

Service Manual

 **PIONEER**
The Art of Entertainment

ORDER NO.
RRV1754

CD CDV LD PLAYER

CLD-D606

- Refer to the service manual RRV1693 for CLD-D406/KU.

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

Type	Model	Power requirement	Remarks
	CLD-D606		
KU/CA	○	AC120V	

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923
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1. CONTRAST OF MISCELLANEOUS PARTS

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ 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.
 - Ref. No. : Numbers following P and hyphen (-) indicate the page (s) and location number (s) in the RRV1693 service manual, respectively.
 - 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	\rightarrow	56 $\times 10^1$	\rightarrow	561	.....	RD1/4PU	5 6 1 J
47k Ω	\rightarrow	47 $\times 10^3$	\rightarrow	473	.....	RD1/4PU	4 7 3 J
0.5 Ω	\rightarrow	R50	.....			RN2H	R 5 0 K
1 Ω	\rightarrow	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	\rightarrow	562 $\times 10^1$	\rightarrow	5621	RN1/4PC	5 6 2 1 F
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CONTRAST TABLE

CLD-D606/KU/CA and CLD-D406/KU have the same construction except for the following :

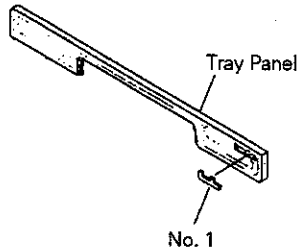
Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			CLD-D406/KU	CLD-D606/KU/CA	
PACKING					
P3- 1	NSP	Dry Cell Battery (R6P, AA)	VEM-013	Not used	
	NSP	Dry Cell Battery (R03, AAA)	Not used	VEM-022	
P3- 2		Video Cord	VDE1036	VDE1048	
P3- 8		Operating Instructions (English)	VRB1179	VRB1182	
P3- 10		Remote Control Unit (CU-CLD134)	VXX2400	Not used	
		Remote Control Unit (CU-CLD135)	Not used	VXX2412	
P3- 11		Battery Cover	VNK2806	VNK3668	
P3- 15		Packing Case	VHG1651	VHG1672	
EXTERIOR AND DISC TRAY SECTION					
P5- 4		Rear Cover	VNK3950	VNK4019	
P5- 18		Tray Panel	VNK3929	VNK4018	
		Laser Disc Badge	Not used	VAM1029	No. 1
TOP VIEW SECTION					
		YCPB Assy	Not used	VWV1502 *	No. 2
		Earth Plate	Not used	VNE1518	No. 3
		FCC Plate	Not used	VNE2086	No. 4
		Flexible Cable (10P)	Not used	VDA1550	No. 5
FRONT PANEL SECTION					
P8- 1		FLKY Assy	VWG1810	VWG1834 *	
P8- 2		KEYB Assy	VWG1811	Not used	
	NSP	KEYB Assy	Not used	VWG1836 *	
P8- 3		Name Plate	PAM1608	PAM1704	
P8- 6		Front Panel	VNK3926	VNK4017	
P8- 7		Sub Panel	VNK3931	VNK3979	
P8- 17	NSP	Getter Label	VRW1636	VRW1651	
BOTTOM VIEW SECTION					
P9- 1		MOTHER Assy	VWS1281	VWS1304 *	
P9- 3	Δ	POWER SUPPLY Assy	VWR1232	VWR1269 *	
P9- 7		Rear Panel R	VNA1606	VNA1734	
P9- 14	NSP	Chassis	VNA1461	VNA1564	
P9- 15		Rear Panel L	VNA1819	VNA1846	
P9- 20		AC Inlet Assy	VKP2126	Not used	
P9- 21	NSP	Fuse Caution Label (G)	VRW-548	Not used	
P9- 22		Caution Label	VRW1486	Not used	
		Spacer	Not used	REB1171	No. 6
		F.ICP Caution Label	Not used	VRW1590	No. 7

Note: • The numbers in the remarks column correspond to the numbers on "EXPLODED VIEWS". Refer to "EXPLODED VIEWS".
 • Marked " * " are refer to "PCB PARTS LIST"

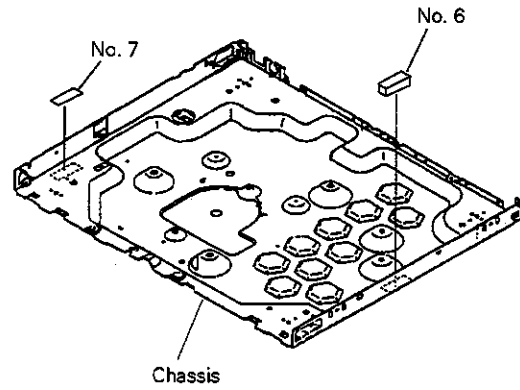
EXPLODED VIEWS

Note : The numbers on the exploded views correspond to the numbers in the remarks column of 'CONTRAST TABLE'.
Refer to 'CONTRAST TABLE'.

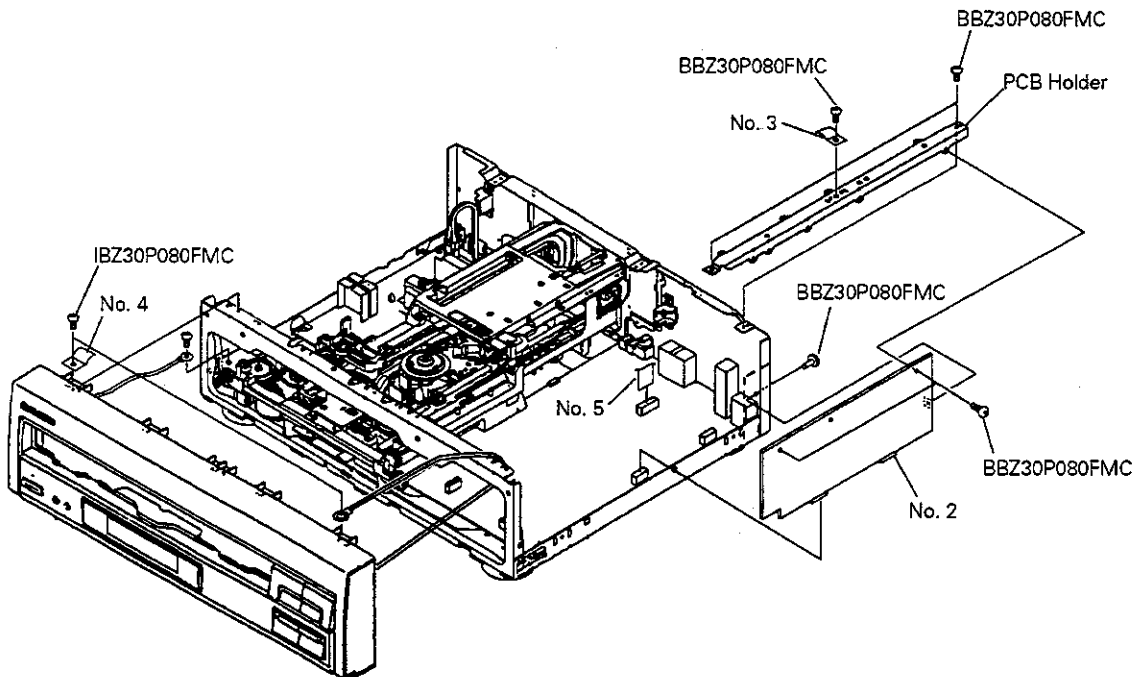
EXTERIOR AND DISC TRAY SECTION



BOTTOM VIEW SECTION



TOP VIEW SECTION



CLD-D606

PCB PARTS LIST

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
△		POWER SUPPLY ASSY	VWR1269
NSP		MOTHER ASSY	VWM1754
		└ MOTHER ASSY	VWS1304
NSP		FLKB ASSY	VWM1755
		└ FLKY ASSY	VWG1834
NSP		└ KEYB ASSY	VWG1836
		YCPB ASSY	VWV1502

F POWER SUPPLY ASSY SEMICONDUCTORS

	IC201	HA17431P
△	IC210	ICP-N15
△	IC211	ICP-N20
	IC202	UPC358C
	Q207, Q208, Q214	2SA933S
	Q205, Q206, Q210	2SC1740S
△	Q102, Q103	2SC3377
△	Q213	2SD2007
△	Q203, Q204	T7F4S
△	Q201, Q202	T7F4T
△	Q101	VZF1037
△	Q209	VZF1040
	D206	VZF1039
△	D104	1SS270A
	D209-D212, D216	AG01Z-V0
△	D101	D2SB60F4004
△	D102	EG01C
△	D105	K1V24
△	D103	MTZJ2.7B
	D218	MTZJ8.2B
△	D200	PS2501L1-1M
	D207	RD33FB2
	D202, D203	S3LA20
	D204	S3S4M

