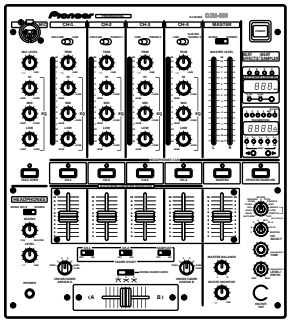
Service Manual



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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T – ZZY NOV. 1999 Printed in Japan

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.

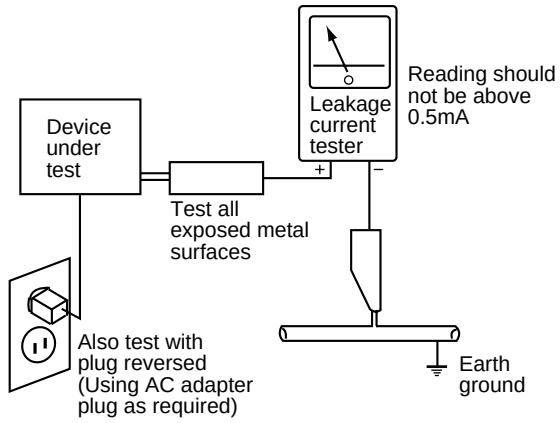
(FOR USA MODEL ONLY)

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.



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

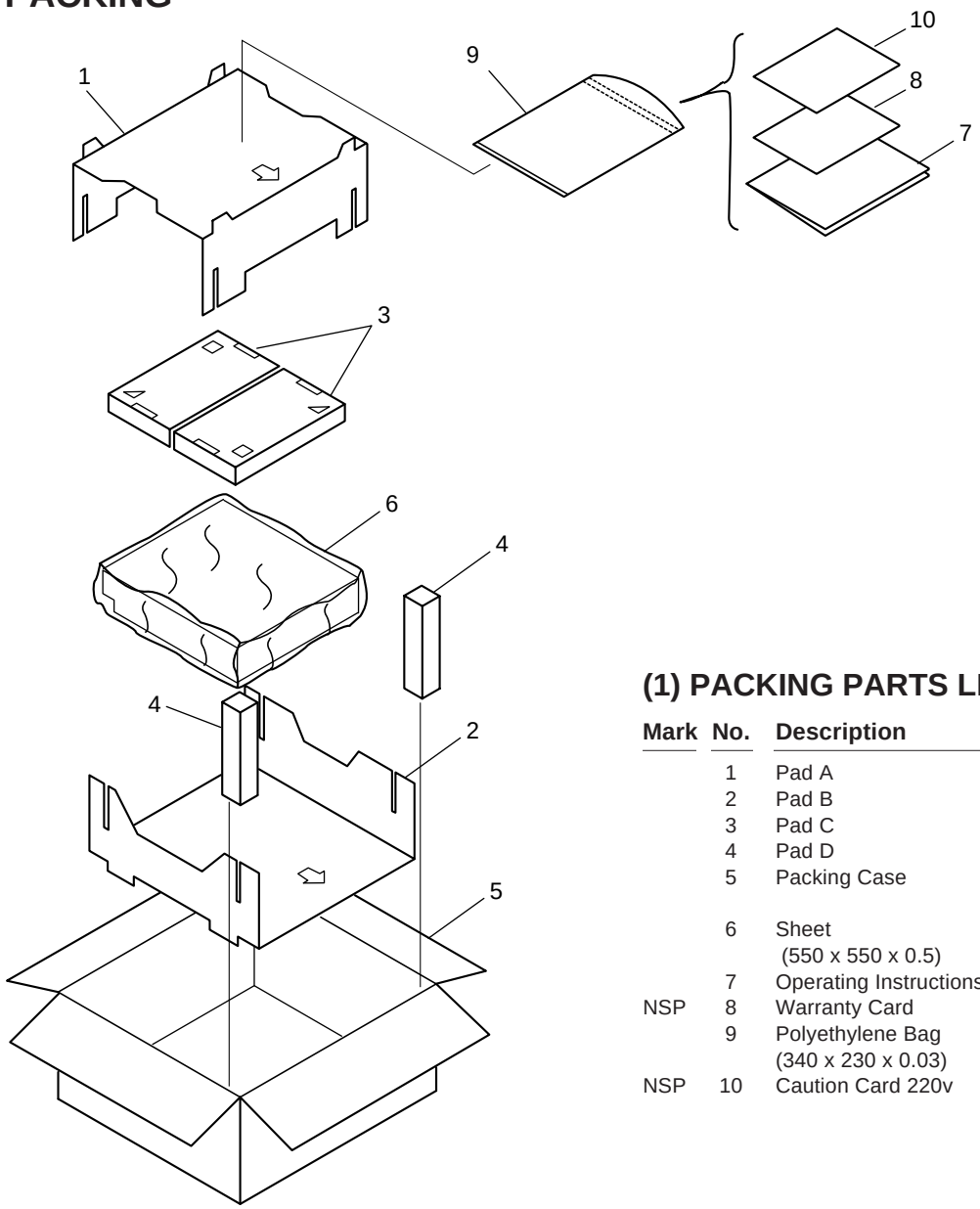
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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

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

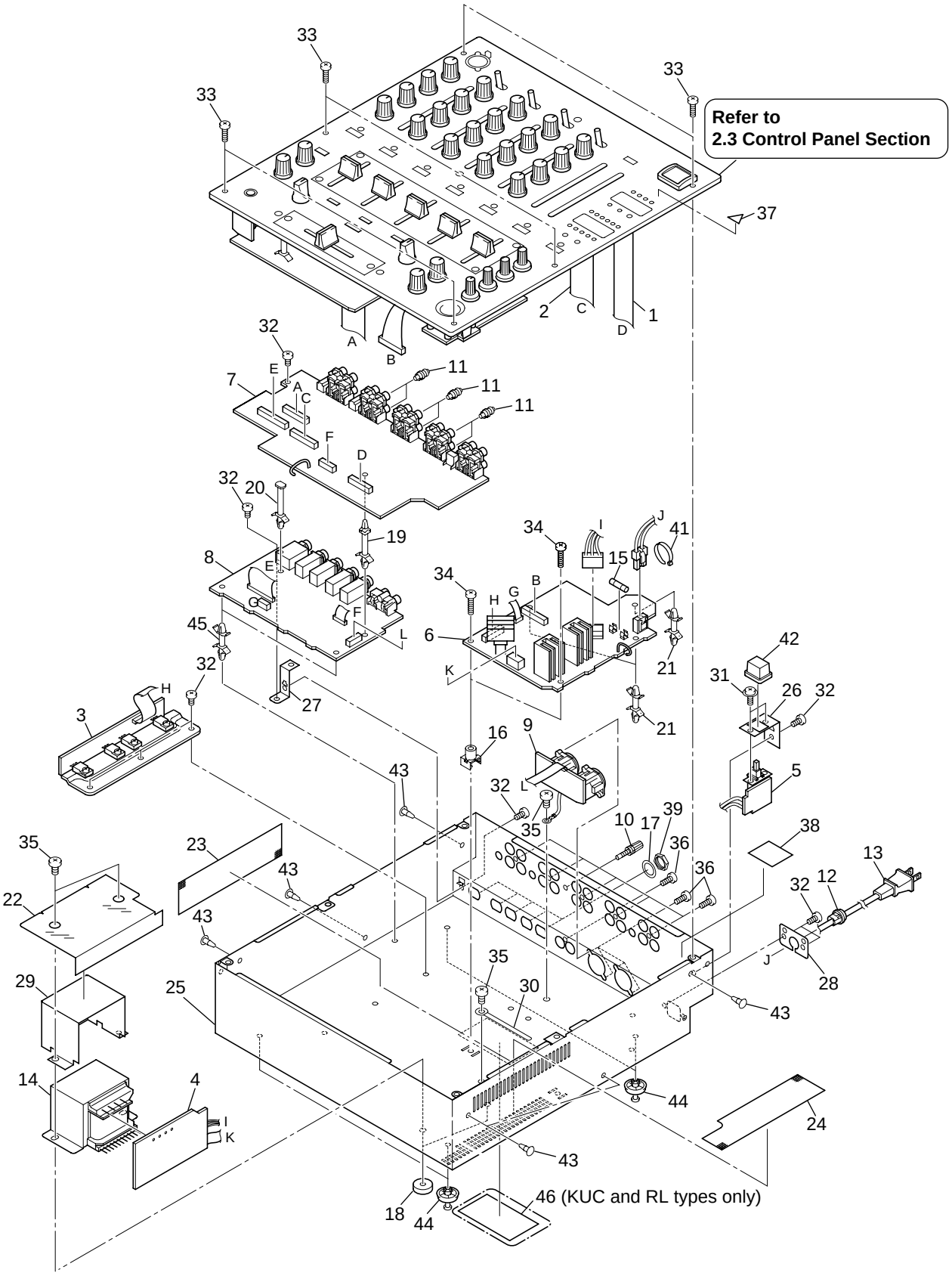
Mark	No.	Description	Part No.
	1	Pad A	DHA1456
	2	Pad B	DHA1457
	3	Pad C	DHA1458
	4	Pad D	DHA1469
	5	Packing Case	See Contrast table (2)
	6	Sheet (550 x 550 x 0.5)	RHX1006
	7	Operating Instructions	See Contrast table (2)
NSP	8	Warranty Card	See Contrast table (2)
	9	Polyethylene Bag (340 x 230 x 0.03)	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	
	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	
NSP	10	Caution Card 220V	Not used	ARR7003	Not used	

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

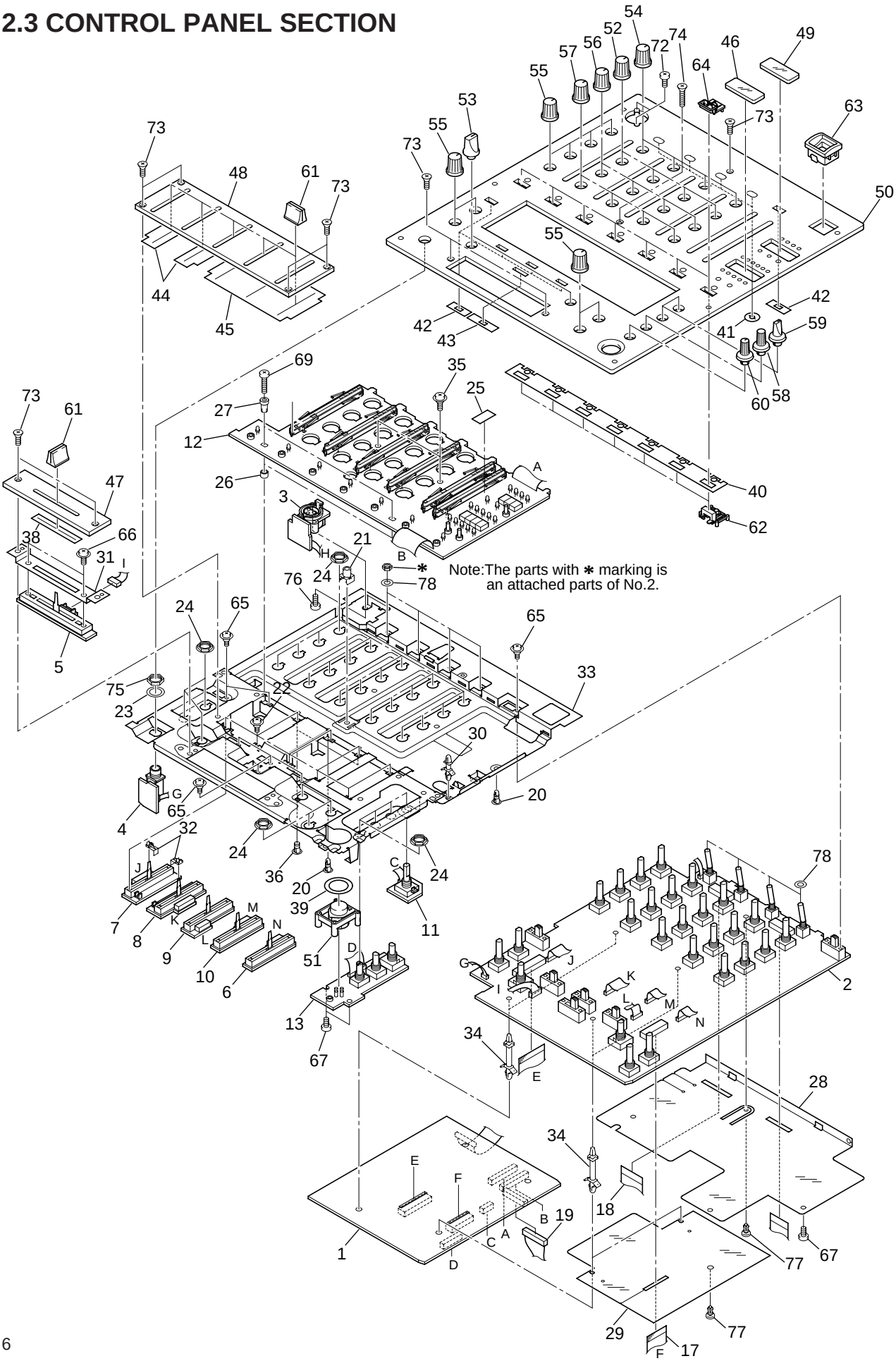
Mark	No.	Description	Part No.
	1	19P F.F.C/60V	DDD1155
	2	23P F.F.C/60V	DDD1154
NSP	3	REG. ASSY	DWR1334
NSP	4	TRANS ASSY	DWR1335
NSP	5	POWER SW ASSY	DWR1333
	6	POWER ASSY	See Contrast table (2)
	7	TERMINAL ASSY	DWZ1089
	8	PHONE ASSY	DWZ1090
NSP	9	BAL.OUT ASSY	DWZ1091
	10	Terminal Screw	AKE-031
	11	Short Pin Plug	AKM7008
⚠	12	Strain Relief	See Contrast table (2)
⚠	13	Power Cord With Plug	See Contrast table (2)
⚠	14	Power Transformer	See Contrast table (2)
⚠	15	Fuse (1A: FU2)	See Contrast table (2)
NSP	16	PCB Mould	AMR1525
	17	Washer	DBE1010
	18	Screw Guard	DEB1447
NSP	19	PCB Spacer	DEC1389
NSP	20	Card Spacer	DEC1649
	21	PC Support	DEC1773
	22	Sheet	DEC2375
	23	Net	DED1129
	24	Net	DED1152
NSP	25	Chassis	See Contrast table (2)
	26	SW Plate	DNF1653
	27	Earth Plate	DNF1520
	28	Power Cord Stay	DNF1640
	29	Trans Shield	DNH2279
	30	Cord Clamper	RNH1005
	31	Screw	AMZ30P040FMC
	32	Screw	BBZ30P060FZK
	33	Screw	BBZ30P100FZK
	34	Screw	BBZ30P180FMC
	35	Screw	BBZ40P060FMC
	36	Screw	BPZ30P080FZK
NSP	37	Caution Label	See Contrast table (2)
	38	SW Sheet	See Contrast table (2)
	39	Nut	NKX2FUC
	40	• • • • •	
	41	Binder	ZCA-SKB90BK
	42	Power Knob	DAC1847
NSP	43	Binder	AEC-036
	44	Foot Assy	REC-434
NSP	45	PC Support	VEC1508
	46	Label	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	
	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	
NSP	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.
	1	DSP ASSY	DWX1999
	2	VR ASSY	DWG1517
	3	MIC JACK ASSY	DWZ1087
	4	HP JACK ASSY	DWZ1088
	5	C.F ASSY	DWG1519
	6	FADER VR (MAIN) ASSY	DWG1520
	7	FADER VR (CH1) ASSY	DWG1521
	8	FADER VR (CH2) ASSY	DWG1522
	9	FADER VR (CH3) ASSY	DWG1523
	10	FADER VR (CH4) ASSY	DWG1524
NSP	11	DIGITAL SW ASSY	DWG1525
	12	7SEG. ASSY	See Contrast table (2)
NSP	13	EFFECT ASSY	DWG1518
	14	• • • • •	
	15	• • • • •	
	16	• • • • •	
	17	21P F.F.C/60V	DDD1156
	18	28P F.F.C/60V	DDD1157
	19	Connector Assy	DKP3508
	20	PCB Holder	AEC1534
NSP	21	PCB Mould	AMR1525
	22	Screw	DBA1141
	23	Washer	DBE1010
	24	Nut M9	DBN1004
	25	Spacer	DEB1450
	26	Collar	DEC1953
	27	Bush	DEC1957
	28	PCB Sheet A	DEC2367
	29	PCB Sheet B	DEC2368
	30	Spacer	DEC2369
	31	Slider Plate	DNF1518
	32	Arm	DNK3750
NSP	33	Panel Stay Assy	DXB1731
NSP	34	PCB Support	REC1248
	35	Screw	VBA1039
NSP	36	PC Support	VEC1749
	37	• • • • •	
	38	Fader Packing B	DED1100
	39	Effect SW Packing	DED1110
	40	Tact SW Packing	DED1119
	41	Lever SW Packing	DED1120
	42	Slide SW Packing B	DED1125
	43	SW Packing A	DED1145
	44	Fader Packing A	DED1146
	45	Fader Packing C	DED1147
	46	Display Panel B	DAH1796
	47	Slider Panel	See Contrast table (2)
	48	Sub Panel	See Contrast table (2)
	49	Display Panel A	DAH1947
	50	Control Panel	See Contrast table (2)
	51	Loop Knob	DNK2943
	52	Rotary VR Knob G	DAA1133
	53	Rotary SW Knob	DAA1134
	54	Rotary VR Knob DG	DAA1135
	55	Rotary VR Knob B	DAA1136
	56	Rotary VR Knob GY	DAA1139
	57	Rotary VR Knob GG	DAA1140
	58	Parameter Knob A	DAA1146
	59	Rotary Select Knob	DAA1147
	60	Parameler Knob B	DAA1148
	61	Fader Knob	DAC1846
	62	Tact Knob 2	DAC1950
	63	Power Knob Guide	DNK3768
	64	Tact Knob Guide 2	DNK3775
	65	Screw	AMZ26P040FMC
	66	Screw	AMZ30P040FMC
	67	Screw	BBZ30P060FZK
	68	• • • • •	
	69	Screw	BBZ30P140FMC
	70	• • • • •	
	71	• • • • •	
	72	Screw	BPZ30P080FZK
	73	Screw	CBZ30P080FZK
	74	Screw	CBZ30P180FZK
	75	Nut	NKX2FUC
	76	Screw	PPZ30P050FMC
	77	Rivet	RBM-003
	78	Washer	WB50FMC

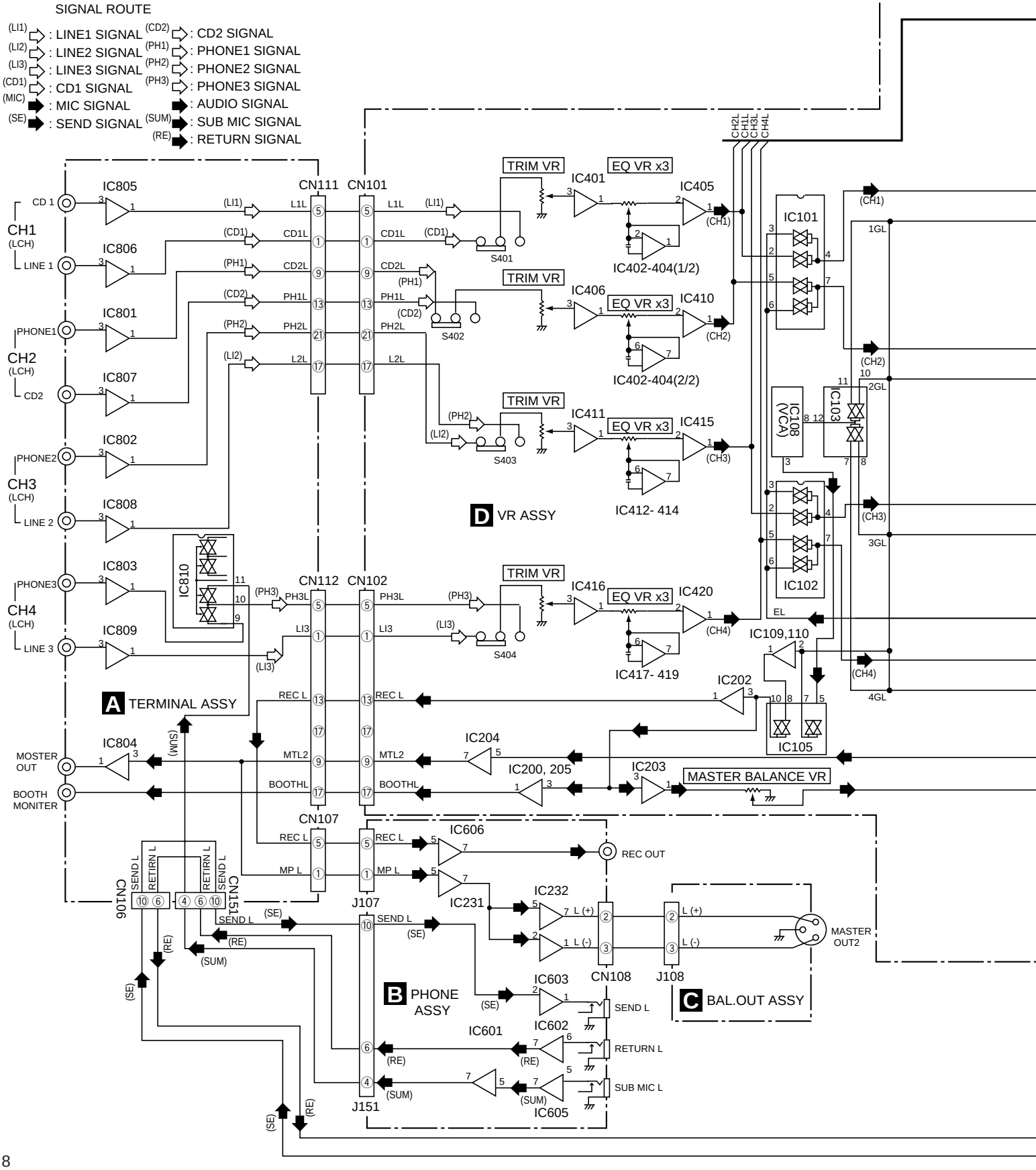
(2) CONTRAST TABLE

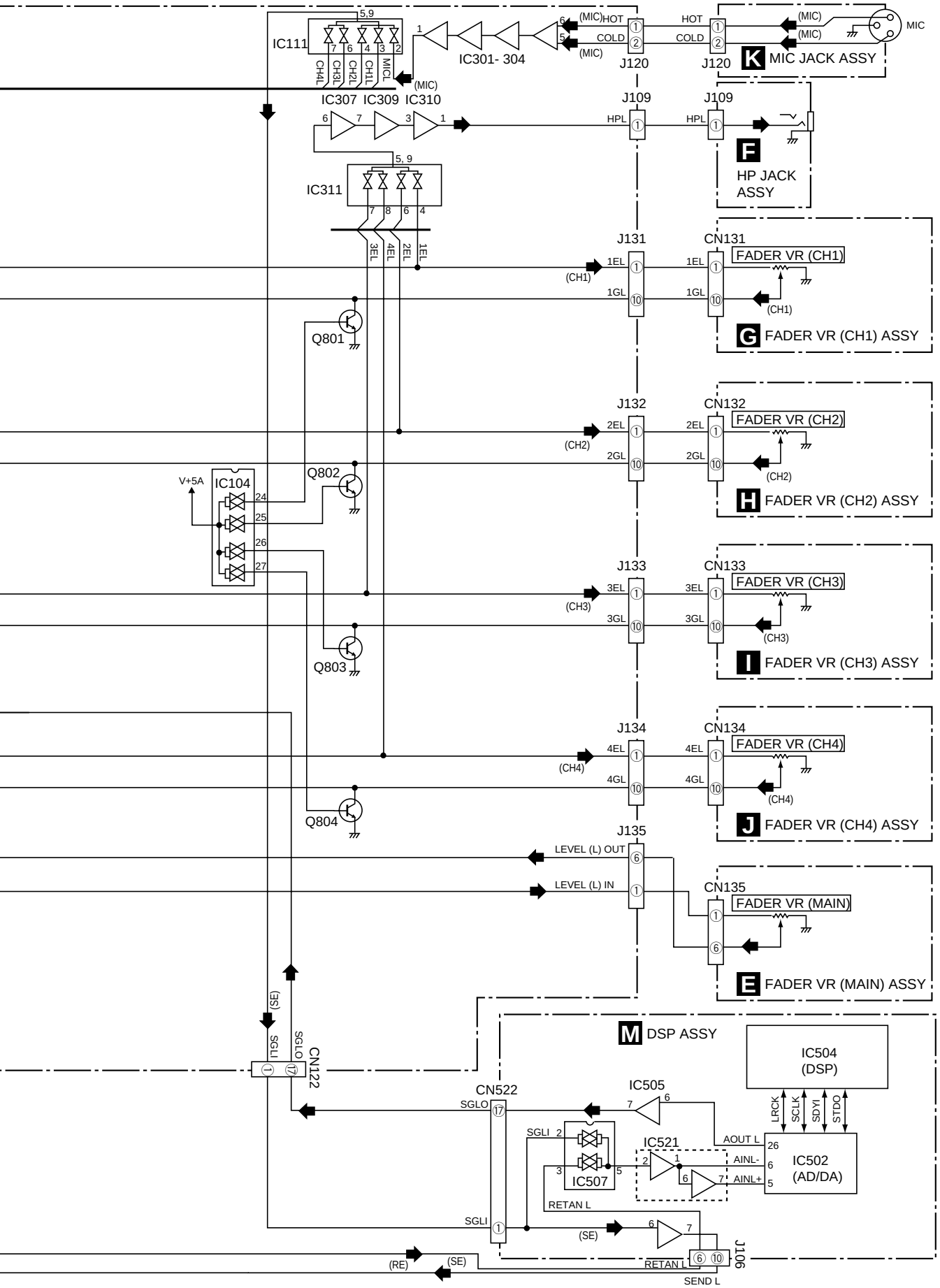
DJM-600/KUC, RL and WY types are constructed the same except for the following:

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	

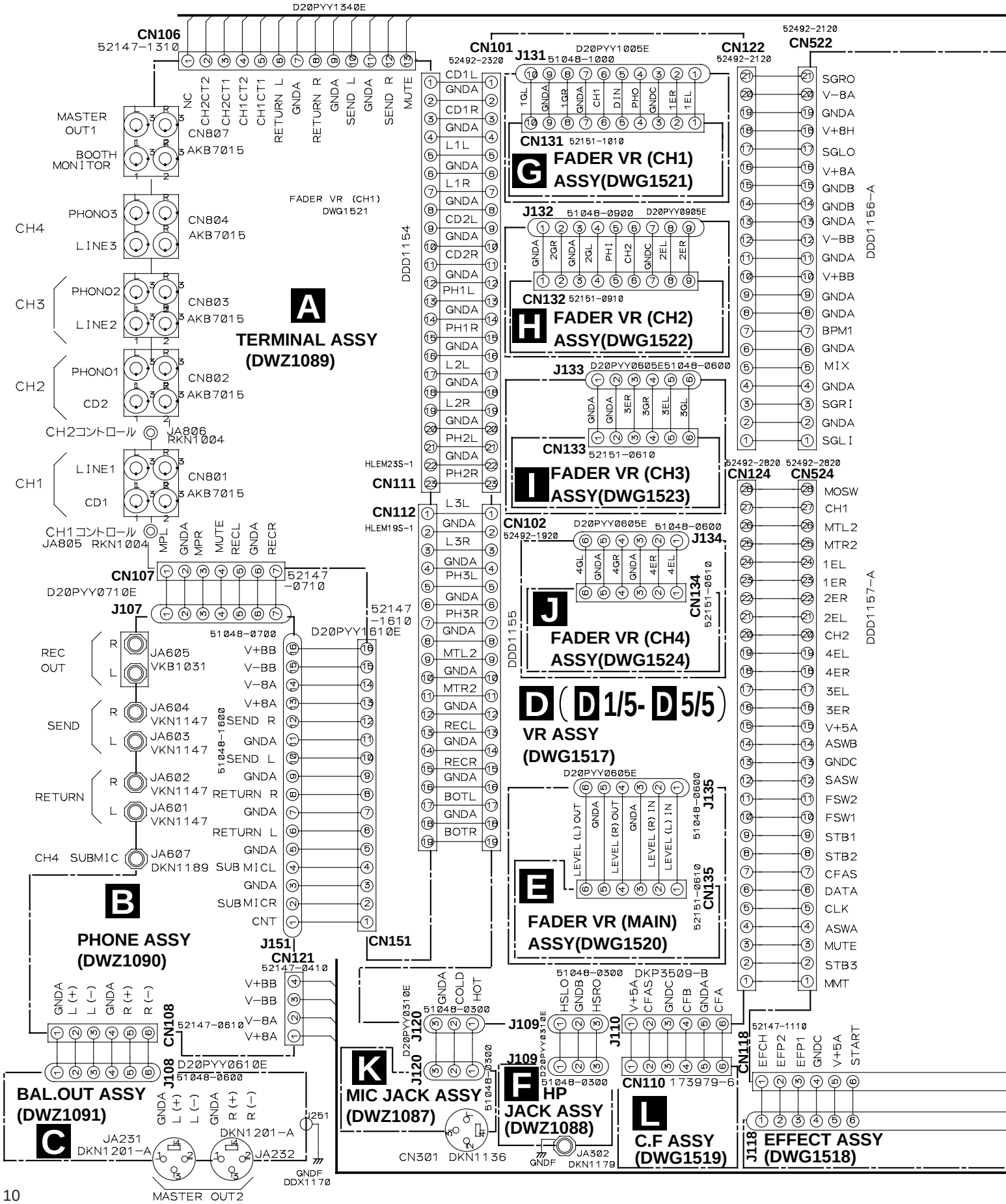
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

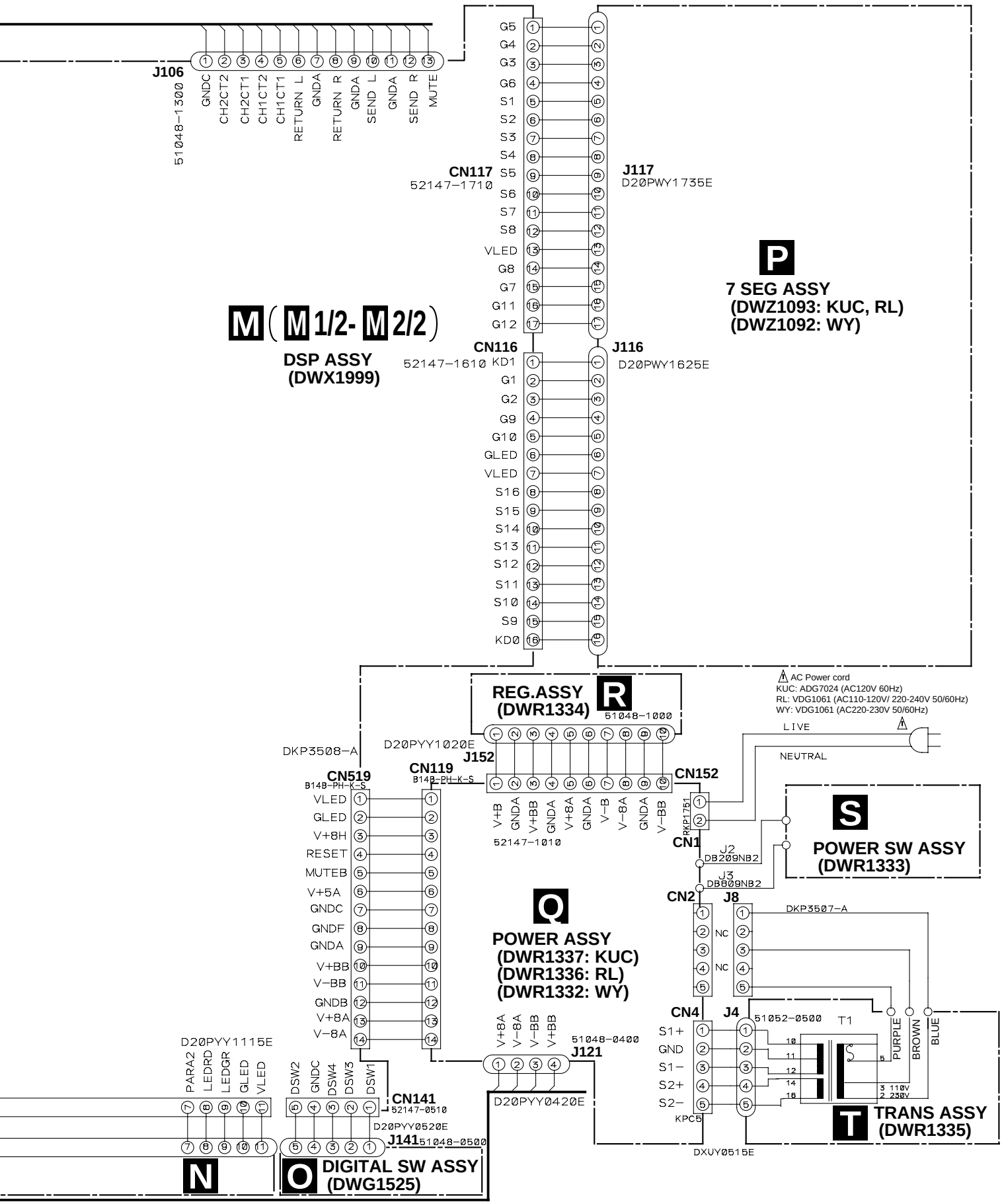



IC111
IC301- 304
IC307 IC309 IC310
IC311
IC104
V+5A
Q801
Q802
Q803
Q804
J120
J109
J131
J132
J133
J134
J135
CN131
CN132
CN133
CN134
CN135
FADER VR (CH1)
FADER VR (CH2)
FADER VR (CH3)
FADER VR (CH4)
FADER VR (MAIN)
K MIC JACK ASSY
F HP JACK ASSY
G FADER VR (CH1) ASSY
H FADER VR (CH2) ASSY
I FADER VR (CH3) ASSY
J FADER VR (CH4) ASSY
E FADER VR (MAIN) ASSY
M DSP ASSY
IC504 (DSP)
IC505
IC521
IC507
IC502 (AD/DA)
CN522
CN122
J106
LEVEL (L) OUT
LEVEL (L) IN
RETAN L
SEND L
MIC
HOT
COLD
HPL
(MIC)
(CH1)
(CH2)
(CH3)
(CH4)
(SE)
(RE)
SGLI
SGLO
LRCK
SCLK
SDYI
STDO
AOUT L
AINL-
AINL+

