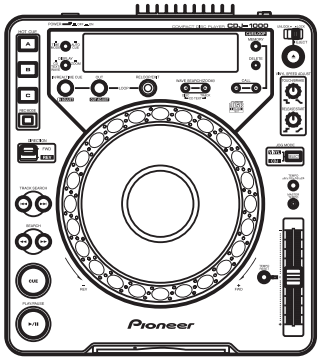
Service Manual



ORDER NO.
RRV2468

COMPACT DISC PLAYER

CDJ-1000

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

Type	Model	Power Requirement	Remarks
	CDJ-1000		
KUC	O	AC120V	
TL	O	AC110- 240V	
WY	O	AC220- 240V	

CONTENTS

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.

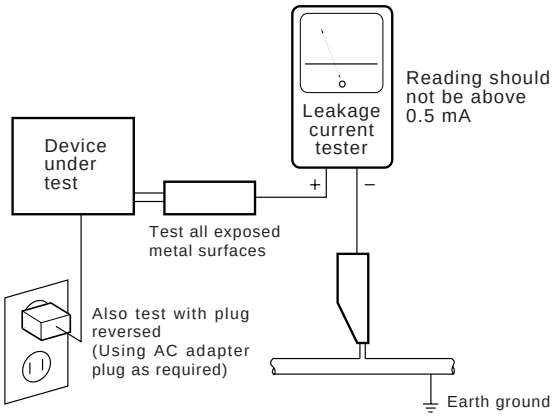
(FOR USA MODEL ONLY)

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 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



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.

IMPORTANT

THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS

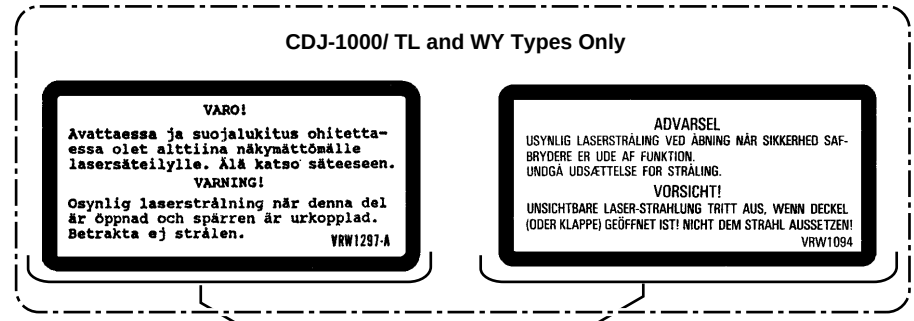
MAXIMUM OUTPUT POWER: 5 mW
WAVELENGTH: 780 – 785 nm

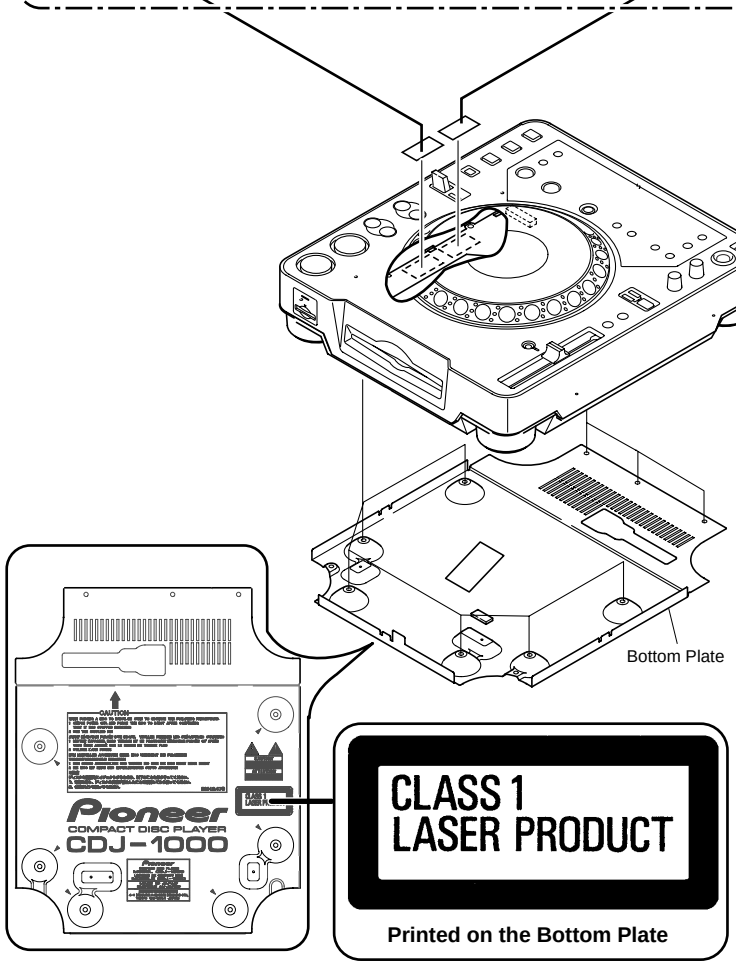
WARNING !

The AEL(accessible emission level) of the laser power output is less then **CLASS 1** but the laser component is capable of emitting radiation exceeding the limit for **CLASS 1.**
A specially instructed person should servicing operation of the apparatus.

LABEL CHECK (for CDJ-1000/ TL and WY types)

CDJ-1000/ TL and WY Types Only





Printed on the Bottom Plate

Additional Laser Caution

1. Laser Interlock Mechanism
   The position of the switch (S1) for detecting loading completion is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch is not in $\overline{\text{LPS1}}$ terminal side (when the mechanism is not clamped and $\overline{\text{LPS1}}$ signal is high level.) Thus, the interlock will no longer function if the switch is deliberately set to $\overline{\text{LPS1}}$ terminal side. (if $\overline{\text{LPS1}}$ signal is low level).
   In the test mode* the interlock mechanism will not function. Laser diode oscillation will continue, if pin 33 of CXA1782CQ (IC101) on the MOTHER BOARD ASSY is connected to GND, or pin 43 of IC701 ($\overline{\text{LDON}}$) is connected to low level (ON), or else the terminals of Q101 are shorted to each other (fault condition).

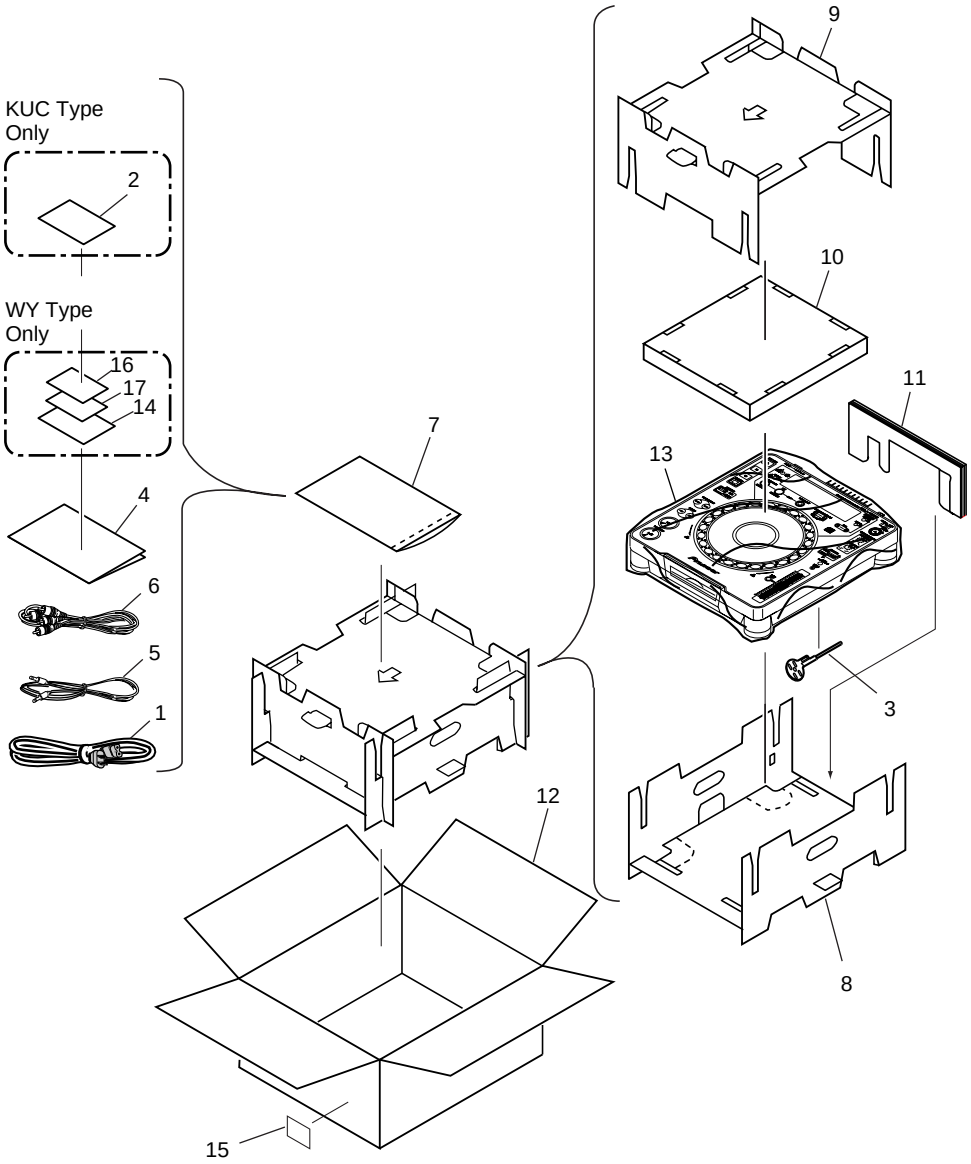
2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* : Refer to page 57.

2. EXPLODED VIEWS AND PARTS LIST

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

2.1 PACKING



(1) PACKING PARTS LIST

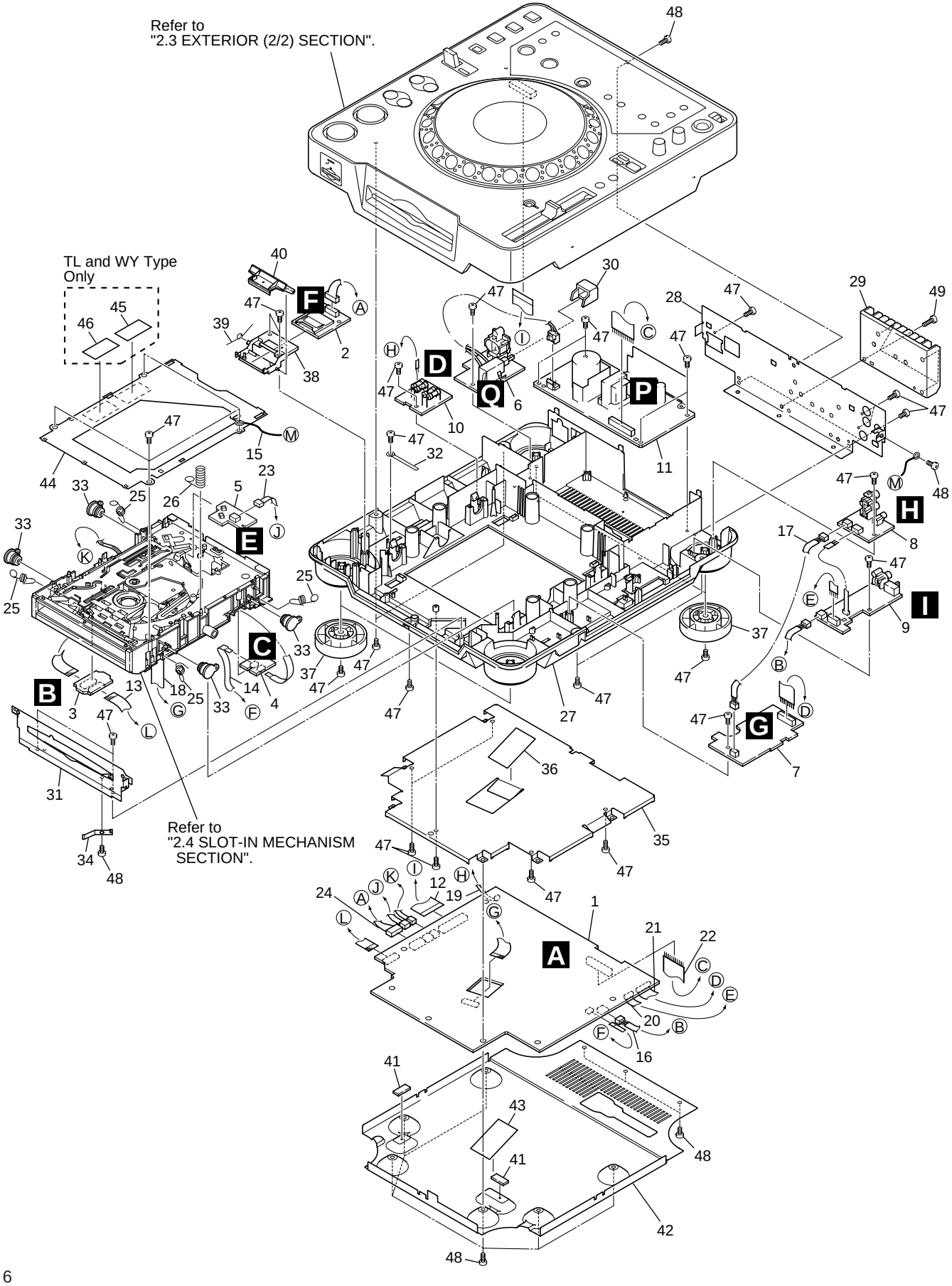
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
NSP	2	Warranty Card	See Contrast table (2)
	3	Forced Eject Pin	DEX1013
	4	Operating Instructions	See Contrast table (2)
	5	Control Cord (L= 1m)	PDE1247
	6	Audio Cable (L = 1.5m)	VDE1033
NSP	7	Polyethylene Bag (0.03 × 230 × 340)	Z21-038
	8	Pad (A)	DHA1518
	9	Pad (B)	DHA1519
	10	Pad (C)	DHA1523
	11	Pad (D)	DHA1524
	12	Packing Case	See Contrast table (2)
	13	Sheet	RHX1006
NSP	14	Mini Catalogue	See Contrast table (2)
NSP	15	Label	See Contrast table (2)
NSP	16	Pamphlet	See Contrast table (2)
NSP	17	MMC Catalog	See Contrast table (2)

(2) CONTRAST TABLE

CDJ-1000/KUC, TL and WY types are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			KUC Type	TL Type	WY Type	
⚠	1	Power Cord	ADG7021	ADG1154	ADG1154	
NSP	2	Warranty Card	ARY7043	Not used	Not used	
	4	Operating Instructions (English)	DRB1297	Not used	Not used	
	4	Operating Instructions (English/ Spanish)	Not used	DRB1299	Not used	
	4	Operating Instructions (English/ French /German/ Italian/ Dutch/ Spanish)	Not used	Not used	DRB1298	
	12	Packing Case	DHG2145	DHG2146	DHG2129	
NSP	14	Mini Catalogue	Not used	Not used	DRY1194	
NSP	15	Label	VRW1629	Not used	Not used	
NSP	16	Pamphlet	Not used	Not used	DRY1188	
NSP	17	MMC Catalog	Not used	Not used	DRY1195	

2.2 EXTERIOR (1/2) SECTION



(1) EXTERIOR (1/2) SECTION PARTS LIST

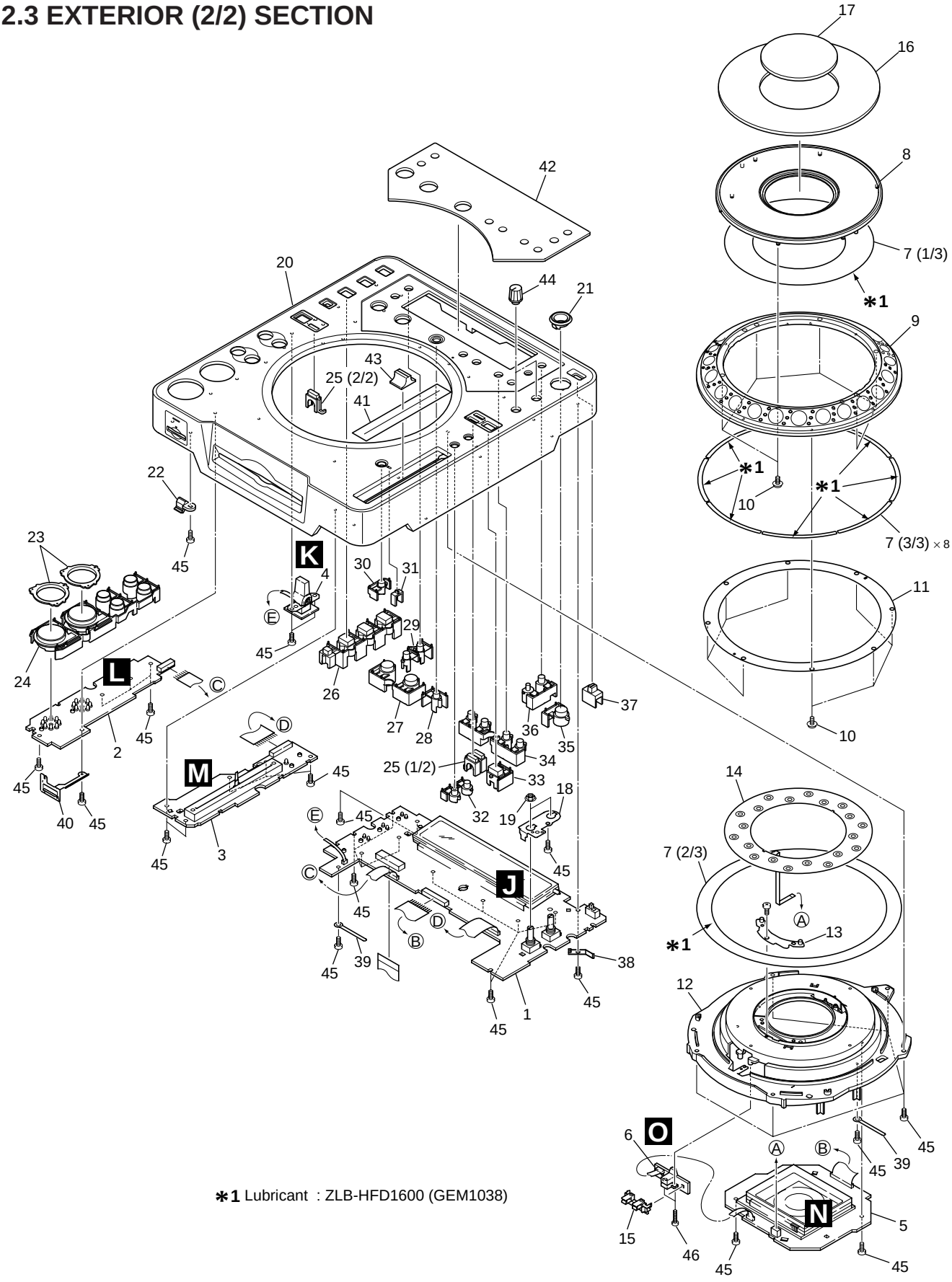
Mark	No.	Description	Part No.
	1	MAIN Assy	DWX2161
	2	MMCB Assy	DWX2169
	3	SPCN Assy	DWX2170
	4	STCN Assy	DWX2171
	5	SLMB Assy	DWX1309
	6	PSWB Assy	See Contrast table (2)
	7	DABB Assy	DWX2162
	8	JACB Assy	DWX2163
	9	DOUT Assy	DWX2164
	10	FLRB Assy	DWX2166
⚠	11	SW POWER SUPPLY Assy	DWR1344
	12	25P Flexible Cable/60V	DDD1189
	13	12P Flexible Cable/60V	DDD1190
	14	4P Flexible Cable/60V	DDD1191
	15	Earth Lead Unit/300V	DDF1015
	16	Connector Assy 3P	DKP3546
	17	Connector Assy 3P	DKP3548
	18	FPC D5 Slot	DNP1951
	19	Jumper Wire 03P	D20PYY0310E
	20	Jumper Wire 05P	D20PYY0510E
	21	Jumper Wire 09P	D20PYY0910E
	22	Jumper Wire 15P	D20PYY1510E
	23	Connector Assy	PF03PP-B30
	24	Connector Assy	PG07KK-F15
	25	Float Spring (G5)	DBH1485
	26	Earth Spring	DBH1398
	27	Chassis	DNK3869
NSP	28	Rear Panel	See Contrast table (2)
	29	Heat Sink	DNG1081
	30	Power Knob	DAC1895
	31	Front Plate	DNH2480
	32	Cord Clamper	RNH-184
	33	Damper	CNV6011
	34	Earth Plate (CU)	VBK1070
	35	Shield Case	DNH2481
	36	Shield Cushion	DEC2445
	37	Insulator Assy	DXA1904
	38	Memory Holder	DNK3884
	39	Flap Spring	DBH1487
	40	SD Flap	DNK3883
NSP	41	Silicone Rubber D5L	DEB1456
	42	Bottom Plate	DNH2479
	43	Bottom Cushion	DEC2444
	44	Mecha Plate	DNH2339
	45	Caution Label	See Contrast table (2)
NSP	46	Caution Label HE	See Contrast table (2)
	47	Screw	BPZ30P080FZK
	48	Screw	BBZ30P060FZK
	49	Screw	BBZ30P120FZK

(2) CONTRAST TABLE

CDJ-1000/KUC, TL and WY types are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			KUC Type	TL Type	WY Type	
	6	PSWB Assy	DWS1312	DWS1311	DWS1311	
NSP	28	Rear Panel	DNC1576	DNC1577	DNC1567	
	45	Caution Label	Not used	VRW1094	VRW1094	
NSP	46	Caution Label HE	Not used	VRW1297	VRW1297	

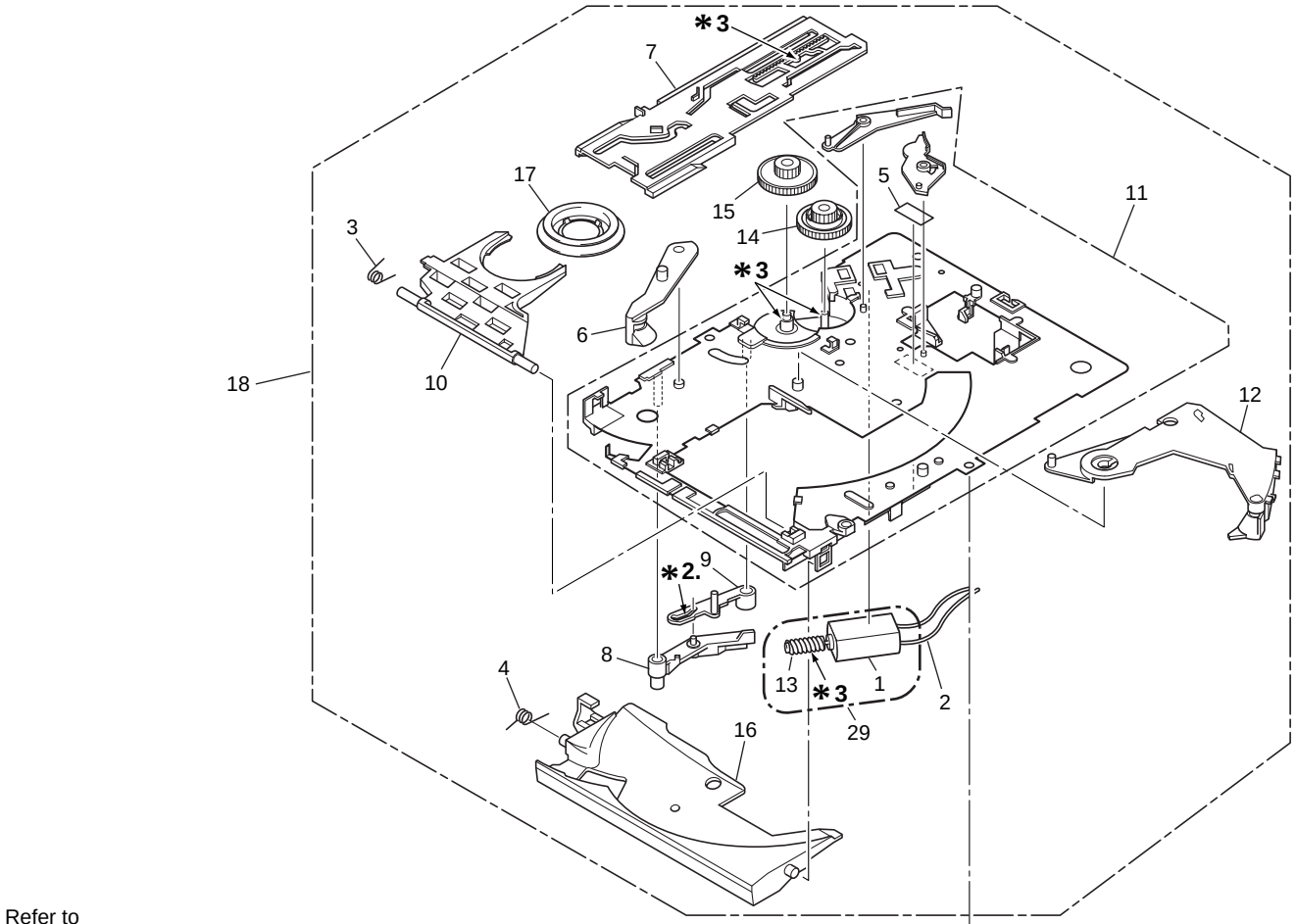
2.3 EXTERIOR (2/2) SECTION



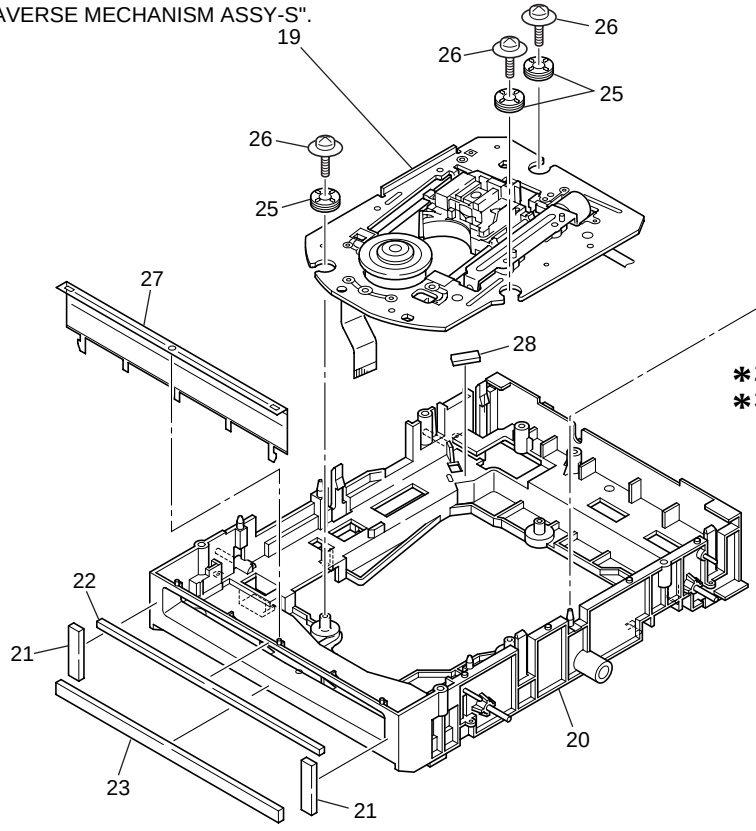
● EXTERIOR (2/2) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MFLB Assy	DWG1548
	2	KSWB Assy	DWS1307
	3	SLDB Assy	DWS1308
	4	RSWB Assy	DWS1310
	5	JFLB Assy	DWG1549
	6	JOGB Assy	DWG1550
	7	JOG Sheet Assy	DXB1757
	8	JOG Dial A	DNK3870
	9	JOG Dial B	DNK3871
	10	Screw	PBA1062
	11	Encoder Plate	DEC2425
	12	JOG Holder	DNK3872
	13	JOG Stay Assy	DXB1760
	14	Sheet SW	DSX1057
	15	Encoder Guide	DNK3873
	16	JOG Plate	DAH2052
	17	JOG Panel	DAH2051
	18	VR Stay	DNF1663
	19	Flange Nut (M9)	DBN1004
	20	Control Panel	DNK3875
	21	Eject Guard	DNK3958
	22	Card Lens	DNK3885
	23	Ring Lens	DNK3880
	24	Set Knob (PLAY) Assy	DXB1750
	25	Mode Lens	DNK3881
	26	Set Knob (HS)	DAC1986
	27	Set Knob (LOOP)	DAC1995
	28	Re-loop Knob	DAC1992
	29	Set Knob (TIME)	DAC1991
	30	Tempo Reset Knob	DAC1993
	31	Tempo Lens	DNK3882
	32	Set Knob (MT)	DAC1987
	33	Mode Select Knob	DAC1989
	34	Set Knob (SC)	DAC1988
	35	Eject Knob	DAC1990
	36	Set Knob (MEMO)	DAC1994
	37	Slide SW Knob	DAC1926
	38	Earth Plate (CU)	VBK1070
NSP	39	Cord Clamper	Z09-061
	40	Card Plate	DBK1212
	41	Slide Sheet 1C	DAH1988
	42	Display Panel	DAH2022
	43	Slide Knob	DNK2936
	44	Rotary Knob C	DAA1143
	45	Screw	BPZ30P080FZK
	46	Screw	BPZ20P120FMC

2.4 SLOT-IN MECHANISM SECTION



Refer to
"2.5 TRAVERSE MECHANISM ASSY-S".

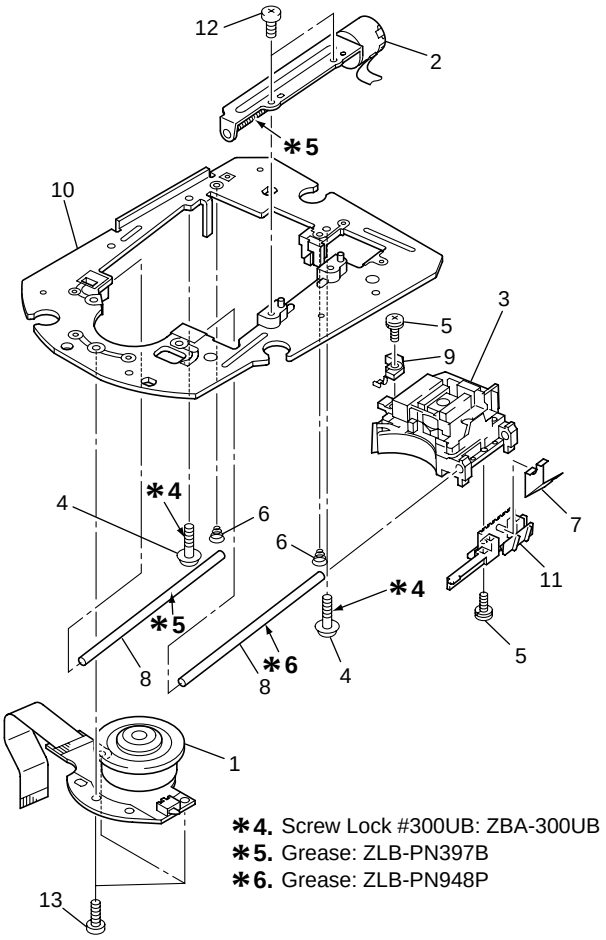


✱2. Dyefree : ME-913A (ZLX-ME413A)
✱3. Grease : ZLB-PN397B

● SLOT-IN MECHANISM SECTION PARTS LIST

Mark	No.	Description	Part No.
NSP	1	DC Motor	DXM1093
	2	Connector Assy	PF02PY-B32
	3	Clamp Spring	DBH1374
	4	Guide Spring	DBH1375
	5	SW Lever Spacer (PET)	DEC2420
	6	Loading Lever	DNK3406
	7	Main Cam	DNK3407
	8	Lever B	DNK3558
	9	Lever A	DNK3564
	10	Clamp Arm	DNK3576
	11	Loading Base Assy-S	DEA1022
	12	Eject Lever	DNK3684
NSP	13	Worm Gear	DNK3910
	14	Loading Gear	DNK3911
	15	Drive Gear	DNK3912
	16	Disc Guide	DNK3914
	17	Clamper D4 Assy	DXA1881
NSP	18	Slot-in Mechanism G5 Assy	DXA1906
	19	Traverse Mechanism Assy-S	DXX2502
	20	Float Base (G5) Assy	DXB1748
	21	Vessel Cushion C	DEC2424
	22	Vessel Cushion A	DEC2257
	23	Vessel Cushion B	DEC2258
	24	• • • • •	
	25	Float Rubber D3	DEB1404
	26	Float Fastener	DBA1139
	27	Front Sheet	DED1132
	28	Spacer POR (T3)	DEB1467
	29	Loading Motor Assy-S	DEA1008

2.5 TRAVERSE MECHANISM ASSY-S



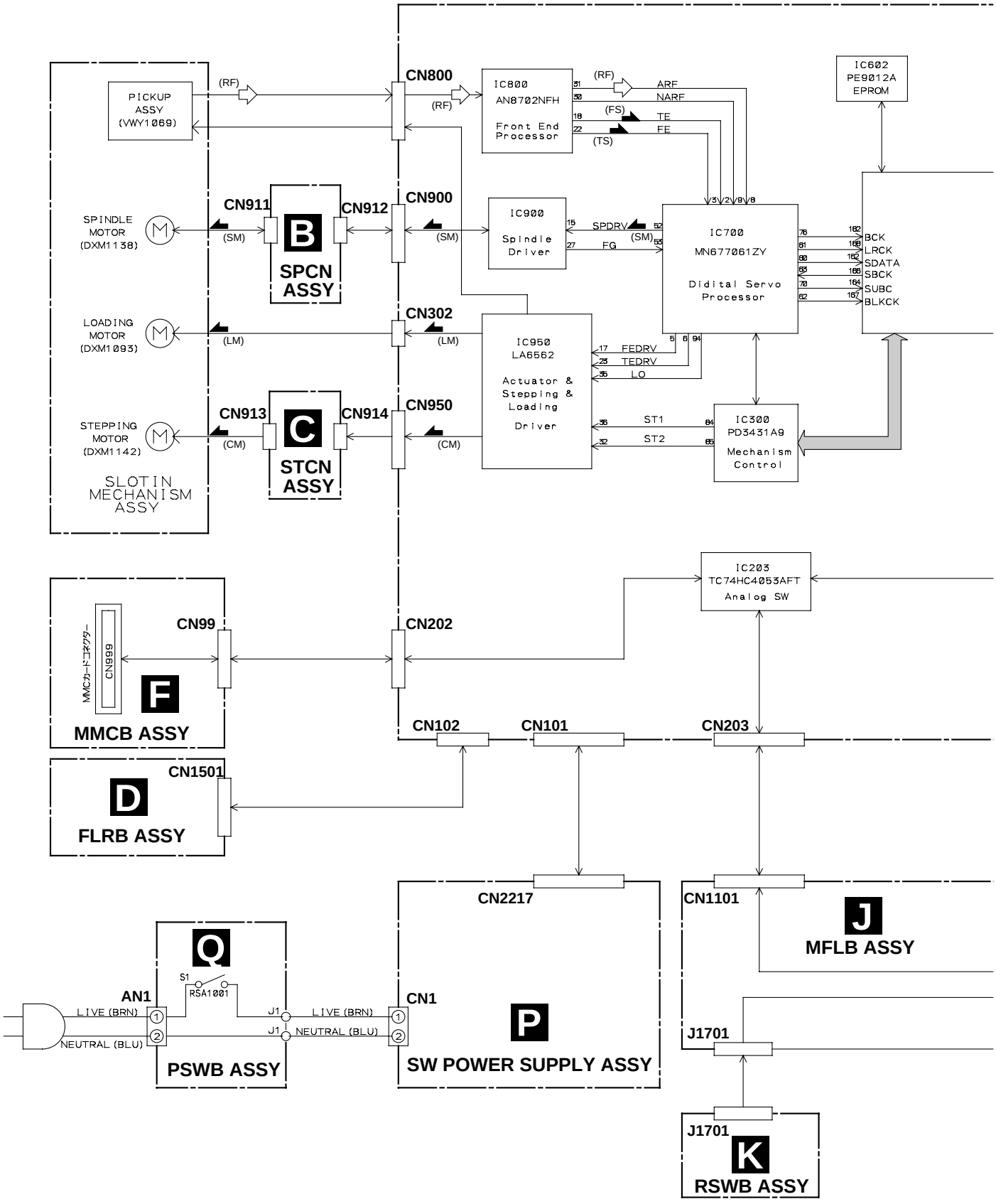
∗4. Screw Lock #300UB: ZBA-300UB
∗5. Grease: ZLB-PN397B
∗6. Grease: ZLB-PN948P

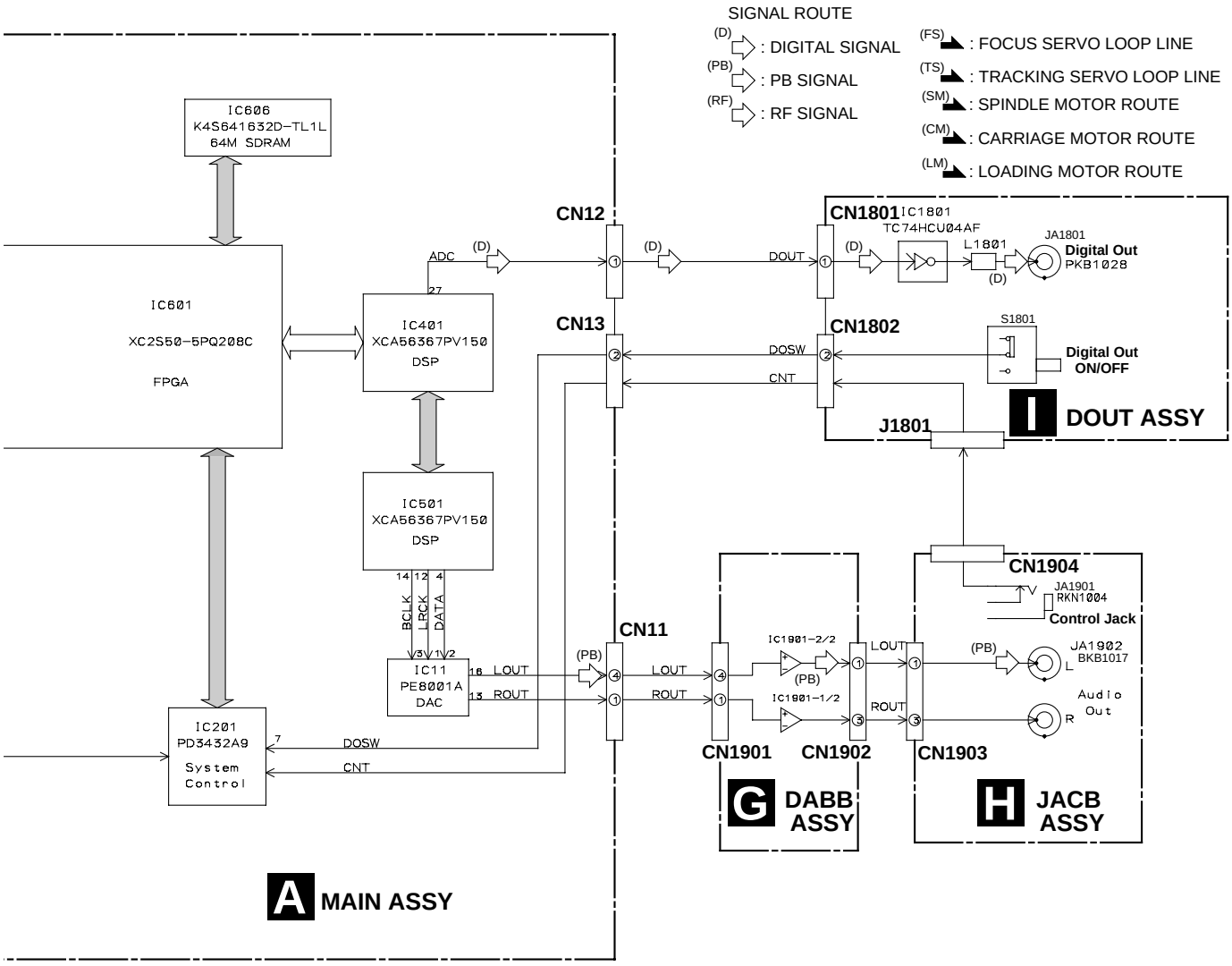
● TRAVERSE MECHANISM ASSY-S PARTS LIST

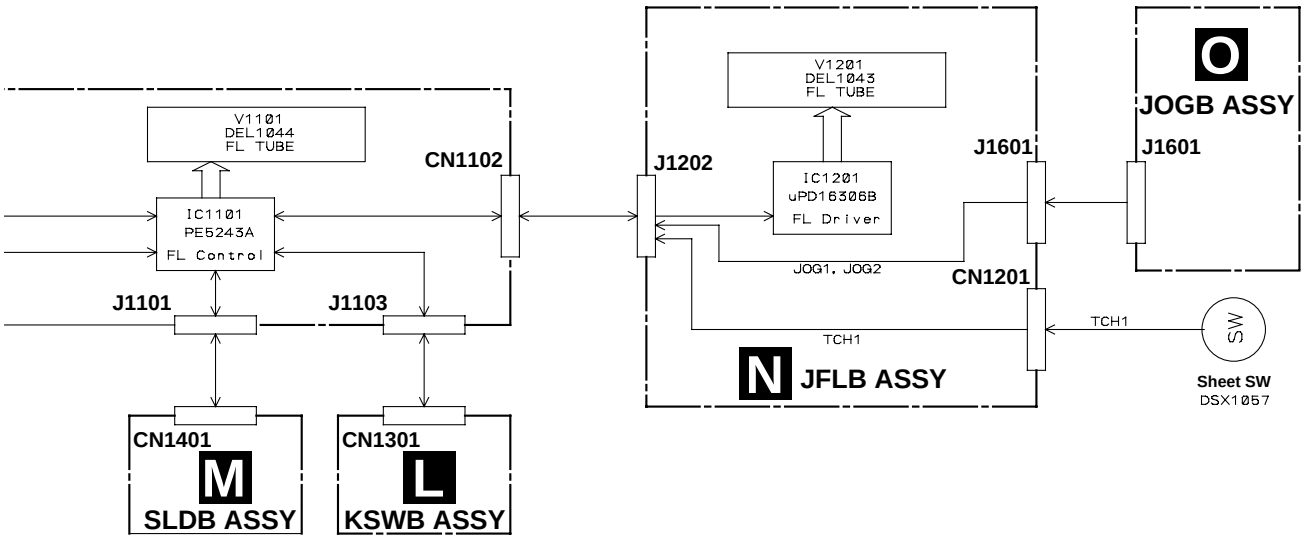
Mark	No.	Description	Part No.
NSP	1	Spindle Motor	DXM1138
NSP	2	Stepping Motor	DXM1142
NSP	3	Pickup Assy	VWY1069
NSP	4	Adjust Screw	DBA1119
NSP	5	Precision Screw	DBA1124
NSP	6	Skew Spring	DBH1437
NSP	7	Joint Spring	DBK1188
NSP	8	Guide Shaft	DLA1840
NSP	9	Slider G4	DNK3733
NSP	10	Mechanism Frame G5	DNK3776
NSP	11	Joint	DNK3777
	12	Screw	BPZ20P080FMC
	13	Screw	BPZ26P080FMC