RESISTORS

△	R257	(68Ω, 1/4W)	VCN1048
△	R258	(8.2Ω, 1/4W)	VCN1050
△	R256	(0.22Ω, 1/2W)	VCN1055

OTHERS

△	F101	FUSE (2A)	REK1078
△	F203	FUSE (136°C)	VEK1033
△	F201, F202	FUSE (136°C)	VEK1034
△	F204, F205	FUSE (1A/125V)	VEK1036

MOTHER ASSY

OTHERS

	PC BOARD MOTHER	VNP1554
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Mark	No.	Description	Part No.
G F MOTHER ASSY SEMICONDUCTORS			
	IC351	CA0002AM	
	IC803	LA6510	
	IC400	LA7134M	
	IC901	LA9420M	
	IC801	LA9425	
	IC802	LC78620E	
	IC703	MC14577CP	
	IC500	PD0234A	
	IC101	PD0245A2	
	IC902	TA8410AK	

	IC804	TC4W53F
	IC502	UPD42280GU-30
	IC904	XLA10393F
	IC202, IC903, IC905	XLA4560F
	Q1001, Q102, Q753, Q916	2PB709A

	Q201, Q202, Q391, Q393, Q394	2PD601A
	Q451, Q475, Q805, Q9001	2PD601A
	Q903, Q904, Q907, Q908, Q915	2PD601A
	Q917	2PD601A
	Q834	2SA854S

	Q411, Q803	2SC2412K
	Q152	2SC3802K
	Q204, Q205	2SD2144S
	Q208, Q301, Q302, Q392, Q918	DTA124EK
	Q103, Q303, Q901, Q910	DTC124EK

	Q840	FMY1A
	D102, D180, D801, D901, D902	1SS254
	D905, D963	1SS254
	D301, D303, D304, D802	1SS355
	D805	KV1851

	D110	MTZJ5.1B
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COILS AND FILTERS

	F113, F198, F199, F500, F503	DTF1069
	CHIP BEAD	
	F505, F507-F509, F547, F548	DTF1069
	CHIP BEAD	
	F5553-F5555, F561-F568	DTF1069
	CHIP BEAD	

	L413	LAU100J
	L410	LAU101J
	L351, L802-L804	LAU181J
	L100, L352, L412, L461, L470	LAU220J
	L700, L800, L801, L806-L809	LAU220J

	L411, L571	LAU270J
	L420, L421, L580	LAU430J
	L462	LAU560J
	L414, L5004	LAU8R2J
	L460	LFA561J

	F501	14.3MHz FILTER	VTF1055
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Mark No.	Description	Part No.
CAPACITORS		
C420, C421, C438, C466, C583 C1111, C1112, C202, C370, C393 C5007, C5009, C5550-C5554 C6001, C6002, C710, C719-C721 C810, C846, C848, C891, C944	CCSQCH100D50 CCSQCH101J50 CCSQCH101J50 CCSQCH101J50 CCSQCH101J50	
C434, C437, C474, C579 C416 C415, C418, C475, C5010 C161, C258, C259, C353, C812 C352, C552	CCSQCH120J50 CCSQCH121J50 CCSQCH150J50 CCSQCH151J50 CCSQCH180J50	
C5011, C813, C823, C950 C162, C417, C591, C935 C371, C419, C433, C467, C931 C106, C107, C354, C435, C452 C553, C563, C580	CCSQCH220J50 CCSQCH221J50 CCSQCH270J50 CCSQCH330J50 CCSQCH330J50	
C351, C425, C476 C260-C263, C464, C468 C562 C375, C561, C806 C436, C809, C811	CCSQCH390J50 CCSQCH470J50 CCSQCH5R0C50 CCSQCH680J50 CCSQCH7R0D50	
C374, C814 C460, C462 C895 C588, C763, C844 C363, C765, C836	CCSQCH820J50 CCSQCH910J50 CEAL101M6R3 CEAL470M10 CEAL470M6R3	
C838 C972 C450 C274, C275, C367, C439 C101, C270, C271, C364, C412	CEALNP470M6R3 CEANP220M10 CEANP470M6R3 CEAS100M50 CEAS101M10	
C424, C493, C530, C538, C550 C585, C700, C701, C801, C803 C820, C833, C882, C890, C893 C898, C917, C927, C933 C974, C975	CEAS101M10 CEAS101M10 CEAS101M10 CEAS101M10 CEAS101M10	
C227, C281, C904 C821, C922, C967 C845, C870, C902, C926 C225, C226, C369, C5004, C534 C842	CEAS1R0M50 CEAS220M25 CEAS2R2M50 CEAS470M10 CEAS470M10	
C368, C943 C968, C987 C491 C484 C850	CEASR47M50 CEHAQ220M50 CEJA221M6R3 CEJA331M6R3 CEJA4R7M35	
C256, C490, C907 C5002, C5003, C551, C915, C981 C919 C361, C362 C355-C358, C377, C909	CKSQYB102K50 CKSQYB104K25 CKSQYB332K50 CKSQYB392K50 CKSQYB472K50	
C110, C122, C160, C196-C198 C372, C373, C376, C451, C454 C532, C533, C570, C577, C578 C581, C802, C804, C807, C819 C822, C831, C832, C834, C835	CKSQYF103Z50 CKSQYF103Z50 CKSQYF103Z50 CKSQYF103Z50 CKSQYF103Z50	
C843, C876, C883, C884 C888, C889, C892, C896, C897 C918, C928, C929, C932 C937, C938, C941, C961, C962 C964, C971, C982	CKSQYF103Z50 CKSQYF103Z50 CKSQYF103Z50 CKSQYF103Z50 CKSQYF103Z50	

Mark No.	Description	Part No.
C102, C103, C151, C284, C285 C365, C366, C391, C413 C422, C423, C453, C457, C458 C485, C492, C494, C500, C5006 C501, C502, C531, C539, C574	CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25	
C582, C587, C589, C592 C725, C726, C756, C758, C762 C764, C766, C827, C828 C840, C841, C847, C872-C874 C901, C910-C912, C976, C983	CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25	
C837, C921, C930 C359, C360, C905, C951 C465, C808, C815, C875, C877 C924, C925 C942	CKSQYF223Z50 CKSQYF224Z25 CKSQYF473Z25 CKSQYF473Z25 CQMA103J50	
C913, C920 C479, C908, C973 C903 C278, C282 C923	CQMA104J50 CQMA154J50 CQMA222J50 CQMA332J50 CQMA473J50	
C934 C483 C871 (10μF/16V NP) VC901 (20pF)	CQMA681J50 CQMA683J50 VCH1152 VCM-008	

RESISTORS

R420 R625, R626, R755-R758 R762, R765 R490, R987, R989 R880, R883	RD1/4PU470J RN1/10SC75R0D RN1/10SE1001D RN1/10SE1002D RN1/10SE1003D
R763, R766 R753, R754 R752 R879, R986, R990 R259-R262, R881, R882	RN1/10SE2001D RN1/10SE2201D RN1/10SE3301D RN1/10SE3302D RN1/10SE4702D
R927 VR450 (2.2kΩ) VR603 (4.7kΩ) VR604, VR607, VR608 (47kΩ) Other Resistors	RN1/4PC5101F PCP1025 RCP1020 RCP1047 RS1/10S□□□□J

OTHERS

CN703 CN108 CN121 CN102 CN106	10P FFC CONNECTOR 12P FFC CONNECTOR 16P FFC CONNECTOR 21P FFC CONNECTOR 11P TOP POST	52045-1045 52045-1245 52045-1645 52045-2145 B11P-SHF-1AA
CN503, CN701 B TO B CONNECTOR J50 BOARD IN JUMPER JA8 OPTICAL OUTPUT MODULE JA3, JA4 REMOTE CONTROL JACK PCB BINDER	12P BTFN12S-3SB7 DB912NS0 GP1F32T PKN1004 VEF1040	
JA6 JA15 CN103	4P PIN JACK 3P PIN JACK S TERMINAL (8P) 23P FFC CONNECTOR	VKB1065 VKB1093 VKN1134 VKN1199 VNE1948
KN101, KN102 X101 X801 X550	EARTH METAL FITTING CERAMIC RESONATOR(9.00MHz) CRYSTAL RESONATOR(16MHz) CRYSTAL RESONATOR (28.636MHz)	VNF1084 VSS1040 VSS1081 VSS1093

CLD-D606

Mark No. Description Part No.

FLKB ASSY

OTHERS

PC BOARD FLKB VNP1602

HF FLKY ASSY

SEMICONDUCTORS

IC101 PD3360B
 IC141 S-806D
 Q142 DTA144ES
 Q141 DTC114ES
 D141 1SS254

D301 SLR-342DUT31
 D302 SLR-342MCT31
 D303 SLR-342VCT31

SWITCHES

S301-S303 ASG1034

CAPACITORS

C142, C301 CEAL100M16
 C101 CEAL470M6R3
 C901, C902 CKPUYB151K50
 C111, C141 CKPUYF223Z25
 C143 CKPUYY103M16

RESISTORS

All Resistors RD1/4PU□□□J

OTHERS

CN101 21P FFC CONNECTOR 52044-2145
 X101 CERAMIC RESONATOR(8MHz) EFOEC8004A4
 REMOTE RECEIVER UNIT 6P1U28X
 V101 FL TUBE VAW1041
 SPACER VEC1599
 FL HOLDER VNF1087

HF KEYB ASSY

SWITCHES

S201-S208 ASG1034

CAPACITORS

C500 CKPUYF223Z25

RESISTORS

All Resistors RD1/4PU□□□J

OTHERS

CN203 FFC BOTTOM CONNECTOR 16P 52492-1620
 CN201 FFC BOTTOM CONNECTOR 21P 52492-2120

Mark No. Description Part No.