3.2 OVERALL CONNECTION DIAGRAM

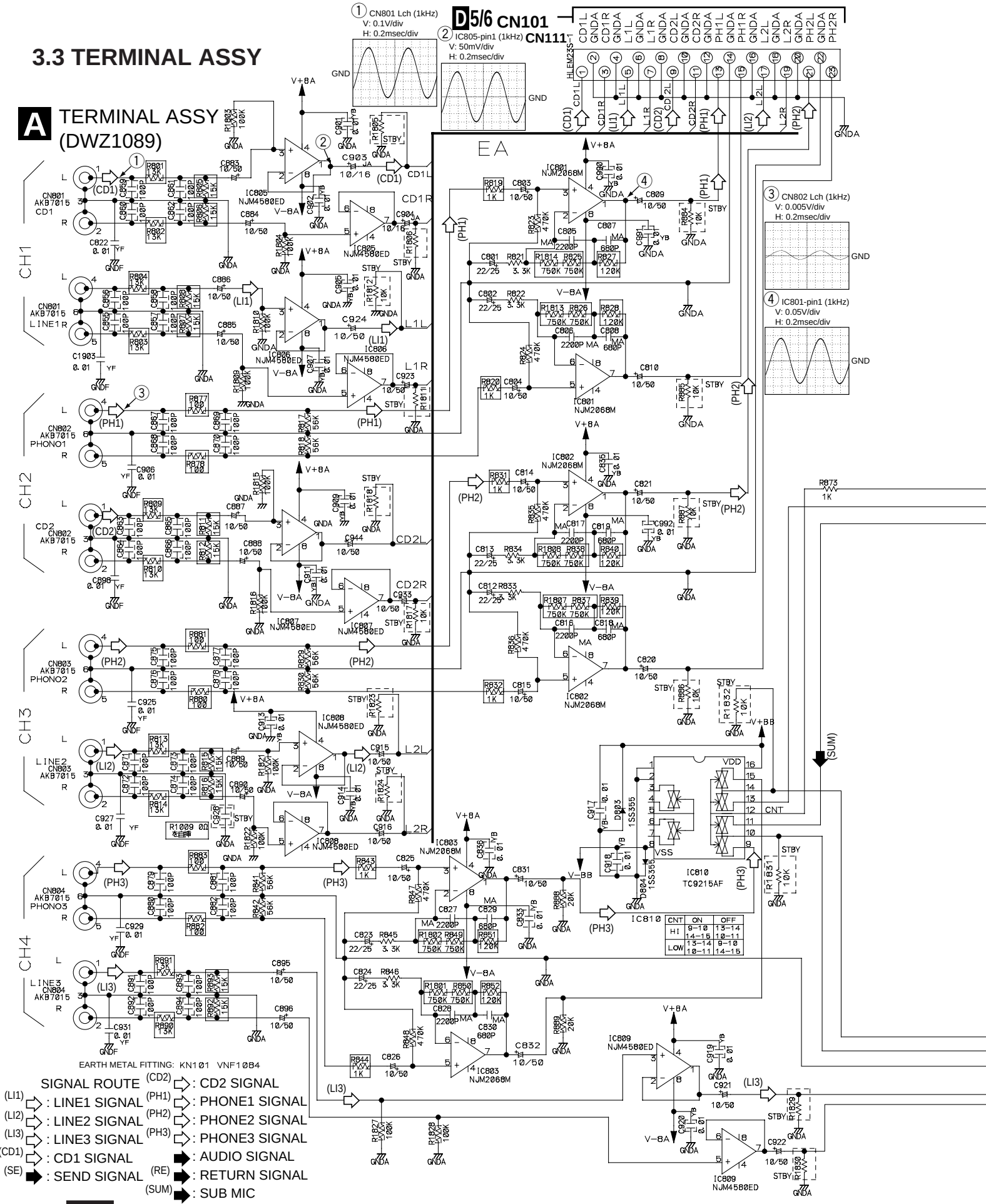


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.3 TERMINAL ASSY

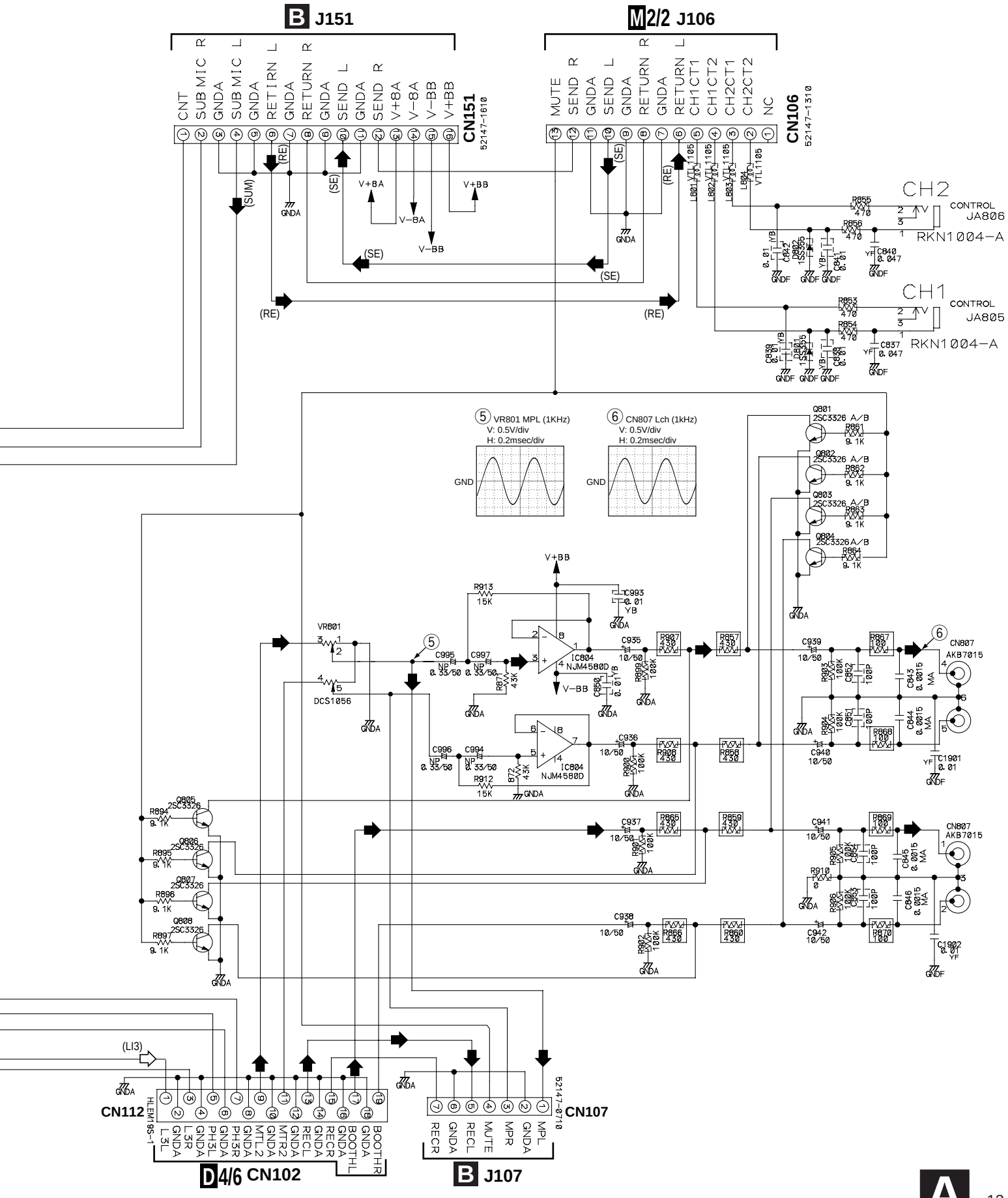
A TERMINAL ASSY (DWZ1089)



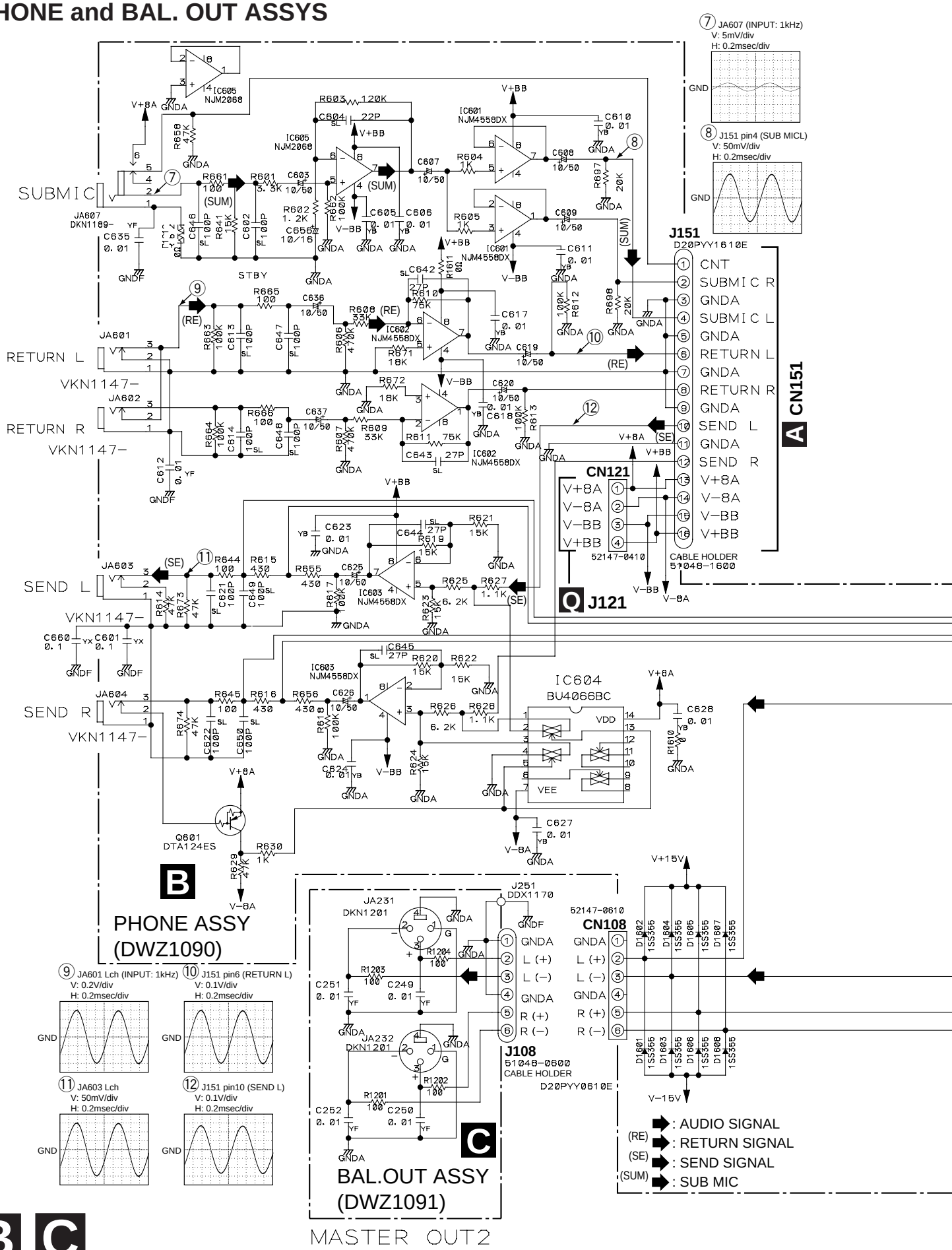
EARTH METAL FITTING: KN101 VNF1084

SIGNAL ROUTE

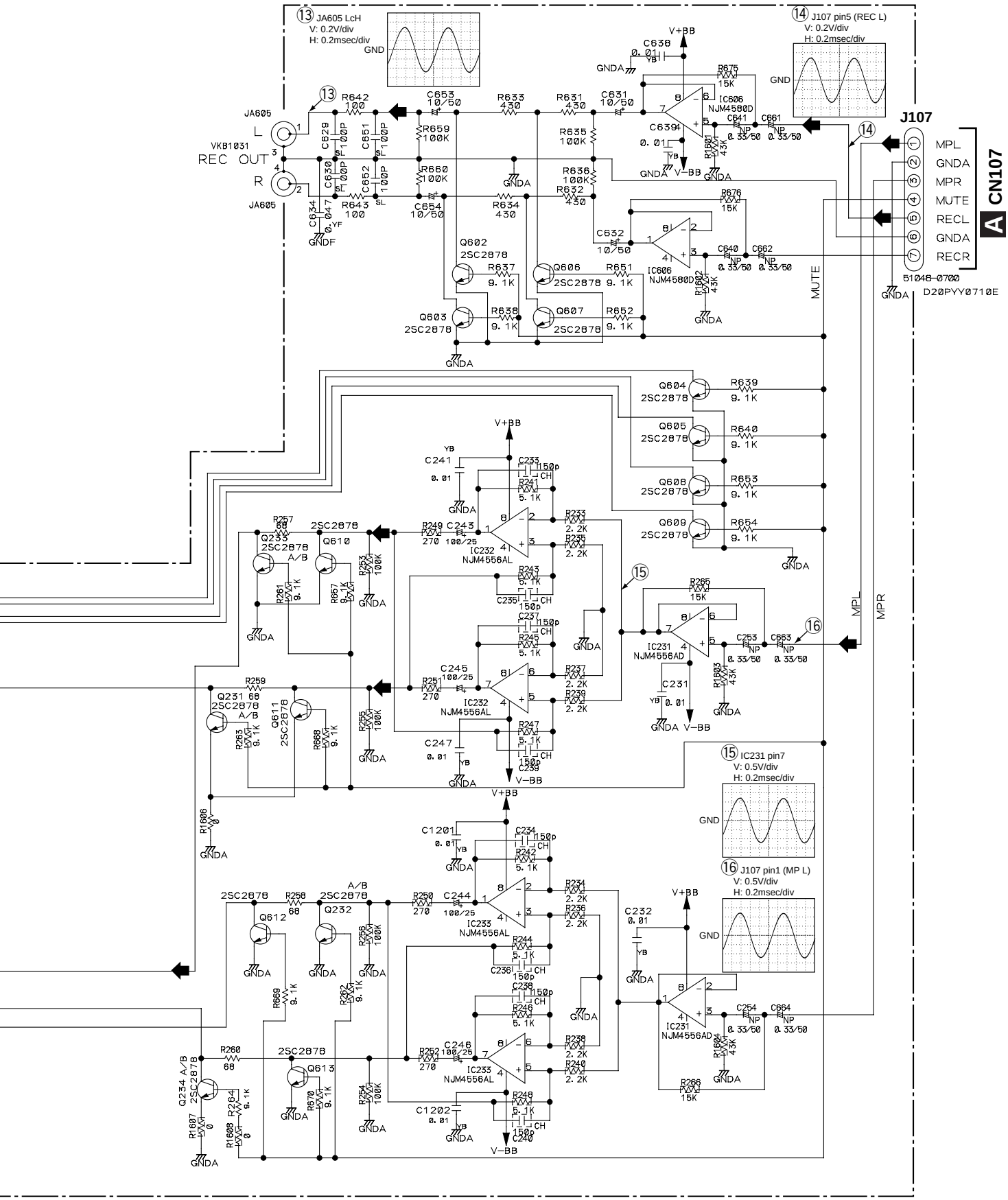
(CD2) ⇨ : CD2 SIGNAL
(LI1) ⇨ : LINE1 SIGNAL
(LI2) ⇨ : LINE2 SIGNAL
(LI3) ⇨ : LINE3 SIGNAL
(CD1) ⇨ : CD1 SIGNAL
(SE) ➡ : SEND SIGNAL
(PH1) ⇨ : PHONE1 SIGNAL
(PH2) ⇨ : PHONE2 SIGNAL
(PH3) ⇨ : PHONE3 SIGNAL
➡ : AUDIO SIGNAL
(RE) ➡ : RETURN SIGNAL
(SUM) ➡ : SUB MIC


B J151
M2/2 J106
CN151
52147-1610
CN106
52147-1310
CH2
CONTROL
JA806
RKN1004-A
CH1
CONTROL
JA805
RKN1004-A
5 VR801 MPL (1KHz)
V: 0.5V/div
H: 0.2msec/div
6 CN807 Lch (1kHz)
V: 0.5V/div
H: 0.2msec/div
IC804
NJM4580D
DCS1056
CN807
AKB7015
(LI3)
CN112
HLEM19S-1
D 4/6 CN102
CN107
52147-0710
B J107

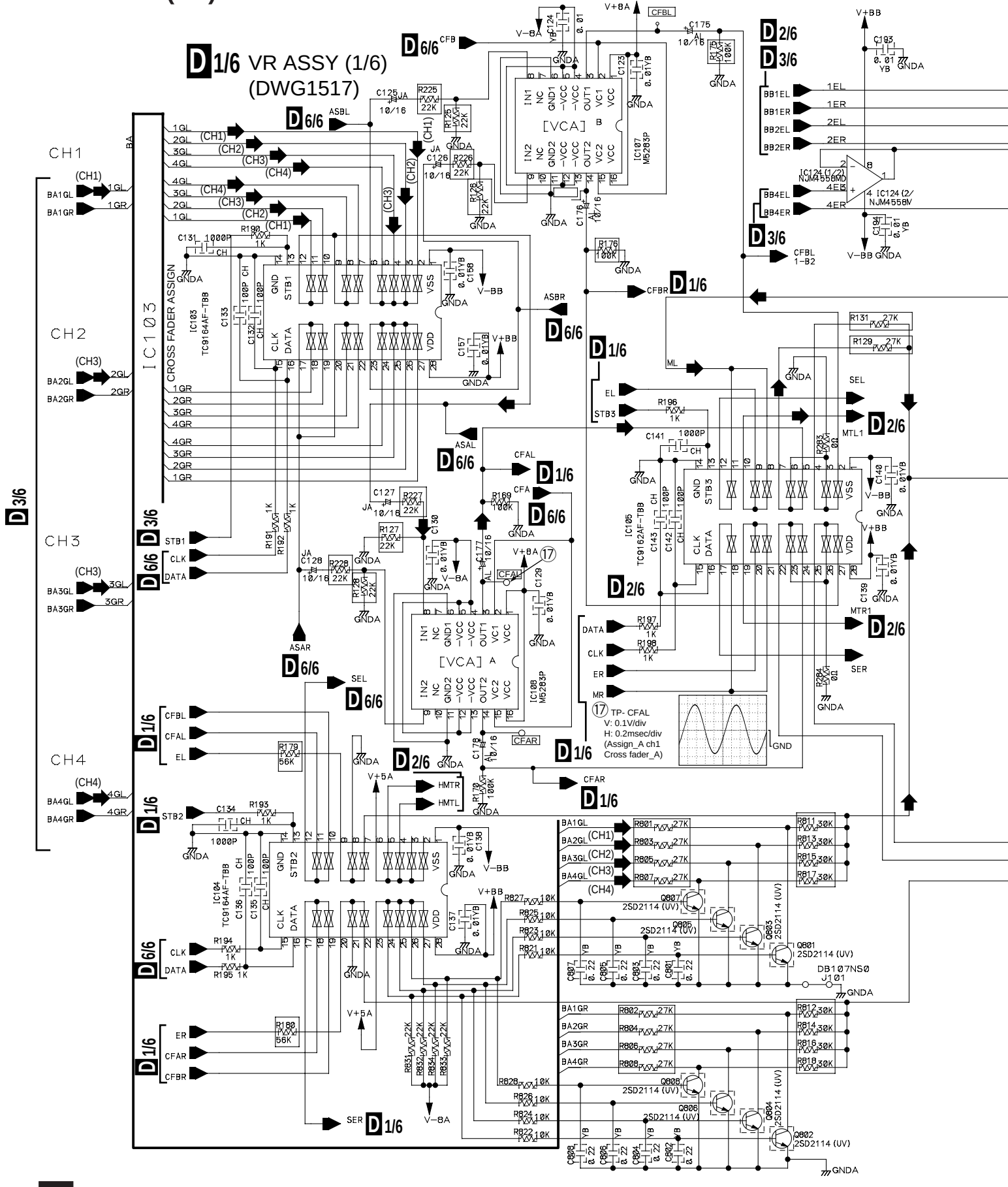
3.4 PHONE and BAL. OUT ASSYS

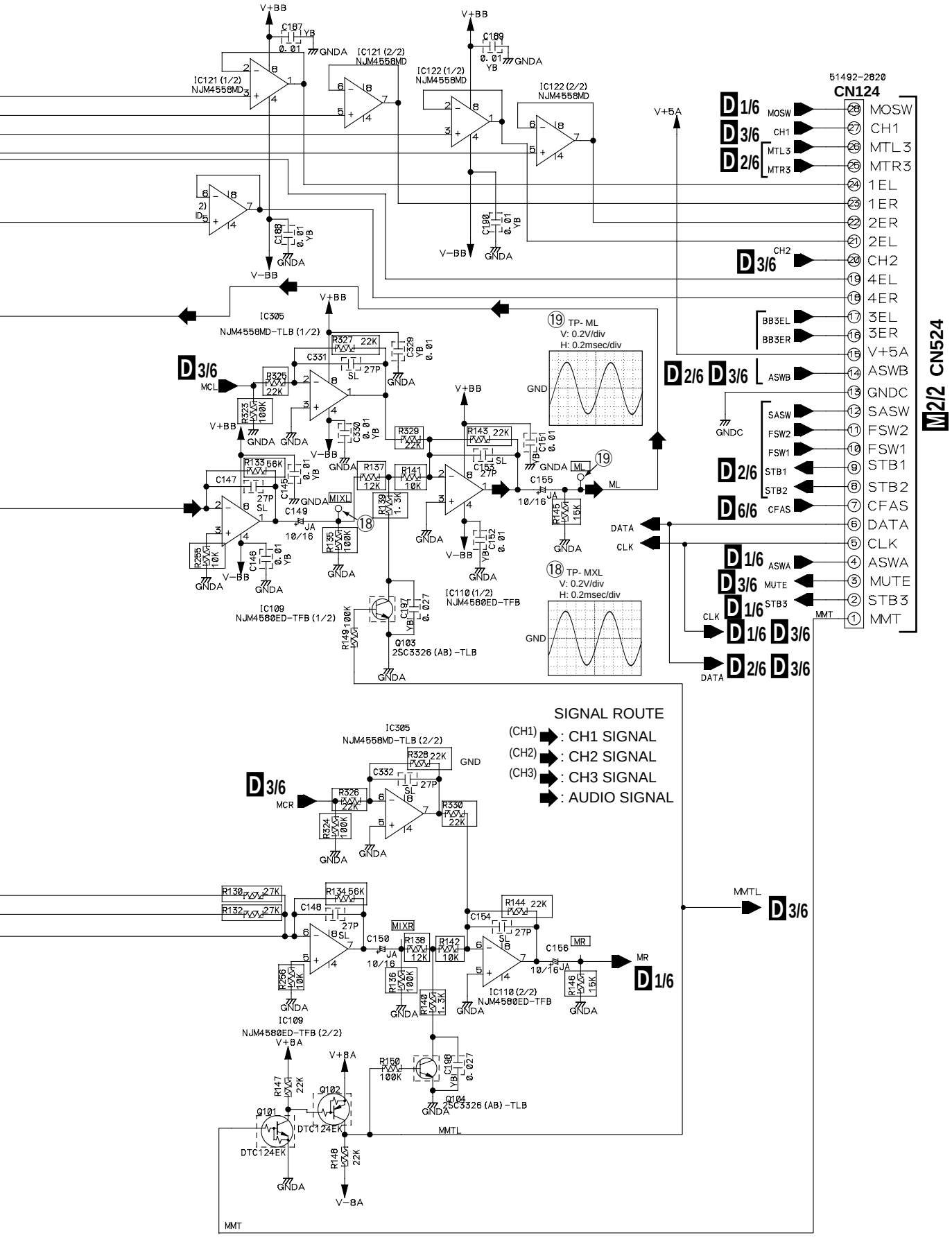


MASTER OUT2

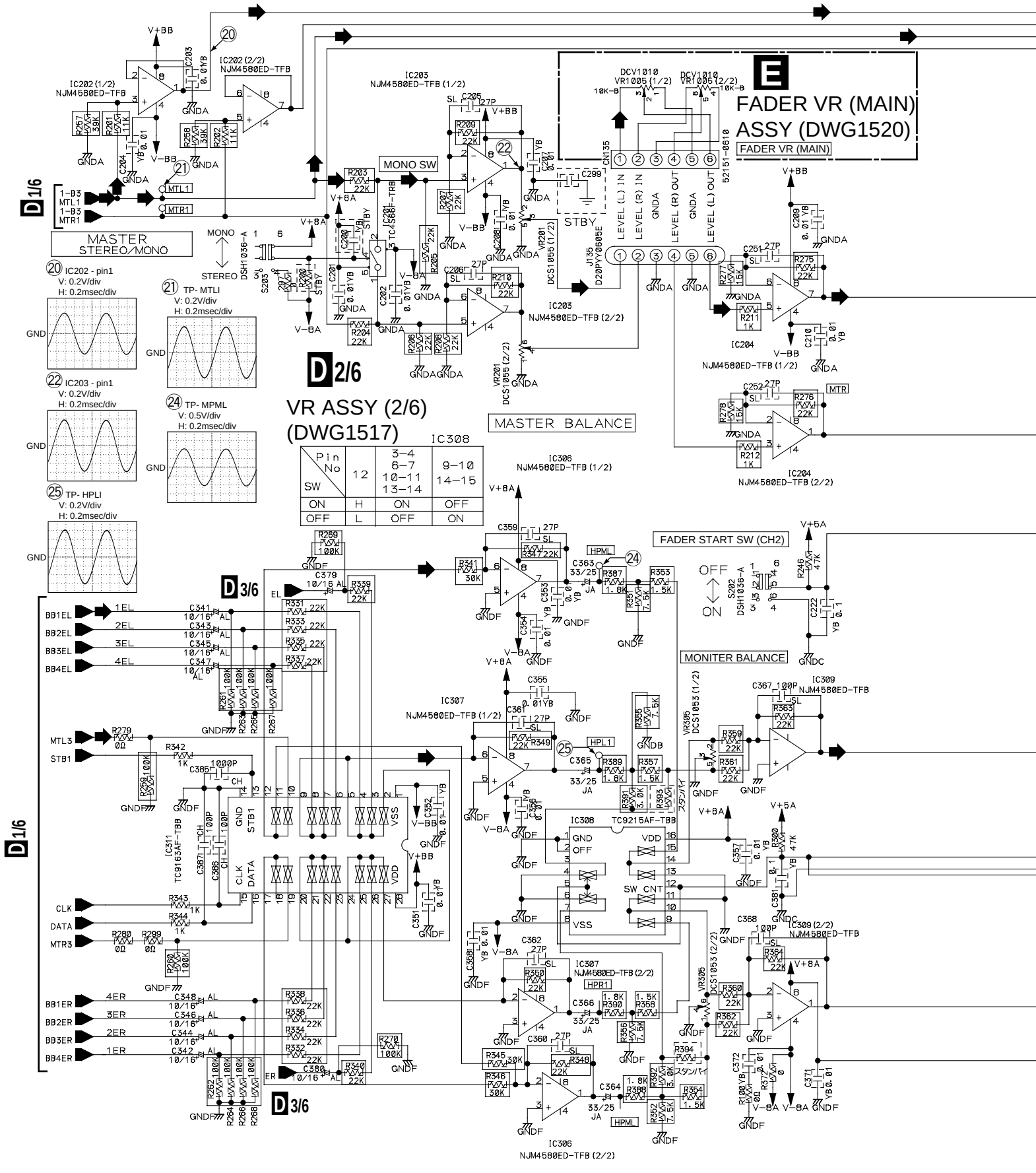

13 JA605 LcH
V: 0.2V/div
H: 0.2msec/div
GND
14 J107 pin5 (REC L)
V: 0.2V/div
H: 0.2msec/div
GND
J107
CN107
MPL
GNDA
MPR
MUTE
RECL
GNDA
RECR
51048-0700
D20PYY0710E
JA605
VKB1031
REC OUT
L
R
IC606 NJM4580D
IC232 NJM4556AL
IC231 NJM4556AD
IC233 NJM4556AL
MUTE
MPL
MPR
V+BB
V-BB
GNDA
GNDF
15 IC231 pin7
V: 0.5V/div
H: 0.2msec/div
GND
16 J107 pin1 (MP L)
V: 0.5V/div
H: 0.2msec/div
GND

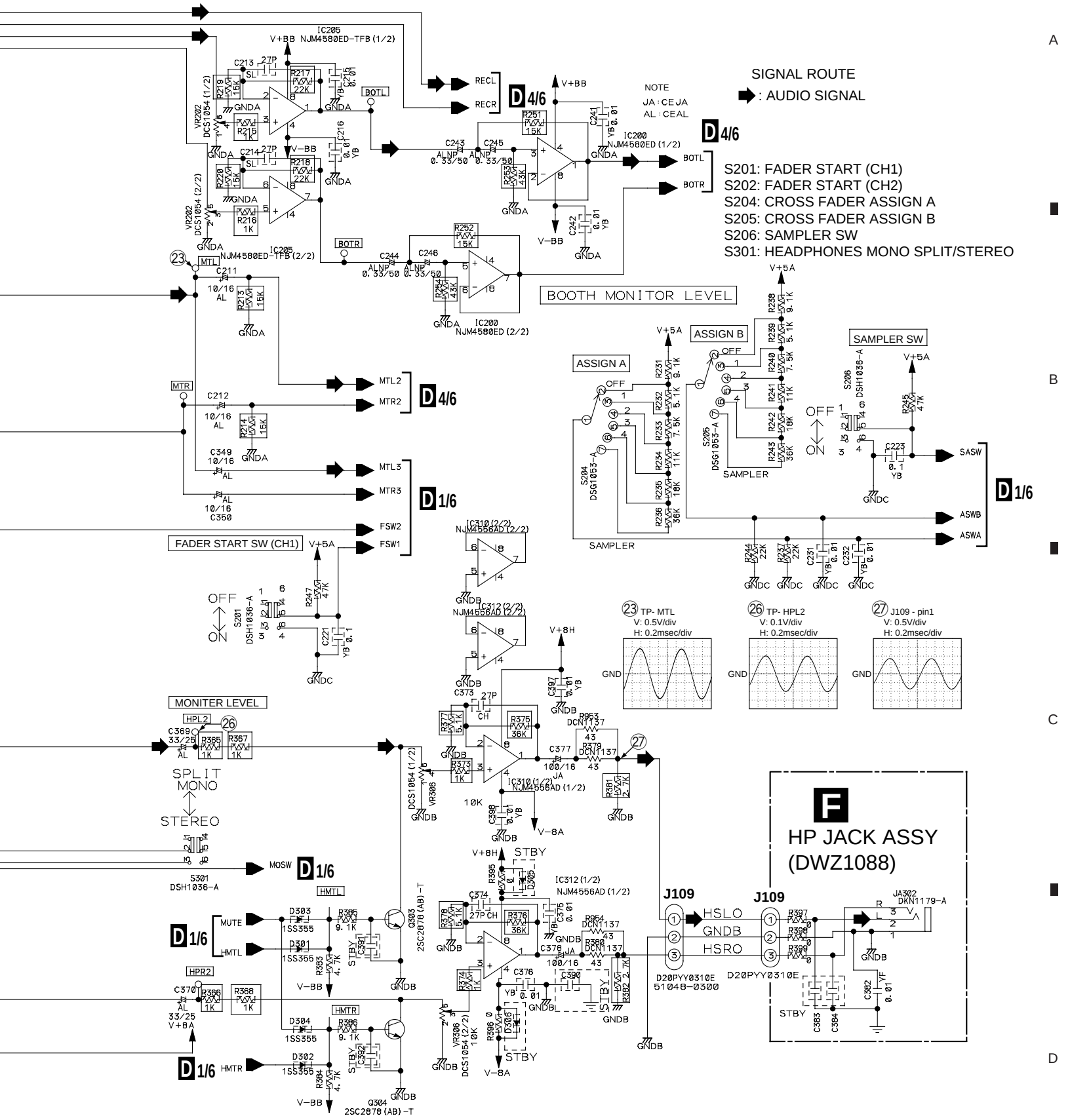
3.5 VR ASSY (1/6)