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

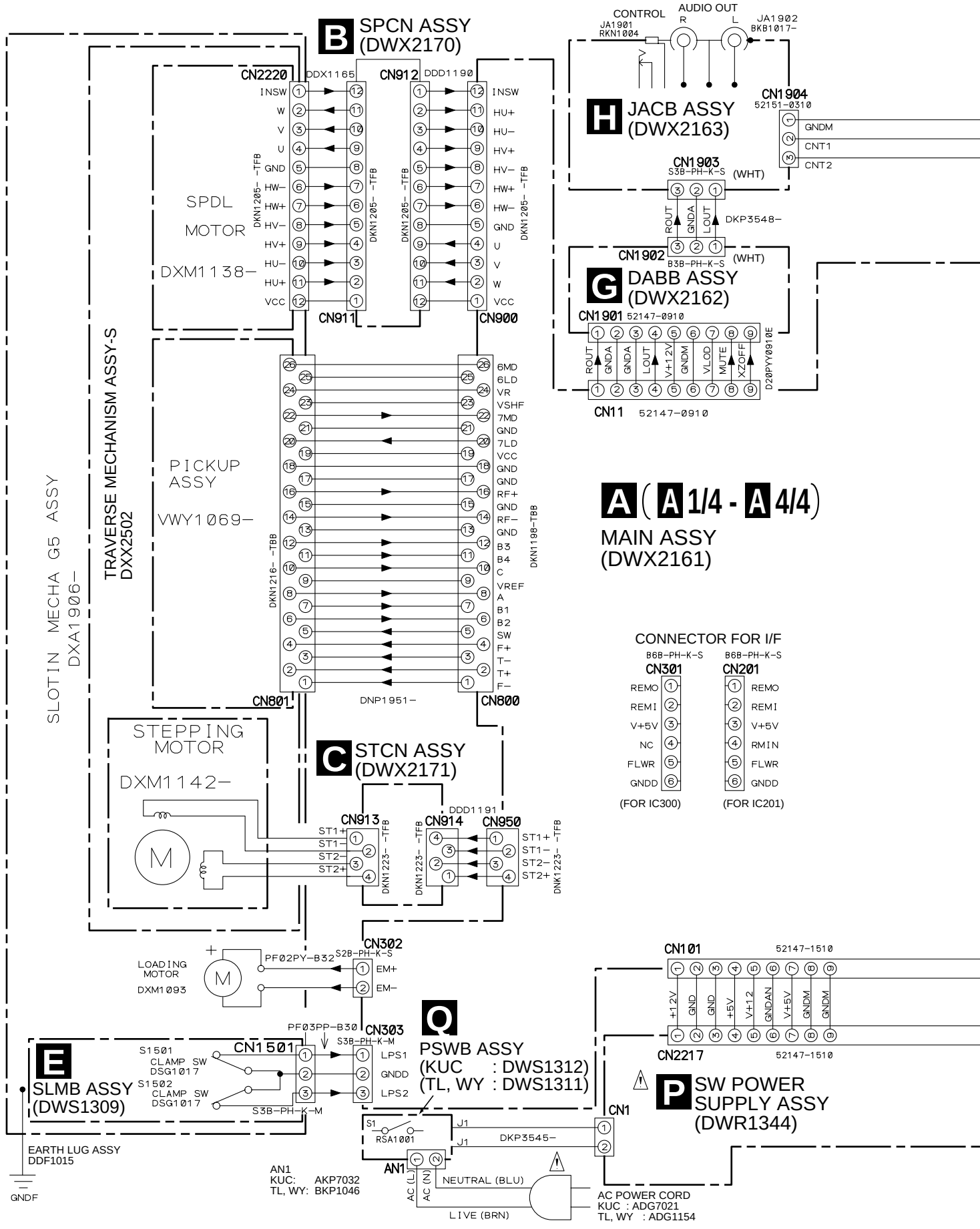
3.1 BLOCK DIAGRAM



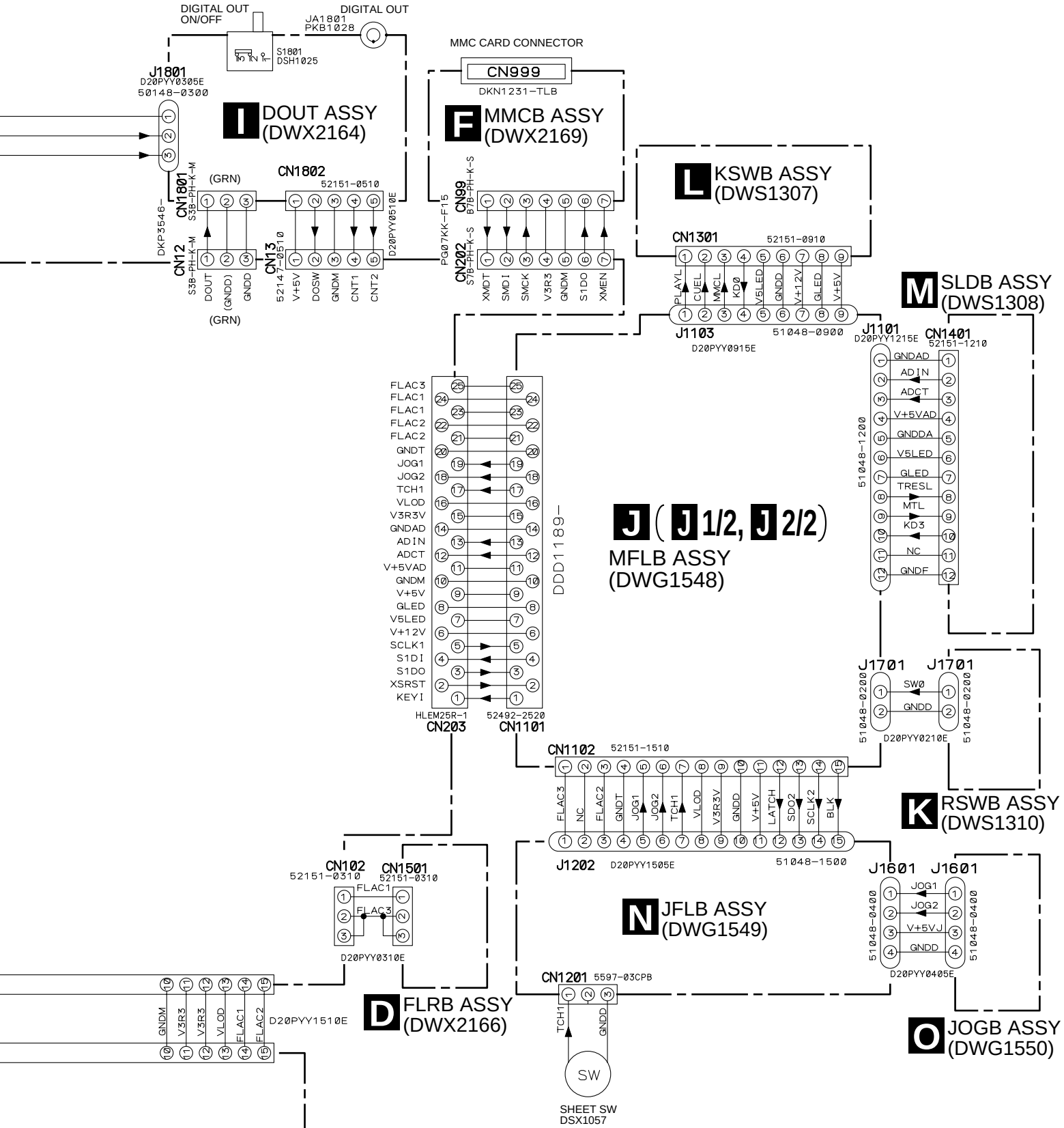

SIGNAL ROUTE
(D) : DIGITAL SIGNAL
(PB) : PB SIGNAL
(RF) : RF SIGNAL
(FS) : FOCUS SERVO LOOP LINE
(TS) : TRACKING SERVO LOOP LINE
(SM) : SPINDLE MOTOR ROUTE
(CM) : CARRIAGE MOTOR ROUTE
(LM) : LOADING MOTOR ROUTE
IC606
K4S641632D-TL1L
64M SDRAM
IC601
XC2S50-5PQ208C
FPGA
IC401
XCA56367PV150
DSP
IC501
XCA56367PV150
DSP
IC11
PE8001A
DAC
IC201
PD3432A9
System
Control
ADC
BCLK
LRCK
DATA
LOUT
ROUT
DOSW
CNT
CN12
CN13
CN11
CN1801
IC1801
TC74HCU04AF
L1801
JA1801
Digital Out
PKB1028
CN1802
S1801
Digital Out
ON/OFF
J1801
I DOUT ASSY
CN1904
JA1901
RKN1004
Control Jack
IC1901-2/2
IC1901-1/2
JA1902
BKB1017
Audio
Out
CN1901
CN1902
CN1903
G DABB ASSY
H JACB ASSY
A MAIN ASSY


V1101
DEL1044
FL TUBE
IC1101
PE5243A
FL Control
CN1102
J1101
J1103
CN1401
M
SLDB ASSY
CN1301
L
KSWB ASSY
V1201
DEL1043
FL TUBE
IC1201
uPD16306B
FL Driver
J1202
JOG1, JOG2
TCH1
J1601
CN1201
O
JOGB ASSY
J1601
TCH1
SW
Sheet SW
DSX1057
N JFLB ASSY

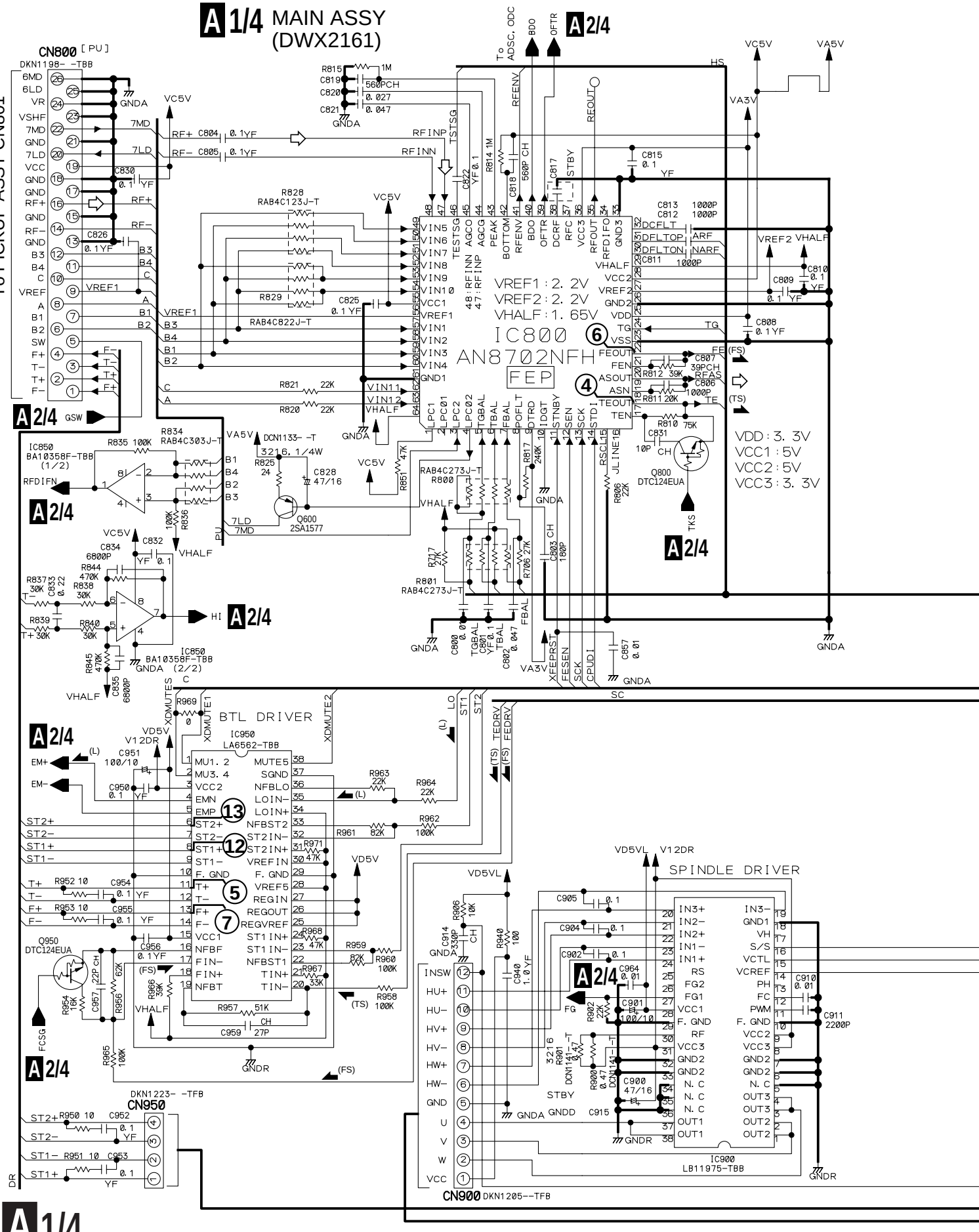
3.2 OVERALL WIRING DIAGRAM

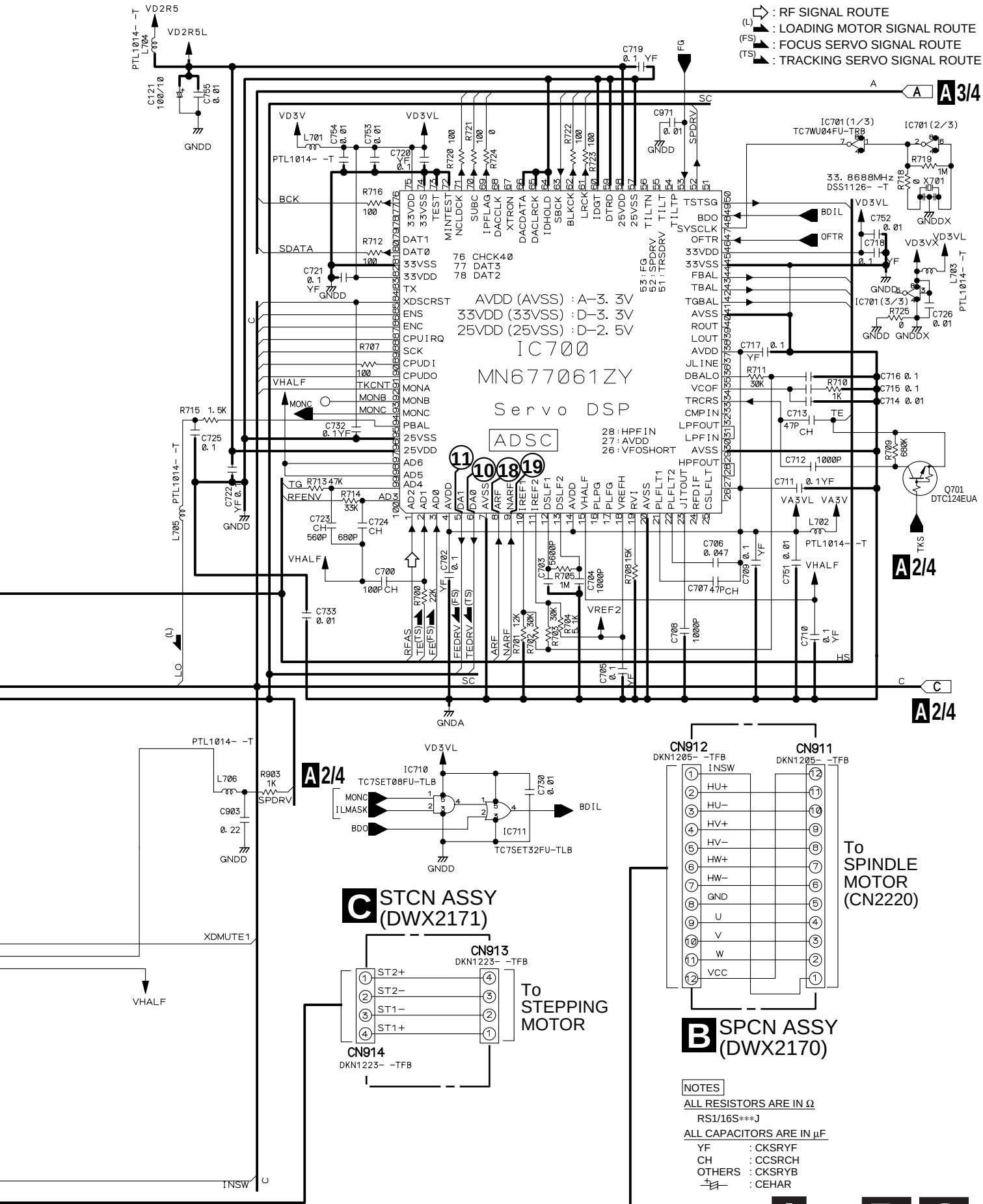


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.3 MAIN (1/4), SPCN and STCN ASSYS





NOTES

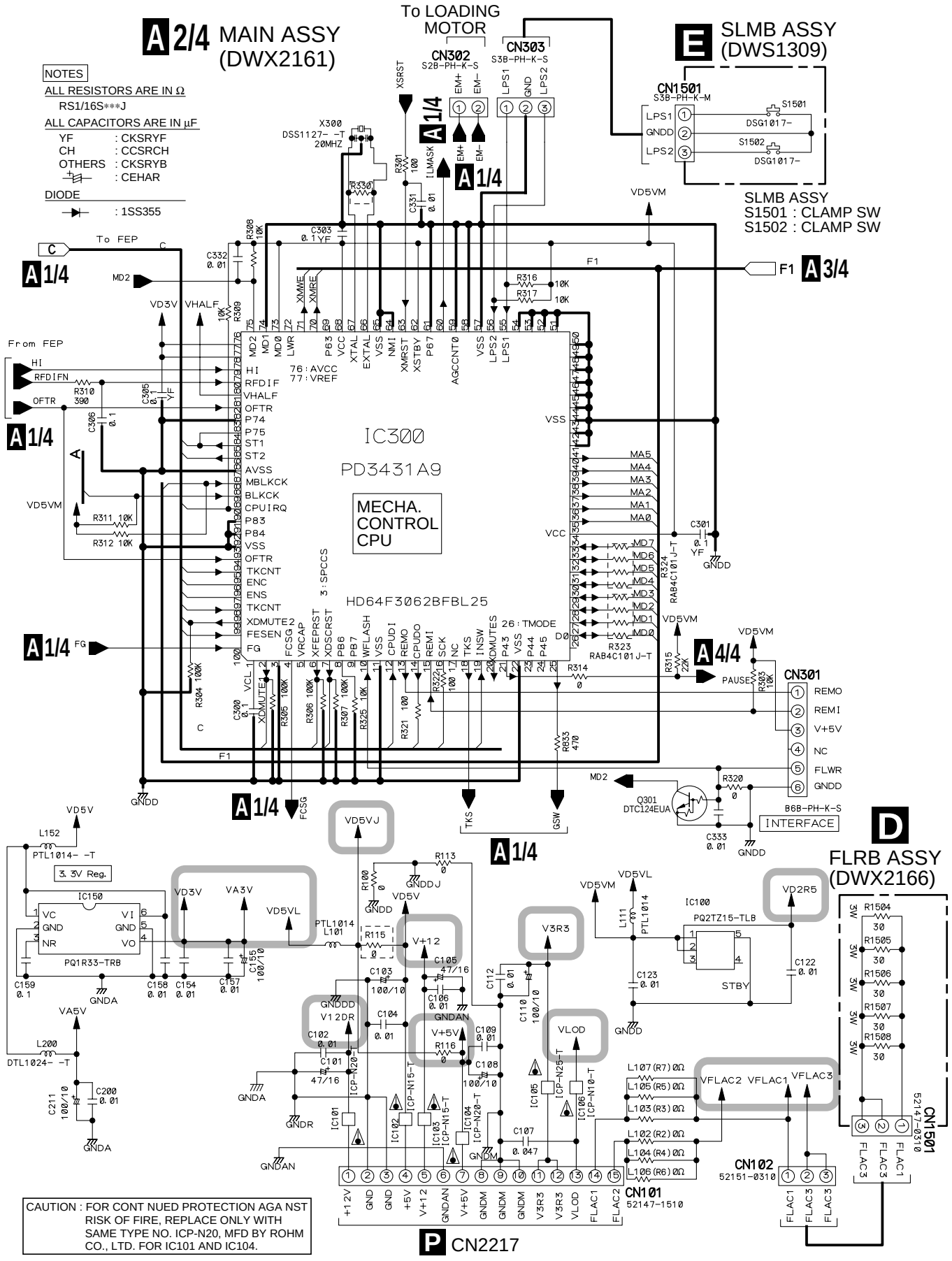
ALL RESISTORS ARE IN Ω

RS1/16S***J

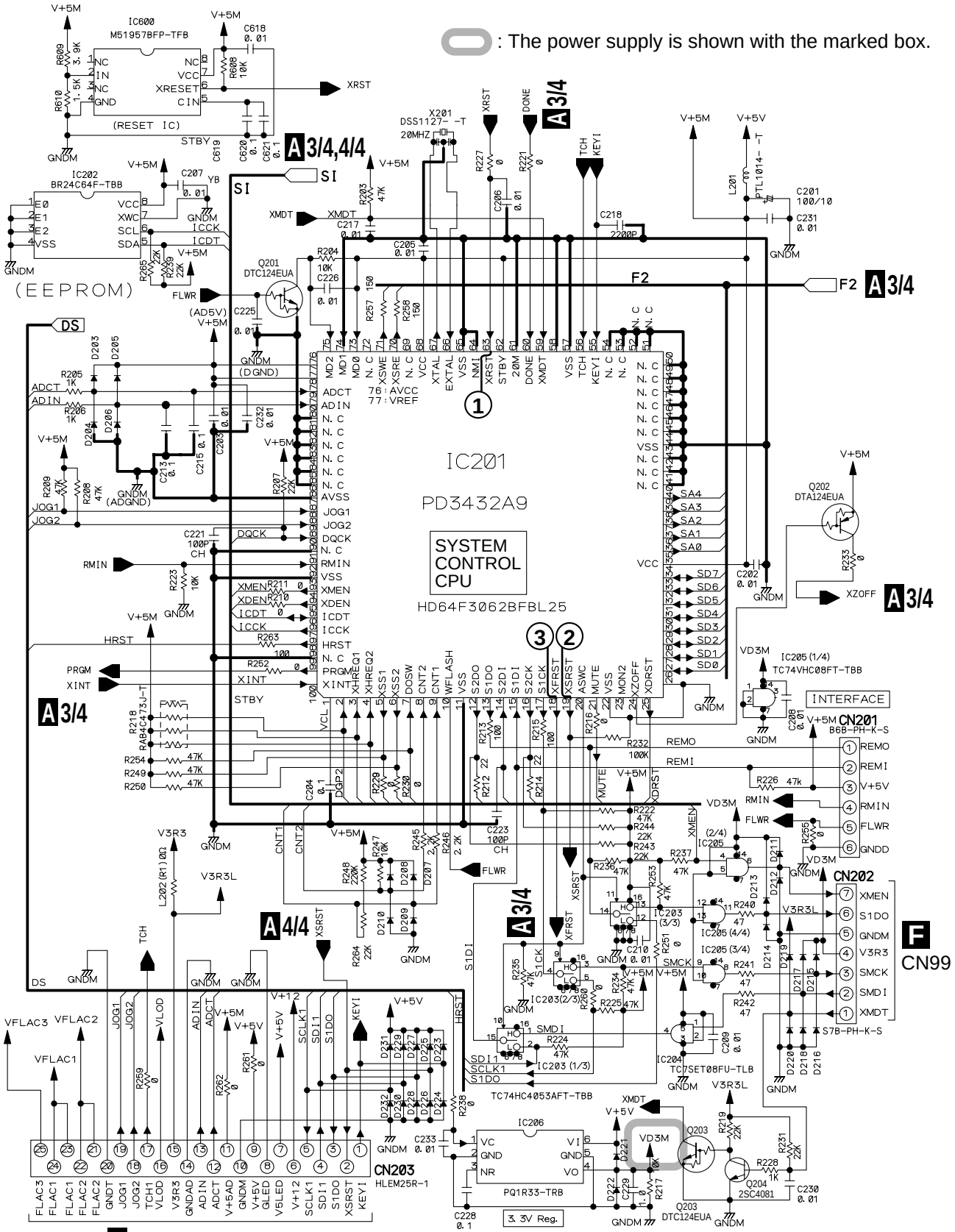
ALL CAPACITORS ARE IN μF

YF	: CKSRYF
CH	: CCSRCH
OTHERS	: CKSRYB
	: CEHAR

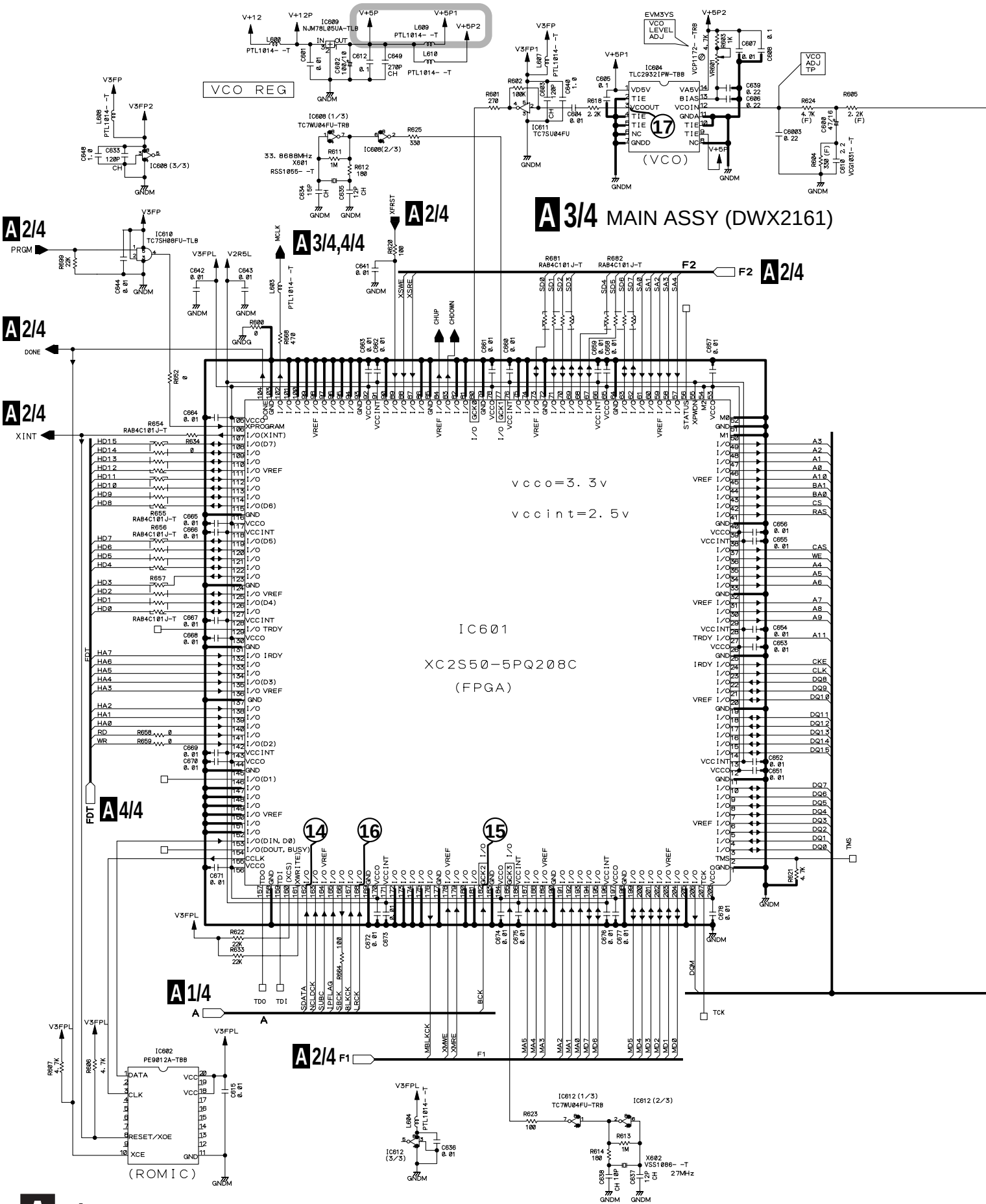
3.4 MAIN (2/4), FLRB and SLMB ASSYS



: The power supply is shown with the marked box.



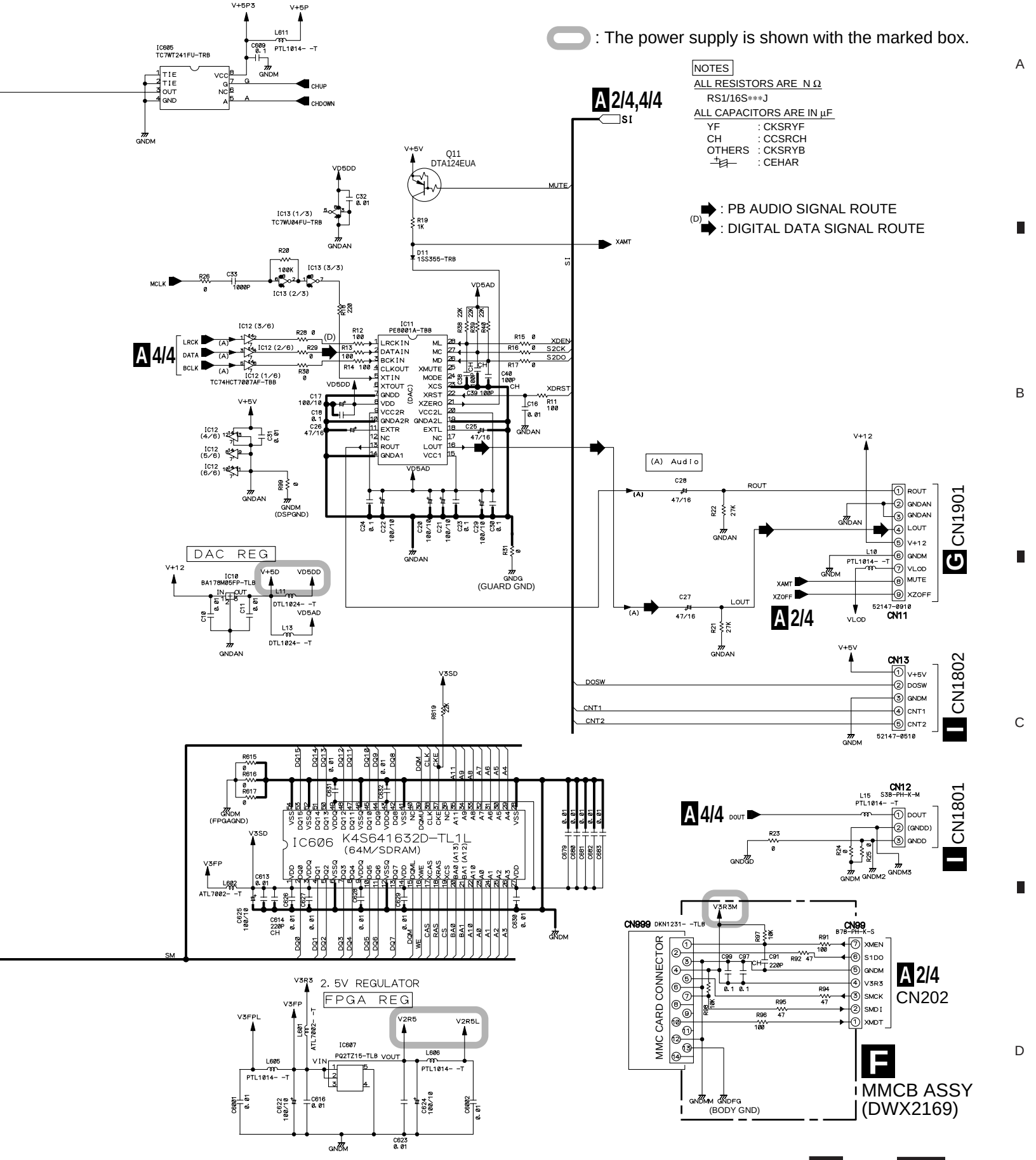
3.5 MAIN (3/4) and MMCB ASSYS



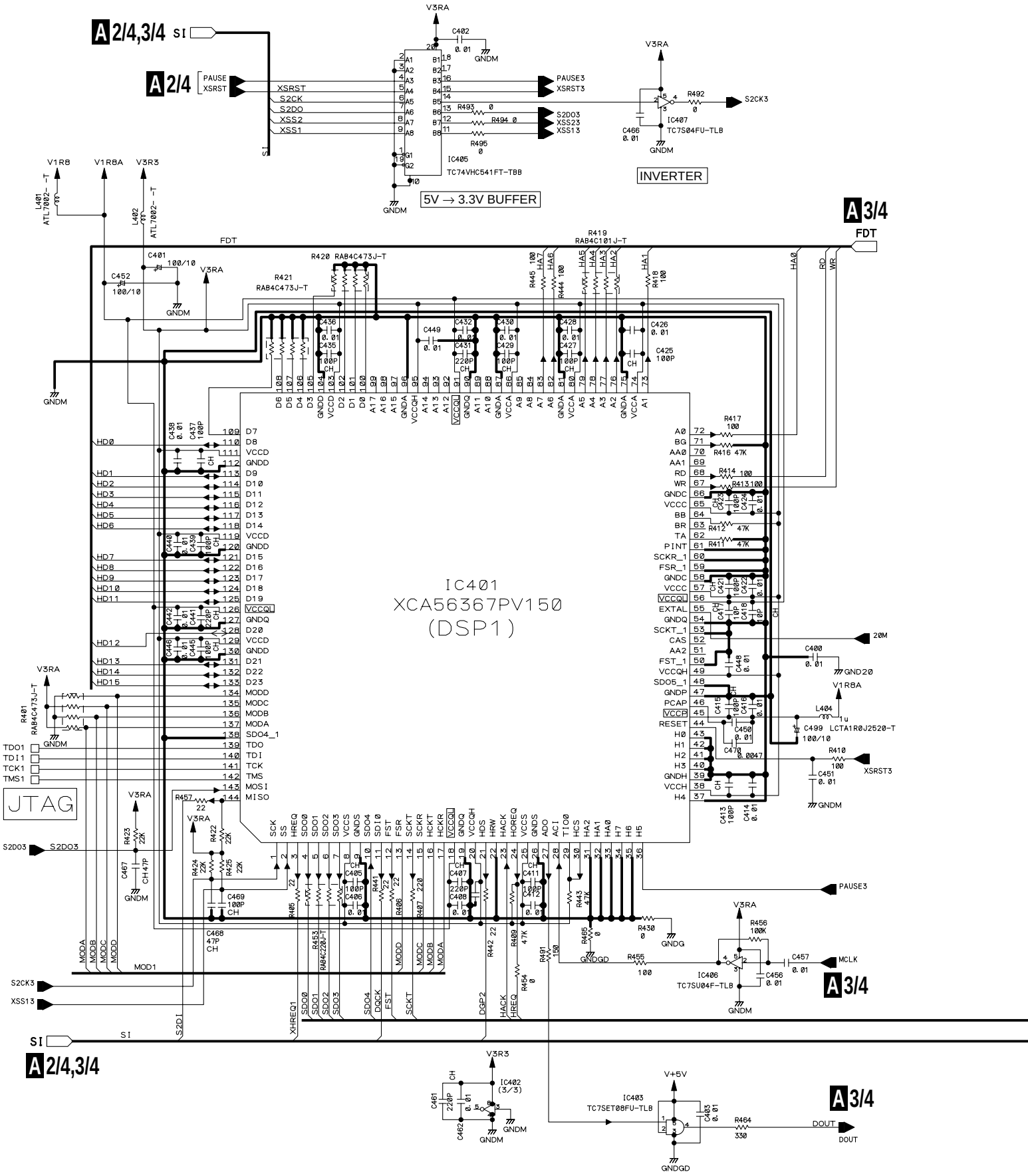
: The power supply is shown with the marked box.

NOTES
ALL RESISTORS ARE N Ω
RS1/16S***J
ALL CAPACITORS ARE IN μF
YF : CKSRYF
CH : CCSRCH
OTHERS : CKSRYB
: CEHAR

: PB AUDIO SIGNAL ROUTE
(D) : DIGITAL DATA SIGNAL ROUTE



3.6 MAIN ASSY (4/4)



A 4/4 MAIN ASSY (DWX2161)

: The power supply is shown with the marked box.

(D) : DIGITAL DATA SIGNAL ROUTE

NOTES

ALL RESISTORS ARE IN Ω

RS1/16S***J

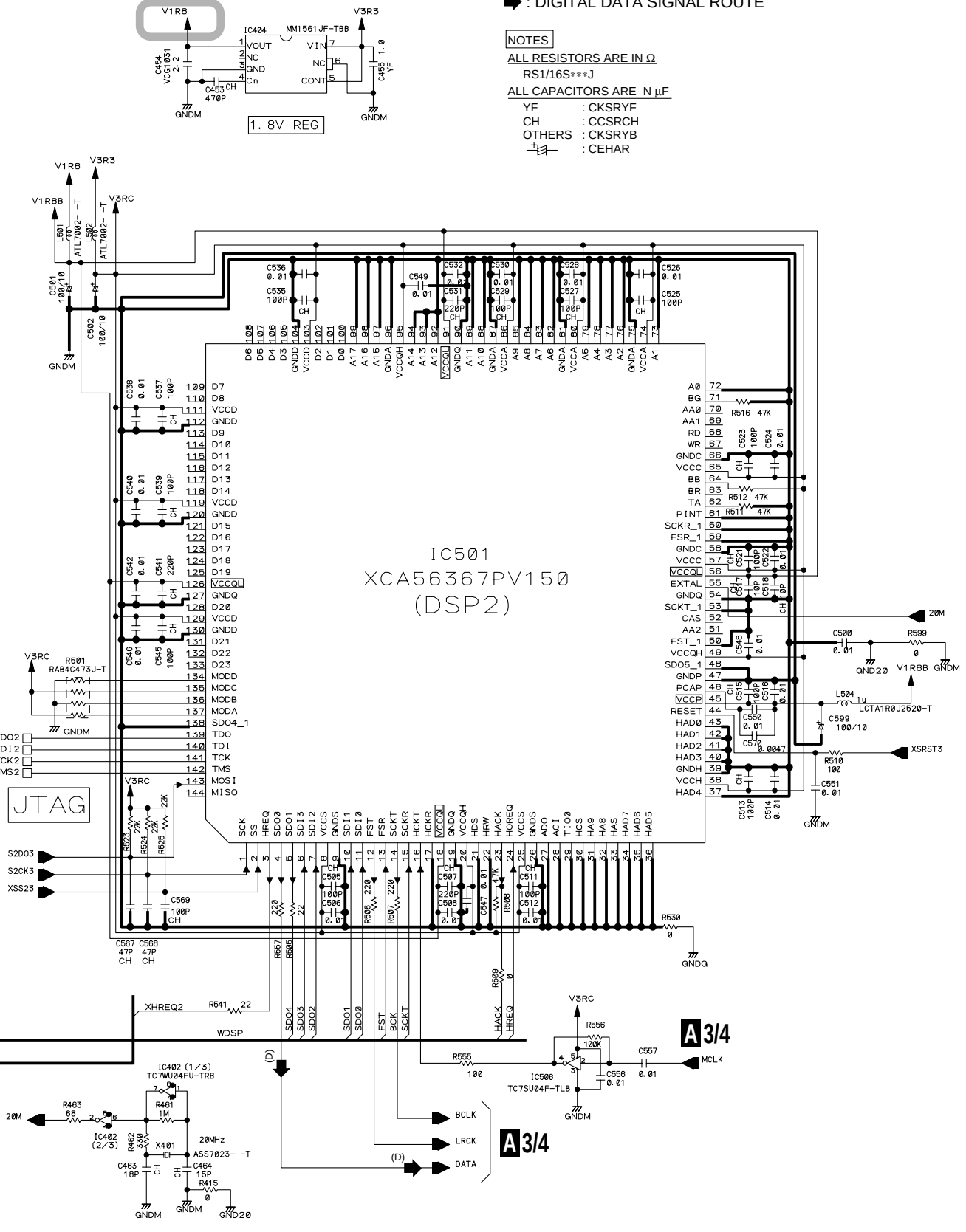
ALL CAPACITORS ARE N µF

YF : CKSRYF

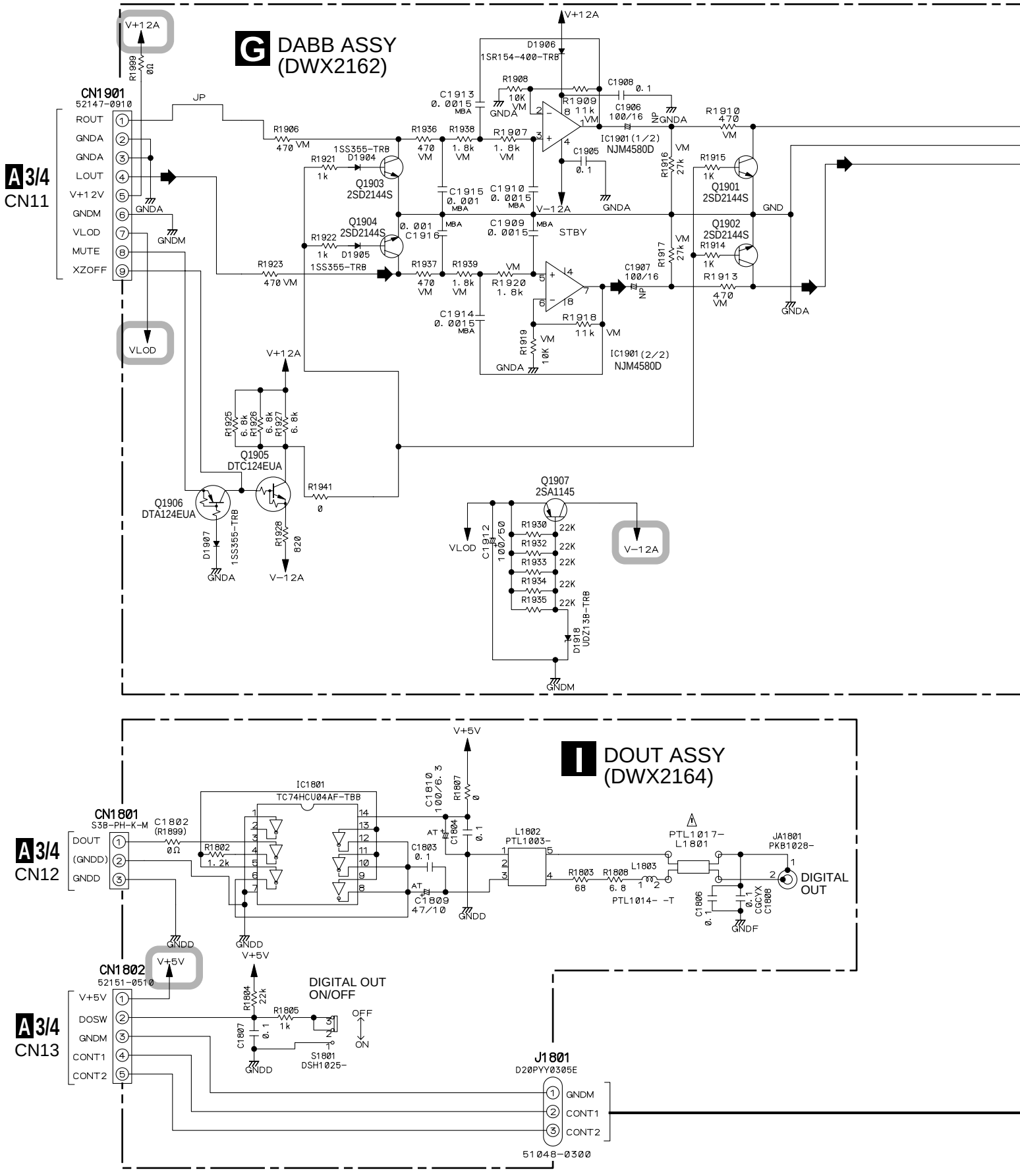
CH : CCSRCH

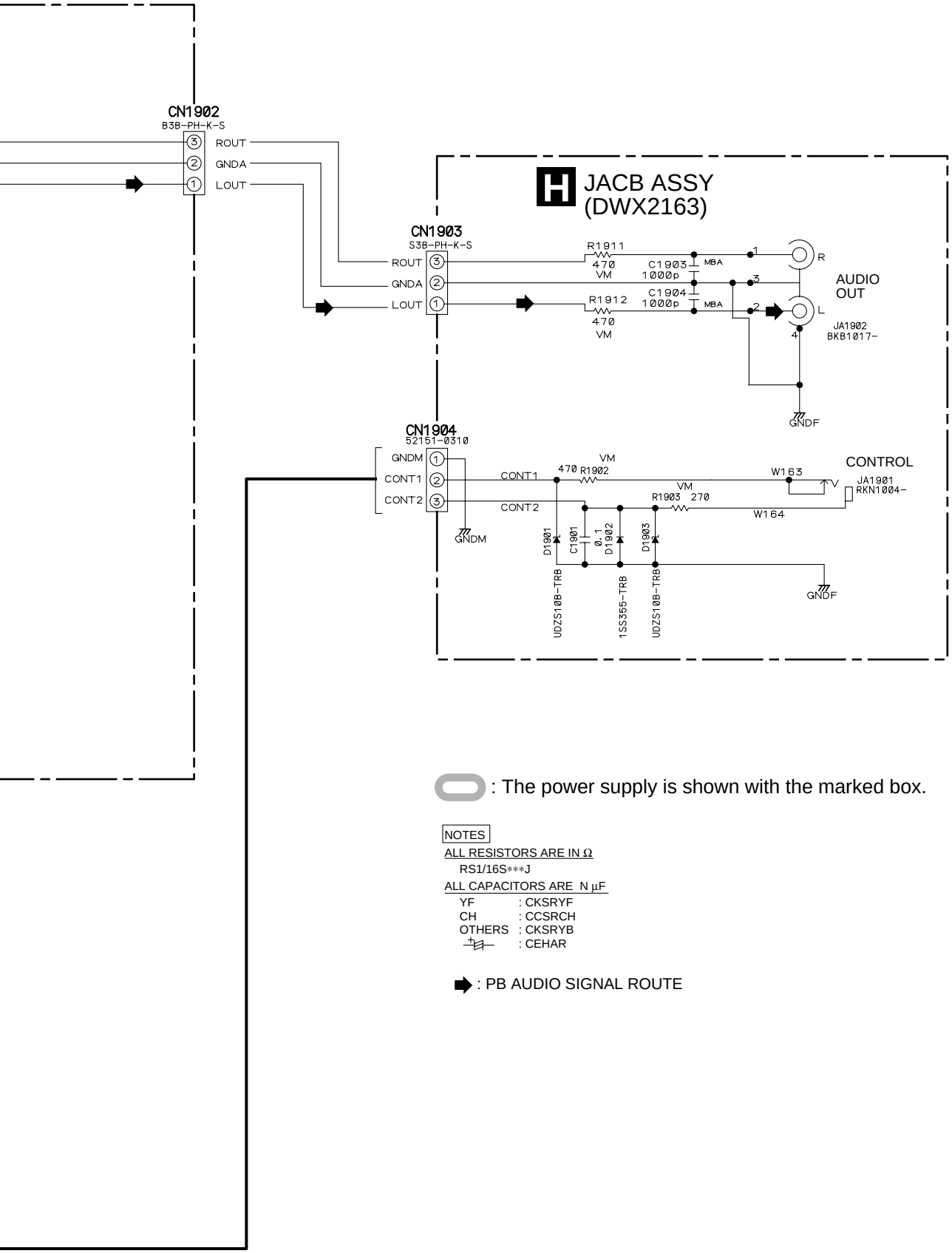
OTHERS : CKSRYB

: CEHAR



3.7 DABB, JACB and DOUT ASSYS





: The power supply is shown with the marked box.