JF YCPB ASSY

SEMICONDUCTORS

IC701 CXD20460
 IC3002 NJM2209S
 IC3001 TC74HC4053AF
 IC3003 TC7W74F
 Q3017, Q3022, Q3025, Q3062, Q750 2PB709A

Q3018-Q3021, Q3023, Q3024, Q3061 2PD601A
 Q3063, Q702, Q703 2PD601A
 Q3001 DTA124EK
 Q3002 DTC124EK

COILS AND FILTERS

F701, F731, F771-F773 CHIP BEAD DTF1069
 F777, F778 CHIP BEAD DTF1069
 L3002 LFA121J
 L3003, L750, L751 LFA220J
 L3001 LFA221J

CAPACITORS

C771, C772, C777 CCSQCH101J50
 C3010 CCSQCH151J50
 C3014, C3061, C750, C753 CCSQCH220J50
 C3011 CCSQCH221J50
 C754 CCSQCH470J50

C752 CCSQCH560J50
 C751 CCSQCH6R0D50
 C3064 CCSQCH910J50
 C3016, C3017 CEAS100M16
 C3005, C3006 CEAS101M10

C3007, C7001-C7003, C704 CEAS470M10
 C705 CKSQYB102K50
 C706, C707, C722 CKSQYB104K25
 C3002 CKSQYB122K50
 C3001, C3013 CKSQYB472K50

C3012, C3062 CKSQYF103Z50
 C3003, C3004, C3008, C3009, C7004 CKSQYF104Z25
 C711, C713, C714, C716, C717 CKSQYF104Z25
 C724, C770, C773-C776 CKSQYF104Z25

RESISTORS

R3037 RN1/10SE1001D
 R3036 RN1/10SE1301D
 R3022 RN1/10SE2001D
 R3021 RN1/10SE2201D
 R704, R705 RN1/10SE2700D

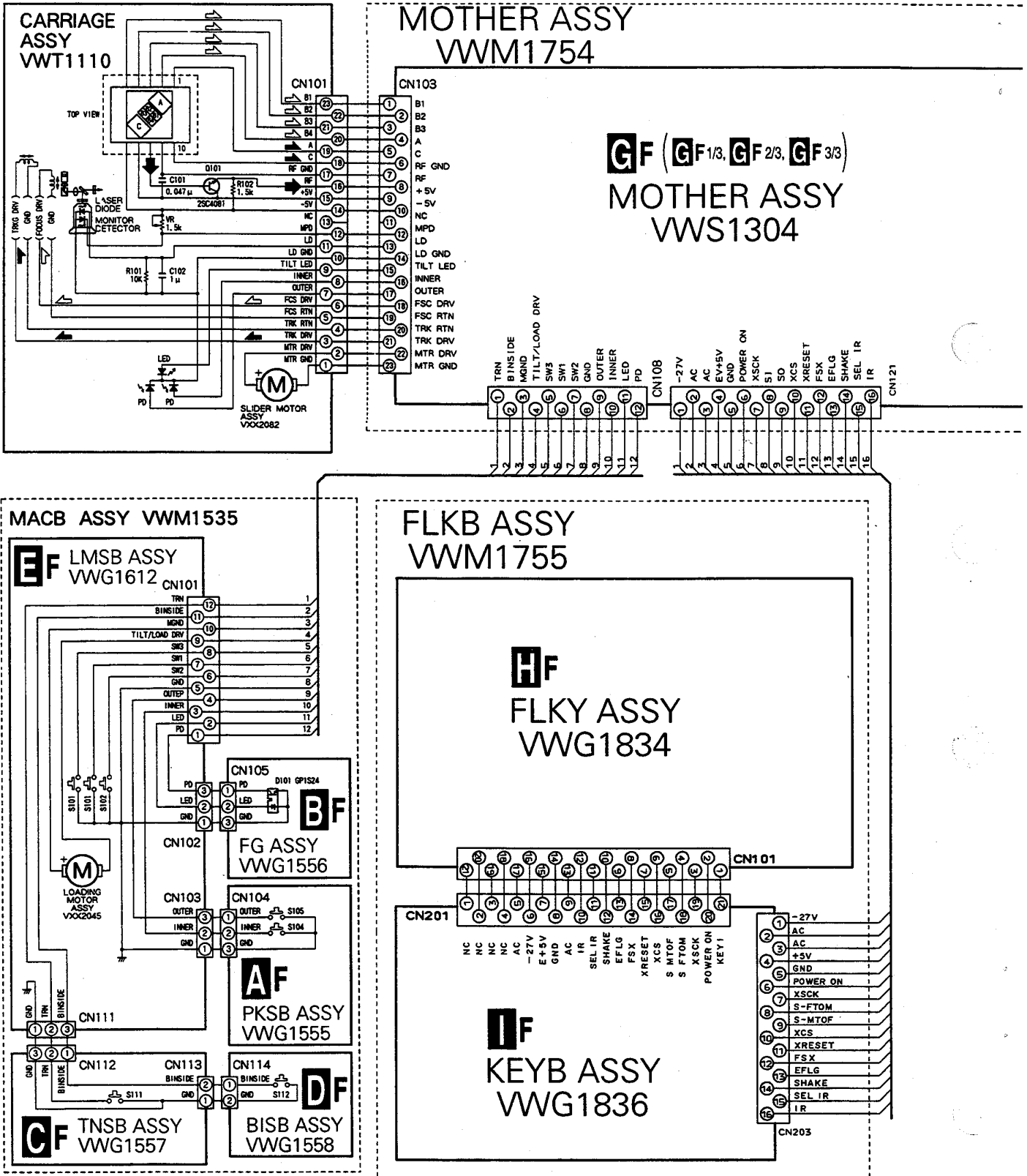
R703, R707 RN1/10SE3301D
 R702 RN1/10SE3901D
 R701, R708 RN1/10SE4701D
 R706 RN1/10SE5601D
 Other Resistors RS1/10S□□□J

OTHERS

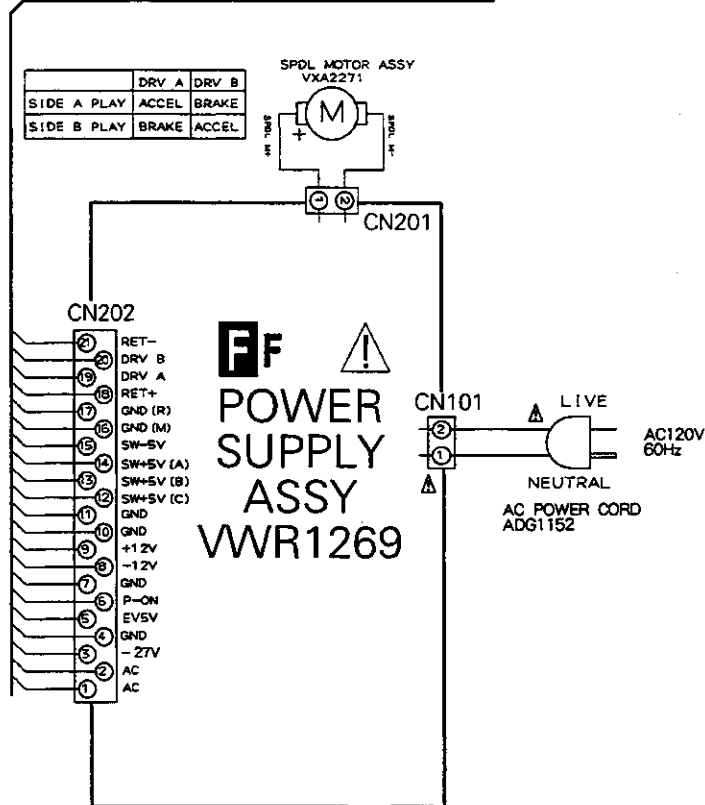
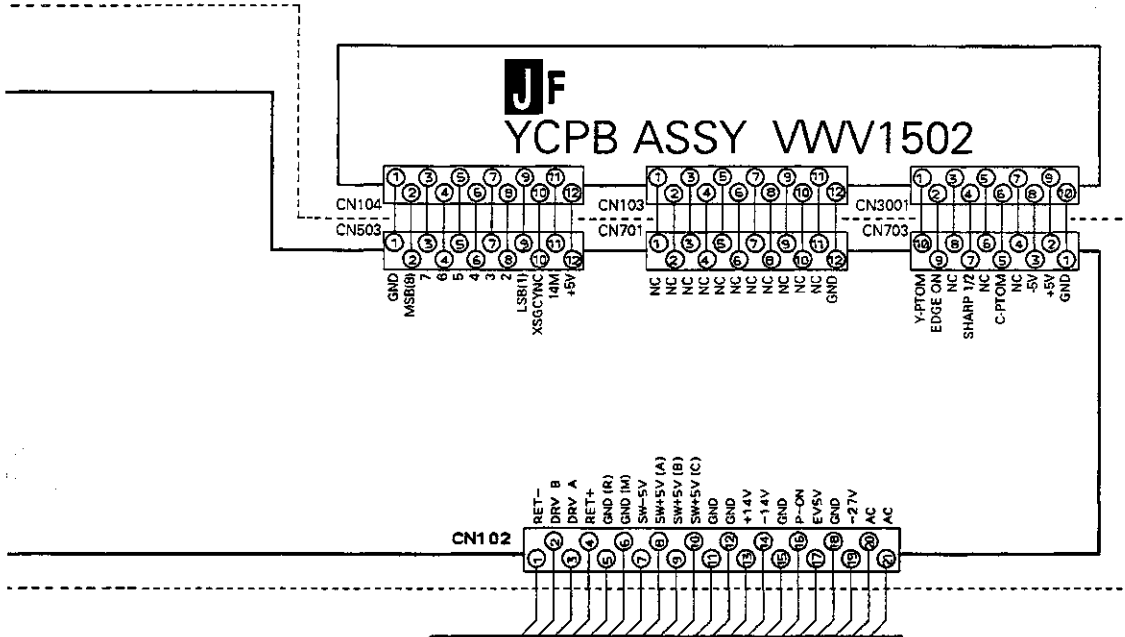
CN3001 10P FFC CONNECTOR 52045-1045
 CN103, CN104 BTFN12P-3RD7
 B TO B CONNECTOR 12P
 SCREW TERMINAL VNE1948
 PC BOARD YCPB VNP1589

