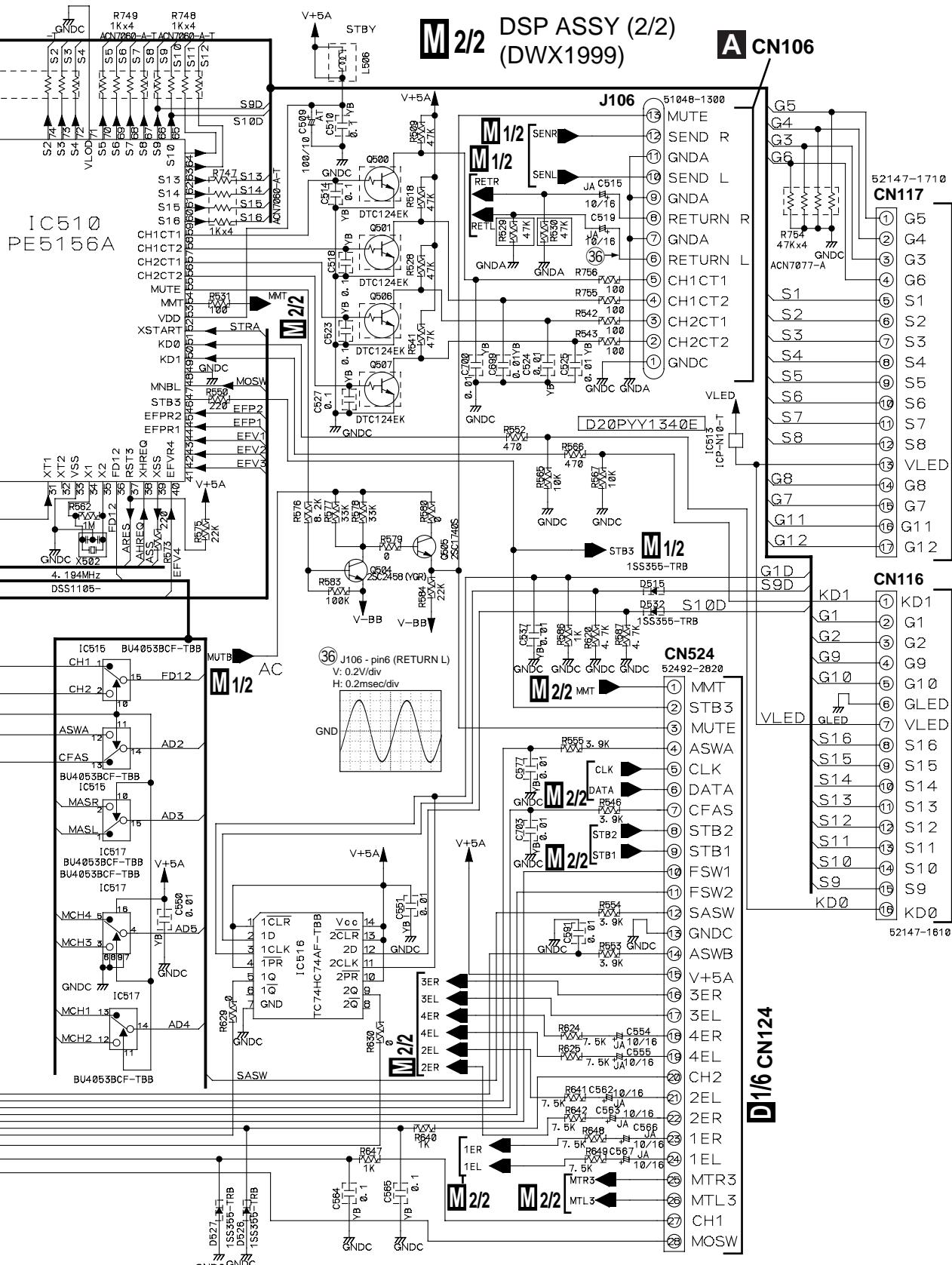
D





3.12 DSP ASSY (2/2)





Voltages**M 1/2 DSP ASSY**

IC500	
PIN NO.	VOLTAGE
1	3.44V
2	1.60V
3	1.60V
4	1.60V
5	1.60V
6	3.37V
7	3.33V
8	0V
9	1.76V
10	3.26V
11	3.17V
12	1.73V
13	1.73V
14	3.44V
15	21.5mV
16	1.73V
17	1.70V
18	1.75V
19	1.75V
20	1.69V
21	1.75V
22	3.37V
23	3.38V
24	1.65V
25	1.60V
26	1.60V
27	1.60V
28	21.5mV

IC503	
PIN NO.	VOLTAGE
1	25.3V
2	24.6V
3	13.1mV
4	13.1mV
5	4.97V
6	2.56V
7	2.56V
8	4.97V

IC505	
PIN NO.	VOLTAGE
1	10.1mV
2	12.0mV
3	12.0mV
4	-15.1V
5	12.4mV
6	12.4mV
7	11.6mV
8	14.8V

IC509	
PIN NO.	VOLTAGE
1	1.68V
2	1.75V
3	23.0mV
4	23.0mV
5	3.44V
6	1.82V
7	1.82V
8	3.44V

IC504			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	3.44V	51	1.73V
2	23.9mV	52	1.73V
3	3.44V	53	1.73V
4	1.73V	54	1.73V
5	24.2mV	55	3.44V
6	1.77V	56	24.0mV
7	24.2mV	57	1.76V
8	3.44V	58	1.76V
9	24.0mV	59	1.76V
10	2.45V	60	1.76V
11	3.43V	61	3.44V
12	24.5mV	62	1.76V
13	24.9mV	63	3.44V
14	24.9mV	64	24.7mV
15	3.44V	65	24.8mV
16	697mV	66	3.44V
17	-	67	1.73V
18	550mV	68	1.73V
19	1.55V	69	-
20	3.44V	70	-
21	23.8mV	71	3.44V
22	4.89V	72	24.0mV
23	17.2mV	73	-
24	520mV	74	3.44V
25	-	75	1.67V
26	18.9mV	76	1.65V
27	52.3mV	77	1.65V
28	23.8mV	78	1.65V
29	4.95V	79	3.44V
30	3.44V	80	24.6mV
31	23.5mV	81	1.65V
32	1.33V	82	1.65V
33	23.5mV	83	1.65V
34	3.44V	84	1.65V
35	24.9mV	85	0V
36	24.9mV	86	0V
37	3.43V	87	3.44V
38	25.8mV	88	2.44mV
39	3.37V	89	3.44V
40	3.37V	90	0V
41	3.37V	91	3.44V
42	3.44V	92	3.44V
43	197mV	93	24.3mV
44	3.44V	94	3.44V
45	3.33V	95	1.09V
46	3.26V	96	1.09V
47	3.17V	97	1.06V
48	3.44mV	98	1.68V
49	26.0mV	99	1.67V
50	1.73V	100	3.42V

IC506	
PIN NO.	VOLTAGE
1	13.0mV
2	13.2mV
3	13.0V
4	13.2V
5	2.26V
6	13.5mV
7	0V
8	3.0V
9	2.1V
10	2.48V
11	1.83V
12	2.49V
13	1.74V
14	4.97V

IC520	
PIN NO.	VOLTAGE
1	2.53V
2	2.52V
3	2.52V
4	14.9mV
5	2.50V
6	2.50V
7	2.48V
8	5.01V

IC521	
PIN NO.	VOLTAGE
1	2.52V
2	2.52V
3	2.52V
4	15.0mV
5	2.50V
6	2.50V
7	2.49V
8	5.01V

IC526	
PIN NO.	VOLTAGE
1	1.26V
2	18.4mV
3	4.3V

IC527	
PIN NO.	VOLTAGE
1	5.10V
2	11.1mV
3	13.38V

M2/2 DSP ASSY

IC123	
PIN NO.	VOLTAGE
1	11.9mV
2	11.9mV
3	12.1mV
4	-15.1V
5	12.0mV
6	12.5mV
7	12.5mV
8	14.8V

IC510			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	333mV	41	4.95V
2	328mV	42	13.5mV
3	617mV	43	4.95V
4	328mV	44	4.96V
5	328mV	45	4.96V
6	333mV	46	15.9mV
7	317mV	47	4.93V
8	4.96V	48	14.0mV
9	4.96V	49	14.2mV
10	17.3mV	50	14.2mV
11	17.2mV	51	4.96V
12	17.2mV	52	4.96V
13	43.7mV	53	12mV
14	4.96V	54	4.83V
15	17.2mV	55	13.3mV
16	17.1mV	56	13.3mV
17	0V	57	13.3mV
18	4.96V	58	13.3mV
19	4.96V	59	10.7mV
20	13.3mV	60	387mV
21	4.96V	61	1.15V
22	4.51V	62	1.52V
23	2.53V	63	1.90V
24	25.7mV	64	1.16V
25	27.5mV	65	1.89V
26	24.4mV	66	1.89V
27	3.60V	67	52.9mV
28	14.0mV	68	-
29	4.97V	69	-
30	4.97V	70	402mV
31	14.0mV	71	14.0mV
32	4.97V	72	-
33	14.0mV	73	-
34	2.34V	74	-
35	2.34V	75	-
36	4.94V	76	334mV
37	3.72V	77	335mV
38	62.6mV	78	333mV
39	4.90V	79	333mV
40	4.96V	80	333mV

IC511	
PIN NO.	VOLTAGE
1	392mV
2	392mV
3	376mV
4	-15.1V
5	377mV
6	390mV
7	390mV
8	14.8V

IC512	
PIN NO.	VOLTAGE
1	387mV
2	387mV
3	376mV
4	-15.1V
5	376mV
6	387mV
7	387mV
8	14.8V

IC514	
PIN NO.	VOLTAGE
1	388mV
2	388mV
3	378mV
4	-15.1V
5	379mV
6	398mV
7	390mV
8	14.8V

IC515	
PIN NO.	VOLTAGE
1	1.0V
2	1.29V
3	600mV
4	349mV
5	-
6	17.0mV
7	17.0mV
8	17.0mV
9	430mV
10	435mV
11	435mV
12	3.47V
13	4.95V
14	3.60V
15	1.26V
16	4.96V

IC516	
PIN NO.	VOLTAGE
1	4.97V
2	1.64V
3	316mV
4	4.97V
5	4.95V
6	12.5mV
7	12.5mV
8	12.5mV
9	4.95V
10	4.97V
11	316mV
12	1.68V
13	4.97V
14	4.97V

IC517	
PIN NO.	VOLTAGE
1	23.7mV
2	25.4mV
3	28.6mV
4	26.4mV
5	26.2mV
6	17.1mV
7	17.1mV
8	17.1mV
9	438mV
10	438mV
11	438mV
12	28.2mV
13	30.2mV
14	29.5mV
15	25.3mV
16	4.96V

IC518	
PIN NO.	VOLTAGE
1	388mV
2	388mV
3	377mV
4	-15.1V
5	375mV
6	384mV
7	384mV
8	14.8V

IC519	
PIN NO.	VOLTAGE
1	385mV
2	385mV
3	375mV
4	-15.1V
5	376mV
6	385mV
7	385mV
8	14.8V

IC523	
PIN NO.	VOLTAGE
1	7.8mV
2	8.0mV
3	7.6mV
4	-15.1V
5	7.8mV
6	8.0mV
7	7.6mV
8	14.8V

D1/6 VR ASSY

IC103	
PIN NO.	VOLTAGE
1	-15.1V
2	12.1mV
3	12.1mV
4	12.1mV
5	12.1mV
6	-23.1mV
7	12.1mV
8	12.1mV
9	-11.0mV
10	12.1mV
11	12.1mV
12	-11.0mV
13	17.1mV
14	11.7mV
15	4.96V
16	17.0mV
17	2.0mV
18	12.1mV
19	12.1mV
20	7.0mV
21	12.1mV
22	12.1mV
23	-23.7mV
24	12.1mV
25	12.1mV
26	12.1mV
27	12.1mV
28	14.8V

IC104	
PIN NO.	VOLTAGE
1	-15.1V
2	-63mV
3	11.7mV
4	-14.8V
5	-14.8V
6	4.96V
7	13.1mV
8	11.7mV
9	11.7mV
10	11.7mV
11	12.7mV
12	12.1mV
13	17.0mV
14	12.1mV
15	4.96V
16	17.0mV
17	12.1mV
18	12.7mV
19	11.7mV
20	11.7mV
21	11.7mV
22	13.0mV
23	4.96V
24	7.98V
25	7.98V
26	7.98V
27	7.98V
28	14.8V

IC105	
PIN NO.	VOLTAGE
1	-15.1V
2	-63mV
3	10.8mV
4	10.8mV
5	12.8mV
6	10.8mV
7	10.8mV
8	11.7mV
9	11.7mV
10	11.7mV
11	11.7mV
12	12.2mV
13	15.7mV
14	11.0mV
15	4.96V
16	17.0mV
17	11.7mV
18	11.7mV
19	11.7mV
20	11.7mV
21	11.7mV
22	10.8mV
23	10.8mV
24	11.8mV
25	10.9mV
26	10.9mV
27	11.8mV
28	14.8V

IC107	
PIN NO.	VOLTAGE
1	7.91V
2	4.29V
3	290mV
4	-7.95V
5	-7.95V
6	12.1mV
7	0V
8	11.3mV
9	11.3mV
10	0V
11	12.3mV
12	-7.95V
13	-7.95V
14	-20mV
15	4.29V
16	7.91V

IC108	
PIN NO.	VOLTAGE
1	7.91V
2	4.29V
3	290mV
4	-7.95V
5	-7.95V
6	12.1mV
7	0V
8	11.7mV
9	11.7mV
10	0V
11	12.8mV
12	-7.95V
13	-7.95V
14	-20mV
15	4.29V
16	7.91V

IC109	
PIN NO.	VOLTAGE
1	20.0mV
2	13.0mV
3	13.0mV
4	-15.1mV
5	13.0mV
6	13.0mV
7	19.5mV
8	14.8V

IC110

PIN NO.	VOLTAGE
1	9.6mV
2	11.5mV
3	11.5mV
4	-15.1V
5	11.5mV
6	11.5mV
7	10.1mV
8	14.8V

IC124

PIN NO.	VOLTAGE
1	12.3mV
2	12.3mV
3	12.3mV
4	-15.1V
5	12.2mV
6	12.2mV
7	12.2mV
8	14.8V

D2/6 VR ASSY

IC311	
PIN NO.	VOLTAGE
1	-15.1V
2	0.2mV
3	0.2mV
4	0.2mV
5	0.2mV
6	0.2mV
7	0.2mV
8	0.2V
9	0.2V
10	0.2mV
11	0.2mV
12	17.1mV
13	0.2mV
14	4.96V
15	17.1mV
16	0.2mV
17	0.2mV
18	0.2mV
19	0.2mV
20	0.2mV
21	0.2mV
22	0.2mV
23	0.2mV
24	0.2mV
25	0.2mV
26	0.2mV
27	0.2mV
28	14.8V

IC308	
PIN NO.	VOLTAGE
1	0.2mV
2	0.2mV
3	0.2mV
4	0.2mV
5	4.93V
6	0.2mV
7	0.2mV
8	-7.49V
9	0.2mV
10	0.2mV
11	0.2mV
12	4.93V
13	0.2mV
14	0.2mV
15	0.2mV
16	7.91V

IC200	
PIN NO.	VOLTAGE
1	15.3mV
2	15.3mV
3	15.3mV
4	-15.1V
5	11.9mV
6	11.9mV
7	13.6mV
8	14.8V

IC202	
PIN NO.	VOLTAGE
1	12.3mV
2	12.3mV
3	12.4mV
4	-15.1V
5	12.5mV
6	12.5mV
7	12.5mV
8	14.8V

IC203	
PIN NO.	VOLTAGE
1	11.8mV
2	12.3mV
3	12.3mV
4	-15.1V
5	12.4mV
6	12.4mV
7	11.7mV
8	14.8V

IC204	
PIN NO.	VOLTAGE
1	13.0mV
2	11.0mV
3	11.0mV
4	-15.1V
5	11.9mV
6	11.9mV
7	13.6mV
8	14.8V

IC312

PIN NO.	VOLTAGE
1	-2.2mV
2	1.1mV
3	1.1mV
4	-7.94V
5	0.2mV
6	0.2mV
7	-2.7V
8	7.91V

D3/6 VR ASSY

IC101	
PIN NO.	VOLTAGE
1	-15.1V
2	11.4mV
3	12.2mV
4	12.2mV
5	12.2mV
6	11.4mV
7	12.2mV
8	12.2mV
9	12.2mV
10	9.8mV
11	11.2mV
12	12.1mV
13	17.1mV
14	11.8V
15	4.96V
16	17.1mV
17	11.7mV
18	11.7mV
19	9.8mV
20	12.2mV
21	12.2mV
22	12.2mV
23	11.4mV
24	12.2mV
25	12.2mV
26	11.4mV
27	12.2mV
28	14.8V

IC102	
PIN NO.	VOLTAGE
1	-15.1V
2	12.1mV
3	11.4mV
4	12.1mV
5	12.1mV
6	11.5mV
7	12.1mV
8	12.1mV
9	12.1mV
10	9.8mV
11	11.2mV
12	11.8mV
13	17.1mV
14	11.9mV
15	4.96V
16	17.2mV
17	11.8mV
18	11.8mV
19	9.8mV
20	12.2mV
21	12.2mV
22	12.2mV
23	12.2mV
24	12.2mV
25	12.2mV
26	12.2mV
27	12.2mV
28	14.8V

D4/6 VR ASSY

IC301	
PIN NO.	VOLTAGE
1	36.7mV
2	14.1mV
3	13.9mV
4	-15.1V
5	24.1mV
6	24.5mV
7	12.3mV
8	14.8V

IC416	
PIN NO.	VOLTAGE
1	12.8mV
2	12.8mV
3	12.8mV
4	-15.1V
5	12.8mV
6	12.8mV
7	12.8mV
8	14.8V

IC420	
PIN NO.	VOLTAGE
1	13.2mV
2	13.2mV
3	13.2mV
4	-15.1V
5	13.2mV
6	13.2mV
7	13.2mV
8	14.8V

IC302	
PIN NO.	VOLTAGE
1	34.6mV
2	30.6mV
3	38.1mV
4	-15.1V
5	11.7mV
6	12.1mV
7	12.1mV
8	14.8V

IC417	
PIN NO.	VOLTAGE
1	19.3mV
2	19.3mV
3	19.3mV
4	-15.1V
5	19.3mV
6	19.3mV
7	19.3mV
8	14.8V

IC418	
PIN NO.	VOLTAGE
1	21.0mV
2	21.0mV
3	21.0mV
4	-15.1V
5	21.0mV
6	21.0mV
7	21.0mV
8	14.8V

IC303	
PIN NO.	VOLTAGE
1	34.8mV
2	34.8mV
3	34.8mV
4	-15.1V
5	15.4mV
6	15.6mV
7	15.6mV
8	14.8V

IC419	
PIN NO.	VOLTAGE
1	17.5mV
2	17.5mV
3	17.5mV
4	-15.1V
5	17.5mV
6	17.5mV
7	17.5mV
8	14.8V

D5/6 VR ASSY

IC401, 406, 411	
PIN NO.	VOLTAGE
1	12.8mV
2	12.8mV
3	12.8mV
4	-15.1V
5	12.8mV
6	12.8mV
7	12.8mV
8	14.8V

IC402, 407, 412	
PIN NO.	VOLTAGE
1	19.3mV
2	19.3mV
3	19.3mV
4	-15.1V
5	19.3mV
6	19.3mV
7	19.3mV
8	14.8V

IC403, 408, 413	
PIN NO.	VOLTAGE
1	21.0mV
2	21.0mV
3	21.0mV
4	-15.1V
5	21.0mV
6	21.0mV
7	21.0mV
8	14.8V

IC404, 409, 414	
PIN NO.	VOLTAGE
1	17.5mV
2	17.5mV
3	17.5mV
4	-15.1V
5	17.5mV
6	17.5mV
7	17.5mV
8	14.8V

IC405, 410, 415	
PIN NO.	VOLTAGE
1	13.2mV
2	13.2mV
3	13.2mV
4	-15.1V
5	13.2mV
6	13.2mV
7	13.2mV
8	14.8V

IC111	
PIN NO.	VOLTAGE
1	-15.1V
2	11.2mV
3	12.2mV
4	12.2mV
5	12.2mV
6	12.2mV
7	12.2mV
8	0V
9	12.2mV
10	4.2mV
11	0V
12	11.2mV
13	17.1mV
14	11.8mV
15	4.96V
16	17.1mV
17	11.7mV
18	11.7mV
19	9.8mV
20	12.2mV
21	12.2mV
22	12.2mV
23	11.4mV
24	12.2mV
25	12.2mV
26	11.4mV
27	12.2mV
28	14.8V

IC106	
PIN NO.	VOLTAGE
1	4.30V
2	-2.75V
3	11.4mV
4	-7.94V
5	11.2mV
6	11.0mV
7	232mV
8	4.96V

IC112, 113	
PIN NO.	VOLTAGE
1	9.4mV
2	9.7mV
3	9.4mV
4	-15.1V
5	9.4mV
6	9.7mV
7	9.4mV
8	14.8V

DJM-600

A TERMINAL ASSY

IC801, 802, 803	
PIN NO.	VOLTAGE
1	-28.6mV
2	128mV
3	128mV
4	-7.96V
5	127mV
6	127mV
7	-267mV
8	7.92V

IC805, 806 - 809	
PIN NO.	VOLTAGE
1	25.8mV
2	25.8mV
3	25.8mV
4	7.96V
5	26.5mV
6	25.9mV
7	25.9mV
8	7.92V

IC824	
PIN NO.	VOLTAGE
1	14.2mV
2	14.2mV
3	14.2mV
4	-15.2V
5	14.2mV
6	14.2mV
7	14.2mV
8	14.8V

IC810	
PIN NO.	VOLTAGE
1	11.7mV
2	11.7mV
3	11.7mV
4	-15.2V
5	11.7mV
6	11.7mV
7	11.7mV
8	14.8V