NOTES

ALL RESISTORS ARE IN Ω

RS1/16S***J

ALL CAPACITORS ARE N μF

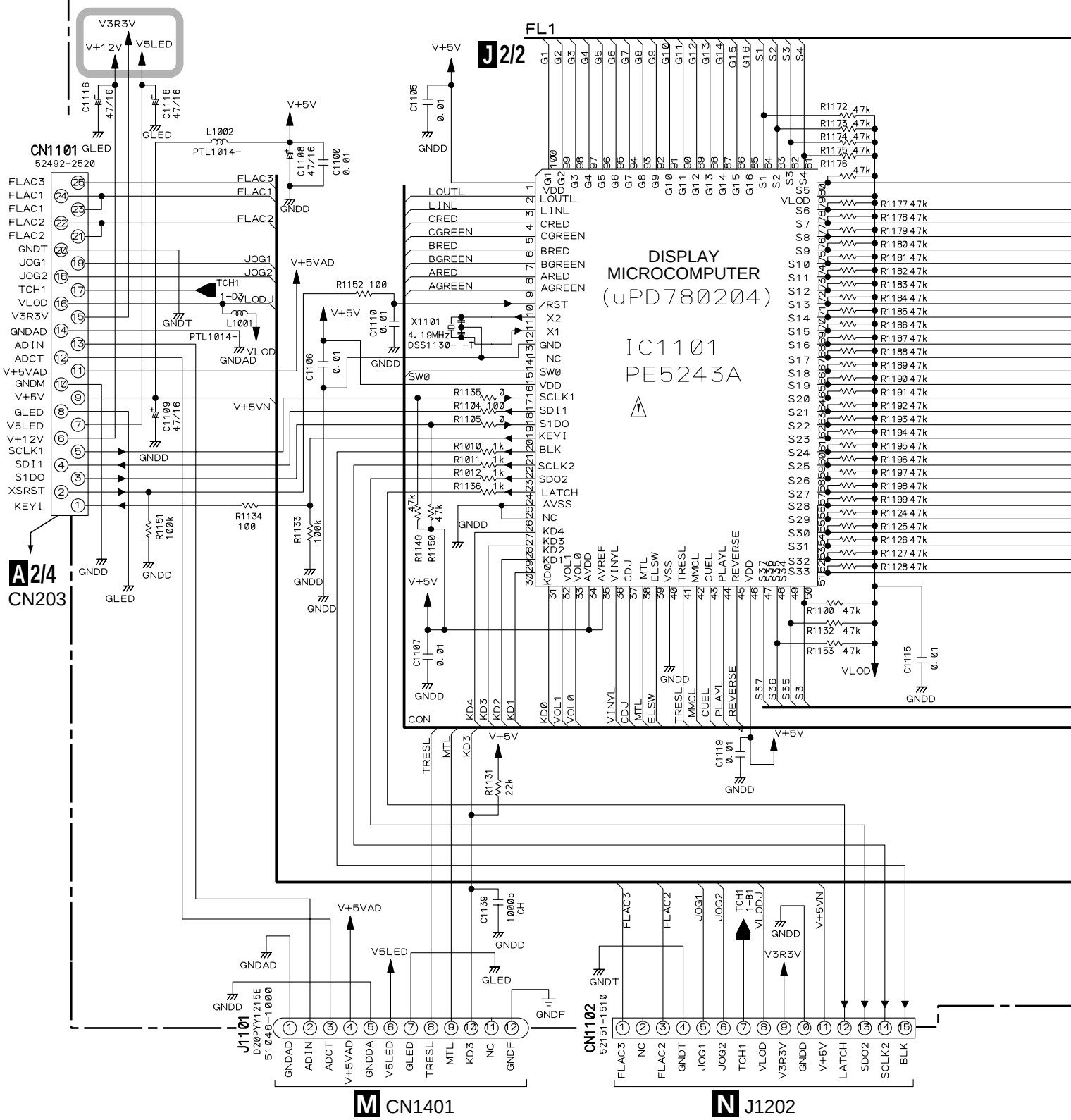
YF	: CKSRYF
CH	: CCSRCH
OTHERS	: CKSRYB
	: CEHAR

: PB AUDIO SIGNAL ROUTE

3.8 MFLB (1/2) and RSWB ASSYS

J 1/2 MFLB ASSY (DWG1548)

: The power supply is shown with the marked box.



SWITCHES

MFLB ASSY
S1101 : A
S1102 : B
S1103 : C
S1104 : DISPLAY
TEXT/WAVE
S1105 : TIME MODE
S1106 : ▲ (EJECT)
S1107 : SELECT
VINYL – CDJ
S1109 : ◄ CALL
S1110 : CALL ►
S1111 : MEMORY
S1112 : DELETE
S1113 : IN/REALTIME CUE
S1114 : LOOP OUT
S1115 : RELOOP/EXIT
S1116 : ◄ WAVE
S1117 : WAVE ►
S1118 : EJECT LOCK
S1119 : SELECT
RSWB ASSY
S1701 : FWD – REV

S1101-S1103,S1113-S1115 : DSG1063
S1104-S1107,S1109-S1112 : ASG7013
S1116,S1117,S1119 : ASG7013

D1104-D1107:
EMAY3864X-HM

NOTES
ALL RESISTORS ARE N Ω
RS1/16S***J
ALL CAPACITORS ARE IN μF
YF : CKSRYF
CH : CCSRCH
OTHERS : CKSRYB
: CEHAR

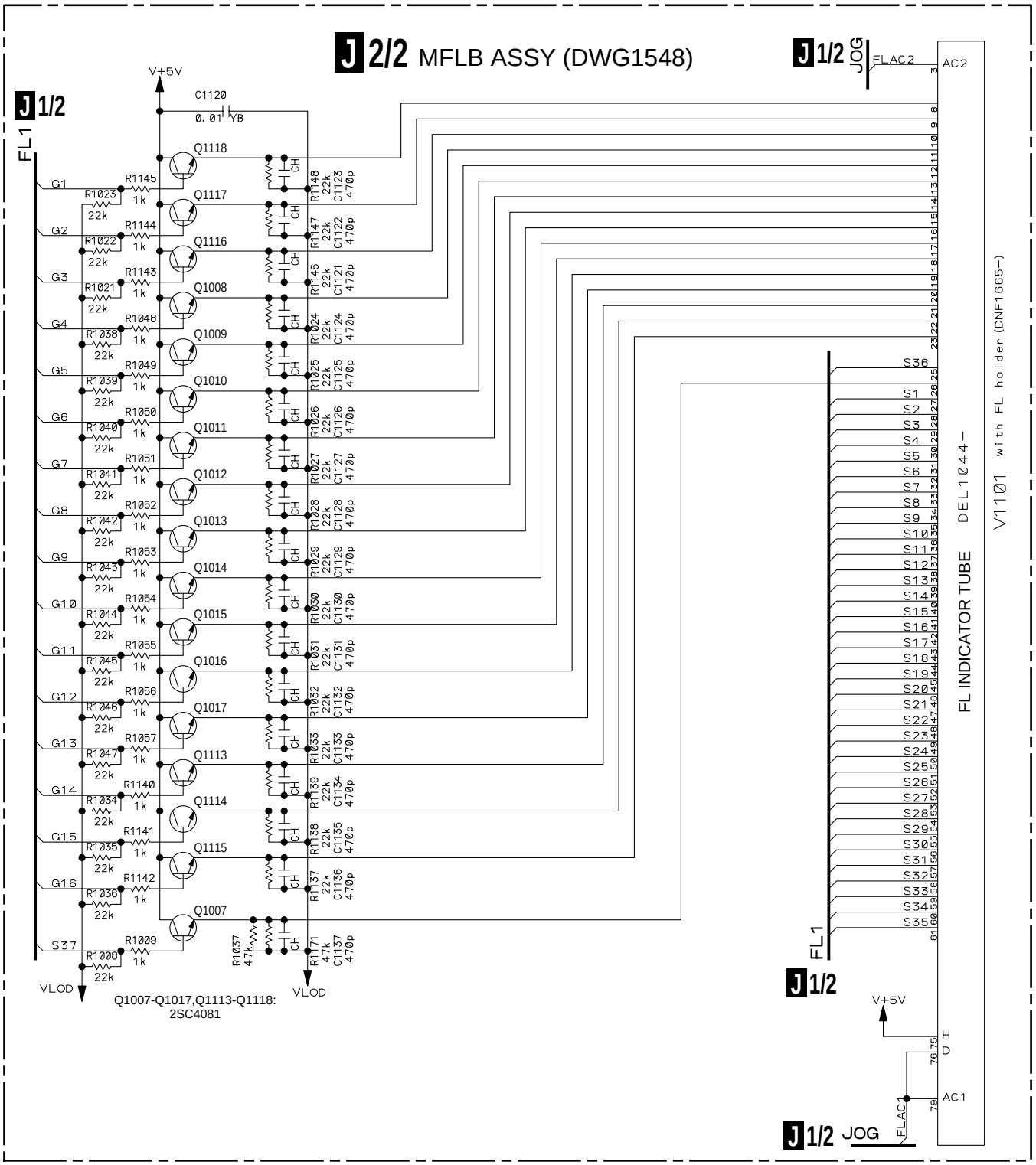
K RSWB ASSY (DWS1310)

L CN1301

J 2/2

J 1/2 K

3.9 MFLB ASSY (2/2



NOTES

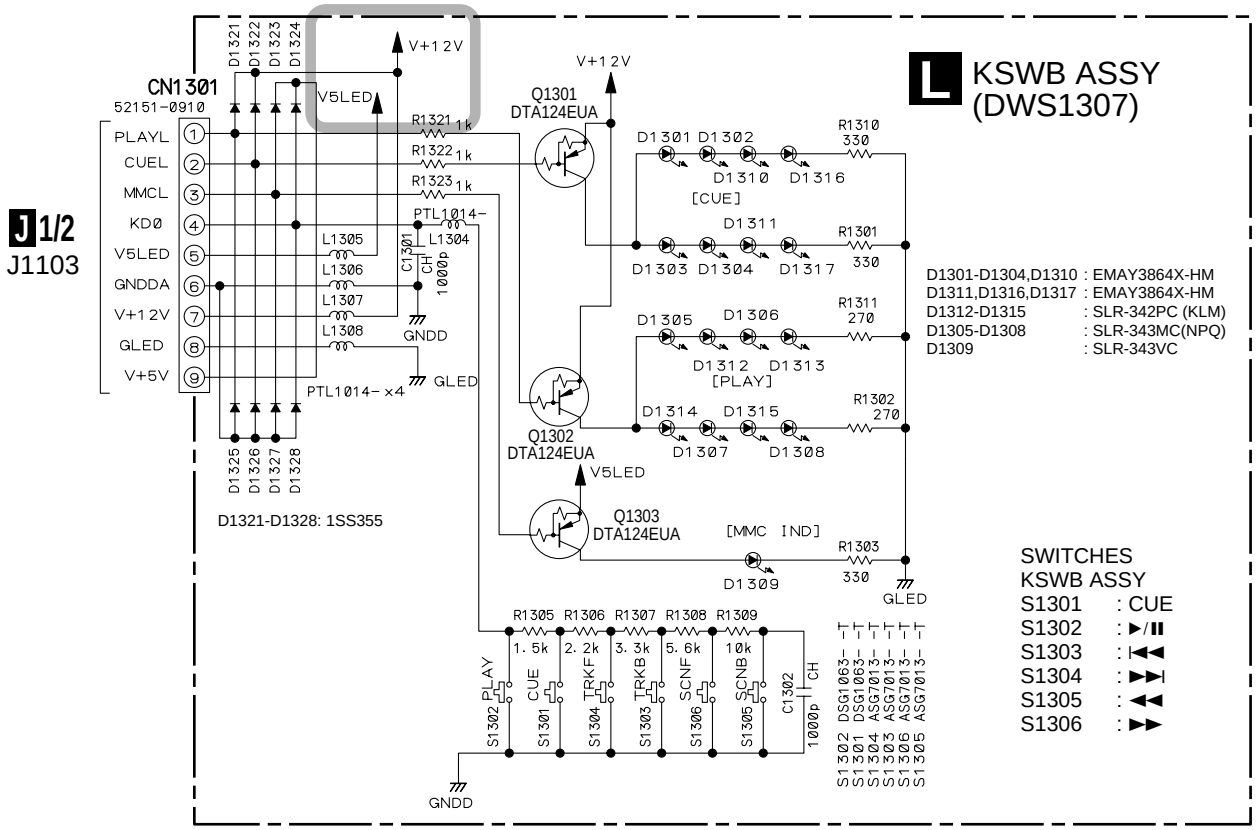
ALL RESISTORS ARE IN Ω

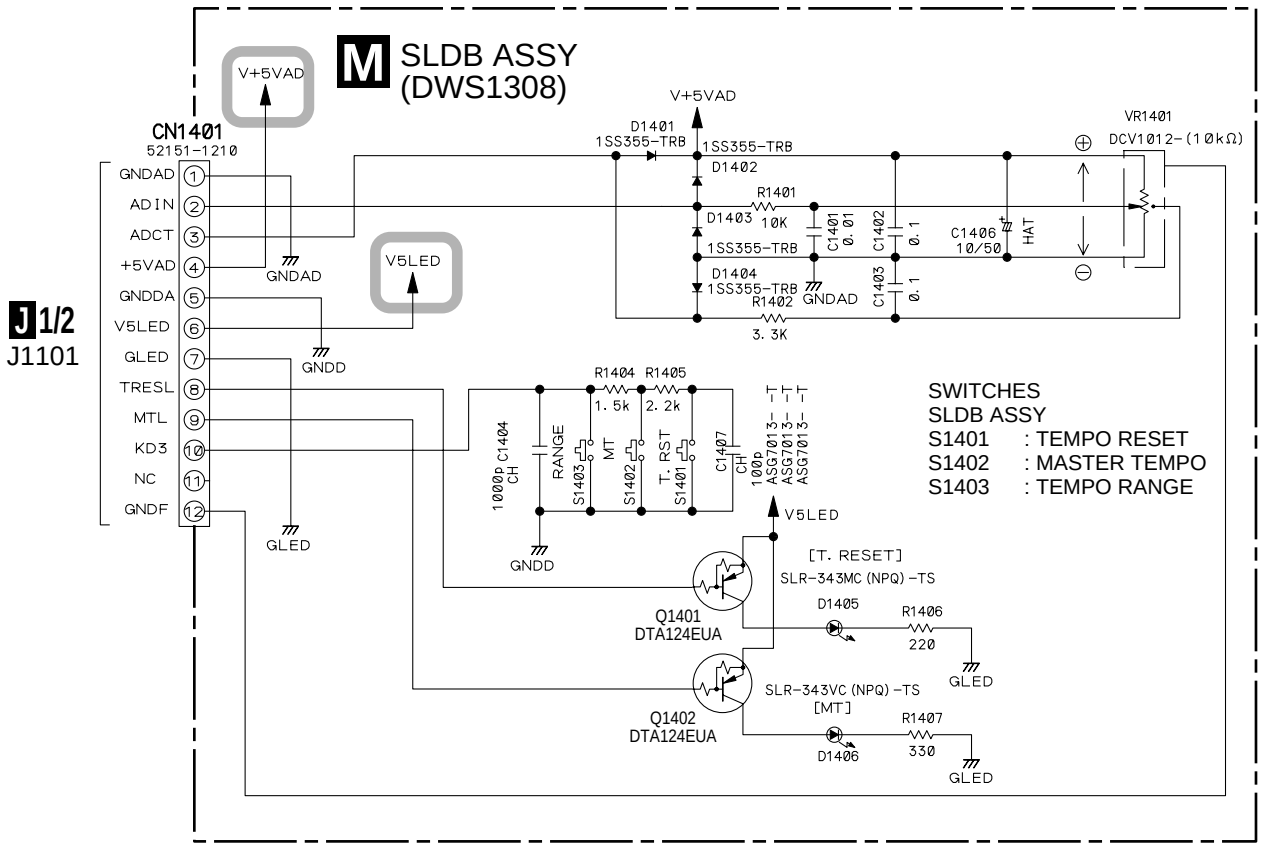
RS1/16S***J

ALL CAPACITORS ARE N μF

YF	: CKSRYF
CH	: CCSRCH
OTHERS	: CKSRYB
⊣⊢	: CEHAR

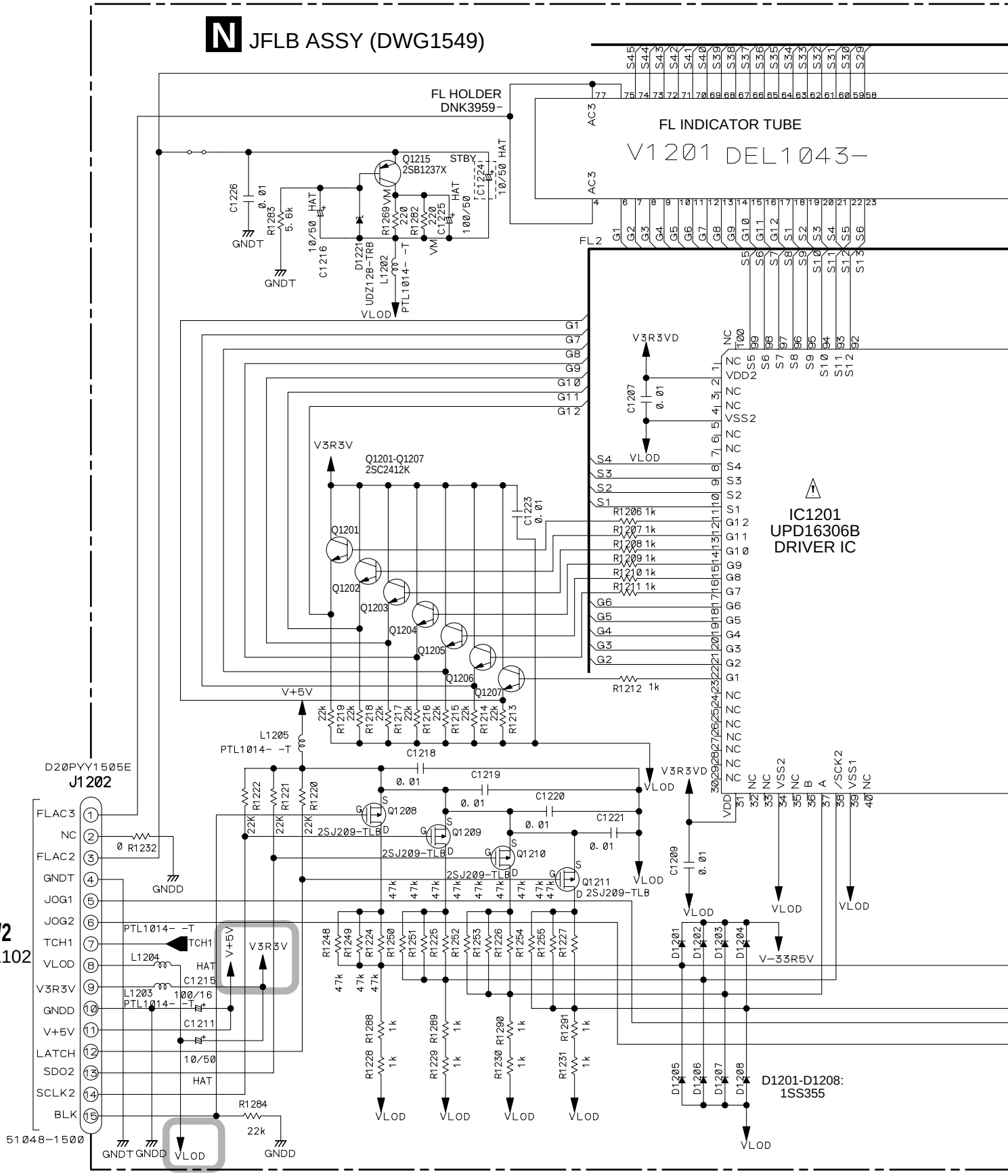
3.10 KSWB and SLDB ASSYS

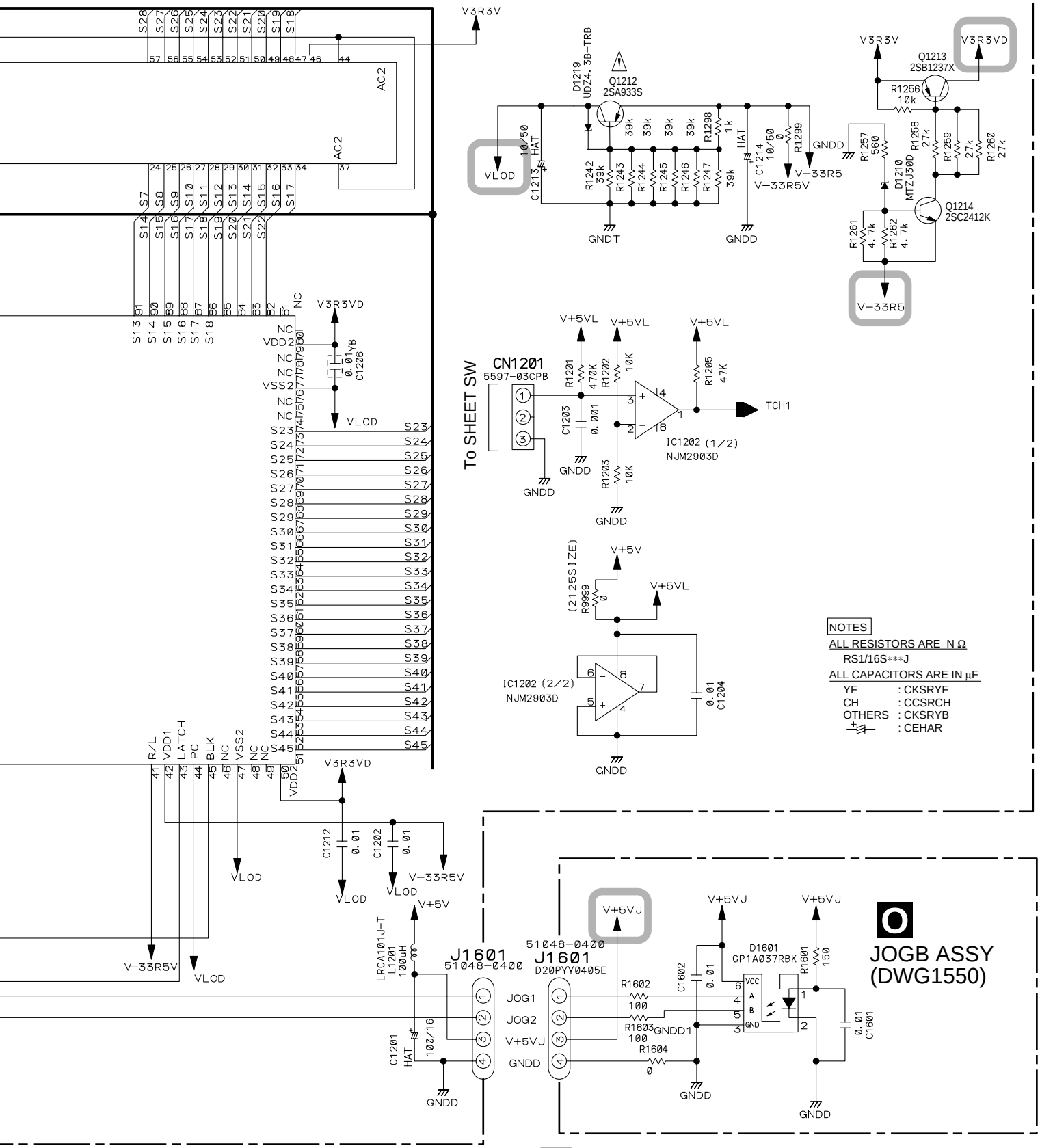




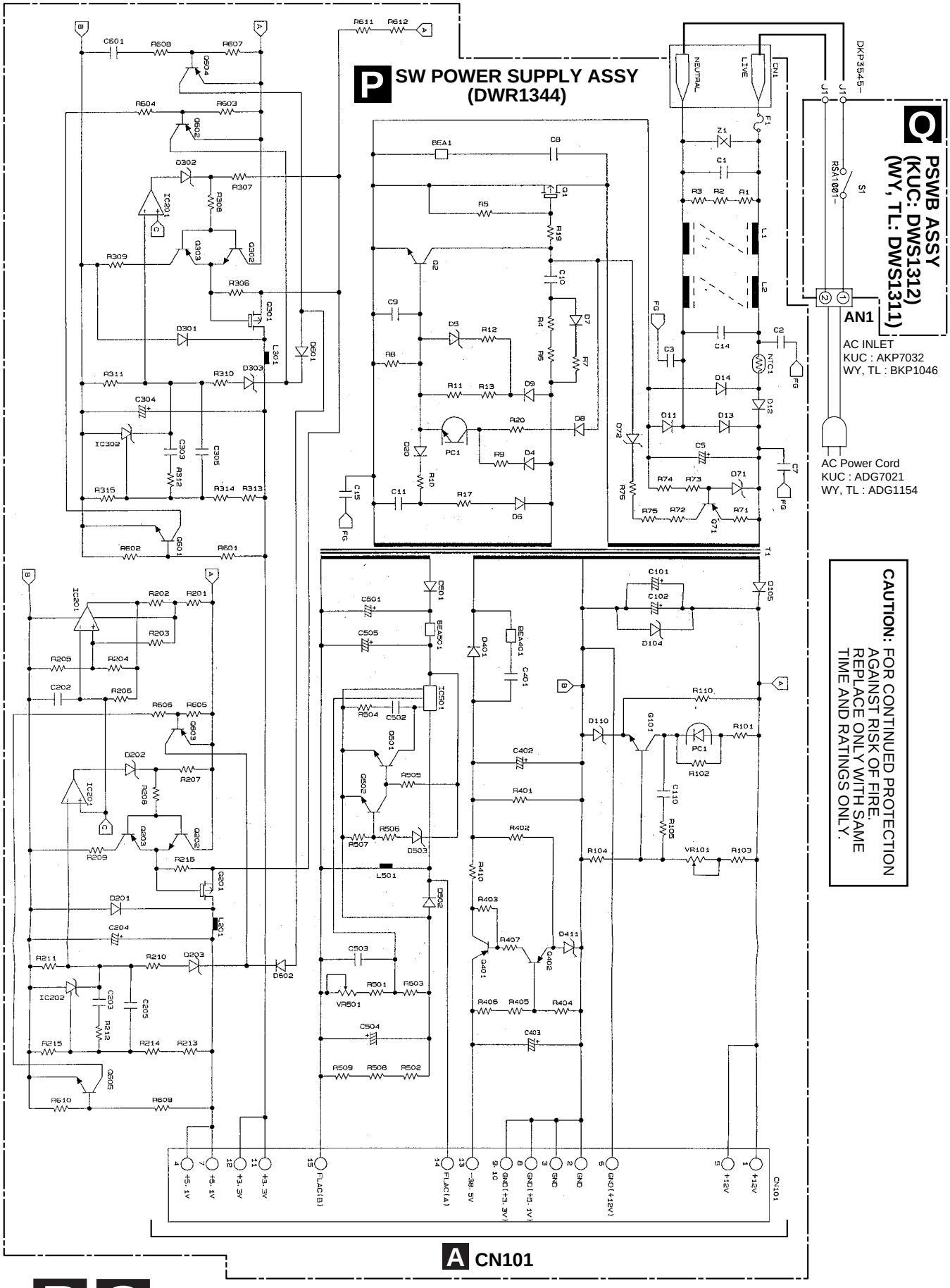
: The power supply is shown with the marked box.

3.11 JFLB and JOGB ASSYS




V3R3V
V3R3VD
V+5VL
V+5V
V+5VJ
VLOD
GNDD
GNDT
V−33R5
V−33R5V
AC2
CN1201
5597−03CPB
To SHEET SW
TCH1
IC1202 (1/2)
NJM2903D
IC1202 (2/2)
NJM2903D
Q1212
2SA933S
Q1213
2SB1237X
Q1214
2SC2412K
D1219
UDZ4.3B−TRB
D1210
MTZJ30D
D1601
GP1A037RBK
J1601
51048−0400
D20PYY0405E
LRCA101J−T
L1201
100uH
JOG1
JOG2
V+5VJ
GNDD1
(2125SIZE)
R9999
0
NOTES
ALL RESISTORS ARE N Ω
RS1/16S***J
ALL CAPACITORS ARE IN µF
YF : CKSRYF
CH : CCSRCH
OTHERS : CKSRYB
: CEHAR
JOGB ASSY
(DWG1550)
: The power supply is shown with the marked box.

3.12 SW POWER SUPPLY and PSWB ASSYS



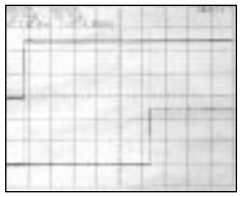
■ Waveforms

A 2/4 MAIN ASSY

Mode: Power ON

① **IC201- 63pin (XRST)**
V: 2V/div. H: 20mS/div.

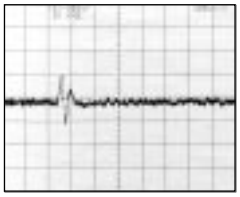
② **IC201- 19pin (XSRST)**
V: 2V/div. H: 20mS/div.



A 1/4 MAIN ASSY

Mode: 1trak Jump

④ **IC800- 18pin (TE)**
V: 500mV/div. H: 500µS/div.

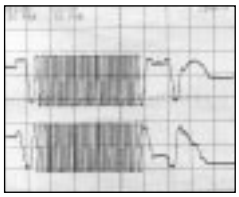


A 1/4 MAIN ASSY

Mode: Search

⑫ **IC950- 8pin (ST1+)**
V: 5V/div. H: 20mS/div.

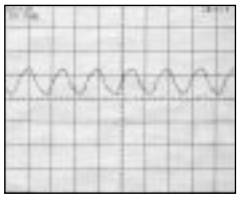
⑬ **IC950- 6pin (ST2+)**
V: 5V/div. H: 20mS/div.



A 3/4 MAIN ASSY

Mode: Play

⑰ **IC604- 3pin (VCOOUT)**
V: 2V/div. H: 20nS/div.

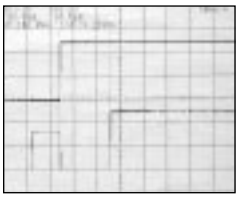


A 2/4 MAIN ASSY

Mode: Power ON

① **IC201- 63pin (XRST)**
V: 2V/div. H: 50mS/div.

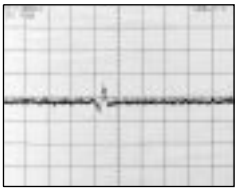
③ **IC201- 18pin (XFRST)**
V: 2V/div. H: 50mS/div.



A 1/4 MAIN ASSY

Mode: Focus UP/Down

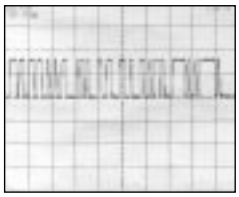
⑥ **IC800- 22pin (FE)**
V: 200mV/div. H: 500µS/div.



A 3/4 MAIN ASSY

Mode: Play

⑭ **IC601- 162pin (SDATA)**
V: 2V/div. H: 1µS/div.

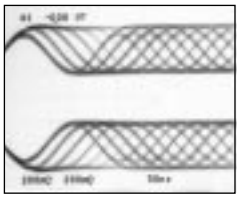


A 1/4 MAIN ASSY

Mode: 3100rpm/ Inside Play

⑱ **IC700- 8pin (ARF)**
V: 200mV/div. H: 50nS/div.

⑲ **IC700- 9pin (NARF)**
V: 200mV/div. H: 50nS/div.

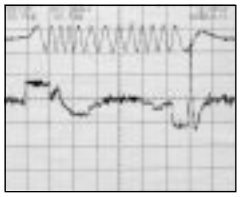


A 1/4 MAIN ASSY

Mode: Search

④ **IC800- 18pin (TE)**
V: 1V/div. H: 200µS/div.

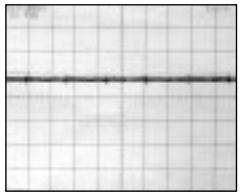
⑤ **IC950- 11pin (T+)**
V: 500mV/div. H: 200µS/div.



A 1/4 MAIN ASSY

Mode: Play

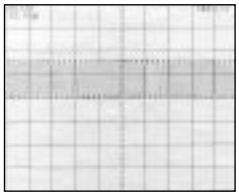
⑩ **IC700- 6pin (TEDRV)**
V: 200mV/div. H: 5µS/div.



A 3/4 MAIN ASSY

Mode: Play

⑮ **IC601- 182pin (BCK)**
V: 2V/div. H: 500nS/div.

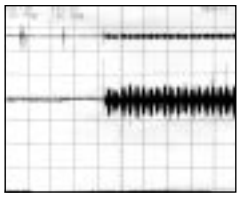


A 1/4 MAIN ASSY

Mode: Focus

⑥ **IC800- 22pin (FE)**
V: 1V/div. H: 50mS/div.

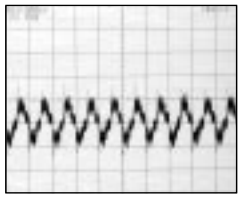
⑦ **IC950- 13pin (F+)**
V: 1V/div. H: 50mS/div.



A 1/4 MAIN ASSY

Mode: Play

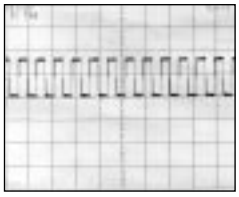
⑪ **IC700- 5pin (FEDRV)**
V: 100mV/div. H: 20mS/div.



A 3/4 MAIN ASSY

Mode: Play

⑯ **IC601- 168pin (LRCK)**
V: 2V/div. H: 5µS/div.