D 1/6 VR ASSY (1/6)
(DWG1517)
IC103
CROSS FADER ASSIGN
TC9164AF-TBB
IC104
TC9164AF-TBB
IC105
TC9162AF-TBB
IC106
M5283P
IC107
M5283P
[VCA] A
[VCA] B
CH1
CH2
CH3
CH4
(CH1)
(CH2)
(CH3)
(CH4)
V+8A
V-8A
V+5A
V-BB
GNDA
CFBL
CFAL
CFAR
CFBR
ASBL
ASAL
ASAR
ASBR
SEL
SER
HMTR
HMTL
TP- CFAL
V: 0.1V/div
H: 0.2msec/div
(Assign_A ch1
Cross fader_A)
2SD2114 (UV)
DB107NS0
D 1/6
D 2/6
D 3/6
D 6/6

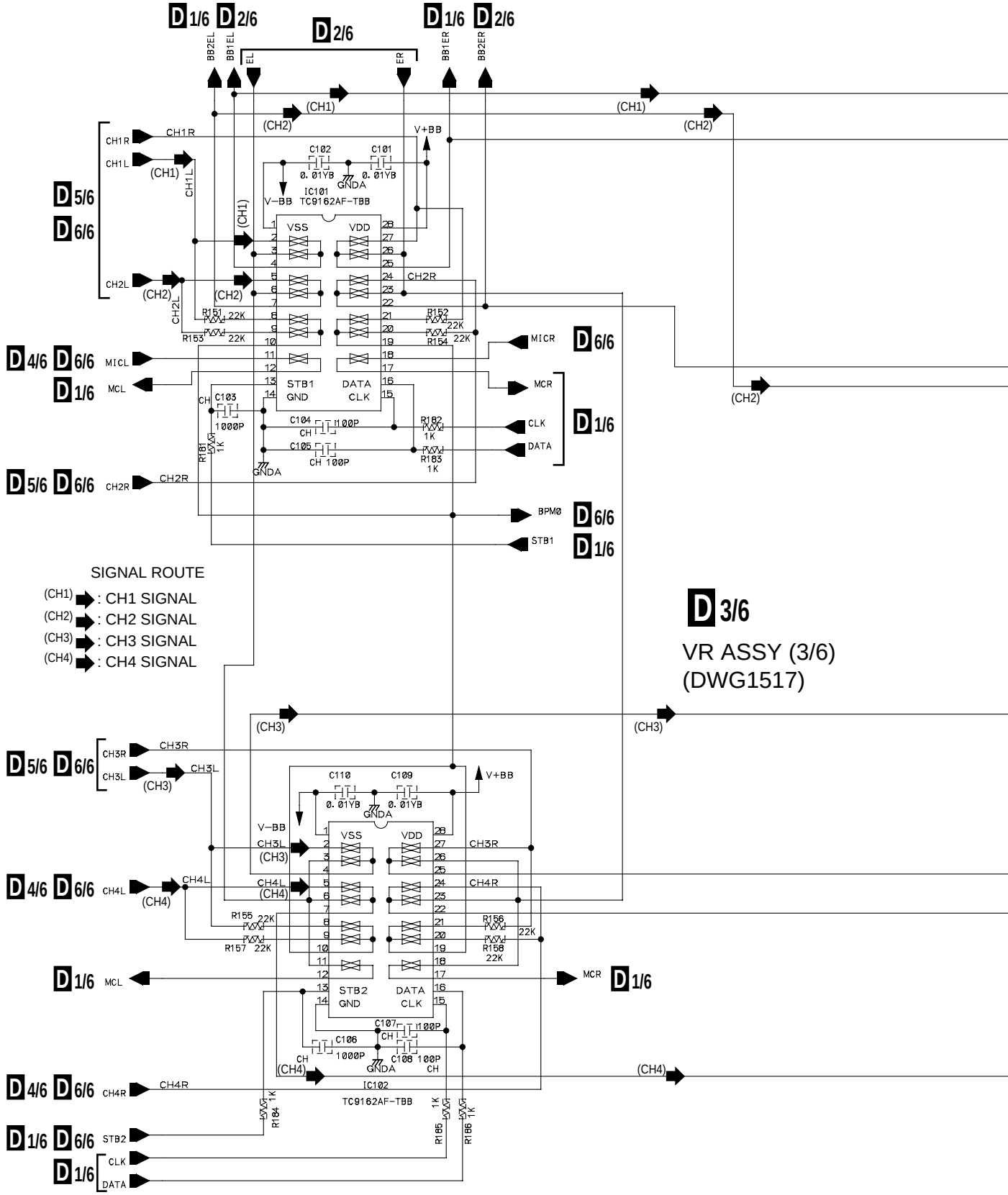

SIGNAL ROUTE
(CH1) : CH1 SIGNAL
(CH2) : CH2 SIGNAL
(CH3) : CH3 SIGNAL
: AUDIO SIGNAL
CN124
CN524
MOSW
CH1
MTL3
MTR3
1EL
1ER
2ER
2EL
CH2
4EL
4ER
3EL
3ER
V+5A
ASWB
GNDC
SASW
FSW2
FSW1
STB1
STB2
CFAS
DATA
CLK
ASWA
MUTE
STB3
MMT
IC305 NJM4558MD-TLB (1/2)
IC305 NJM4558MD-TLB (2/2)
IC109 NJM4580ED-TFB (1/2)
IC109 NJM4580ED-TFB (2/2)
IC110 (1/2) NJM4580ED-TFB
IC110 (2/2) NJM4580ED-TFB
IC121 (1/2) NJM4558MD
IC121 (2/2) NJM4558MD
IC122 (1/2) NJM4558MD
IC122 (2/2) NJM4558MD
Q101 DTC124EK
Q102 DTC124EK
Q103 2SC3326 (AB) -TLB
Q104 2SC3326 (AB) -TLB
TP- ML V: 0.2V/div H: 0.2msec/div
TP- MXL V: 0.2V/div H: 0.2msec/div
MCL
MCR
MIXL
MIXR
ML
MR
MMTL
V+BB
V-BB
V+8A
V-8A
GNDA
GND

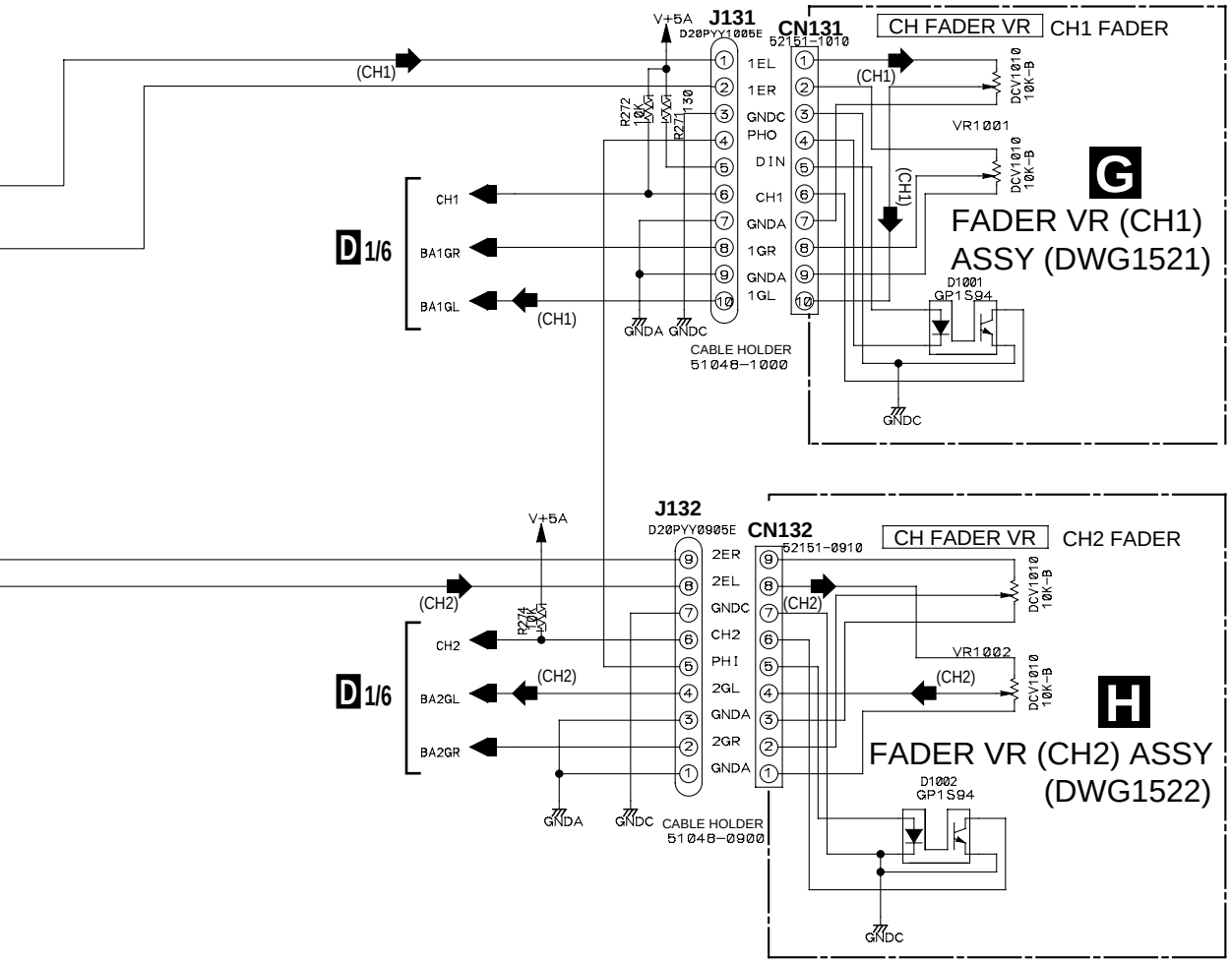
3.6 VR (2/6), FADER VR (MAIN) and HP JACK ASSYS

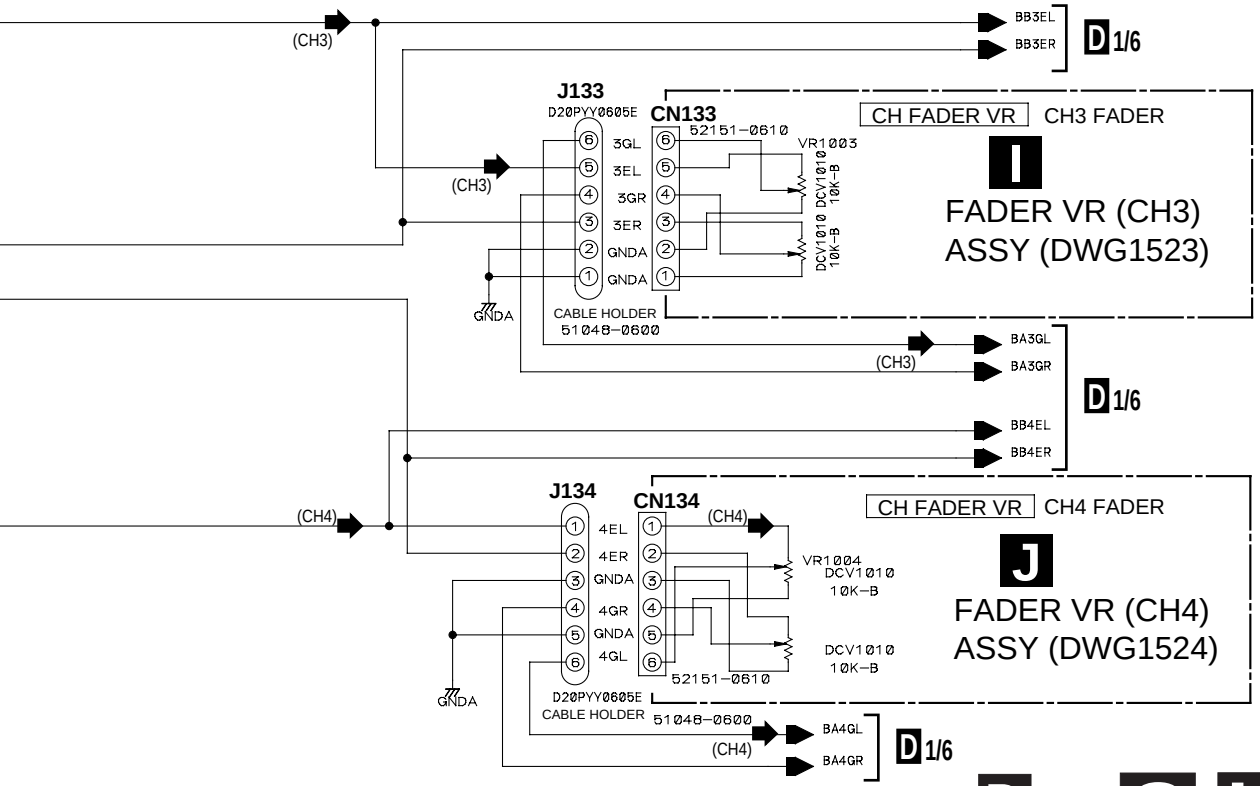



SIGNAL ROUTE
: AUDIO SIGNAL
NOTE
JA : CEJA
AL : CEAL
S201: FADER START (CH1)
S202: FADER START (CH2)
S204: CROSS FADER ASSIGN A
S205: CROSS FADER ASSIGN B
S206: SAMPLER SW
S301: HEADPHONES MONO SPLIT/STEREO
BOOTH MONITOR LEVEL
ASSIGN A
ASSIGN B
SAMPLER SW
SAMPLER
FADER START SW (CH1)
MONITER LEVEL
SPLIT
MONO
STEREO
HP JACK ASSY
(DWZ1088)
IC205 NJM4580ED-TFB (1/2)
IC205 NJM4580ED-TFB (2/2)
IC200 NJM4580ED (1/2)
IC200 NJM4580ED (2/2)
IC310 (1/2) NJM4556AD (1/2)
IC310 (2/2) NJM4556AD (2/2)
IC312 (1/2) NJM4556AD (1/2)
IC312 (2/2) NJM4556AD (2/2)
RECL
RECR
BOTL
BOTR
MTL
MTR
MTL2
MTR2
MTL3
MTR3
FSW2
FSW1
SASW
ASWB
ASWA
MOSW
HMTL
HMTR
HPR2
MUTE
HPL2
J109
HSLO
GNDB
HSRO
STBY
V+5A
V+8H
V-BB
V-8A
GNDA
GNDB
GNDC
23 TP- MTL
V: 0.5V/div
H: 0.2msec/div
26 TP- HPL2
V: 0.1V/div
H: 0.2msec/div
27 J109 - pin1
V: 0.5V/div
H: 0.2msec/div
D 4/6
D 1/6
D 2/6
F

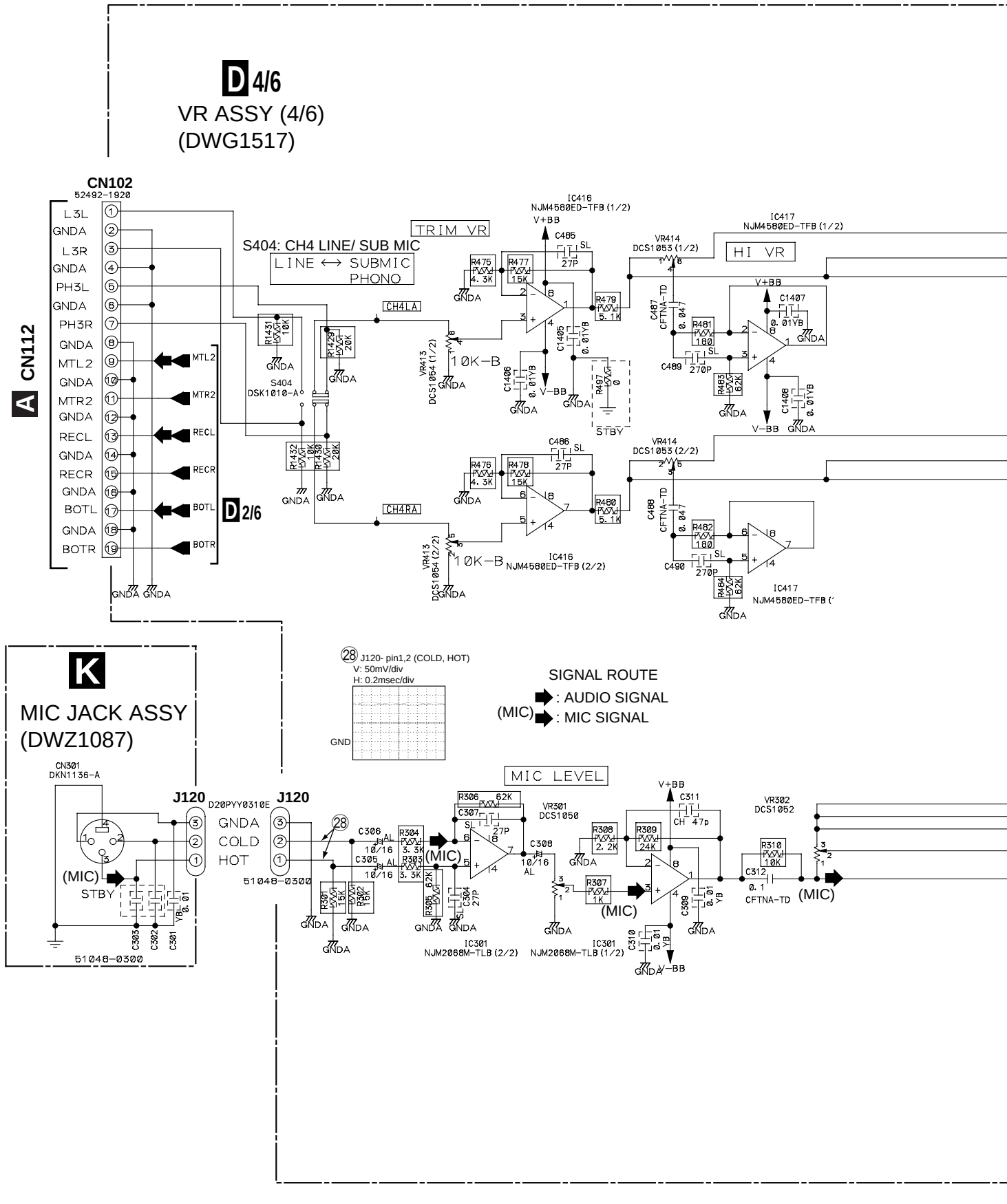
3.7 VR (3/6), FADER VR (CH1), FADER VR (CH2), FADER VR (CH3) and FADER VR (CH4) ASSYS

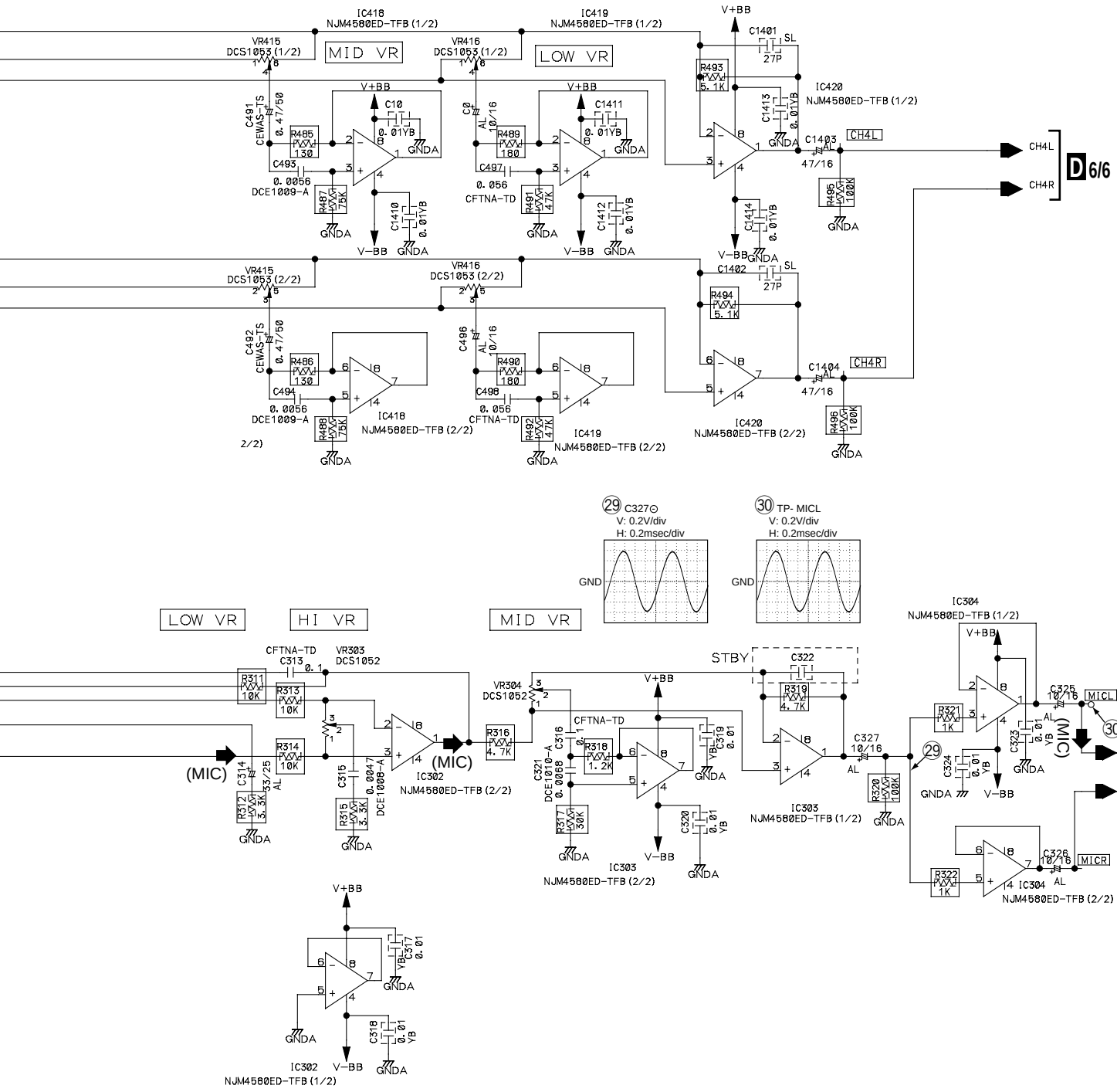



J131
D20PYY1005E
CN131
52151-1010
CH FADER VR
CH1 FADER
V+5A
(CH1)
1EL
1ER
GNDC
PHO
DIN
CH1
GNDA
1GR
GNDA
1GL
R272 10K
R271 130
VR1001
DCV1010 10K-B
D1001 GP1S94
CABLE HOLDER 51048-1000
D 1/6
CH1
BA1GR
BA1GL
G
FADER VR (CH1) ASSY (DWG1521)
J132
D20PYY0905E
CN132
52151-0910
CH FADER VR
CH2 FADER
V+5A
(CH2)
2ER
2EL
GNDC
CH2
PHI
2GL
GNDA
2GR
GNDA
R274 10K
VR1002
D1002 GP1S94
CABLE HOLDER 51048-0900
D 1/6
CH2
BA2GL
BA2GR
H
FADER VR (CH2) ASSY (DWG1522)

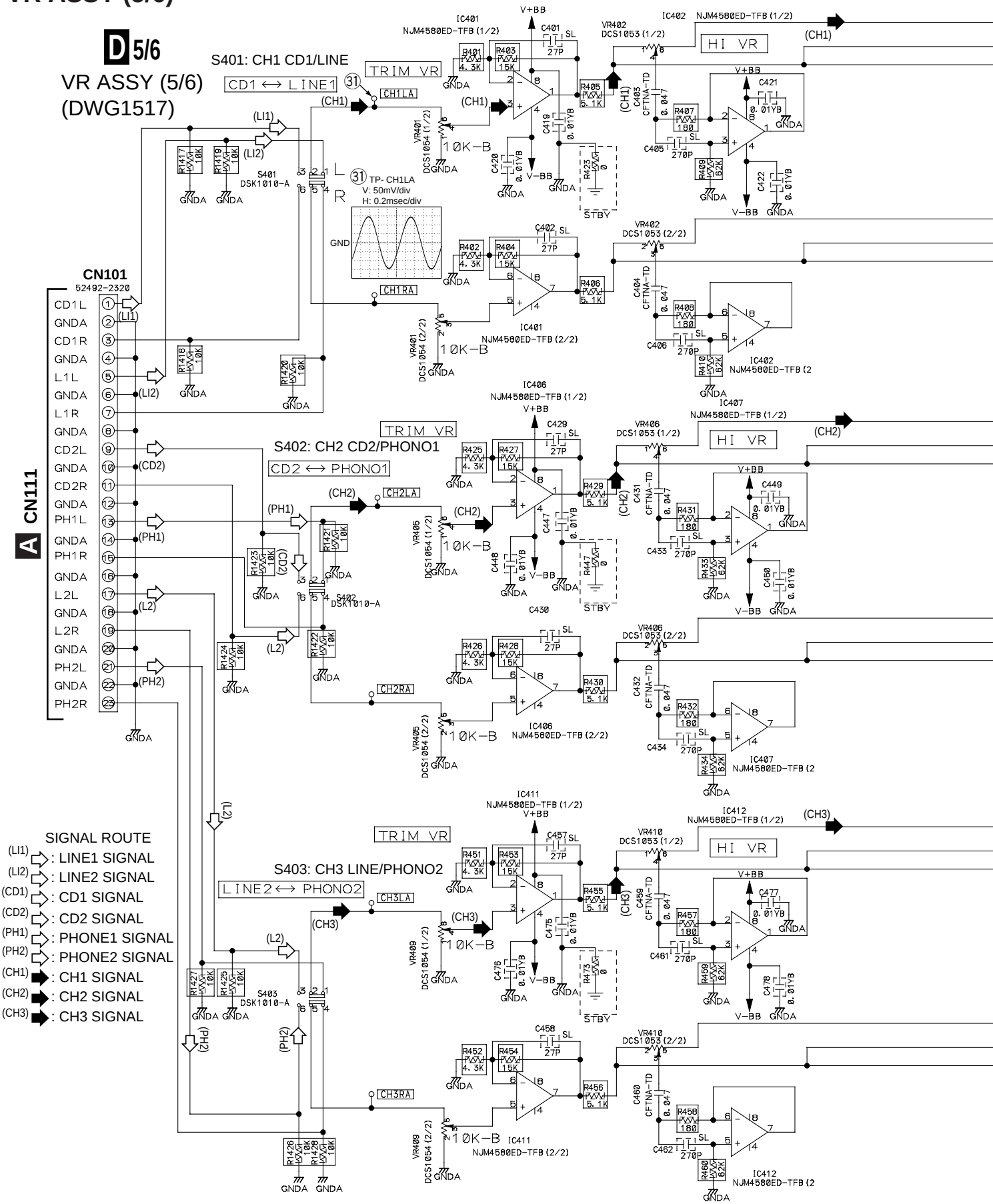

(CH3)
BB3EL
BB3ER
D 1/6
J133
D20PYY0605E
CN133
52151-0610
CH FADER VR
CH3 FADER
3GL
3EL
3GR
3ER
GNDA
GNDA
VR1003
DCV1010 10K-B
CABLE HOLDER 51048-0600
I
FADER VR (CH3) ASSY (DWG1523)
BA3GL
BA3GR
BB4EL
BB4ER
J134
CN134
(CH4)
CH FADER VR
CH4 FADER
4EL
4ER
GNDA
4GR
GNDA
4GL
VR1004 DCV1010 10K-B
DCV1010 10K-B
52151-0610
D20PYY0605E
CABLE HOLDER 51048-0600
J
FADER VR (CH4) ASSY (DWG1524)
BA4GL
BA4GR