R REG ASSY

IC550	
PIN NO.	VOLTAGE
1	14.9V
2	0V
3	20.3V

IC551	
PIN NO.	VOLTAGE
1	-15.2V
2	-20.3V
3	0V

IC552	
PIN NO.	VOLTAGE
1	7.96V
2	0V
3	20.2V

IC553	
PIN NO.	VOLTAGE
1	-8.0V
2	-20.3V
3	0V

Q POWER ASSY

IC554	
PIN NO.	VOLTAGE
1	6.90V
2	4.99V
3	0V
4	4.99V

IC561	
PIN NO.	VOLTAGE
1	7.94V
2	0V
3	18.9V

B PHONE ASSY

IC231	
PIN NO.	VOLTAGE
1	10.5mV
2	10.5mV
3	10.5mV
4	-15.8V
5	10.9mV
6	11.3mV
7	11.3mV
8	14.8V

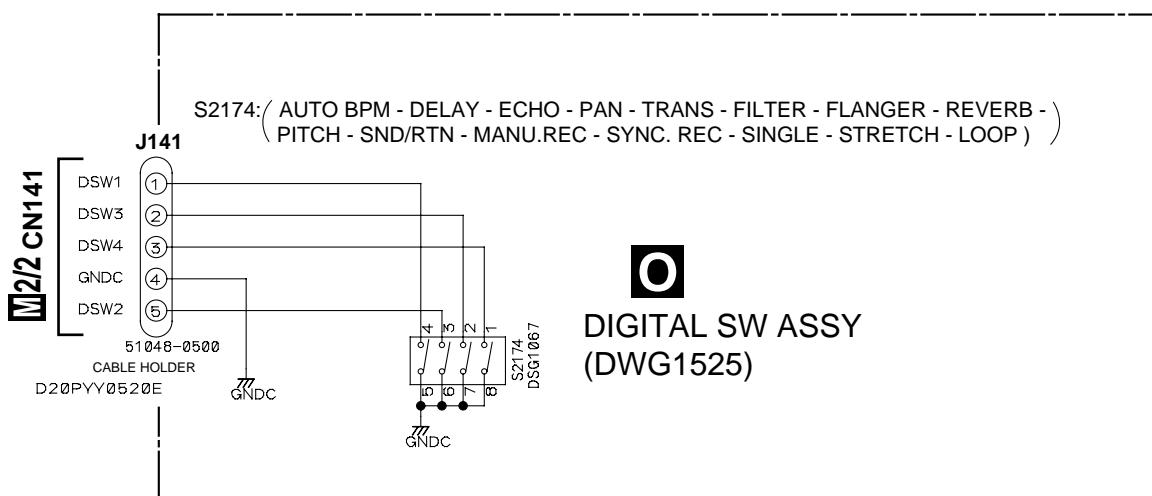
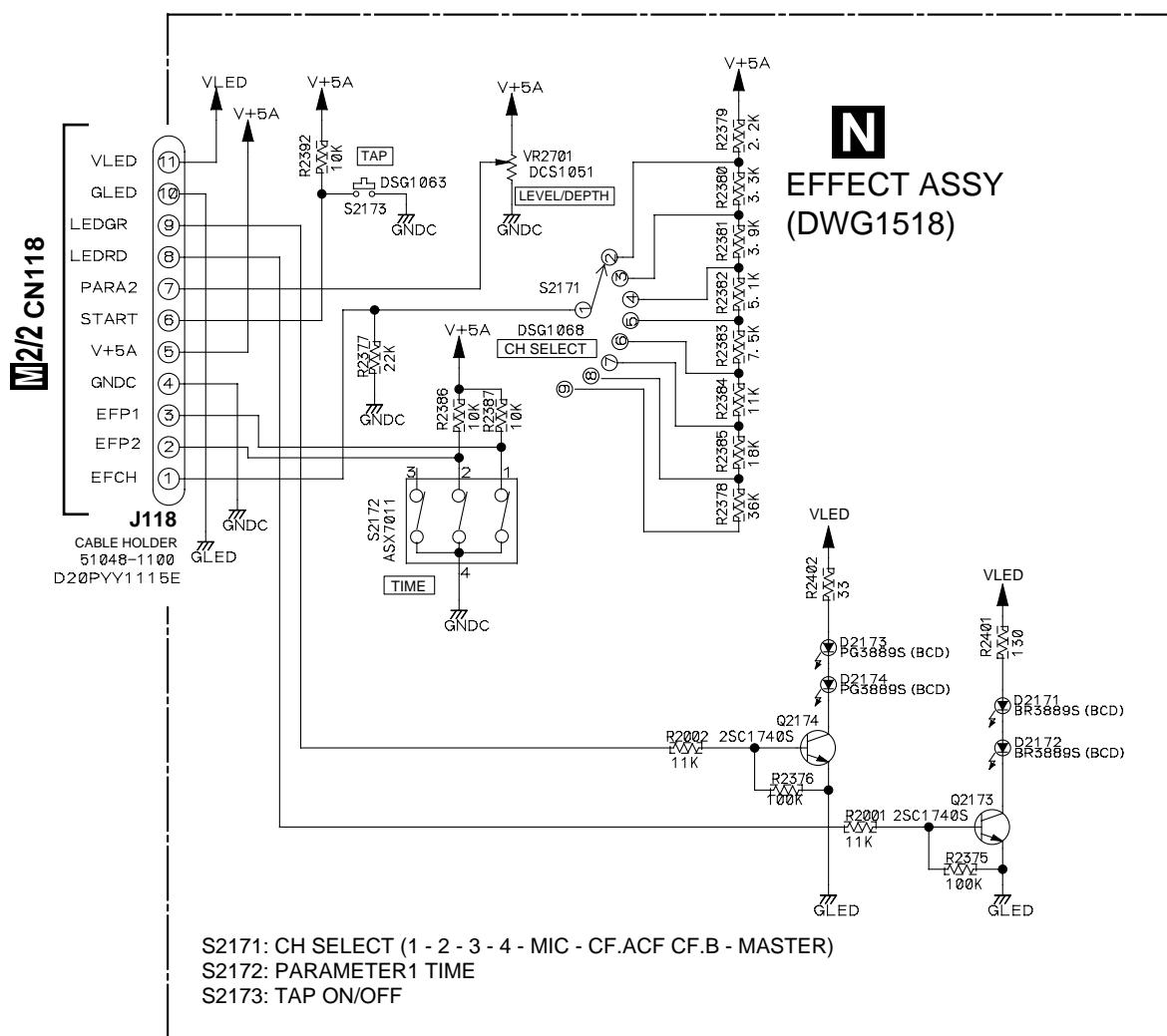
IC601	
PIN NO.	VOLTAGE
1	1.29V
2	1.29V
3	1.29V
4	-15.8V
5	1.29V
6	1.29V
7	1.29V
8	14.8V

IC602	
PIN NO.	VOLTAGE
1	7.5mV
2	9.2mV
3	8.1mV
4	-15.8V
5	8.0mV
6	8.2mV
7	6.6mV
8	14.8V

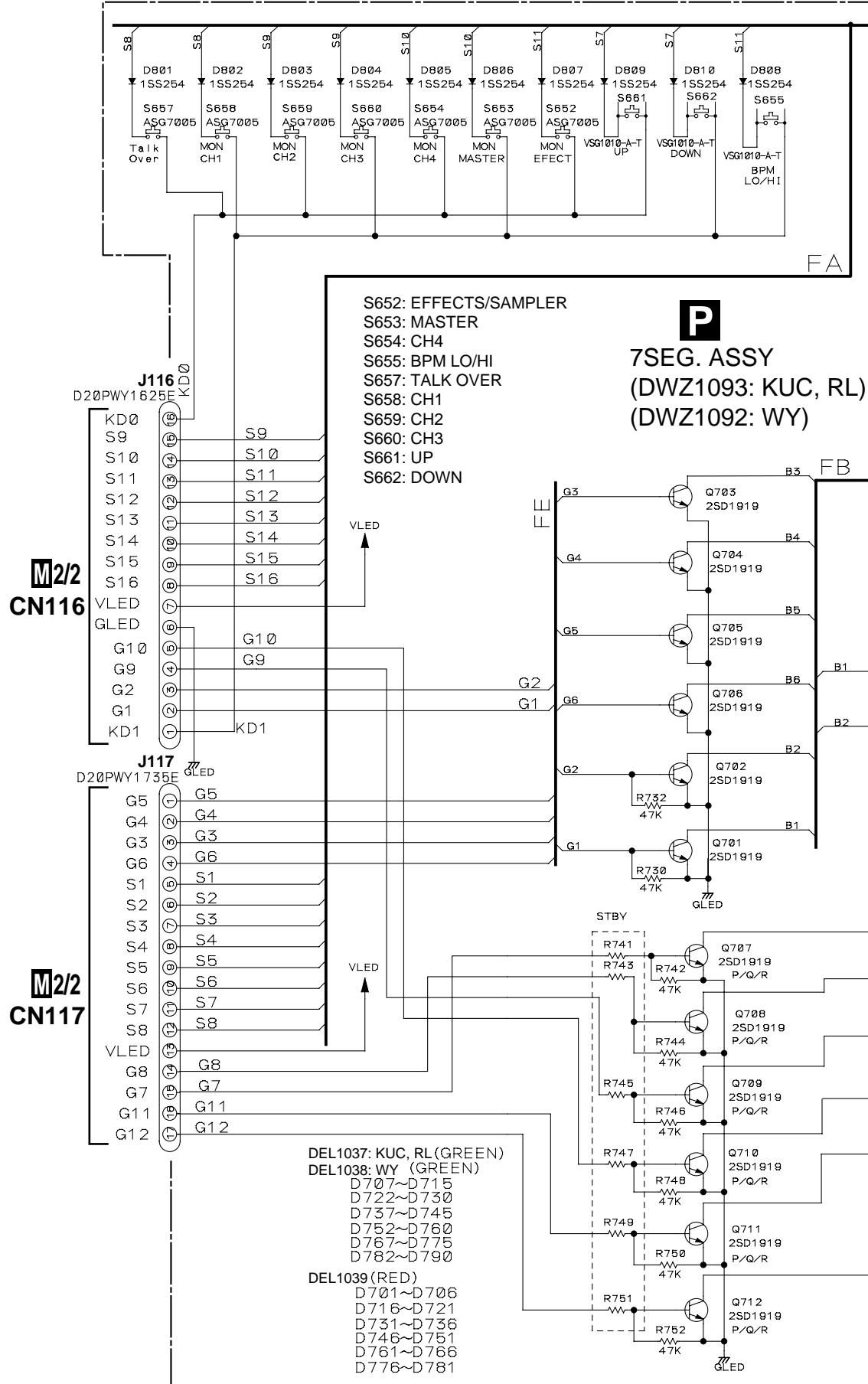
IC603	
PIN NO.	VOLTAGE
1	8.2mV
2	8.2mV
3	7.7mV
4	-15.8V
5	8.0mV
6	8.2mV
7	8.7mV
8	14.8V

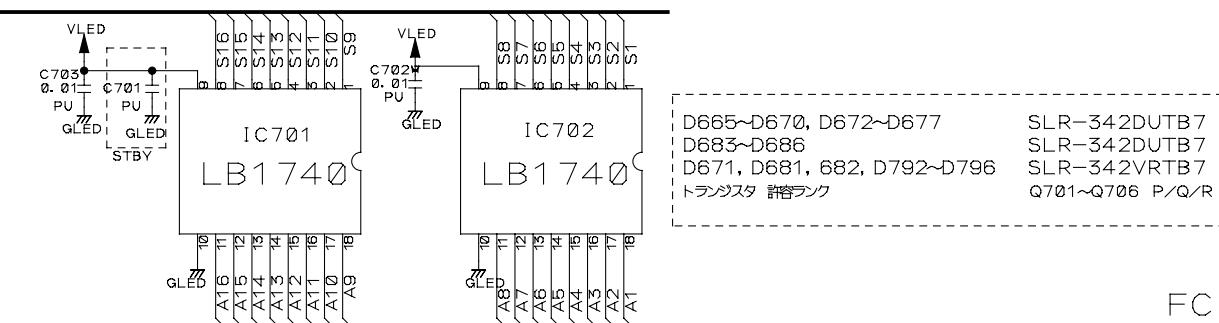
IC604	
PIN NO.	VOLTAGE
1	7.7mV
2	7.7mV
3	7.7mV
4	7.7mV
5	7.90V
6	7.93V
7	-7.96V
8	7.93V
9	7.93V
10	7.93V
11	7.93V
12	7.93V
13	7.90V
14	7.93V

3.13 EFFECT and DIGITAL SW ASSY

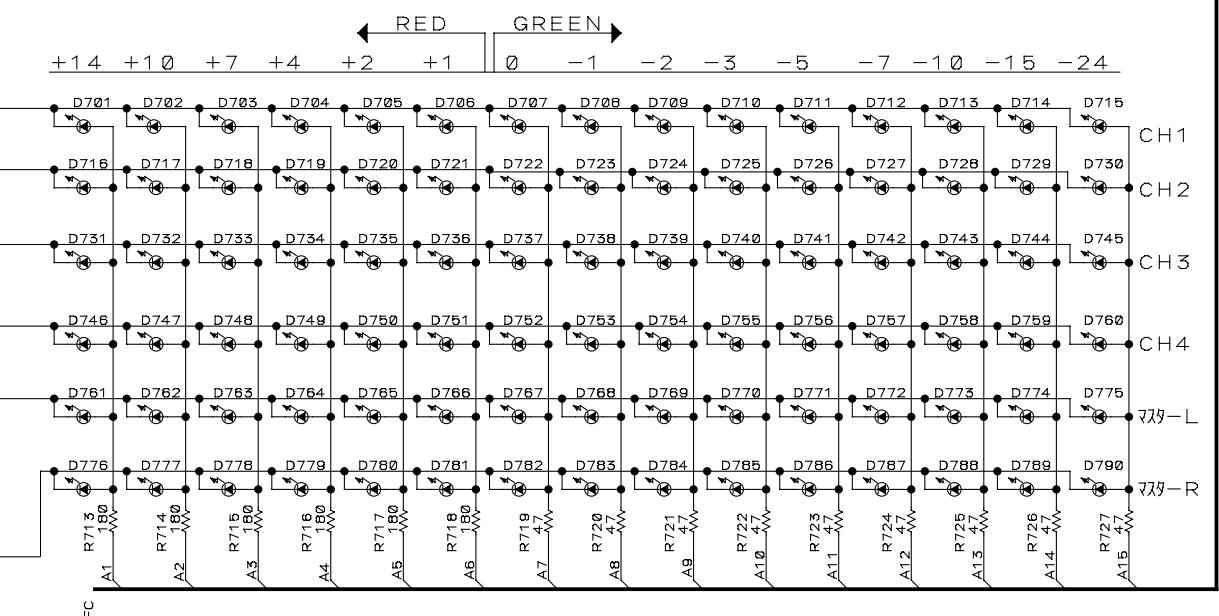
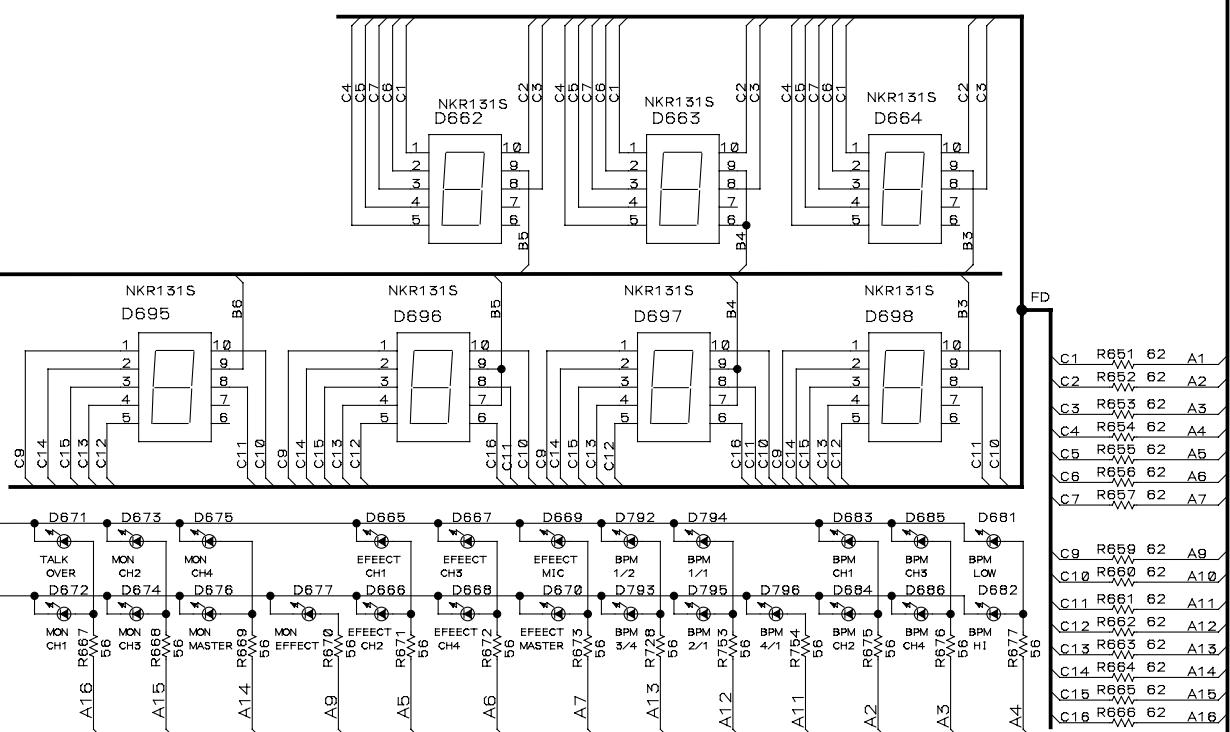


3.14 7SEG. ASSY



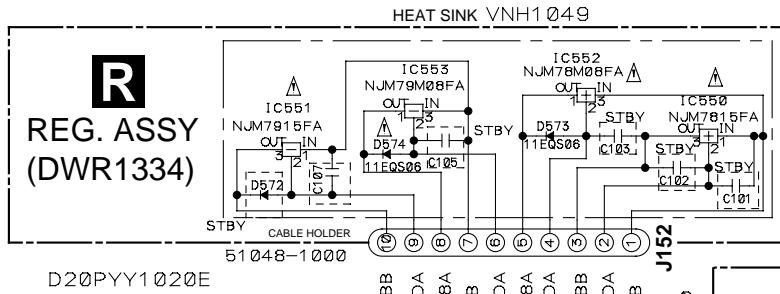


FC

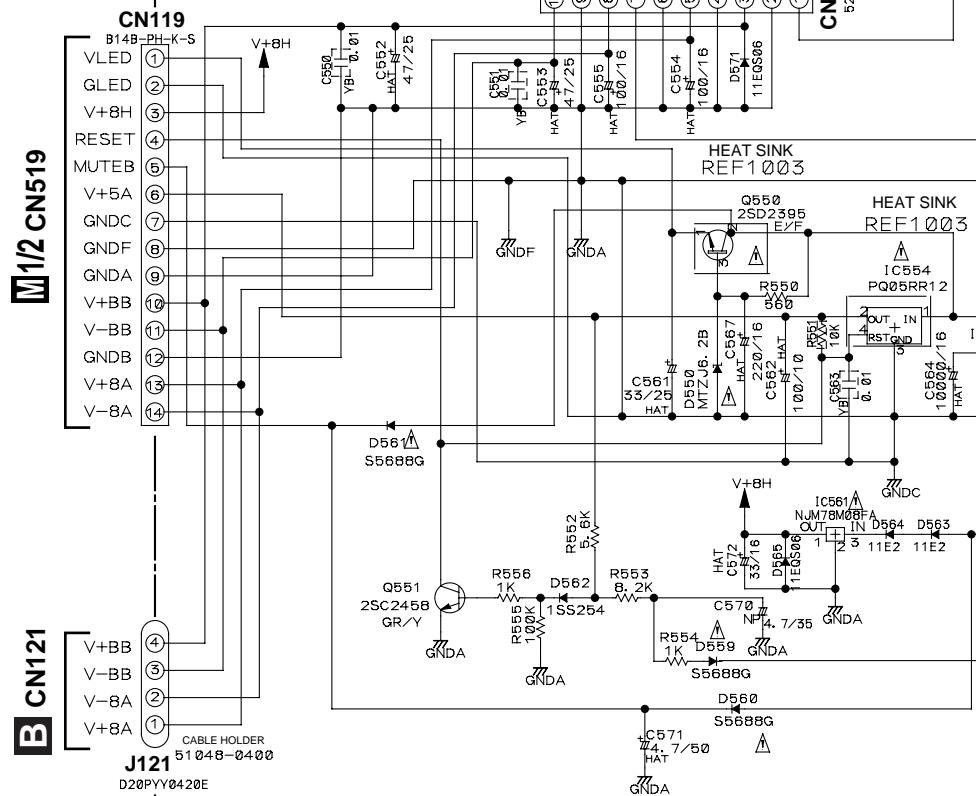


3.15 REG., POWER, TRANS and POWER SW ASSYS

A



B



C

Q

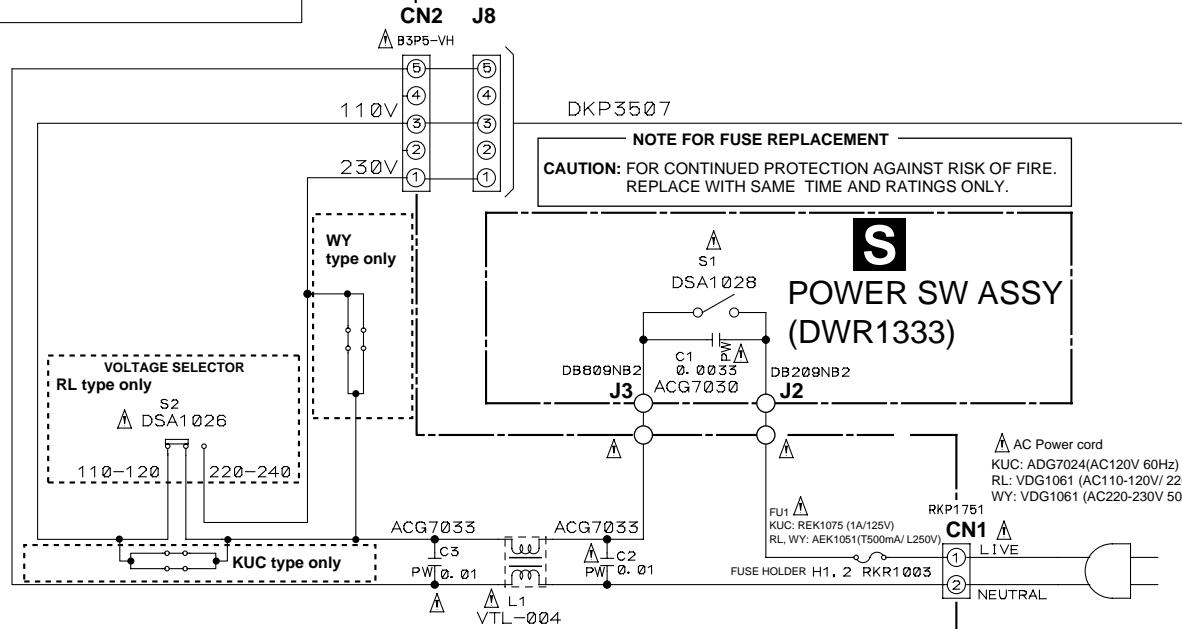
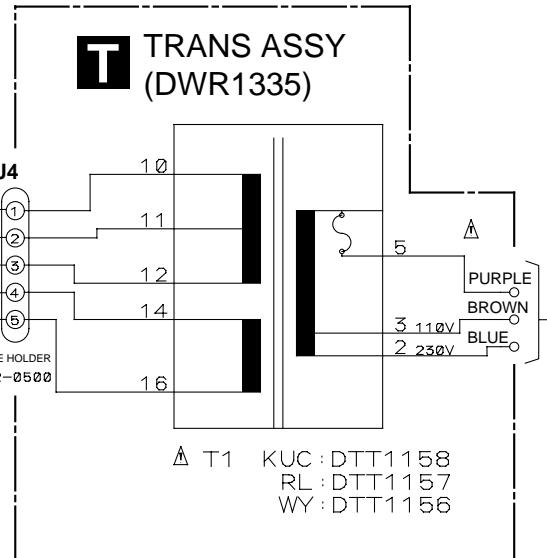
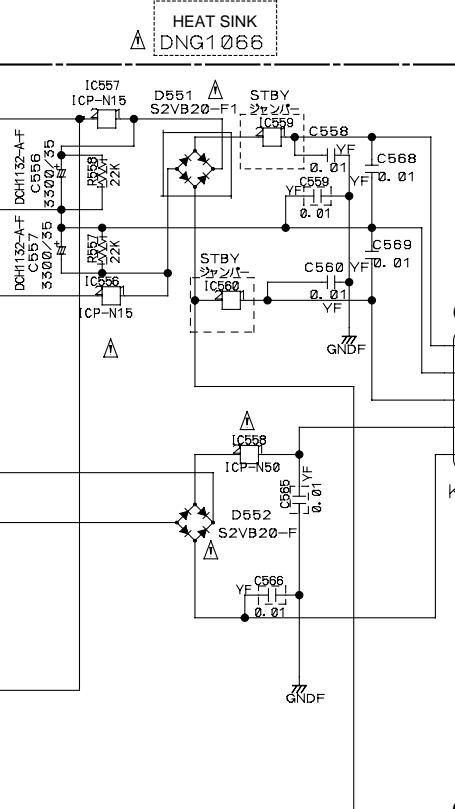
POWER ASSY
(J, KUC: DWR1337)
(RL: DWR1336)
(WY: DWR1332)