■ Waveforms (1/4)

A 1/4 MAIN ASSY

IC700 (MN677061ZY)

Pin No.	Voltage (V)
1	2 2
2	1 65
3	1 65
4	3 3
5	1 to 2.2
6	1 65
7	0
8	1 65
9	1 65
10	1 65
11	1 65
12	1 65
13	1 65
14	3 3
15	1 65
16	0
17	0
18	2 2
19	1 2
20	0
21	1
22	1
23	1 65
24	0
25	0
26	0
27	3 3
28	0
29	0
30	0
31	0
32	0
33	0
34	1 65
35	1
36	0 to 1.65
37	0
38	3 3
39	0
40	0
41	0
42	1 65
43	1 65 to 3 3
44	1 65 to 3 3
45	0
46	3 3
47	0 to 3.3
48	0 to 3.3
49	0
50	0
51	0
52	0 to 3.3
53	0 to 3.3
54	0
55	0
56	0
57	0
58	2 5
59	0
60	0
61	0 to 3.3
62	0 to 3.3
63	0 to 3.3
64	0
65	0
66	0
67	0
68	0
69	0 to 3.3
70	0 to 3.3
71	0 to 3.3
72	0
73	0
74	0
75	3 3
76	0 to 3.3
77	0
78	0
79	0
80	0 to 3.3
81	0
82	3 3
83	0
84	0 to 5
85	5
86	0 to 5
87	0 to 3.3
88	0 to 5
89	0 to 5
90	0 to 3.3

IC700 (MN677061ZY)

Pin No.	Voltage (V)
91	0 to 3.3
92	0
93	0
94	0 to 3.3
95	0
96	2 5
97	1 65
98	1 65
99	1 65
100	2 2

IC701 (TC7WU04FU)

Pin No.	Voltage (V)
1	0 to 3.3
2	0 to 3.3
3	3.3
4	0
5	0
6	0.5 to 2.5
7	0 to 3.3
8	3.3

IC710 (TC7SET08FU)

Pin No.	Voltage (V)
1	0
2	0
3	0
4	0
5	3 3

IC711(TC7SET32FU)

Pin No.	Voltage (V)
1	0
2	0
3	0
4	0
5	3 3

IC800 (AN8702NFH)

Pin No.	Voltage (V)
1	5
2	0
3	0
4	3.3
14	0 to 5
15	1.2
16	0
17	1.65
18	1 to 2
19	1.65
20	2 to 2.2
21	1.65
22	1.65
23	0
24	1.65
25	3.3
26	0
27	2.2
28	5
29	1.65
30	1.65 to 2.2
31	1.65 to 2.2
32	1.8
33	0
34	0
35	0
36	3.3
37	0
38	0
39	0 to 3 3
40	0
41	3.3
42	1.2
43	1.65
44	2.2
45	2.2
46	2.2
47	1.65 to 2.2
48	1.65 to 2.2
49	2.2
50	2.2
51	2.2
52	2.2
53	2.2
54	2.2
55	5
56	2.2
57	2.2
58	2.2
59	2.2
60	2.2
61	0
62	2.2
63	2.2
64	1.651

IC850 (BA10358F)

Pin No.	Voltage (V)
1	1 65
2	2 2
3	2 2
4	0
5	2 2
6	2 2
7	2 2
8	5

IC900 (LB11975)

Pin No.	Voltage (V)
1	0 to 12
2	0 to 12
3	0 to 12
4	0 to 12
5	0
6	0
7	0
8	12
9	12
10	0
11	1.65 to 3.3
12	1.65 to 3.3
13	0
14	1.65
15	14.65
16	5
17	0
18	0
19	1.65
20	1.65
21	1.65
22	1.65
23	1.65
24	1.65
25	5
26	5
27	5
28	1.65
29	0
30	1.65
31	1.65
32	1.65
33	1.65
34	1.65
35	0
36	1.65
37	0
38	0

IC950(LA6562)

Pin No.	Voltage (V)
1	5
2	5
3	12
4	5
5	5
6	7 5
7	3 5
8	6 5
9	5
10	0
11	2 to 3.3
12	2 to 3.3
13	1 65 to 3 3
14	1 65 to 3 3
15	5
16	1 to 2
17	1 65
18	1 65
19	1 65
20	1 65
21	1 65
22	1 65
23	1 65
24	1 65
25	5
26	5
27	5
28	1 65
29	0
30	1 65
31	1 65
32	1 65
33	1 65
34	1 65
35	0
36	1 65
37	0
38	0

A 2/4 MAIN ASSY

IC100 (PQ2TZ15)

Pin No.	Voltage (V)
I 1	5
2	5
3	2 5
4	0
5	0

IC150 (PQ1R33)

Pin No.	Voltage (V)
1	5
2	0
3	1.2
4	3.3
5	0
6	5

IC202(BR24C64F)

Pin No.	Voltage (V)
1	0
2	0
3	0
4	0
5	5
6	5
7	0
8	5

IC203(TC74HC4053AFT

Pin No.	Voltage (V)
1	5
2	0 to 5
3	5
4	0 to 5
5	0 to 5
6	0
7	0
8	0
9	0
10	0
11	0
12	0 to 5
13	5
14	0 to 5
15	0 to 5
16	5

IC204 (TC7SET08FU)

Pin No.	Voltage (V)
1	0 to 3 3
2	5
3	0
4	0 to 5
5	5

IC205 (TC74VHC08FT)

Pin No.	Voltage (V)
1	0
2	0
3	0
4	0 to 5
5	3 3
6	0 to 3.3
7	0
8	0 to 3.3
9	3 3
10	3 3
11	0 to 3.3
12	0 to 5
13	3 3
14	3 3

IC206(PQ1R33)

Pin No.	Voltage (V)
1	5
2	0
3	1 2
4	3 3
5	0
6	5

■ Waveforms (2/4)

A 2/4 MAIN ASSY

IC300 (PD3431A9)

Pin No.	Voltage (V)
1	3 3
2	0 to 5
3	0
4	0
5	0
6	0 to 5
7	0 to 5
8	0
9	0
10	0
11	0
12	0 to 5
13	5
14	0 to 3.3
15	5
16	0 to 5
17	0
18	5
19	0 to 5
20	0 to 5
21	0 to 5
22	0
23	0
24	0
25	0
26	0 to 5
27	0 to 5
28	0 to 5
29	0 to 5
30	0 to 5
31	0 to 5
32	0 to 5
33	0 to 5
34	5
35	0 to 5
36	0 to 5
37	0 to 5
38	0 to 5
39	0 to 5
40	0 to 5
41	0
42	0
43	0
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	0 to 5
56	0 to 5
57	0
58	0
59	0
60	0 to 5
61	0
62	5
63	0 to 5
64	0
65	0
66	1 65 to 3 3
67	1 65 to 3 3
68	5
69	0
70	0 to 5
71	0 to 5
72	0
73	5
74	0
75	5
76	3 3
77	3 3
78	1 65
79	1 65
80	1 65
81	0 to 3.3
82	0
83	0 to 5
84	0 to 5
85	0 to 5
86	0
87	0 to 3.3
88	0 to 3.3
89	0 to 5
90	0

IC300 (PD3431A9)

Pin No.	Voltage (V)
91	0
92	0
93	0 to 3.3
94	0 to 3.3
95	0 to 3.3
96	0 to 3.3
97	0 to 3.3
98	0 to 5
99	5
100	0 to 3.3

IC600 (M51957BFP)

Pin No.	Voltage (V)
1	0
2	1.2
3	0
4	0
5	1.2
6	5
7	5
8	0

IC201 (PD3432A9)

Pin No.	Voltage (V)
1	3 3
2	0 to 5
3	0 to 5
4	0 to 5
5	0 to 5
6	0 to 5
7	0 to 5
8	0 to 5
9	0 to 5
10	0
11	0
12	0 to 5
13	0 to 5
14	0 to 5
15	0 to 5
16	0 to 5
17	0 to 5
18	0 to 5
19	0 to 5
20	0 to 5
21	0
22	0
23	0
24	5
25	0 to 5
26	0
27	0 to 5
28	0 to 5
29	0 to 5
30	0 to 5
31	0 to 5
32	0 to 5
33	0 to 5
34	0 to 5
35	5
36	0 to 5
37	0 to 5
38	0 to 5
39	0 to 5
40	0 to 5
41	0
42	0
43	0
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	0 to 5
56	0 to 5
57	0
58	0
59	0 to 5
60	0 to 3.3
61	0
62	5
63	0 to 5
64	0
65	0
66	1 65 to 3 3
67	1 65 to 3 3
68	5
69	0
70	0 to 5
71	0 to 5
72	0
73	5
74	0
75	5

IC201 (PD3432A9)

Pin No.	Voltage (V)
76	5
77	5
78	2.5
79	2.5
80	0
81	0
82	0
83	0
84	0
85	0
86	0
87	0 to 5
88	0 to 5
89	0 to 3.3
90	0
91	0
92	0
93	0 to 5
94	0 to 5
95	0 to 5
96	0 to 5
97	5
98	0
99	0 to 5
100	0 to 3.3

A 3/4 MAIN ASSY

IC10 (BA178M05EP)

Pin No.	Voltage (V)
1	12
2	0
3	5

IC11(PE8001A)

Pin No.	Voltage (V)
1	0 to 5
2	0 to 5
3	0 to 5
4	0
5	0 to 5
6	0
7	0
8	5
9	5
10	0
11	0
12	0
13	0
14	0
15	5
16	0
17	0
18	0
19	0
20	5
21	0 to 5
22	0 to 5
23	0
24	0
25	0
26	0 to 5
27	0 to 5
28	0 to 5

IC12 (TC74HCT7007AF)

Pin No.	Voltage (V)
1	0 to 3.3
2	0 to 5
3	0 to 3.3
4	0 to 5
5	0 to 3.3
6	0 to 5
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	5

IC13 (TC7WU04FU)

Pin No.	Voltage (V)
1	0 to 5
2	0 to 5
3	0
4	0
5	0
6	0 to 5
7	0 to 5
8	5

IC606 (K4S641632D)

Pin No.	Voltage (V)
1	3.3
2	0 to 3.3
3	3.3
4	0 to 3.3
5	0 to 3.3
6	0
7	0 to 3.3
8	0 to 3.3
9	3.3
10	0 to 3.3
11	0 to 3.3
12	0
13	0 to 3.3
14	3.3
15	0
16	0 to 3.3
17	0 to 3.3
18	0 to 3.3
19	0
20	0
21	0
22	0 to 3.3
23	0 to 3.3
24	0 to 3.3
25	0 to 3.3
26	0 to 3.3
27	3.3
28	0
29	0 to 3.3
30	0 to 3.3
31	0 to 3.3
32	0 to 3.3
33	0 to 3.3
34	0 to 3.3
35	0 to 3.3
36	0
37	2 to 2.2
38	0 to 3.3
39	0
40	0
41	0
42	0 to 3.3
43	3.3
44	0 to 3.3
45	0 to 3.3
46	0
47	0 to 3.3
48	0 to 3.3
49	3.3
50	0 to 3.3
51	0 to 3.3
52	0
53	0 to 3.3
54	0

IC607 (PQ2TZ15)

Pin No.	Voltage (V)
1	3.3
2	3.3
3	2.5
4	0
5	0

IC608(TC7WU04FU)

Pin No.	Voltage (V)
1	0 5 to 3.3
2	0 to 3.3
3	0
4	0
5	0 to 3.3
6	0 to 3.3
7	0 to 3.3
8	3 3

IC609 (NJM78L05UA)

Pin No.	Voltage (V)
1	5
2	0
3	12

IC610 (TC7SH08FU)

Pin No.	Voltage (V)
1	5
2	3.3
3	0
4	3.3
5	3.3

IC611 (TC7SU04FU)

Pin No.	Voltage (V)
1	0
2	1.2 to 1 65
3	0
4	0 to 3 3
5	3.3

IC612 (TC7WU04FU)

Pin No.	Voltage (V)
1	0 to 3.3
2	0 to 3.3
3	0
4	0
5	0
6	0 to 3.3
7	0 to 3.3
8	3.3

IC602 (PE9012A)

Pin No.	Voltage (V)
1	0
2	0

IC604 (TLC2932IPW)

Pin No.	Voltage (V)
1	5
2	0
3	0 to 5
4	0
5	0
6	0
7	0
8	0
9	5
10	0
11	0
12	3.3
13	2.5
14	5

IC605(TC7WT241FU)

Pin No.	Voltage (V)
1	0
2	0
3	3.3 to 5
4	0
5	0 to 3.3
6	0
7	0
8	5

■ Voltage (3/4)

A 3/4 MAIN ASSY

IC601 (XC2S50-5PQ208C)

Pin No.	Voltage (V)
1	0
2	0
3	0 to 3.3
4	0 to 3.3
5	0 to 3.3
6	0 to 3.3
7	0 to 3.3
8	0 to 3.3
9	0 to 3.3
10	0 to 3.3
11	0
12	3.3
13	2.5
14	0 to 3.3
15	0 to 3.3
16	0 to 3.3
17	0 to 3.3
18	0 to 3.3
19	0
20	0 to 3.3
21	0 to 3.3
22	0 to 3.3
23	0 to 3.3
24	0 to 3.3
25	0
26	3.3
27	0 to 3.3
28	2.5
29	0 to 3.3
30	0 to 3.3
31	0 to 3.3
32	0
33	0 to 3.3
34	0 to 3.3
35	0 to 3.3
36	0 to 3.3
37	0 to 3.3
38	2.5
39	3.3
40	0
41	0 to 3.3
42	0 to 3.3
43	0 to 3.3
44	0 to 3.3
45	0 to 3.3
46	0 to 3.3
47	0 to 3.3
48	0 to 3.3
49	0 to 3.3
50	0
51	0
52	0
53	3.3
54	3.3
55	2.5
56	0
57	0 to 5
58	0 to 5
59	0 to 5
60	0 to 5
61	0 to 5
62	0 to 5
63	0 to 5
64	0
65	3.3
66	2.5
67	0 to 5
68	0 to 5
69	0 to 5
70	0 to 5
71	0 to 5
72	0
73	0 to 5
74	0
75	0
76	2.5
77	0 to 3.3
78	3.3
79	0
80	0 to 3.3
81	0
82	0
83	0 to 3.3
84	0 to 3.3
85	0
86	0
87	0 to 5
88	0 to 5
89	0 to 5
90	0

IC601 (XC2S50-5PQ208C)

Pin No.	Voltage (V)
91	2.5
92	3.3
93	0
94	0
95	0
96	0
97	0
98	0
99	0
100	0
101	0
102	0 to 3.3
103	0
104	3.3
105	3.3
106	3.3
107	3.3
108	0 to 3.3
109	0 to 3.3
110	0 to 3.3
111	0 to 3.3
112	0 to 3.3
113	0 to 3.3
114	0 to 3.3
115	0 to 3.3
116	0
117	3.3
118	2.5
119	0 to 3.3
120	0 to 3.3
121	0 to 3.3
122	0 to 3.3
123	0 to 3.3
124	0
125	0 to 3.3
126	0 to 3.3
127	0 to 3.3
128	2.5
129	0
130	3.3
131	0
132	0 to 3.3
133	0 to 3.3
134	0 to 3.3
135	0 to 3.3
136	0 to 3.3
137	0
138	0 to 3.3
139	0 to 3.3
140	0 to 3.3
141	0 to 3.3
142	0 to 3.3
143	2.5
144	3.3
145	0
146	0
147	0
148	0
149	0
150	0
151	0
152	0
153	0 to 3.3
154	0
155	0 to 3.3
156	3.3
157	0
158	0
159	0
160	3.3
161	3.3
162	0 to 3.3
163	0 to 3.3
164	0 to 3.3
165	0 to 3.3
166	0 to 3.3
167	0 to 3.3
168	0 to 3.3
169	0
170	3.3
171	2.5
172	0
173	0
174	0
175	0
176	0 to 3.3
177	0
178	0 to 5
179	0 to 5
180	0

IC601 (XC2S50-5PQ208C)

Pin No.	Voltage (V)
181	0
182	0 to 3 3
183	0
184	3.3
185	0 to 3 3
186	2.5
187	0 to 5
188	0 to 5
189	0 to 5
190	0
191	0 to 5
192	0 to 5
193	0 to 5
194	0 to 5
195	0 to 5
196	2.5
197	3.3
198	0
199	0 to 5
200	0 to 5
201	0 to 5
202	0 to 5
203	0 to 5
204	0 to 5
205	0
206	0 to 3 3
207	0
208	3.3

A 4/4 MAIN ASSY

IC401(XCA56367PV150

Pin No.	Voltage (V)
1	0 to 3.3
2	0 to 3.3
3	0 to 3.3
4	0 to 3.3
5	0 to 3.3
6	0 to 3.3
7	0 to 3.3
8	3.3
9	0 to 3.3
10	0 to 3.3
11	0 to 3.3
12	0 to 3.3
13	1.8
14	0 to 3.3
15	0 to 3.3
16	3.3
17	0 to 3.3
18	1.8
19	0
20	3.3
21	0
22	0
23	0 to 3.3
24	3.3
25	3.3
26	0
27	0 to 3.3
28	0 to 3.3
29	0 to 3.3
30	0 to 3.3
31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	3.3
39	0
40	0
41	0
42	0
43	0
44	3.3
45	1.8
46	0 to 3.3
47	0
48	0
49	3.3
50	0
51	0
52	0
53	0
54	0
55	0 to 3.3
56	1.8
57	3.3
58	0
59	0
60	0
61	0
62	0
63	0
64	0 to 3.3
65	3.3
66	0
67	0 to 3.3
68	0 to 3.3
69	0
70	0
71	0 to 3.3
72	0 to 3.3
73	0 to 3.3
74	3.3
75	0
76	0 to 3.3
77	0 to 3.3
78	0 to 3.3
79	0 to 3.3
80	3.3
81	0

IC401(XCA56367PV15)

Pin No.	Voltage (V)
82	0 to 3.3
83	0 to 3.3
84	0
85	0
86	3.3
87	0
88	0
89	0
90	0
91	1.8
92	0
93	0
94	0
95	3.3
96	0
97	0
98	0 to 3.3
99	0 to 3.3
100	0 to 3.3
101	0
102	0
103	3 3
104	0
105	0
106	0
107	0
108	0
109	0
110	0 to 3.3
111	3.3
112	0
113	0 to 3.3
114	0 to 3.3
115	0 to 3.3
116	0 to 3.3
117	0 to 3.3
118	0 to 3.3
119	3.3
120	0
121	0 to 3.3
122	0 to 3.3
123	0 to 3.3
124	0 to 3.3
125	0 to 3.3
126	1.8
127	0
128	0 to 3.3
129	3.3
130	0
131	0 to 3.3
132	0 to 3.3
133	0 to 3.3
134	3.3
135	3.3
136	3.3
137	3.3
138	0
139	0
140	3.3
141	3.3
142	3.3
143	0 to 3.3
144	0 to 3.3

IC402(TC7WU04FU)

Pin No.	Voltage (V)
1	0 to 3.3
2	0 to 3.3
3	0
4	0
5	3 3
6	0 to 3.3
7	0 to 3.3
8	3 3

IC403 (TC7SET08FU)

Pin No.	Voltage (V)
1	0 to 3.3
2	5
3	0
4	0 to 5
5	5

IC404 (MM1561JF)

Pin No.	Voltage (V)
1 1.8	
2 0	
3 0	
4 0.5	
5 3.3	
6 0	
7 3.3	

IC405 (TC74VHC541FT

Pin No.	Voltage (V)
1	0
2	0
3	0
4	5
5	0 to 5
6	0 to 5
7	0 to 5
8	0 to 5
9	0 to 5
10	0
11	3.3
12	0 to 3 3
13	0 to 3 3
14	0 to 3 3
15	3.3

IC406 (TC7SU04F)

Pin No.	Voltage (V)
1	0 to 5
2	0 to 5
3	0
4	0 to 3 3
5	3.3

IC407 (TC7S04FU)

Pin No.	Voltage (V)
1	0
2	0 to 3.3
3	0
4	0 to 3.3
5	3 3

IC506 (TC7SU04F)

Pin No.	Voltage (V)
1	0 to 5
2	0 to 5
3	0
4	0 to 3.3
5	3.3

■ Voltage (4/4)

A 4/4 MAIN ASSY

IC501(XCA56367PV150

Pin No.	Voltage (V)
1	0 to 3 3
2	0 to 3 3
3	0 to 3 3
4	0 to 3 3
5	0 to 3 3
6	0 to 3 3
7	0 to 3 3
8	3.3
9	0
10	0 to 3 3
11	0 to 3 3
12	0 to 3 3
13	0 to 3 3
14	0 to 3 3
15	0 to 3 3
16	0 to 3 3
17	0
18	1.8
19	0
20	3.3
21	0
22	0
23	3.3
24	0 to 3 3
25	3.3
26	0
27	0
28	0
29	0
30	0
31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	3.3
39	0
40	0
41	0
42	0
43	0
44	0 to 3 3
45	1.8
46	0
47	0
48	0
49	3.3
50	0
51	0
52	0
53	0
54	0
55	0 to 3 3
56	1.8
57	3.3
58	0
59	0
60	0
61	0
62	0
63	0
64	3.3
65	3.3
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	3.3
75	0
76	0
77	0
78	0
79	0
80	3.3
81	0
82	0
83	0
84	0
85	0
86	3.3
87	0
88	0
89	0
90	0

IC501(XCA56367PV150

Pin No.	Voltage (V)
91	1.8
92	0
93	0
94	0
95	3.3
96	0
97	0
98	0
99	0
100	0
101	0
102	0
103	3.3
104	0
105	0
106	0
107	0
108	0
109	0
110	0
111	3.3
112	0
113	0
114	0
115	0
116	0
117	0
118	0
119	3.3
120	0
121	0
122	0
123	0
124	0
125	0
126	1.8
127	0
128	0
129	3.3
130	0
131	0
132	0
133	0
134	0
135	3.3
136	0
137	3.3
138	0
139	0
140	3.3
141	3.3
142	3.3
143	0
144	0

J 1/2 MFLB ASSY

IC1101 (PE5243A)

Pin No.	Voltage (V)
1	5
2	0 to 5
3	0 to 5
4	0 to 5
5	0 to 5
6	0 to 5
7	0 to 5
8	0 to 5
9	0 to 5
10	0 to 5
11	0 to 5
12	0 to 5
13	0
14	0
15	0 to 5
16	5
17	0 to 5
18	0 to 5
19	0 to 5
20	0 to 5
21	0 to 5
22	0 to 5
23	0 to 5
24	0 to 5
25	0
26	0
27	0 to 5
28	0 to 5
29	0 to 5
30	0 to 5
31	0 to 5
32	0 to 5
33	0 to 5
34	5
35	5
36	0 to 5
37	0 to 5
38	0 to 5
39	0 to 5
40	0
41	0 to 5
42	0 to 5
43	0 to 5
44	0 to 5
45	0 to 5
46	5
47	-38.5 to 5
48	-38.5 to 5
49	-38.5 to 5
50	-38.5 to 5
51	-38.5 to 5
52	-38.5 to 5
53	-38.5 to 5
54	-38.5 to 5
55	-38.5 to 5
56	-38.5 to 5
57	-38.5 to 5
58	-38.5 to 5
59	-38.5 to 5
60	-38.5 to 5
61	-38.5 to 5
62	-38.5 to 5
63	-38.5 to 5
64	-38.5 to 5
65	-38.5 to 5
66	-38.5 to 5
67	-38.5 to 5
68	-38.5 to 5
69	-38.5 to 5
70	-38.5 to 5
71	-38.5 to 5
72	-38.5 to 5
73	-38.5 to 5
74	-38.5 to 5
75	-38.5 to 5
76	-38.5 to 5
77	-38.5 to 5
78	-38 5 to 5
79	-38.5 to 5
80	-38.5
81	-38.5 to 5
82	-38.5 to 5
83	-38.5 to 5
84	-38.5 to 5
85	-38.5 to 5
86	-38.5 to 5
87	-38.5 to 5
88	-38.5 to 5
89	-38.5 to 5
90	-38.5 to 5

IC1101 (PE5243A)

Pin No.	Voltage (V)
91	-38.5 to 5
92	-38.5 to 5
93	-38.5 to 5
94	-38.5 to 5
95	-38.5 to 5
96	-38.5 to 5
97	-38.5 to 5
98	-38.5 to 5
99	-38.5 to 5
100	-38.5 to 5

N JFLB ASSY

IC1201 (UPD16036B)

Pin No.	Voltage (V)
1	0
2	3 3
3	0
4	0
5	-38.5
6	0
7	0
8	-38.5 to 3.3
9	-38.5 to 3.3
10	-38 5 to 3.3
11	-38.5 to 3.3
12	-38.5 to 3.3
13	-38.5 to 3.3
14	-38.5 to 3.3
15	-38.5 to 3.3
16	-38.5 to 3.3
17	-38.5 to 3.3
18	-38.5 to 3.3
19	-38.5 to 3.3
20	-38.5 to 3.3
21	-38.5 to 3.3
22	-38.5 to 3.3
23	-38.5 to 3.3
24	0
25	-38.5 to 3.3
26	-38.5 to 3.3
27	-38.5 to 3.3
28	-38.5 to 3.3
29	-38.5 to 3.3
30	-38.5 to 3.3
31	3 3
32	0
33	0
34	-38.5
35	0
36	0
37	-38.5 to -33.5
38	-38.5 to -33.5
39	-38.5
40	0
41	-33.5
42	-33.5
43	-38.5 to -33.5
44	-38.5
45	-38.5 to -33.5
46	0
47	-38.5
48	0
49	0
50	3 3
51	-38.5 to 3.3
52	-38.5 to 3.3
53	-38.5 to 3.3
54	-38.5 to 3.3
55	-38.5 to 3.3
56	-38.5 to 3.3
57	-38.5 to 3.3
58	-38.5 to 3.3
59	-38.5 to 3.3
60	-38.5 to 3.3
61	-38.5 to 3.3
62	-38.5 to 3.3
63	-38.5 to 3.3
64	-38.5 to 3.3
65	-38.5 to 3.3
66	-38.5 to 3.3
67	-38.5 to 3.3
68	-38.5 to 3.3
69	-38.5 to 3.3
70	-38.5 to 3.3
71	-38.5 to 3.3
72	-38.5 to 3.3
73	-38.5 to 3.3
74	0
75	0
76	-38.5
77	0
78	0
79	3 3
80	0
81	0
82	-38.5 to 3.3
83	-38.5 to 3.3
84	-38.5 to 3.3
85	-38.5 to 3.3
86	-38.5 to 3.3
87	-38.5 to 3.3
88	-38.5 to 3.3
89	-38.5 to 3.3
90	-38.5 to 3.3

IC1201 (UPD16036B)

Pin No.	Voltage (V)
91	-38.5 to 3.3
92	-38.5 to 3.3
93	-38.5 to 3.3
94	-38.5 to 3.3
95	-38.5 to 3.3
96	-38.5 to 3.3
97	-38.5 to 3.3
98	-38.5 to 3.3
99	-38.5 to 3.3
100	0

IC1202 (NJM2903D)

Pin No.	Voltage (V)
1	5
2	2 5
3	4 5
4	0
5	0
6	0
7	0
8	5

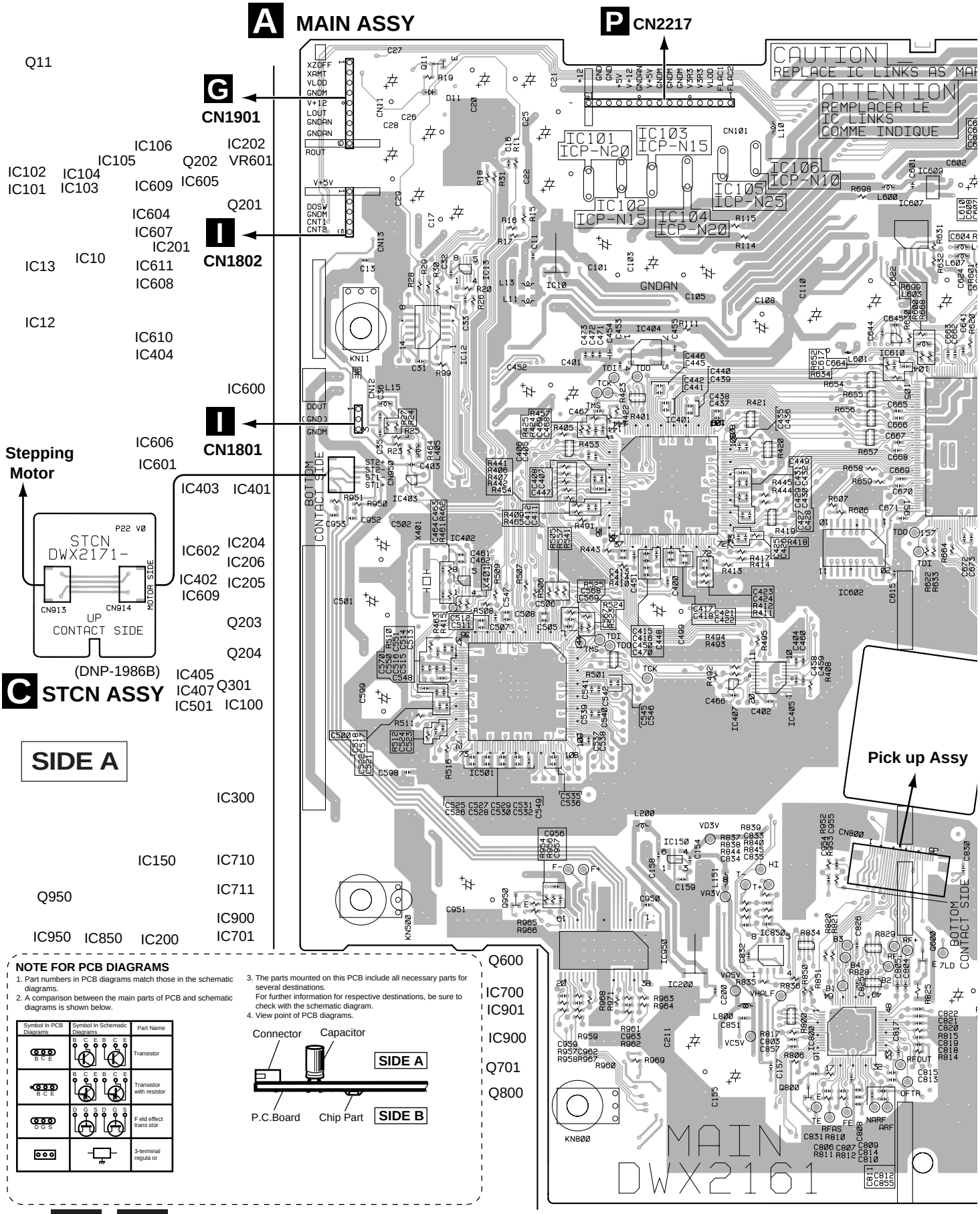
I DOUT ASSY

IC1801 (TC74HCU04AF)

Pin No.	Voltage (V)
1	0
2	0
3	0 to 5
4	0 to 5
5	0 to 5
6	0 to 5
7	0
8	0 to 5
9	0 to 5
10	0 to 5
11	0 to 5
12	0 to 5
13	0 to 5
14	5

4. PCB CONNECTION DIAGRAM

4.1 MAIN, SPCN, STCN, FLRB, SLMB and MMCB ASSYS

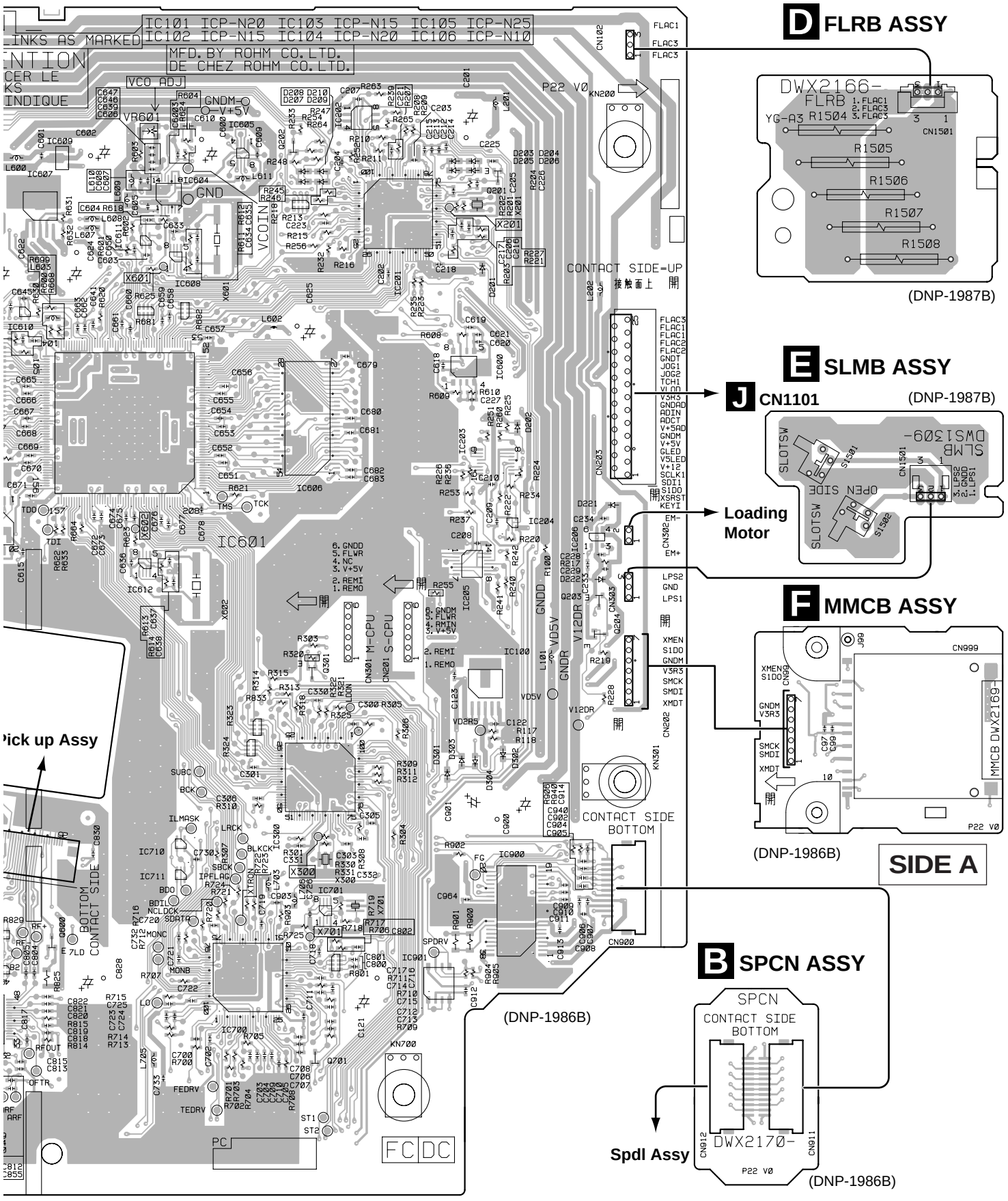


NOTE FOR PCB DIAGRAMS

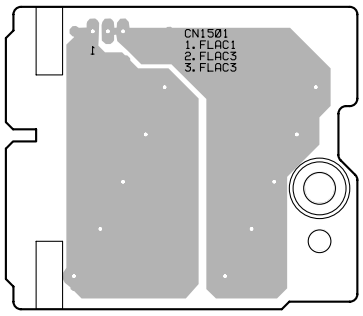
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	F eld effect trans stor
		3-terminal regula or

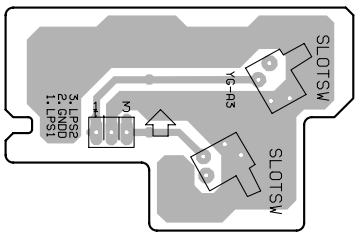
3. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


IC101 ICP-N20 IC103 ICP-N15 IC105 ICP-N25
IC102 ICP-N15 IC104 ICP-N20 IC106 ICP-N10
MFD. BY ROHM CO.LTD.
DE CHEZ ROHM CO.LTD.
D FLRB ASSY
DWX2166-
FLRB
YG-A3
R1504
R1505
R1506
R1507
R1508
CN1501
(DNP-1987B)
E SLMB ASSY
J CN1101
(DNP-1987B)
SLOTSW
OPEN SIDE
DWS1309-
SLMB
Loading Motor
F MMCB ASSY
CN999
MMCB DWX2169-
(DNP-1986B)
SIDE A
B SPCN ASSY
SPCN
CONTACT SIDE BOTTOM
DWX2170-
Spdl Assy
(DNP-1986B)
CONTACT SIDE=UP
接触面上 開
CONTACT SIDE BOTTOM
(DNP-1986B)
Pick up Assy
IC601
M-CPU
S-CPU
FCDC
A B D E F
39

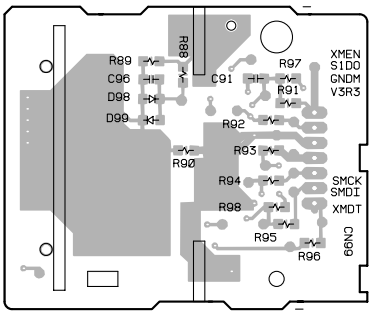
D FLRB ASSY



E SLMB ASSY



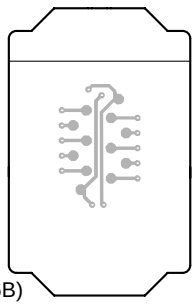
F MMCB ASSY



(DNP-1986B)

SIDE B

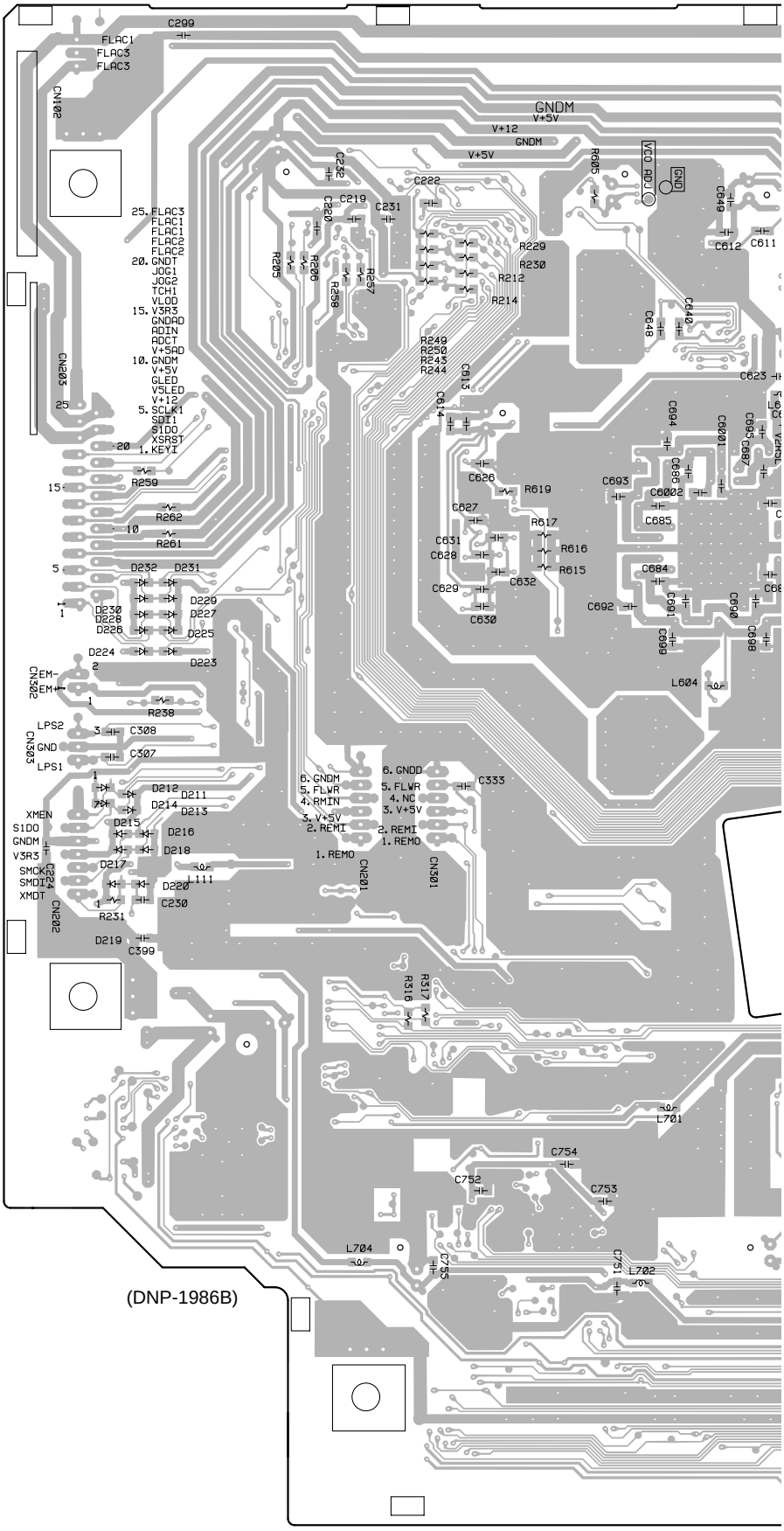
B SPCN ASSY



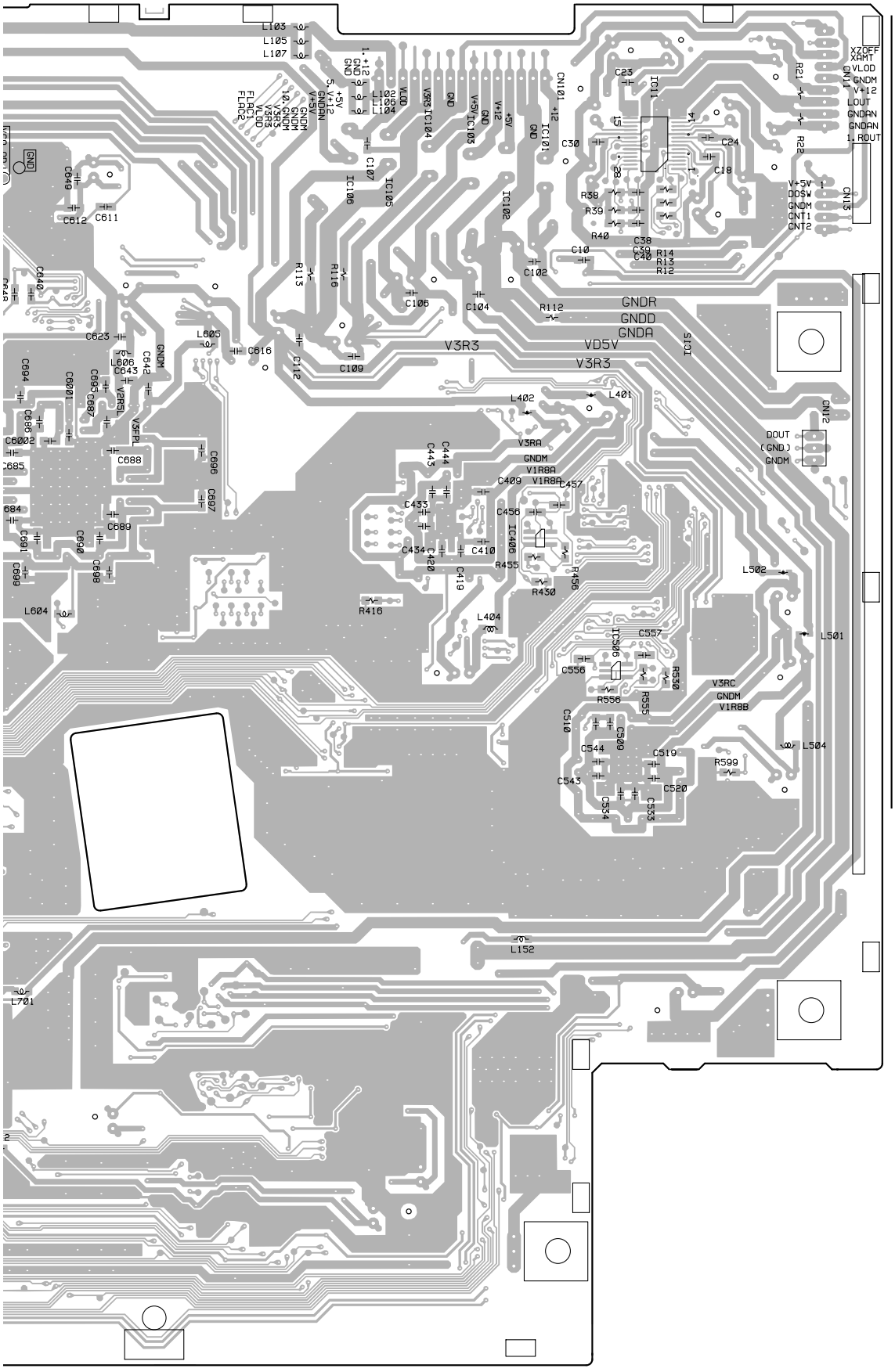
(DNP-1986B)

A MAIN ASSY

• This PCB is a four-layered board.