2. SCHEMATIC DIAGRAM

2.1 OVERALL CONNECTIONS, PKSB, FG, TNSB, BISB, LMSB AND CARRIAGE ASSEMBLIES



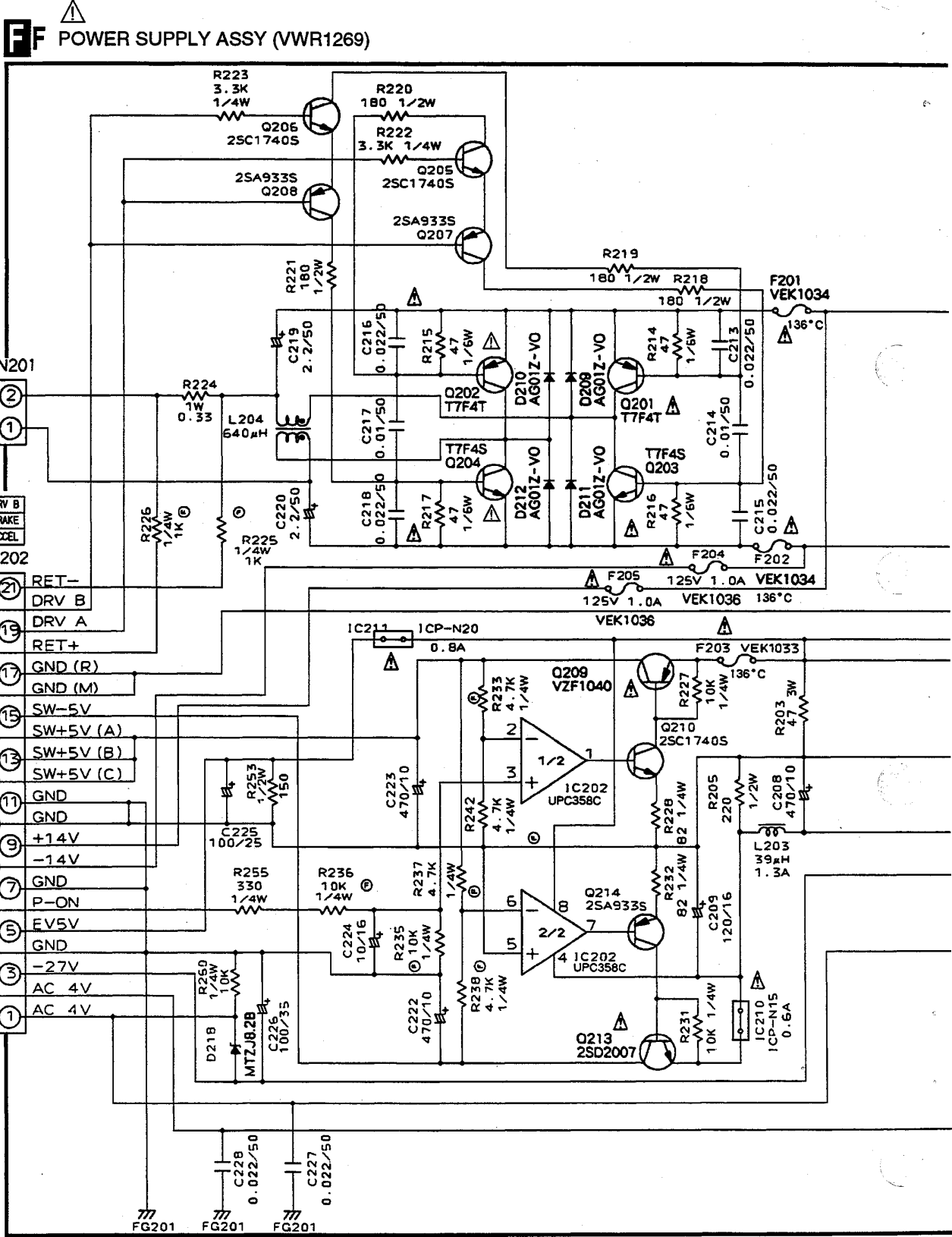
Note : When ordering service parts, be sure to refer to "CONTRAST TABLE" or "PCB PARTS LIST"



SIGNAL ROUTE

- ➡: RF SIGNAL ROUTE
- ⏏: FOCUS SERVO LOOP LINE
- ⏏: TRACKING SERVO LOOP LINE

2.2 POWER SUPPLY ASSY



	DRV A	DRV B
SIDE A PLAY	ACCEL	BRAKE
SIDE B PLAY	BRAKE	ACCEL

GF3/3 CN102

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. ICP-N20, MFD BY ROHM CO., LTD. FOR IC211.

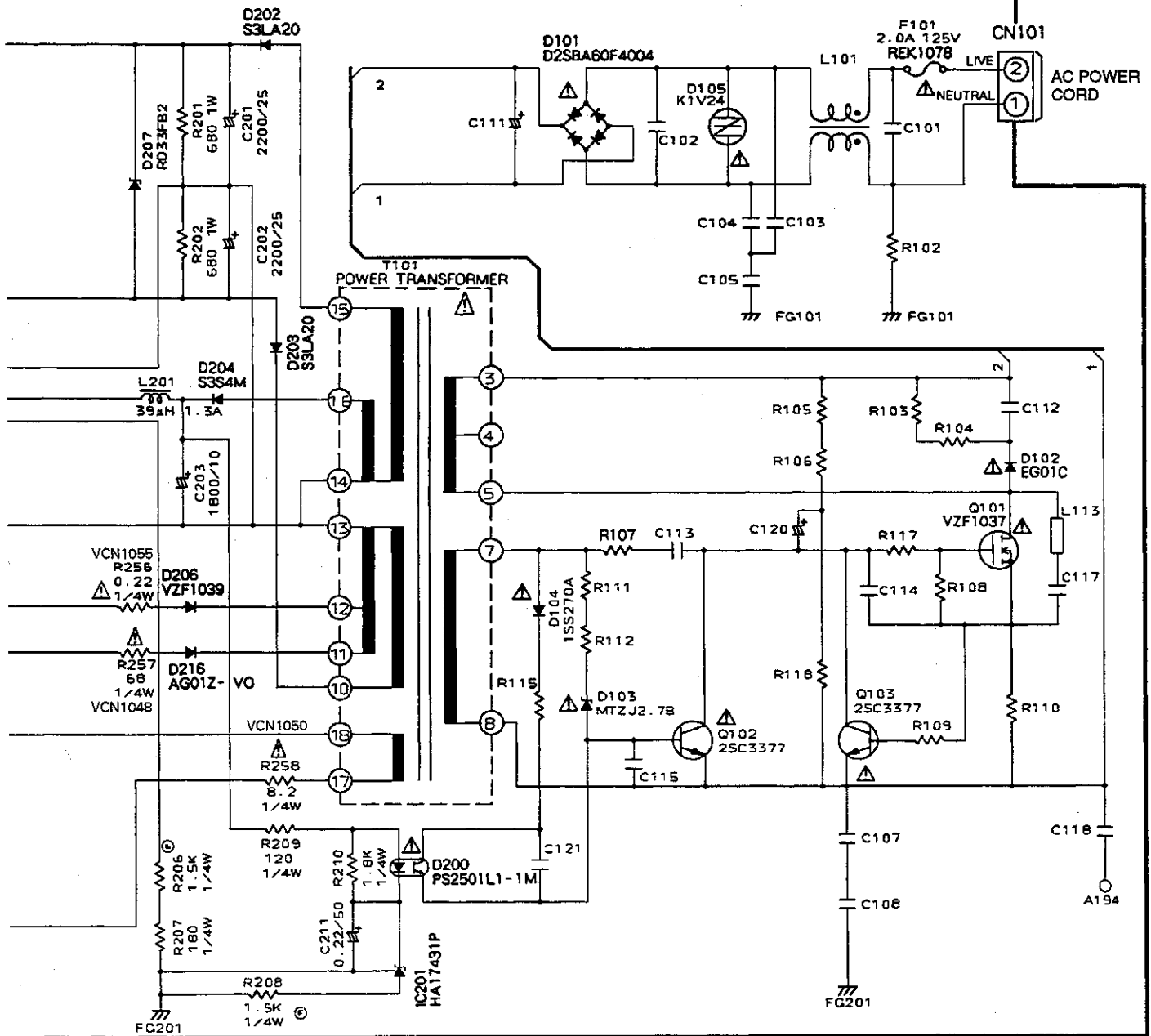
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. ICP-N15, MFD BY ROHM CO., LTD. FOR IC210.