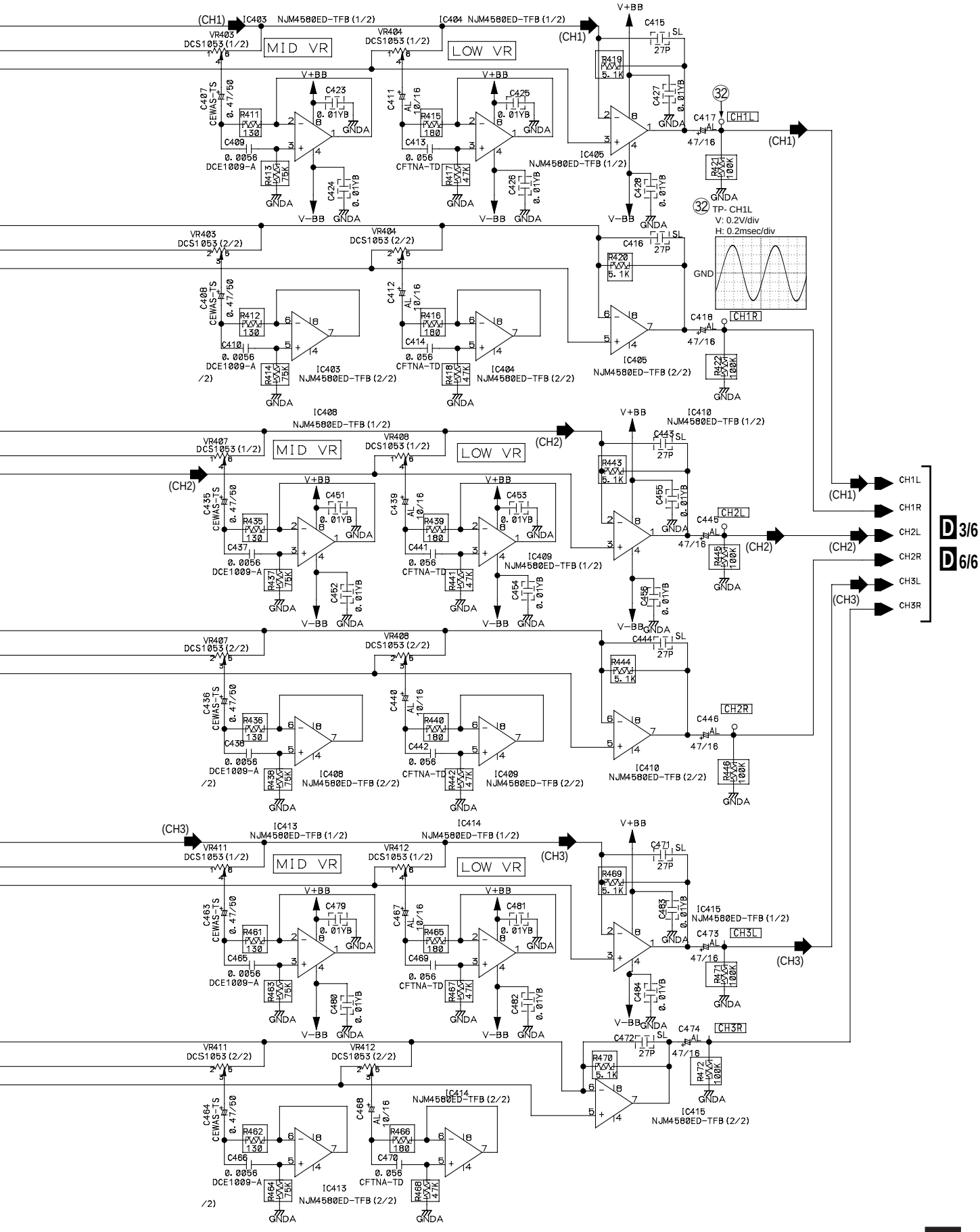
3.8 VR (4/6) and MIC JACK ASSYS



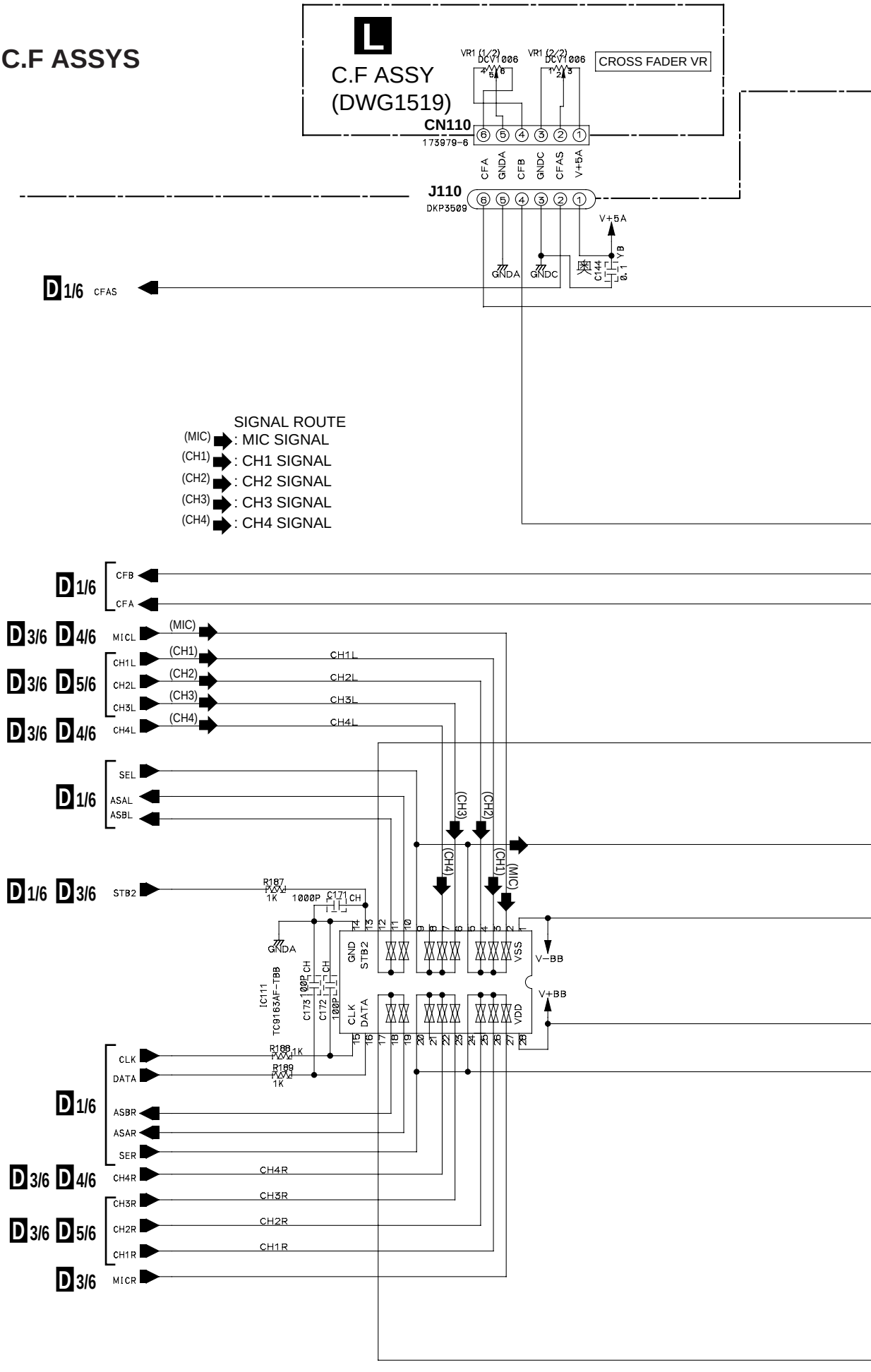

MID VR
LOW VR
HI VR
IC418 NJM4580ED-TFB (1/2)
IC419 NJM4580ED-TFB (1/2)
IC420 NJM4580ED-TFB (1/2)
IC418 NJM4580ED-TFB (2/2)
IC419 NJM4580ED-TFB (2/2)
IC420 NJM4580ED-TFB (2/2)
IC302 NJM4580ED-TFB (2/2)
IC302 NJM4580ED-TFB (1/2)
IC303 NJM4580ED-TFB (1/2)
IC303 NJM4580ED-TFB (2/2)
IC304 NJM4580ED-TFB (1/2)
IC304 NJM4580ED-TFB (2/2)
V+BB
V-BB
GNDA
STBY
(MIC)
MICL
MICR
CH4L
CH4R
D 6/6
29 C327
V: 0.2V/div
H: 0.2msec/div
30 TP- MICL
V: 0.2V/div
H: 0.2msec/div
GND

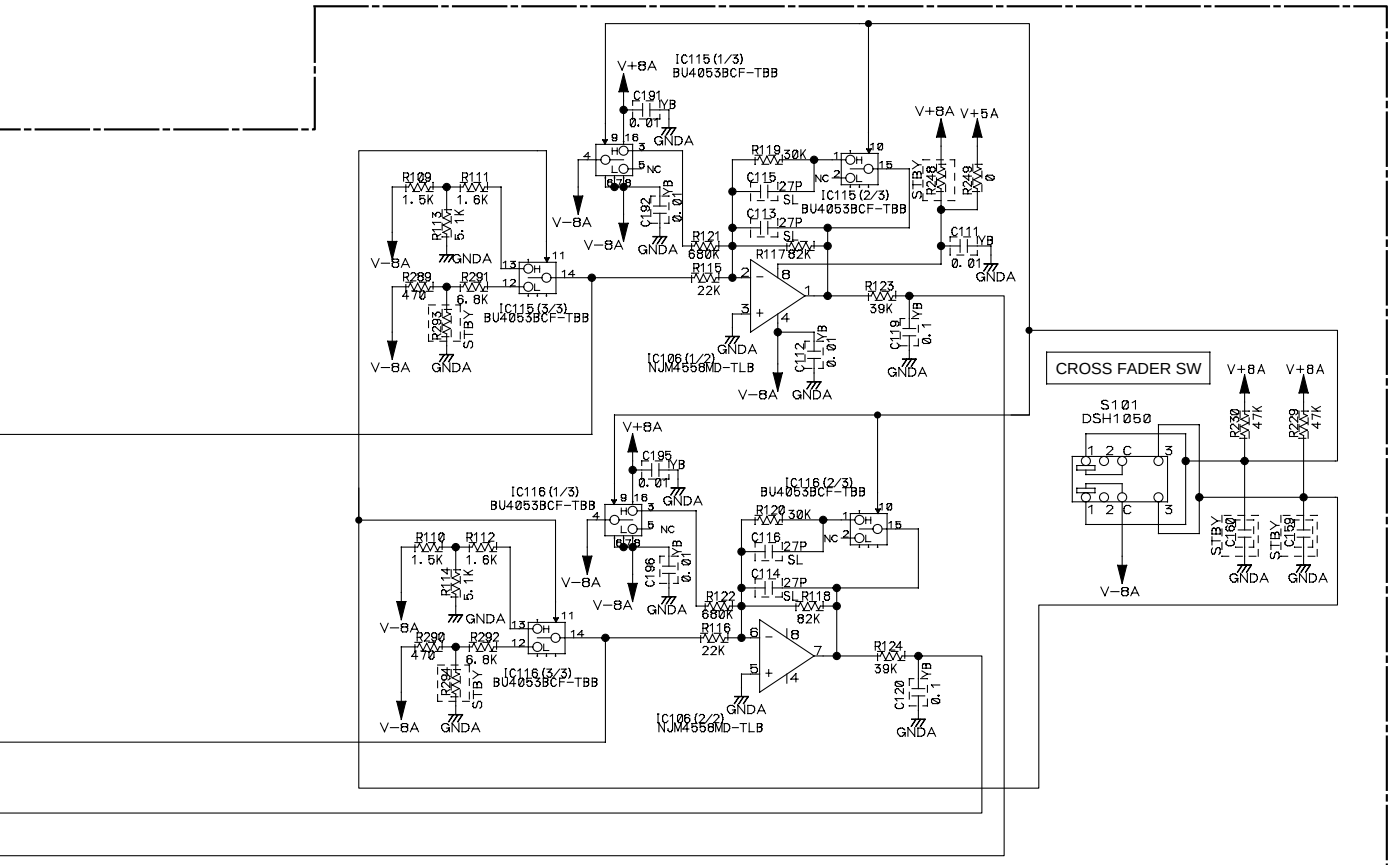
3.9 VR ASSY (5/6)


D 5/6
VR ASSY (5/6)
(DWG1517)
S401: CH1 CD1/LINE
CD1 ↔ LINE1
TRIM VR
HI VR
S402: CH2 CD2/PHONO1
CD2 ↔ PHONO1
S403: CH3 LINE/PHONO2
LINE2 ↔ PHONO2
CN101
52492-2320
CN111
CD1L
GNDA
CD1R
L1L
L1R
CD2L
CD2R
PH1L
PH1R
L2L
L2R
PH2L
PH2R
S401 DSK1010-A
S402 DSK1010-A
S403 DSK1010-A
TP- CH1LA
V: 50mV/div
H: 0.2msec/div
SIGNAL ROUTE
(LI1) : LINE1 SIGNAL
(LI2) : LINE2 SIGNAL
(CD1) : CD1 SIGNAL
(CD2) : CD2 SIGNAL
(PH1) : PHONE1 SIGNAL
(PH2) : PHONE2 SIGNAL
(CH1) : CH1 SIGNAL
(CH2) : CH2 SIGNAL
(CH3) : CH3 SIGNAL
IC401 NJM4580ED-TFB (1/2)
IC401 NJM4580ED-TFB (2/2)
IC402 NJM4580ED-TFB (1/2)
IC402 NJM4580ED-TFB (2
IC406 NJM4580ED-TFB (1/2)
IC406 NJM4580ED-TFB (2/2)
IC407 NJM4580ED-TFB (1/2)
IC407 NJM4580ED-TFB (2
IC411 NJM4580ED-TFB (1/2)
IC411 NJM4580ED-TFB (2/2)
IC412 NJM4580ED-TFB (1/2)
IC412 NJM4580ED-TFB (2
VR401 DCS1054 (1/2)
VR401 DCS1054 (2/2)
VR402 DCS1053 (1/2)
VR402 DCS1053 (2/2)
VR405 DCS1054 (1/2)
VR405 DCS1054 (2/2)
VR406 DCS1053 (1/2)
VR406 DCS1053 (2/2)
VR409 DCS1054 (1/2)
VR409 DCS1054 (2/2)
VR410 DCS1053 (1/2)
VR410 DCS1053 (2/2)
10K-B
CFTNA-TD
V+BB
V-BB
GNDA
STBY


(CH1)
IC403 NJM4580ED-TFB (1/2)
IC404 NJM4580ED-TFB (1/2)
VR403 DCS1053 (1/2)
VR404 DCS1053 (1/2)
MID VR
LOW VR
V+BB
C423
C425
C407 CEWAS-TS 0.47/50
C411 AL 10/16
R411 130
R415 180
C409 0.0056 DCE1009-A
C413 0.056 CFTNA-TD
R413 75K
R417 47K
C424 0.01YB
C426 0.01YB
GNDA
V-BB
C415 SL 27P
R419 5.1K
C427 0.01YB
C417 AL 47/16
CH1L
R421 100K
IC405 NJM4580ED-TFB (1/2)
C428 0.01YB
32
TP- CH1L
V: 0.2V/div
H: 0.2msec/div
GND
VR403 DCS1053 (2/2)
VR404 DCS1053 (2/2)
C408 CEWAS-TS 0.47/50
C412 AL 10/16
R412 130
R416 180
C410 0.0056 DCE1009-A
C414 0.056 CFTNA-TD
R414 75K
R418 47K
/2)
IC403 NJM4580ED-TFB (2/2)
IC404 NJM4580ED-TFB (2/2)
C416 SL 27P
R420 5.1K
C418 AL 47/16
CH1R
R422 100K
IC405 NJM4580ED-TFB (2/2)
(CH2)
IC408 NJM4580ED-TFB (1/2)
IC410 NJM4580ED-TFB (1/2)
VR407 DCS1053 (1/2)
VR408 DCS1053 (1/2)
C435 CEWAS-TS 0.47/50
C439 AL 10/16
C451
C453
R435 130
R439 180
C437 0.0056 DCE1009-A
C441 0.056 CFTNA-TD
R437 75K
R441 47K
C452 0.01YB
C454 0.01YB
C443 SL 27P
R443 5.1K
C455 0.01YB
C445 AL 47/16
CH2L
R445 100K
IC409 NJM4580ED-TFB (1/2)
C456 0.01YB
VR407 DCS1053 (2/2)
VR408 DCS1053 (2/2)
C436 CEWAS-TS 0.47/50
C440 AL 10/16
R436 130
R440 180
C438 0.0056 DCE1009-A
C442 0.056 CFTNA-TD
R438 75K
R442 47K
/2)
IC408 NJM4580ED-TFB (2/2)
IC409 NJM4580ED-TFB (2/2)
C444 SL 27P
R444 5.1K
C446 AL 47/16
CH2R
R446 100K
IC410 NJM4580ED-TFB (2/2)
(CH3)
IC413 NJM4580ED-TFB (1/2)
IC414 NJM4580ED-TFB (1/2)
VR411 DCS1053 (1/2)
VR412 DCS1053 (1/2)
C463 CEWAS-TS 0.47/50
C467 AL 10/16
C479
C481
R461 130
R465 180
C465 0.0056 DCE1009-A
C469 0.056 CFTNA-TD
R463 75K
R467 47K
C480 0.01YB
C482 0.01YB
C471 SL 27P
R469 5.1K
C483 0.01YB
IC415 NJM4580ED-TFB (1/2)
C473 AL 47/16
CH3L
R471 100K
C484 0.01YB
VR411 DCS1053 (2/2)
VR412 DCS1053 (2/2)
C464 CEWAS-TS 0.47/50
C468 AL 10/16
R462 130
R466 180
C466 0.0056 DCE1009-A
C470 0.056 CFTNA-TD
R464 75K
R468 47K
/2)
IC413 NJM4580ED-TFB (2/2)
IC414 NJM4580ED-TFB (2/2)
C472 SL 27P
R470 5.1K
C474 AL 47/16
CH3R
R472 100K
IC415 NJM4580ED-TFB (2/2)
CH1L
CH1R
CH2L
CH2R
CH3L
CH3R
D 3/6
D 6/6

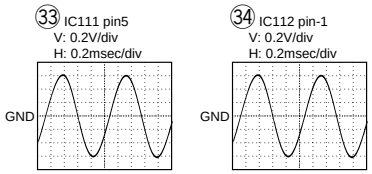
3.10 VR (6/6) and C.F ASSYS

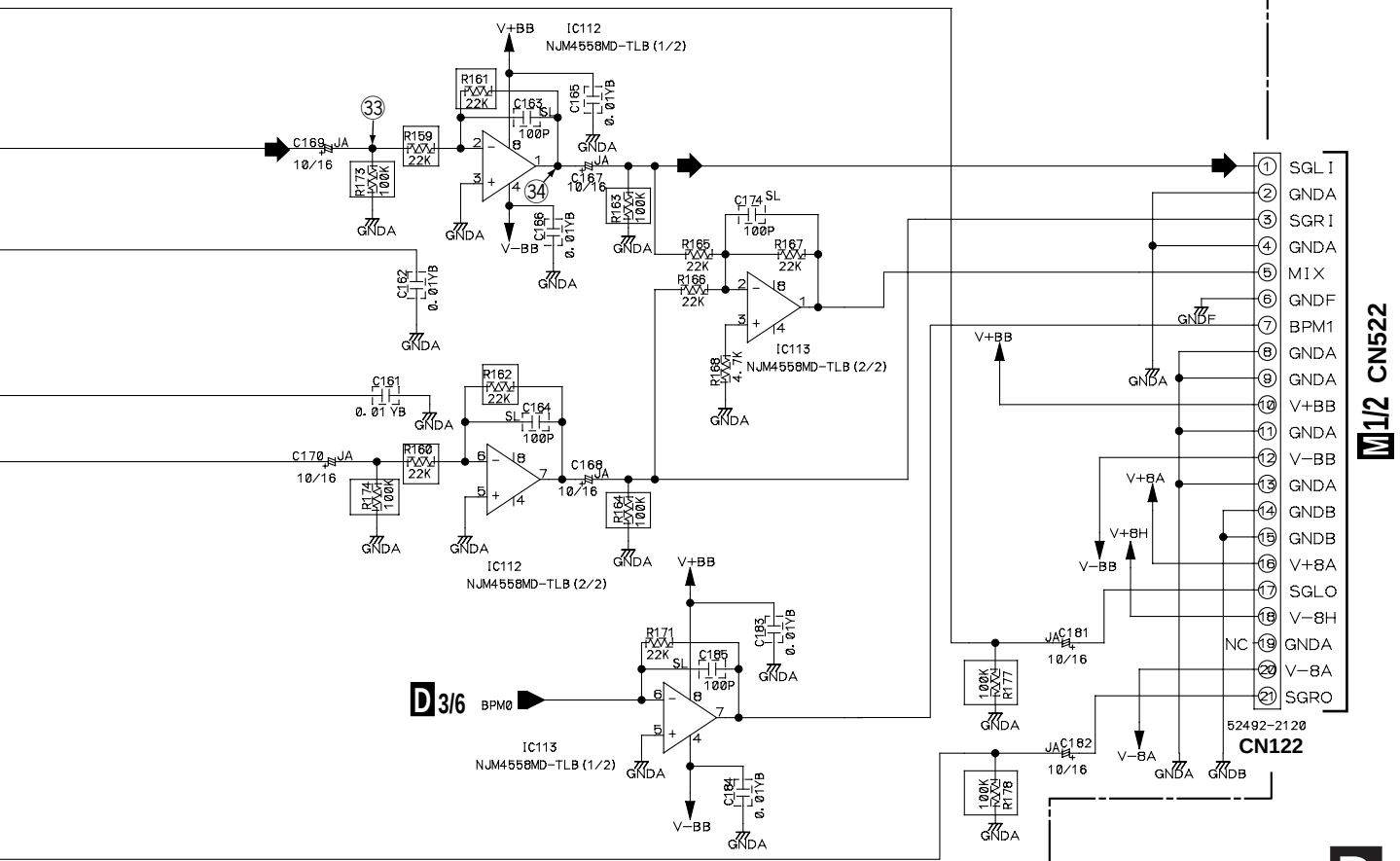




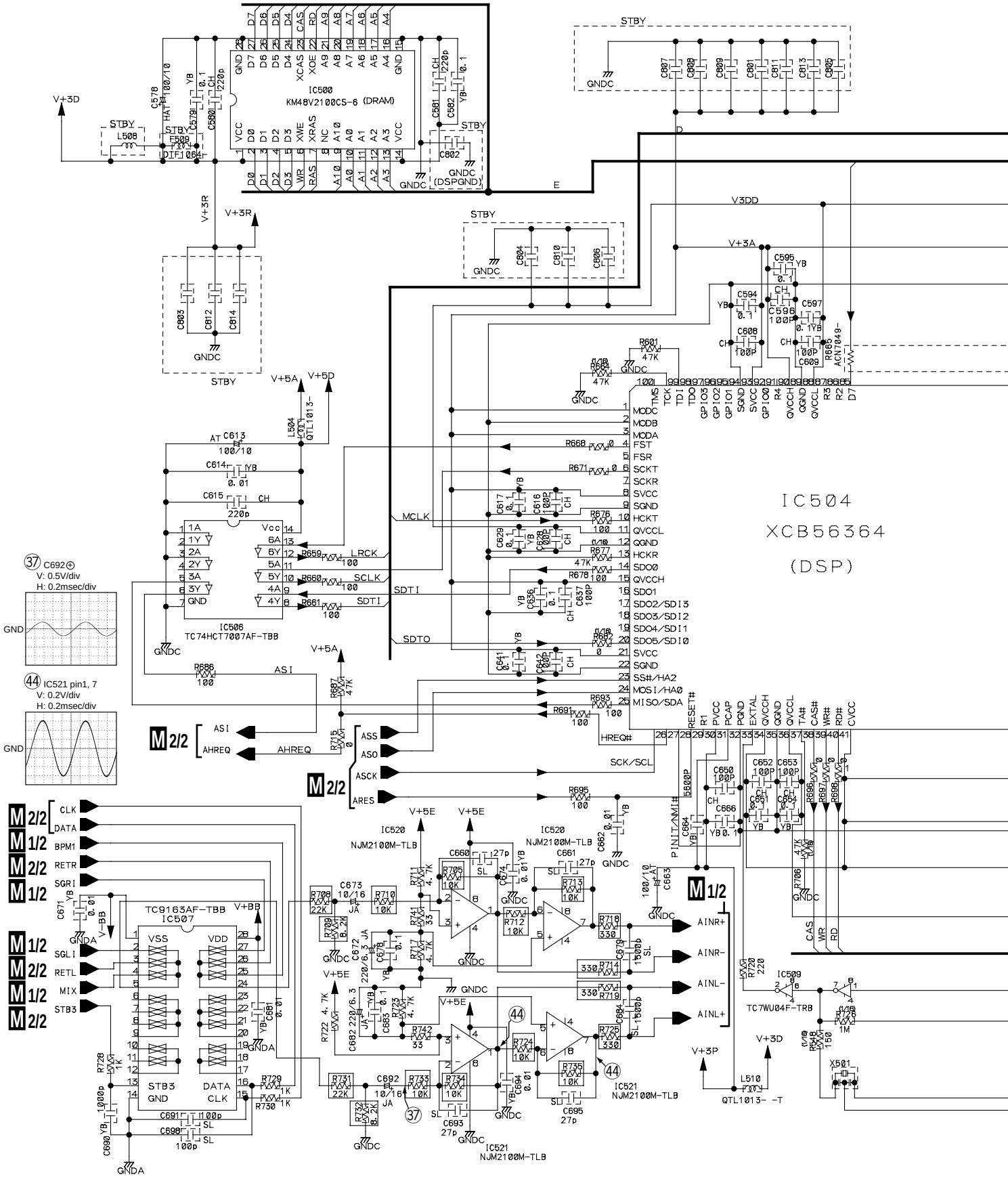
D 6/6

VR ASSY (6/6)
(DWG1517)

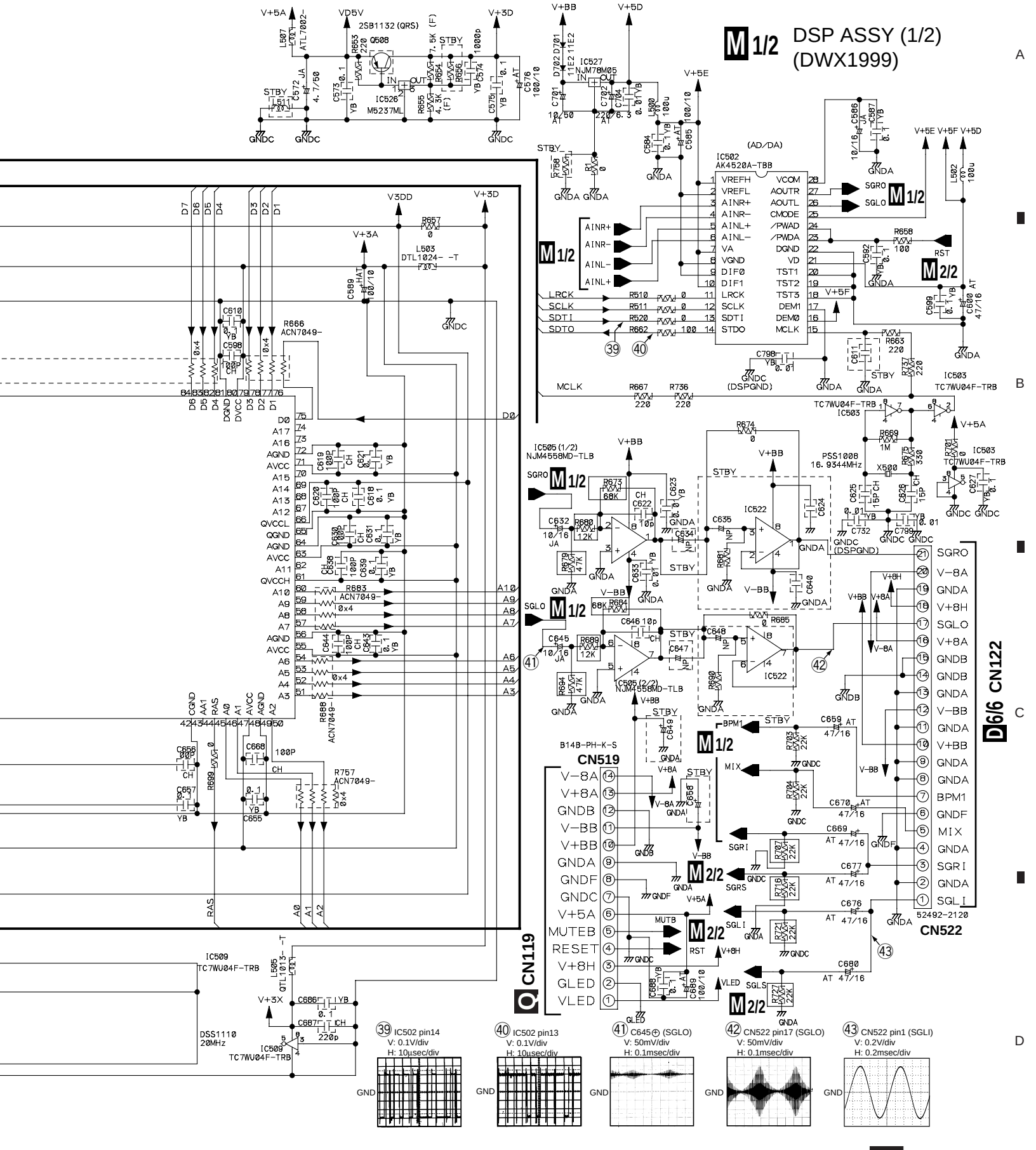




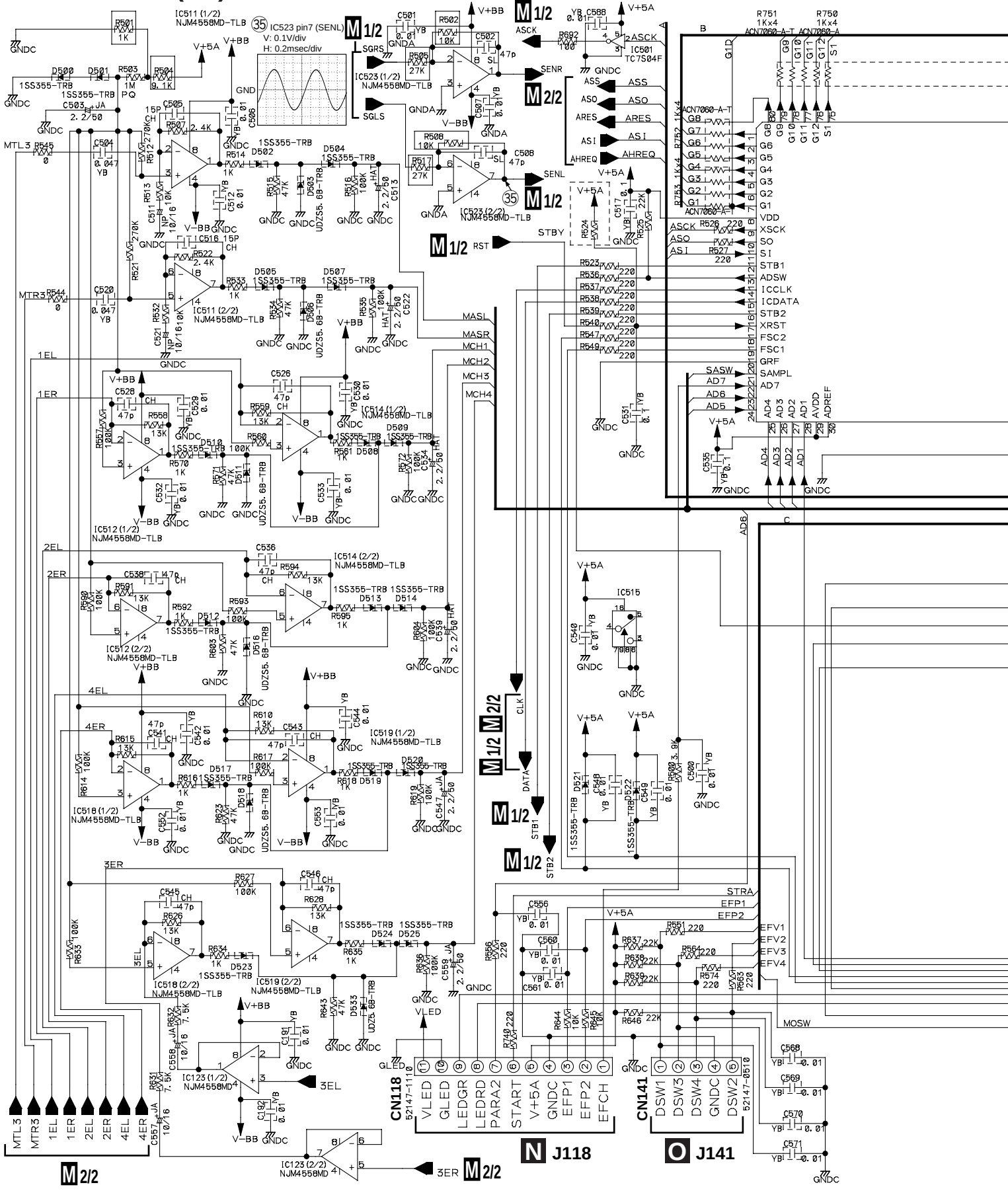
3.11 DSP ASSY (1/2)

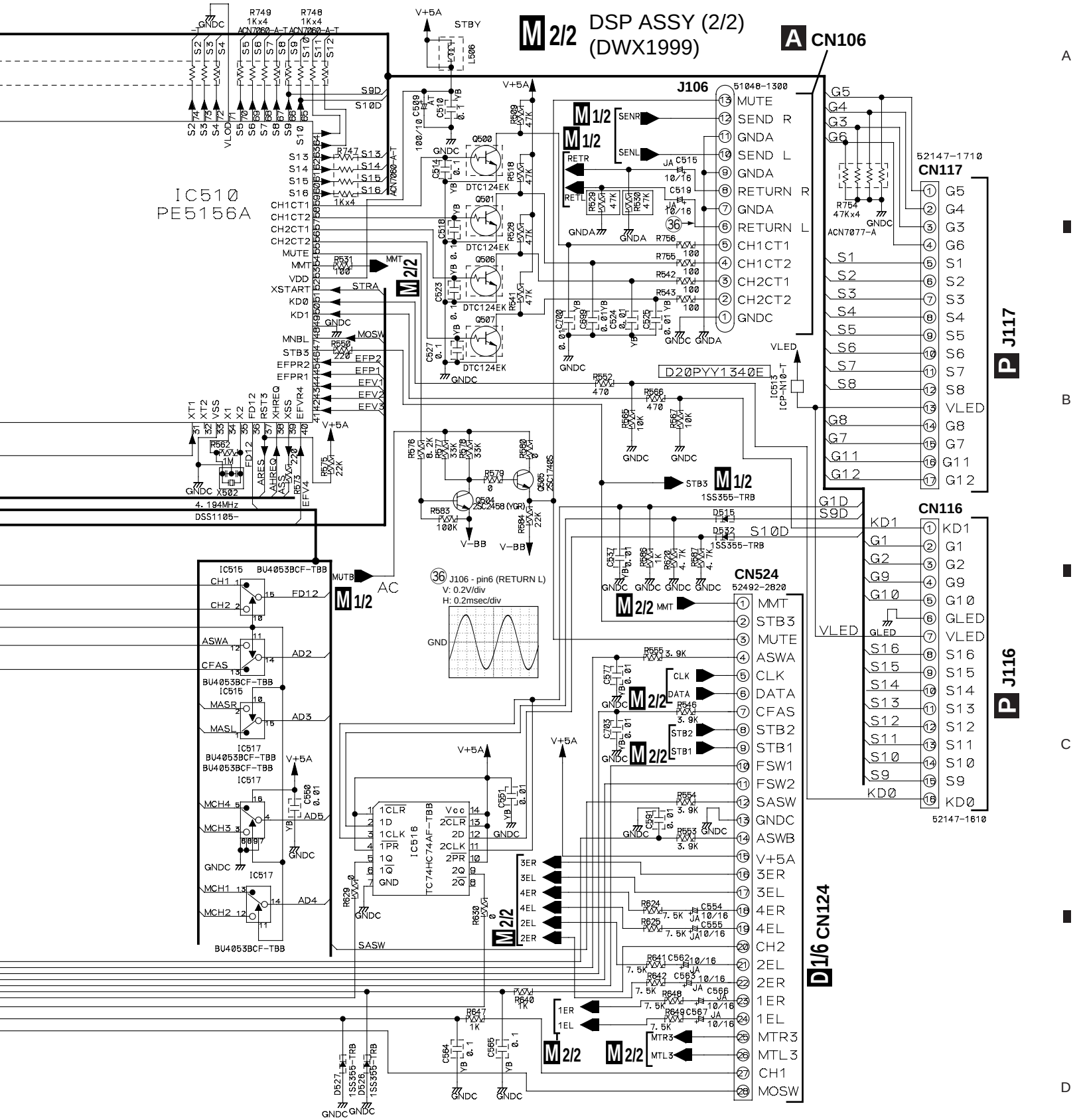


M 1/2 DSP ASSY (1/2) (DWX1999)