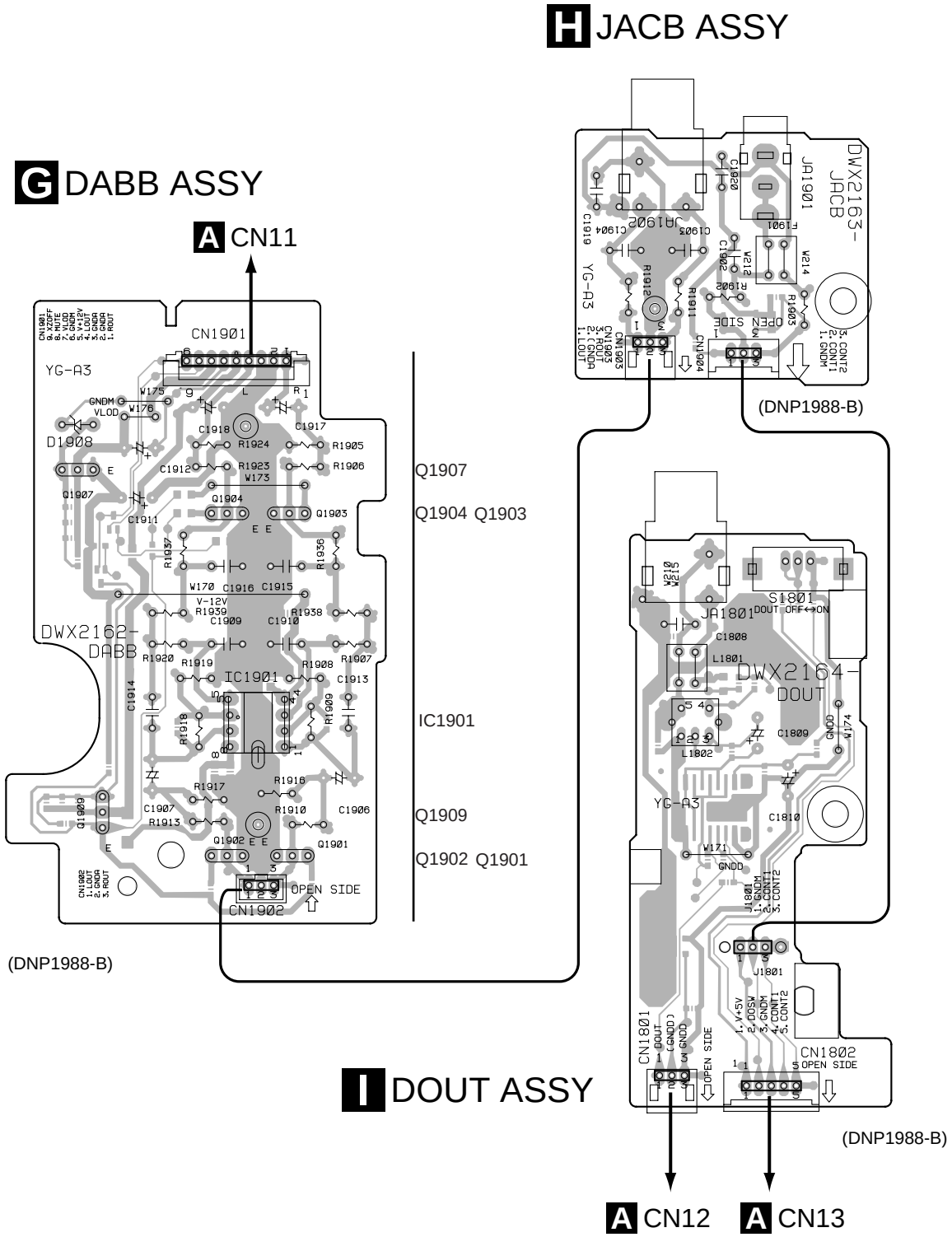


(DNP-1986B)


IC11
IC406
IC506
SIDE B

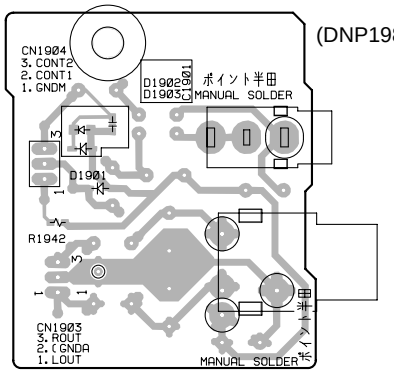
4.2 JABB, JACB and DOUT ASSYS

SIDE A



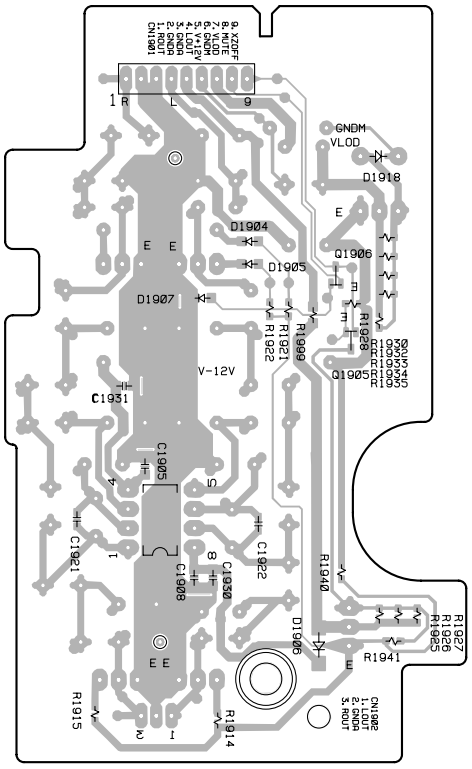
SIDE B

H JACB ASSY



(DNP1988-B)

G DABB ASSY

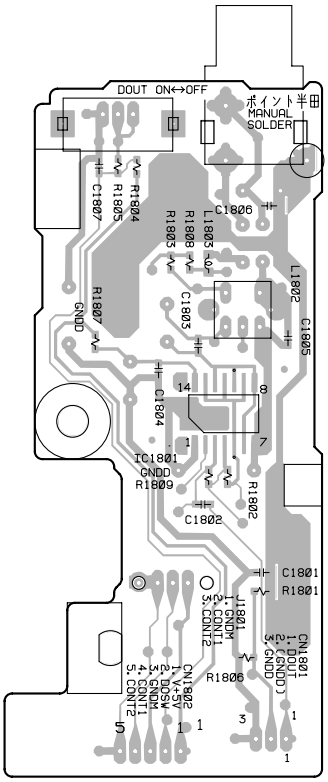


Q1906

Q1905

(DNP1988-B)

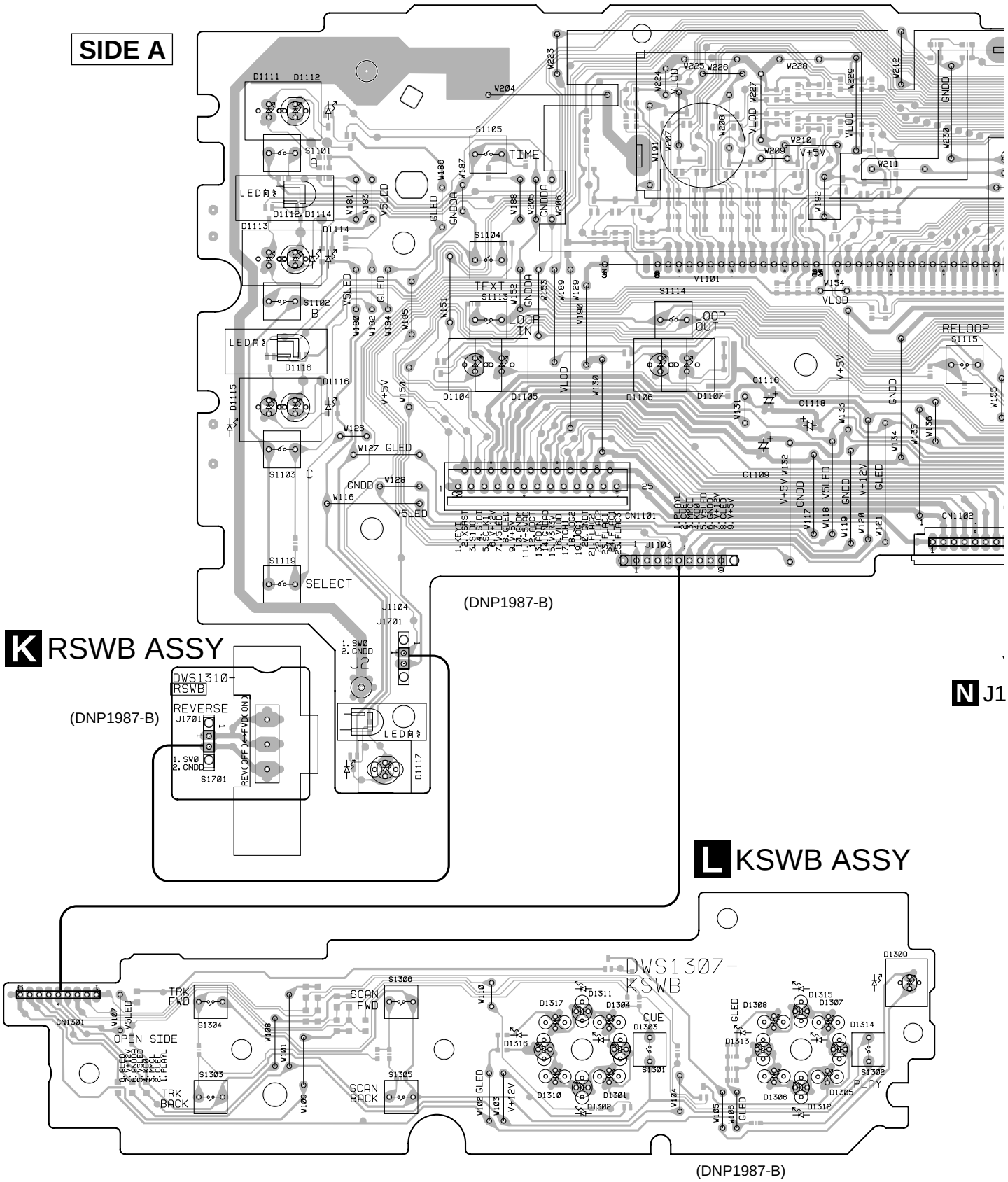
I DOUT ASSY

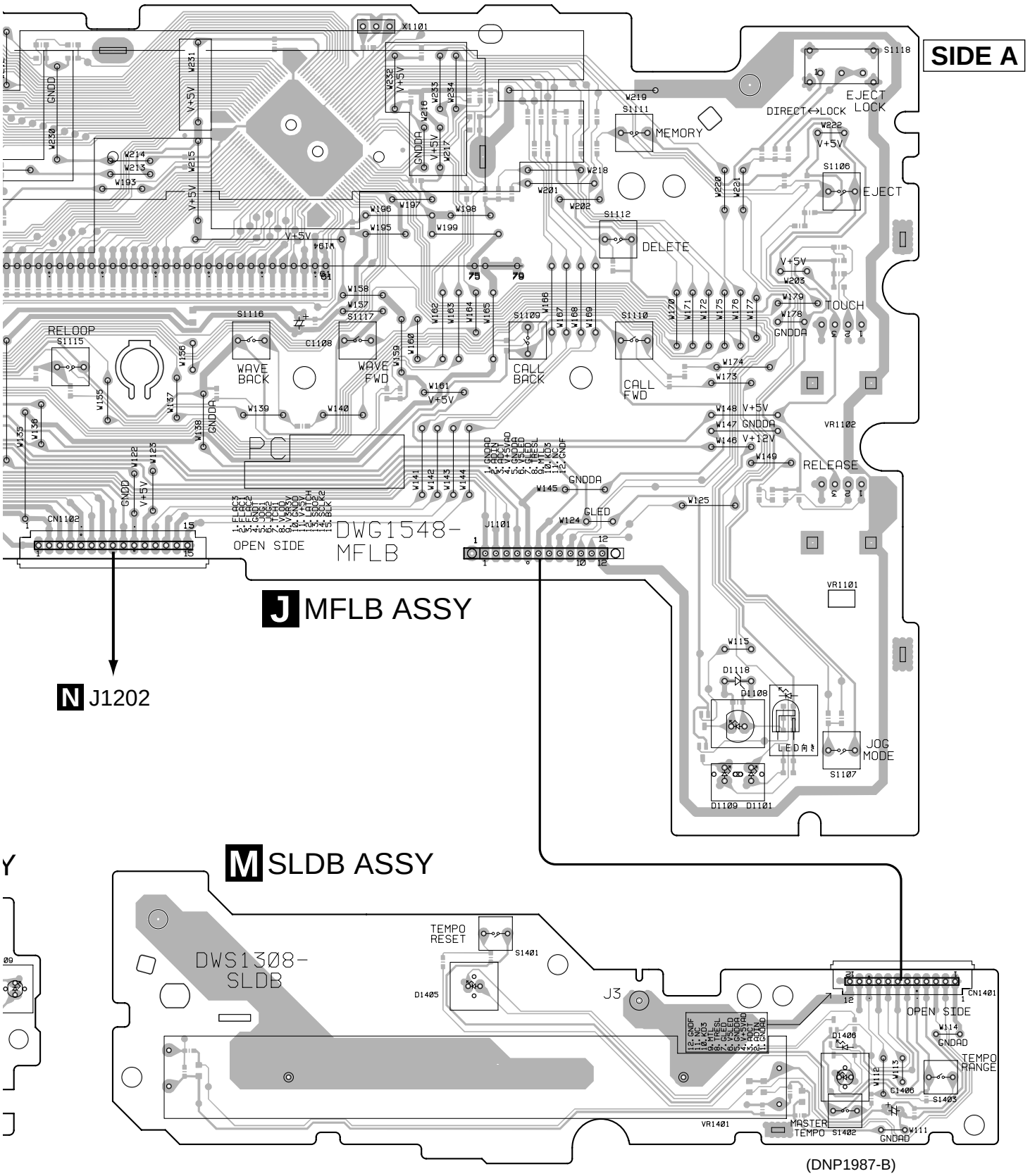


IC1801

(DNP1988-B)

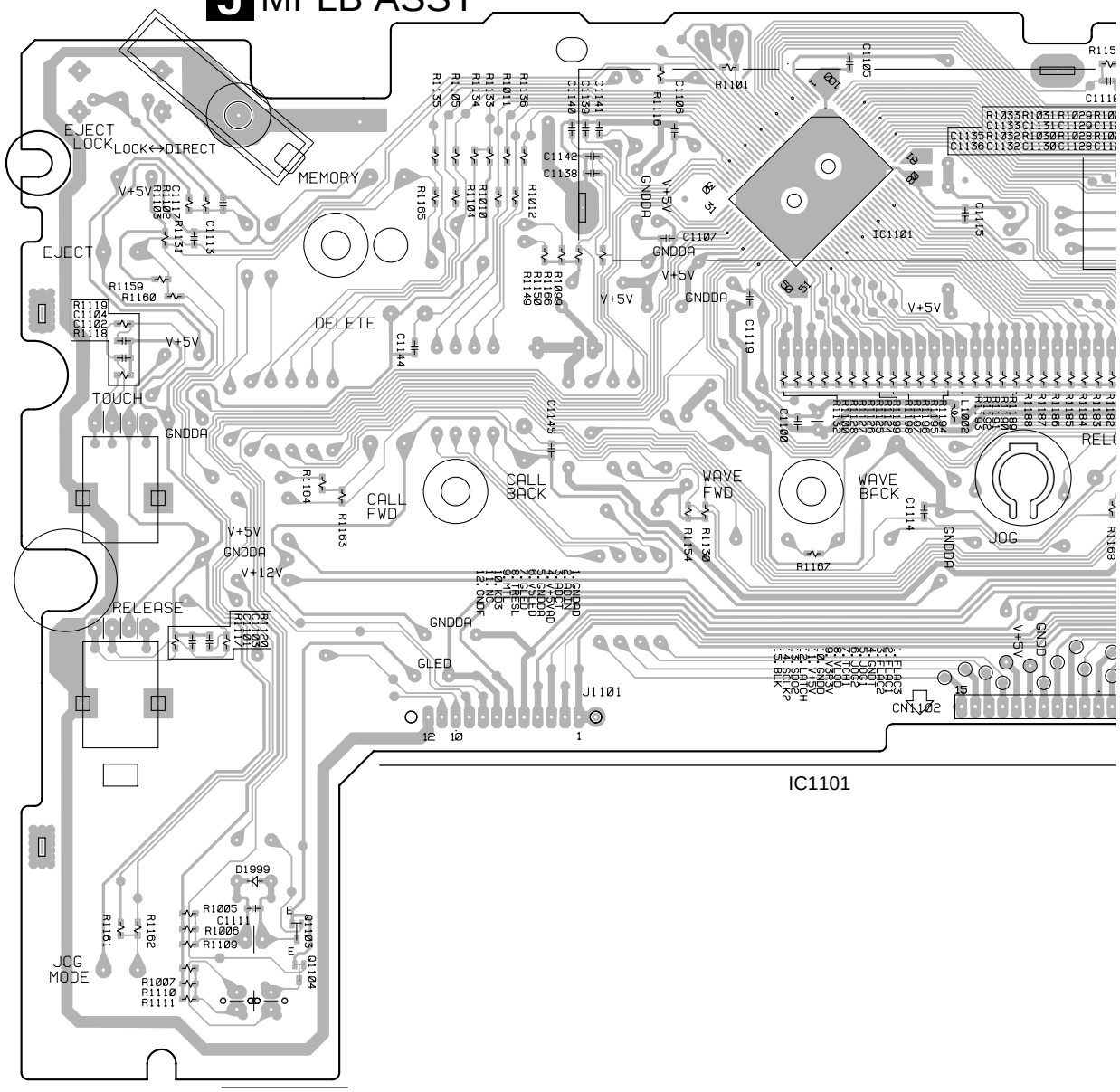
4.3 MFLB, RSWB, KSWB and SLDB ASSYS




SIDE A
J MFLB ASSY
N J1202
M SLDB ASSY
DWG1548-
MFLB
OPEN SIDE
DWS1308-
SLDB
(DNP1987-B)

J MFLB ASSY

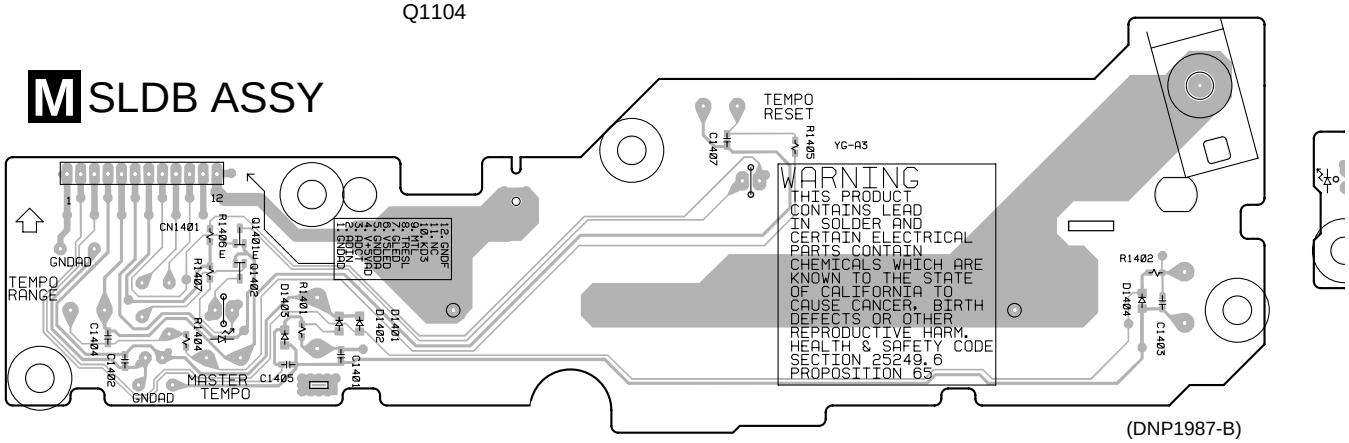
SIDE B



(DNP1987-B)

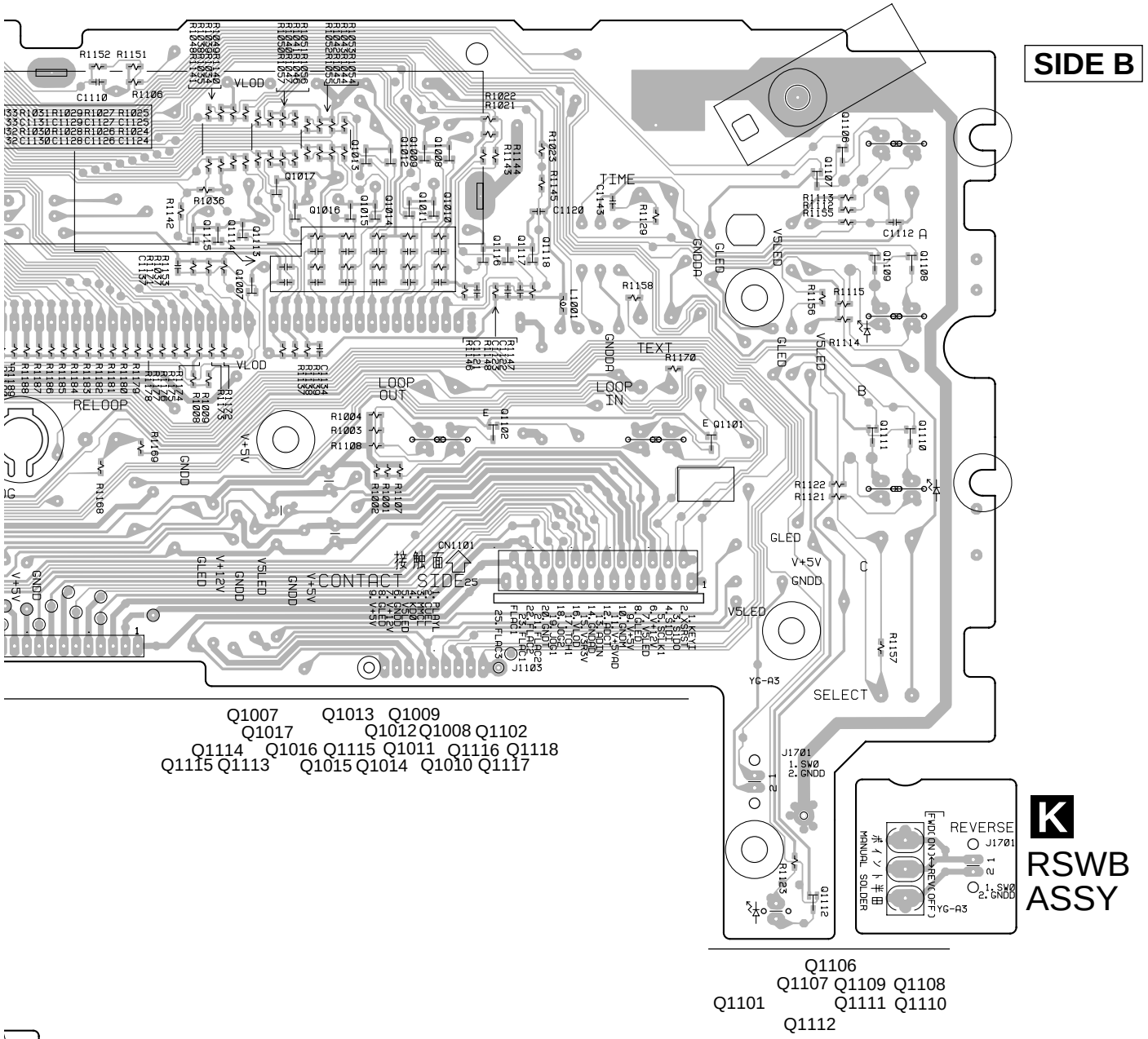
Q1103
Q1104

M SLDB ASSY

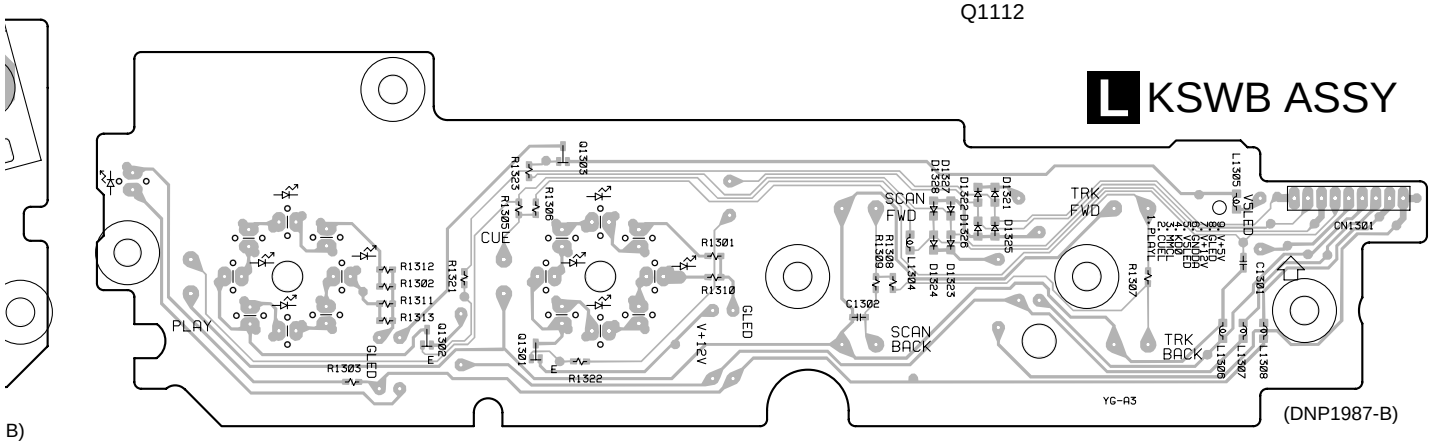


(DNP1987-B)

Q1401
Q1402

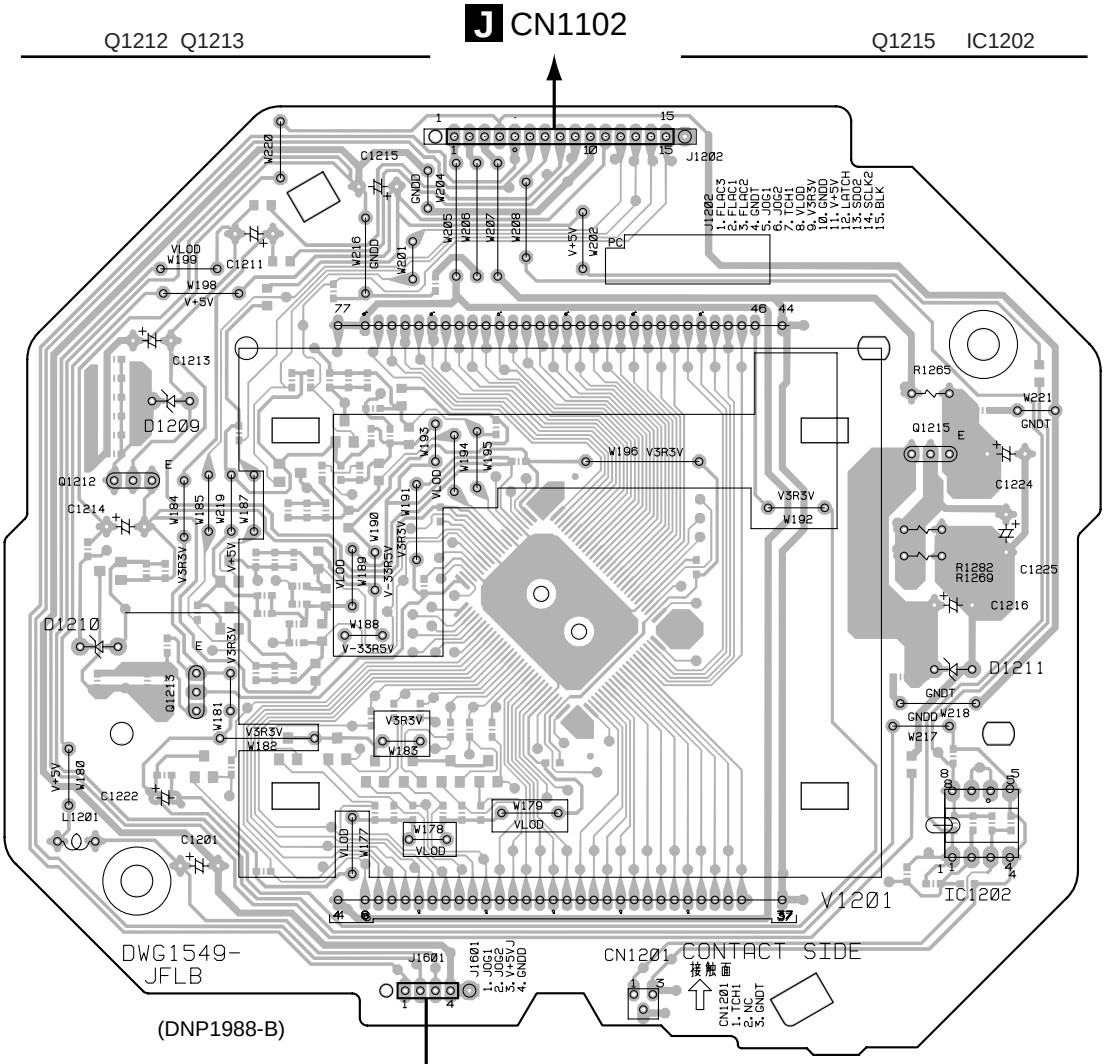

SIDE B
CONTACT SIDE
接触面
RELOOP
LOOP OUT
LOOP IN
TIME
TEXT
SELECT
REVERSE
MANUAL SOLDER
YG-A3
Q1007 Q1013 Q1009
Q1017 Q1012 Q1008 Q1102
Q1114 Q1016 Q1115 Q1011 Q1116 Q1118
Q1115 Q1113 Q1015 Q1014 Q1010 Q1117
Q1106
Q1107 Q1109 Q1108
Q1101 Q1111 Q1110
Q1112

K RSWB ASSY


L KSWB ASSY
PLAY
CUE
SCAN FWD
SCAN BACK
TRK FWD
TRK BACK
YG-A3
(DNP1987-B)
Q1302 Q1301 Q1303

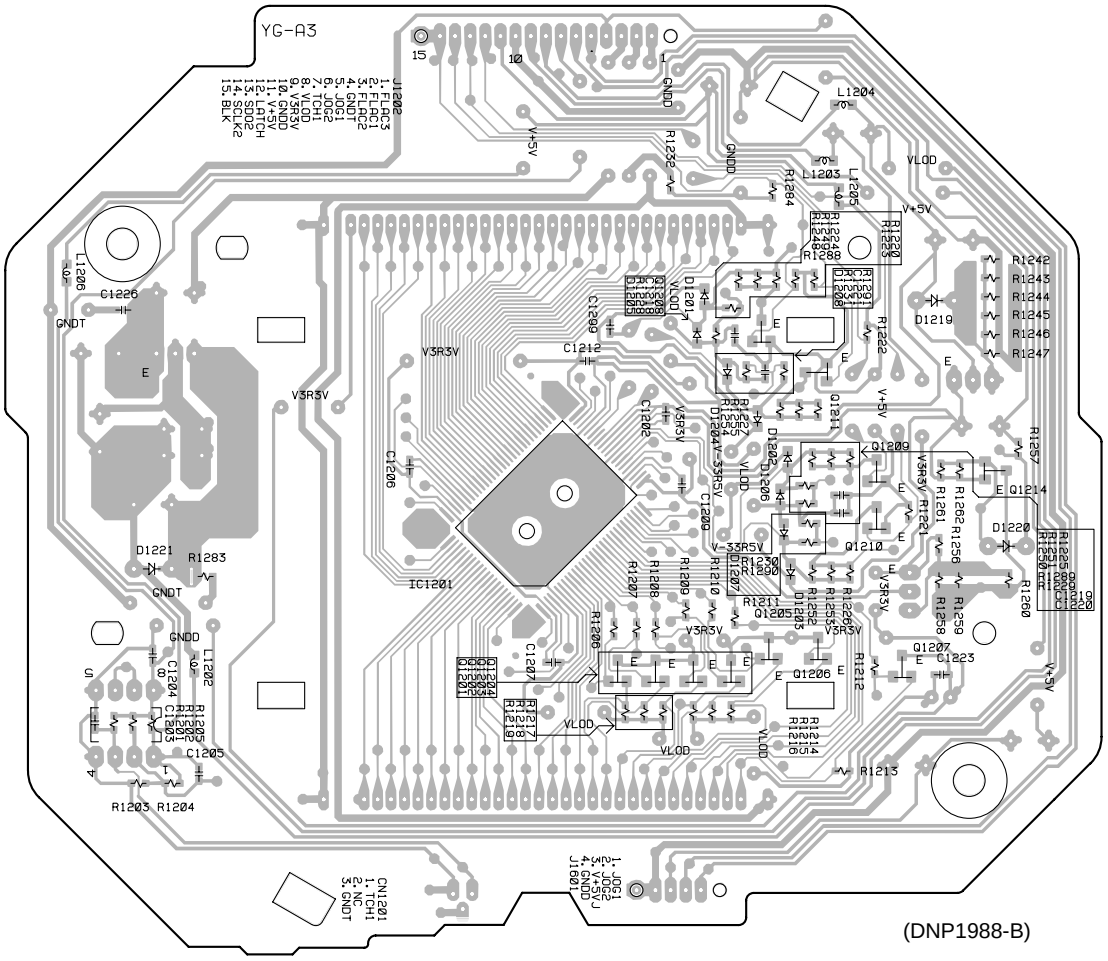
4.4 JFLB and JOGB ASSYS

SIDE A



SIDE B

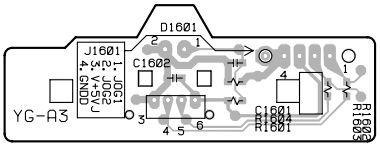
Q1211 Q1209
Q1202 Q1204 Q1205 Q1210
IC1201 Q1201 Q1203 Q1206 Q1207 Q1214



(DNP1988-B)

N JFLB ASSY

O JOGB ASSY

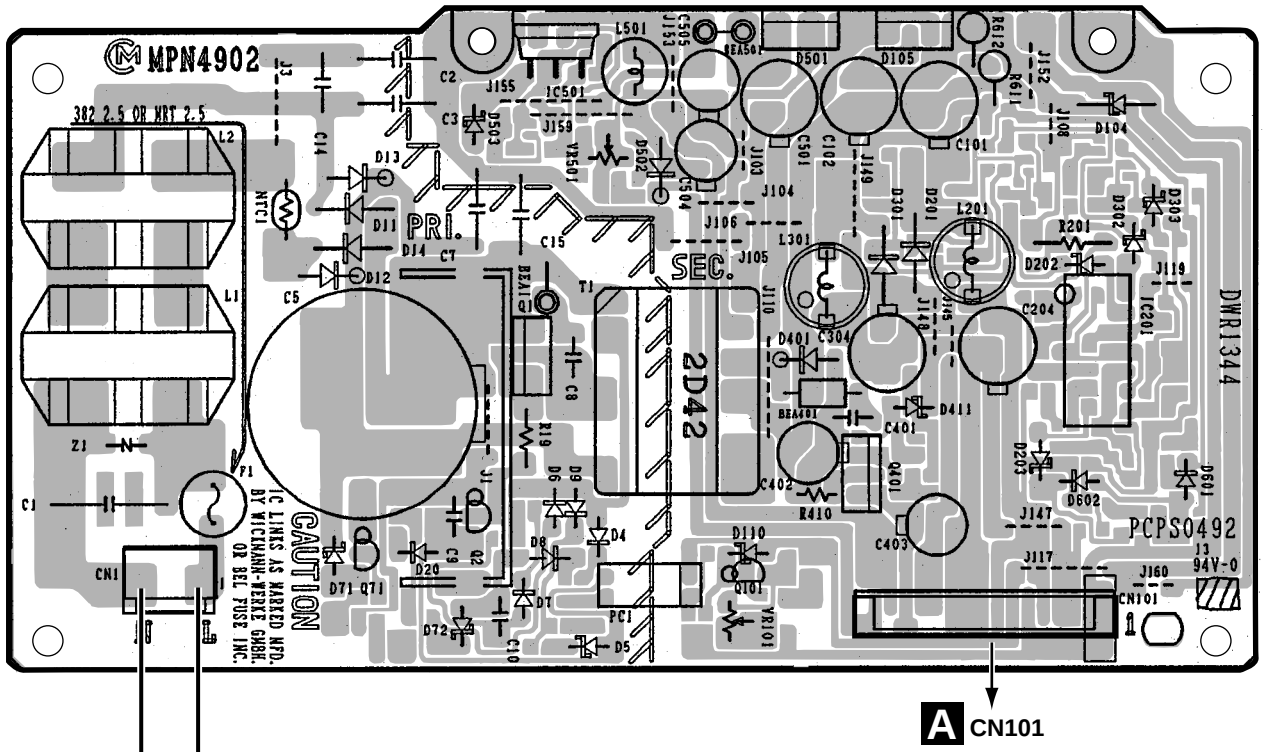


(DNP1988-B)

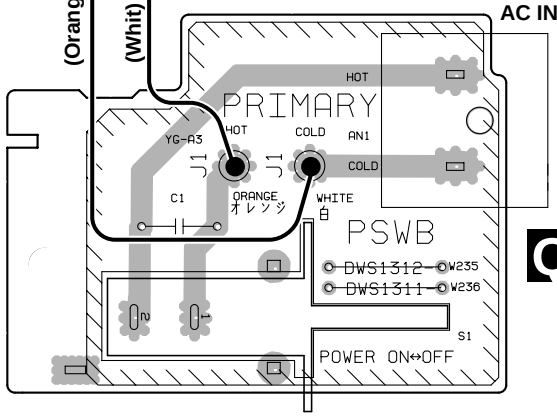
4.5 POWER SUPPLY and PSWB ASSYS

SIDE A

P POWER SUPPLY ASSY



A CN101

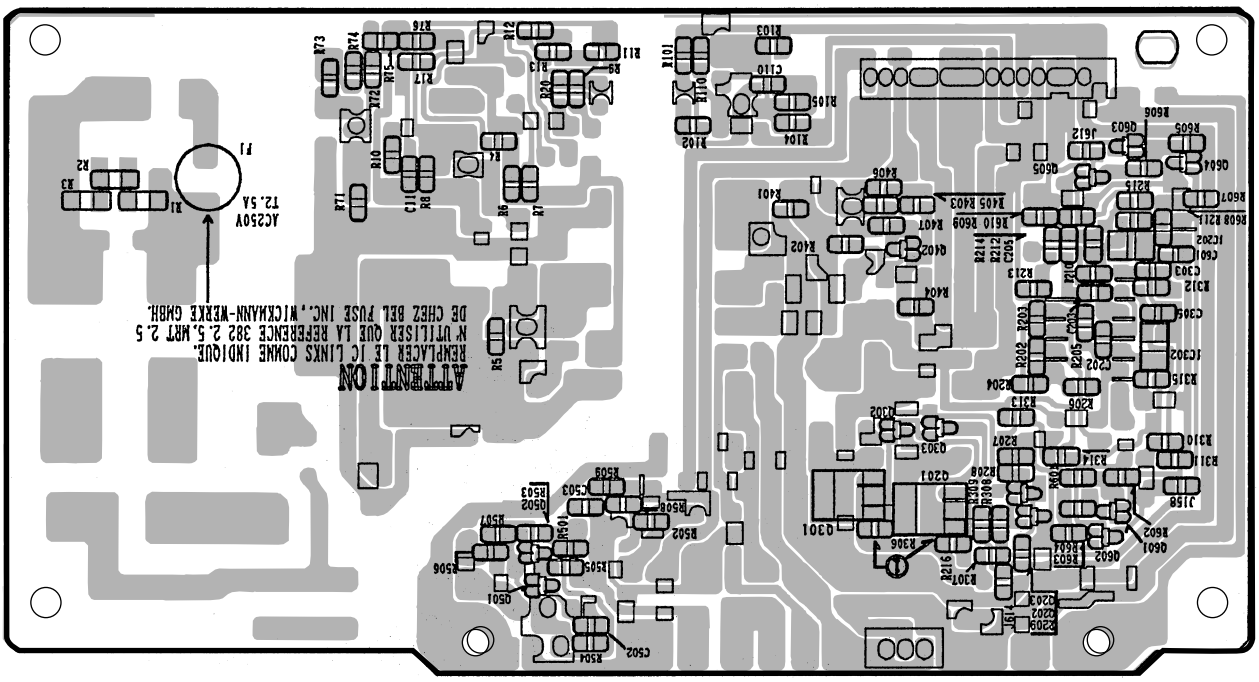


KUC: AC 120V
TL: AC110- 240V
WY: AC220- 240V

Q PSWB ASSY

SIDE B

P POWER SUPPLY ASSY



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 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

• LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.			Remarks
		CDJ-1000/ KUC	CDJ-1000/ TL	CDJ-1000/ WY	
NSP	MOTHER ASSY	DWM2123	DWM2123	DWM2123	
	├ MAIN ASSY	DWX2161	DWX2161	DWX2161	
	├ MMCB ASSY	DWX2169	DWX2169	DWX2169	
	├ SPCN ASSY	DWX2170	DWX2170	DWX2170	
	└ STCN ASSY	DWX2171	DWX2171	DWX2171	
NSP	DISP ASSY	DWM2126	DWM2124	DWM2124	
	├ MFLB ASSY	DWG1548	DWG1548	DWG1548	
	├ KSWB ASSY	DWS1307	DWS1307	DWS1307	
	├ SLDB ASSY	DWS1308	DWS1308	DWS1308	
	├ SLMB ASSY	DWS1309	DWS1309	DWS1309	
	├ RSWB ASSY	DWS1310	DWS1310	DWS1310	
	└ PSWB ASSY	DWS1312	DWS1311	DWS1311	∗1
NSP	SUB ASSY	DWM2125	DWM2125	DWM2125	
	├ JFLB ASSY	DWG1549	DWG1549	DWG1549	
	├ JOGB ASSY	DWG1550	DWG1550	DWG1550	
	├ DABB ASSY	DWX2162	DWX2162	DWX2162	
	├ JACB ASSY	DWX2163	DWX2163	DWX2163	
	├ DOUT ASSY	DWX2164	DWX2164	DWX2164	
	└ FLRB ASSY	DWX2166	DWX2166	DWX2166	
⚠	SW POWER SUPPLY ASSY	DWR1344	DWR1344	DWR1344	

∗1: For PSWB ASSY , Refer to " CONTRAST OF PCB ASSEMBLIES " and " PARTS LIST FOR CDJ-1000/KUC ".