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

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

• NOTE FOR FUSE REPLACEMENT

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

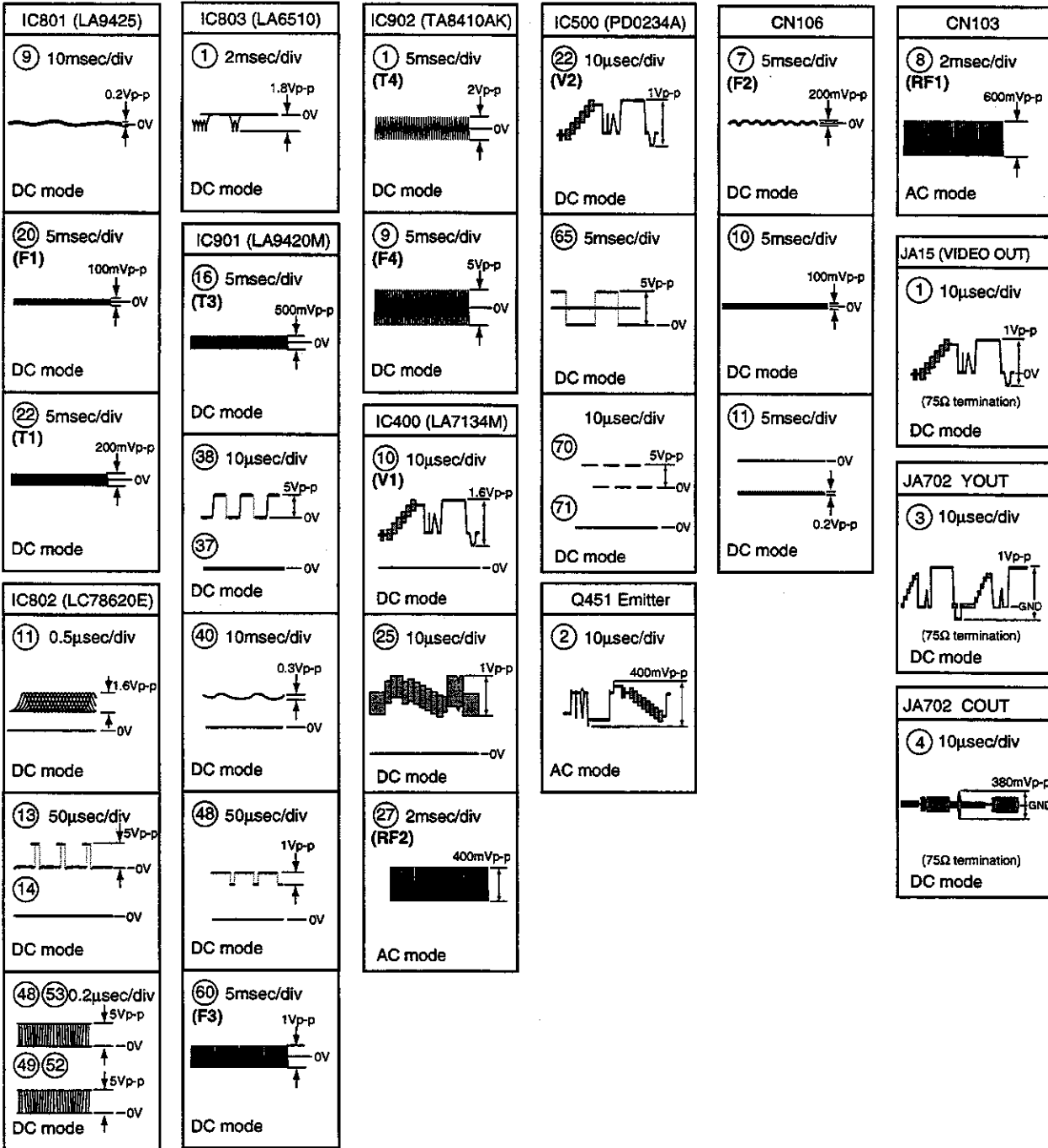


2.3 MOTHER ASSY

• WAVEFORMS AND VOLTAGE OF THE MOTHER ASSY

Note : (No.) in the table correspond to the pin number.

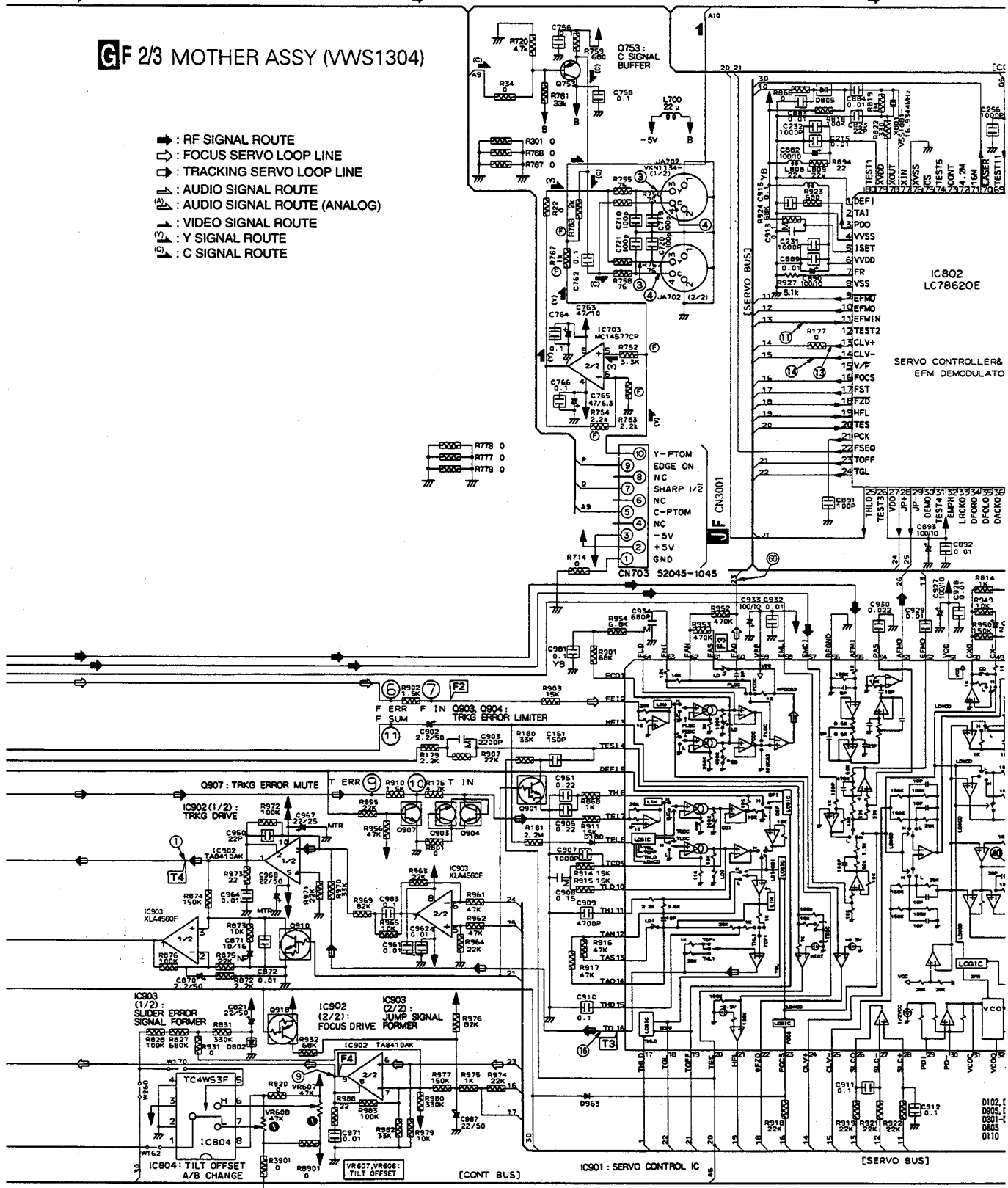
Measurement condition : In case when (D.audio) is written, at time when disc that has digital audio recording is played.