3.12 DSP ASSY (2/2)




M 2/2 DSP ASSY (2/2)
(DWX1999)
A CN106
J106
51048-1300
CN117
52147-1710
P J117
CN116
52147-1610
P J116
CN524
52492-2820
D 1/6 CN124
IC510
PE5156A
D20PYY1340E
IC515 BU4053BCF-TBB
IC516 TC74HC74AF-TBB
IC517 BU4053BCF-TBB
X502
4.194MHz
DSS1105-
J106 - pin6 (RETURN L)
V: 0.2V/div
H: 0.2msec/div
MUTE
SEND R
GNDA
SEND L
GNDA
RETURN R
GNDA
RETURN L
CH1CT1
CH1CT2
CH2CT1
CH2CT2
GNDC
G5
G4
G3
G6
S1
S2
S3
S4
S5
S6
S7
S8
VLED
G8
G7
G11
G12
KD1
G1
G2
G9
G10
GLED
S16
S15
S14
S13
S12
S11
S9
KD0
MMT
STB3
MUTE
ASWA
CLK
DATA
CFAS
STB2
STB1
FSW1
FSW2
SASW
GNDC
ASWB
V+5A
3ER
3EL
4ER
4EL
CH2
2EL
2ER
1ER
1EL
MTR3
MTL3
CH1
MOSW

■ 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

IC502	
PIN NO.	VOLTAGE
1	5.02V
2	24.0mV
3	2.48V
4	2.52V
5	2.48V
6	2.52V
7	5.01V
8	1.49mV
9	1.49mV
10	5.01V
11	2.49V
12	2.49V
13	3.00V
14	1.52V
15	2.44V
16	5.08V
17	15.0mV
18	15.0mV
19	15.0mV
20	15.0mV
21	5.08V
22	14.7mV
23	5.0V
24	5.0V
25	4.89V
26	2.51V
27	2.51V
28	2.50V

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

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

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

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

IC507	
PIN NO.	VOLTAGE
1	-15.1V
2	14.9mV
3	7.7mV
4	14.9mV
5	14.9mV
6	-
7	-
8	-
9	-
10	-
11	-
12	-
13	15.9mV
14	7.6mV
15	4.96V
16	17.2mV
17	-
18	-
19	-
20	-
21	-
22	-
23	-
24	-
25	14.9mV
26	14.7mV
27	14.9mV
28	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

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

M 2/2 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	12.1mV
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

IC121	
PIN NO.	VOLTAGE
1	12.5mV
2	12.5mV
3	12.1mV
4	-15.1V
5	12.2mV
6	12.2mV
7	12.2mV
8	14.8V

IC122	
PIN NO.	VOLTAGE
1	12.2mV
2	12.2mV
3	12.2mV
4	-15.1V
5	12.2mV
6	12.2mV
7	12.2mV
8	14.8V

IC124	
PIN NO.	VOLTAGE
1	12.3mV
2	12.3mV
3	12.3mV
4	-15.1V
5	12.3mV
6	12.3mV
7	12.3mV
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

IC310	
PIN NO.	VOLTAGE
1	3.8mV
2	1.4mV
3	1.2mV
4	-7.94V
5	0.7mV
6	1.1mV
7	1.1mV
8	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

IC205	
PIN NO.	VOLTAGE
1	9.4mV
2	11.0mV
3	11.0mV
4	-15.1V
5	11.0mV
6	11.0mV
7	9.8mV
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

IC306	
PIN NO.	VOLTAGE
1	-2.9mV
2	0.2mV
3	0.2mV
4	-7.94V
5	0.2mV
6	0.2mV
7	-2.8mV
8	7.91V

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

IC307, IC309	
PIN NO.	VOLTAGE
1	-2.7mV
2	0.2mV
3	0.2mV
4	-7.94V
5	0.2mV
6	0.2mV
7	-2.7V
8	7.91V

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	0.6mV
6	1.2mV
7	1.2mV
8	7.91V

D 3/6 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

D 4/6 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

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

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

IC304	
PIN NO.	VOLTAGE
1	35.7mV
2	35.7mV
3	35.7mV
4	-15.9V
5	35.7mV
6	35.7mV
7	35.7mV
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

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

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

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

D 5/6 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

D 6/6 VR ASSY

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

IC115	
PIN NO.	VOLTAGE
1	11.1mV
2	272mV
3	11.1mV
4	-7.94V
5	-7.9V
6	-7.95V
7	-7.95V
8	-7.95V
9	-7.95V
10	-7.95V
11	7.87V
12	-7.95V
13	-184mV
14	-57.8mV
15	272mV
16	7.91V

IC116	
PIN NO.	VOLTAGE
1	-2.69V
2	4.31V
3	-2.54V
4	-7.95V
5	-7.95V
6	-7.95V
7	-7.95V
8	-7.95V
9	-7.95V
10	-7.95V
11	7.89V
12	-7.95V
13	-4.64V
14	-4.64V
15	4.31V
16	7.91V

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

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

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	11.7mV
5	11.7mV
6	11.7mV
7	11.7mV
8	-15.2V
9	11.7mV
10	11.7mV
11	11.7mV
12	11.7mV
13	11.7mV
14	11.7mV
15	11.7mV
16	14.8V

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

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

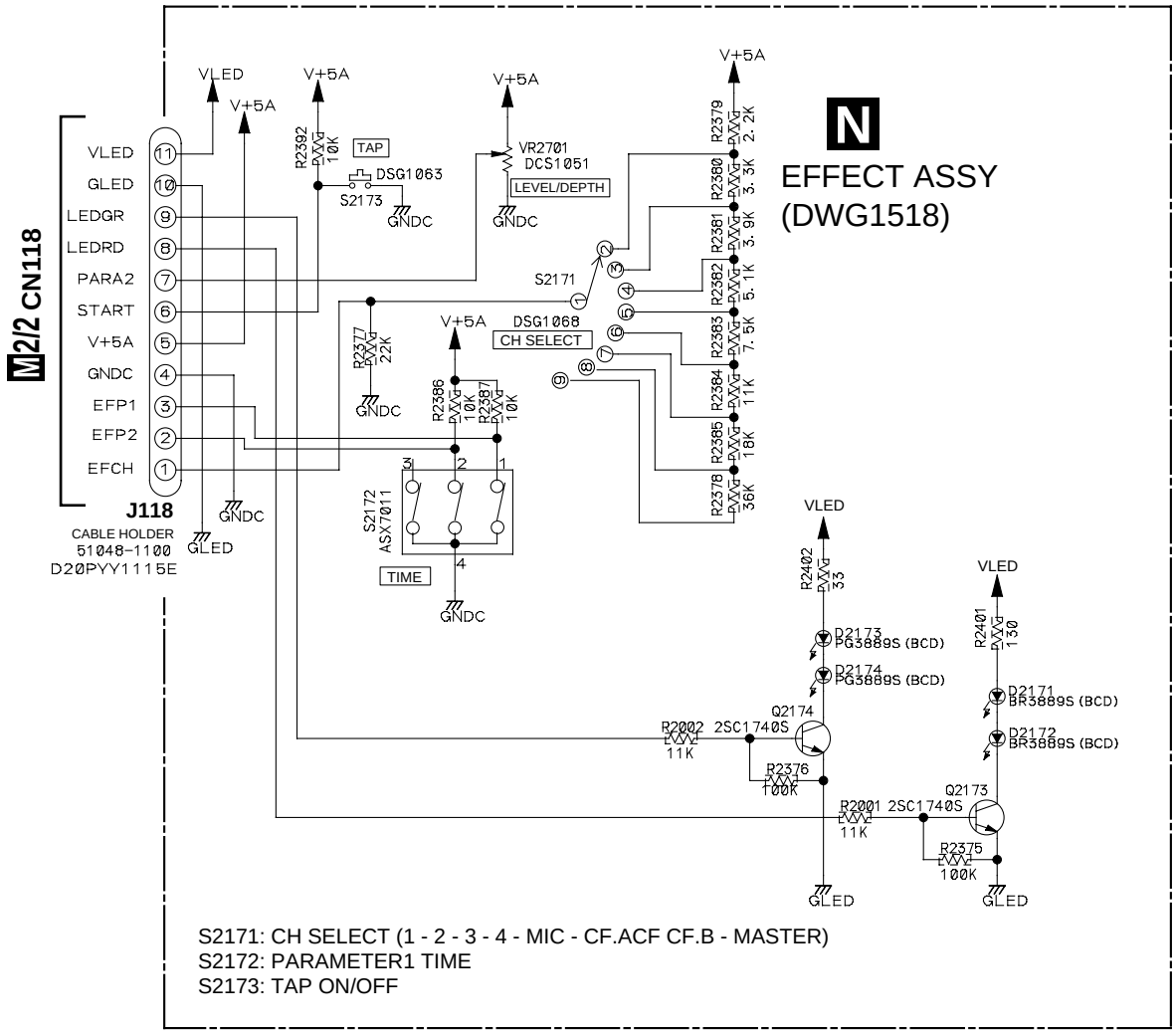
IC604	
PIN NO.	VOLTAGE
1	7.7mV
2	7.7mV
3	7.7mV
4	7.7mV
5	7.90V
6	7.93V
7	-7.96V
8	7.93V
9	7.93V
10	7.93V
11	7.93V
12	7.93V
13	7.90V
14	7.93V

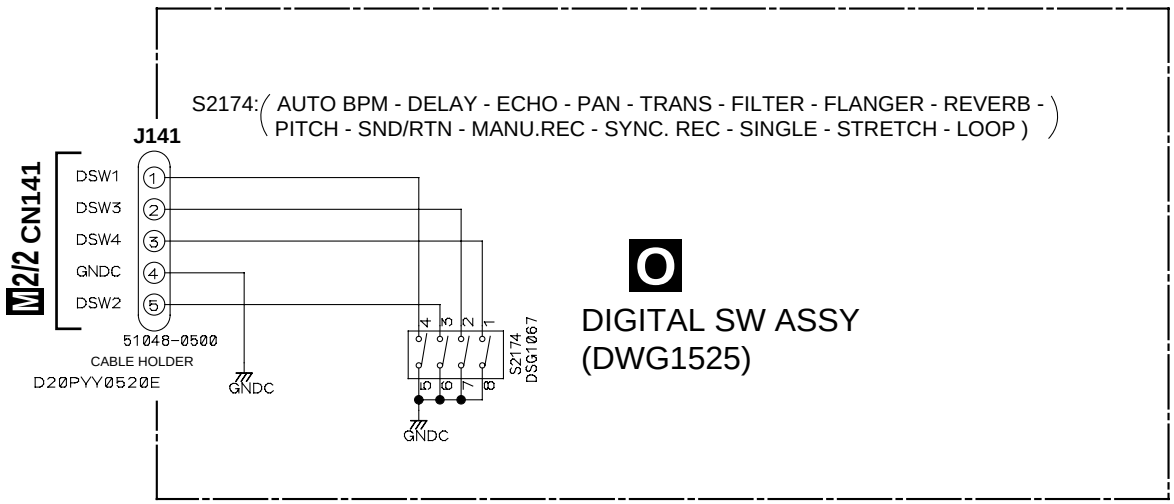
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PIN NO.	VOLTAGE
1	6.5mV
2	9.5mV
3	9.5mV
4	-15.8V
5	10.6mV
6	10.6mV
7	13.6mV
8	14.8V

IC605	
PIN NO.	VOLTAGE
1	11.9mV
2	11.9mV
3	11.9mV
4	-15.8V
5	30.2mV
6	30.2mV
7	8.12mV
8	14.8V

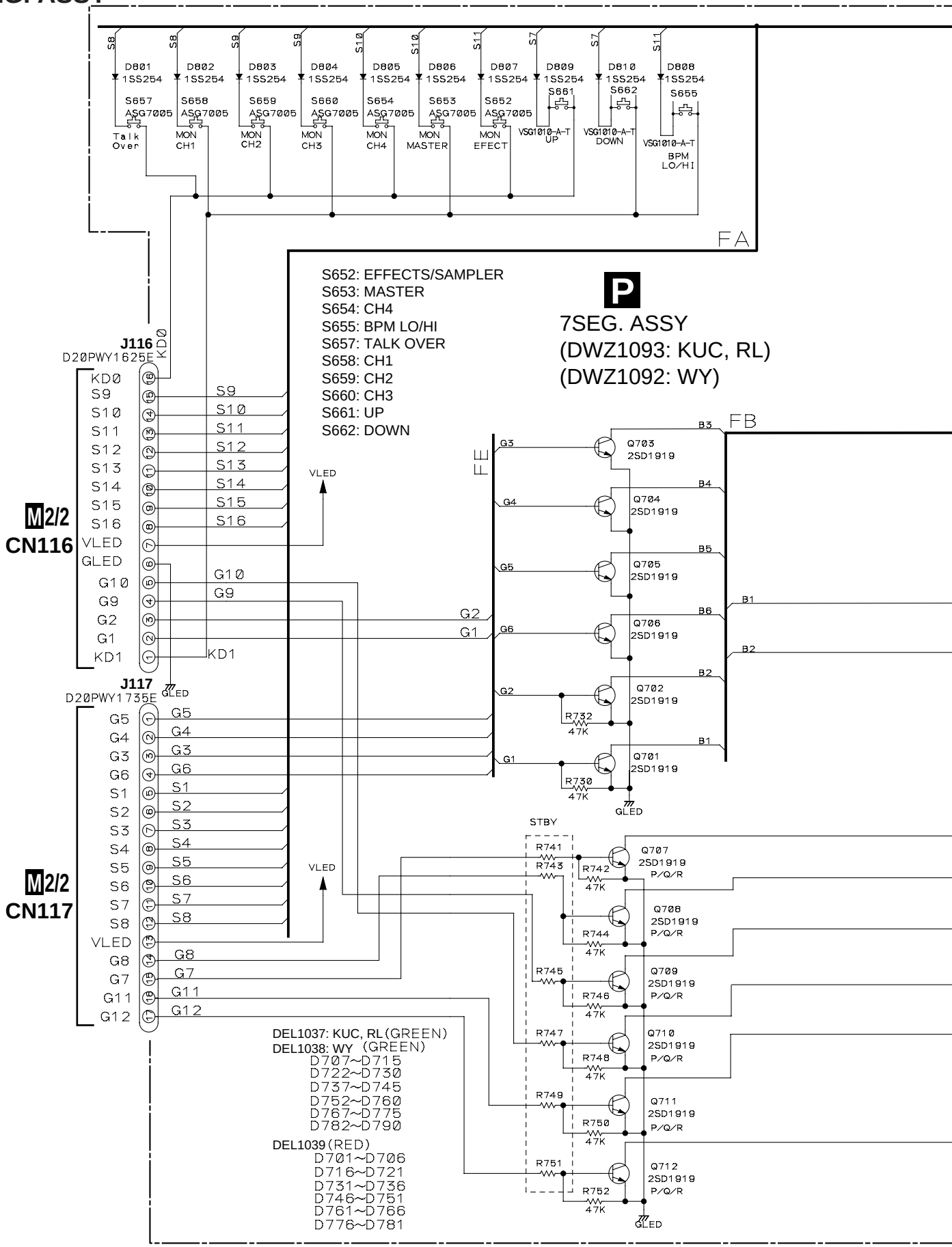
IC606	
PIN NO.	VOLTAGE
1	5.2mV
2	5.2mV
3	5.2mV
4	5.8V
5	5.3mV
6	5.5mV
7	5.5mV
8	14.8V

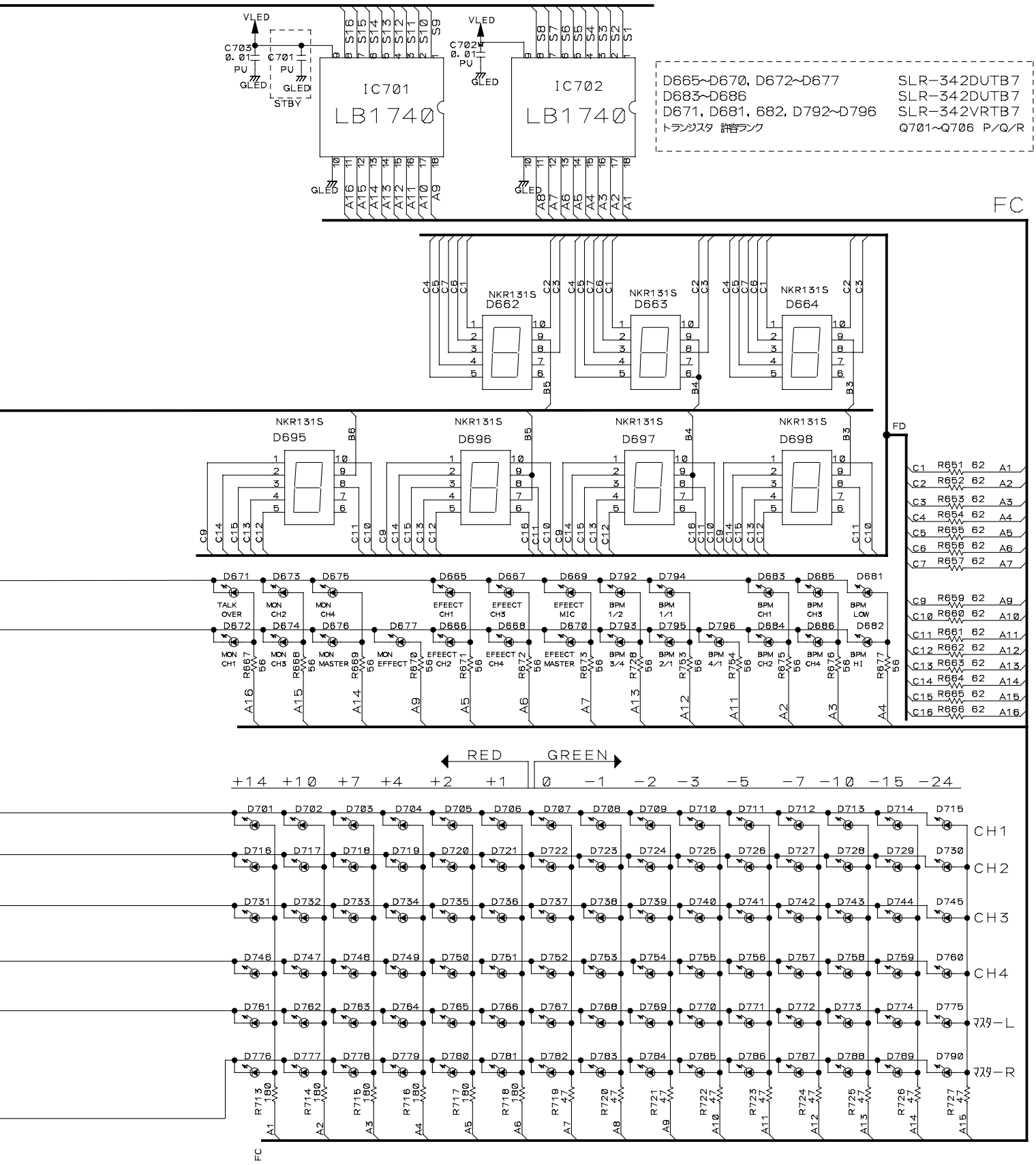
3.13 EFFCT and DIGITAL SW ASSY



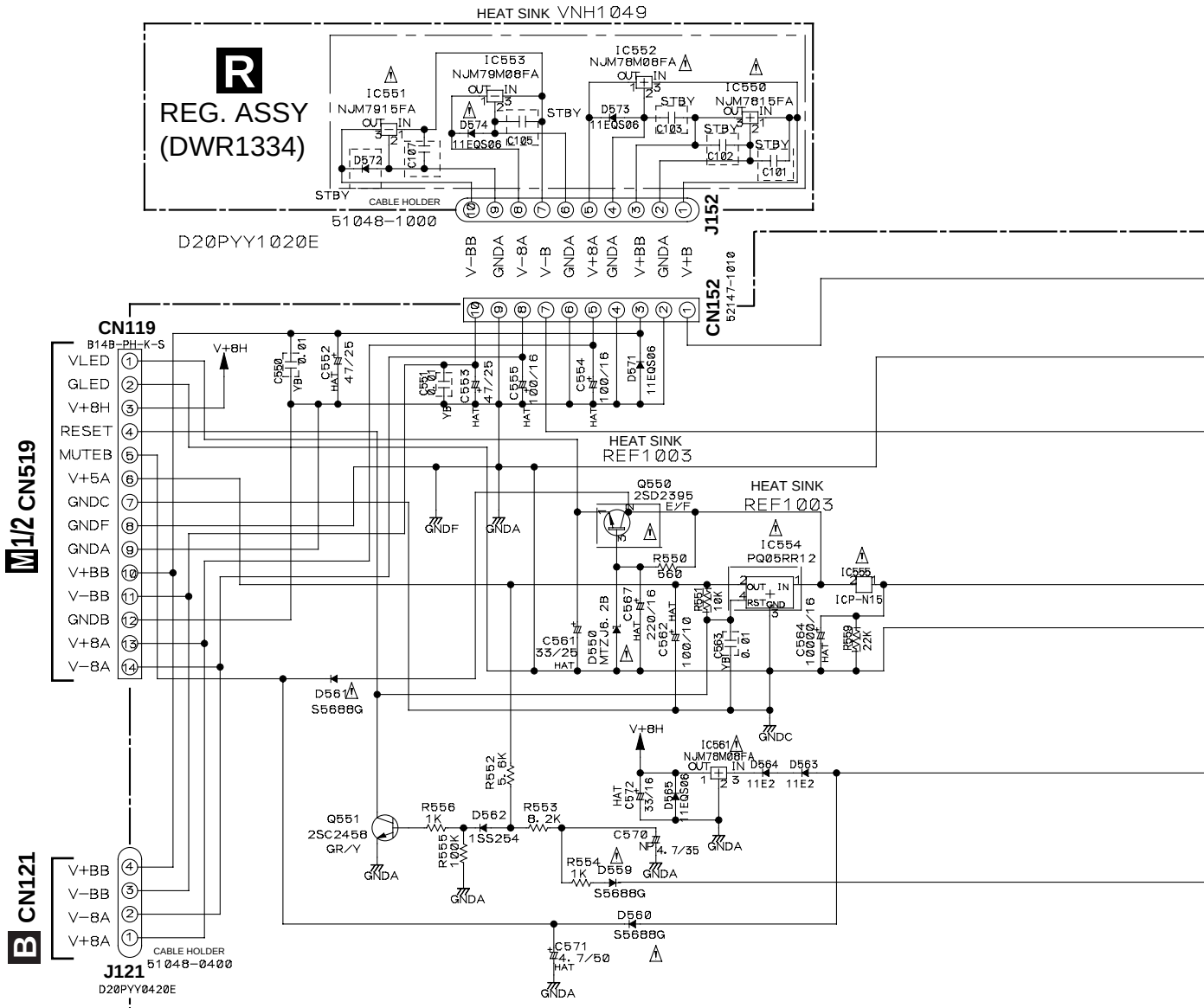


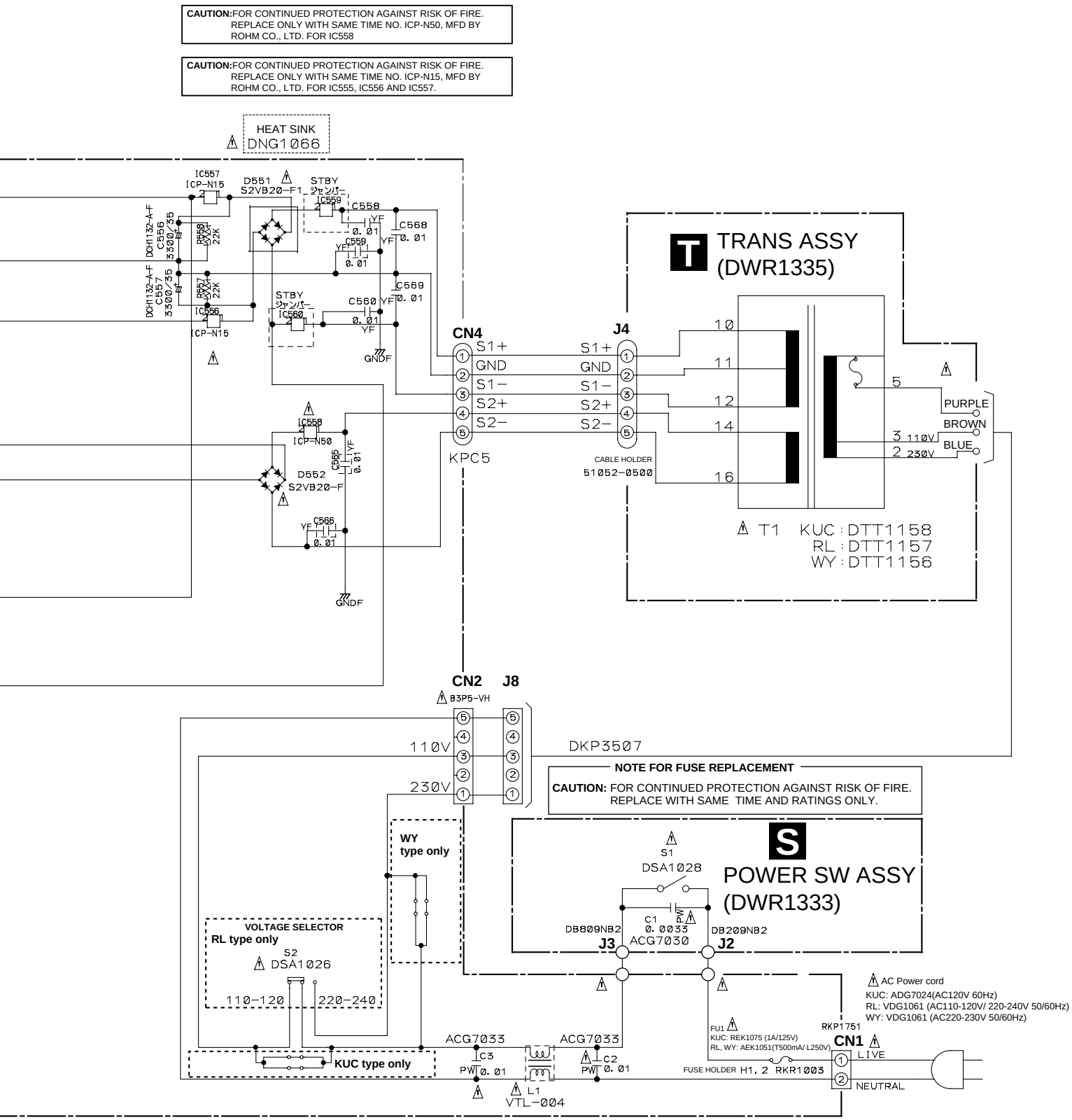
3.14 7SEG. ASSY




VLED
C703 0.01 PU
C701 PU
GLED
STBY
IC701
LB1740
C702 0.01 PU
IC702
LB1740
D665~D670, D672~D677 SLR-342DUTB7
D683~D686 SLR-342DUTB7
D671, D681, 682, D792~D796 SLR-342VRTB7
トランジスタ 許容ランク Q701~Q706 P/Q/R
FC
NKR131S D662
NKR131S D663
NKR131S D664
NKR131S D695
NKR131S D696
NKR131S D697
NKR131S D698
FD
TALK OVER
MON CH2
MON CH4
EFEECT CH1
EFEECT CH3
EFEECT MIC
BPM 1/2
BPM 1/1
BPM CH1
BPM CH3
BPM LOW
MON CH1
MON CH3
MON MASTER
MON EFFECT
EFEECT CH2
EFEECT CH4
EFEECT MASTER
BPM 3/4
BPM 2/1
BPM 4/1
BPM CH2
BPM CH4
BPM HI
RED
GREEN
+14 +10 +7 +4 +2 +1 0 -1 -2 -3 -5 -7 -10 -15 -24
CH1
CH2
CH3
CH4
マスター L
マスター R

3.15 REG., POWER, TRANS and POWER SW ASSYS




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 IC555, IC556 AND IC557.
HEAT SINK
DNG1066
T TRANS ASSY (DWR1335)
CN4
J4
S1+
GND
S1−
S2+
S2−
KPC5
CABLE HOLDER
51052-0500
PURPLE
BROWN
BLUE
110V
230V
T1 KUC : DTT1158
RL : DTT1157
WY : DTT1156
CN2
J8
B3P5-VH
DKP3507
NOTE FOR FUSE REPLACEMENT
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TIME AND RATINGS ONLY.
S POWER SW ASSY (DWR1333)
S1
DSA1028
DB809NB2
J3
DB209NB2
J2
ACG7030
C1 0.0033
WY type only
VOLTAGE SELECTOR
RL type only
S2
DSA1026
110-120
220-240
KUC type only
ACG7033
ACG7033
C3 0.01
C2 0.01
L1
VTL-004
FU1
KUC: REK1075 (1A/125V)
RL, WY: AEK1051(T500mA/ L250V)
FUSE HOLDER H1, 2 RKR1003
RKP1751
CN1
LIVE
NEUTRAL
AC Power cord
KUC: ADG7024(AC120V 60Hz)
RL: VDG1061 (AC110-120V/ 220-240V 50/60Hz)
WY: VDG1061 (AC220-230V 50/60Hz)

4. PCB CONNECTION DIAGRAM

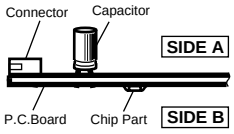
4.1 TERMINAL ASSY

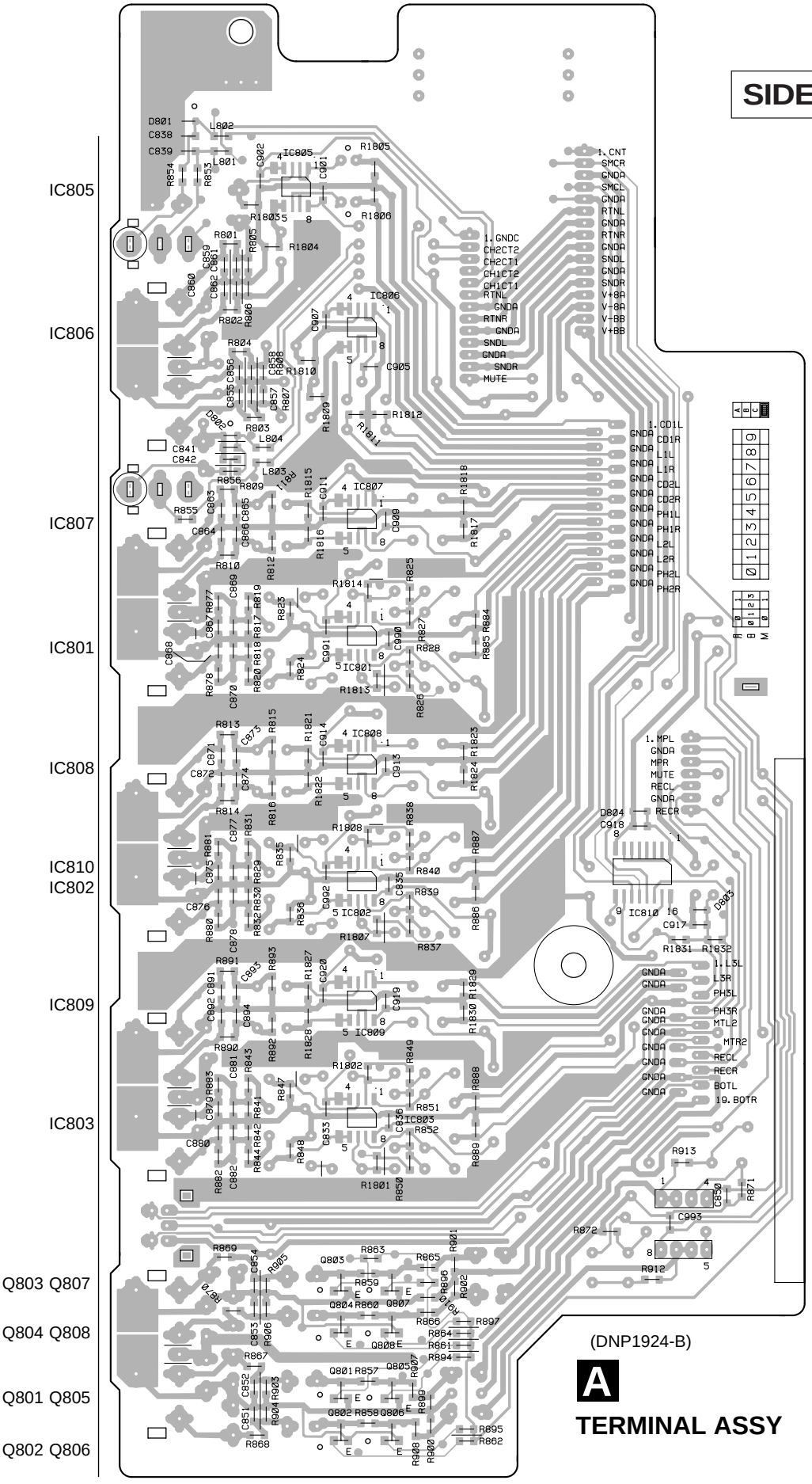
NOTE FOR PCB DIAGRAMS :

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.