• CONTRAST OF PCB ASSEMBLIES

P PSWB ASSY

DWS1312 and DWS1311 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		DWS1312	DWS1311	
	AN 1 (AC SOCKET) AN 1 (1P AC INLET)	AKP7032 Not used	Not used BKP1046	

• PARTS LIST FOR CDJ-1000/KUC

Mark	No.	Description	Part No.
		A MAIN ASSY	
		SEMICONDUCTORS	
		IC800	AN8702NFH
		IC850	BA10358F
		IC10	BA178M05FP
		IC202	BR24C64F
⚠		IC106 (I = 0.4A)	ICP-N10
⚠		IC102, IC103 (I = 0.6A)	ICP-N15
⚠		IC101, IC104 (I = 0.8A)	ICP-N20
⚠		IC105 (I = 1A)	ICP-N25
		IC606	K4S641632D-TL1L
		IC950	LA6562
		IC900	LB11975
		IC600	M51957BFP-TFB
		IC404	MM1561JF
		IC700	MN677061ZY
		IC609	NJM78L05UA
		IC300	PD3431A9
		IC201	PD3432A9
		IC11	PE8001A
		IC602	PE9012A
		IC150, IC206	PQ1R33
		IC100, IC607	PQ2TZ15
		IC203	TC74HC4053AFT
		IC12	TC74HCT7007AF
		IC205	TC74VHC08FT
		IC405	TC74VHC541FT
		IC407	TC7S04FU
		IC204, IC403, IC710	TC7SET08FU
		IC711	TC7SET32FU
		IC610	TC7SH08FU
		IC406, IC506	TC7SU04F
		IC611	TC7SU04FU
		IC605	TC7WT241FU
		IC13, IC402, IC608, IC612, IC701	TC7WU04FU
		IC604	TLC2932IPW
		IC601	XC2S50-5PQ208C
		IC401, IC501	XCA56367PV150
		Q 600	2SA1577
		Q 204	2SC4081
		Q 11, Q 202	DTA124EUA
		Q 201, Q 203, Q 301, Q 701, Q800	DTC124EUA
		Q 950	DTC124EUA
		D 11, D 203–D 232	1SS355
		COILS AND FILTERS	
		L 401, L 402, L 601, L 602	ATL7002
		L 11, L 13, L 200	DTL1024
		L 404, L 504	LCTA1R0J2520
		L 10, L 101, L 111, L 15, L 152	PTL1014
		L 201, L 600, L 603–L 611	PTL1014
		L 701–L 705	PTL1014

Mark	No.	Description	Part No.
		CAPACITORS	
		C 417, C 418, C 517, C 518, C 638	CCSRCH100D50
		C 831	CCSRCH100D50
		C 221, C 223, C 38–C 40, C 405	CCSRCH101J50
		C 411, C 413, C 415, C 421, C 423	CCSRCH101J50
		C 425, C 427, C 429, C 435, C 437	CCSRCH101J50
		C 439, C 445, C 469, C 505, C 511	CCSRCH101J50
		C 513, C 515, C 521, C 523, C 525	CCSRCH101J50
		C 527, C 529, C 535, C 537, C 539	CCSRCH101J50
		C 545, C 569, C 700	CCSRCH101J50
		C 635, C 637	CCSRCH120J50
		C 603, C 633	CCSRCH121J50
		C 464, C 634	CCSRCH150J50
		C 463	CCSRCH180J50
		C 803	CCSRCH181J50
		C 957	CCSRCH220J50
		C 407, C 431, C 441, C 461, C 507	CCSRCH221J50
		C 531, C 541, C 614	CCSRCH221J50
		C 959	CCSRCH270J50
		C 649	CCSRCH271J50
		C 914	CCSRCH331J50
		C 807	CCSRCH390J50
		C 467, C 468, C 567, C 568, C 707	CCSRCH470J50
		C 713	CCSRCH470J50
		C 453	CCSRCH471J50
		C 723, C 818, C 819	CCSRCH561J50
		C 724	CCSRCH681J50
		C 103, C 108, C 110, C 121, C 155	CEHAR101M10
		C 17, C 20, C 201, C 21, C 211	CEHAR101M10
		C 22, C 29, C 401, C 452, C 499	CEHAR101M10
		C 501, C 502, C 599, C 602, C 622	CEHAR101M10
		C 624, C 625, C 901, C 951	CEHAR101M10
		C 101, C 105, C 25–C 28, C 828	CEHAR470M16
		C 900	CEHAR470M16
		C 33, C 704, C 708, C 712, C 806	CKSRYB102K50
		C 811–C 813	CKSRYB102K50
		C 10, C 102, C 104, C 106, C 109	CKSRYB103K50
		C 11, C 112, C 122, C 123, C 154	CKSRYB103K50
		C 157, C 158, C 16, C 200	CKSRYB103K50
		C 202, C 203, C 205–C 210	CKSRYB103K50
		C 217, C 218, C 225, C 226	CKSRYB103K50
		C 230–C 233, C 31, C 32	CKSRYB103K50
		C 331–C 333, C 400, C 402, C 406	CKSRYB103K50
		C 408, C 412, C 414, C 416, C 422	CKSRYB103K50
		C 424, C 426, C 428, C 430, C 432	CKSRYB103K50
		C 436, C 438, C 440, C 442	CKSRYB103K50
		C 446–C 451, C 456, C 457, C 462	CKSRYB103K50
		C 466, C 500, C 506, C 508, C 512	CKSRYB103K50
		C 514, C 516, C 522, C 524, C 526	CKSRYB103K50
		C 528, C 530, C 532, C 536, C 538	CKSRYB103K50
		C 540, C 542, C 546–C 551	CKSRYB103K50
		C 556, C 557, C 6001,C 6002,C 601	CKSRYB103K50
		C 604, C 607, C 613, C 615, C 616	CKSRYB103K50
		C 618, C 623, C 626–C 632, C 636	CKSRYB103K50
		C 641–C 644, C 651–C 683, C 714	CKSRYB103K50
		C 726, C 730, C 733, C 751–C 755	CKSRYB103K50

Mark	No.	Description	Part No.
	C 800, C 857, C 910, C 964		CKSRYB103K50
	C 159, C 18, C 204, C 213, C 215		CKSRYB104K16
	C 228, C 23, C 24, C 30, C 300		CKSRYB104K16
	C 306, C 605, C 608–C 610, C 612		CKSRYB104K16
	C 620, C 621, C 715, C 716, C 725		CKSRYB104K16
	C 902, C 904, C 905		CKSRYB104K16
	C 229, C 600, C 640, C 648		CKSRYB105K6R3
	C 911		CKSRYB222K50
	C 606, C 639, C 833, C 903		CKSRYB224K10
	C 820		CKSRYB273K16
	C 470, C 570		CKSRYB472K50
	C 706, C 802, C 821		CKSRYB473K25
	C 703		CKSRYB562K50
	C 834, C 835		CKSRYB682K50
	C 301, C 303, C 305, C 702, C 705		CKSRYF104Z25
	C 709–C 711, C 717–C 722, C 732		CKSRYF104Z25
	C 801, C 804, C 805, C 808–C 810		CKSRYF104Z25
	C 815, C 822, C 825, C 826, C 830		CKSRYF104Z25
	C 832, C 950, C 952–C 956		CKSRYF104Z25
	C 455, C 940		CKSRYF105Z10
	C 454 (2.2µF/ 10V)		VCG1031
RESISTORS			
	R 825 (47Ω)		DCN1133
	R 900, R 901 (4.7Ω)		DCN1141
	R 323, R 324, R 419, R 654–R 657		RAB4C101J
	R 681, R 682		RAB4C101J
	R 828		RAB4C123J
	R 453		RAB4C220J
	R 800, R801		RAB4C273J
	R 834		RAB4C303J
	R 218, R 401, R 420, R421, R501		RAB4C473J
	R 829		RAB4C822J
	R 1–R 7		RS1/10S0R0J
	R 604		RS1/16S1502F
	R 806		RS1/16S2202F
	R 605		RS1/16S8202F
	VR601 (4.7KΩ)		VCP1172
	Other Resistors		RS1/16S□□□ J
OTHERS			
	X 401	20.000MHz	ASS7023
	X 701	33.8688MHz	DSS1126
	X 201, X 300	20MHz	DSS1127
	X 601	33.8688MHz	RSS1055
	X 602	27.0MHz	VSS1086
	CN13	5P JUMPER CONNECTOR	52147-0510
	CN11	9P JUMPER CONNECTOR	52147-0910
	CN101	15P JUMPER CONNECTOR	52147-1510
	CN102	3P JUMPER CONNECTOR	52151-0310
	CN201, CN301	KR CONNECTOR	B6B-PH-K
	CN900	12P FFC CONNECTOR	DKN1205
	CN950	4P FFC CONNECTOR	DKN1223
	CN203	25P CONNECTOR	HLEM25R-1
	CN302	CONNECTOR POST	S2B-PH-K
	CN12, CN303	CONNECTOR POST	S3B-PH-K
	CN202	CONNECTOR POST	S7B-PH-K

Mark	No.	Description	Part No.
B SPCN ASSY			
OTHERS			
	CN911, CN912	12P CONNECTOR	DKN1205
C STCN ASSY			
OTHERS			
	CN913, CN914	4P CONNECTOR	DKN1223
D FLRB ASSY			
RESISTORS			
	R 1504-R 1508		RS3LMF300J
OTHERS			
	CN1501	3P JUMPER CONNECTOR	52147-0310
E SLMB ASSY			
SWITCHES			
	S 1501,S 1502		DSG1017
OTHERS			
	CN1501	KR CONNECTOR POST	S3B-PH-K
F MMCB ASSY			
CAPACITORS			
	C 91		CCSRCH221J50
	C 99		CKSRYB103K50
	C 97		CKSRYB104K16
RESISTORS			
	Other Resistors		RS1/16S□□□ J
OTHERS			
	CN99	CONNECTOR POST	B7B-PH-K
	CN999	SD CONNECTOR	DKN1231
G DABB ASSY			
SEMICONDUCTORS			
	IC1901		NJM4580D
	Q 1907		2SA1145
	Q 1906		DTA124EUA
	Q 1901 -Q 1904		2SD2144S
	Q 1905		DTC124EUA
	D 1906		1SR154-400
	D 1904,D 1905,D 1907		1SS355
	D 1918		UDZ13B
CAPACITORS			
	C 1906,C 1907		CEANP101M16
	C 1912		CEAT101M50
	C 1905,C 1908		CKSRYB104K16
	C 1915,C 1916		CQMBA102J50
	C 1909,C 1910,C 1913,C 1914		CQMBA152J50
RESISTORS			
	R 1908,R 1919		RD1/2VM103J
	R 1909,R 1918		RD1/2VM113J
	R 1907,R 1920,R 1938,R 1939		RD1/2VM182J
	R 1916,R 1917		RD1/2VM273J
	R 1906,R 1910,R 1913,R 1923		RD1/2VM471J

Mark	No.	Description	Part No.
	R 1936,R 1937		RD1/2VM471J
	Other Resistors		RS1/16S□□□ J

OTHERS

	CN1901	9P JUMPER CONNECTOR	52147-0910
	CN1902	CONNECTOR POST	B3B-PH-K

H JACB ASSY

SEMICONDUCTORS

	D 1902		1SS355
	D 1901,D 1903		UDZS10B

CAPACITORS

	C 1901		CKSRYB104K16
	C 1903,C 1904		CQMBA102J50

RESISTORS

	R 1903		RD1/2VM271J
	R 1902,R 1911,R 1912		RD1/2VM471J

OTHERS

	CN1904	3PJUMPER CONNECTOR	52151-0310
	JA1902	2P PIN JACK	BKB1017
	JA1901	REMOCON JACK	RKN1004
	CN1903	CONNECTOR POST	S3B-PH-K

I DOUT ASSY

SEMICONDUCTORS

	IC1801		TC74HCU04AF

COILS AND FILTERS

	L 1802		PTL1003
	L 1803		PTL1014
	L 1801		PTL1017

SWITCHES AND RELAYS

	S 1801		DSH1025

CAPACITORS

	C 1810		CEAT101M6R3
	C 1809		CEAT470M10
	C 1808		CGCYX104M16
	C 1802		CKSRYB102K50
	C 1803,C 1804,C 1806,C 1807		CKSRYB104K16

RESISTORS

	Other Resistors		RS1/16S□□□ J

OTHERS

	0	3P CABLE HOLDER	51048-0300
	J 1801	JUMPER WIRE	D20PYY0305E
	JA1801	1P JACK	PKB1028
	CN1801	CONNECTOR POST	S3B-PH-K

Mark	No.	Description	Part No.

J MFLB ASSY

SEMICONDUCTORS

⚠	IC1101		PE5243A
	Q 1007-Q 1017,Q 1113-Q 1118		2SC4081
	Q 1112		DTA124EUA
	Q 1101-Q 1104,Q 1106-Q 1111		DTC124EUA
	D 1117		BR5364X
	D 1104-D 1107		EMAY3864X-HM
	D 1108		NSPB500-0008
	D 1112,D 1114,D 1116		SLA570MT
	D 1101,D 1109		SLR-343MC
	D 1111,D 1113,D 1115		SLR-343VC

COILS AND FILTERS

	L 1001,L 1002		PTL1014

SWITCHES

	S 1104-S 1107,S 1109-S 1112		ASG7013
	S 1116,S 1117,S 1119		ASG7013
	S 1101-S 1103,S 1113-S 1115		DSG1063
	S 1118		DSH1049

CAPACITORS

	C 1143-C 1145		CCSRCH101J50
	C 1112-C 1114,C 1138-C 1142		CCSRCH102J50
	C 1121-C 1137		CCSRCH471J50
	C 1108,C 1109,C 1116,C 1118		CEHAR470M16
	C 1100-C 1107,C 1110,C 1111,C 1115		CKSRYB103K50
	C 1117,C 1119,C 1120		CKSRYB103K50

RESISTORS

	VR1101,VR1102 (10KΩ- B)		DCS1045
	Other Resistors		RS1/16S□□□ J

OTHERS

	X 1101	4.19MHz	DSS1130
	0	2P CABLE HOLDER	51048-0200
	0	9P CABLE HOLDER	51048-0900
	0	12P CABLE HOLDER	51048-1200
	CN1101	25P CONNECTOR	52492-2520
	J 1103	9P JUMPER WIRE	D20PYY0915E
	J 1101	12P JUMPER WIRE	D20PYY1215E
	V 1101	FL INDICATOR TUBE	DEL1044
	0	FL HOLDER	DNF1665

K RSWB ASSY

SWITCHES

	S 1701		DSK1021

OTHERS

	0	2P CABLE HOLDER	51048-0200
	J 1701	2P JUMPER WIRE	D20PYY0210E

Mark	No.	Description	Part No.

L KSWB ASSY

SEMICONDUCTORS

	Q 1301-Q 1303		DTA124EUA
	D 1321-D 1328		1SS355
	D 1301-D 1304,D 1310,D 1311		EMAY3864X-HM
	D 1316,D 1317		EMAY3864X-HM
	D 1312-D 1315		SLR-342PC
	D 1305-D 1308		SLR-343MC
	D 1309		SLR-343VC

COILS AND FILTERS

	L 1304-L 1308		PTL1014

SWITCHES

	S 1303-S 1306		ASG7013
	S 1301,S 1302		DSG1063

CAPACITORS

	C 1302		CCSRCH101J50
	C 1301		CCSRCH102J50

RESISTORS

	Other Resistors		RS1/16S□□□ J

OTHERS

	CN1301	9P JUMPER CONNECTOR	52151-0910

M SLDB ASSY

SEMICONDUCTORS

	Q 1401,Q 1402		DTA124EUA
	D 1401-D 1404		1SS355
	D 1405		SLR-343MC
	D 1406		SLR-343VC

SWITCHES

	S 1401-S 1403		ASG7013

CAPACITORS

	C 1407		CCSRCH101J50
	C 1404		CCSRCH102J50
	C 1406		CEHAT100M50
	C 1401		CKSRYB103K50
	C 1402,C 1403		CKSRYB104K16

RESISTORS

	VR1401 (10kΩ-B)		DCV1012
	Other Resistors		RS1/16S□□□ J

N JFLB ASSY

SEMICONDUCTORS

	IC1202		NJM2903D
⚠	IC1201		UPD16306B
⚠	Q 1212		2SA933S
	Q 1201-Q 1207, Q 1214		2SC2412K
	Q 1208-Q 1211		2SJ209
	Q 1213, Q1215		2SB1237X
	D 1201-D 1208		1SS355
	D 1210		MTZJ30D
	D 1221		UDZ12B
	D 1219		UDZ4.3B

Mark	No.	Description	Part No.

COILS AND FILTERS

	L 1201		LRCA101J
	L 1202-L 1205		PTL1014

CAPACITORS

	C 1211,C 1213,C 1214,C 1216,C 1224		CEHAT100M50
	C 1201,C 1215		CEHAT101M16
	C 1225		CEHAT101M50
	C 1203		CKSRYB102K50
	C 1202,C 1204,C 1206,C 1207,C 1209		CKSRYB103K50
	C 1212,C 1218-C 1221,C 1223,C 1226		CKSRYB103K50

RESISTORS

	R 1269,R 1282		RD1/2VM221J
	R 9999		RS1/10S0R0J
	Other Resistors		RS1/16S□□□ J

OTHERS

	0	4P CABLE HOLDER	51048-0400
	CN1201	FPC CONNECTOR	5597-03CPB
	J 1202	15P JUMPER WIRE	D20PYY1505E
	V 1201	FL INDICATOR TUBE	DEL1043
	0	FL HOLDER	DNK3959

O JOGB ASSY

SEMICONDUCTORS

	D 1601		GP1A037RBK

CAPACITORS

	C 1601,C 1602		CKSRYB103K50

RESISTORS

	Other Resistors		RS1/16S□□□ J

OTHERS

	0	4P CABLE HOLDER	51048-0400
	J 1601	4P JUMPER WIRE	D20PYY0405E

P SW POWER SUPPLY ASSY

There is no service parts.

Q PSWB ASSY

SWITCHES

⚠	S 1		RSA1001

OTHERS

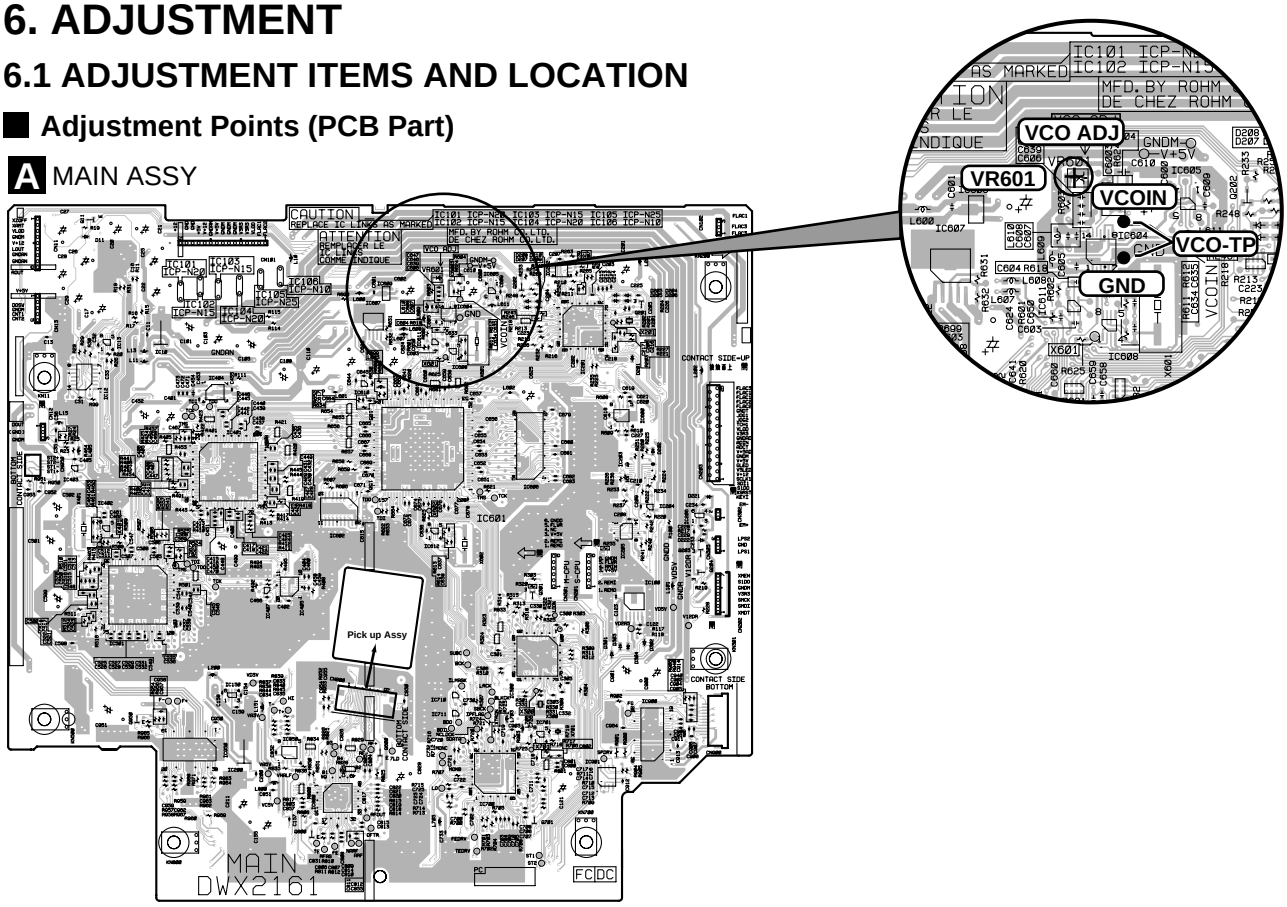
⚠	AN1	POWER SOCKET	AKP7032
⚠	J 1	CONNECTOR ASSY	DKP3545
	0	PCB BINDER	VEF1040

6. ADJUSTMENT

6.1 ADJUSTMENT ITEMS AND LOCATION

■ Adjustment Points (PCB Part)

A MAIN ASSY



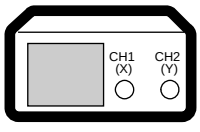
SIDE A

■ Adjustment Items

[Electrical Part]

① VCO Free-running Adjustment

6.2 JIGS AND MEASURING INSTRUMENTS

	 Dual-trace oscilloscope (10:1 probe)

6.3 NECESSARY ADJUSTMENT POINTS

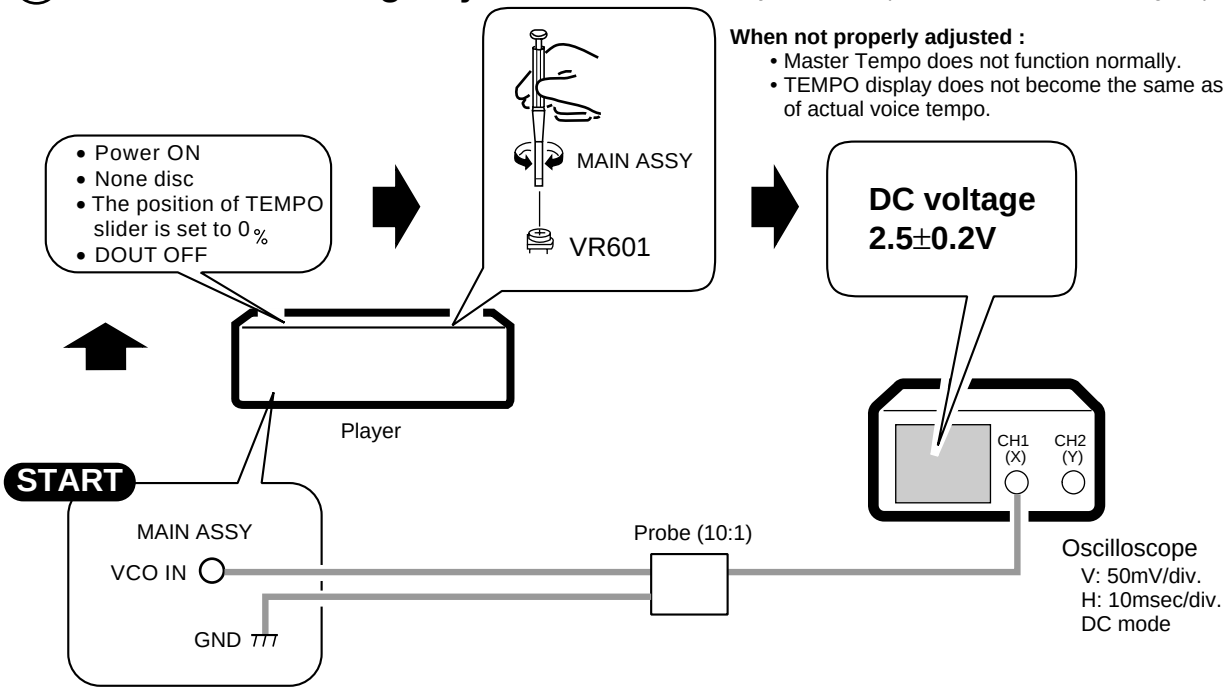
When	Adjustment Points
Exchange MAIN ASSY	① → Page 58

6.4 ELECTRICAL ADJUSTMENT

① VCO Free-running Adjustment

Objective : To optimize the VCO free-running frequency

When not properly adjusted :
- Master Tempo does not function normally.
- TEMPO display does not become the same as that of actual voice tempo.



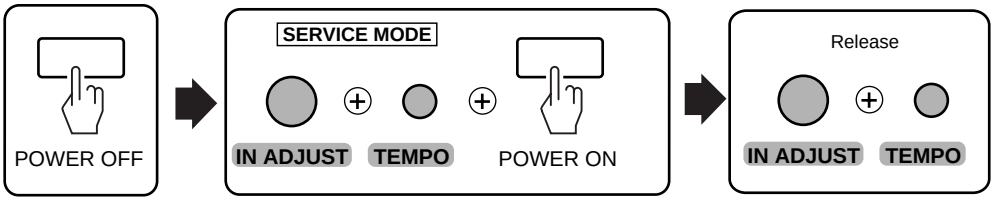
7.1 GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 SERVICE MODE

7.1.1.1 HOW TO START / CANCEL SERVICE MODE

SERVICE MODE : ON



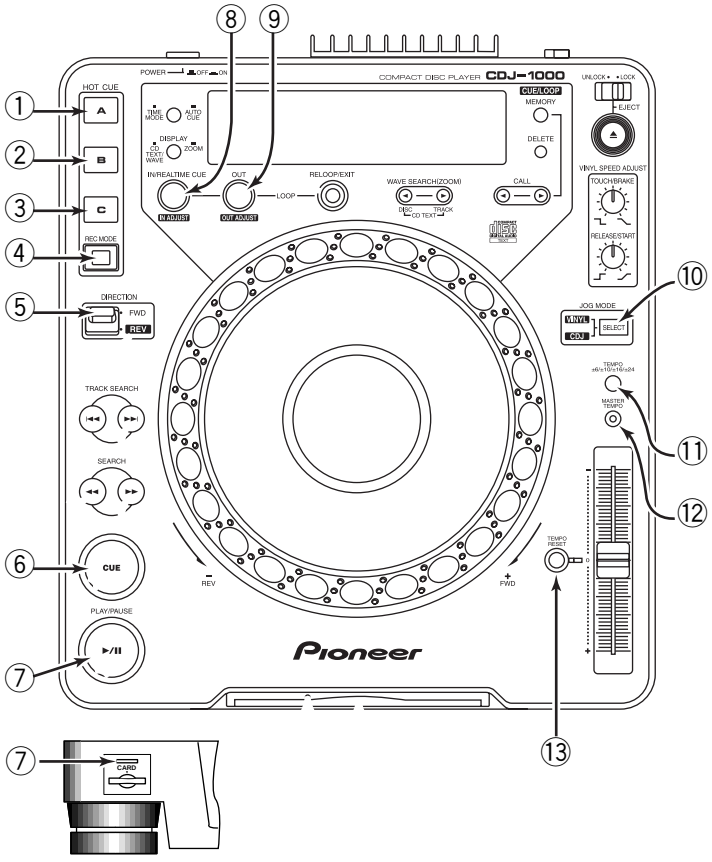
SERVICE MODE : CANCEL

7.1.1.2 OPERATION IN SERVICE MODE

- In the service mode, can check "LED and FL displays" partially as follows.
- In addition, it lights while pressing the key.

LED CHECK

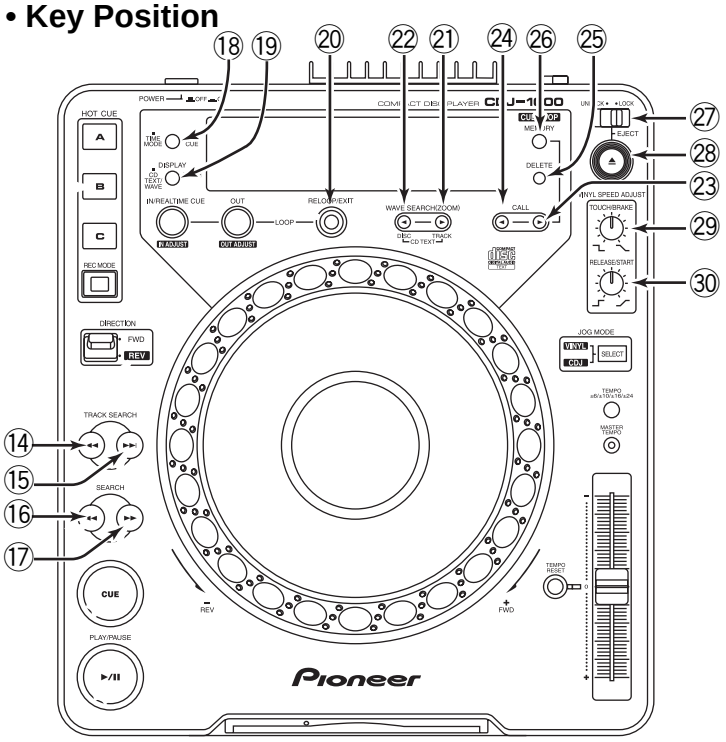
Key Name	LED lighting
① HOT CUE -A	A (Green)
② HOT CUE -B	B (Green)
③ HOT CUE -C	C (Green)
④ REC MODE	A (Red) B (Red) C (Red)
⑤ DIRECTION (SW)	REV
⑥ CUE	CUE
⑦ PLAY/PAUSE	▶/II CARD
⑧ IN ADJUST	IN ADJUST
⑨ OUT ADJUST	OUT ADJUST
⑩ JOG MODE	CDJ
⑪ TEMPO	VINYL
⑫ MASTER TEMPO	MASTER TEMPO
⑬ TEMPO RESET	TEMPO RESET



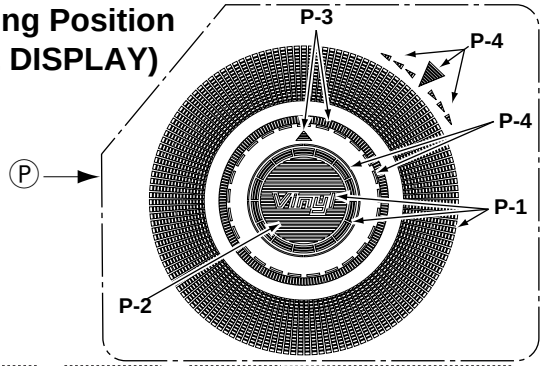
FL CHECK

Key Name	FL lighting Position
⑭ ►►I	Ⓐ- 1 , Ⓟ- 1
⑮ I◄◄	Ⓐ- 2 , Ⓟ- 2
⑯ ◄◄	Ⓑ- 1 , Ⓟ- 3
⑰ ►►	Ⓑ- 2 , Ⓟ- 4
⑱ TIME MODE/AUTO CUE	Ⓒ
⑲ DISPLAY	Ⓓ
⑳ RELOOP/ EXIT	Ⓔ
㉑ WAVE - FWD	Ⓕ
㉒ WAVE - REV	Ⓖ
㉓ CALL - FWD	Ⓗ
㉔ CALL - REV	Ⓘ
㉕ DELETE	Ⓙ
㉖ MEMORY	All of FL,Ⓟ: Jog-FL and LED light up.
㉗ EJECT LOCK (SW)	Ⓛ
㉘ EJECT	Ⓜ
㉙ MEMORY JOG ADJUST -TOUCH (VOL)	Right from VR Center Ⓝ
㉚ MEMORY JOG ADJUST -RELESE (VOL)	Right from VR Center Ⓞ

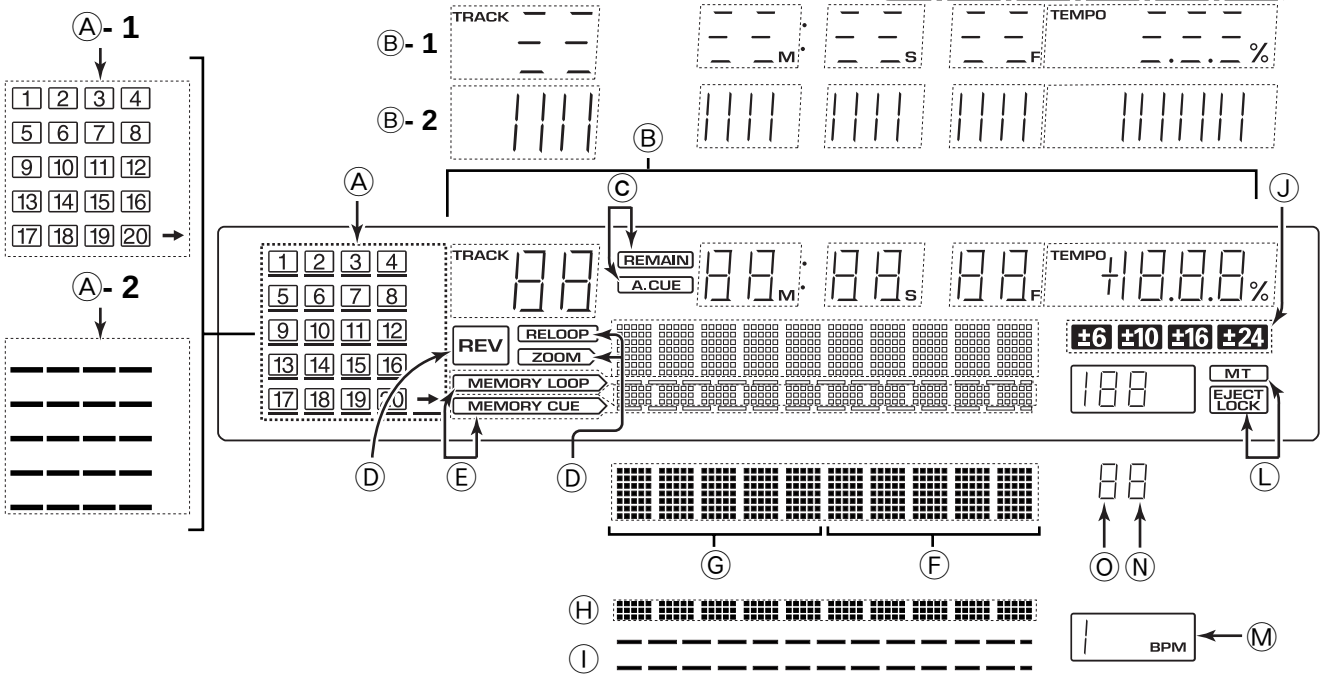
• Key Position



• FL lighting Position (Jog- FL DISPLAY)



(FL DISPLAY)



7.1.2 ERROR DISPLAY

• When trouble occurred in the player operation in the normal use, display the error code in FL a second and a freames. In addition, can display a history of error content.

1. Display the software version to display part of minute, second and freame that continues pressing RELOOP button for 10 seconds.

2. RAM address (FFEF20-FFFFFF) of the microcomputer inside and the content (00-FF) display it with a hexadecimal number to character display section when turns the Jog Dial.

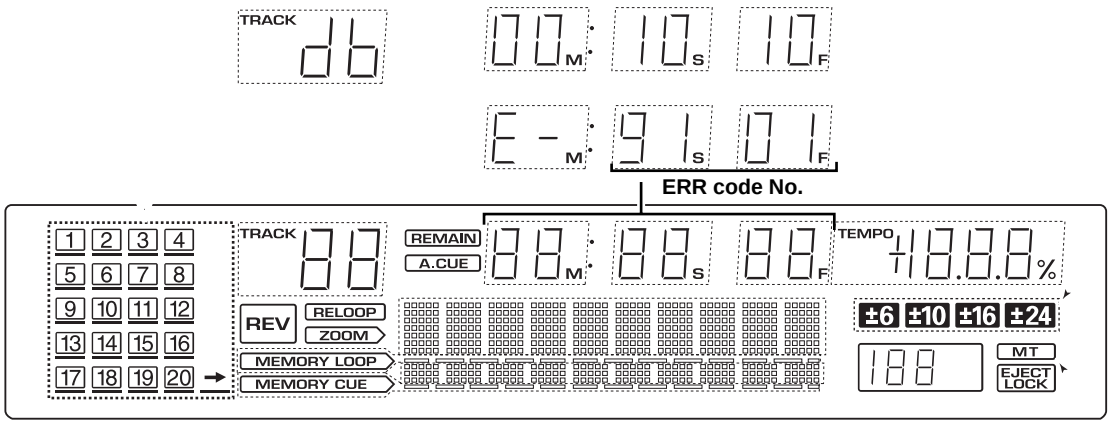
3. Display 16 histories of the latest error content in RAM address (FFF020-FFF02F).

• Error Code Table

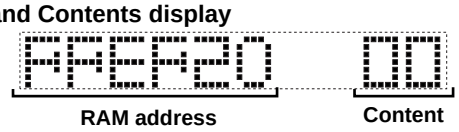
Error Code	Error Name	Error Content
E - 7201	TOC READ ERROR	26: Cannot lead TOC data
E - 8301	PLAYER ERROR (Abnormality of raising up)	11: All the error stop before disc distinction is this error. 20: Spindle does not turn 21: No disc (Focus servo error small) 24: Address is not readable
E - 8302	PLAYER ERROR (Abnormality of playback)	12: Specified address were not able to search 15: Address is not readable 22: Focus servo cannot close 23: Tracking servo cannot close
E - 8303	PLAYER ERROR (Abnormality of buffer write)	99: Abnormality of buffer write
E - 9101	MECHANICAL TIME OUT	90: Abnormality of the disc loading mechanism (Timeout)

■ Error disply explanation

1. Soft version display

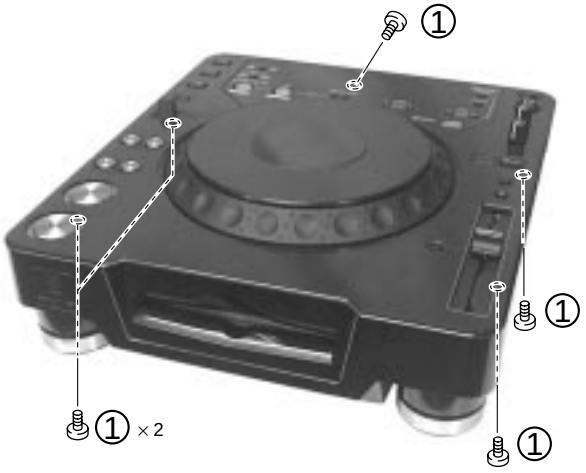


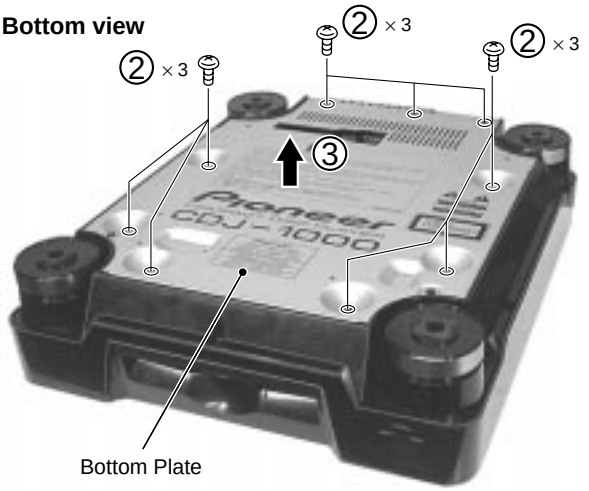
2. RAM address and Contents display



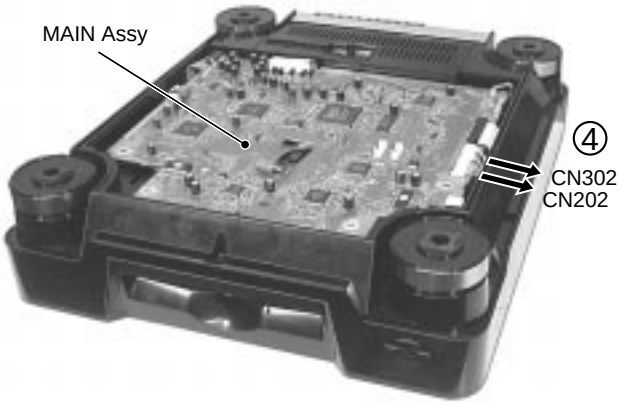
3. Error history display

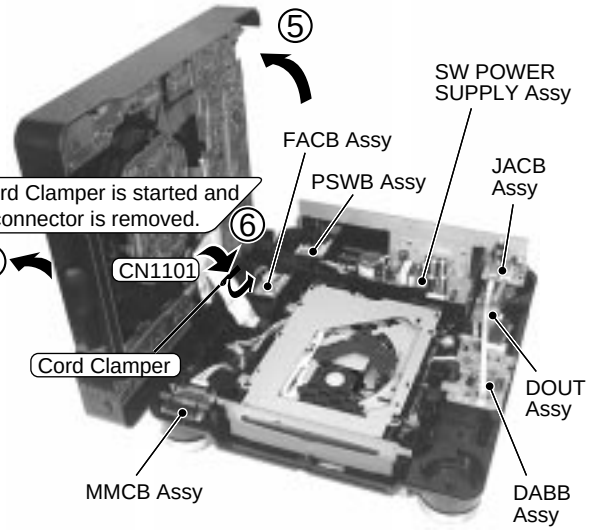
7.1.3 DISASSEMBLY

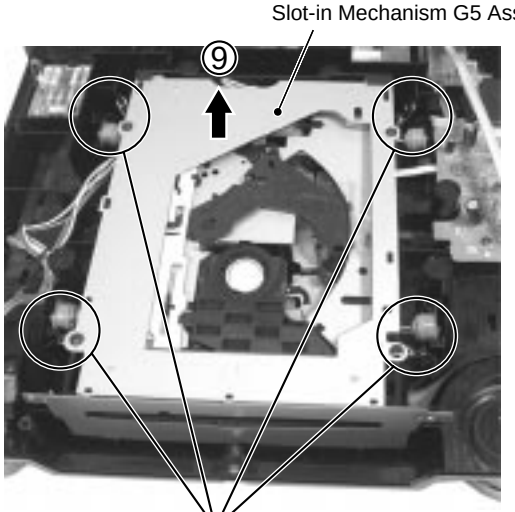




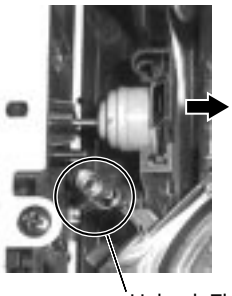
④ Disconnect two Connectors.