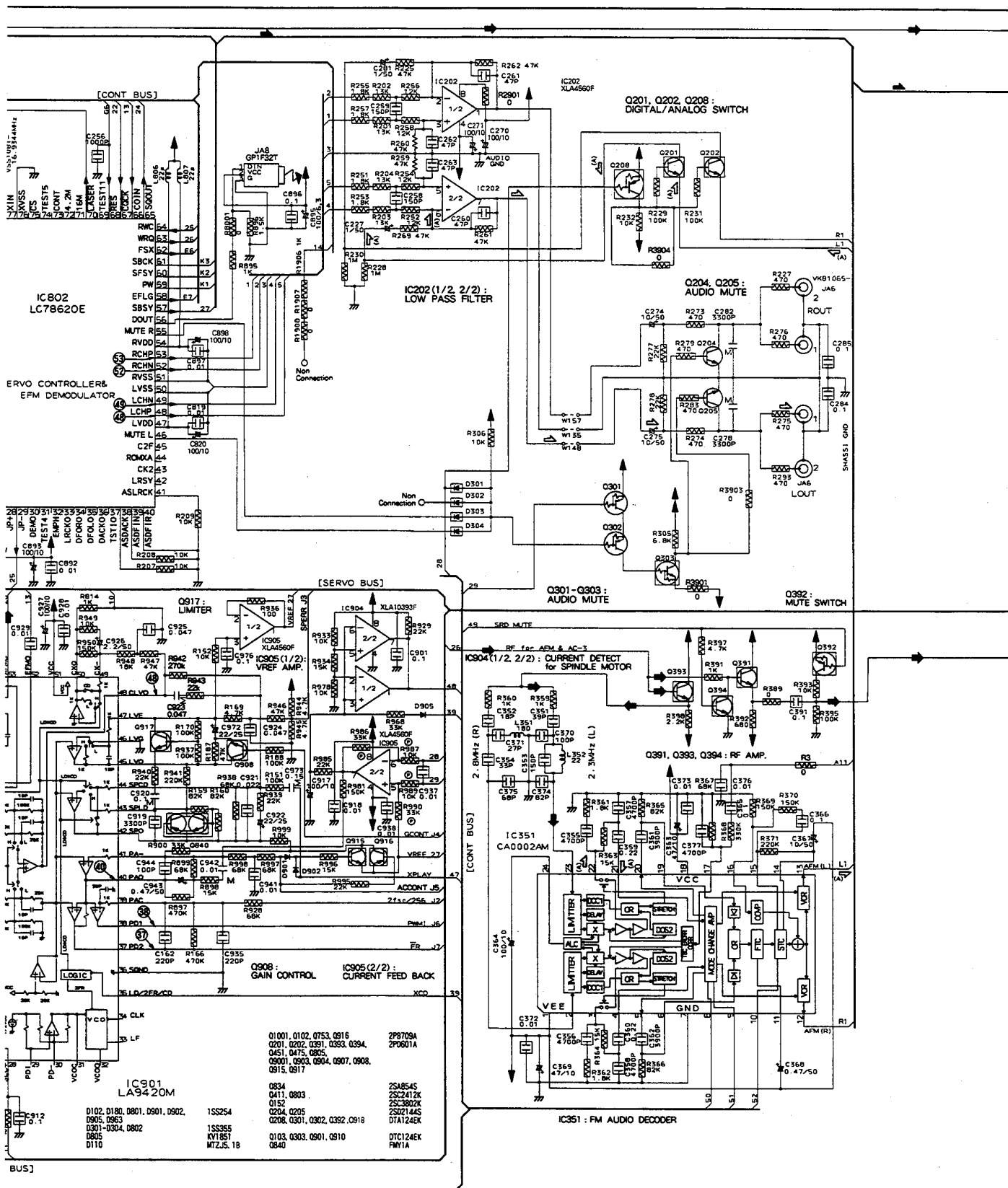


GF 2/3 MOTHER ASSY (VWS1304)

- : RF SIGNAL ROUTE
- ⇨ : FOCUS SERVO LOOP LINE
- ⇨ : TRACKING SERVO LOOP LINE
- ⚡ : AUDIO SIGNAL ROUTE
- ⚡ : AUDIO SIGNAL ROUTE (ANALOG)
- ⚡ : VIDEO SIGNAL ROUTE
- ⚡ : Y SIGNAL ROUTE
- ⚡ : C SIGNAL ROUTE