D

Q R

CAUTION:FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TIME NO. ICP-N50, MFD BY
ROHM CO., LTD. FOR IC558

CAUTION:FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TIME NO. ICP-N15, MFD BY
ROHM CO., LTD. FOR IC556, IC556 AND IC557.



4. PCB CONNECTION DIAGRAM

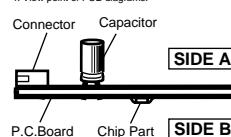
4.1 TERMINAL ASSY

NOTE FOR PCB DIAGRAMS :

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

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

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



D
CN101

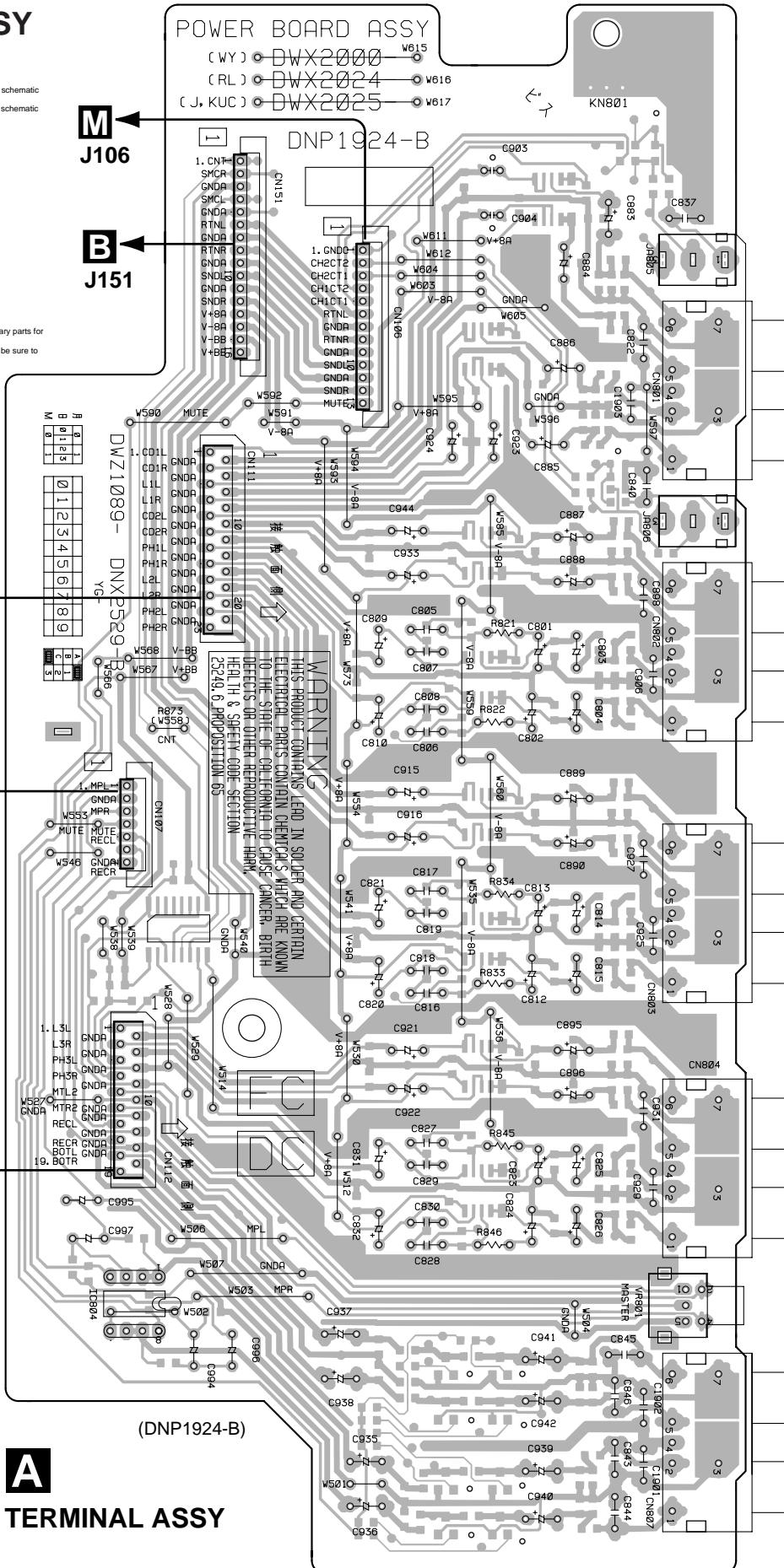
SIDE A

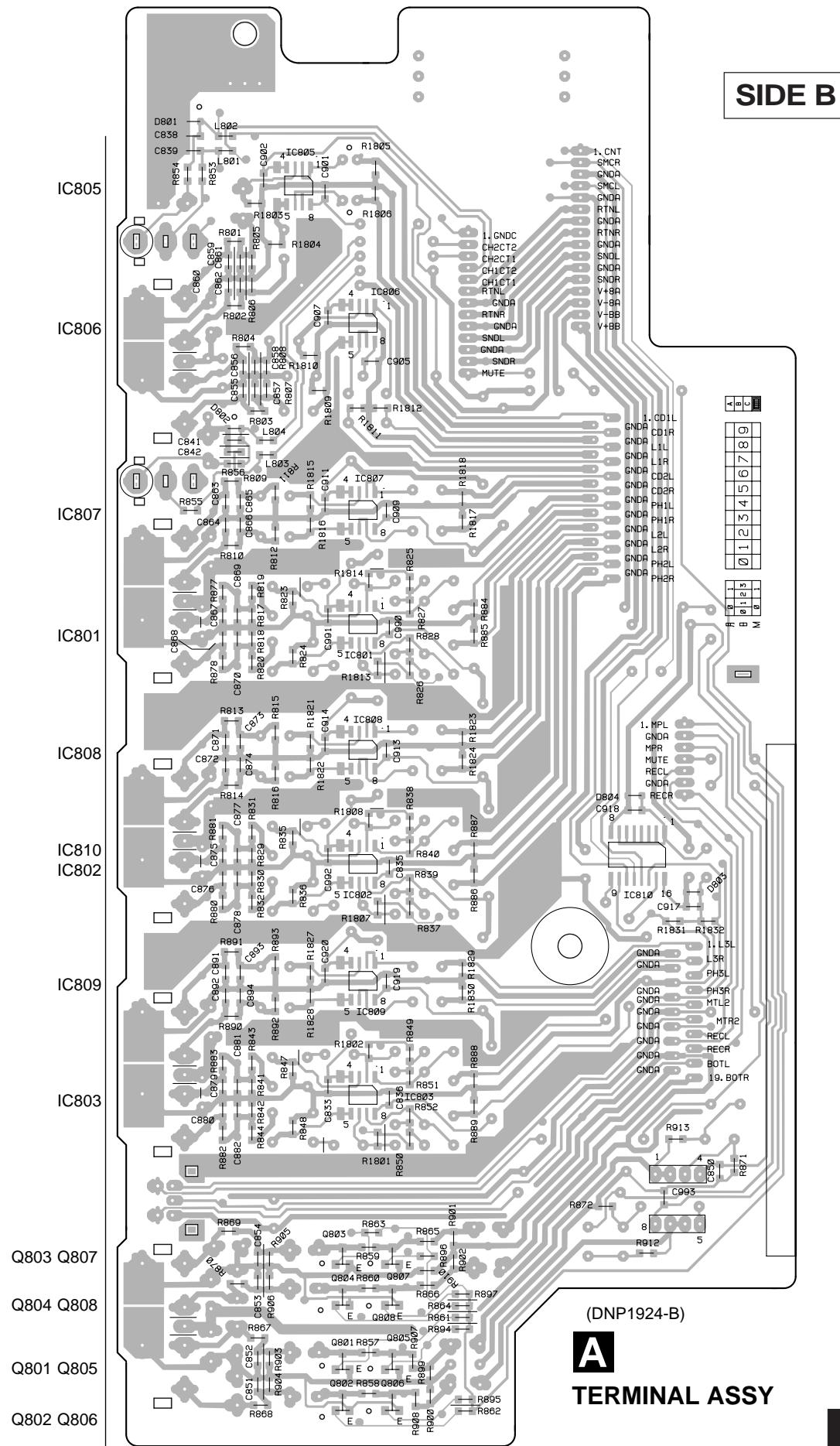
B
J107

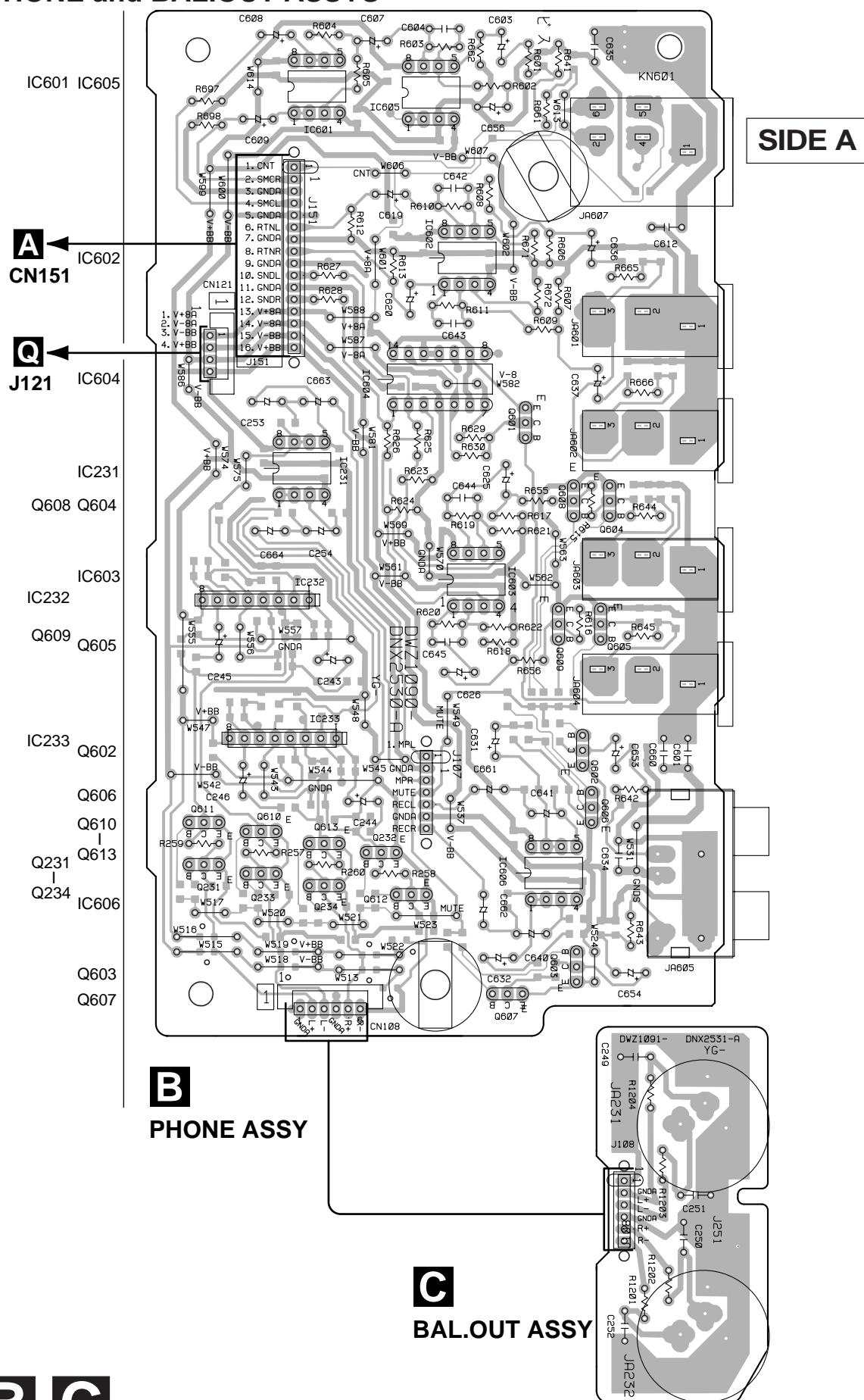
D
CN102

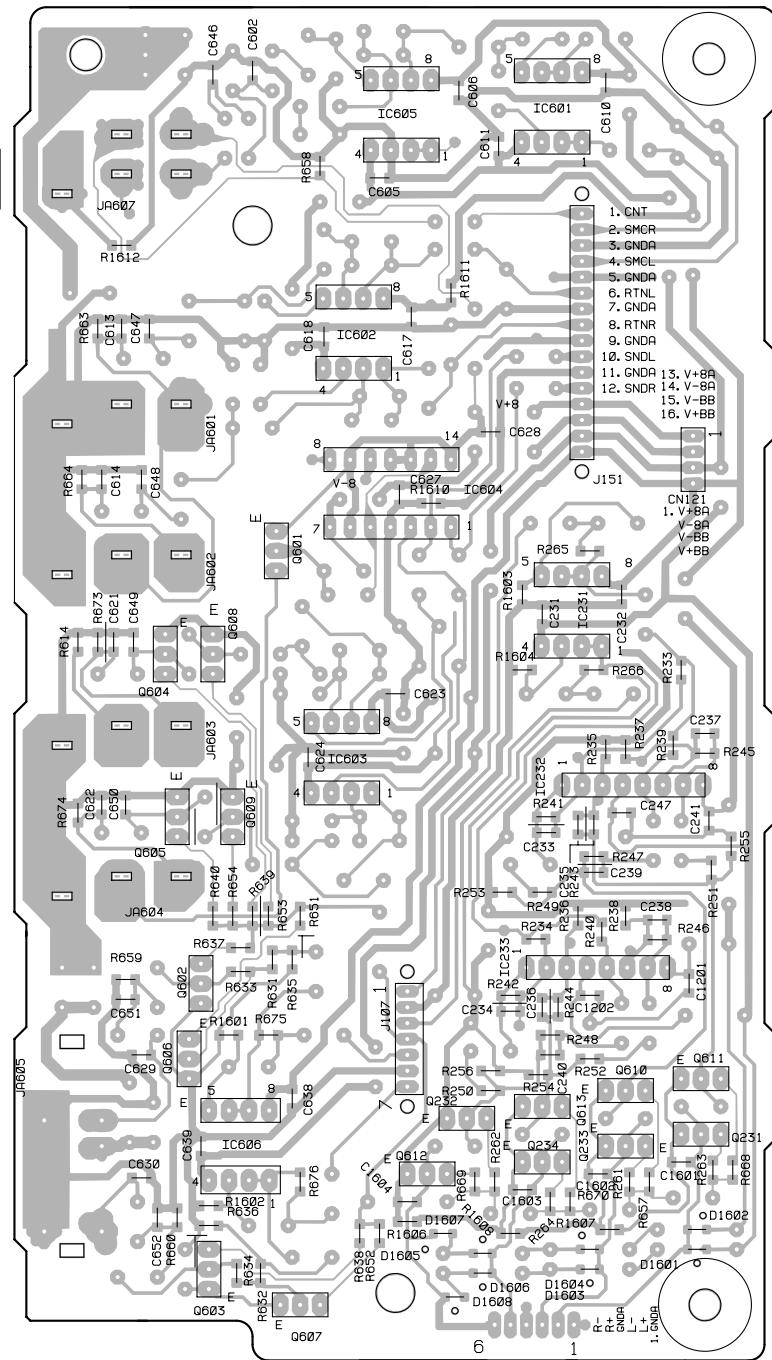