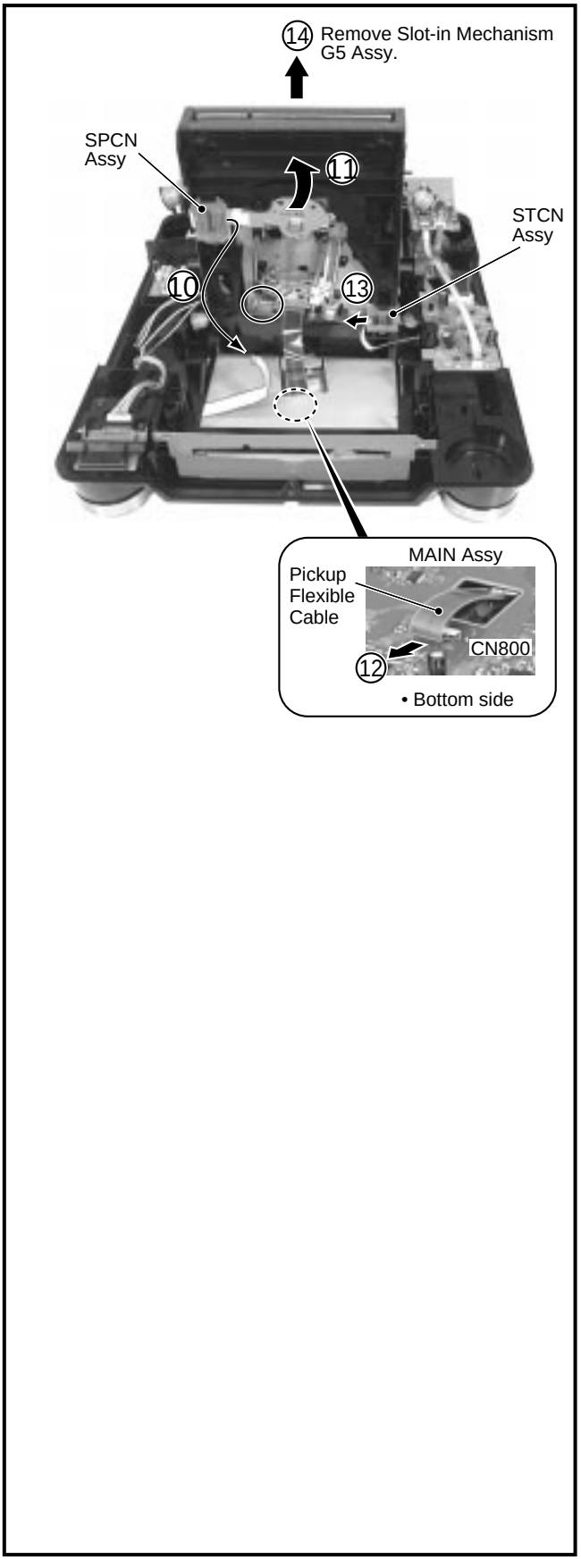




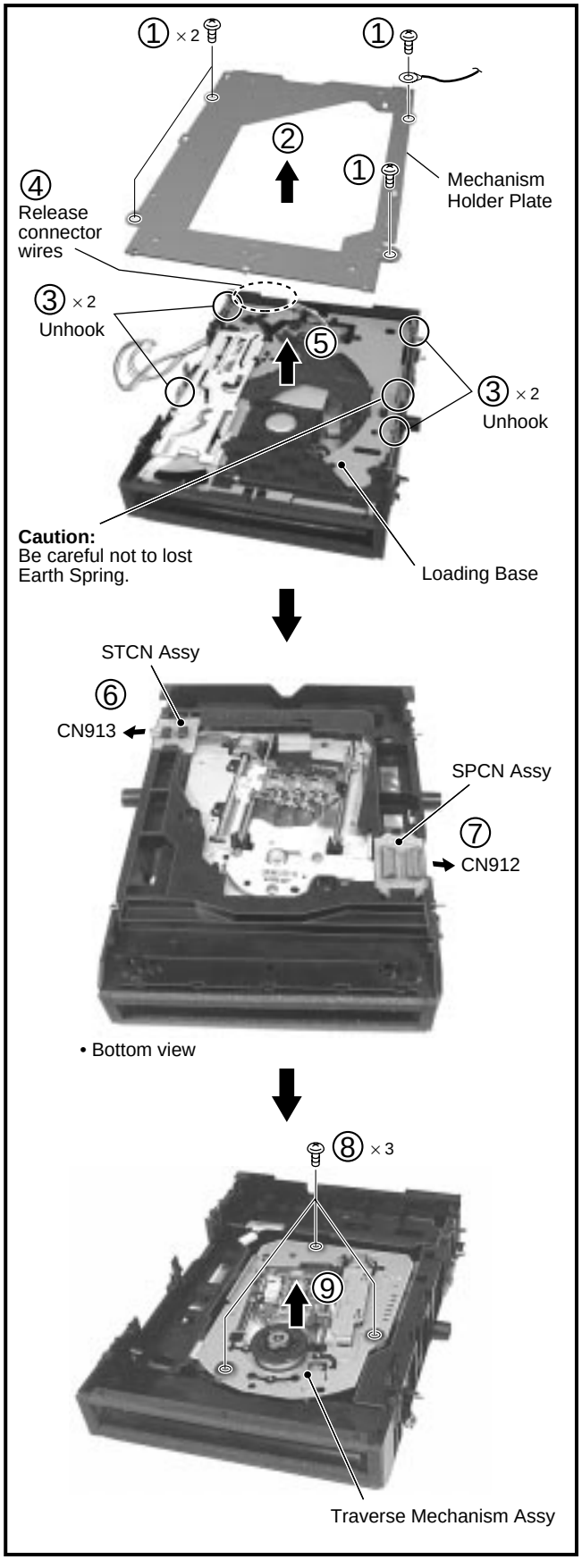


⑧ Unhook four springs and Dampers.



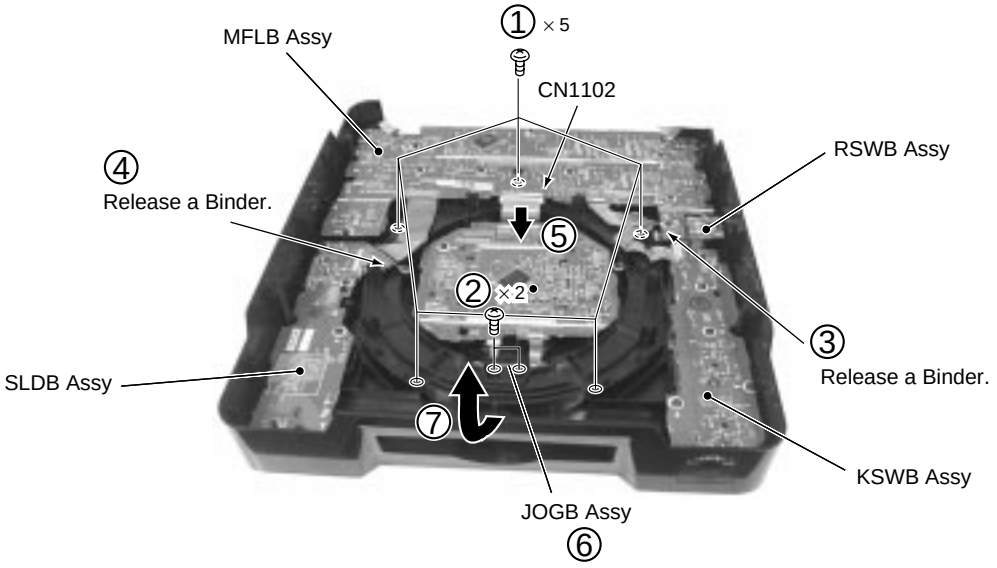


■ Traverse Mechanism Assy



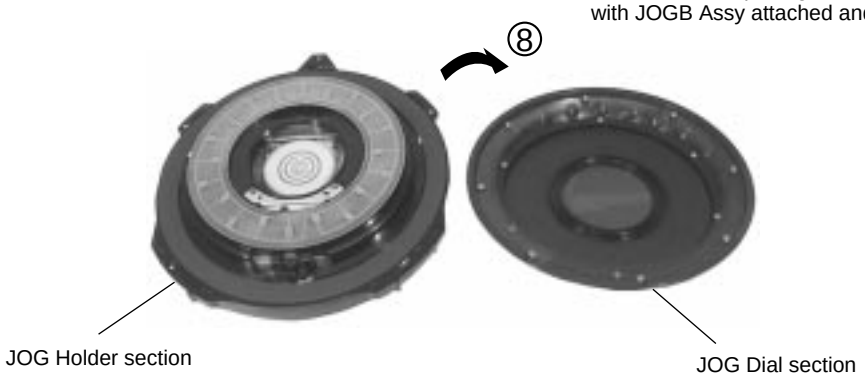
■ JOG Dial Section

• Rear view



JOGB Assy is removed from a hook.

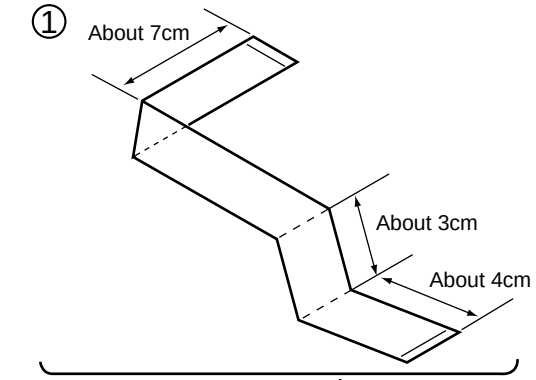
Note:
There is a poss bility that a crack may be attached to not opening JOG DIAL part, with JOGB Assy attached and an encoder plate.

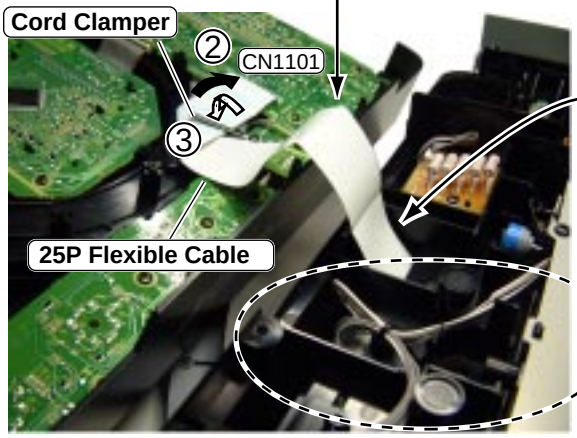


Diagnosis or Replacement

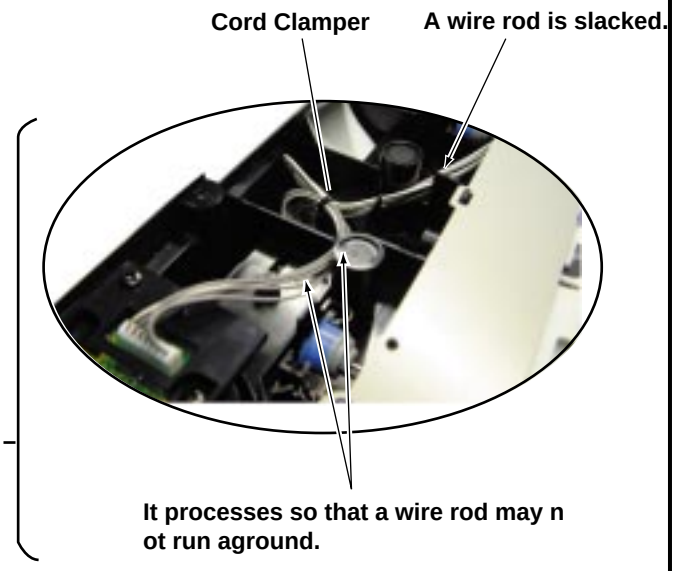
■ The processing method of each wire rod

● Processing of flexible cable

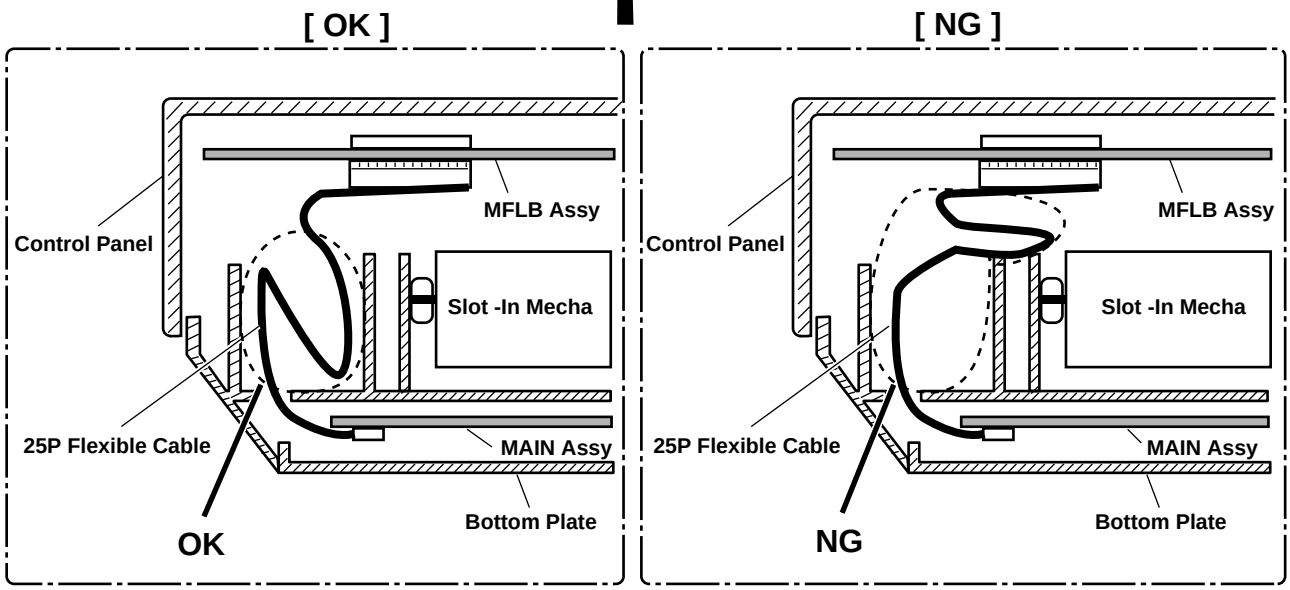




● Processing of each wire rod



● The cautions on an assembly



7.1.4 Part Replacement Method of JOG Section

7.1.4.1 A part to Replace in Part Replacement Simultaneously

		Replacement Part							
		Sheet SW (DSX1057)	JOG Sheet A (DXB1757)	JOG Sheet B (DXB1757)	JOG Sheet C (DXB1757)	JOG Plate (DAH2052)	JOG Holder (DNK3872)	JOG Dial A (DNK3870)	JOG Dial B (DNK3871)
A Part to Replace Simultaneo-usly	Sheet SW			■			○		
	JOG Sheet A					○		○	
	JOG Sheet B	■					○		
	JOG Sheet C								○
	JOG Plate		○					○	
	JOG Holder	■		○					
	JOG Dial A		○			○			
	JOG Dial B				○				

Note ■ : Do not need to replace the JOG Holder when replacing the Sheet SW. However, be careful so that paste does not remain on the former Sheet SW.

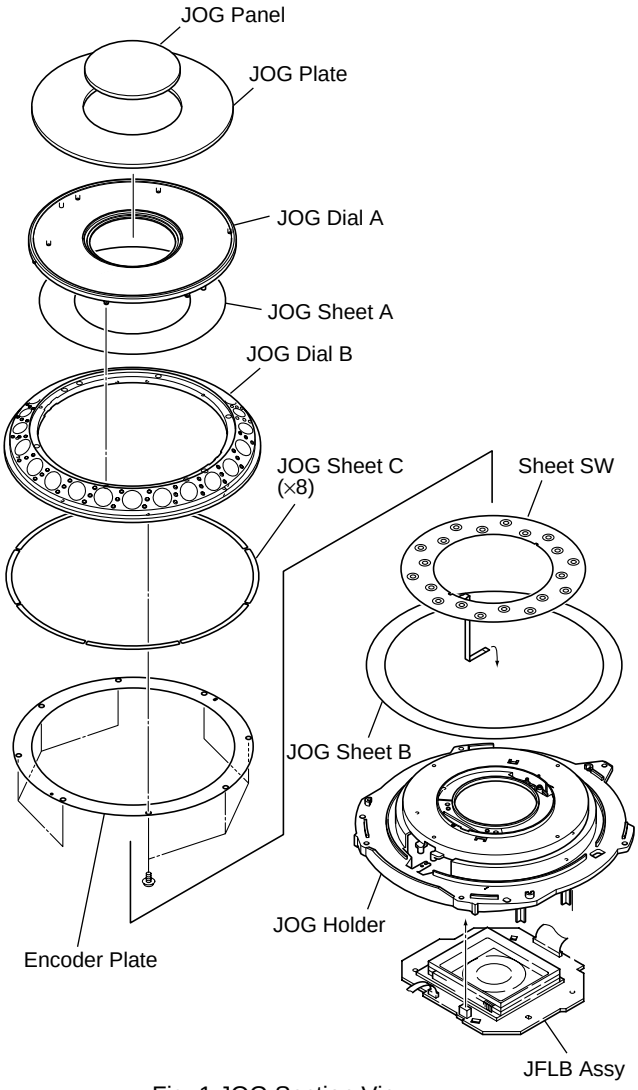


Fig. 1 JOG Section View

7.1.4.2 Caution in Sheet SW Installation

① Be careful not to bend and fold the Sheet SW.
② Confirm that the dust or trash does not adhere to pasting side (JOG Holder).
In addition, when tear off the former Sheet SW and put a new part, completely wipe the JOG Holder off with alcohol so that paste does not remain on the pasting side of JOG Holder.
③ Bend a cable of the Sheet SW in a right angle in difference in grade shape, and put it in corner hole of the JOG Holder. (Fig. ❷)
④ When put the Sheet SW, match the position not to run aground on rib of the internal circumference of JOG Holder. (Fig. ❷)
⑤ Sheet SW pushes all the sides including the point of contact fully, and put it. (No good air getting into it.)
⑥ When insert a cable in connector, release a lock by all means, and connector locks after inserting it.
⑦ A cable performs styling as shown in Fig. ❸ after installing the JFLB Assy (DWG1549).

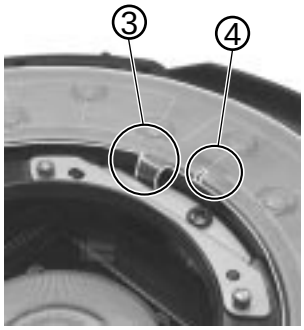


Fig. ❷

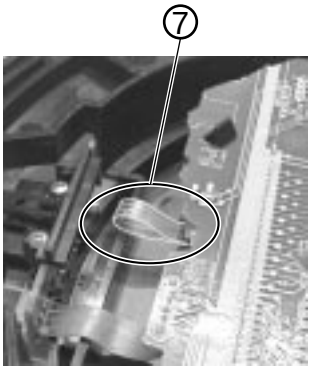
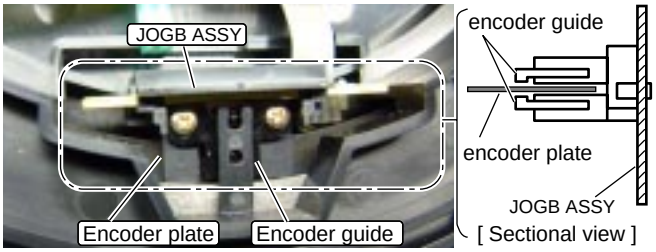


Fig. ❸ (Bottom View)

⑧ It assembles so that an encoder plate may go into the slot of the encoder guide of JOGB Assy.



[Sectional view]

7.1.4.3 Caution in JOG Sheet A Pasting

① Be careful not to bend and fold the JOG Sheet A.
② Put a lubricant (GEM1038) on the sheet.
③ Confirm that the dust or trash do not adhere to pasting side (JOG Dial A).
④ Match JOG Sheet A with marking of inner and outer circumference for pasting of JOG Dial A. (Fig. ❹)
⑤ Put it to push you out of the inner circumference toward the periphery. (No good air getting into it.)

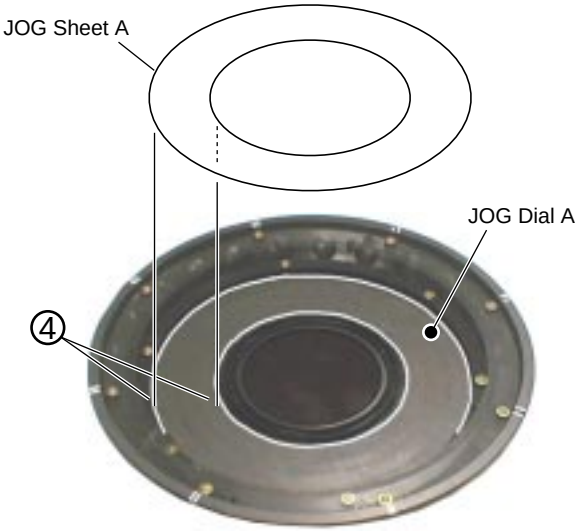


Fig. ❹ (Bottom View)

7.1.4.4 Caution in JOG Sheet B Pasting

① Be careful not to bend and fold the JOG Sheet B.
② Put a lubricant (GEM1038) on the sheet.
③ Confirm that the dust or trash do not adhere to pasting side (JOG Holder).
④ Pasting method: Two places have this side with 90°. Paste it while matching with a guide of rib, and match a round. (Fig. ❺)
⑤ Put it to push you out of the inner circumference toward the periphery. (No good air getting into it.) (Fig. ❻)

Fig. ❺

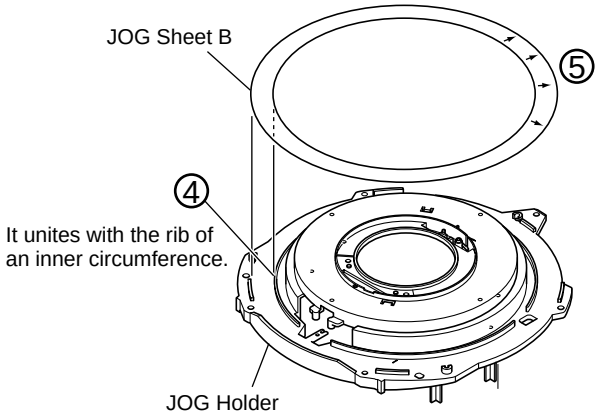


Fig. ❻

7.1.4.5 Caution in JOG Sheet C Pasting

① Be careful not to bend and fold the JOG Sheet C.
② Put a lubricant (GEM1038) on the sheet.
③ Confirm that the dust or trash do not adhere to pasting side (JOG Dial B).
④ Pasting method: Match the inside diameter direction with edge side of the inside diameter of JOG Dial B, and match eight places of periphery directions in rib. (No good JOG Dial B protruding outward) (Fig. ❼)

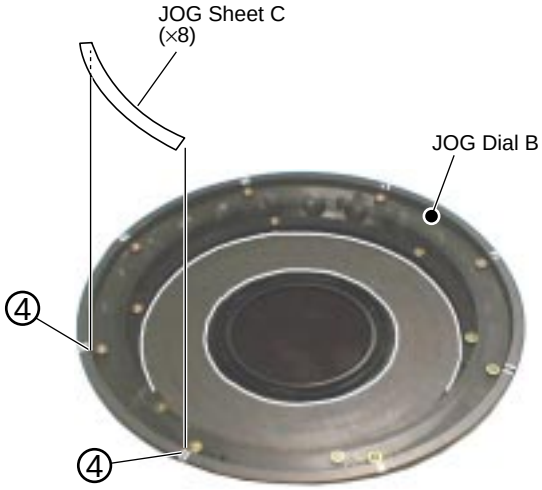


Fig. ❼ (Bottom View)

7.1.4.6 Caution in JOG Plate pasting

① Confirm that the dust or trash do not adhere to pasting side (JOG Dial A).
② JOG Plate matches it with rib of the inner circumference of JOG Dial A, and put it. However, be careful not to run aground on the rib. (Fig. ❽)
③ Be careful so that air gets into it, and the appearance of sheet does not wave.

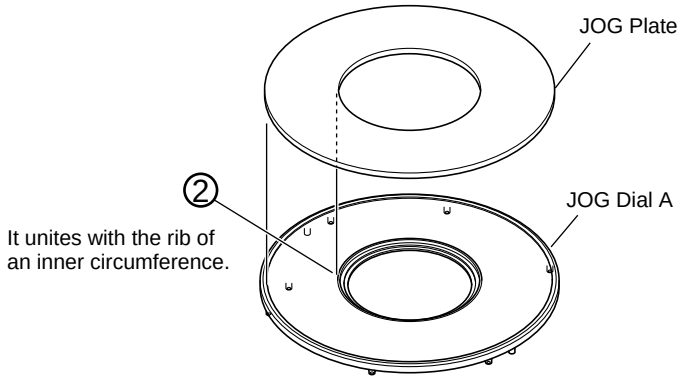
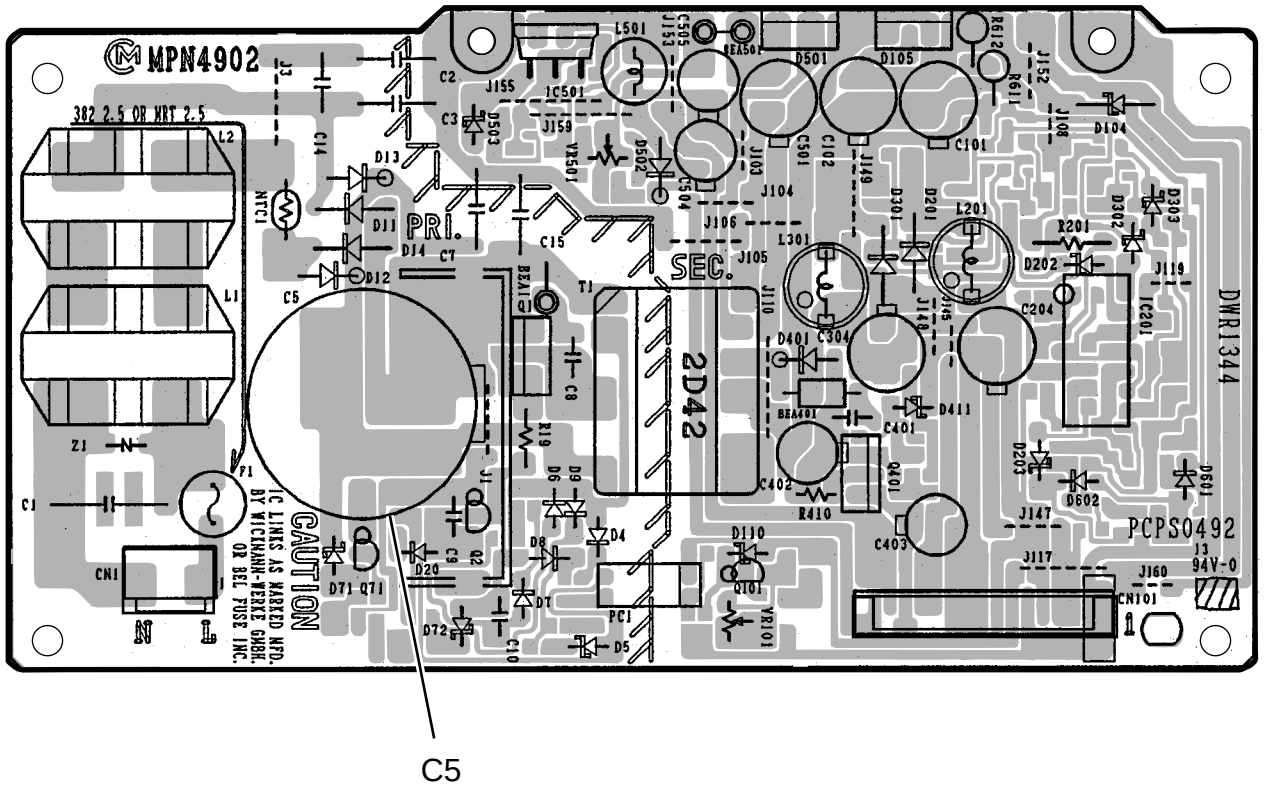


Fig. ❽

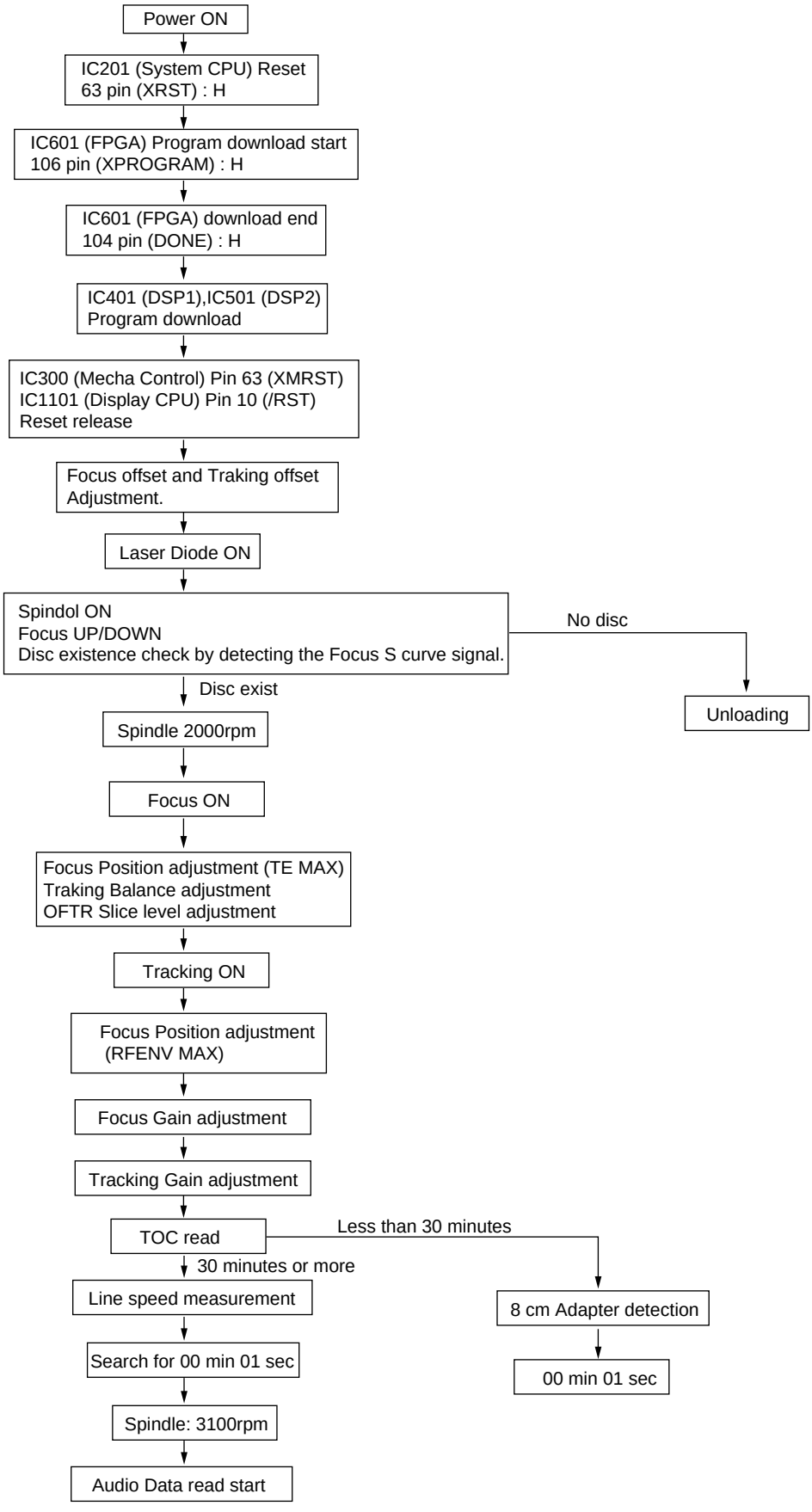
7.1.5 About electric discharge

• To the capacitor (C5) of a switching circuit part, it is in power supply OFF. (after 5 minutes) Although remained abbreviation 20V, there is no danger of an electric shock.

P **POWER SUPPLY ASSY**



7.1.6 SEQUENCE AFTER THE POWER ON



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.

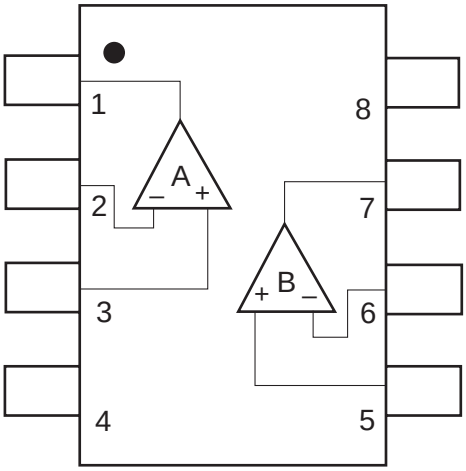
●List of IC

NJM2903D, UPD16306BGF, MM1561JF, XCA56367PV150, PD3431A9, PD3432A9, PE5243A

■ NJM2903D (JFLB ASSY : IC1202)

• Comparator

● Block Diagram

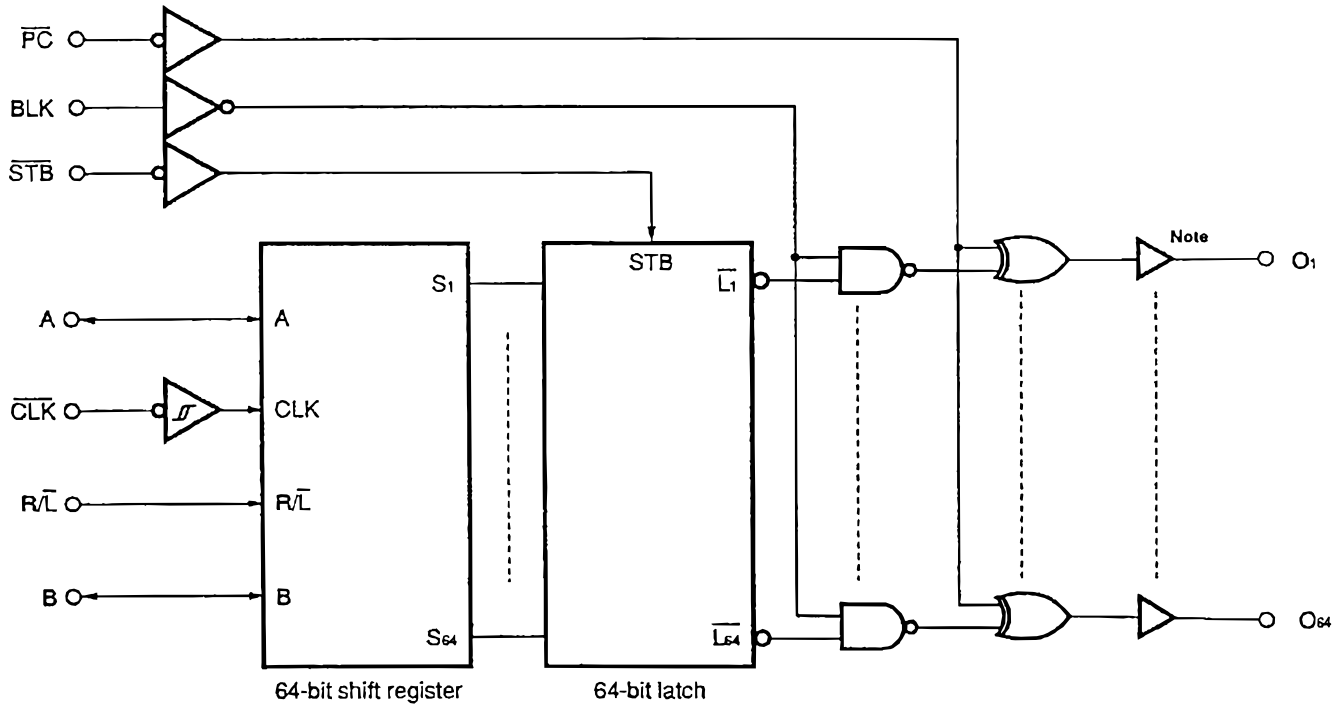


1 . A OUTPUT
2 . A − INPUT
3 . A + INPUT
4 . GND
5 . B + INPUT
6 . B − INPUT
7 . B OUTPUT
8 . V^+

■ UPD16306B (JFLB ASSY : IC1201)

• Output VFD Driver

● Block Diagram

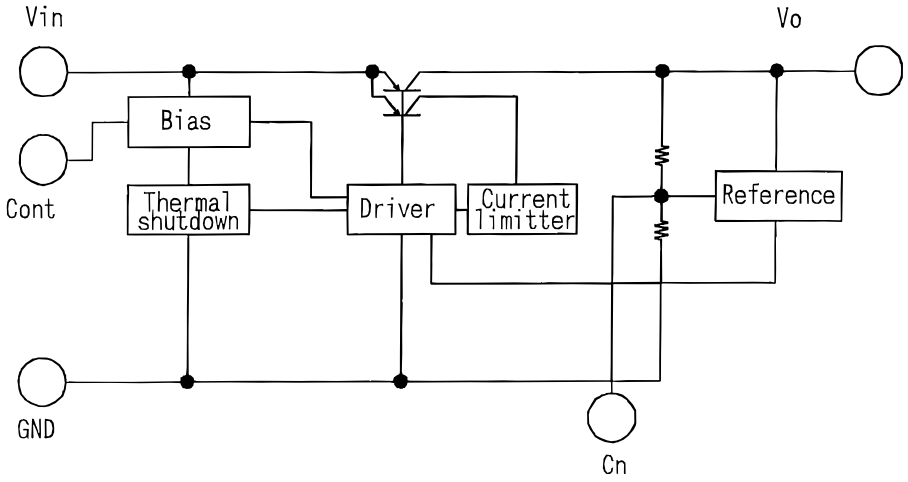


Note High-voltage CMOS drivers (80 V, ±50 mA MAX.)

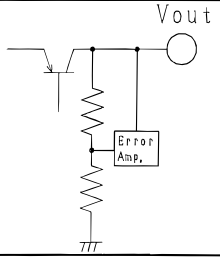
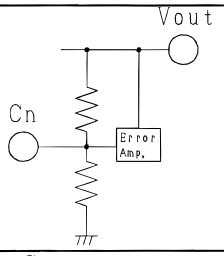
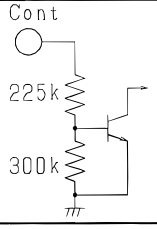
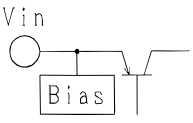
■ MM1561JF (MAIN ASSY : IC404)

• 500mA Regulator

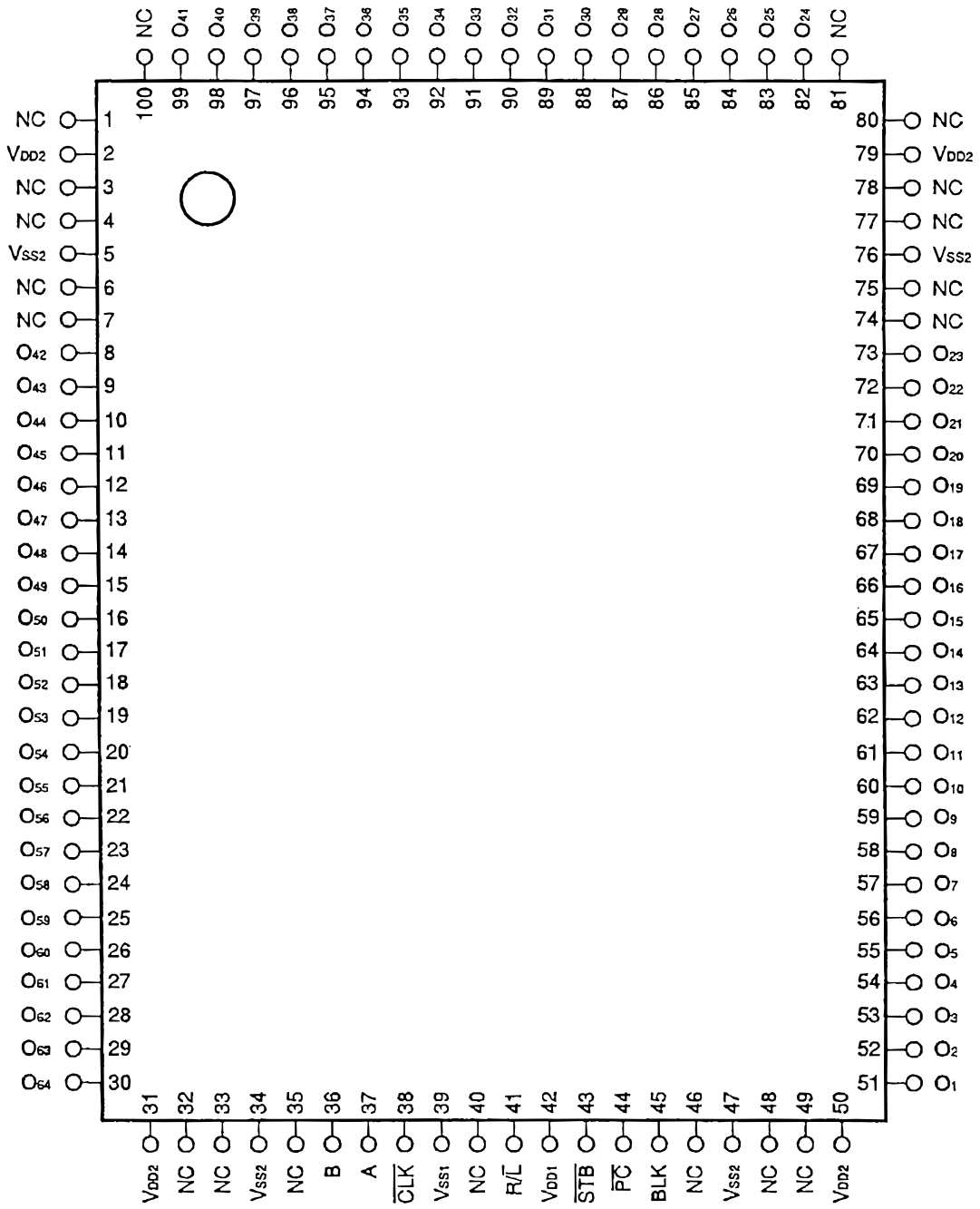
● Block Diagram



● Pin Function

PIN No.	PIN NAME	FUNCTIONS	INTERNAL EQUIVALENT CIRCUIT
1	Vout	Output pin	
2	NC	No connection	–
3	GND	Ground	–
4	Cn	Noise decrease pin	
5	Cont	Control pin Cont / 出力 Output H / ON L / OFF	
6	Sub	Substrate The 6pin must be connected to GND.	–
7	Vin	Input pin	

● Pin Arrangement



Cautions

1. **Be sure to leave pin 40 open because it is connected to the lead frame.**
2. **Be sure to use all the V_{DD1}, V_{DD2}, V_{SS1}, and V_{SS2} pins. Keep the V_{SS1} and V_{SS2} pins at the same voltage level.**
3. **Supply power to V_{DD1}, logic inputs, and V_{DD2} in this order to protect the device from destruction due to latch up. Turn off power in the reverse order.**
   Observe these power sequences even during a transition period.
4. **Since μPD16306B have a CMOS structure, be careful about electrical static destruction.**

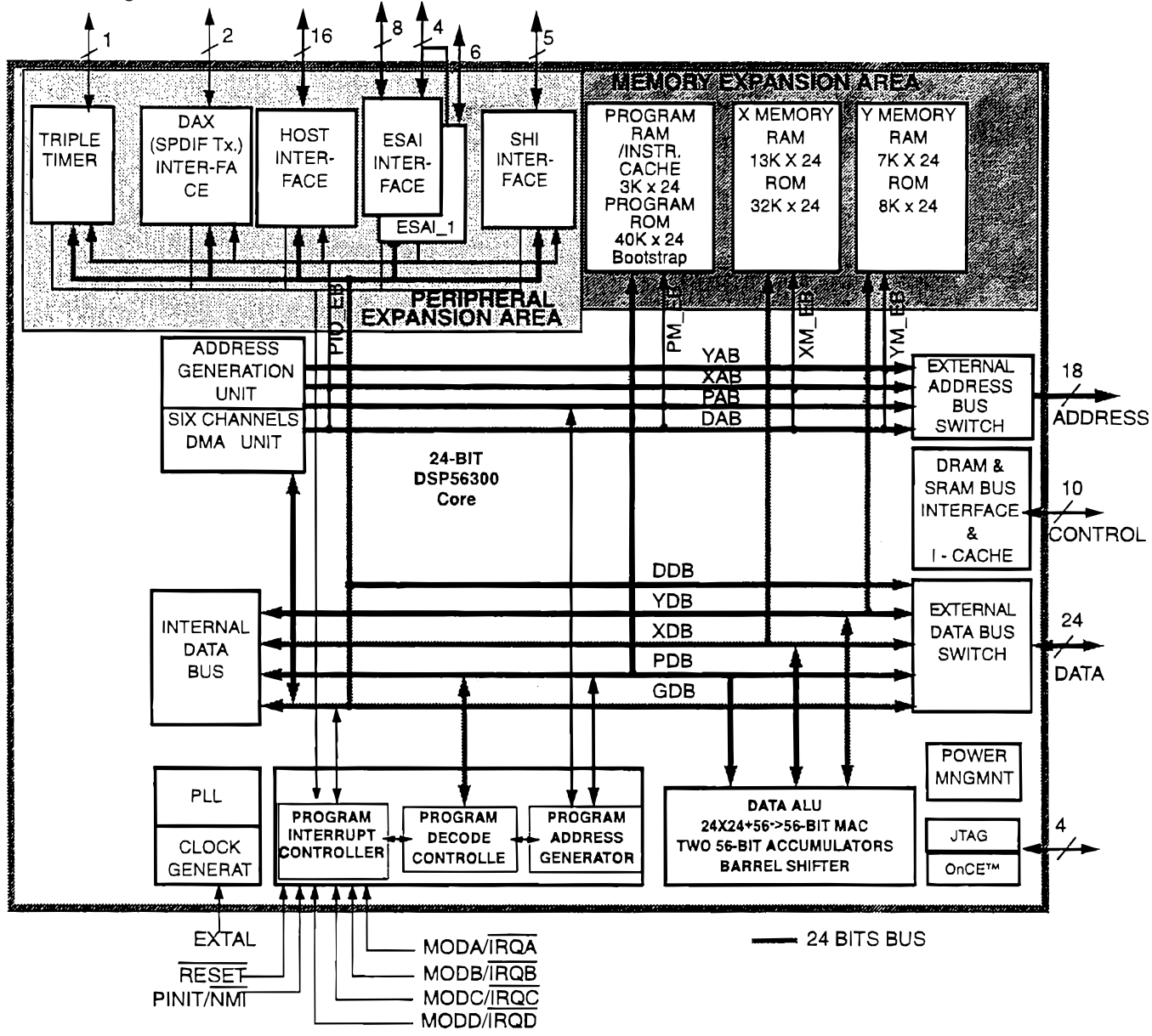
● Pin Function

Symbol	Pin Name	Pin Number	Description
PC	Polarity reverse input	44	PC=H : all output polarities reverse
BLK	Blanking input	45	BLK=H : all drive output = H or L
$\overline{STB}$	Latch strobe input	43	L : data through, H : data hold
A	Right data I/O	37	R/$\overline{L}$ = H A : input B : output R/$\overline{L}$ = L A : output B : input
B	Left data I/O	36	
$\overline{CLK}$	Clock input	38	Executes shift at falling edge
R/$\overline{L}$	Shift direction control input	41	H : right shift mode A → $O_1 \cdots O_{64}$ → B L : left shift mode B → $O_{64} \cdots O_1$ → A
$O_1 \sim O_{64}$	High voltage output	51to73, 82to99 8to30	80V、50mA MAX.
V_{DD1}	Logic power supply	42	5V±10%
V_{DD2}	Drive power supply	2, 31, 50, 79	10～70V
V_{SS1}	Logic ground	39	connect to system ground
V_{SS2}	Drive ground	5, 34, 47, 76	connect to system ground
NC	Vacant pin	1, 3, 4, 6, 7, 32, 33, 35 40, 46, 48, 49, 74, 75 77, 78, 80, 81, 100	No Connection Be sure to leave pin 40 open.