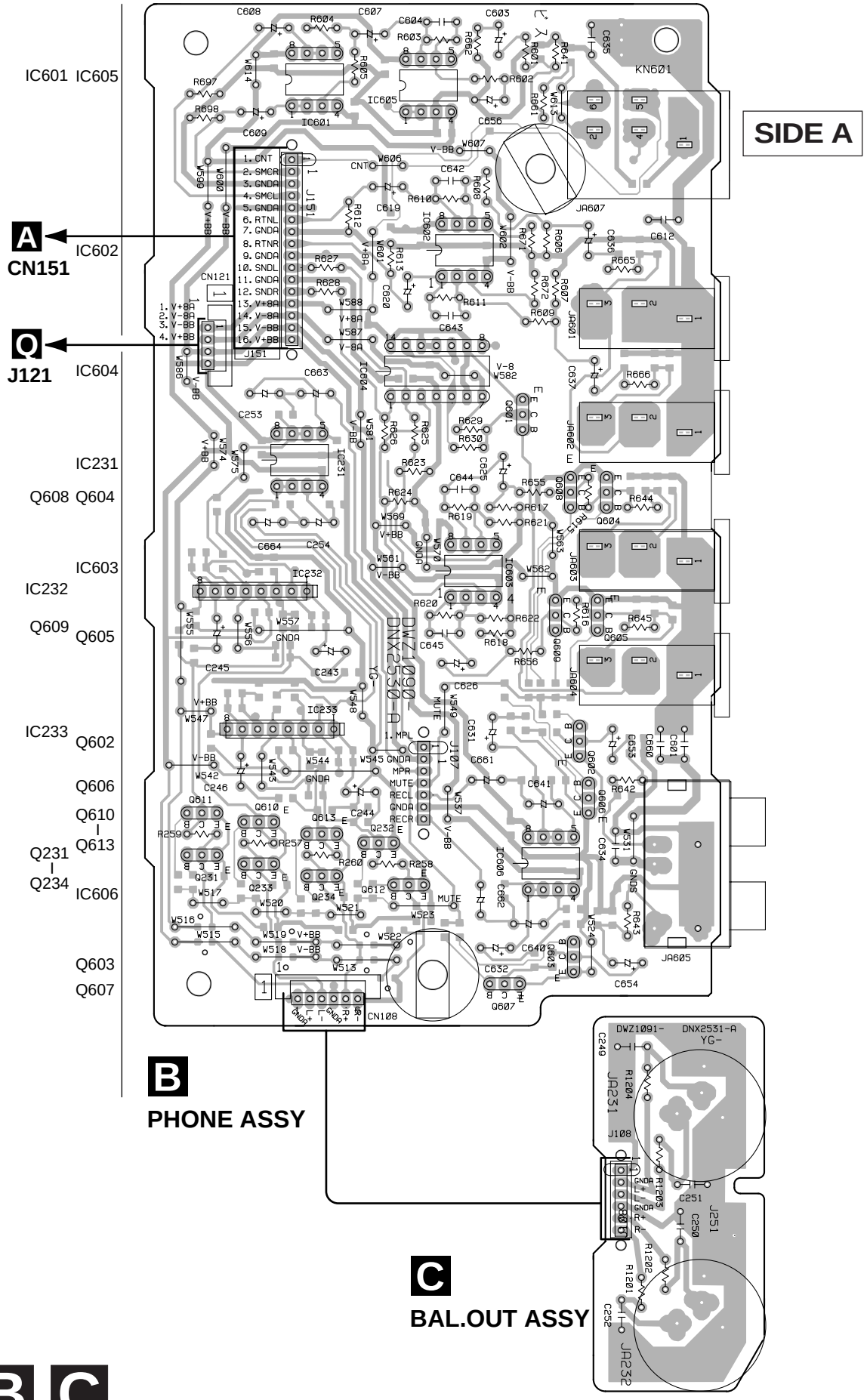
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E	Transistor
B C E	B C E	Transistor with resistor
D G S	D G S	Field effect transistor
		Resistor array
		3-terminal regulator

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.

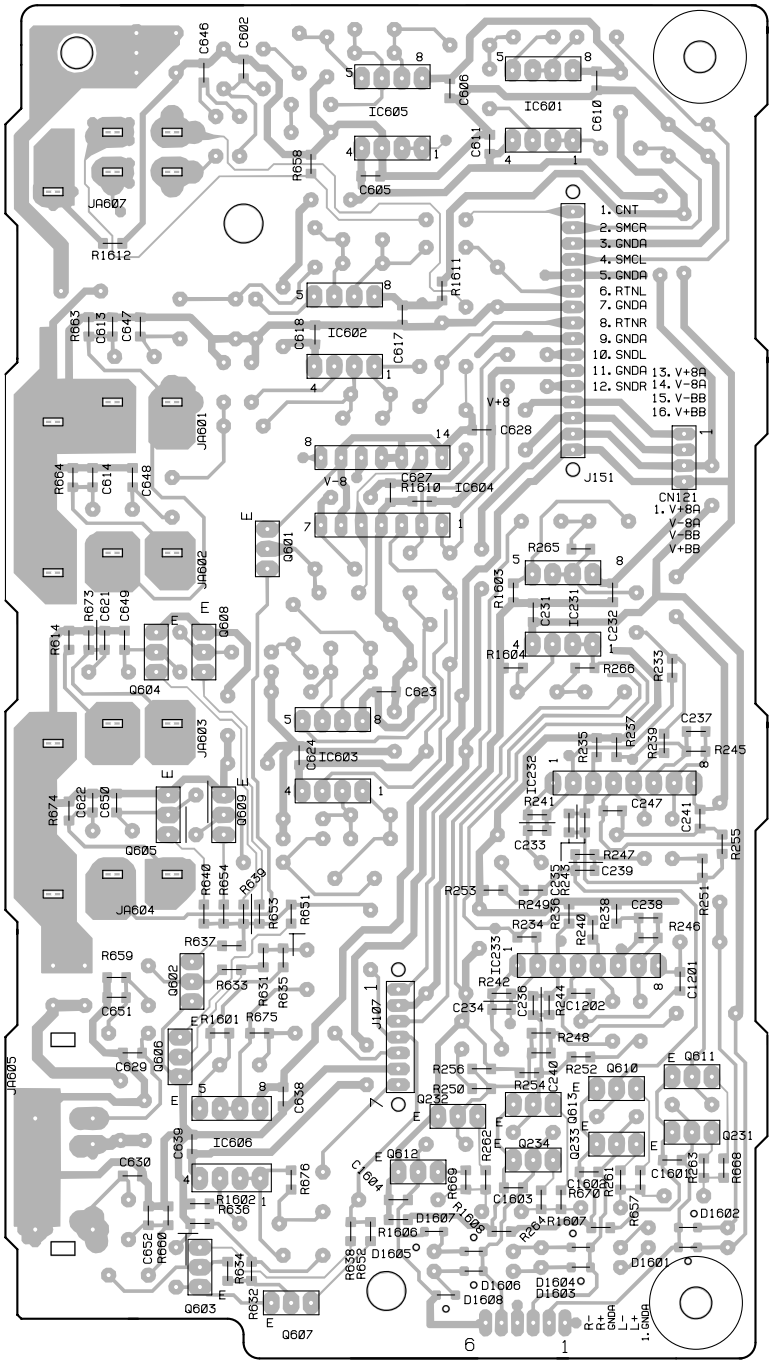



SIDE B
IC805
IC806
IC807
IC801
IC808
IC810
IC802
IC809
IC803
Q803 Q807
Q804 Q808
Q801 Q805
Q802 Q806
(DNP1924-B)
A
TERMINAL ASSY

4.2 PHONE and BAL.OUT ASSYS



SIDE B



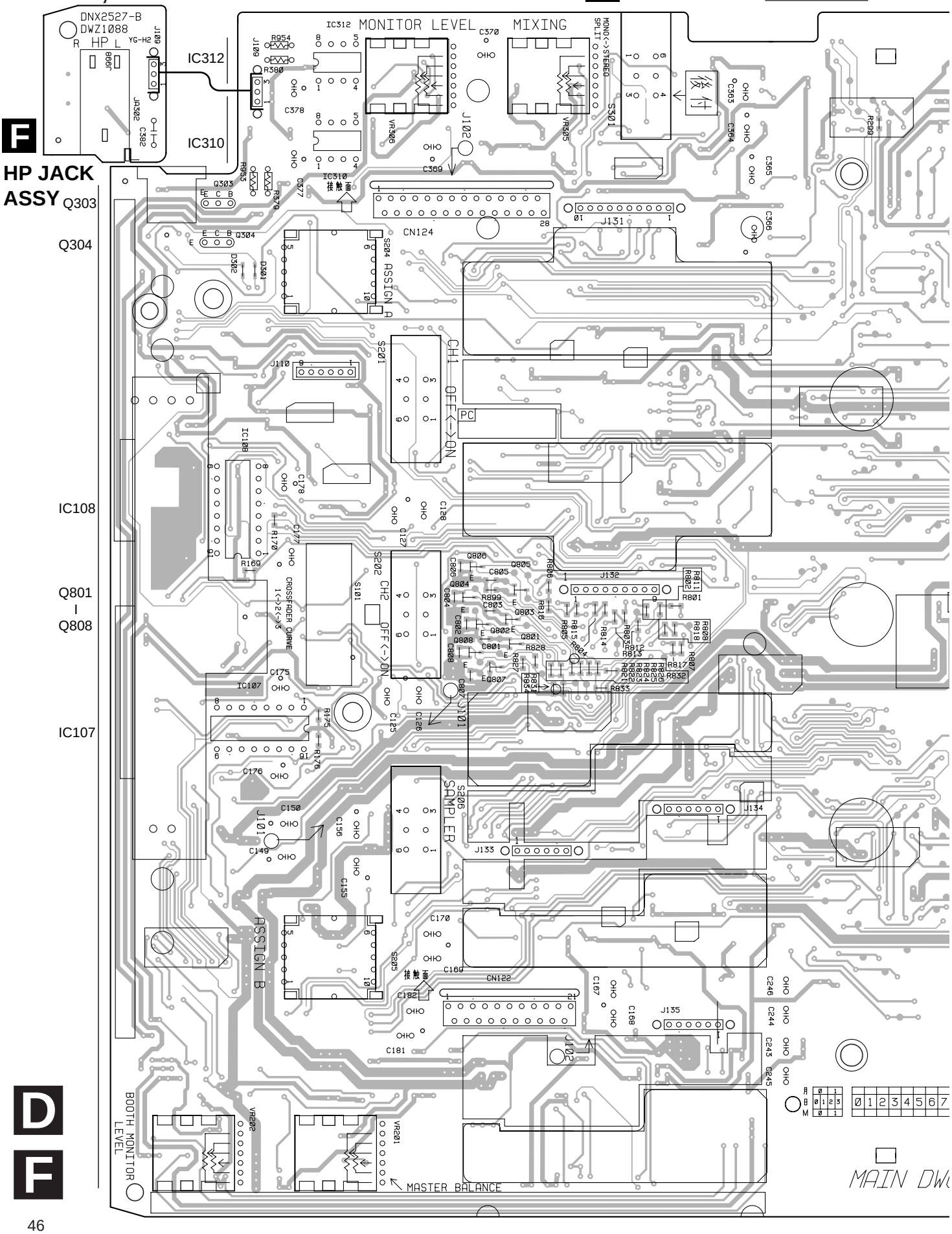
B

PHONE ASSY

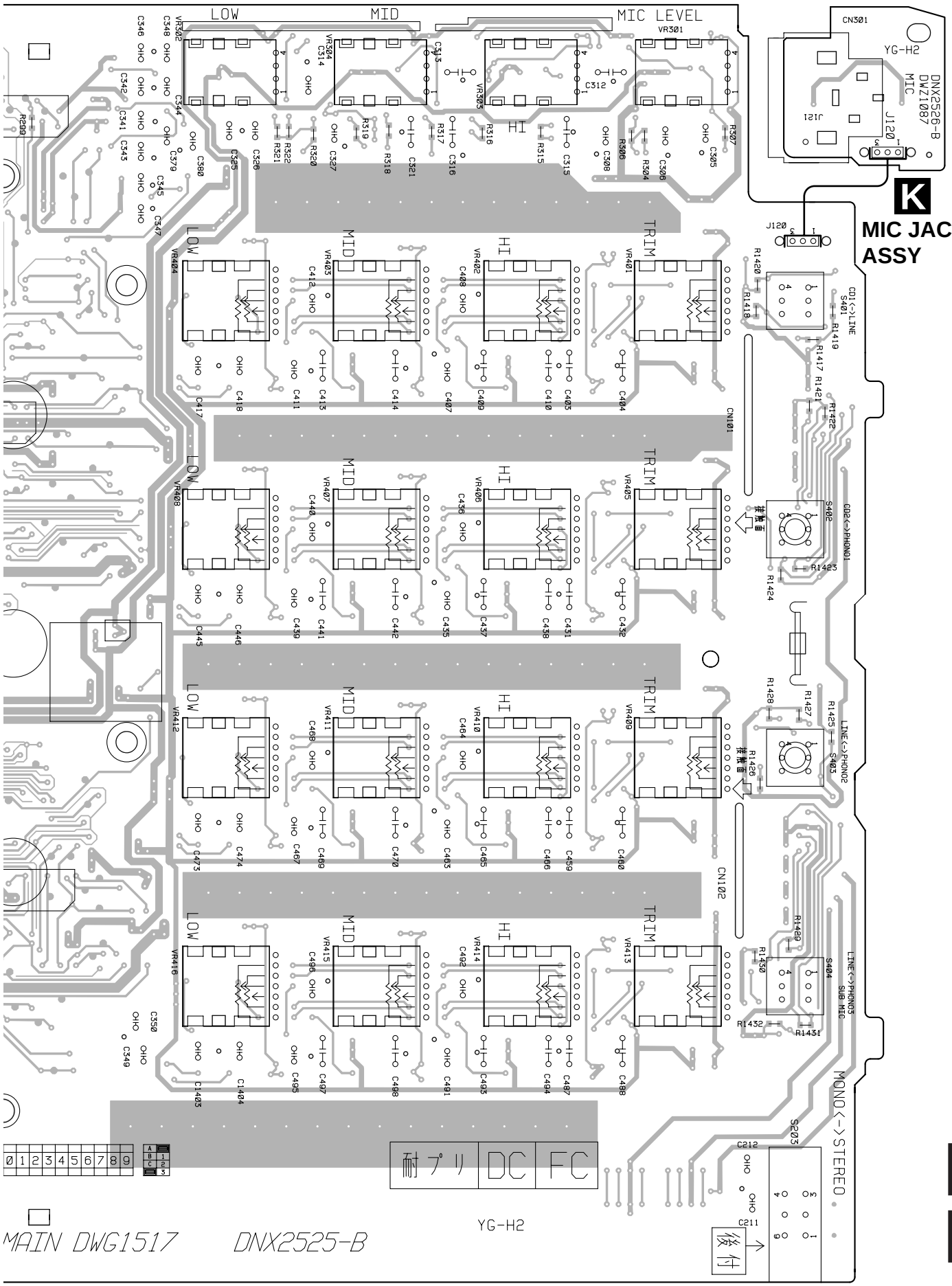
4.3 VR, HP JACK and MIC JACK ASSYS

D VR ASSY

SIDE A



SIDE A

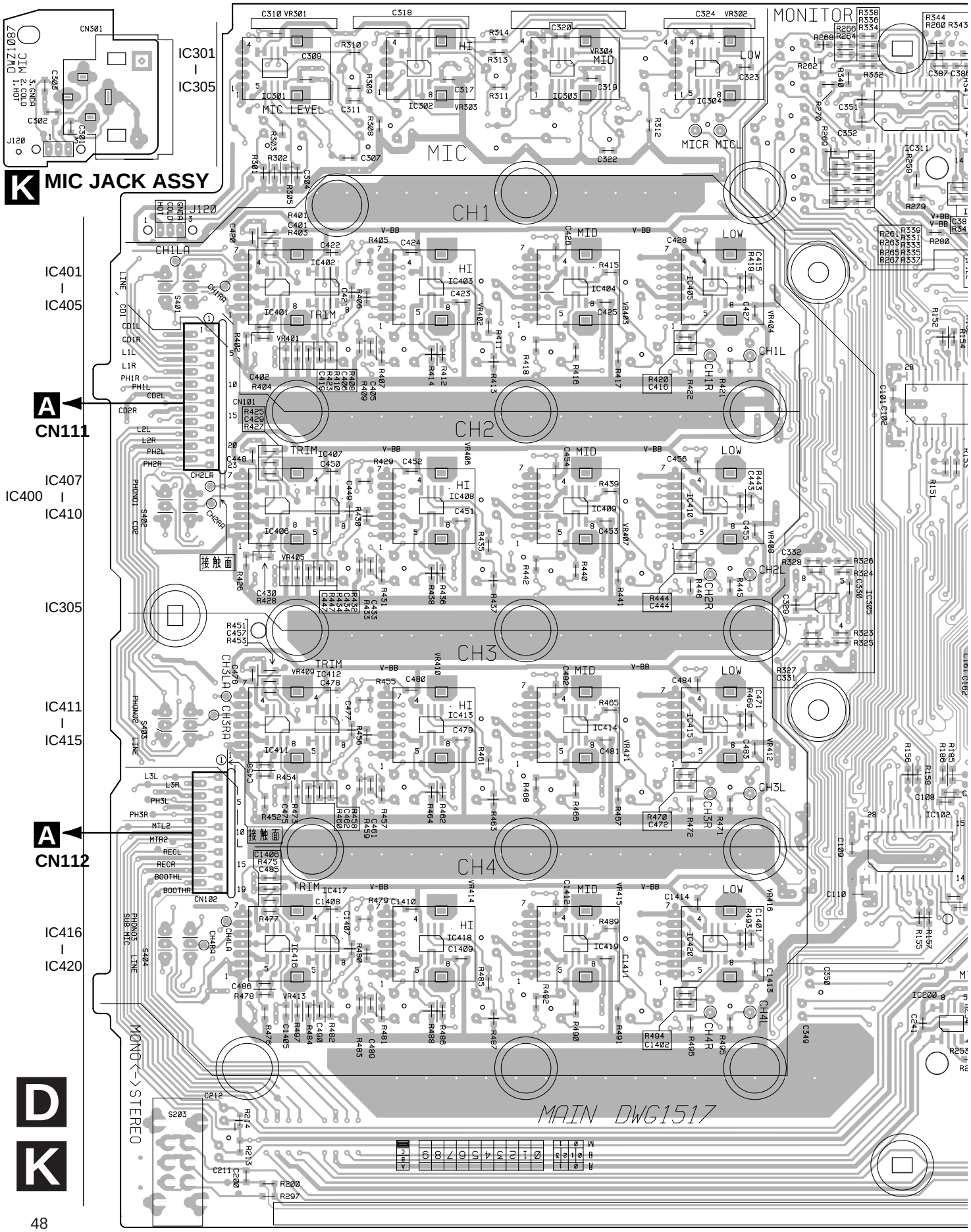


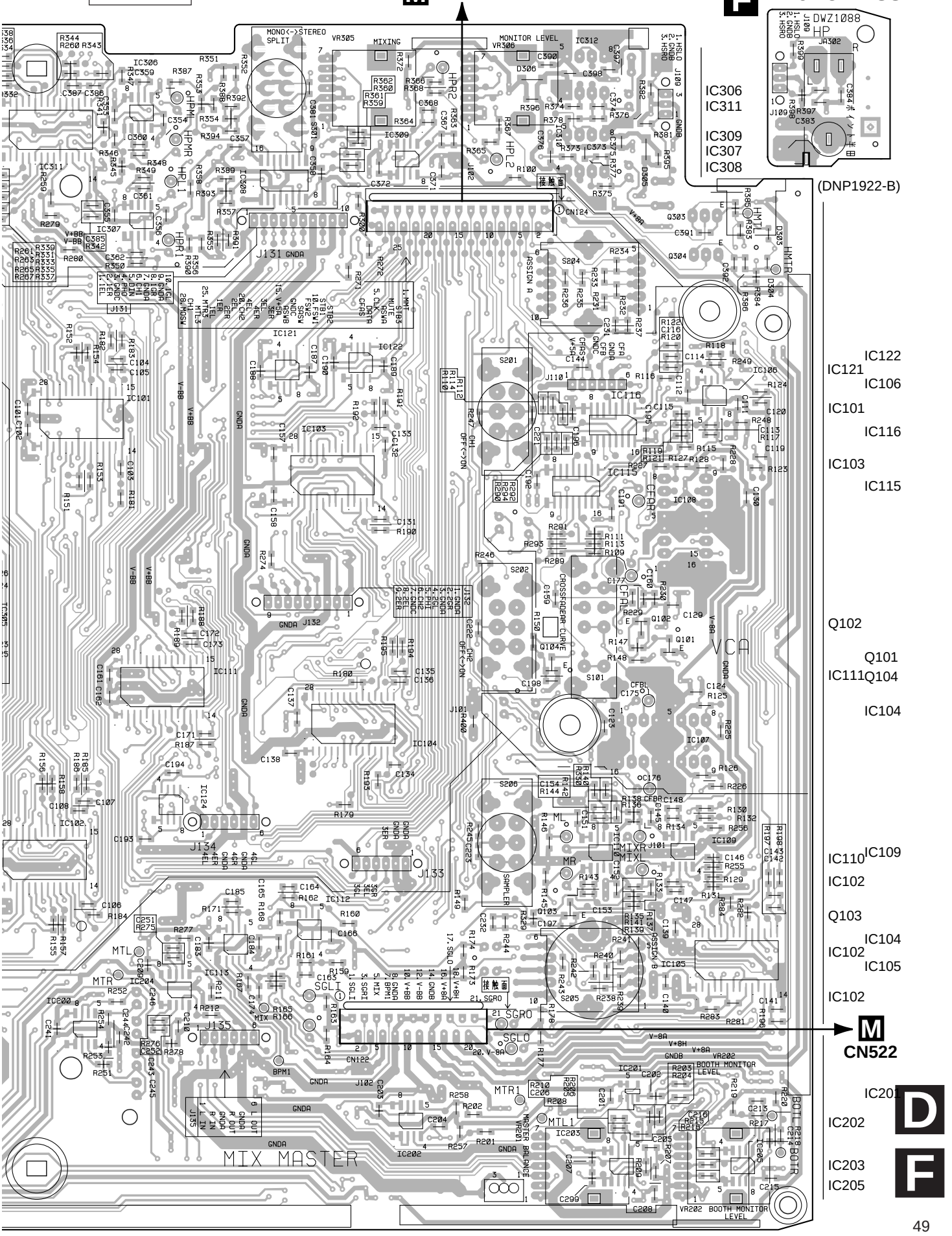
K

MIC JACK ASSY

SIDE B

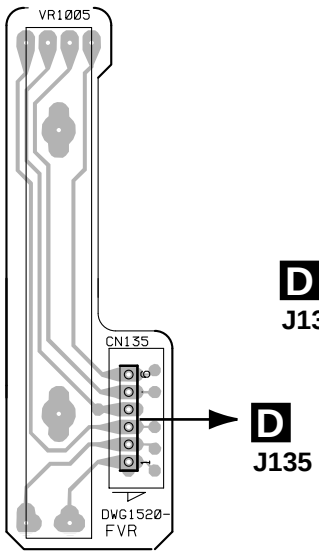
D VR ASSY



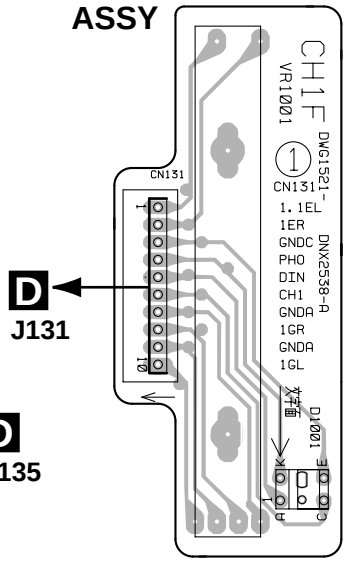

SIDE B
M CN524
F HP JACK ASSY
(DNP1922-B)
IC306
IC311
IC309
IC307
IC308
IC122
IC121
IC106
IC101
IC116
IC103
IC115
Q102
Q101
IC111
Q104
IC104
IC110
IC109
IC102
Q103
IC105
IC201
IC202
IC203
IC205
M CN522
MIX MASTER
VCA
MIXR
MIXL
MR
ML
MTR
MTL
MTR1
MTL1
SCLT
SCLO
SCRO
SAMPLER
CROSSFADER CURVE
ASSIGN A
ASSIGN B
MASTER BALANCE
BOOTH MONITOR LEVEL
MONITOR LEVEL
MIXING
MONO<->STEREO SPLIT
CH1 OFF<->ON
CH2 OFF<->ON
A
B
C
D
F