IC804

A
TERMINAL ASSY





4.2 PHONE and BAL.OUT ASSYS

SIDE B

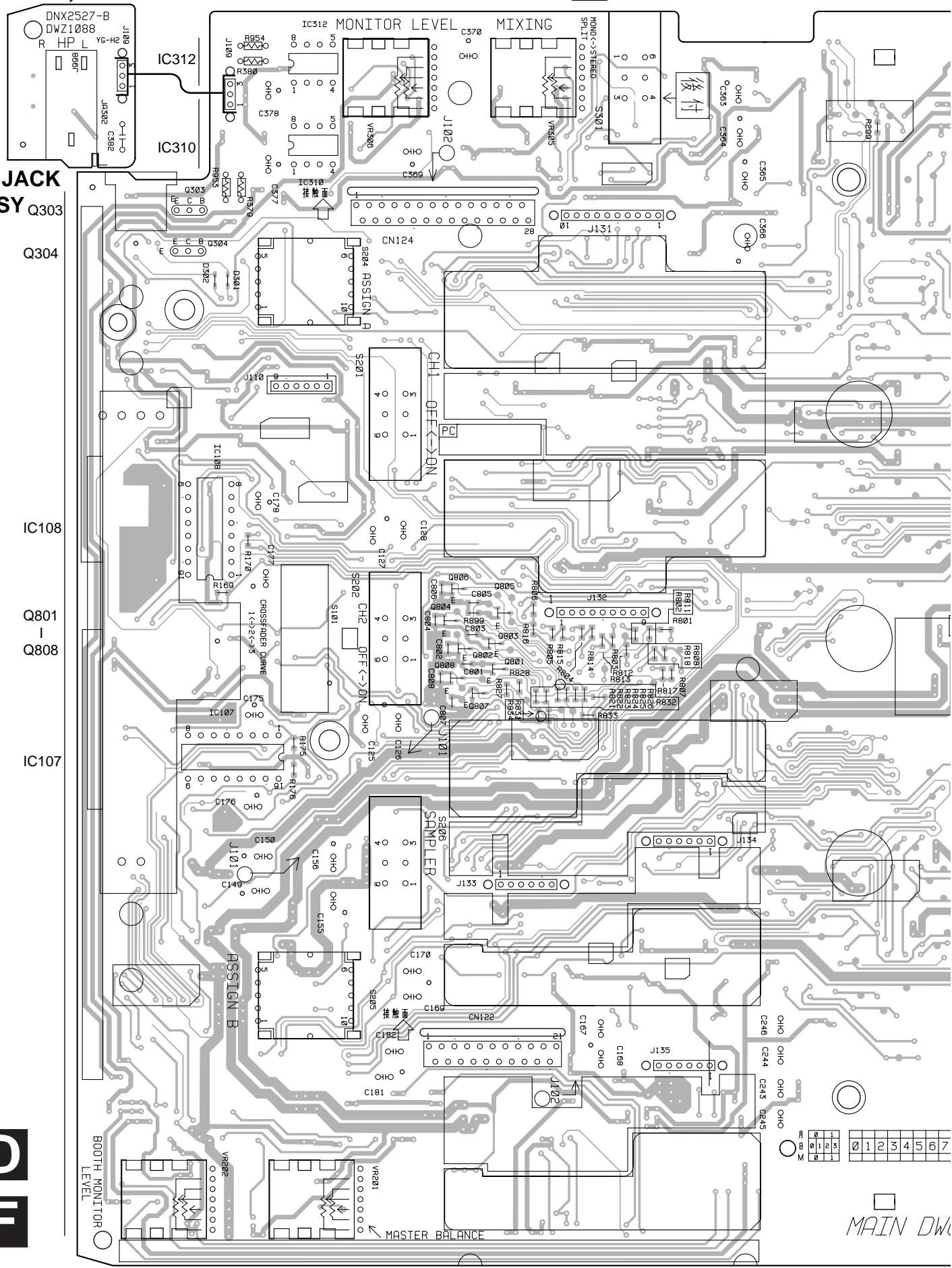
B
PHONE ASSY

4.3 VR, HP JACK and MIC JACK ASSYS

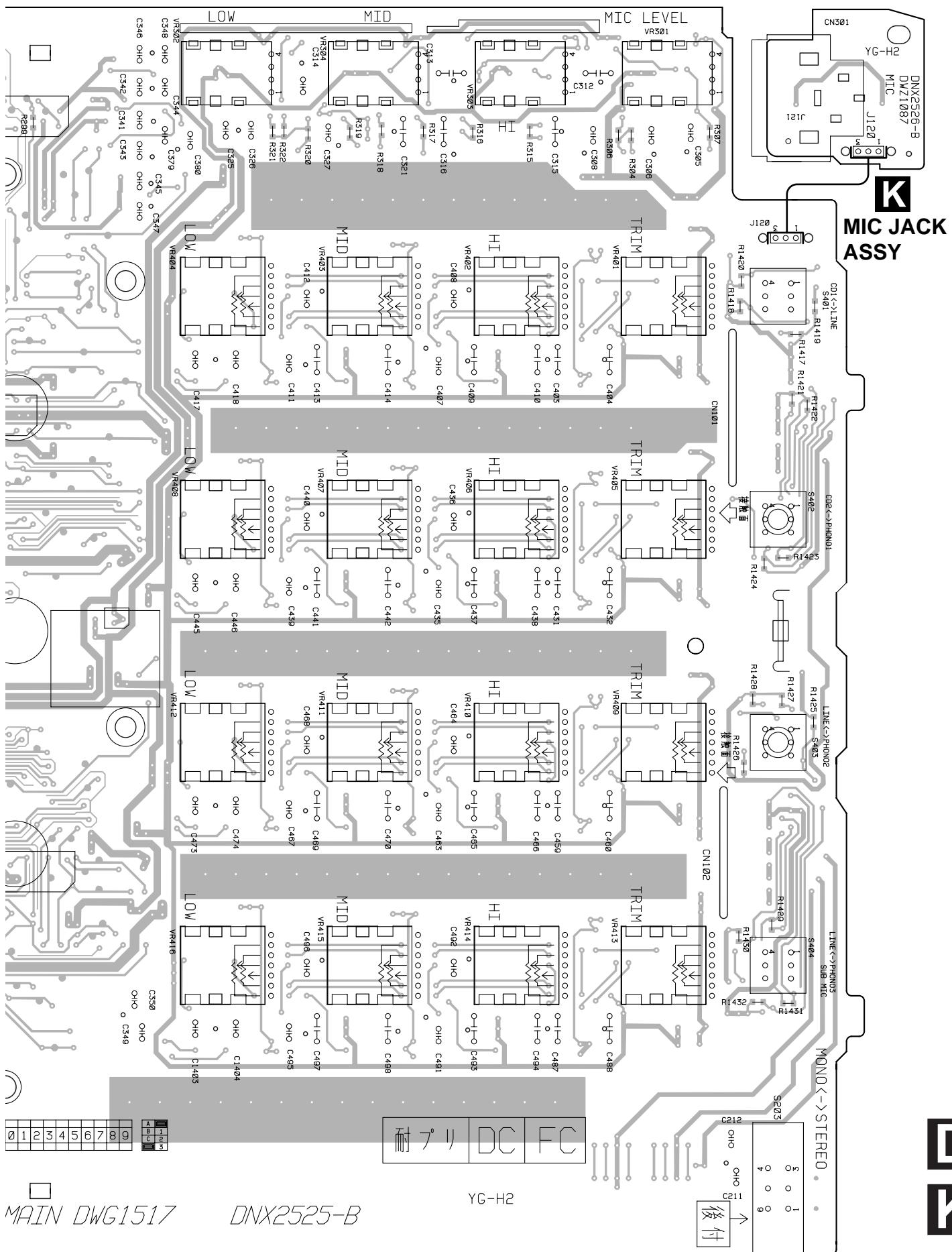
D VR ASSY

SIDE A

F

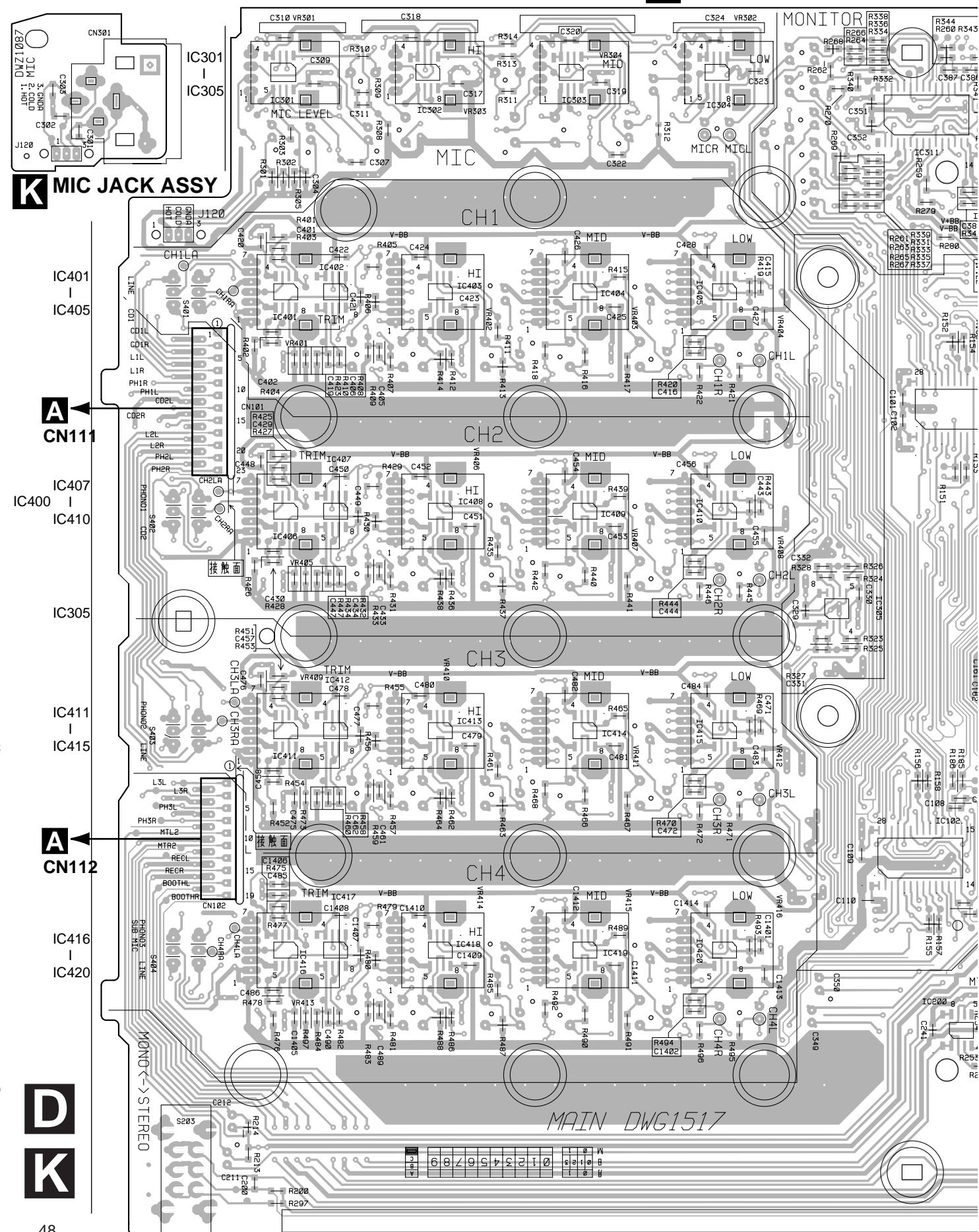
HP JACK
ASSY

SIDE A



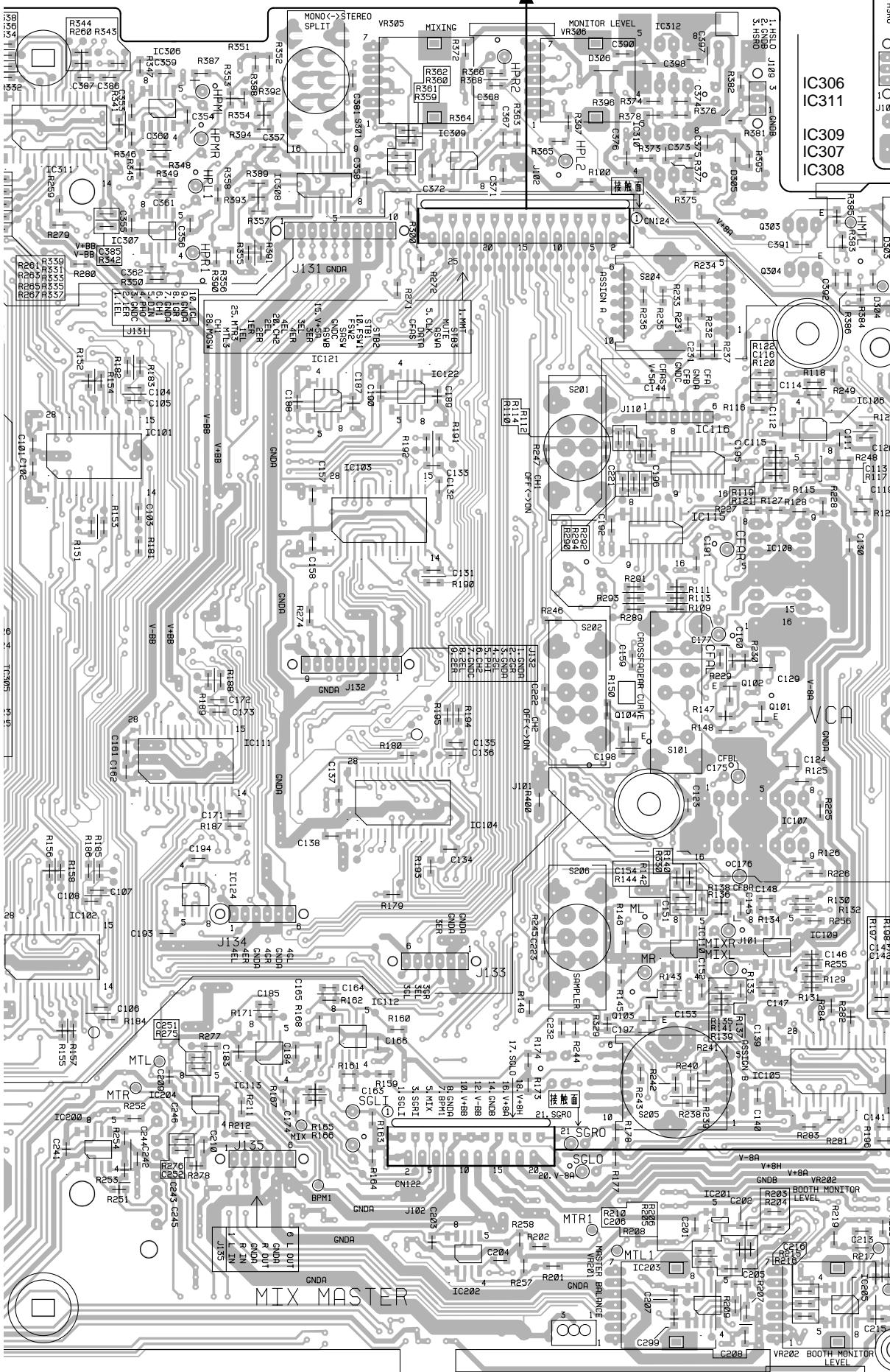
D K

SIDE B



SIDE B

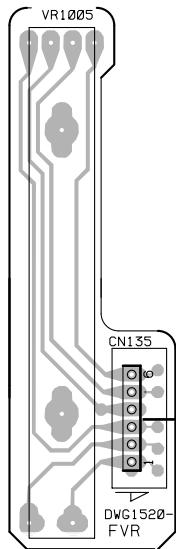
M CN524



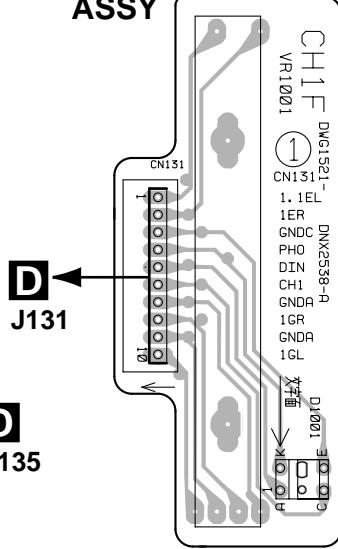
4.4 FADER VR(CH1), FADER VR(CH2), FADER VR(CH3), FADER VR (CH4) FADER VR (MAIN) and C.F ASSYS

E

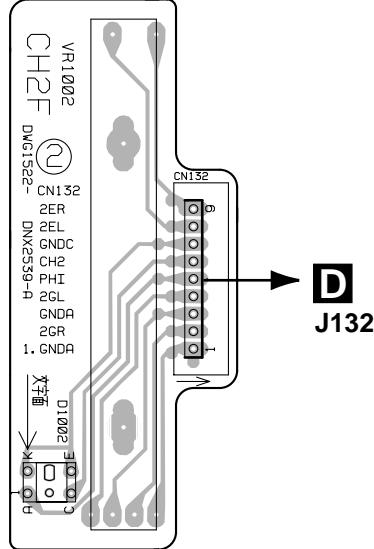
FADER VR (MAIN)
ASSY

**G**

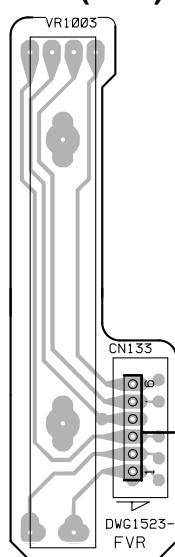
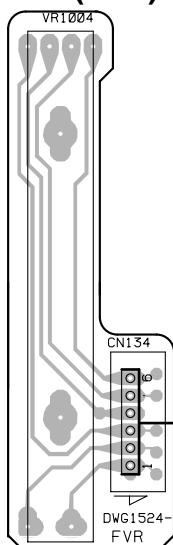
FADER VR (CH1)
ASSY