■ XCA56367PV150 (MAIN ASSY : IC401, IC501)

• 24-Bit Digital Signal Processor

● Block Diagram



● Pin Function

Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.
A0	72	D9	113	GNDS	9	SDO0/SDO0_1	4
A1	73	D10	114	GNDS	26	SDO1/SDO1_1	5
A2	76	D11	115	HA8/HA1	32	SDO2/SDI3/SDO2_1 /SDI3_1	6
A3	77	D12	116	HA9/HA2	31	SDO3/SDI2/SDO3_1 /SDI2_1	7
A4	78	D13	117	HACK/HRRQ	23	SDO4/SDI1	10
A5	79	D14	118	HAD0	43	SDO4_1/SDI1_1	138
A6	82	D15	121	HAD1	42	SDO5/SDI0	11
A7	83	D16	122	HAD2	41	SDO5_1/SDI0_1	48
A8	84	D17	123	HAD3	40	SS#/HA2	2
A9	85	D18	124	HAD4	37	TA#	62
A10	88	D19	125	HAD5	36	TCK	141
A11	89	D20	128	HAD6	35	TDI	140
A12	92	D21	131	HAD7	34	TDO	139
A13	93	D22	132	HAS/HA0	33	TIO0	29
A14	94	D23	133	HCKR	17	TMS	142
A15	97	EXTAL	55	HCKT	16	VCCA	74
A16	98	FSR	13	HCS/HA10	30	VCCA	80
A17	99	FSR_1	59	HDS/HWR	21	VCCA	86
AA0	70	FST	12	HOREQ/HTRQ	24	VCCC	57
AA1	69	FST_1	50	HREQ#	3	VCCC	65
AA2	51	GNDA	75	HRW/HRD	22	VCCD	103
ACI	28	GNDA	81	MODA/IRQA#	137	VCCD	111
ADO	27	GNDA	87	MODB/IRQB#	136	VCCD	119
BB#	64	GNDA	96	MODC/IRQC#	135	VCCD	129
BG#	71	GNDC	58	MODD/IRQD#	134	VCCH	38
BR#	63	GNDC	66	MISO/SDA	144	VCCQH	20
CAS#	52	GNDD	104	MOSI/HA0	143	VCCQH	95

Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.
D0	100	GNDD	112	PCAP	46	VCCQH	49
D1	101	GNDD	120	PINIT/NMI#	61	VCCQL	18
D2	102	GNDD	130	RD#	68	VCCQL	56
D3	105	GNDH	39	RESET#	44	VCCQL	91
D4	106	GNDP	47	SCK/SCL	1	VCCQL	126
D5	107	GNDQ	19	SCKR	15	VCCP	45
D6	108	GNDQ	54	SCKR_1	60	VCCS	8
D7	109	GNDQ	90	SCKT	14	VCCS	25
D8	110	GNDQ	127	SCKT_1	53	WR#	67

■ PD3431A9 (MAIN ASSY : IC300)

• Mecha. Control CPU

● Pin Function (1/3)

No.	Mark	Pin Name	I/O	Description
1	Vcc	-	-	Power supply (VD5V)
2	PB0	XDMUTE1	O	Driver IC mute control (0: MUTE 1: MUTE release)
3	PB1	-	I	It connects with Vss.
4	PB2	FCSG	O	A focus gain is changed.
5	PB3	CRC	O	CRC check result of a sub code (NG 1: 0: O.K.)
6	PB4	XFEPRST	O	FEP reset pulse (0: Reset 1: Reset release)
7	PB5	XDSCRST	O	ADSC reset pulse (0: Reset 1: Reset release)
8	PB6	LDONM	I	LD ON (0: usually 1: LD on-mode)
9	PB7	-	O	NC
10	FEW	WFLASH	I	The write-in enable signal of a flash memory
11	Vss	-	-	GND
12	TxD0	CPUDTIN	O	The serial output to FEP/ADSC
13	TxD1	REMO	O	The serial output to a personal computer/remote control
14	RxD0	CPUDTOUT	I	The serial input from FEP/ADSC
15	RxD1	REMI	I	The serial input to a personal computer/remote control
16	SCK0	SCK	O	The serial communication clock with FEP/ADSC
17	P95	WFLASH	O	The write-in control signal of a flash memory
18	P40	TKS	O	The slice level of TE is chosen. (zero: high-speed 1: low speed)
19	P41	INSW	I	Slider Inside detection switch
20	P42	XDMUTES	O	Stepper control
21	P43	DSPSTOP	O	Read-out of DSP is forbidden.
22	Vss	-	-	GND
23	P44	-	O	NC
24	P45	-	O	NC
25	P46	GSW	O	OEIC gain selection (0: Low 1: Hi)
26	P47	TMODE	I	Test mode (0: It shifts to test mode)
27	D0	D0	I/O	Data bus
28	D1	D1	I/O	
29	D2	D2	I/O	
30	D3	D3	I/O	
31	D4	D4	I/O	
32	D5	D5	I/O	
33	D6	D6	I/O	
34	D7	D7	I/O	
35	Vcc	-	-	Power supply (VD5V)
36	A0	A0	O	Address bus
37	A1	A1	O	
38	A2	A2	O	
39	A3	A3	O	
40	A4	A4	O	

● Pin Function (2/3)

No.	Mark	Pin Name	I/O	Discription
41	A5	A5	O	Address bus
42	A6	-	I	It connects with Vss.
43	A7	-	I	
44	Vss	-	-	GND
45	A8	-	I	It connects with Vss.
46	A9	-	I	
47	A10	-	I	
48	A11	-	I	
49	A12	-	I	
50	A13	-	I	
51	A14	-	I	
52	A15	-	I	
53	A16	-	I	
54	A17	-	I	
55	P52	LPS1	I	A loading mechanism's condition
56	P53	LPS2	I	
57	Vss	-	-	GND
58	WAIT	-	I	It connects with Vss.
59	P61	-	I	
60	P62	ILMASK	O	The mask of the Interruption circuit is carried out.
61	P67	-	I	It connects with Vss.
62	STBY	XSTBY	I	It connects with Vss.
63	RES	XMRST	I	Reset input (0:reset 1:reset release)
64	NMI	NMI	I	It connects with Vss.
65	Vss	Vss	-	GND
66	EXTAL	EXTAL	I	(20MHz)
67	XTAL	XTAL	I	(20MHz)
68	Vcc	Vcc	-	Power supply (VD5V)
69	AS	-	O	NC
70	RD	XRD	O	Read strobe signal
71	S39/PE7	XWR	O	Write strobe signal
72	VDD4	-	O	NC
73	S40/PF0	MD0	I	CPU mode setup
74	S41/PF1	MD1	I	
75	S42/PF2	MD2	I	
76	S43/PF3	-	-	Power supply (VD3V)
77	S44/PF4	-	-	
78	S45/PF5	HI	I	Function (Analog)
79	S46/PF6	RFDIF	I	
80	S47/PF7	VHALF	I	Function

● Pin Function (3/3)

No.	Mark	Pin Name	I/O	Description
81	AN3	OFTR	I	Function
82	P74	-	I	It connects with Vss.
83	AN5	P75	I	The monitor of ST1
84	DA0	ST1	O	Stepper drive (analog)
85	DA1	ST2	O	
86	AVss	-	-	Analog GND
87	IRQ0	MBLKCK	I	The interruption demand from FPGA
88	IRQ1	BLKCK	I	
89	IRQ2	CPUIRQ	I	
90	P83	-	I	It connects with Vss.
91	P84	-	I	
92	Vss	-	-	GND
93	PA0	OFTR	I	Function
94	TCLKB	TKCNT	I	Track pulse input (pulse width is measured and speed is detected)
95	PA2	ENC	O	Serial input enable of ADSC CIRC part (0: permission 1: prohibition)
96	PA3	ENS	O	Serial input enable of ADSC part (0: permission 1: prohibition)
97	PA4	TKCNT	I	Track pulse input
98	PA5	XDMUTE2	O	Driver IC mute control (0:MUTE 1:MUTE release)
99	PA6	FESEN	O	FEP serial input enable (0: permission 1: prohibition)
100	TIOCB2	FG	I	FG pulse input

■ PD3431A9 (MAIN ASSY : IC201)

• System Control CPU

● Pin Function (1/3)

No.	Pin Name	I/O	Descreption
1	Vcc	-	By the capacitor (0.1µF) It GND-connects.
2	DGP2	I	Motorola DSP (preceding paragraph) Interface
3	XHREQ1	I	
4	XHREQ2	I	Motorola DSP (latter part) Interface
5	XSS1	O	Motorola DSP (preceding paragraph) Interface
6	XSS2	O	Motorola DSP (latter part) Interface
7	DOSW	I	Digital OUT ON/OFF SW detection
8	CNT2	I	Control 2 input terminal
9	CNT1	I/O	Control 1 input and output terminal
10	WFlLSH	I	The terminal which detects a flash write-in permission signal
11	Vss	-	Digital GND
12	S2DO	O	The serial output terminal to DSP
13	S1DO	O	A serial output besides a controller
14	S2DI	I	The serial input from DSP
15	S1DI	I	A serial input besides a controller
16	S2CK	O	The serial clock to DSP
17	S1CK	O	A serial clock besides a controller
18	XFRST	O	Reset to FPGA
19	XSRST	O	Reset to circumference IC
20	ASWC	O	Serial change SW enable
21	MUTE	O	Line OUT output MUTE
22	Vss	-	Digital GND
23	MON2	O	Monitor terminal 2
24	XZOFF	O	The terminal for repealing zero detection
25	XDRST	O	The reset terminal for DAC
26	NC	-	-
27	D0	-	FPGA interface (data bus)
28	D1	-	
29	D2	-	
30	D3	-	
31	D4	-	
32	D5	-	
33	D6	-	
34	D7	-	
35	Vcc	-	Power supply (VD5V)
36	A0	-	FPGA interface (data bus)
37	A1	-	
38	A2	-	
39	A3	-	
40	A4	-	

● Pin Function (2/3)

No.	Pin Name	I/O	Description
41	NC	O	It connects with GND.
42	NC	I	
43	NC	I	
44	Vss	-	Digital (GND)
45	NC	I	It connects with GND.
46	NC	I	
47	NC	I	
48	NC	I	
49	NC	I	
50	NC	I	
51	NC	I	
52	NC	I	
53	NC	I	
54	NC	I	
55	KEYI	I	The key processing demand from front CPU
56	TCH	I	JIG touch sensor input
57	Vss	-	Digital GND
58	NC	I	It connects with GND.
59	XMDT	I	MMC detection signal
60	DONE	O	The initialization end signal from FPGA
61	20M	I	It connects with GND.
62	STBY	I	Low power consumption mode
63	XRST	I	Hard reset
64	NMI	I	Compulsive interruption
65	Vss	-	Digital GND
66	EXTAL	I	Crystal oscillation
67	XTAL	I	
68	Vcc	-	Digital 5V
69	NC	O	-
70	XSRD	O	FPGA Read
71	XSWR	O	FPGA Wright
72	NC	O	-
73	MD0	I	CPU mode setup
74	MD1	I	
75	MD2	I	
76	Avcc	-	The power supply terminal of A/D conversion machine, and D/A conversion machine
77	VREF	-	The standard voltage input terminal of A/D conversion machine, and D/A conversion machine
78	ADCT	I	Slider center value
79	ADIN	I	Slider data value
80	NC	I	It connects with GND.

● Pin Function (3/3)

No.	Pin Name	I/O	Description
81	NC	I	It connects with GND.
82	NC	I	
83	NC	I	
84	NC	O	
85	NC	O	
86	AVss	-	The grand terminal of A/D conversion machine, and D/A conversion machine
87	JOG1	I	JOG pulse input 1
88	JOG2	I	JOG pulse input 2
89	DQCK	I	Motorola DSP (preceding paragraph) Interface
90	NC	I	It connects with GND.
91	RMIN	I	For a RS232C input
92	Vss	-	GND
93	XMEN	I	MMC chip enable
94	XDEN	I	DAC communication enable
95	ICDT	O	EEPROM data output
96	ICCK	O	EEPROM clock output
97	HRST	I	MMC hard reset output
98	NC	O	It connects with GND.
99	XPRGM	O	FPGA program permission signal
100	XINT	I	-

■ PE5243A (MFLB ASSY : IC1101)

• Disply Control CPU

● Pin Function (1/3)

No.	Mark	Pin Name	I/O	Description
1	VDD	-	-	Power supply (VD5V)
2	P37	LED15, Model distinction	O	LOUT, and NEXT / NET distinction
3	P36/BUZ	LED14	I	LIN
4	P35/PCL	LED13	O	CRED
5	P34/TI2	LED12	O	CGREEN
6	P33/TI1	LED11	O	BRED
7	P32/TO2	LED10	O	BGREEN
8	P31/TO1	LED9	O	ARED
9	P30/TO0	LED8	O	AGREEN
10	RESET	RESET	I	RESET
11	X2	CLOCK	-	(5MHz)
12	X1	CLOCK	-	(5MHz)
13	IC	GND	-	-
14	XT2	NC	-	-
15	P04/XT1	SW0	I	Reverse Switch
16	VDD	-	-	-
17	P27/SCK0	SCLK1	I	The clock input from host CPU
18	P26/SO0/SB1	SDO1	O	The data output to host CPU
19	P25/SI0/SB0	SDI1	I	The data input from host CPU
20	P24/BUSY	ENABLE	O	The enable output to host CPU
21	P23/STB	BLK	O	The blank output to FL drive
22	P22/SCK1	SCLK2	O	The clock output to FL driver
23	P21/SO1	SDO2	O	The strike robe to FL driver
24	P20/SI1	STB	O	NC
25	Avss	GND	-	GND
26	P17/ANI7	LED5	I	-
27	P16/ANI6	KEYAD5	I	Key input
28	P15/ANI5	KEYAD4	I	
29	P14/ANI4	KEYAD3	I	
30	P13/ANI3	KEYAD2	I	
31	P12/ANI2	KEYAD1	I	
32	P11/ANI1	VOL1	I	Turntable VOL
33	P10/ANI0	VOL2	I	
34	AVDD	VDD	-	Power supply (+5V)
35	AVREF	VDD	-	
36	P03/INT3/CI0	LED16	O	VINYL
37	P02/INTP2	LED7	O	CDJ
38	P01/INTP1	LED6	O	MT
39	P00/INTP/TI0	ELSW	I	Eject Switch
40	Vss	-	-	-

● Pin Function (2/3)

No.	Mark	Pin Name	I/O	Description
41	P74	LED4	O	TRES
42	P73	LED3	O	MMC
43	P72	LED2	O	CUE
44	P71	LED1	O	PLAY
45	P70	LED0	O	REVERSE
46	VDD	-	-	Power supply (5V)
47	P127/FIP52	S37	O	FL display
48	P126/FIP51	S36	O	
49	P125/FIP50	S35	O	
50	P124/FIP49	S34	O	
51	P123/FIP48	S33	O	
52	P122/FIP47	S32	O	
53	P121/FIP46	S31	O	
54	P120/FIP45	S30	O	
55	P117/FIP44	S29	O	
56	P116/FIP43	S28	O	
57	P115/FIP42	S27	O	
58	P114/FIP41	S26	O	
59	P113/FIP40	S25	O	
60	P112/FIP39	S24	O	
61	P111/FIP38	S23	O	
62	P110/FIP37	S22	O	
63	P107/FIP36	S21	O	
64	P106/FIP35	S20	O	
65	P105/FIP34	S19	O	
66	P104/FIP33	S18	O	
67	P103/FIP32	S17	O	
68	P102/FIP31	S16	O	
69	P101/FIP30	S15	O	
70	P100/FIP29	S14	O	
71	P97/FIP28	S13	O	
72	P96/FIP27	S12	O	
73	P95/FIP26	S11	O	
74	P94/FIP25	S10	O	
75	P93/FIP24	S9	O	
76	P92/FIP23	S8	O	
77	P91/FIP22	S7	O	
78	P90/FIP21	S6	O	
79	VLOAD	-	-	-
80	P87/FIP20	S5	O	FL display

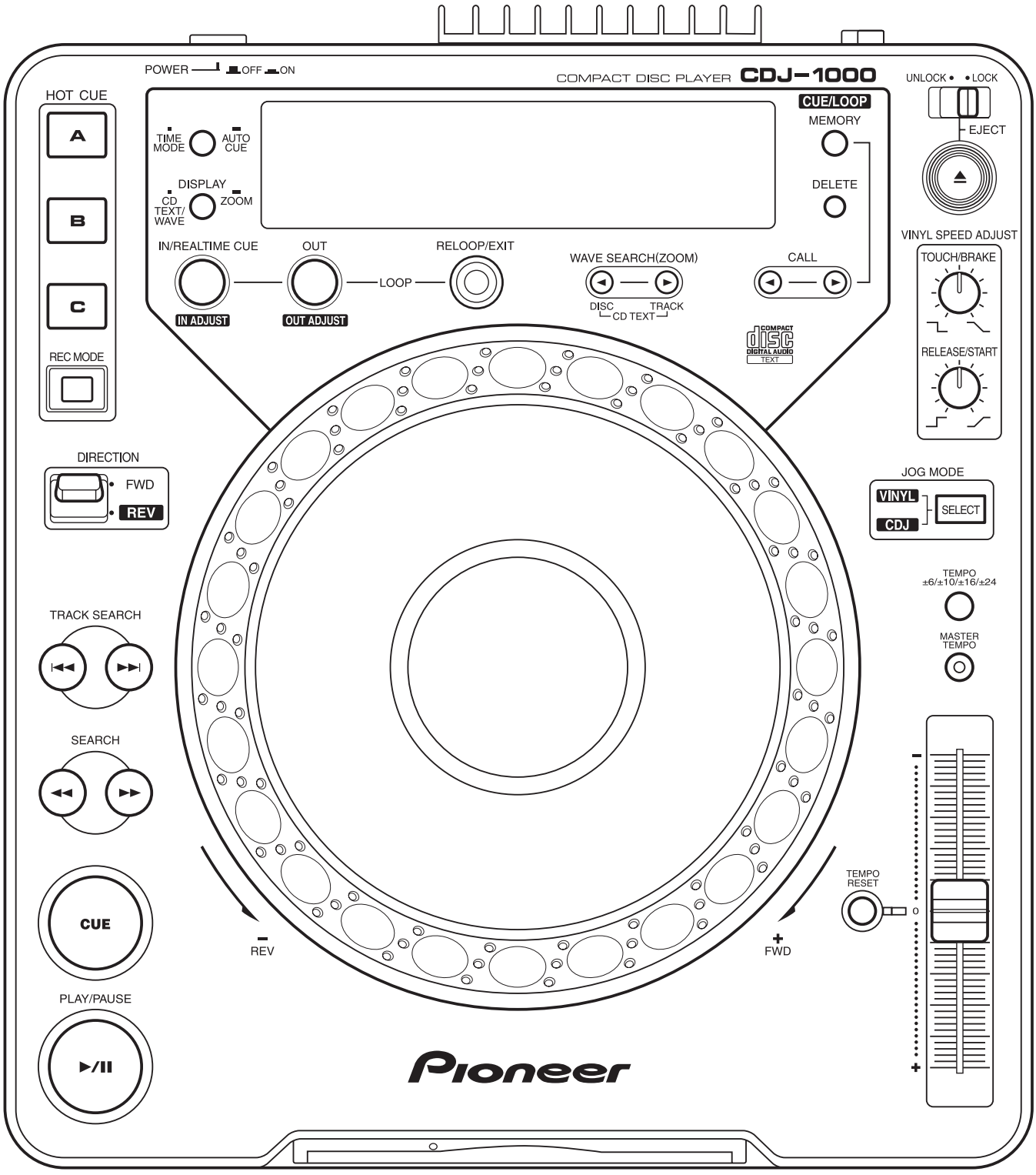
● Pin Function (3/3)

No.	Mark	Pin Name	I/O	Description
81	P86/FIP19	S4	O	FL display
82	P85/FIP18	S3	O	
83	P84/FIP17	S2	O	
84	P83/FIP16	S1	O	
85	P82/FIP15	G16	O	
86	P81/FIP14	G15	O	
87	P80/FIP13	G14	O	
88	FIP12	G13	O	
89	FIP11	G12	O	
90	FIP10	G11	O	
91	FIP9	G10	O	
92	FIP8	G9	O	
93	FIP7	G8	O	
94	FIP6	G7	O	
95	FIP5	G6	O	
96	FIP4	G5	O	
97	FIP3	G4	O	
98	FIP2	G3	O	
99	FIP1	G2	O	
100	FIP0	G1	O	

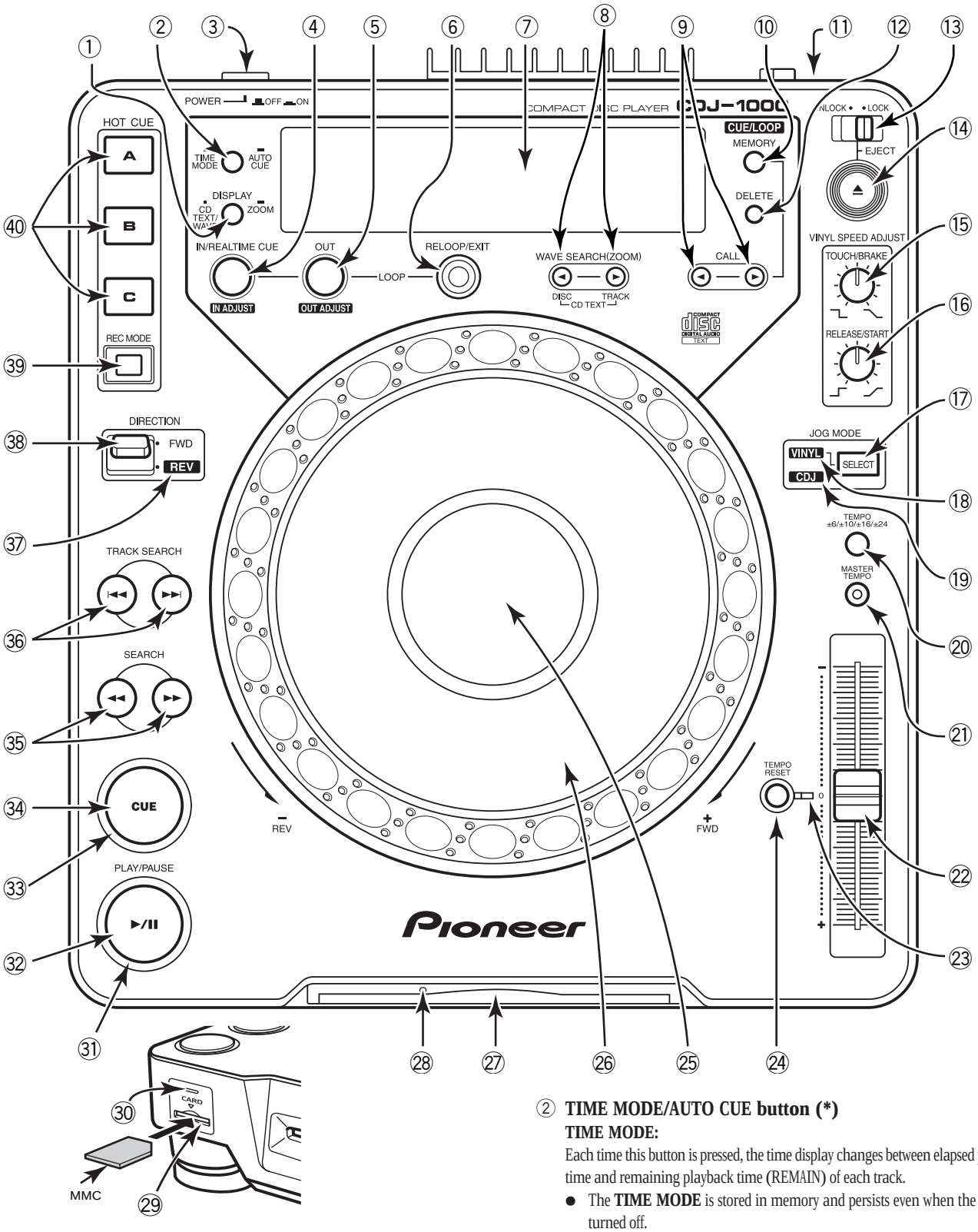
8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Panel



buttons indicated by * cannot be used in digital mode.



① **DISPLAY CD TEXT/WAVE (ZOOM) button (*)**

Each press of this button toggles the display between WAVE display and CD-TEXT disc/track title display. When the button is held down for 1 second or longer, the WAVE display cycles between the 1 track full-scale and 2x zoom scale.

② **TIME MODE/AUTO CUE button (*)**

TIME MODE:

Each time this button is pressed, the time display changes between elapsed playback time and remaining playback time (REMAIN) of each track.

- The **TIME MODE** is stored in memory and persists even when the power is turned off.

AUTO CUE:

Hold down this key for 1 second or longer to toggle between **AUTO CUE** on and off. ☞ P.11

- **AUTO CUE** on/off status is stored in memory and persists even when the power is turned off.

③ **POWER switch OFF ■/ON ▂**
This switch is located on the rear panel of the unit.

④ **LOOP IN/REALTIME CUE/IN ADJUST button/indicator (*)**
Real-time cue
Enter loop in point
Loop in point adjust

⑤ **LOOP OUT/OUT ADJUST button/indicator (*)**
Enter loop out point
Loop out point adjust

⑥ **RELOOP/EXIT button (*)**

⑦ **Display**

⑧ **WAVE SEARCH (ZOOM)/CD TEXT buttons (◄, ►) (*)**
This button moves the displayed area when WAVE is in zoom display mode.
In the TEXT display mode, pressing the ◄ button will display the disc title and pressing the ► button will display the track title.

⑨ **CUE/LOOP CALL buttons (◄, ►) (*)**
Calls Cue points and Loop points stored in internal memory or external memory (when a memory card is inserted). (When a memory card is inserted, the external memory takes precedence.)

⑩ **CUE/LOOP MEMORY button (*)**
Stores Cue points and Loop points in internal memory or external memory (when a memory card in inserted). (When a memory card is inserted, the external memory takes precedence.)

⑪ **Digital Mode switch (ON/OFF)**
This switch is located on the rear panel of the unit. Set to ON when the digital output is to be used. When set to On, the DJ functions do not function. (Functions marked * do not operate in this mode.) And the muted pause mode is used instead of the audible pause mode.

⑫ **CUE/LOOP DELETE button (*)**
Deletes Cue points or Loop points stored in internal memory or external memory (when memory card is inserted). (When a memory card is inserted, the external memory takes precedence.)

⑬ **EJECT UNLOCK/LOCK switch**
UNLOCK: In this mode the disc can be ejected even during playback.
LOCK: In this mode, the disc cannot be ejected during playback. The disc can be ejected when in pause mode.

⑭ **EJECT button (⏏)**
When this button is pressed the disc is ejected through the disc insertion slot when it stops rotating. When the **EJECT UNLOCK/LOCK** switch is set to [LOCK] position, the disc can only be ejected when in pause mode.

⑮ **VINYL SPEED ADJUST TOUCH/BRAKE dial (*)**
When the **JOG MODE SELECT** button is set to [VINYL] position, you can use this dial to adjust the speed by which the playback stops when the surface of the Jog dial is pressed.
Playback stops faster as the dial is turned counterclockwise and stops slower as the dial is turned clockwise.

⑯ **VINYL SPEED ADJUST RELEASE/START dial (*)**
When the **JOG MODE SELECT** button is set to [VINYL] pos tion, you can use this dial to adjust the speed by which playback starts after you take your hand off the surface of the Jog dial. Playback starts normal speed faster as the dial is turned counterclockwise and takes longer time to return to normal speed when turned clockwise.

⑰ **JOG MODE SELECT button (*)**
VINYL mode: when the surface of the Jog dial is pressed during playback, playback stops and if the dial is rotated, music is output according to the speed the dial is turned.
- The **JOG MODE** is stored in memory and remains in memory even if the power is turned off.

CDJ mode: above operation is not performed even when the Jog dial surface is pressed.

⑱ **VINYL indicator (*)**
This indicator lights when the **JOG MODE** is in **VINYL** mode.

⑲ **CDJ indicator (*)**
This indicator lights when the **JOG MODE** is in **CDJ** mode.

⑳ **TEMPO Control Range button ±6/±10/±16/±24 (*)**
Each time the button is pressed, the range changes (±6%/±10%/±16%/±24%).

㉑ **MASTER TEMPO button/indicator (*)**
Each press of the button turns the master tempo function on or off.

㉒ **Tempo Control knob (*)**
Slide the knob towards you (+) to increase the tempo and slide it away from you (–) to decrease it.

㉓ **Tempo Reset indicator (*)**
Shows that the tempo has been reset to [0] (normal tempo) regardless of the position of the **Tempo Control** knob.

㉔ **TEMPO RESET button (*)**
Resets the tempo to [0] (normal tempo) regardless of the position of the **Tempo Control** knob. Press button once more to release it.

㉕ **Jog Dial Display**

㉖ **Jog dial (+FWD/–REV) (*)**

㉗ **Disc Loading Slot**

㉘ **Force Ejection Hole**

㉙ **Memory Card Loading Slot**

㉚ **Memory Card indicator**
Lights when the MMC card is being accessed.
- Do not remove the card or turn off the power when this lamp is on.

㉛ **Play/Pause indicator (►/❚❚)**
Lights during play and flashes during pause.

㉜ **PLAY/PAUSE button (►/❚❚)**

㉝ **CUE indicator (*)**
Lights when a Cue point is set and a search is not being performed. Flashes in pause mode.

㉞ **CUE button (*)**
Cue point settings
Cue point sampler
Back cue

㉟ **SEARCH button (◄◄, ►►)**

㊱ **TRACK SEARCH button (|◄◄, ►►|)**

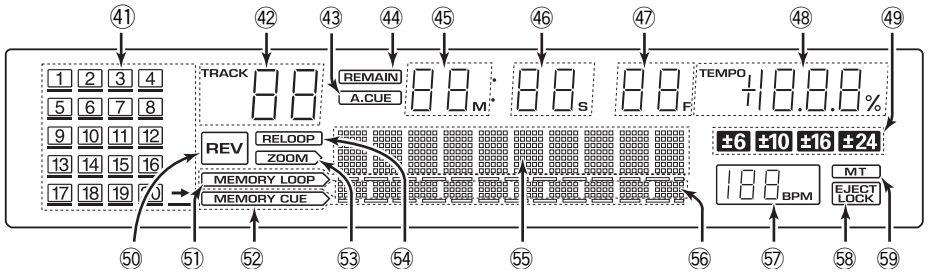
㊲ **Reverse indicator (REV) (*)**
Lights when the **DIRECTION FWD/REV** switch is set to reverse.

㊳ **DIRECTION FWD/REV switch (*)**
Plays tracks backwards when set to the [REV] position (forward position).

㊴ **HOT CUE REC MODE button (*)**
Switches **HOT CUE** button function (REC/CALL).
- It is set to call when the power is turned on.

㊵ **HOT CUE A, B, C button/indicator**
It is set to hot cue point recording mode when **A**, **B** and **C** light in red.
It is set to call mode when **A**, **B** and **C** light in green. When the button is pressed, playback starts from the hot cue point. It is off when no hot cue point has been recorded.

■ Display



㊶ Calendar display (1 – 20, ➡)

TRACK numbers beyond the current track lights. When the next track is 21 or beyond, ➡ lights. When Cue points or loops are stored, an underscore lights in the corresponding **TRACK** numbers.

㊷ TRACK Number indicator

Displays **TRACK** numbers.

㊸ Auto Cue indicator (A. CUE)

Lights when auto cue is on.

㊹ REMAIN indicator

Indicates that track remaining time is being displayed.

㊺ Time display (min) (M)

㊻ Time display (sec) (S)

㊼ Frame display (F)

One second is 75 frames.

㊽ Playback Tempo display (TEMPO)

Indicates the rate of change in the playback tempo.

㊾ Tempo Adjustment Range indicator (±6, ±10, ±16, ±24)

Indicates the variable range of the **Tempo Control** knob selected with the **TEMPO Control Range** button.

㊿ Reverse indicator (REV)

Indicates that the **DIRECTION FWD/REV** switch is set to reverse ([REV] position).

(51) MEMORY LOOP indicator

Displays the selected track loop memory position above the playback address display (13 points). Even when there may be several memory points in the same block, only one lights.

(52) MEMORY CUE indicator

Displays the selected cue memory positions under the playback address display (13 points). Even when there may be several memory points in the same block, only one lights.

(53) ZOOM indicator

Indicates that WAVE is indicated in zoom mode.

(54) RELOOP indicator

Lights when the unit is in reloop standby or performing a loop.

(55) Wave/Text display

When WAVE is displayed the music level of the current track.

The level is indicated either in 1-track full scale, or zoom when only part of the track is shown. In the zoom mode, the display area is moved using the **WAVE SEARCH (ZOOM)** buttons (◄, ►).

CD TEXT will be displayed in the TEXT mode.

The contents of the display is the disc title and track title in English upto a maximum of 48 letters which can be scrolled.

(56) Playback Address display

Indicates elapsed playback time and remaining playback time in an easy to grasp 1-track full scale or 2x zoom scale bar graph.

- The 1-track full scale mode shows elapsed time by lit segments from the left.
- The 1-track full scale mode shows remaining time by unlit segments from the left.
- When the remaining time is 30 seconds or less, the display flashes gently and the flashing becomes faster when there is 15 seconds or less left.
- In the 2x zoom scale mode, only the playback position is lit for the WAVE display.

(57) BPM Counter

Indicates BPM for the current track.

The BPM counter may sometimes not be able to measure the BPM of a track.

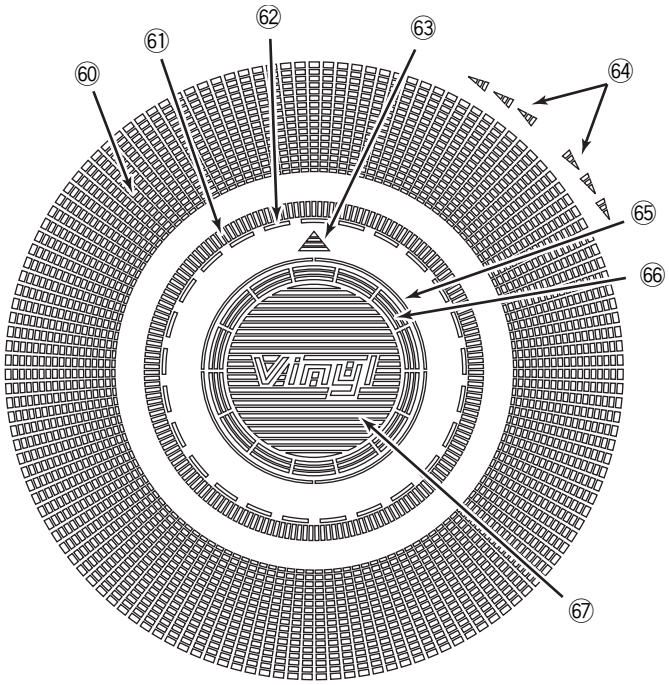
(58) EJECT LOCK indicator

Lights when the **EJECT UNLOCK/LOCK** switch is set to the [LOCK] position.

(59) Master Tempo indicator (MT)

Lights when the master tempo function is on.

Jog Dial Display



⑥⓪ **Operation display**
Indicates play position in frames 135 frames for one full rotation. Turns during playback and stops during pause.

⑥① **All Track display**
Indicates track currently being played.

⑥② **Memory Cue/ Loop display**
Lights when there is a MEMORY CUE or LOOP in a track.

⑥③ **All Track Display Reference Point**
Displays the first track starting point of the disc.

⑥④ **Direction display**
This display the direction of the playback.

⑥⑤ **Display the condition of the audio memory**
When set in the audio memory display mode the light will flash when recording.

⑥⑥ **Displays the condition of the VINYL mode movement**
Lights up when there is a pause or when the Jog dial is touched in the **VINYL** mode.

⑥⑦ **VINYL mode display.**
Lights up in the **VINYL** mode.

8.2 SPECIFICATIONS

■CDJ-1000/ KUC type

1. General

System ..... Compact disc digital audio system
Power requirements ..... AC 120 V, 60 Hz
Power consumption ..... 33 W
Operating temperature ..... +5˚C – +35˚C
Operating humidity ..... 5% – 85%
(There should be no condensation of moisture.)
Weight ..... 4.2 kg (9.26 lb)
Dimensions ..... 320 (W) x 370 (D) x 105 (H) mm
12 – 5/8 (W) x 14 – 9/16 (D) x 4 – 1/8 (H) in

2. Audio section

Frequency response ..... 4 Hz – 20 kHz
Signal-to-noise ratio ..... 115 dB or more (EIAJ)
Distortion ..... 0.006% (EIAJ)

3. Accessories

- Operating instructions 1
- Power cord 1
- Audio cable 1
- Control cord 1
- Forced eject pin
  (housed in a groove in the bottom panel) 1
- Limited warranty 1

NOTE:

Specifications and design are subject to possible modification without notice.

■CDJ-1000/ WY type

1. General

System ..... Compact disc digital audio system
Power requirements ..... AC 220 -240V, 50/60 Hz
Power consumption ..... 31 W
Operating temperature ..... +5˚C – +35˚C
Operating humidity ..... 5% – 85%
(There should be no condensation of moisture.)
Weight ..... 4.2 kg (9.26 lb)
Dimensions ..... 320 (W) x 370 (D) x 105 (H) mm
12 – 5/8 (W) x 14 – 9/16 (D) x 4 – 1/8 (H) in

2. Audio section

Frequency response ..... 4 Hz – 20 kHz
Signal-to-noise ratio ..... 115 dB or more (EIAJ)
Distortion ..... 0.006% (EIAJ)

3. Accessories

- Operating instructions 1
- Power cord 1
- Audio cable 1
- Control cord 1
- Forced eject pin
  (housed in a groove in the bottom panel) 1
- Limited warranty 1

NOTE:

Specifications and design are subject to possible modification without notice.

■CDJ-1000/ TL type

1. General

System ..... Compact disc digital audio system
Power requirements ..... AC 220 -240V, 50/60 Hz
Power consumption ..... 31 W
Operating temperature ..... +5˚C – +35˚C
Operating humidity ..... 5% – 85%
(There should be no condensation of moisture.)
Weight ..... 4.2 kg
Dimensions ..... 320 (W) x 370 (D) x 105 (H) mm

2. Audio section

Frequency response ..... 4 Hz – 20 kHz
Signal-to-noise ratio ..... 115 dB or more (EIAJ)
Distortion ..... 0.006% (EIAJ)

3. Accessories

- Operating instructions 1
- Power cord 1
- Audio cable 1
- Control cord 1
- Forced eject pin
  (housed in a groove in the bottom panel) 1

NOTE:

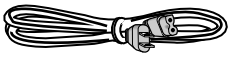
Specifications and design are subject to possible modification without notice.

■ Accessories

Audio Cable
(VDE1033) L=1.5m

Control Cord
(PDE1247) L=1 m

Power Cord
(KUC type : ADG7021
(TL, WY type: ADG1154)



Forced Eject Pin
(DEX1013)