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

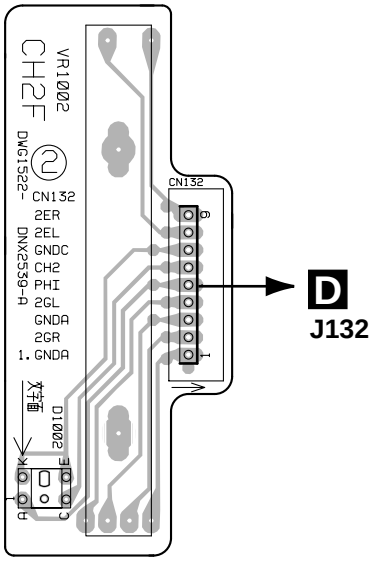
E
FADER VR (MAIN) ASSY



G
FADER VR (CH1) ASSY

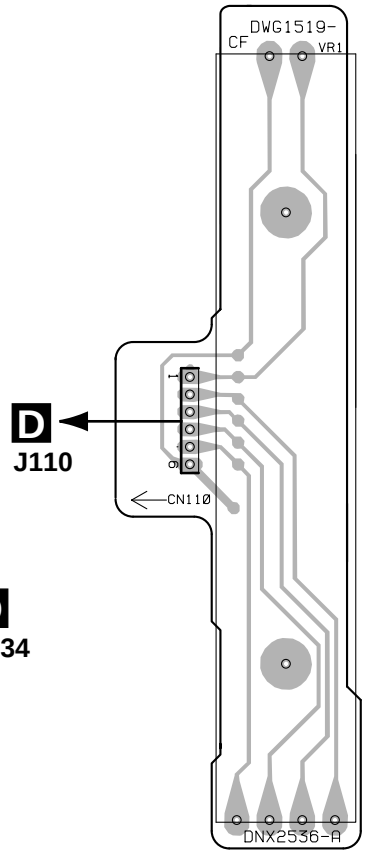


H
FADER VR (CH2) ASSY

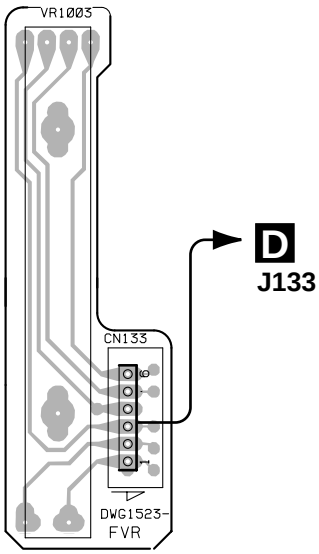


SIDE A

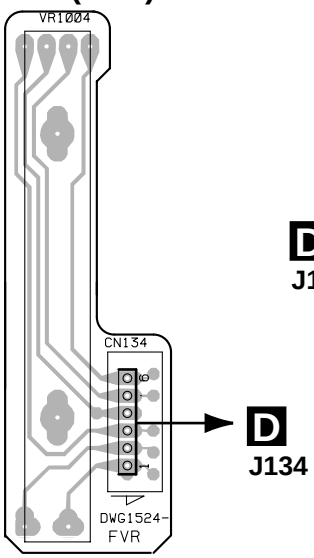
L
C.F ASSY



I
FADER VR (CH3) ASSY



J
FADER VR (CH4) ASSY



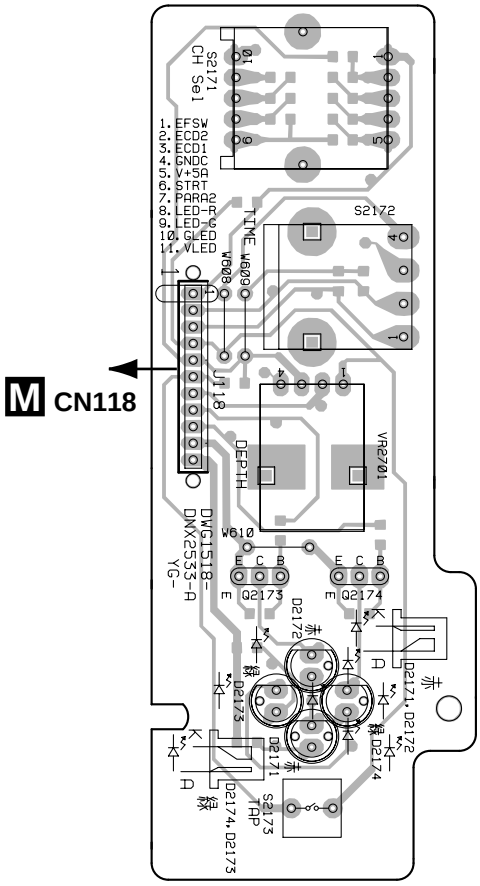
4.5 EFFCT, DIGITAL SW ASSY

SIDE A

SIDE B

N

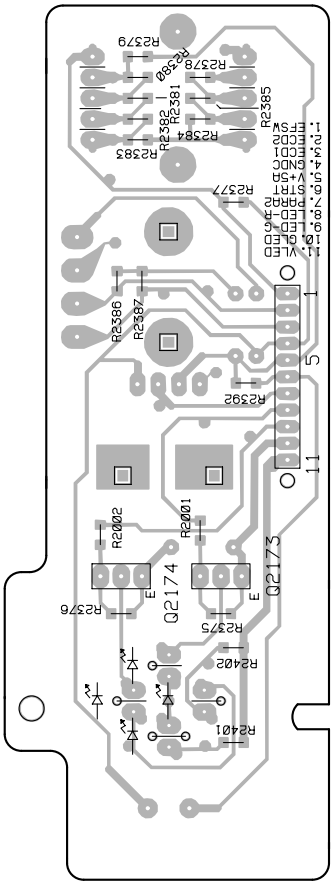
EFFECT ASSY



M CN118

N

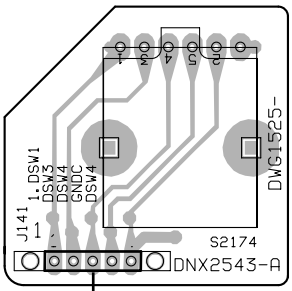
EFFECT ASSY



O

SIDE A

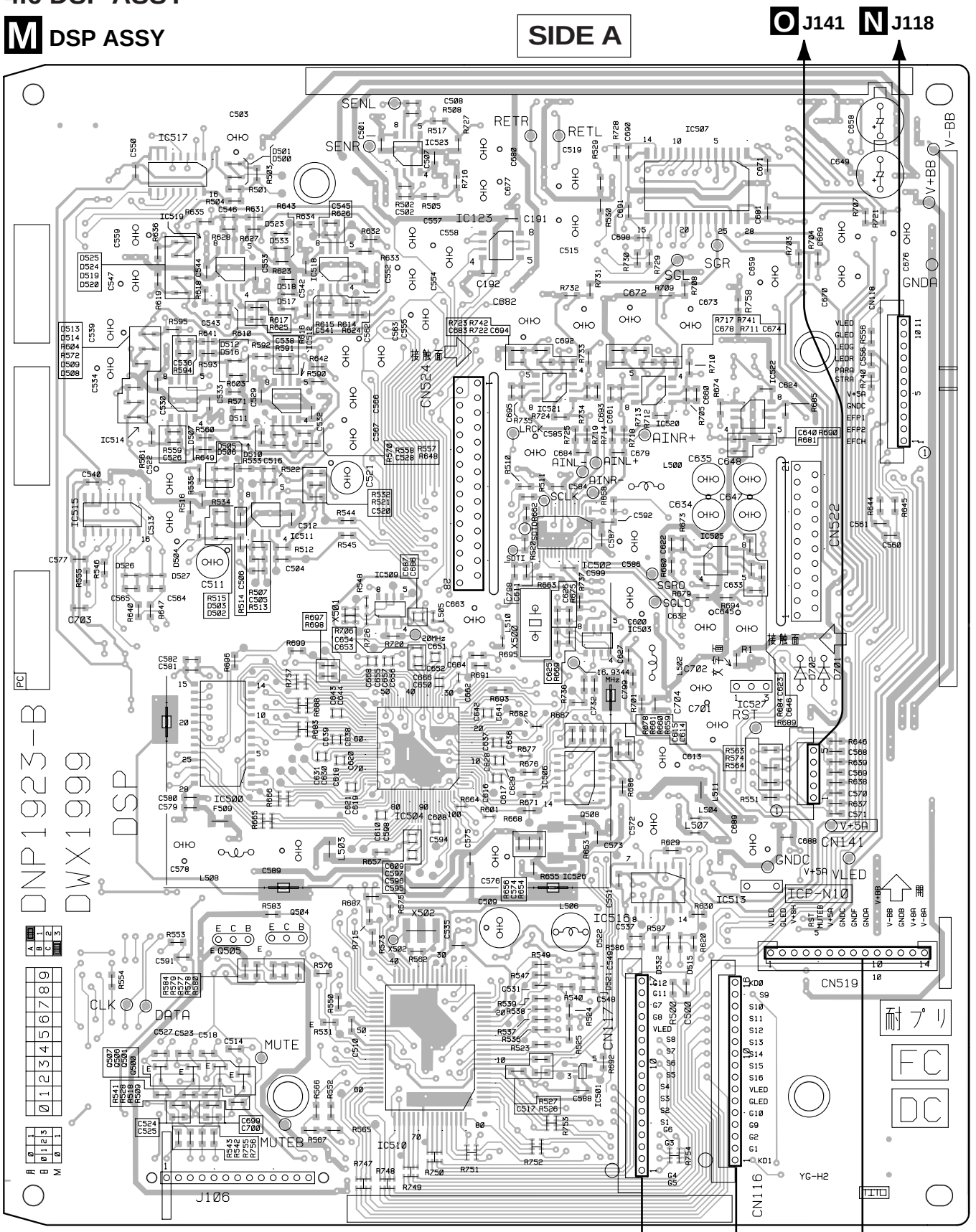
DIGITAL SW ASSY



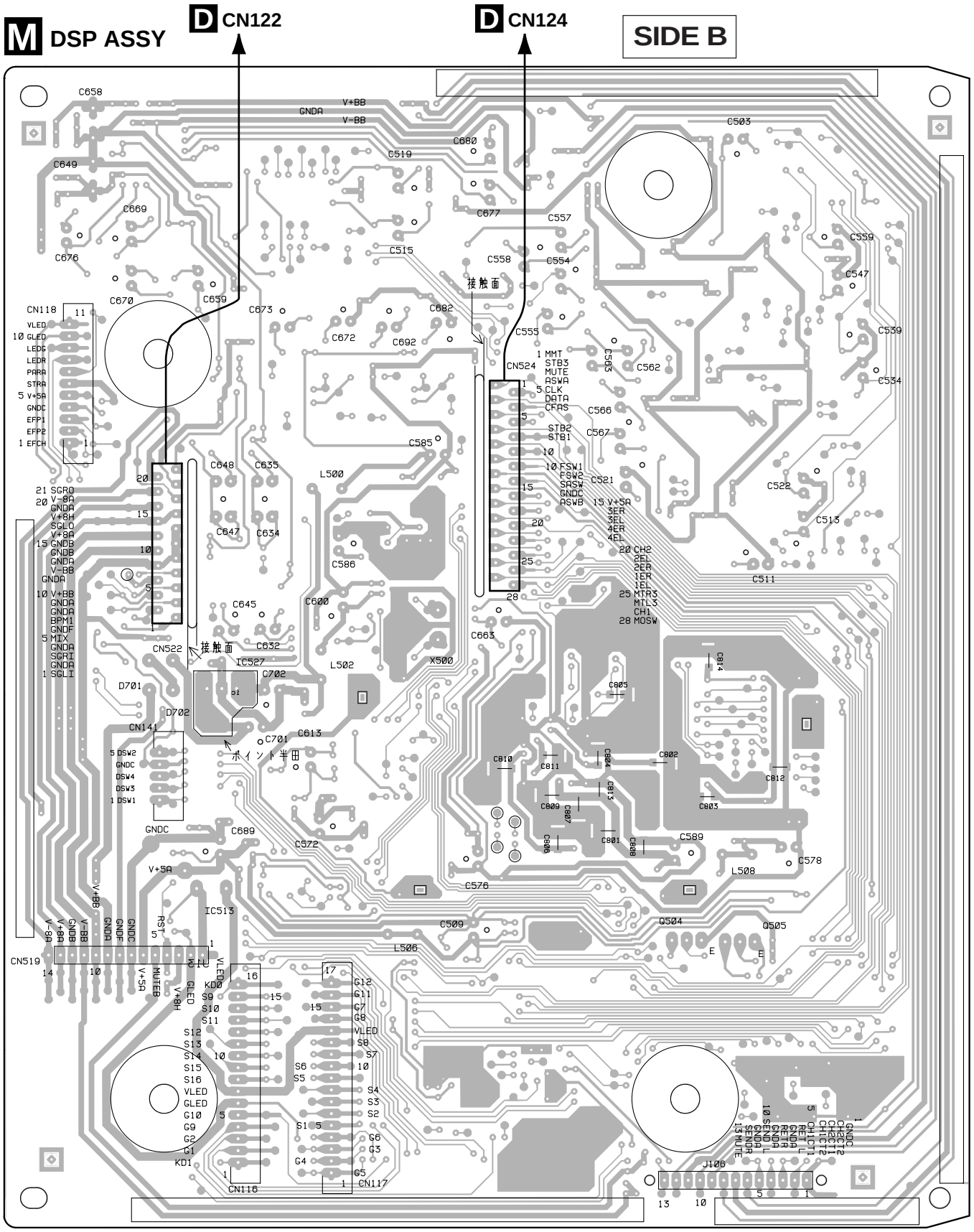
M CN141

4.6 DSP ASSY

M DSP ASSY



M DSP ASSY

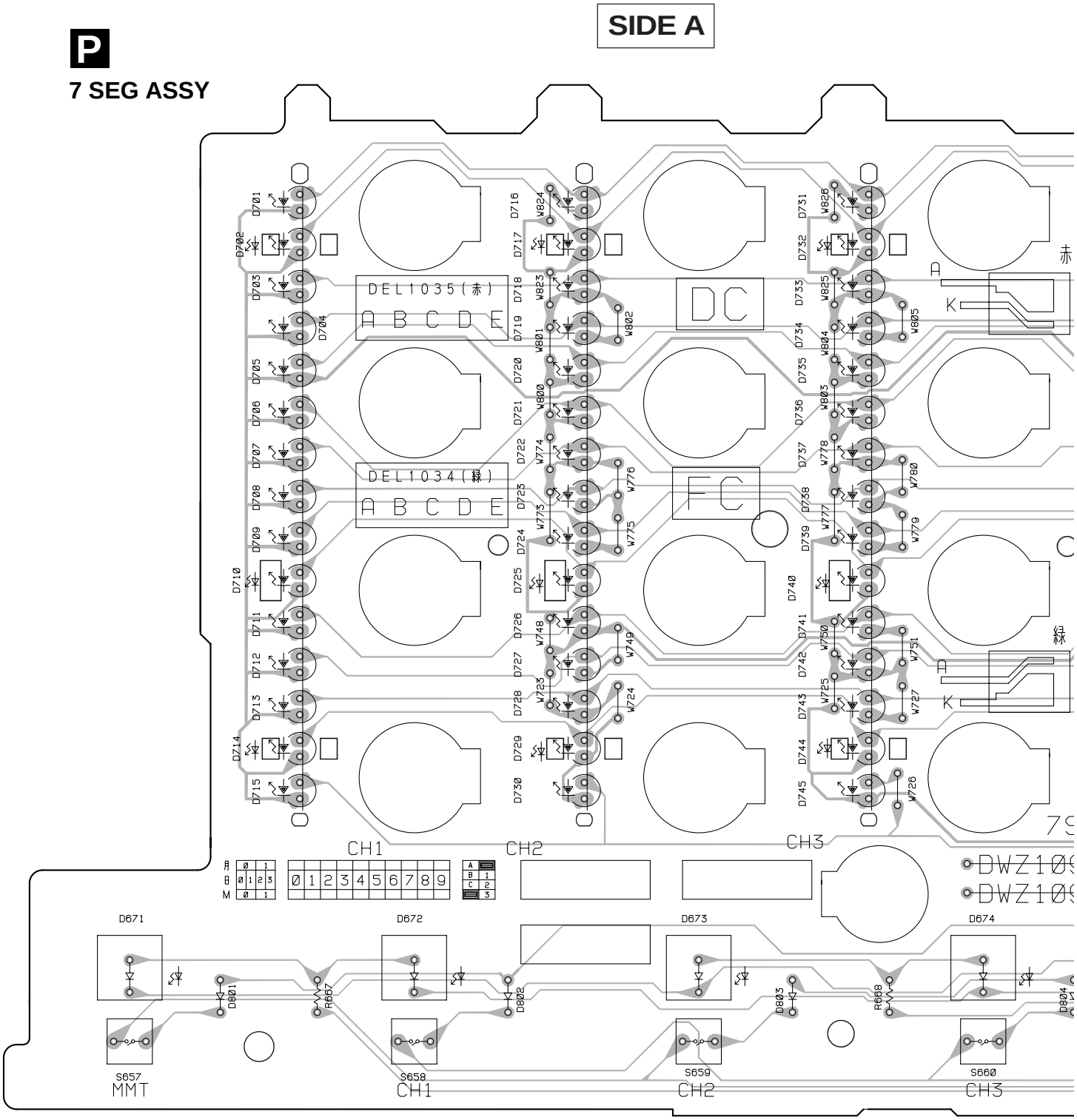


(DNP1923-B)

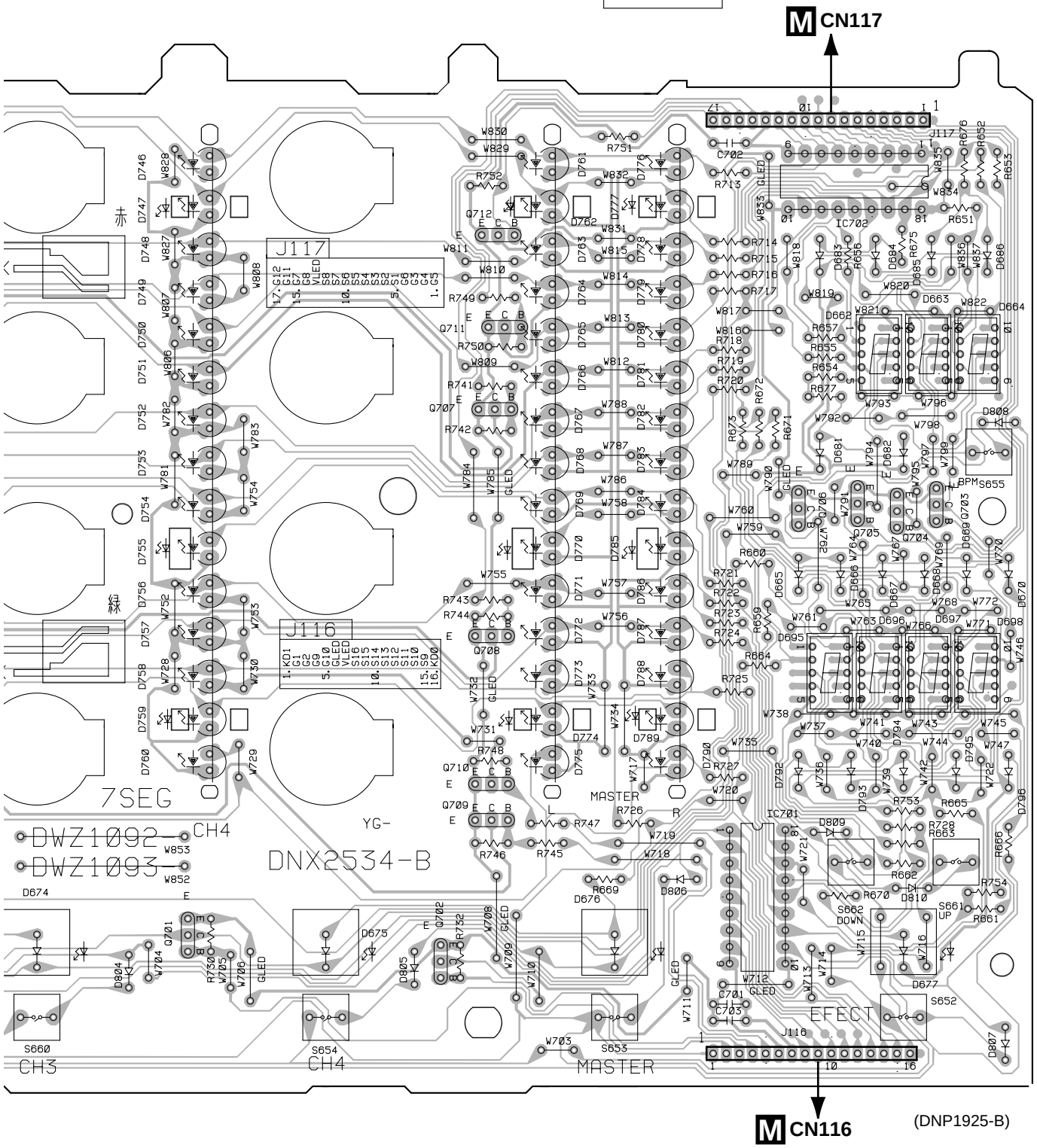
4.7 7SEG ASSY

P

7 SEG ASSY

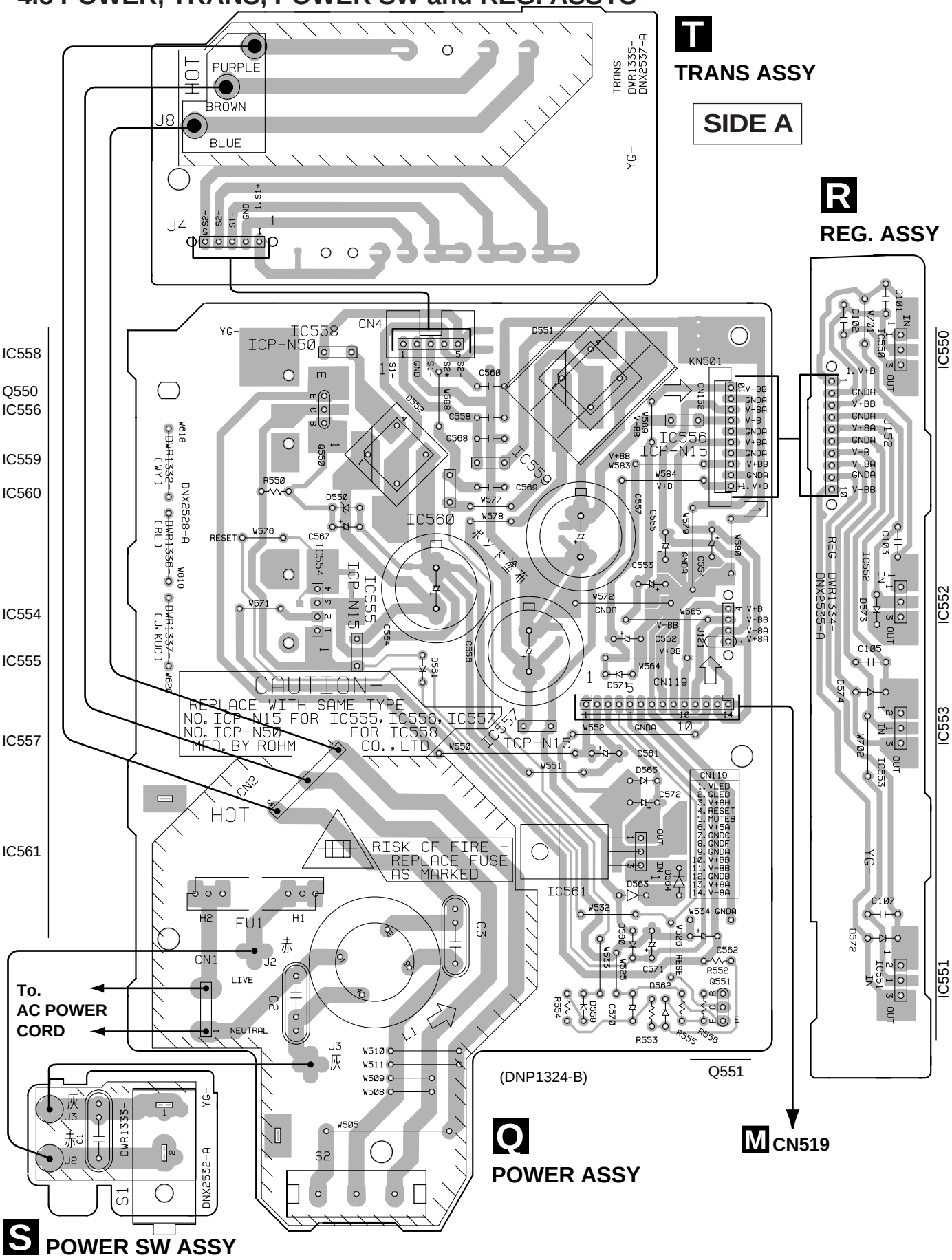


SIDE A



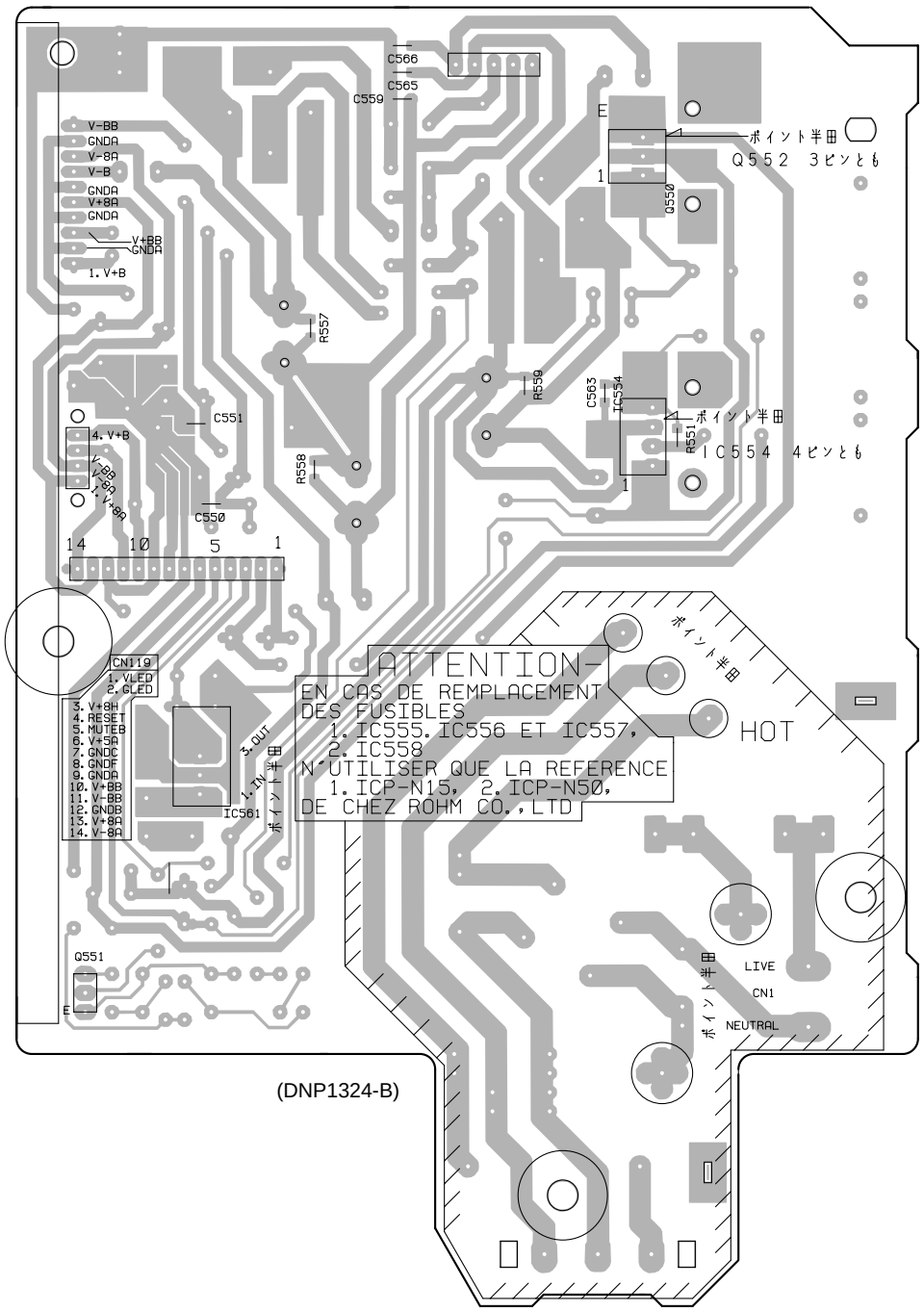
(DNP1925-B)

4.8 POWER, TRANS, POWER SW and REG. ASSYS



SIDE B

POWER ASSY



(DNP1324-B)

5. PCB PARTS LIST

NOTES :
- *Parts marked by " NSP " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

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

560 Ω → 56 × 10 [1] → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10 [3] → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

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

5.62k Ω → 562 × 10 [1] → 5621 ..... RN1/4PC 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	DWM2109	DWM2109	DWM2109	
	├MIC JACK ASSY	DWZ1087	DWZ1087	DWZ1087	
	├HP JACK ASSY	DWZ1088	DWZ1088	DWZ1088	
	└VR ASSY	DWG1517	DWG1517	DWG1517	
NSP	SUB ASSY	DWX2069	DWX2069	DWX2001	
	├C.F ASSY	DWG1519	DWG1519	DWG1519	
	├FADER VR (CH1) ASSY	DWG1521	DWG1521	DWG1521	
	├FADER VR (CH2) ASSY	DWG1522	DWG1522	DWG1522	
	├FADER VR (CH3) ASSY	DWG1523	DWG1523	DWG1523	
	├FADER VR (CH4) ASSY	DWG1524	DWG1524	DWG1524	
	├FADER VR (MAIN) ASSY	DWG1520	DWG1520	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	
⚠	S2 (Voltage Selector)	Not used	DSA1026	Not used	

Mark	No.	Description	Part No.

5.2 PARTS LIST FOR DJM-600/KUC

D VR ASSY

SEMICONDUCTORS

IC115, IC116	BU4053BCF
IC107, IC108	M5283P
IC301	NJM2068M
IC310, IC312	NJM4556AD
IC106, IC112, IC113, IC121, IC122	NJM4558MD
IC124, IC305	NJM4558MD
IC109, IC110, IC200, IC202–IC205	NJM4580ED
IC302–IC304, IC306, IC307, IC309	NJM4580ED
IC401–IC420	NJM4580ED
IC201	TC4S66F
IC101, IC102, IC105	TC9162AF
IC111, IC311	TC9163AF
IC103, IC104	TC9164AF
IC308	TC9215AF
Q303, Q304	2SC2878
Q103, Q104	2SC3326
Q801–Q808	2SD2114K
Q102	DTA124EK
Q101	DTC124EK
D301–D304	1SS355

SWITCHES

S204, S205	DSG1053
S201–S203, S206, S301	DSH1036
S101	DSH1050
S401–S404	DSK1010

CAPACITORS

C104, C105, C107, C108	CCSQCH101J50
C132, C133, C135, C136	CCSQCH101J50
C142, C143, C172, C173	CCSQCH101J50
C386, C387	CCSQCH101J50
C103, C106, C131, C134, C141	CCSQCH102J50
C171, C385	CCSQCH102J50
C373, C374	CCSQCH270J50
C311	CCSQCH470J50
C163, C164, C174, C185	CCSQSL101J50
C367, C368	CCSQSL101J50
C113–C116, C1401, C1402	CCSQSL270J50
C147, C148, C153, C154	CCSQSL270J50
C205, C206, C213, C214	CCSQSL270J50
C251, C252, C304, C307	CCSQSL270J50
C331, C332, C359–C362	CCSQSL270J50
C401, C402, C415, C416	CCSQSL270J50
C429, C430, C443, C444	CCSQSL270J50
C457, C458, C471, C472	CCSQSL270J50
C485, C486	CCSQSL270J50
C405, C406, C433, C434	CCSQSL271J50
C461, C462, C489, C490	CCSQSL271J50
C175–C178, C211, C212	CEAL100M16
C305, C306, C308, C341–C350, C379, C380	CEAL100M16
C411, C412, C439, C440	CEAL100M16
C467, C468, C495, C496	CEAL100M16
C314, C369, C370	CEAL330M25
C1403, C1404, C417, C418	CEAL470M16
C445, C446, C473, C474	CEAL470M16
C243–C246	CEALNPR33M50
C125–C128, C149, C150	CEJA100M16
C155, C156, C181, C182	CEJA100M16
C377, C378	CEJA101M16
C363–C366	CEJA330M25
C407, C408, C435, C436	CEWASR47M50
C463, C464, C491, C492	CEWASR47M50
C312, C313, C316	CFTNA104J50-TD
C403, C404, C431, C432	CFTNA473J50-TD
C459, C460, C487, C488	CFTNA473J50-TD
C413, C414, C441, C442	CFTNA563J50-TD
C469, C470, C497, C498	CFTNA563J50-TD
C101, C102, C109–C112	CKSQYB103K50
C123, C124, C129, C130	CKSQYB103K50
C137–C140, C1405–C1414	CKSQYB103K50
C145, C146, C151, C152	CKSQYB103K50
C157, C158, C161, C162	CKSQYB103K50
C165, C166, C183, C184	CKSQYB103K50
C187–C196, C201–C204	CKSQYB103K50
C207–C210, C215, C216	CKSQYB103K50
C231, C232, C241, C242	CKSQYB103K50
C309, C310, C317–C320	CKSQYB103K50
C323, C324, C329, C330	CKSQYB103K50
C351–C358, C371, C372	CKSQYB103K50
C375, C376, C397, C398	CKSQYB103K50
C419–C428, C447–C456	CKSQYB103K50
C475–C484	CKSQYB103K50
C119, C120, C144, C221–C223	CKSQYB104K25
C381	CKSQYB104K25
C801–C808	CKSQYB224K16
C197, C198	CKSQYB273K50
C315 (4700P/50V)	DCE1008
C409, C410, C437, C438 (5600P/50V)	DCE1009
C465, C466, C493, C494 (5600P/50V)	DCE1009
C321 (6800P/50V)	DCE1010

RESISTORS

R379, R380, R953, R954 (43Ω)	DCN1137
R211, R212, R215, R216, R307	RN1/10SE1001D
R321, R322, R365–R368	RN1/10SE1001D
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.
	R137, R138		RN1/10SE1202D
	R411, R412, R435, R436		RN1/10SE1300D
	R461, R462, R485, R486		RN1/10SE1300D
	R139, R140		RN1/10SE1301D
	R353, R354, R357, R358		RN1/10SE1501D
	R145, R146, R213, R214		RN1/10SE1502D
	R219, R220, R251, R252		RN1/10SE1502D
	R277, R278, R301, R302		RN1/10SE1502D
	R403, R404, R427, R428		RN1/10SE1502D
	R453, R454, R477, R478		RN1/10SE1502D
	R407, R408, R415, R416		RN1/10SE1800D
	R431, R432, R439, R440		RN1/10SE1800D
	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
	R159–R162, R203–R210		RN1/10SE2202D
	R217, R218, R225–R228		RN1/10SE2202D
	R275, R276, R325–R340		RN1/10SE2202D
	R347–R350, R359–R364		RN1/10SE2202D
	R309		RN1/10SE2402D
	R381, R382		RN1/10SE2701D
	R129–R132, R801–R808		RN1/10SE2702D
	R391, R392		RN1/10SE3001D
	R317, R341, R345, R346		RN1/10SE3002D
	R811–R818		RN1/10SE3002D
	R303, R304, R312, R315		RN1/10SE3301D
	R375, R376		RN1/10SE3602D
	R257, R258		RN1/10SE3902D
	R401, R402, R425, R426		RN1/10SE4301D
	R451, R452, R475, R476		RN1/10SE4301D
	R253, R254		RN1/10SE4302D
	R316, R319		RN1/10SE4701D
	R417, R418, R441, R442		RN1/10SE4702D
	R467, R468, R491, R492		RN1/10SE4702D
	R377, R378, R405, R406		RN1/10SE5101D
	R419, R420, R429, R430		RN1/10SE5101D
	R443, R444, R455, R456		RN1/10SE5101D
	R469, R470, R479, R480		RN1/10SE5101D
	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
	R351, R352, R355, R356		RN1/10SE7501D
	R413, R414, R437, R438		RN1/10SE7502D
	R463, R464, R487, R488		RN1/10SE7502D
	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

Mark	No.	Description	Part No.
OTHERS			
		3P CABLE HOLDER	51048-0300
		6P CABLE HOLDER	51048-0600
		9P CABLE HOLDER	51048-0900
		10P CABLE HOLDER	51048-1000
	CN102	CONNECTOR 19P	52492-1920
	CN122	CONNECTOR 21P	52492-2120
	CN101	CONNECTOR 23P	52492-2320
	CN124	CONNECTOR 28P	52492-2820
	J133–J135	6P JUMPER WIRE	D20PYY0605E
	J132	9P JUMPER WIRE	D20PYY0905E
	J131	10P JUMPER WIRE	D20PYY1005E
	J110	CONNECTOR ASSY	DKP3509

N EFFECT ASSY

SEMICONDUCTORS

Q2173, Q2174		2SC1740S
D2171, D2172		BR3889S
D2173, D2174		PG3889S

SWITCHES

S2172		ASX7011
S2173		DSG1063
S2171		DSG1068

RESISTORS

VR2701	(10kΩ-B)	DCS1051
All Resistors		RS1/10S&&& J

OTHERS

	11P CABLE HOLDER	51048-1100
J118	11P JUMPER WIRE	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.
H	**FADER VR (CH2) ASSY**		
	SEMICONDUCTORS		
	D1002		GP1S94
	RESISTORS		
	VR1002	(10kΩ-B)	DCV1010
	OTHERS		
	CN132	3PJUMPER CONNECTOR	52151-0910
I	**FADER VR (CH3) ASSY**		
	RESISTORS		
	VR1003	(10kΩ-B)	DCV1010
	OTHERS		
	CN133	6PJUMPER CONNECTOR	52151-0610
J	**FADER VR (CH4) ASSY**		
	RESISTORS		
	VR1004	(10kΩ-B)	DCV1010
	OTHERS		
	CN134	6PJUMPER CONNECTOR	52151-0610
O	**DIGITAL SW ASSY**		
	SWITCHES AND RELAYS		
	S2174	DSG1067	
	OTHERS		
		5P CABLE HOLDER	51048-0500
	J141	5P JUMPER WIRE	D20PYY0520E
S	**POWER SW ASSY**		
	SWITCHES AND RELAYS		
⚠	S1	DSA1028	
	CAPACITORS		
⚠	C1	(10000P/AC250V)	ACG7033
R	**REG. ASSY**		
	SEMICONDUCTORS		
⚠	IC550		NJM7815FA
⚠	IC552		NJM78M08FA
⚠	IC551		NJM7915FA
⚠	IC553		NJM79M08FA
	D573, D574		11EQS06
	OTHERS		
		10P CABLE HOLDER	51048-1000
	J152	10P JUMPER WIRE	D20PYY1020E
		HEAT SINK VR	VNH1049
T	**TRANS ASSY**		
	OTHERS		
		5P CABLE HOLDER	51052-0500
⚠	J8	CONNECTOR ASSEMBLY	DKP3507
	J4	PARALLEL CORD	DXUY0515E