**H**

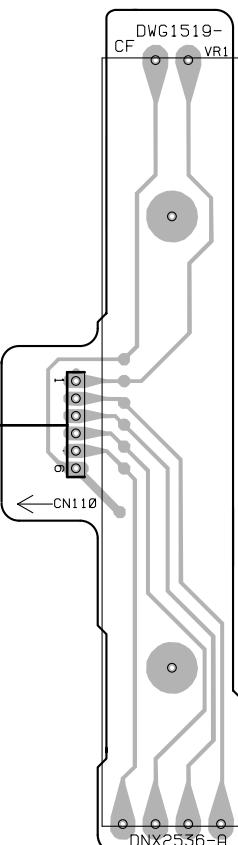
FADER VR (CH2)
ASSY

**SIDE A****I**

FADER VR (CH3)
ASSY

**J** **FADER VR (CH4)**
ASSY**L**

C.F ASSY

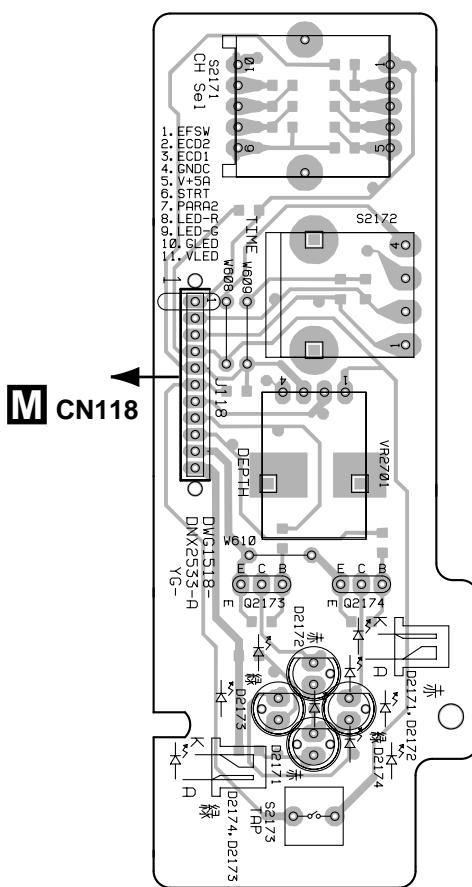
**E****G****H****I****J****L**

4.5 EFFCT, DIGITAL SW ASSY

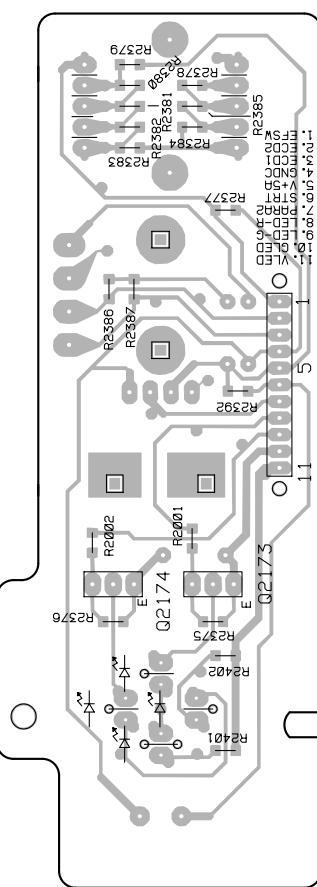
SIDE A

SIDE B

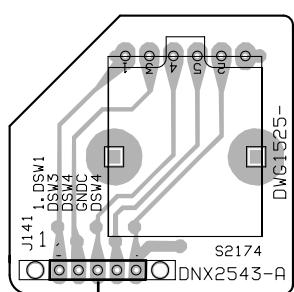
N
EFFECT ASSY



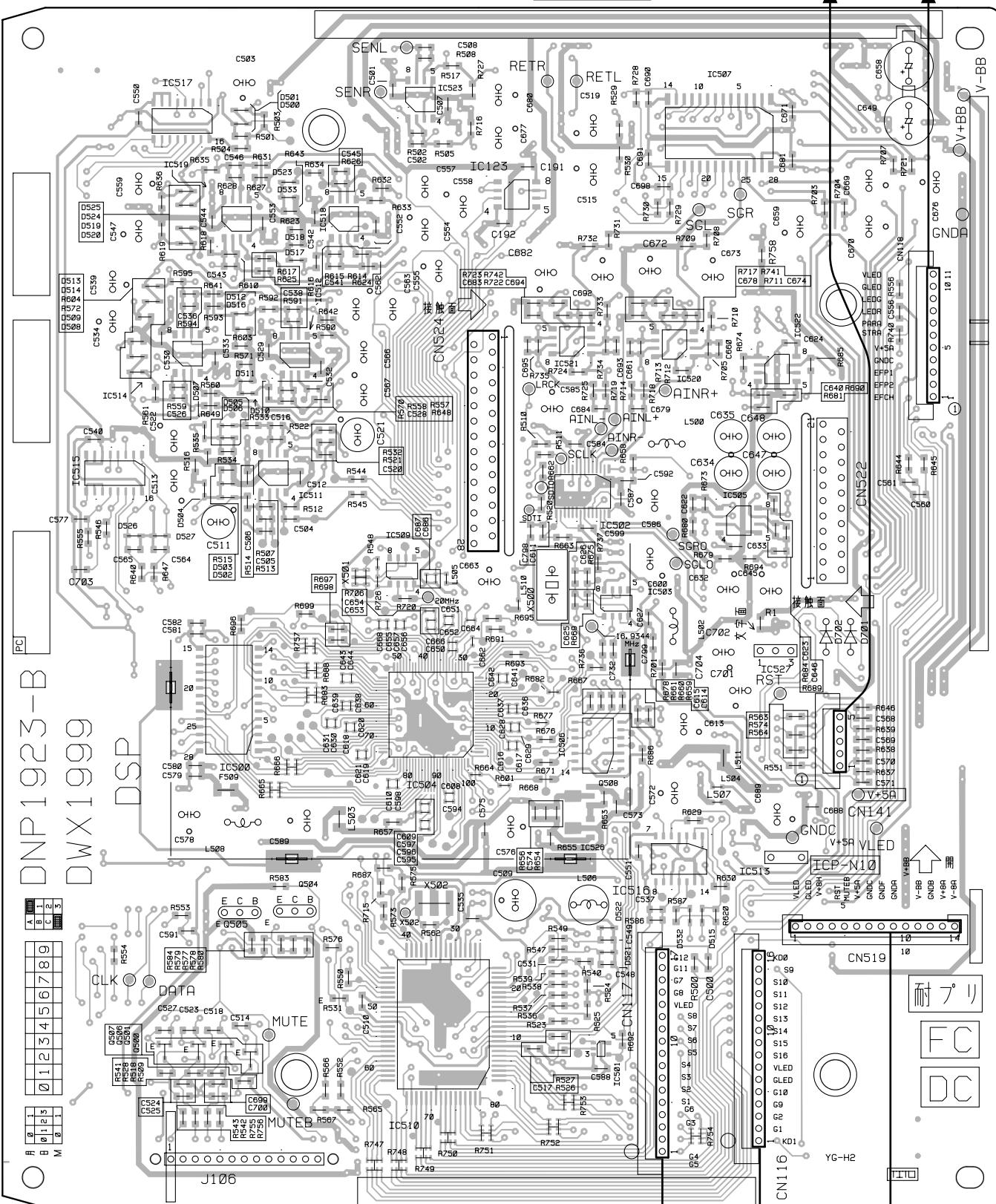
**N
EFFECT ASSY**

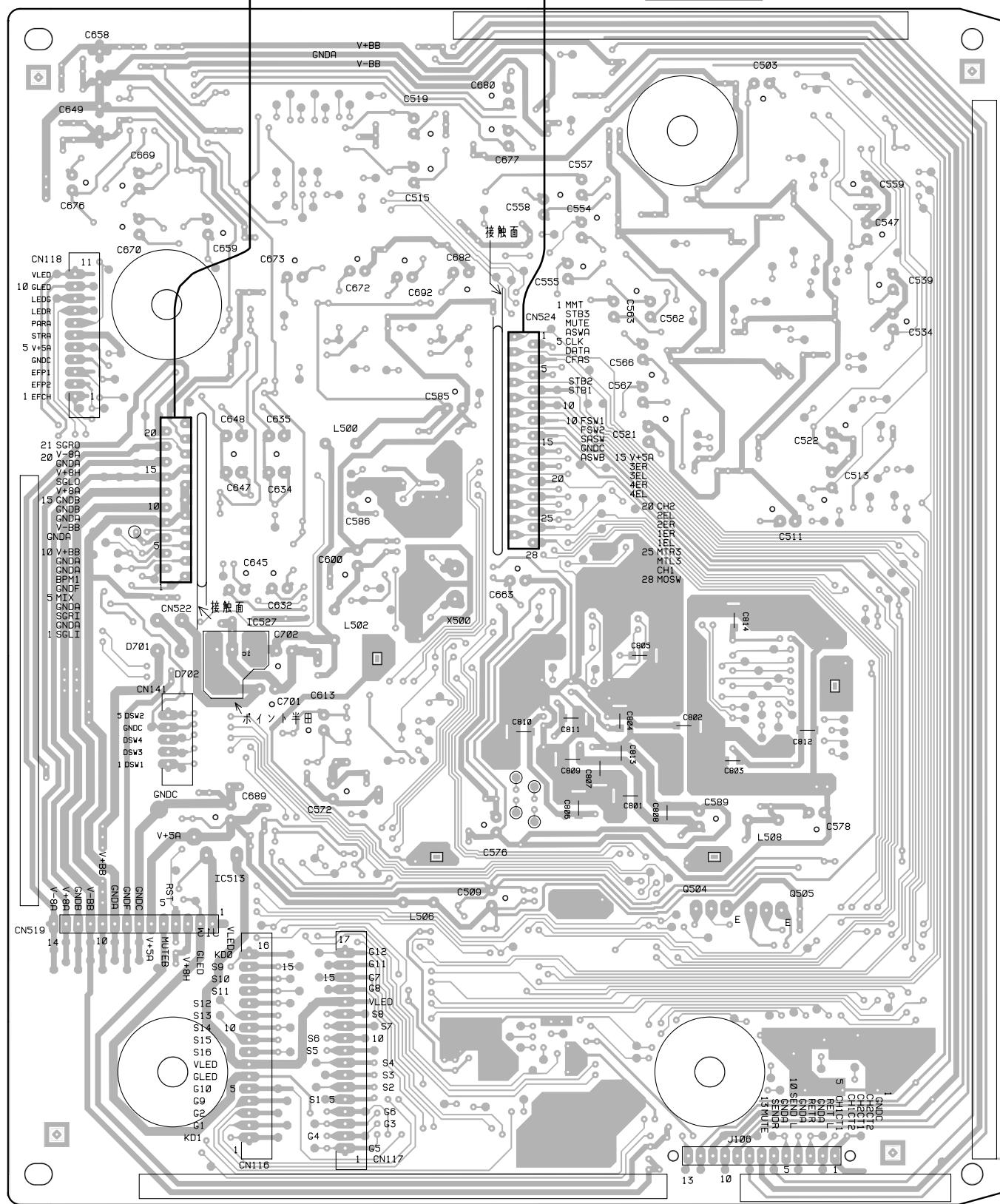


The logo consists of a large, bold, black 'O' on the left, followed by the text 'DIGITAL SW ASSY' in a smaller, black, sans-serif font.



M CN141

DJM-600**4.6 DSP ASSY****M DSP ASSY****SIDE A****O J141 N J118****M****P J117****P J116****Q CN119**

M DSP ASSY**D CN122****SIDE B**

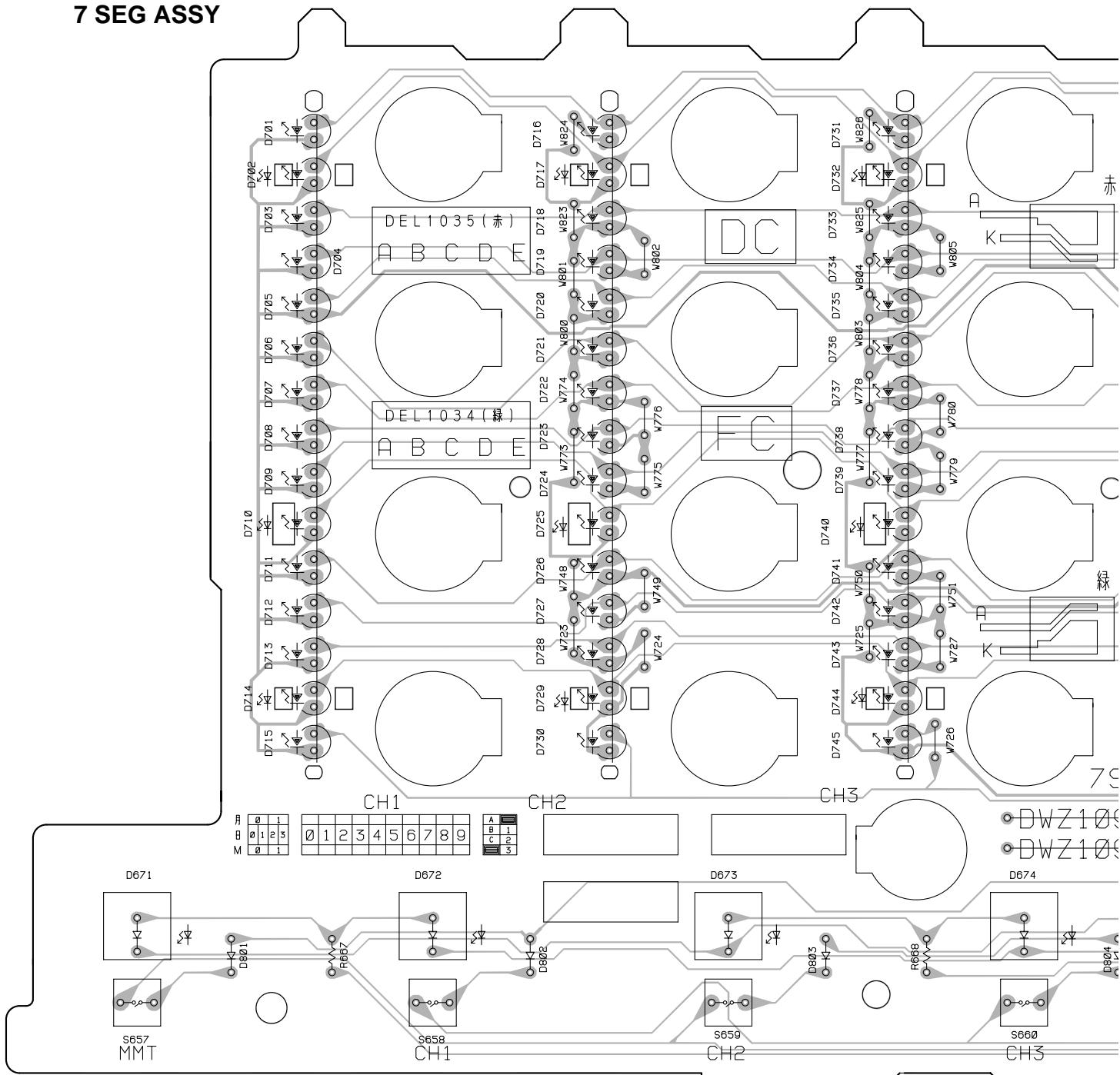
(DNP1923-B)

4.7 7SEG ASSY

SIDE A

P

7 SEG ASSY



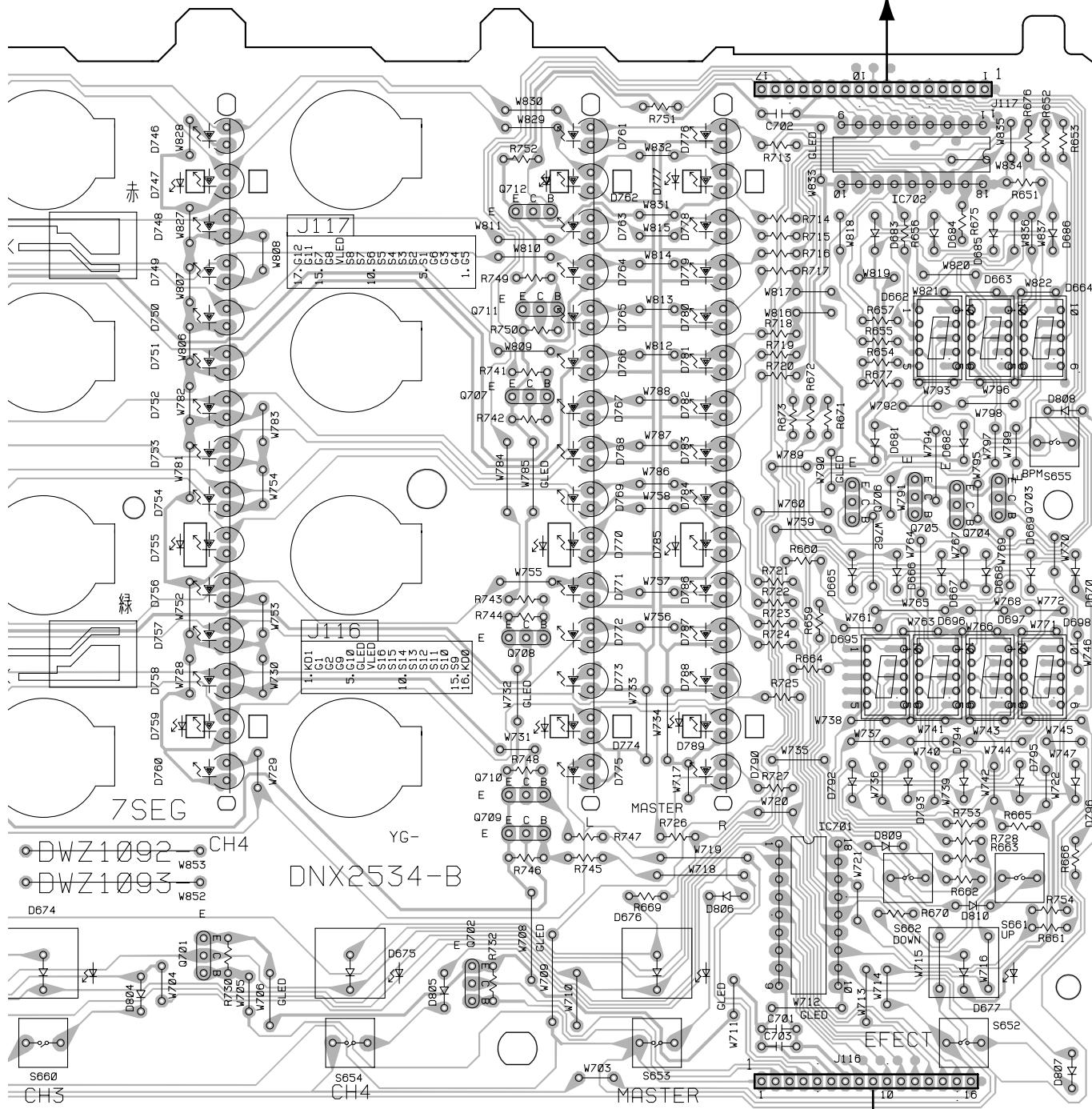
SIDE A

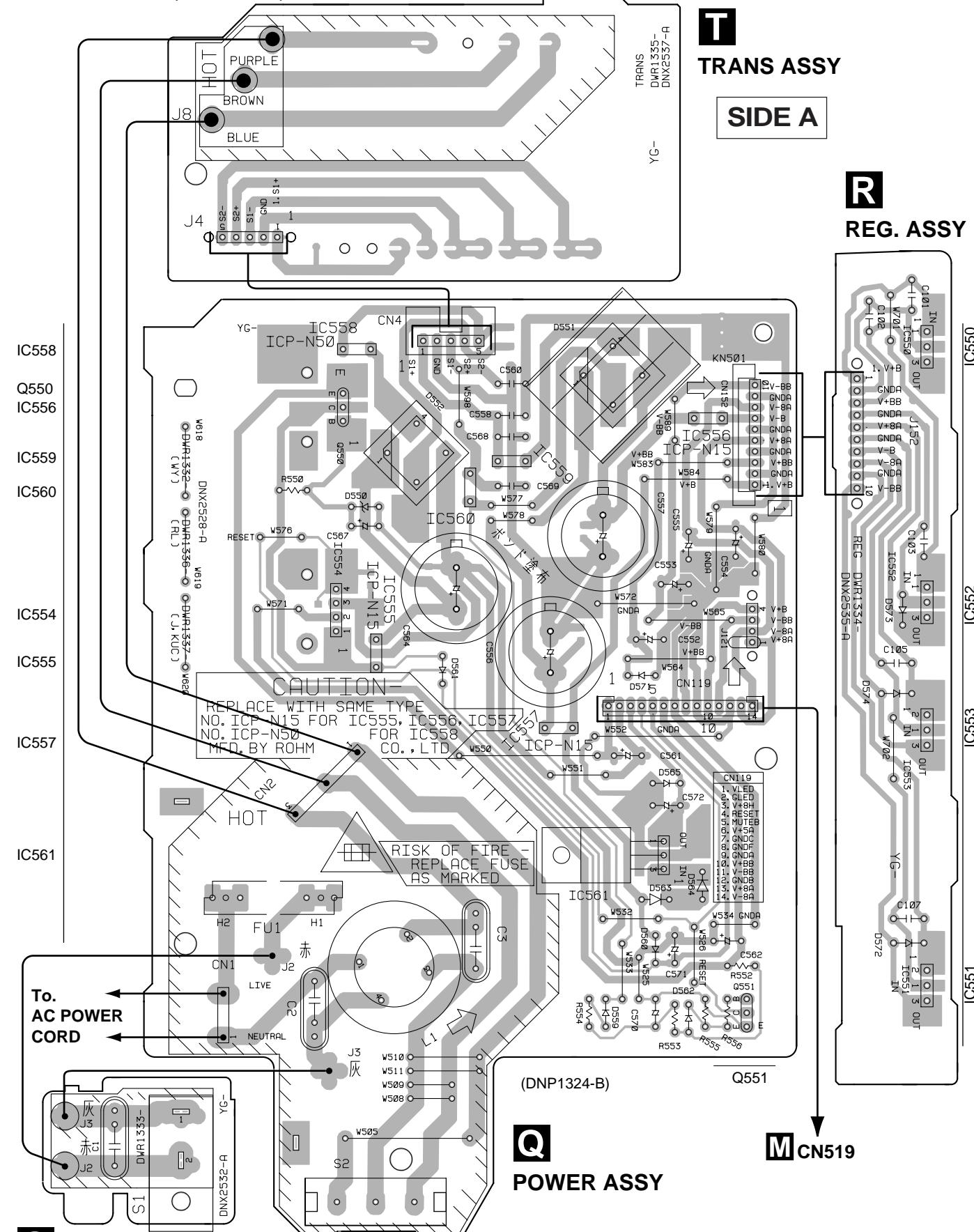
M CN117

M CN116

(DNP1925-B)

P





S POWER SW ASSY

Q

R

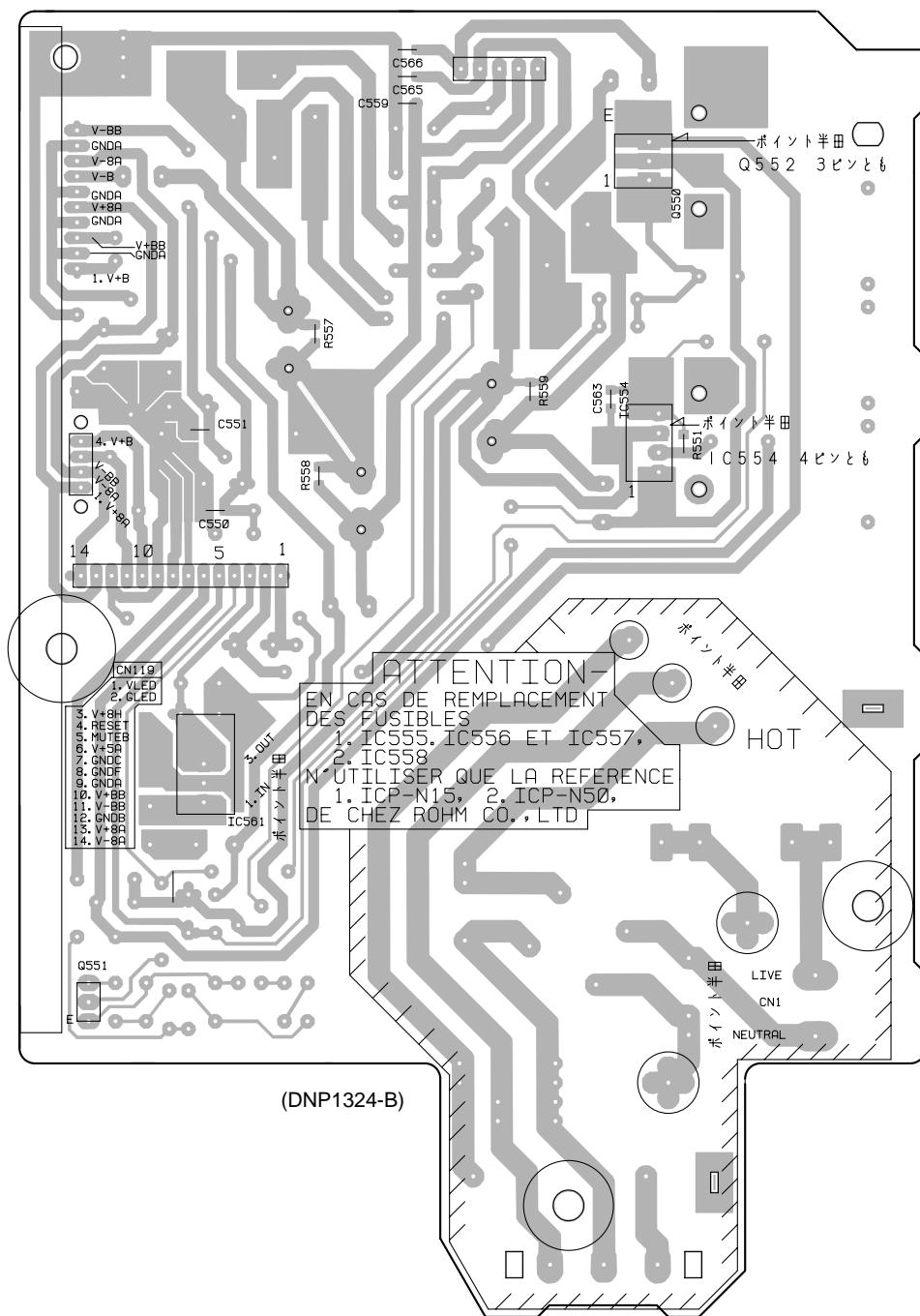
S1

1

SIDE B

Q

POWER ASSY



Q

57

5. PCB PARTS LIST

NOTES : • Parts marked by “ NSP ” are generally unavailable because they are not in our Master Spare Parts List.