XXXX	R778	0
XXXX	R777	0
XXXX	R775	0



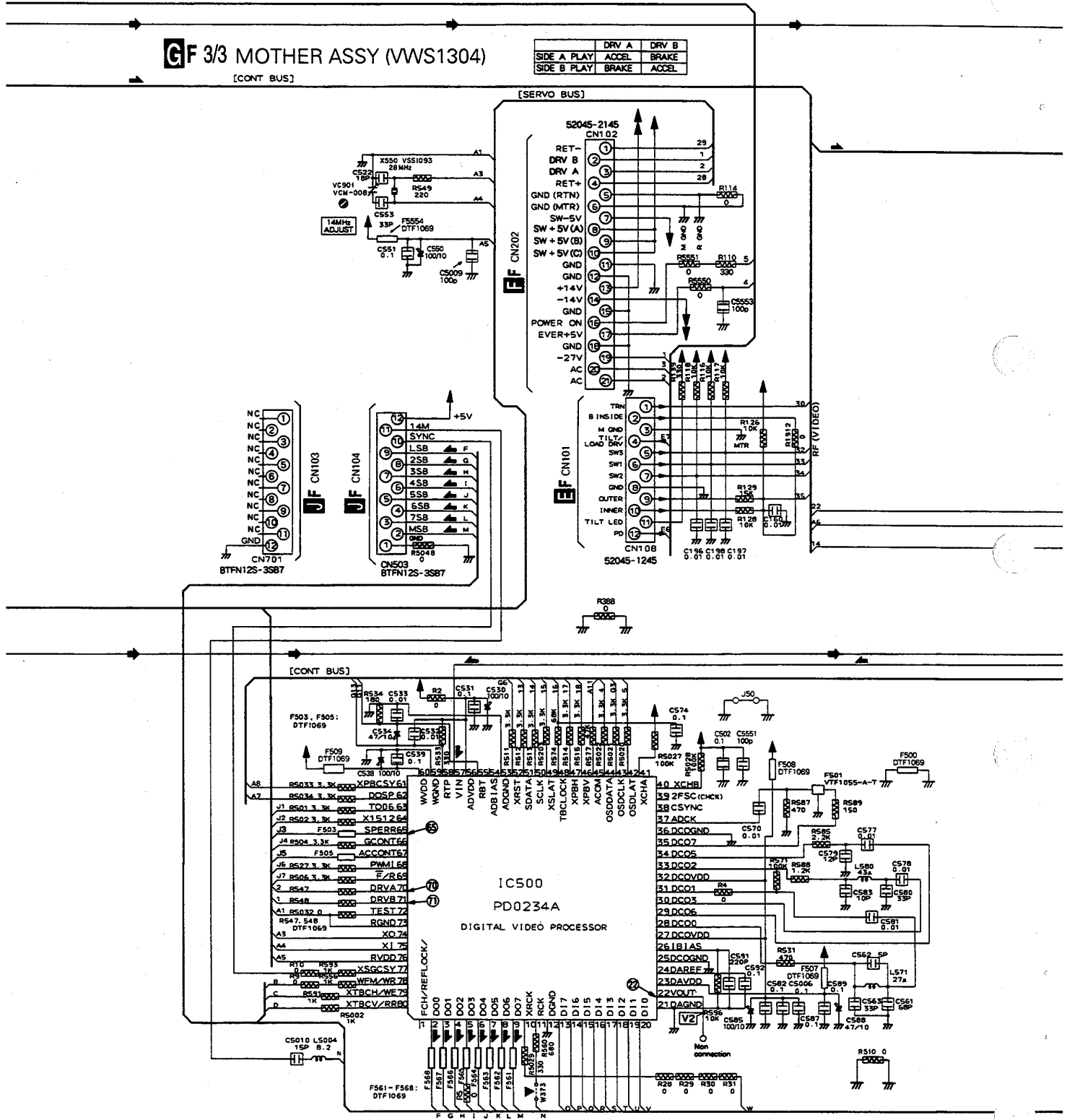


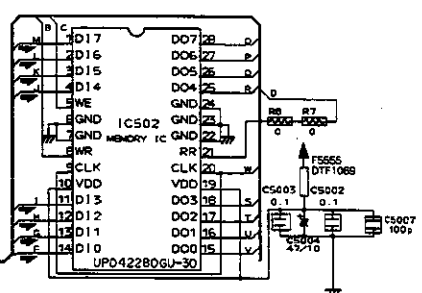
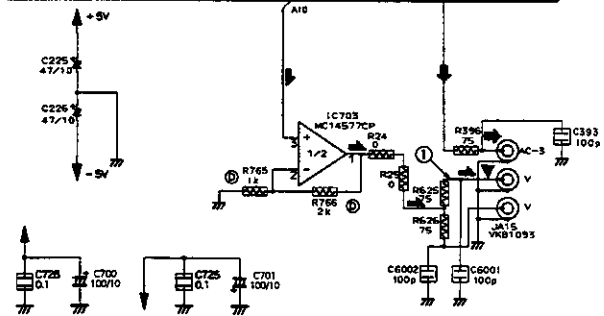
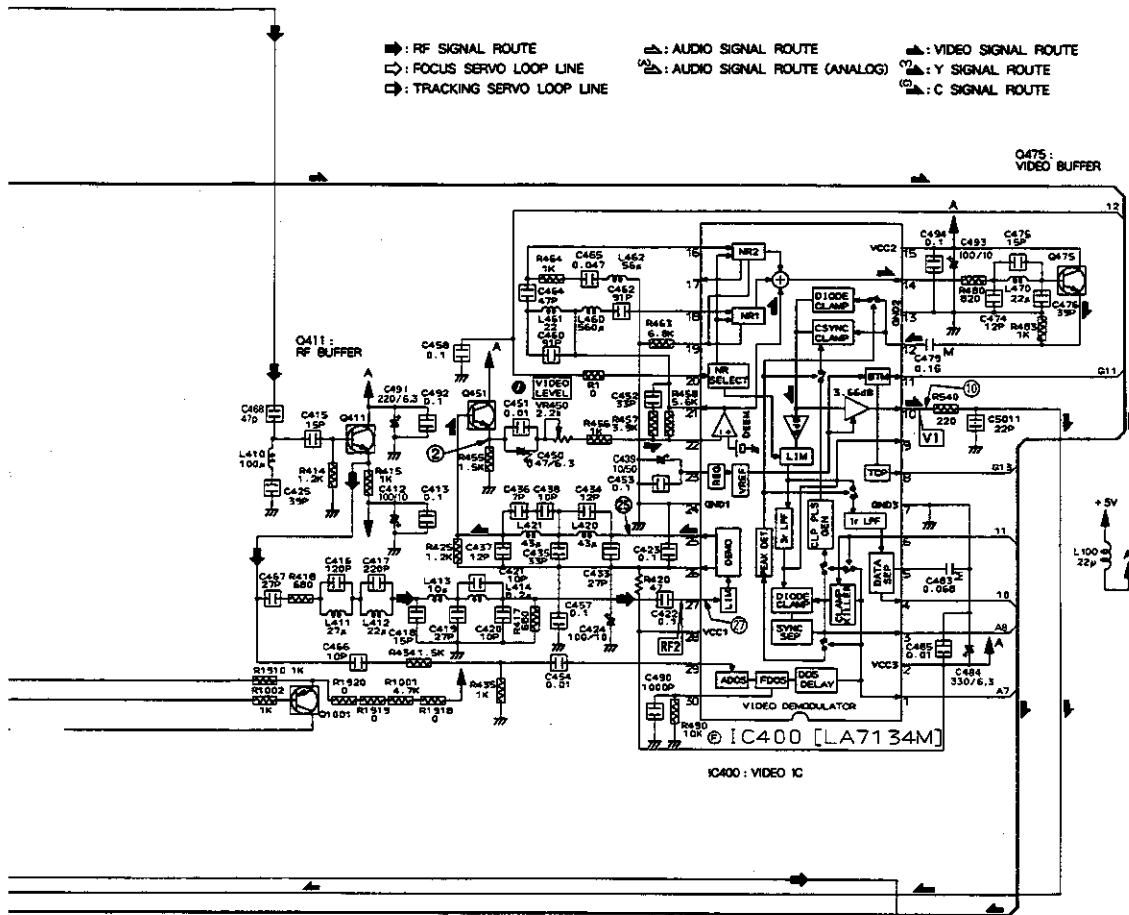
GF 3/3 MOTHER ASSY (VWS1304)

[CONT BUS]

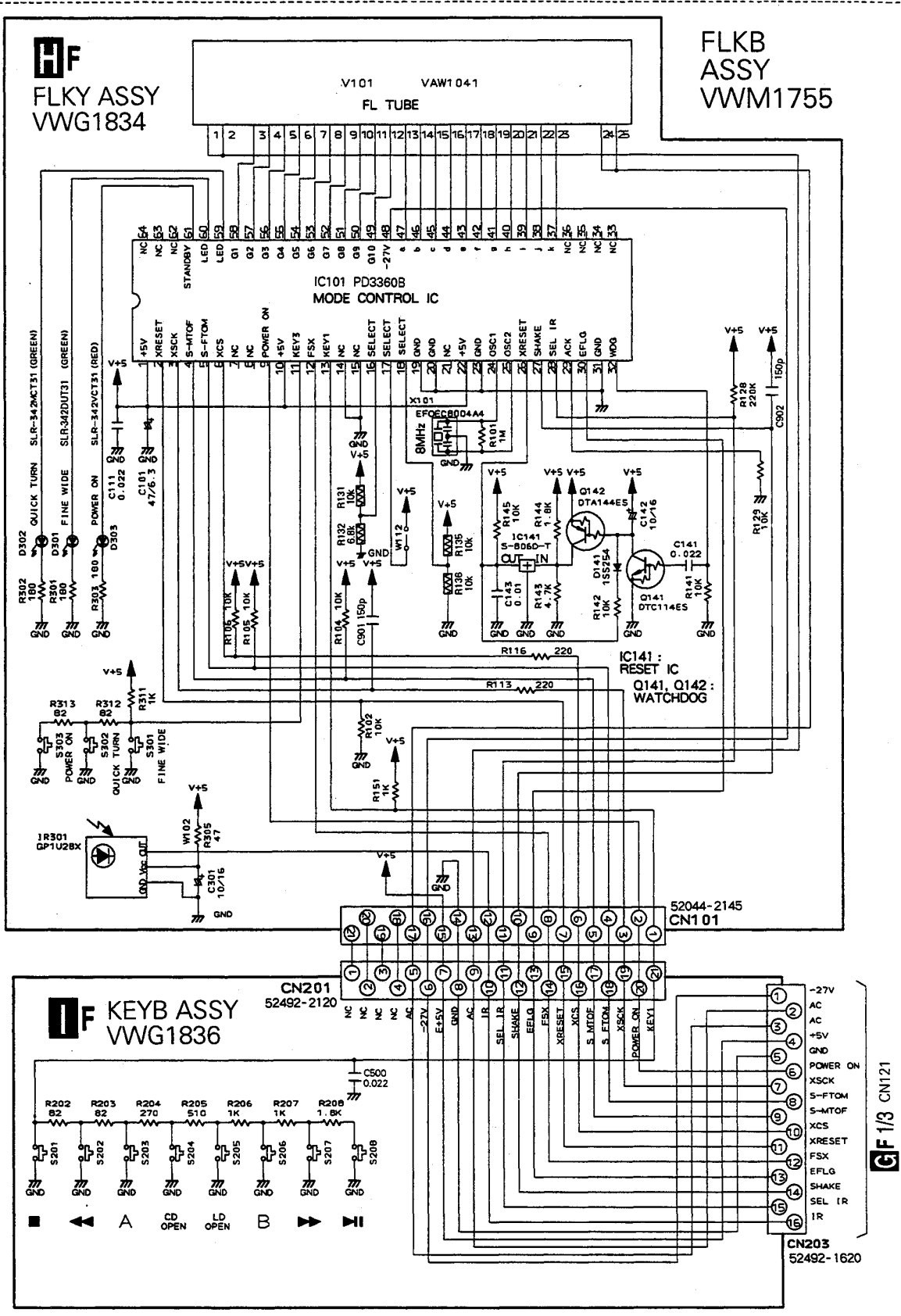
[SERVO BUS]