Mark	No.	Description	Part No.
Q	**POWER ASSY**		
	SEMICONDUCTORS		
⚠	IC555–IC557	(0.6A)	ICP-N15
⚠	IC558	(2A)	ICP-N50
⚠	IC561		NJM78M08FA
⚠	IC554		PQ05RR12
	Q551		2SC2458
⚠	Q550		2SD2395
⚠	D563, D564		11E2
⚠	D565, D571		11EQS06
	D562		1SS254
⚠	D550		MTZJ6.2B
⚠	D552		S2VB20
⚠	D551		S2VB20-F1
⚠	D559–D561		S5688G
	COILS AND FILTERS		
⚠	L1		VTL-004
	CAPACITORS		
⚠	C2, C3	(10000P/AC250V)	ACG7033
	C570		CEANP4R7M35
	C572		CEAT330M16
	C562		CEHAT101M10
	C554, C555		CEHAT101M16
	C564		CEHAT103M16
	C567		CEHAT221M16
	C561		CEHAT330M25
	C552, C553		CEHAT470M25
	C571		CEHAT4R7M50
	C558, C560, C568, C569		CKCYF103Z50
	C550, C551, C563		CKSQYB103K50
	C559, C565, C566		CKSQYF103Z50
	C556, C557	(3300μF/35V)	DCH1132
	RESISTORS		
	R551		RS1/10S103J
	R557–R559		RS1/10S223J
	Other Resistors		RD1/4PU□□□ J
	OTHERS		
		4P CABLE HOLDER	51048-0400
	CN152	10PJUMPER CONNECTOR	52147-1010
⚠	CN2	3P CONNECTOR	B3P5-VH
	J121	JUMPER WIRE	D20PYY0420E
		HEAT SINK	DNG1066
	CN4	5P CONNECTOR	KPC5
		HEAT SINK	REF1003
⚠	CN1	AC CODE SOCKET	RKP1751
	H1, H2	FUSE HOLDER	RKR1003
		PCB BINDER	VEF1040
	KN501	PCB BINDER	VNF1084

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

Mark	No.	Description	Part No.
OTHERS			
		13P CABLE HOLDER	51048-1300
	CN141	5P JUMPER CONNECTOR	52147-0510
	CN118	11PJUMPER CONNECTOR	52147-1110
	CN116	16PJUMPER CONNECTOR	52147-1610
	CN117	17PJUMPER CONNECTOR	52147-1710
	CN522	CONNECTOR 21P	52492-2120
	CN524	CONNECTOR 28P	52492-2820
	J106	13P WIRE	D20PYY1340E
	X502	4.19MHz	DSS1105
	X501	20MHz	DSS1110
	X500	16.9344MHz	PSS1008
K MIC JACK ASSY			
CAPACITORS			
	C301	CKSQYB103K50	
OTHERS			
		3P CABLE HOLDER	51048-0300
	J120	JUMPER WIRE	D20PYY0310E
	CN301	CONNECTOR	DKN1136
F HP JACK ASSY			
CAPACITORS			
	C382	CKCYF103Z50	
OTHERS			
		3P CABLE HOLDER	51048-0300
	J109	JUMPER WIRE	D20PYY0310E
	JA302	PHONE JACK	DKN1179
A TERMINAL ASSY			
SEMICONDUCTORS			
	IC801–IC803		NJM2068M
	IC804	NJM4580D	
	IC805–IC809		NJM4580ED
	IC810	TC9215AF	
	Q801–Q808		2SC3326
	D801–D804		1SS355
COILS AND FILTERS			
⚠	L801–L804		VTL1105
CAPACITORS			
	C851–C882, C891–C894		CCSQSL101J50
	C994–C997		CEANPR33M50
	C803, C804, C809, C810		CEAT100M50
	C814, C815, C820, C821		CEAT100M50
	C825, C826, C831, C832		CEAT100M50
	C883–C890, C895, C896		CEAT100M50
	C915, C916, C921–C924, C933		CEAT100M50
	C935–C942, C944		CEAT100M50
	C801, C802, C812, C813		CEAT220M25
	C823, C824		CEAT220M25
	C903, C904		CEJA100M16
	C1901–C1903, C822, C898, C906		CKCYF103Z50
	C925, C927, C929, C931		CKCYF103Z50
	C837, C840		CKCYF473Z50
	C833, C835, C836, C838, C839		CKSQYB103K50
	C841, C842, C850, C901, C902		CKSQYB103K50
	C905, C907, C909, C911		CKSQYB103K50
	C913, C914, C917–C920		CKSQYB103K50
	C990–C993		CKSQYB103K50
	C843–C846		CQMA152J50
	C805, C806, C816, C817		CQMA222J50
	C827, C828		CQMA222J50
	C807, C808, C818, C819		CQMA681J50
	C829, C830		CQMA681J50
RESISTORS			
	R873		RD1/4PU102J
	R821, R822, R833, R834		RD1/4PU332J
	R845, R846		RD1/4PU332J
	R867–R870, R877, R878		RN1/10SE1000D
	R880–R883		RN1/10SE1000D
	R819, R820, R831, R832		RN1/10SE1001D
	R843, R844		RN1/10SE1001D
	R827, R828, R839, R840		RN1/10SE1203D
	R851, R852		RN1/10SE1203D
	R801–R804, R809, R810		RN1/10SE1302D
	R813, R814, R890, R891		RN1/10SE1302D
	R805–R808, R811, R812		RN1/10SE1502D
	R815, R816, R892, R893		RN1/10SE1502D
	R912, R913		RN1/10SE1502D
	R857–R860, R865, R866		RN1/10SE4300D
	R907, R908		RN1/10SE4300D
	R871, R872		RN1/10SE4302D
	R1801, R1802, R1807, R1808		RN1/10SK7503D
	R1813, R1814, R825, R826		RN1/10SK7503D
	R837, R838, R849, R850		RN1/10SK7503D
	VR801	(10kΩ)	DCS1056
	Other Resistors		RS1/10S□□□ J
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	
		6P CABLE HOLDER	51048-0600
	J108	6P JUMPER WIRE	D20PYY0610E
	JA231, JA232	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 o 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 → ...

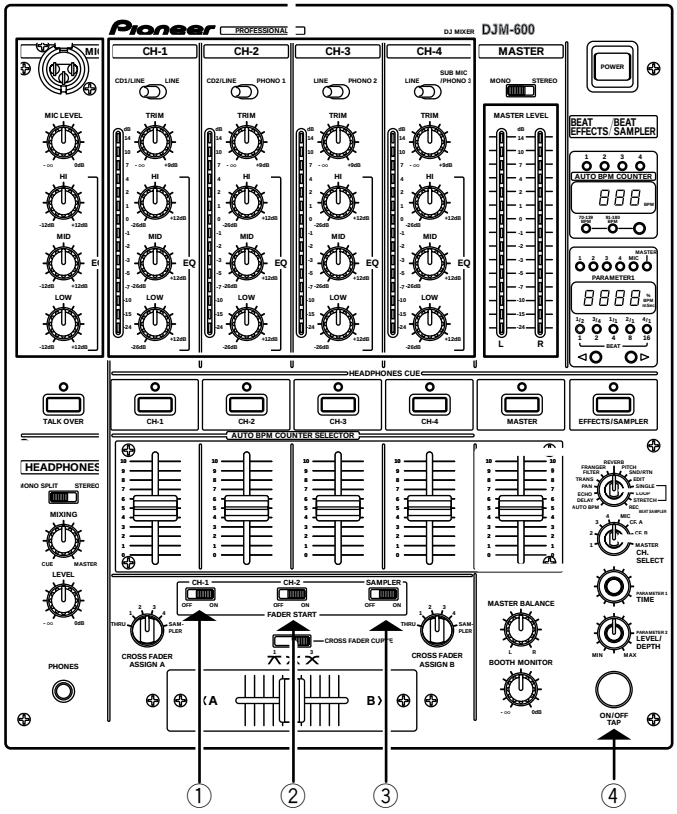
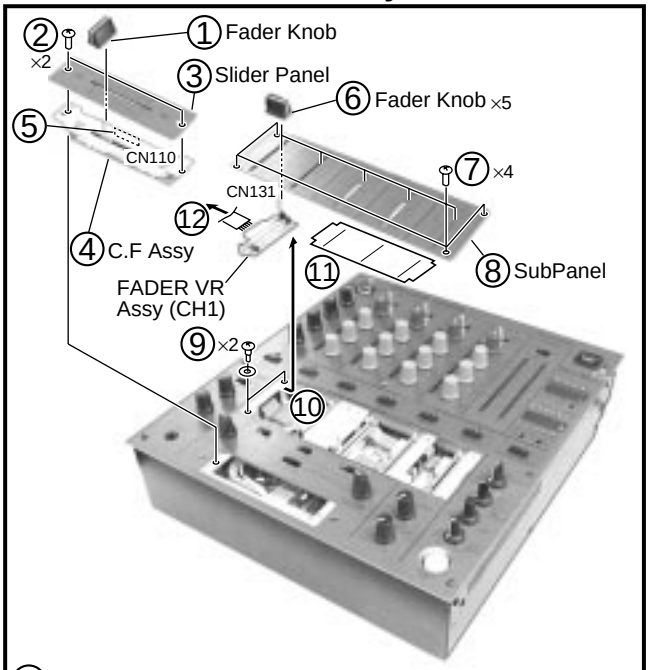


Fig.1

7.1.2 DISASSEMBLY

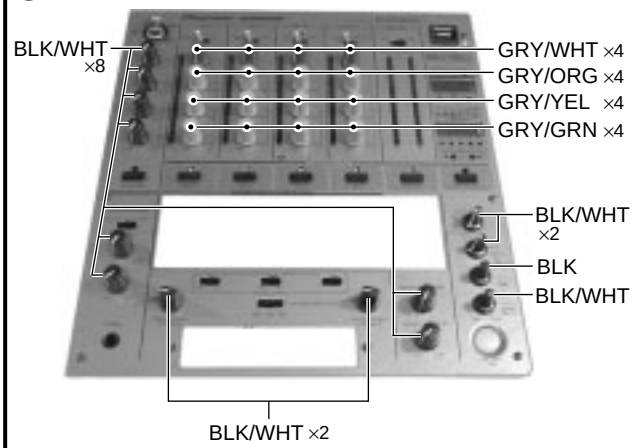
■CF and FADER VR Assys

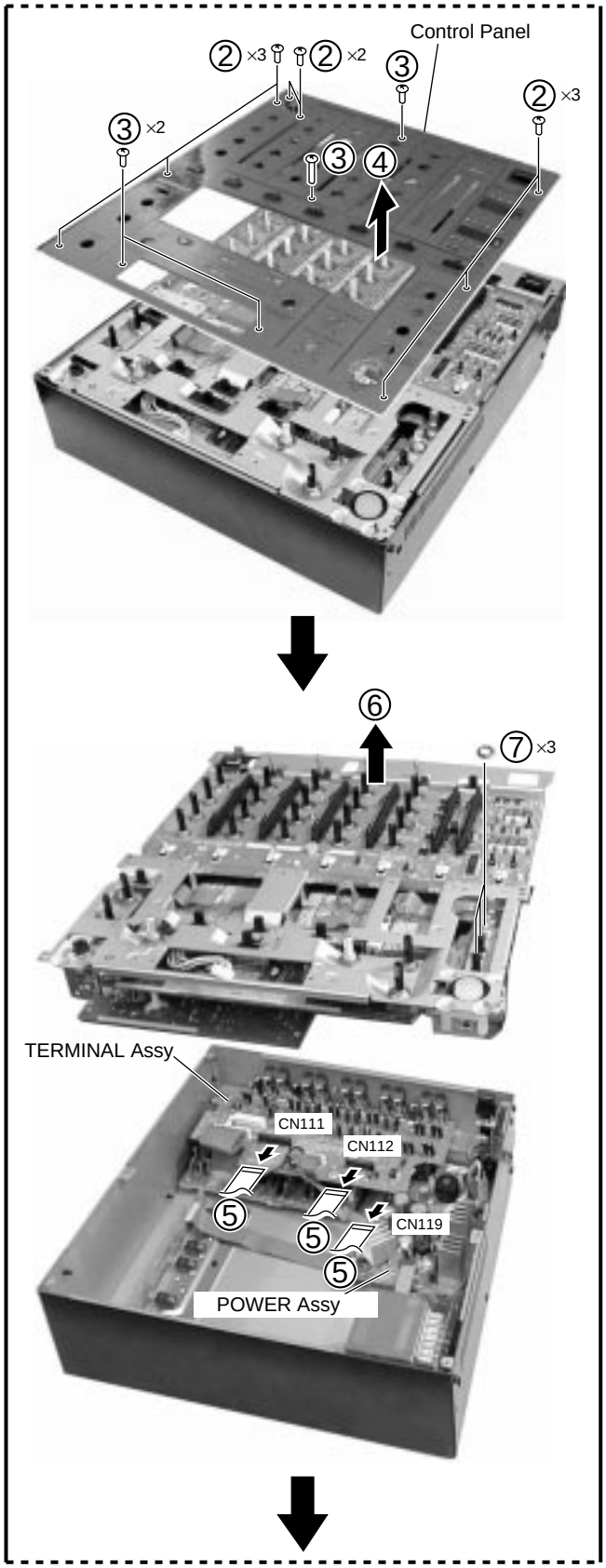


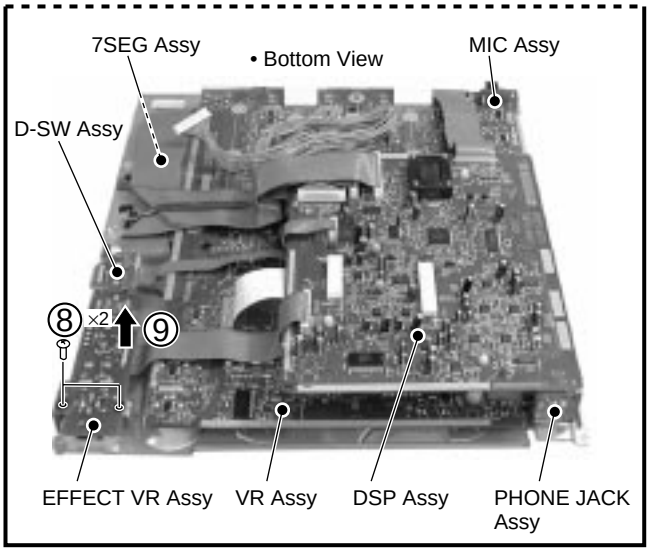
⑬ Remove other FADER VR Assys (CH2 to CH4 and MASTER) as same as steps ⑨ to ⑪.

■Control Panel Section and EFFECT VR Assy

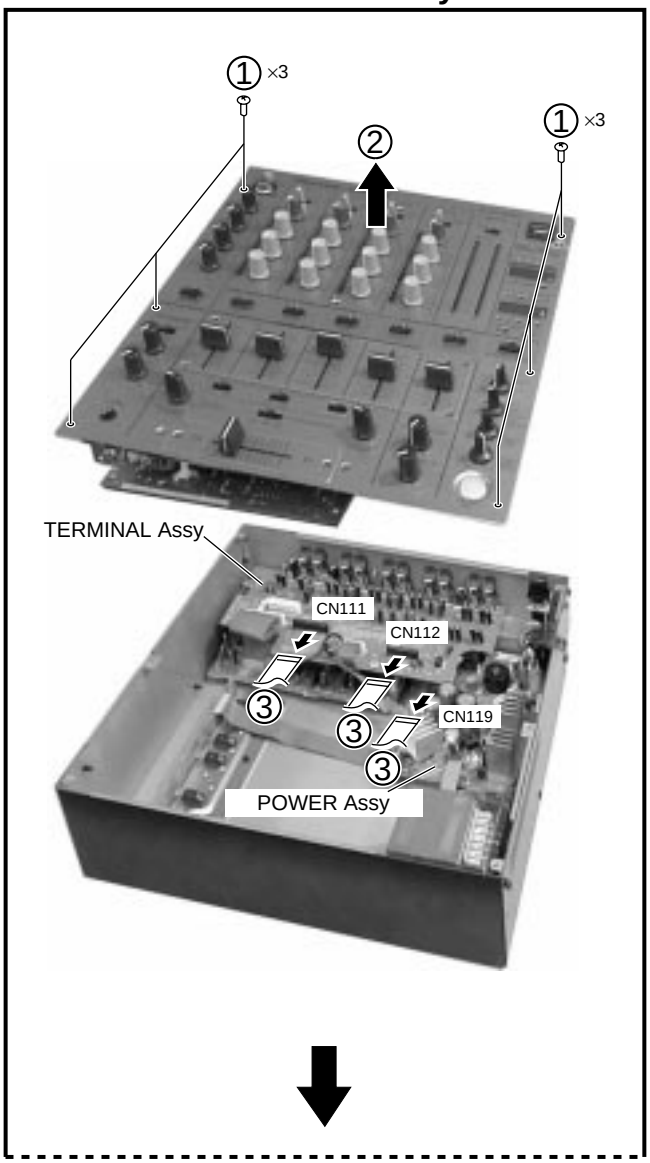
① Remove all knobs on the Control Panel.

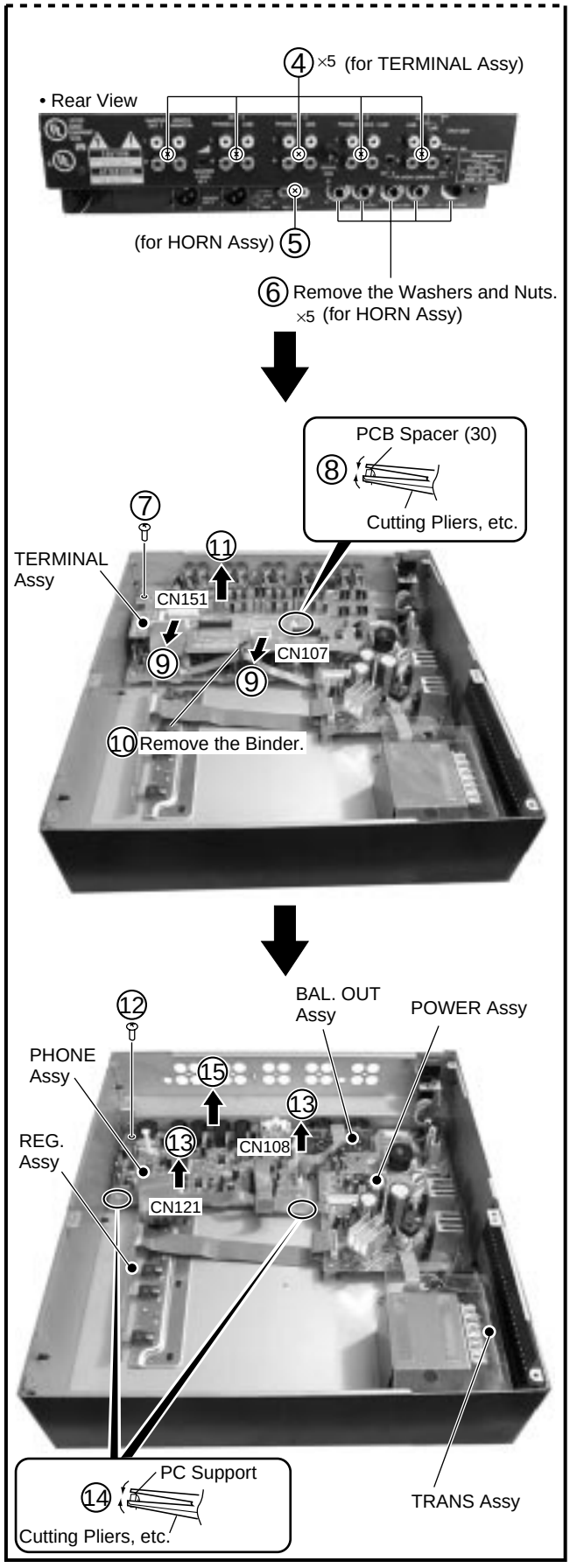




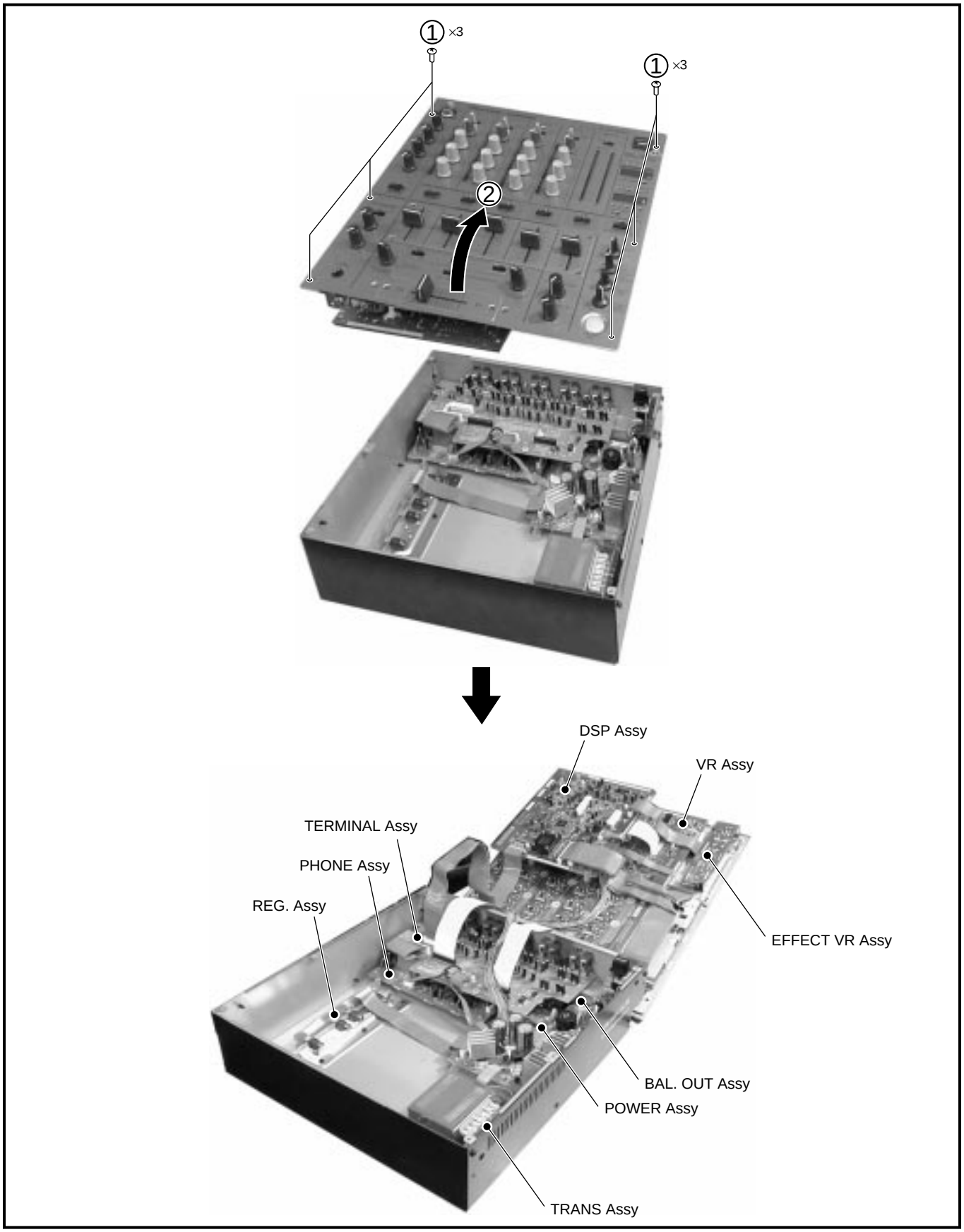


■TERMINAL and HORN Assys





■Styling of Diagnosis



7.2 PARTS

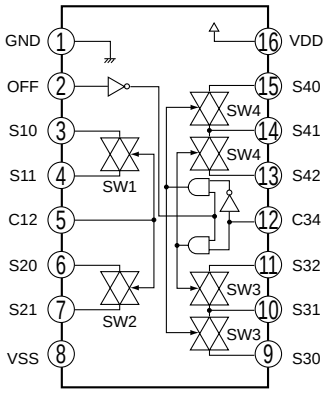
7.2.1 IC

• 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



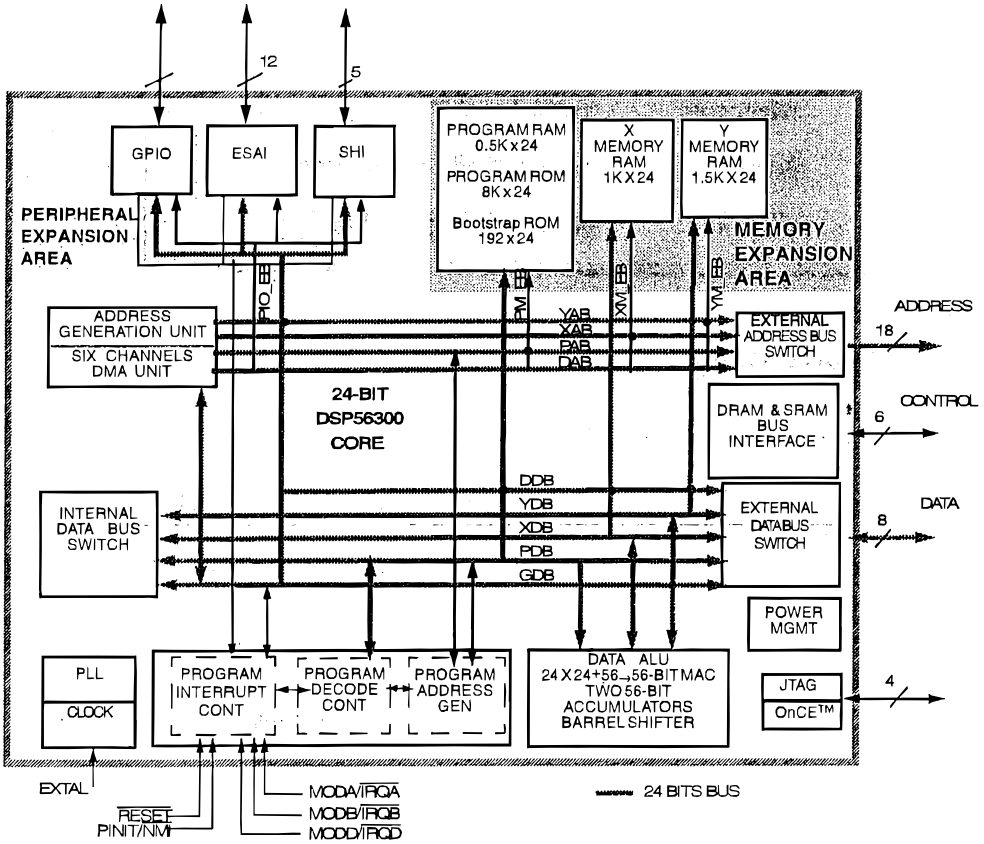
● Pin Function

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	Input /Output terminal (SW3)
10	S31	
11	S32	
12	C34	Control terminal (SW3, SW4)
13	S42	Input /Output terminal (SW4)
14	S41	
15	S40	
16	VDD	+8V

■ XCB56364 (DSP ASSY : IC504)

• 24-Bit Audio Digital Signal Processor

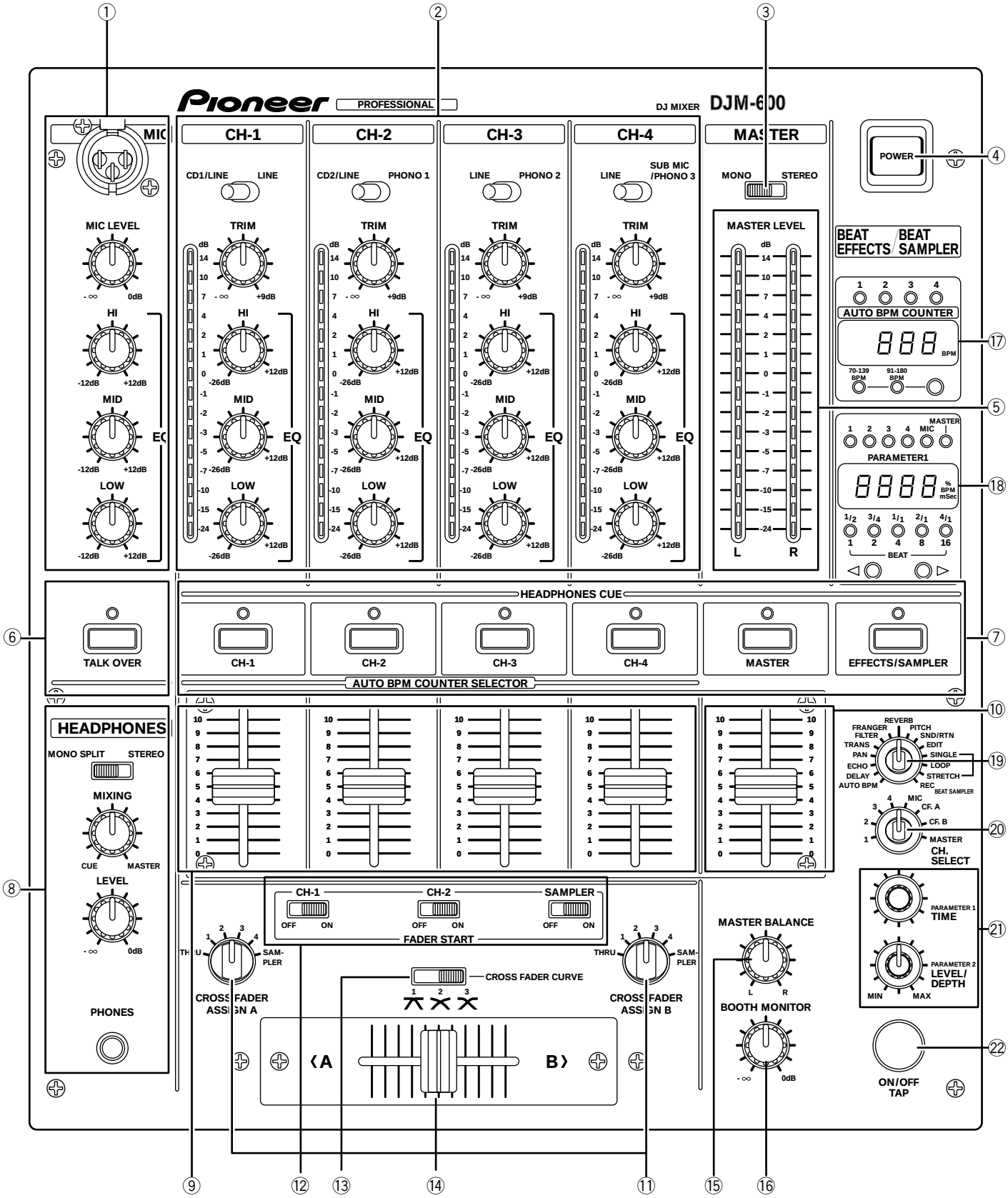
● Block Diagram



8. PANEL FACILTIES 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: –∞ 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 –∞).

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 (⑲), 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 (⑮).

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).

THRU: 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 (⑲).

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 (⑮).

⑰ **BPM Display (see page 14)**

When AUTO BPM has been selected using the effect/sampler selector switch (⑲), 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 (⑳) will be displayed.

⑱ **Effect Parameter and BPM Display**

1 to 4, MIC, and MASTER:

Displays the source selected with the effect/sampler channel selector switch (⑳).

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 (⑪) will light.

PARAMETER (Parameter/BPM Counter):

The display will differ with the setting of the effect/sampler selector switch (⑲).

- 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 (㉑) will be displayed.

BEAT (Effect Synchronous Display/Beat Display):

The display will differ with the setting of the effect/sampler selector switch (⑲).

- 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 (㉑) will change in keeping with the BPM for source selected with the effect/sampler channel selector switch (⑳).

The set value will change with the effect/sampler selector switch (⑲) 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).

⑲ **Effect/Sampler Selector Switch**

Used to select different effects.

⑳ **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 (⑲).

- 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

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.