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

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

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

$560 \Omega \rightarrow 56 \times 10^1 \rightarrow 561$ $RD1/4PU [5] [6] [1] J$

$47k \Omega \rightarrow 47 \times 10^3 \rightarrow 473$ $RD1/4PU [4] [7] [3] J$

$0.5 \Omega \rightarrow R50$ $RN2H [R] [5] [0] K$

$1 \Omega \rightarrow IR0$ $RS1P [1] [R] [0] K$

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

$5.62k \Omega \rightarrow 562 \times 10^3 \rightarrow 5621$ $RNI/4PC [5] [6] [2] [1] F$

5.1 LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.			Remarks
		DJM600 /KUC	DJM-600 /RL	DJM-600 /WY	
	DSP ASSY	DWX1999	DWX1999	DWX1999	
NSP	VR ASSY -MIC JACK ASSY -HP JACK ASSY -VR ASSY	DWM2109 DWZ1087 DWZ1088 DWG1517	DWM2109 DWZ1087 DWZ1088 DWG1517	DWM2109 DWZ1087 DWZ1088 DWG1517	
NSP	SUB ASSY -C.F ASSY -FADER VR (CH1) ASSY -FADER VR (CH2) ASSY -FADER VR (CH3) ASSY -FADER VR (CH4) ASSY -FADER VR (MAIN) ASSY	DWX2069 DWG1519 DWG1521 DWG1522 DWG1523 DWG1524 DWG1520	DWX2069 DWG1519 DWG1521 DWG1522 DWG1523 DWG1524 DWG1520	DWX2069 DWG1519 DWG1521 DWG1522 DWG1523 DWG1524 DWG1520	DWX2001 DWG1519 DWG1521 DWG1522 DWG1523 DWG1524 DWG1520
NSP	DIGITAL SW ASSY	DWG1525	DWG1525	DWG1525	
NSP	-REG. ASSY	DWR1334	DWR1334	DWR1334	
NSP	-TRANS ASSY	DWR1335	DWR1335	DWR1335	
	-7 SEG ASSY	DWZ1093	DWZ1093	DWZ1092	
NSP	POWER ASSY	DWX2025	DWX2024	DWX2000	
NSP	-EFFECT ASSY	DWG1518	DWG1518	DWG1518	
NSP	-POWER SW ASSY	DWR1333	DWR1333	DWR1333	
	-POWER ASSY	DWR1337	DWR1336	DWR1332	
	-TERMINAL ASSY	DWZ1089	DWZ1089	DWZ1089	
	-PHONE ASSY	DWZ1090	DWZ1090	DWZ1090	
NSP	-BAL.OUT ASSY	DWZ1091	DWZ1091	DWZ1091	

■ CONTRAST OF PCB ASSEMBLIES

P 7 SEG ASSY

DWZ1093 and DWZ1092 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		DWZ1093	DWZ1092	
	D707- D715, D722- D730, D737- D745 D752- D760, D767- D775, D782- D790	DEL1037	DEL1038	

Q POWER ASSY

DWR1337, DWR1336 and DWR1332 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		DWR1337	DWR1336	DWR1332	
\triangle	S2 (Voltage Selector)	Not used	DSA1026	Not used	

Mark No.	Description	Part No.	Mark No.	Description	Part No.
5.2 PARTS LIST FOR DJM-600/KUC					
D VR ASSY					
SEMICONDUCTORS					
IC115, IC116	BU4053BCF	C467, C468, C495, C496	CEAL100M16		
IC107, IC108	M5283P	C314, C369, C370	CEAL330M25		
IC301	NJM2068M	C1403, C1404, C417, C418	CEAL470M16		
IC310, IC312	NJM4556AD	C445, C446, C473, C474	CEAL470M16		
IC106, IC112, IC113, IC121, IC122	NJM4558MD	C243–C246	CEALNPR33M50		
IC124, IC305	NJM4558MD	C125–C128, C149, C150	CEJA100M16		
IC109, IC110, IC200, IC202–IC205	NJM4580ED	C155, C156,	CEJA100M16		
IC302–IC304, IC306, IC307, IC309	NJM4580ED	C181, C182	CEJA101M16		
IC401–IC420	NJM4580ED	C377, C378	CEJA330M25		
IC201	TC4S66F	C363–C366			
IC101, IC102, IC105	TC9162AF	C407, C408, C435, C436	CEWASR47M50		
IC111, IC311	TC9163AF	C463, C464, C491, C492	CEWASR47M50		
IC103, IC104	TC9164AF	C312, C313, C316	CFTNA104J50-TD		
IC308	TC9215AF	C403, C404, C431, C432	CFTNA473J50-TD		
Q303, Q304	2SC2878	C459, C460, C487, C488	CFTNA473J50-TD		
Q103, Q104	2SC3326	C413, C414, C441, C442	CFTNA563J50-TD		
Q801–Q808	2SD2114K	C469, C470, C497, C498	CFTNA563J50-TD		
Q102	DTA124EK	C101, C102, C109–C112	CKSQYB103K50		
Q101	DTC124EK	C123, C124, C129, C130	CKSQYB103K50		
D301–D304	1SS355	C137–C140, C1405–C1414	CKSQYB103K50		
SWITCHES					
S204, S205	DSG1053	C145, C146, C151, C152	CKSQYB103K50		
S201–S203, S206, S301	DSH1036	C157, C158, C161, C162	CKSQYB103K50		
S101	DSH1050	C165, C166, C183, C184	CKSQYB103K50		
S401–S404	DSK1010	C187–C196, C201–C204	CKSQYB103K50		
CAPACITORS					
C104, C105, C107, C108	CCSQCH101J50	C207–C210, C215, C216	CKSQYB103K50		
C132, C133, C135, C136	CCSQCH101J50	DSG1053	CKSQYB103K50		
C142, C143, C172, C173	CCSQCH101J50	DSH1036	CKSQYB103K50		
C386, C387	CCSQCH101J50	DSH1050	CKSQYB103K50		
C103, C106, C131, C134, C141	CCSQCH102J50	DSK1010	CKSQYB103K50		
C171, C385	CCSQCH102J50	C231, C232, C241, C242	CKSQYB103K50		
C373, C374	CCSQCH270J50	C309, C310, C317–C320	CKSQYB103K50		
C311	CCSQCH470J50	C323, C324, C329, C330	CKSQYB103K50		
C163, C164, C174, C185	CCSQSL101J50	C351–C358, C371, C372	CKSQYB103K50		
C367, C368	CCSQSL101J50	C375, C376, C397, C398	CKSQYB103K50		
C113–C116, C1401, C1402	CCSQSL270J50	C419–C428, C447–C456	CKSQYB103K50		
C147, C148, C153, C154	CCSQSL270J50	C475–C484	CKSQYB103K50		
C205, C206, C213, C214	CCSQSL270J50	C119, C120, C144, C221–C223	CKSQYB104K25		
C251, C252, C304, C307	CCSQSL270J50	C381	CKSQYB104K25		
C331, C332, C359–C362	CCSQSL270J50	C801–C808	CKSQYB224K16		
C401, C402, C415, C416	CCSQSL270J50	C197, C198	CKSQYB273K50		
C429, C430, C443, C444	CCSQSL270J50	C315 (4700P/50V)	DCE1008		
C457, C458, C471, C472	CCSQSL270J50	C409, C410, C437, C438 (5600P/50V)	DCE1009		
C485, C486	CCSQSL270J50	C465, C466, C493, C494 (5600P/50V)	DCE1009		
C405, C406, C433, C434	CCSQSL271J50	C321 (6800P/50V)	DCE1010		
C461, C462, C489, C490	CCSQSL271J50	RESISTORS			
C175–C178, C211, C212	CEAL100M16	R379, R380, R953, R954 (43Ω)	DCN1137		
C305, C306, C308,	CEAL100M16	R211, R212, R215, R216, R307	RN1/10SE1001D		
C341–C350, C379, C380	CEAL100M16	R321, R322, R365–R368	RN1/10SE1001D		
C411, C412, C439, C440	CEAL100M16	R373, R374	RN1/10SE1001D		
		R141, R1417–R1419, R142	RN1/10SE1002D		
		R1420–R1428, R1431, R1432	RN1/10SE1002D		
		R255, R256, R310, R311	RN1/10SE1002D		
		R313, R314	RN1/10SE1002D		
		R135, R136, R163, R164	RN1/10SE1003D		
		R169, R170, R173–R178	RN1/10SE1003D		
		R259–R270, R320, R323, R324	RN1/10SE1003D		
		R421, R422, R445, R446	RN1/10SE1003D		
		R471, R472, R495, R496	RN1/10SE1003D		
		R201, R202	RN1/10SE1102D		
		R318	RN1/10SE1201D		

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	R137, R138		RN1/10SE1202D			3P CABLE HOLDER	51048-0300
	R411, R412, R435, R436		RN1/10SE1300D			6P CABLE HOLDER	51048-0600
	R461, R462, R485, R486		RN1/10SE1300D			9P CABLE HOLDER	51048-0900
	R139, R140		RN1/10SE1301D			10P CABLE HOLDER	51048-1000
	R353, R354, R357, R358		RN1/10SE1501D	CN102		CONNECTOR 19P	52492-1920
	R145, R146, R213, R214		RN1/10SE1502D	CN122		CONNECTOR 21P	52492-2120
	R219, R220, R251, R252		RN1/10SE1502D	CN101		CONNECTOR 23P	52492-2320
	R277, R278, R301, R302		RN1/10SE1502D	CN124		CONNECTOR 28P	52492-2820
	R403, R404, R427, R428		RN1/10SE1502D	J133-J135	6P JUMPER WIRE	D20PYY0605E	
	R453, R454, R477, R478		RN1/10SE1502D	J132	9P JUMPER WIRE	D20PYY0905E	
	R407, R408, R415, R416		RN1/10SE1800D	J131	10P JUMPER WIRE	D20PYY1005E	
	R431, R432, R439, R440		RN1/10SE1800D	J110	CONNECTOR ASSY	DKP3509	
	R457, R458, R465, R466		RN1/10SE1800D				
	R481, R482, R489, R490		RN1/10SE1800D				
	R387-R390		RN1/10SE1801D				
	R1429, R1430		RN1/10SE2002D				
	R308		RN1/10SE2201D				
	R125-R128, R143, R144		RN1/10SE2202D	Q2173, Q2174		2SC1740S	
	R159-R162, R203-R210		RN1/10SE2202D	D2171, D2172		BR3889S	
	R217, R218, R225-R228		RN1/10SE2202D	D2173, D2174		PG3889S	
	R275, R276, R325-R340		RN1/10SE2202D				
	R347-R350, R359-R364		RN1/10SE2202D				
	R309		RN1/10SE2402D	S2172		ASX7011	
	R381, R382		RN1/10SE2701D	S2173		DSG1063	
	R129-R132, R801-R808		RN1/10SE2702D	S2171		DSG1068	
	R391, R392		RN1/10SE3001D				
	R317, R341, R345, R346		RN1/10SE3002D				
	R811-R818		RN1/10SE3002D	VR2701	(10kΩ-B)	DCS1051	
	R303, R304, R312, R315		RN1/10SE3301D	All Resistors		RS1/10S&& J	
	R375, R376		RN1/10SE3602D				
	R257, R258		RN1/10SE3902D				
	R401, R402, R425, R426		RN1/10SE4301D	J118	11P CABLE HOLDER	51048-1100	
	R451, R452, R475, R476		RN1/10SE4301D		11P JUMPER WIRE	D20PYY1115E	
	R253, R254		RN1/10SE4302D				
	R316, R319		RN1/10SE4701D				
	R417, R418, R441, R442		RN1/10SE4702D	VR1	(10kW-B)	DCV1006	
	R467, R468, R491, R492		RN1/10SE4702D				
	R377, R378, R405, R406		RN1/10SE5101D				
	R419, R420, R429, R430		RN1/10SE5101D	CN110	6P CONNECTOR	173979-6	
	R443, R444, R455, R456		RN1/10SE5101D				
	R469, R470, R479, R480		RN1/10SE5101D	VR1005	(10kΩ-B)	DCV1010	
	R493, R494		RN1/10SE5101D				
	R133, R134, R179, R180		RN1/10SE5602D				
	R305, R306, R409, R410		RN1/10SE6202D				
	R433, R434, R459, R460		RN1/10SE6202D				
	R483, R484		RN1/10SE6202D	CN135	6PJUMPER CONNECTOR	52151-0610	
	R351, R352, R355, R356		RN1/10SE7501D				
	R413, R414, R437, R438		RN1/10SE7502D				
	R463, R464, R487, R488		RN1/10SE7502D	D1001		GP1S94	
	VR301 (10kΩ-B)		DCS1050				
	VR302-VR304 (10kΩ-B)		DCS1052				
	VR305, VR402-VR404, VR406-VR408 (10kΩ-B)		DCS1053				
	VR410-VR412, VR414-VR416 (10kΩ-B)		DCS1053				
	VR202, VR306, VR401, VR413 (10kΩ-B)		DCS1054				
	VR201 (10kΩ)		DCS1055				
	Other Resistors		RS1/10S□□□ J				

N EFFECT ASSY

SEMICONDUCTORS

Q2173, Q2174

D2171, D2172

D2173, D2174

2SC1740S

BR3889S

PG3889S

SWITCHES

S2172

S2173

S2171

ASX7011

DSG1063

DSG1068

RESISTORS

VR2701 (10kΩ-B)

All Resistors

DCS1051

RS1/10S&& J

OTHERS

J118 11P CABLE HOLDER

11P JUMPER WIRE

51048-1100

D20PYY1115E

L C.F ASSY

RESISTORS

VR1 (10kW-B)

DCV1006

OTHERS

CN110 6P CONNECTOR

173979-6

E FADER VR (MAIN) ASSY

RESISTORS

VR1005 (10kΩ-B)

DCV1010

OTHERS

CN135 6PJUMPER CONNECTOR

52151-0610

G FADER VR (CH1) ASSY

SEMICONDUCTORS

D1001

GP1S94

RESISTORS

VR1001 (10kΩ-B)

DCV1010

Mark No.	Description	Part No.	Mark No.	Description	Part No.
H	FADER VR (CH2) ASSY		Q	POWER ASSY	
SEMICONDUCTORS			SEMICONDUCTORS		
D1002		GP1S94	△ IC555-IC557 (0.6A)		ICP-N15
RESISTORS			△ IC558 (2A)		ICP-N50
VR1002 (10kΩ-B)		DCV1010	△ IC561	NJM78M08FA	
OTHERS			△ IC554	PQ05RR12	
CN132 3PJUMPER CONNECTOR		52151-0910	Q551	2SC2458	
I	FADER VR (CH3) ASSY		△ Q550		2SD2395
RESISTORS			△ D563, D564		11E2
VR1003 (10kΩ-B)		DCV1010	△ D565, D571	11EQS06	
OTHERS			D562	1SS254	
CN133 6PJUMPER CONNECTOR		52151-0610	△ D550	MTZJ6.2B	
J	FADER VR (CH4) ASSY		△ D552	S2VB20	
RESISTORS			△ D551	S2VB20-F1	
VR1004 (10kΩ-B)		DCV1010	△ D559-D561	S5688G	
OTHERS					
CN134 6PJUMPER CONNECTOR		52151-0610			
O	DIGITAL SW ASSY				
SWITCHES AND RELAYS					
S2174	DSG1067				
OTHERS					
J141	5P CABLE HOLDER 5P JUMPER WIRE	51048-0500 D20PY0520E	C564 C567 C561 C552, C553 C571	CEHAT103M16 CEHAT221M16 CEHAT330M25 CEHAT470M25 CEHAT4R7M50	
S	POWER SW ASSY		C558, C560, C568, C569 C550, C551, C563 C559, C565, C566 C556, C557 (3300μF/35V)	CKCYF103Z50 CKSQYB103K50 CKSQYF103Z50 DCH1132	
SWITCHES AND RELAYS					
△ S1	DSA1028				
CAPACITORS					
△ C1	(10000P/AC250V)	ACG7033	R551 R557-R559 Other Resistors	RS1/10S103J RS1/10S223J RD1/4PU□□□ J	
R	REG. ASSY				
SEMICONDUCTORS					
△ IC550		NJM7815FA	4P CABLE HOLDER	51048-0400	
△ IC552		NJM78M08FA	CN152 10PJUMPER CONNECTOR	52147-1010	
△ IC551		NJM7915FA	△ CN2 3P CONNECTOR	B3P5-VH	
△ IC553		NJM79M08FA	J121 JUMPER WIRE	D20PY0420E	
D573, D574		11EQS06	HEAT SINK	DNG1066	
OTHERS					
J152	10P CABLE HOLDER 10P JUMPER WIRE HEAT SINK VR	51048-1000 D20PY01020E VNH1049	△ CN4 5P CONNECTOR HEAT SINK	KPC5 REF1003	
			△ CN1 H1, H2 AC CODE SOCKET FUSE HOLDER	RKP1751 RKR1003	
			PCB BINDER	VEF1040	
			KN501 PCB BINDER	VNF1084	
T	TRANS ASSY				
OTHERS					
△ J8	5P CABLE HOLDER CONNECTOR ASSEMBLY	51052-0500 DKP3507			
J4	PARALLEL CORD	DXUY0515E			

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
M		DSP ASSY				C600, C659, C669, C670	CEAT470M16
		SEMICONDUCTORS				C676, C677, C680	CEAT470M16
		IC502	AK4520A			C578, C589	CEHAT101M10
		IC515, IC517	BU4053BCF			C513, C522, C534, C539	CEHAT2R2M50
△		IC513 (0.4A)	ICP-N10			C515, C519, C554, C555	CEJA100M16
		IC500	KM48V2100CS-6			C557, C558, C562, C563	CEJA100M16
△		IC526	M5237ML			C566, C567, C586, C632, C645	CEJA100M16
		IC520, IC521	NJM2100M			C673, C692	CEJA100M16
		IC123, IC505, IC511, IC512, IC514	NJM4558MD			C672, C682	CEJA221M6R3
		IC518, IC519, IC523	NJM4558MD			C503, C547, C559	CEJA2R2M50
△		IC527	NJM78M05FA			C572	CEJA4R7M50
		IC510	PE5156B			C574	CKSQYB102K50
		IC516	TC74HC74AF			C191, C192, C500, C501	CKSQYB103K50
		IC506	TC74HCT7007AF			C506, C507, C512, C524, C525	CKSQYB103K50
		IC501	TC7S04F			C529, C530, C532, C533, C537	CKSQYB103K50
		IC503, IC509	TC7WU04F			C540, C542, C544, C548–C553	CKSQYB103K50
		IC507	TC9163AF			C556, C560, C561, C568–C571	CKSQYB103K50
		IC504	XCB56364			C577, C588, C591, C614, C623	CKSQYB103K50
		Q508	2SB1132			C633, C671, C674, C681, C694	CKSQYB103K50
		Q505	2SC1740S			C699, C700, C703, C704, C732	CKSQYB103K50
		Q504	2SC2458			C798, C799	CKSQYB103K50
		Q500, Q501, Q506, Q507	DTC124EK			C510, C514, C517, C518, C523	CKSQYB104K25
		D701, D702	11E2			C527, C531, C535, C564, C565	CKSQYB104K25
		D500–D502, D504, D505	1SS355			C573, C575, C579, C582, C584	CKSQYB104K25
		D507–D510, D512–D515, D517	1SS355			C587, C592, C599, C627, C678	CKSQYB104K25
		D519–D527, D532	UDZS5.6B			C683, C688	CKSQYB104K25
		D503, D506, D511, D516, D518	UDZS5.6B			C504, C520	CKSQYB473K50
		D533	UDZS5.6B			C662	CKSRYB103K50
		L507	ATL7002			C594, C595, C597, C610	CKSRYB104K16
		L503	DTL1024			C617, C618, C621, C629, C631	CKSRYB104K16
		L500, L502	LFA101J			C636, C639, C641, C643, C651	CKSRYB104K16
		L504, L505, L510	QTL1013			C654, C655, C657, C666, C686	CKSRYB104K16
						C664	CKSRYB562K50
COILS AND FILTERS							
		C622, C646	CCSQCH100D50			R665, R666, R683, R688, R757 (82Ω)	ACN7049
		C690	CCSQCH102J50			R747–R753 (1kΩ)	ACN7060
		C505, C516, C625, C626	CCSQCH150J50			R754 (47kΩ)	ACN7077
		C580, C581, C615	CCSQCH221J50			R501	RN1/10SE1001D
		C526, C528, C536, C538, C541	CCSQCH470J50			R502, R508, R705, R710	RN1/10SE1002D
		C543, C545, C546	CCSQCH470J50			R712, R713, R724, R733–R735	RN1/10SE1002D
		C691, C698	CCSQSL101J50			R680, R689	RN1/10SE1202D
		C679, C684	CCSQSL152J50			R707, R708, R716, R721, R727	RN1/10SE2202D
		C660, C661, C693, C695	CCSQSL270J50			R731	RN1/10SE2202D
		C502, C508	CCSQSL470J50			R505, R517	RN1/10SE2702D
		C596, C598, C608, C609, C616	CCSRCH101J50			R714, R718, R719, R725	RN1/10SE3300D
		C619, C620, C628, C630	CCSRCH101J50			R529, R530, R679, R694	RN1/10SE4702D
		C637, C638, C642, C644, C650	CCSRCH101J50			R673, R684	RN1/10SE6802D
		C652, C653, C656, C668	CCSRCH101J50			R709, R732	RN1/10SE8201D
		C687	CCSRCH221J50			R504	RN1/10SE9101D
		C511, C521	CEANP100M16			R655	RS1/10S4301F
		C701	CEAT100M50			R654	RS1/10S7501F
		C509, C576, C585, C613, C663	CEAT101M10			R682	RS1/16S0R0J
		C689	CEAT101M10			R726	RS1/16S105J
		C702	CEAT221M6R3			R548	RS1/16S151J
						R601, R664, R677, R706	RS1/16S473J
						Other Resistors	RS1/10S□□□J

Mark No.	Description	Part No.	Mark No.	Description	Part No.
OTHERS					
CN141	13P CABLE HOLDER	51048-1300	C841, C842, C850, C901, C902	CKSQYB103K50	
CN118	5P JUMPER CONNECTOR	52147-0510	C905, C907, C909, C911	CKSQYB103K50	
CN116	11PJUMPER CONNECTOR	52147-1110	C913, C914, C917-C920	CKSQYB103K50	
CN117	16PJUMPER CONNECTOR	52147-1610	C990-C993	CKSQYB103K50	
	17PJUMPER CONNECTOR	52147-1710	C843-C846	CQMA152J50	
CN522	CONNECTOR 21P	52492-2120	C805, C806, C816, C817	CQMA222J50	
CN524	CONNECTOR 28P	52492-2820	C827, C828	CQMA222J50	
J106	13P WIRE	D20PYY1340E	C807, C808, C818, C819	CQMA681J50	
X502	4.19MHz	DSS1105	C829, C830	CQMA681J50	
X501	20MHz	DSS1110			
X500	16.9344MHz	PSS1008			
K MIC JACK ASSY					
CAPACITORS					
C301	CKSQYB103K50		R873	RD1/4PU102J	
OTHERS			R821, R822, R833, R834	RD1/4PU332J	
J120	3P CABLE HOLDER	51048-0300	R845, R846	RD1/4PU332J	
CN301	JUMPER WIRE	D20PYY0310E	R867-R870, R877, R878	RN1/10SE1000D	
	CONNECTOR	DKN1136	R880-R883	RN1/10SE1000D	
F HP JACK ASSY					
CAPACITORS					
C382	CKCYF103Z50		R819, R820, R831, R832	RN1/10SE1001D	
OTHERS			R843, R844	RN1/10SE1001D	
J109	3P CABLE HOLDER	51048-0300	R827, R828, R839, R840	RN1/10SE1203D	
JA302	JUMPER WIRE	D20PYY0310E	R851, R852	RN1/10SE1203D	
	PHONE JACK	DKN1136	R801-R804, R809, R810	RN1/10SE1302D	
A TERMINAL ASSY			R813, R814, R890, R891	RN1/10SE1302D	
SEMICONDUCTORS			R805-R808, R811, R812	RN1/10SE1502D	
IC801-IC803	IC804 NJM4580D	NJM2068M	R815, R816, R892, R893	RN1/10SE1502D	
IC805-IC809	IC810 TC9215AF	NJM4580ED	R912, R913	RN1/10SE1502D	
Q801-Q808		2SC3326	R857-R860, R865, R866	RN1/10SE4300D	
D801-D804		1SS355			
COILS AND FILTERS			R907, R908	RN1/10SE4300D	
△ L801-L804		VTL1105	R871, R872	RN1/10SE4302D	
CAPACITORS			R1801, R1802, R1807, R1808	RN1/10SK7503D	
C851-C882, C891-C894	C994-C997	CCSQL101J50	R1813, R1814, R825, R826	RN1/10SK7503D	
C803, C804, C809, C810	C814, C815, C820, C821	CEANPR33M50	R837, R838, R849, R850	RN1/10SK7503D	
C825, C826, C831, C832		CEAT100M50			
C883-C890, C895, C896	C915, C916, C921-C924, C933	CEAT100M50			
C935-C942, C944	C801, C802, C812, C813	CEAT100M50			
C823, C824		CEAT220M25			
C903, C904		CEAT220M25			
C1901-C1903, C822, C898, C906		CEJA100M16			
C925, C927, C929, C931		CKCYF103Z50			
C837, C840		CKCYF473Z50			
C833, C835, C836, C838, C839		CKSQYB103K50			
OTHERS					
CN107	7P JUMPER CONNECTOR	52147-0710			
CN106	13P JUMPER CONNECTOR	52147-1310			
CN15116P	JUMPER CONNECTOR	52147-1610			
CN801-CN804, CN807	4P PIN JACK	AKB7015			
CN112	19P CONNECTOR	HLEM19S-1			
CN111	23P CONNECTOR	HLEM23S-1			
JA805, JA806	REMO. JACK	RKN1004			
	PCB BINDER	VEF1040			
KN801	EARTH METAL FITTING	VNF1084			

Mark No.	Description	Part No.
B	PHONE ASSY	
	SEMICONDUCTORS	
IC604		BU4066BC
IC605		NJM2068D
IC231		NJM4556AD
IC232, IC233		NJM4556AL
IC601–IC603		NJM4558DX
IC606		NJM4580D
Q231–Q234, Q602–Q613		2SC2878
Q601		DTA124ES
D1601–D1608		1SS355
CAPACITORS		
C604		CCCSL220J50
C642–C645		CCCSL270J50
C233–C240		CCSQCH151J50
C602, C613, C614, C621, C622		CCSQSL101J50
C629, C630, C646–C652		CCSQSL101J50
C253, C254		CEALNPR33M50
C640, C641, C661–C664		CEANPR33M50
C603, C607–C609, C619, C620		CEAT100M50
C625, C626, C631, C632		CEAT100M50
C636, C637, C653, C654, C656		CEAT100M50
C243–C246		CEAT101M25
C601, C660		CGCYX104K25
C612, C635		CKCYF103Z50
C634		CKCYF473Z50
C1201, C1202, C231, C232, C241		CKSQYB103K50
C247, C605, C606, C610, C611		CKSQYB103K50
C617, C618, C623, C624		CKSQYB103K50
C627, C628, C638, C639		CKSQYB103K50
RESISTORS		
R253–R256		RN1/10SE1003D
R265, R266, R675, R676		RN1/10SE1502D
R233–R240		RN1/10SE2201D
R249–R252		RN1/10SE2700D
R631–R634		RN1/10SE4300D
R1601–R1604		RN1/10SE4302D
R241–R248		RN1/10SE5101D
R1606–R1608, R1610–R1612		RS1/10S0R0J
R635, R636, R659, R660		RS1/10S104J
R663, R664		RS1/10S104J
R614, R658, R673, R674		RS1/10S473J
R261–R264, R637–R640		RS1/10S912J
R651–R654, R657, R668–R670		RS1/10S912J
Other Resistors		RD1/4PU&& J
OTHERS		
	7P CABLE HOLDER	51048-0700
	16P CABLE HOLDER	51048-1600
CN121	4P JUMPER CONNECTOR	52147-0410
CN108	6P JUMPER CONNECTOR	52147-0610
J107	7P JUMPERWIRE	D20PYY0710E
J151	16P JUMPERWIRE	D20PYY1610E
JA607	MIC JACK	DKN1189
JA605	2P PINJACK	VKB1031
JA601–JA604	MIC JACK	VKN1147
KN601	EARTH METAL FITTING	VNF1084

Mark No.	Description	Part No.
C	BAL. OUT ASSY	
	CAPACITORS	
C249-C252		CKCYF103Z50
	RESISTORS	
All Resistors		RD1/4PU□□□ J
	OTHERS	
J108	6P CABLE HOLDER	51048-0600
JA231, JA232	6P JUMPER WIRE	D20PYY0610E
	3P CONNECTOR	DKN1201
P	7 SEG ASSY	
	SEMICONDUCTORS	
IC701, IC702		LB1740
Q701-Q712		2SD1919
D801-D810		1SS254
D707-D715, D722-D730		DEL1037
D737-D745, D752-D760		DEL1037
D767-D775, D782-D790		DEL1037
D701-D706, D716-D721		DEL1039
D731-D736, D746-D751		DEL1039
D761-D766, D776-D781		DEL1039
D662-D664, D695-D698		NKR131S
D665-D670, D672-D677		SLR-342DUTB7
D683-D686		SLR-342DUTB7
D671, D681, D682, D792-D796		SLR-342VRTB7
	SWITCHES	
S652-S654, S657-S660		ASG7005
S655, S661, S662		VSG1010
	CAPACITORS	
C702, C703		CKPUYF103Z25
	RESISTORS	
All Resistors		RD1/4PU□□□ J
	OTHERS	
J116	16P JUMPER WIRE	D20PWY1625E
J117	17P JUMPER WIRE	D20PWY1735E
	LEVEL METER HOLDER	DNK3757

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TEST MODE

1. Turn on the power in the following condition. (Fig.1)

FADER START CH1 SW : ON ①

CH2 SW : ON ②

SAMPLER SW : ON ③

EFFECT SW : ON ④

- The lower 7 seg display becomes [F], and can confirm that was entered the test mode.

2. How to use the test mode

- Upper and lower 7 seg displays become [000] and [0000] when pushes up the EFFECT ON/OFF SW. Then the displays will change when pushes the EFFECT ON/OFF SW.

- 7 seg

Displays 0 to 9

- MONITOR LED

Talk over → CH1 → CH2 → CH3 → CH4 → MASTER → EFFECT 1 ...

- * Four LEDs on the upper 7 seg at the time of CH1 to CH4 light, too.

- LEVEL METER

By one turns on order from the lower part.

- EFFECT CH

Turns on order from the left.

- Rhythm LED

Turns on order from the left.

- EFFECT ON/OFF LED

Orange → Green → Red → ...

- Lower 7 seg decimal point

Lights out → Left → Right → ...

- BPM range LED

Lights out → Left → Right → ...

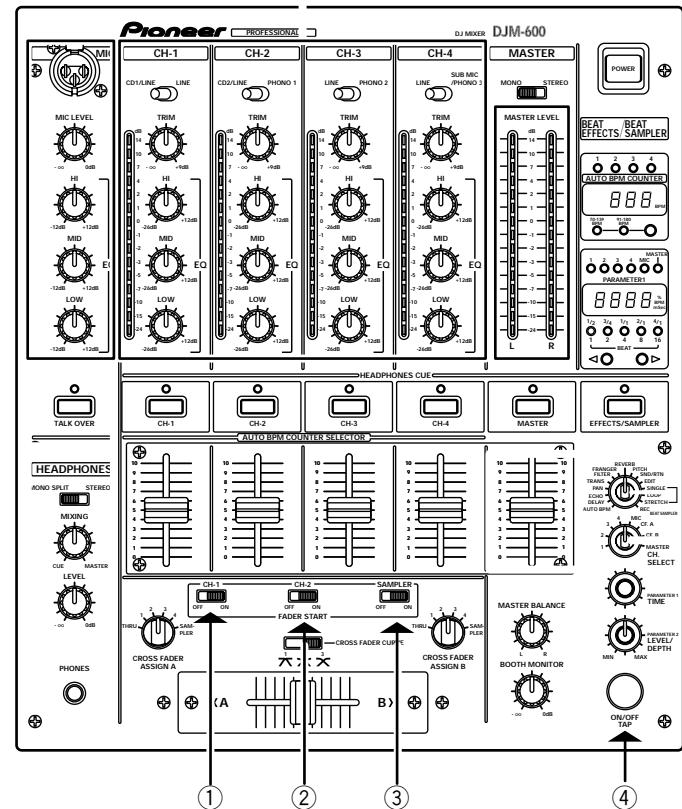
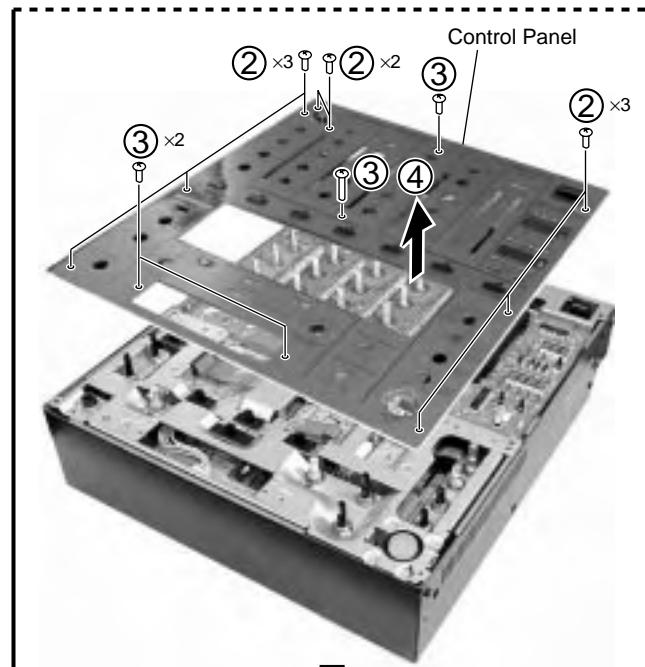
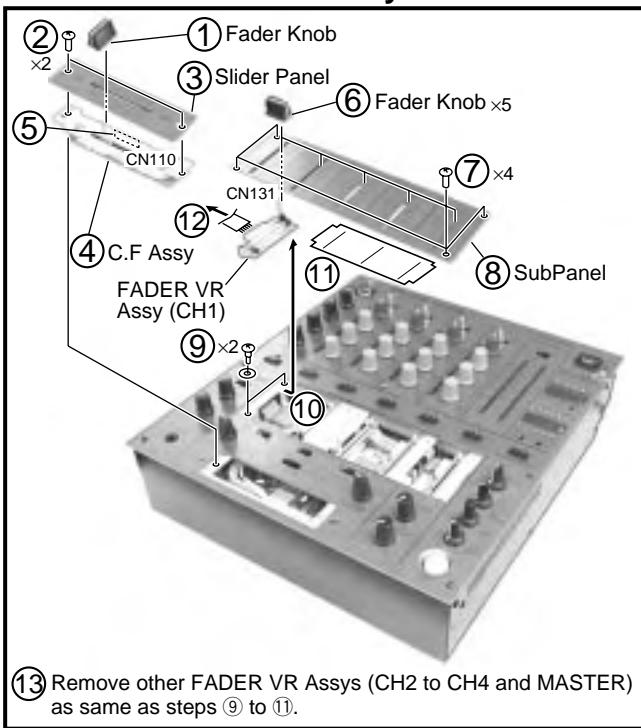


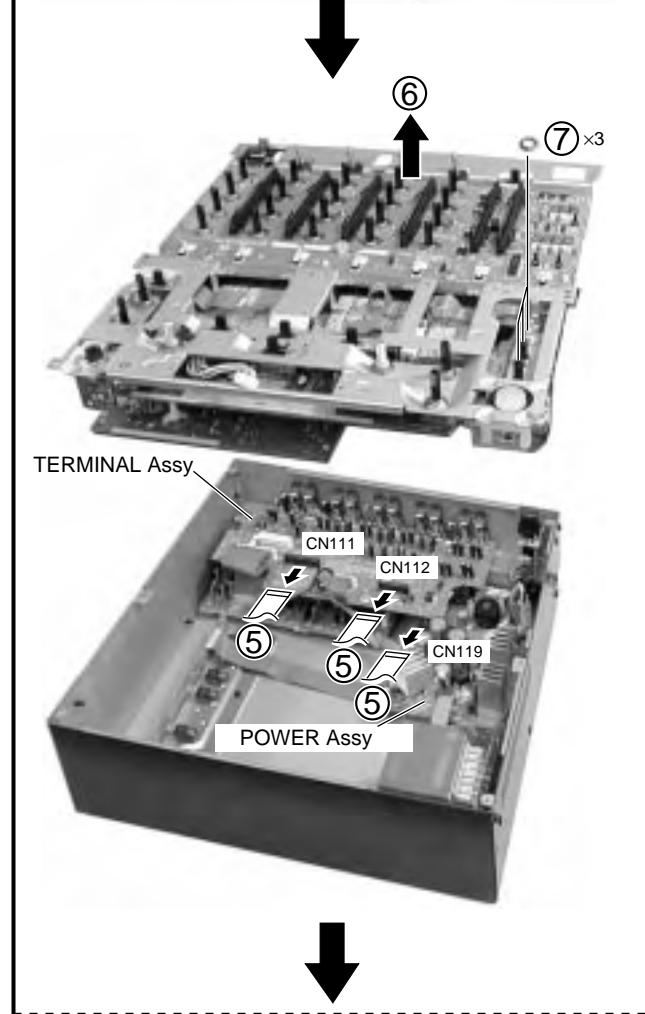
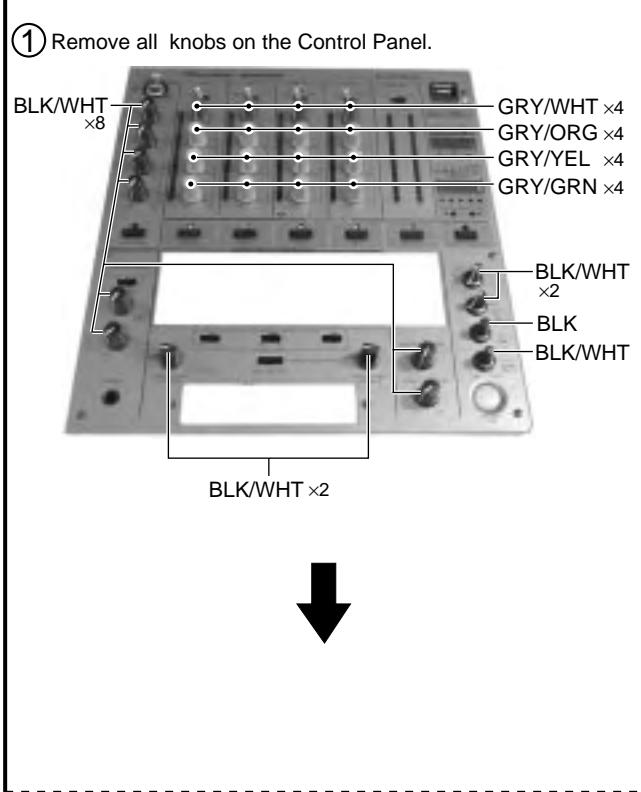
Fig.1

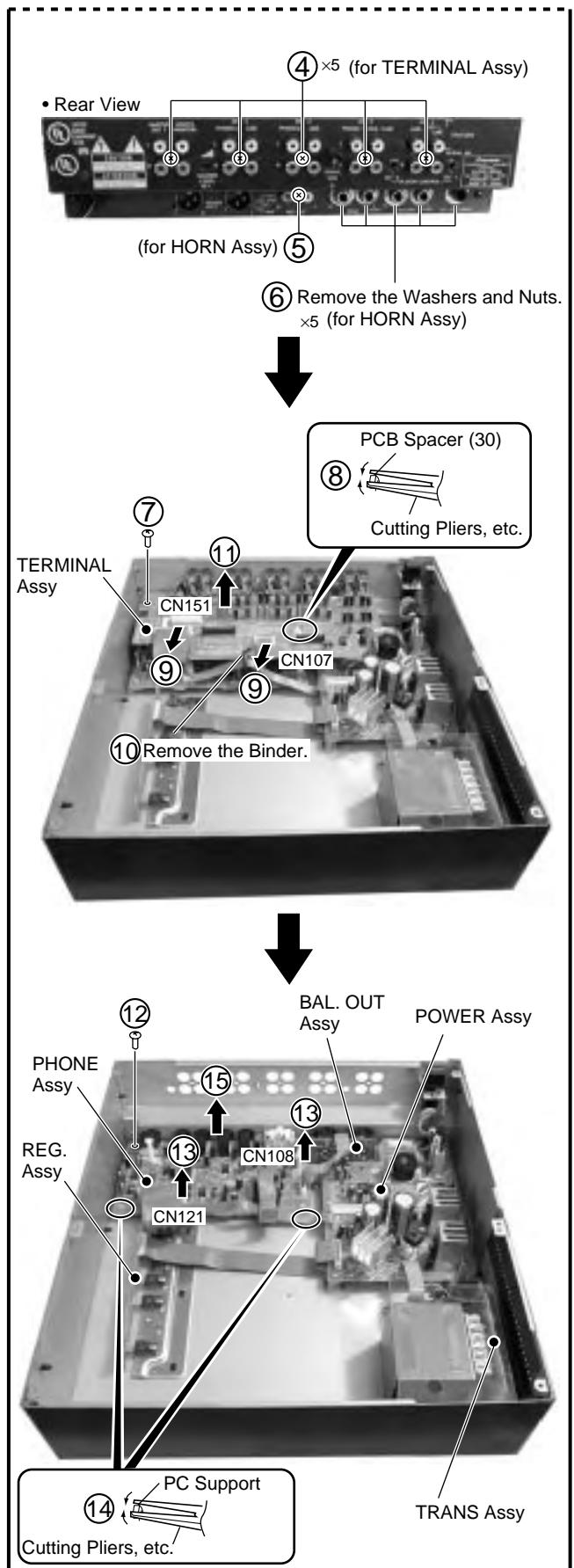
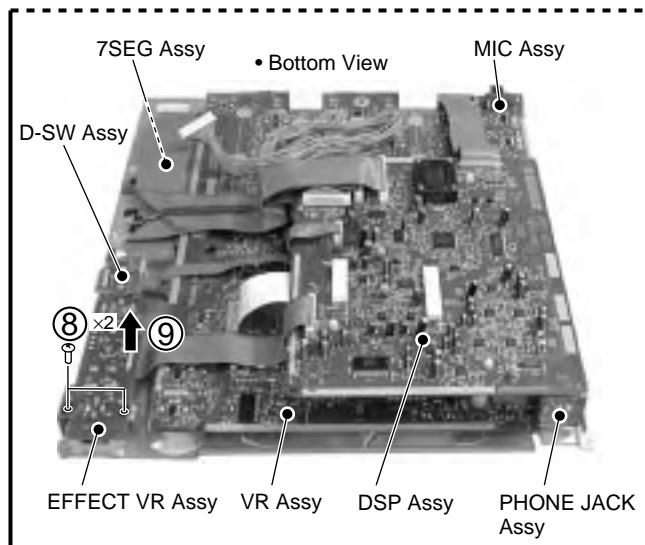
7.1.2 DISASSEMBLY

■CF and FADER VR Assys

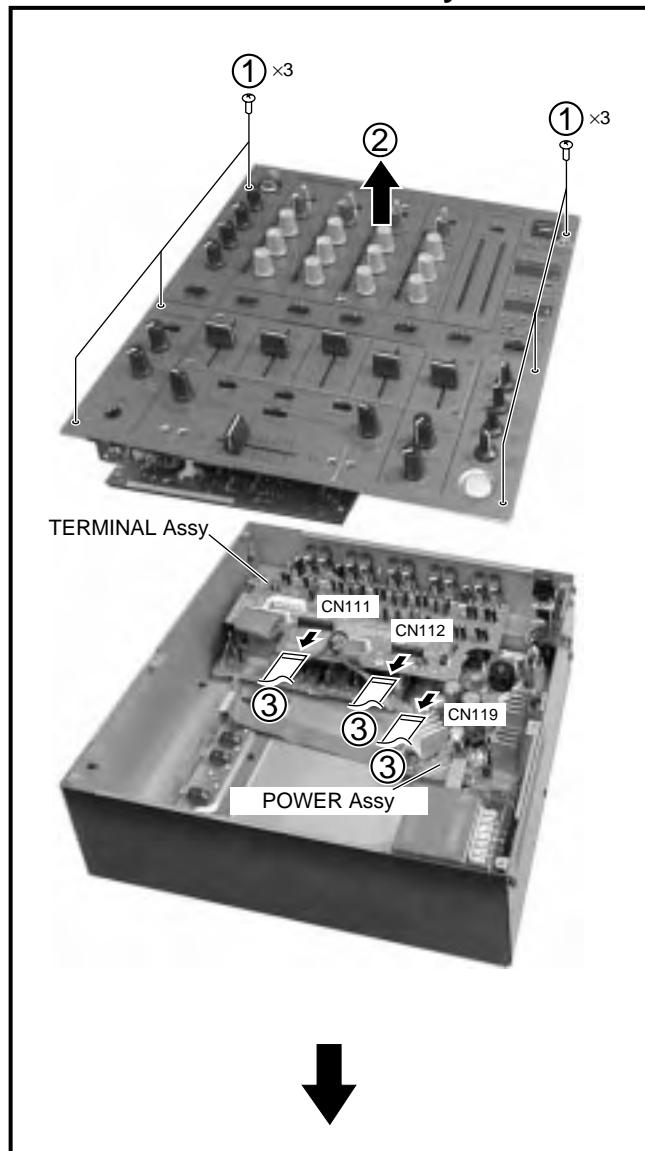


■Control Panel Section and EFFECT VR Assy

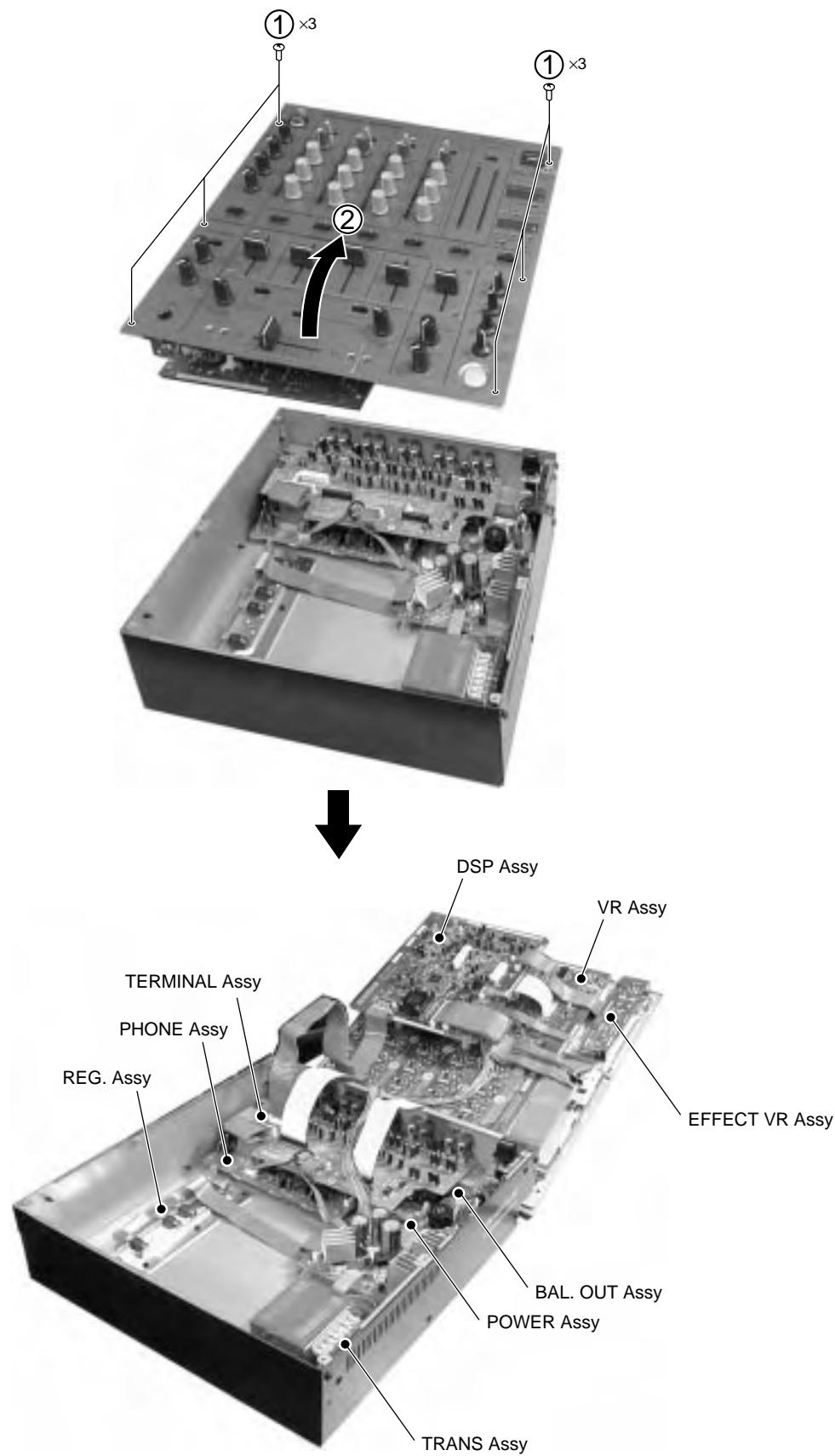




■ TERMINAL and HORN Assys



■ Styling of Diagnosis



7.2 PARTS

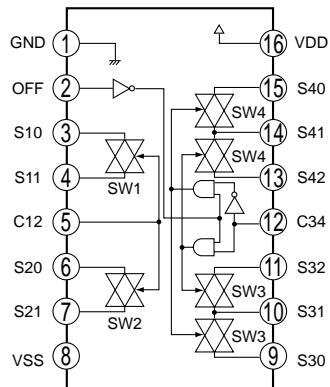
7.2.1 IC

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

■ TC9215AF(VR ASSY : IC308)

• Analog SW

● Block Diagram



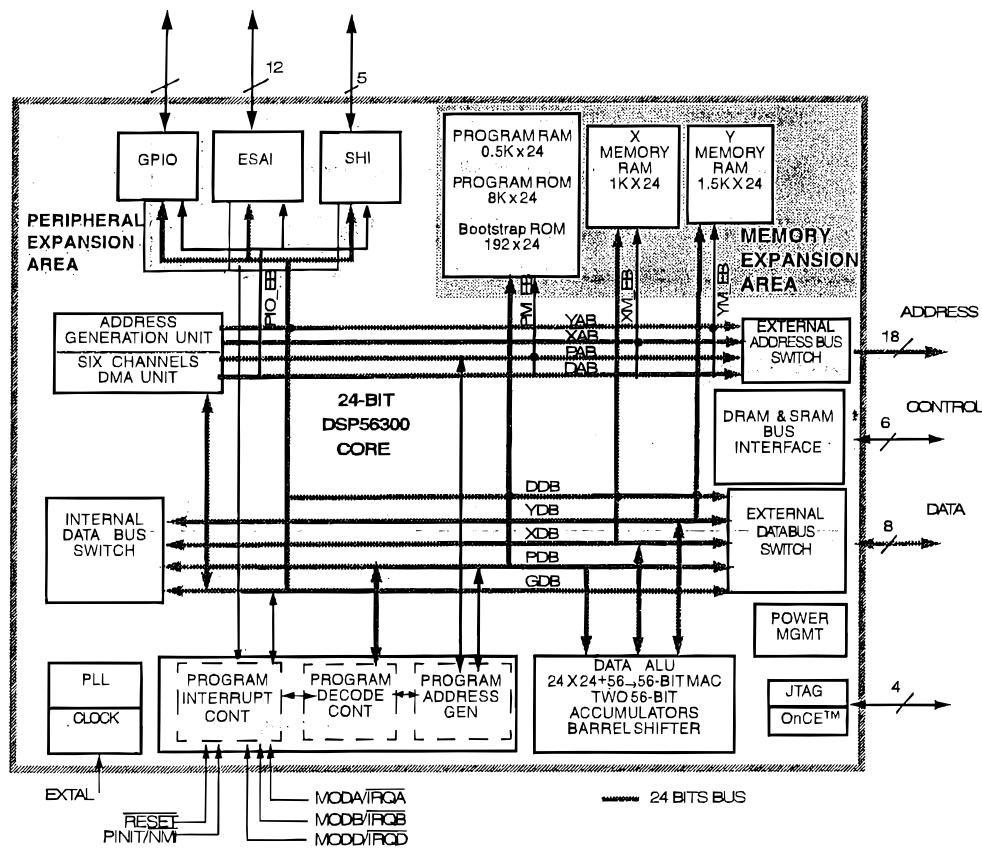
● Pin Function

No.	Pin Name	Function
1	GND	GND
2	OFF	Input terminal (SW3, SW4 off)
3	S10	Input /Output terminal (SW1)
4	S11	
5	C12	Control terminal (SW1, SW2)
6	S20	Input /Output terminal (SW2)
7	S21	
8	VSS	-8V
9	S30	
10	S31	Input /Output terminal (SW3)
11	S32	
12	C34	Control terminal (SW3, SW4)
13	S42	
14	S41	Input /Output terminal (SW4)
15	S40	
16	VDD	+8V

■ XCB56364 (DSP ASSY : IC504)

• 24-Bit Audio Digital Signal Processor

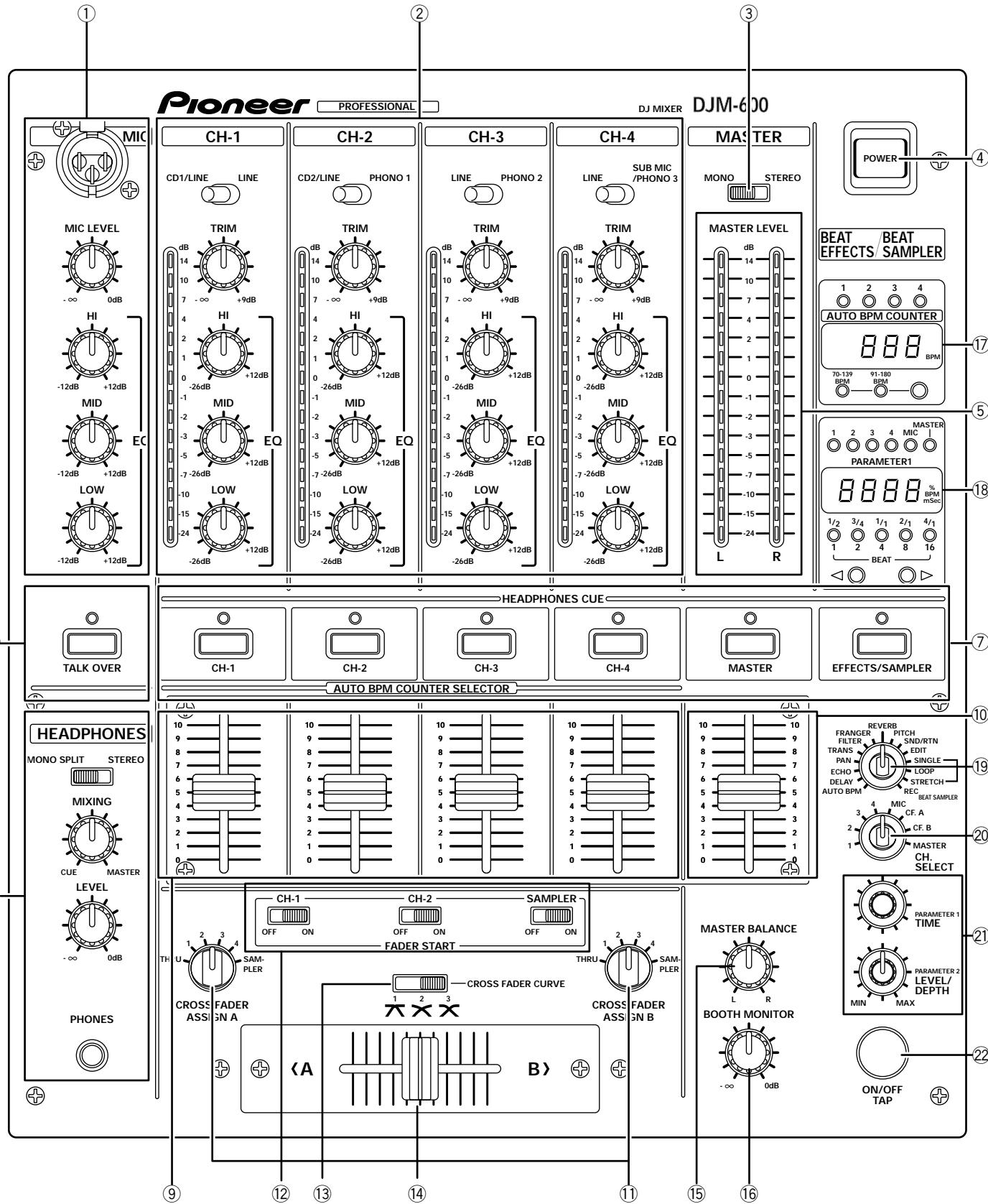
● Block Diagram



8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ CONTROL PANEL



① Main Microphone Input Terminal and Microphone Control Knob

Main Microphone Input Terminal:

For connecting a microphone that has a cannon-type terminal.

MIC LEVEL (microphone level):

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

HI:

Adjusts high-tone microphone sound.
At the center position, sound is flat.
Turn to the right to increase sound (to +12dB at 10kHz).
Turn to the left to decrease sound (to -12dB at 10kHz).

MID:

Adjusts mid-tone microphone sound.
At the center position, sound is flat.
Turn to the right to increase sound (to +12dB at 1kHz).
Turn to the left to decrease sound (to -12dB at 1kHz).

LOW:

Adjusts low-tone microphone sound.
At the center position, sound is flat.
Turn to the right to increase sound (to +12dB at 100Hz).
Turn to the left to decrease sound (to -12dB at 100Hz).

② Input Selector Switches, Control Knobs, and Peak

Level Meters for CH-1 to CH-4

Input Selector Switches:

These switches select what input source to use from among the units connected to each channel.
CH-1: Switches between CD1/LINE and LINE
CH-2: Switches between CD2/LINE and PHONO 1
CH-3: Switches between LINE and PHONO 2
CH-4: Switches between LINE and SUB MIC/PHONO 3

TRIM:

Adjusts the input signal level.
Turn to the right to increase level (to +9dB).
Turn to the left to decrease level (to $-\infty$).

HI:

Adjusts high-tone input sounds.
At the center position, sound will be flat.
Turn to the right to increase sound (to +12dB at 13kHz).
Turn to the left to decrease sound (to -26dB at 13kHz).

MID:

Adjusts mid-tone input sound.
At the center position, sound will be flat.
Turn to the right to increase sound (to +12dB at 1kHz).
Turn to the left to decrease sound (to -26dB at 1kHz).

LOW:

Adjusts low-tone input sound.
At the center position, sound is flat.
Turn to the right to increase sound (to +12dB at 70Hz).
Turn to the left to decrease sound (to -12dB at 70Hz).

Peak Level Meter:

Displays peak level, held for 2 seconds.
Displays level before it is subjected to the channel fader.
Display range: -24dB to +14dB.

③ MONO/STEREO (Master Output Monaural/Stereo Selection Switch)

Used to select either MONO or STEREO for master output.

④ POWER (Power Supply Switch)

⑤ MASTER LEVEL (Master Level Meter)

Displays the output level following master volume adjustment, held for 2 seconds.
Display range: -24dB to +14dB.

⑥ TALK OVER

While this switch is held down, sound levels other than the main microphone's will be lowered to around 14dB.

⑦ HEADPHONES CUE and AUTO BPM COUNTER SELECTOR

HEADPHONES CUE:

Used to select the source (CH-1 to CH-4, MASTER, or EFFECTS/SAMPLER) to be monitored with headphones. Press it again to cancel the selection.
Pressing multiple buttons makes it possible to derive mixed sound from the selected sources.

AUTO BPM COUNTER SELECTOR:

When AUTO BPM has been selected with the effect/sampler selector switch (⑯), the BPM of the selected channel (CH-1 to CH-4) will be displayed on the BPM display (⑰).
BPM will not be displayed correctly if 2 or more channels have been selected.

⑧ Headphone Terminal and Headphone Output Control

Panel

MONO SPLIT/STEREO

(mono split/stereo selector switch):

Used to select whether to split monitor sound on the left and right of the headphones or to keep sound in stereo form.

MONO SPLIT will change headphone output to monaural.

The left channel will be for the sound from the channel selected with HEADPHONES CUE, and the right channel will be the sound output from the master. (This applies only when the master was selected using HEADPHONES CUE.)

MIXING (mixing adjustment knob):

Adjusts headphone monitor sound.

Turn all the way to the right for master output sound. (This applies only when the master was selected using HEADPHONES CUE.)

Turn all the way to the left for the sound from the channel (other than the master) selected with HEADPHONES CUE.

At the center position, the levels for master output and the sound selected with HEADPHONES CUE will be even.

LEVEL (level adjustment knob):

Adjusts headphone monitor sound.

When CH-1 to CH-4 has been selected, the level is not affected by master volume (⑩) or master balance (⑯). PHONES (headphone terminal)

⑨ Channel Fader Volume

Adjusts the volume for CH-1 to CH-4.

⑩ Master Fader Volume

Adjusts the master output sound level. Signals from the channels selected with the ASSIGN switch (⑪) will be output using channel fader volume (⑨) and cross fader volume (⑭), while signals from other channels will be output using channel fader volume.

⑪ CROSS FADER ASSIGN A,

CROSS FADER ASSIGN B

Selects signals assigned to A and B when the cross fader is used with 2 sources (A and B).

- THRУ: Select when not using the cross fader.
1 to 4: Select what channels (CH-1 to CH-4) to assign to A and B.
Channels not assigned to A or B are output without passing through the cross fader.

SAMPLER: Select when using the cross fader to output sound sampled using this unit's effect function, when SINGLE (not STRETCH or LOOP) has been selected with the effect/sampler selector switch (⑯).

⑫ FADER START (Fader Start ON/OFF Switch)

CH-1 and CH-2:

When the unit has been connected with a control cable to a CDJ-100S, CDJ-700S or similar CD player, this is the ON/OFF switch for the function to automatically start playing of the CD player using the channel fader or cross fader.

SAMPLER:

This is the ON/OFF switch for the function to start the unit's built-in sampler using the cross fader.

⑬ CROSS FADER CURVE

(Cross Fader Curve Selection Switch)

Used to select one of 3 cross fader startup curves.

⑭ Cross Fader Volume

Used to adjust the sound mix volume of the sources set to A or B using the ASSIGN switch (⑪).

⑮ MASTER BALANCE Knob

Used to adjust the left-right balance of the master output.

⑯ BOOTH MONITOR Level Knob

Used to adjust the level of the BOOTH MONITOR output terminal on the rear panel.

Level is not affected by the master volume (⑩) and master balance (⑯).

⑰ BPM Display (see page 14)

When AUTO BPM has been selected using the effect/sampler selector switch (⑯), displays BPM for the channel (CH-1 to CH-4) selected using AUTO BPM COUNTER SELECTOR (⑦).

1 to 4:

Displays the channel that is measuring BPM.

AUTO BPM COUNTER:

Displays BPM values.

Flashes while measuring or if unable to measure BPM.

BPM Measurement Range Display/

BPM Measurement Range Selector Switches:

- Used for making selections from the following: 70 to 139, 91 to 180, 70 to 180, and manual mode.
When both LEDs are lit, the 70 to 180 setting applies.
When neither LED is lit, manual mode applies.

Set the BPM band to match the music for which BPM will be measured.

- For details on manual mode, see "Measuring BPM" When the effect/sampler channel selector switch has been used to select something other than AUTO BPM, the BPM of the source selected with the effect/sampler channel selector switch (⑯) will be displayed.

⑯ Effect Parameter and BPM Display

1 to 4, MIC, and MASTER:

Displays the source selected with the effect/sampler channel selector switch (⑯).

When CF. A or CF.B has been selected with the effect/sampler channel selector switch, the channels (1 to 4) selected with the ASSIGN switches (⑮) will light.

PARAMETER (Parameter/BPM Counter):

The display will differ with the setting of the effect/sampler selector switch (⑯).

- When AUTO BPM has been selected, the BPM for the source selected with the effect/sampler channel selector switch will be displayed.
- Display will flash while BPM is being measured or cannot be measured.
- Nothing will be displayed if SEND/RETURN has been selected.
- If something other than AUTO BPM and SEND/RETURN has been selected, the effect value set with effect parameter 1 (⑯) will be displayed.

BEAT (Effect Synchronous Display/Beat Display):

The display will differ with the setting of the effect/sampler selector switch (⑯).

- Nothing will be displayed if AUTO BPM, REVERB, or SEND/RETURN has been selected.
- If PITCH has been selected, the direction of octave modification will be displayed.
- If DELAY, ECHO, PAN, TRANS, FILTER, or FLANGER has been selected, the effector's parameter for source BPM will be displayed in terms of a beat (1/2, 3/4, 1/1, 2/1, or 4/1).
- If SAMPLER has been selected, the number of beats set for recording or playback for the source BPM will be displayed (1, 2, 4, 8, or 16).

Effect Beat Selector Switch:

The value for effect/sampler parameter 1 (⑯) will change in keeping with the BPM for source selected with the effect/sampler channel selector switch (⑯).

The set value will change with the effect/sampler selector switch (⑯) setting.

- Will not function when AUTO BPM, REVERB, or SEND/RETURN has been selected.
- When PITCH has been selected, pressing ▶ will change the pitch setting +33% or +50%, while pressing ◀ will change it -33% or -50%.
- If DELAY, ECHO, PAN, TRANS, FILTER or FLANGER has been selected, the effector's parameter will be set to a beat for source BPM (1/2, 3/4, 1/1, 2/1, or 4/1).
- If SAMPLER has been selected, the number of beats for recording or playback for the source BPM will be displayed (1, 2, 4, 8, or 16).

⑰ Effect/Sampler Selector Switch

Used to select different effects.

⑲ CH. SELECT (Effect/Sampler Channel Selector Switch)

Used to select the source to be effected.

㉑ PARAMETER 1, 2 (Effect/Sampler Parameter 1 and 2 Knobs)

Used to adjust the values of the parameters of the built-in effector and the sampler.

㉒ ON/OFF, TAP (Effect/Sampler ON/OFF Switch and Tap Switch)

Effect will differ with the setting of the effect/sampler selector switch (⑯).

- Functions as the effect's ON/OFF switch if DELAY, ECHO, PAN, TRANS, FILTER, FLANGER, REVERB, PITCH, or SEND/RETURN has been selected.
(OFF: Orange light. ON: Blinking orange light.)
- When AUTO BPM has been selected, it will function as a tap switch, enabling it to be used as a beat counter through manual input. (Selection indicated by orange light.)

When using the tap switch to measure BPM, both LEDs for indicating the BPM measurement range will turn off and manual mode will go into effect.

- Functions as the ON/OFF switch for sampler recording when SAMPLER REC has been selected.
(REC OFF: Red light. REC ON: Blinking red light.)
- Functions as the ON/OFF switch for sampler playback when SAMPLER PLAY has been selected.
(PLAY OFF: Green light. PLAY ON: Blinking green light.)

8.2 SPECIFICATIONS

Audio Section

Input terminal (input level/impedance)	
CD/LINE1–14dBV (200mV)/22kΩ	
PHONO	–54dBV (2mV)/47kΩ
MAIN MIC	–54dBV (2mV)/3kΩ
SUB MIC	–60dBV (1mV)/3kΩ
RETURN	–14dBV (200mV)/22kΩ

Output terminal (output level/impedance)	
MASTER OUT1 (RCA)	0dBV (1V)/1kΩ
MASTER OUT2 (XLR)	4dBm (1.23V)/600Ω
REC OUT (RCA)	–10dBV (1V)/1kΩ
BOOTH MONITOR	0dBV (1V)/1kΩ
SEND	–14dBV (1V)/1kΩ
PHONES	–4dBV (0.63V)/22Ω

Frequency characteristics	
CD/LINE/PHONO/MIC	20Hz to 20kHz

SN ratio	
CD/LINE	87dB (with effects off)
PHONO	77dB
MIC	69dB

Total harmonic distortion rate	
CD/LINE/PHONO	Below 0.02%

Cross talk	Over 70dB
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Channel equalizer	
HI	+12dB, –26dB (13kHz)
MID	+12dB, –26dB (1kHz)
LOW	+12dB, –26dB (70Hz)

Microphone equalizer	
HI	+12dB, –12dB (10kHz)
MID	+12dB, –12dB (1kHz)
LOW	+12dB, –12dB (100Hz)

Effector	
DELAY and ECHO	1 to 3500mSec
PAN, TRANS, FILTER and FLANGER	10 to 16000mSec
REVERB	1 to 100%
PITCH	0 to ±100%

Electrical Section, etc.

Power supply voltage	AC 120V, 60Hz
Power consumption	36W
Operating temperature	+5°C to +35°C
Operating humidity	5% to 85%
External dimensions	320 (W) x 372 (D) x 107 (H) mm 12-19/32 (W) x 14-5/8 (D) x 4-7/32 (H) in
Weight	6.6kg 14lbs 9oz

Accessories

- Short-circuit pin plug 6
- Operating instructions 1
- Warranty 1

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