	DRV A	DRV B
SIDE A PLAY	ACCEL	BRAKE
SIDE B PLAY	BRAKE	ACCEL





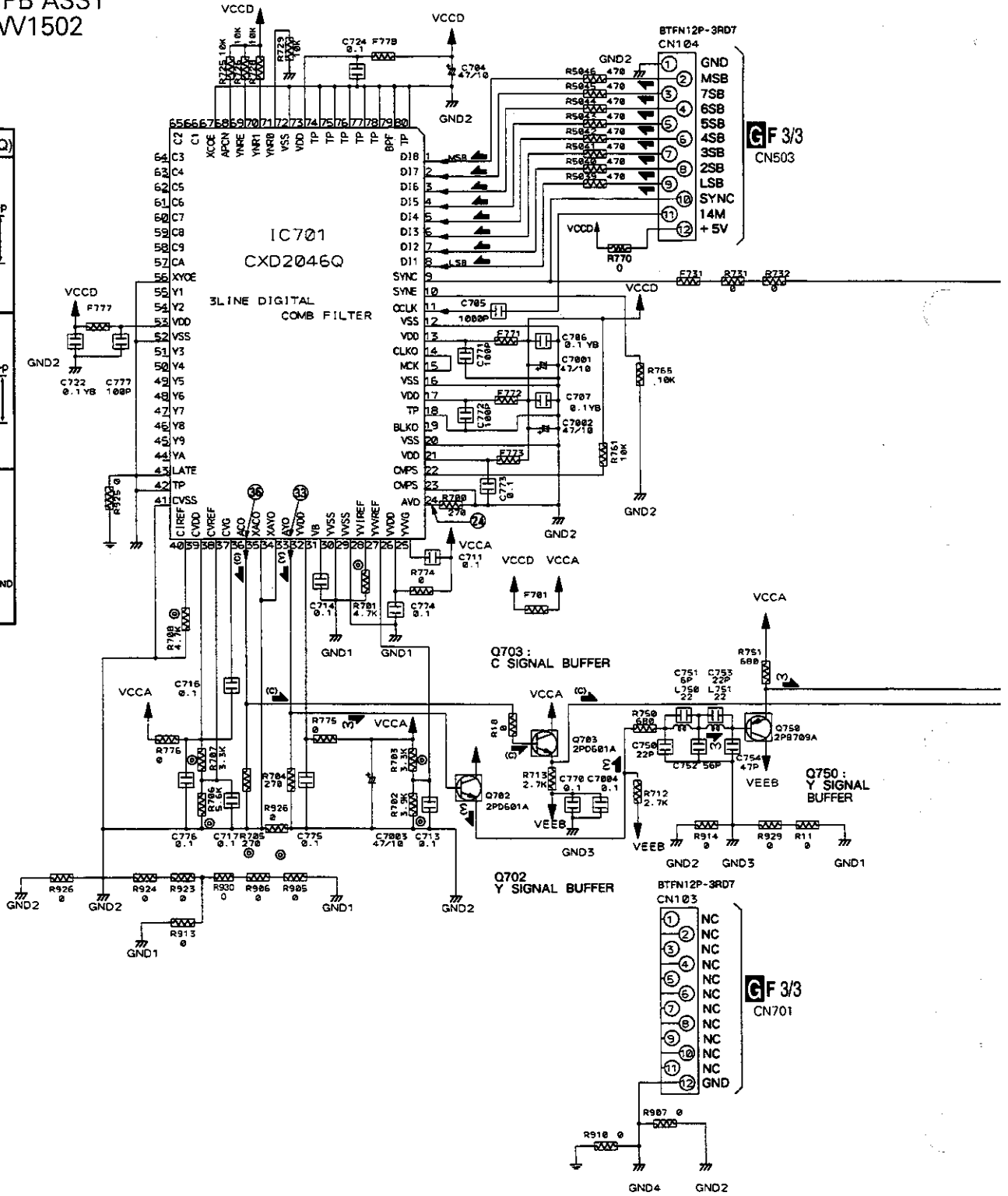
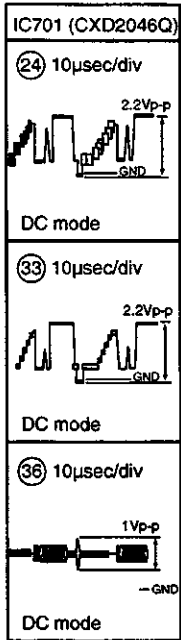
2.4 FLKY AND KEYB ASSEMBLIES



2.5 YCPB ASSY




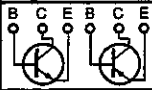

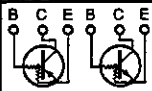

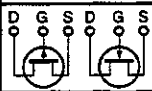

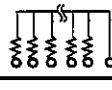


YCPB ASSY
VWV1502



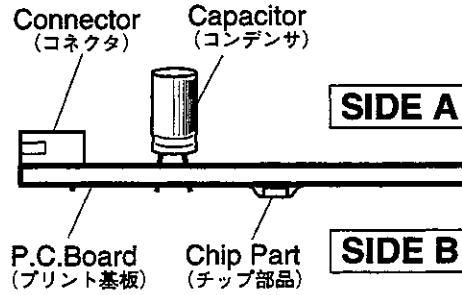
3. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

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

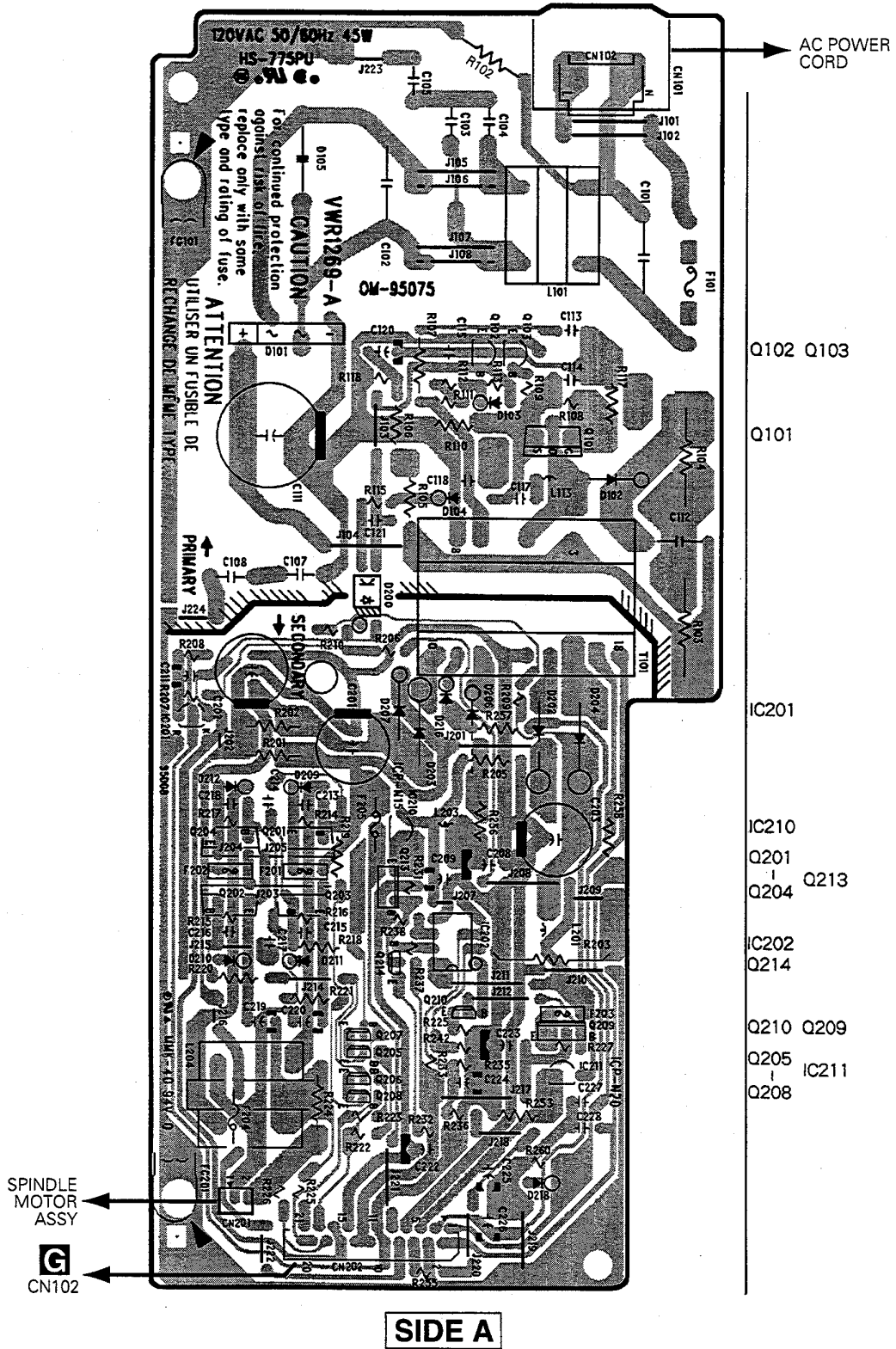
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

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



3.1 POWER SUPPLY ASSY

FF POWER SUPPLY ASSY

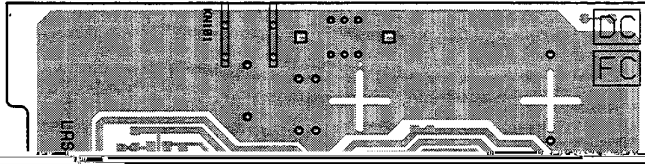


SIDE A

CLD-D606

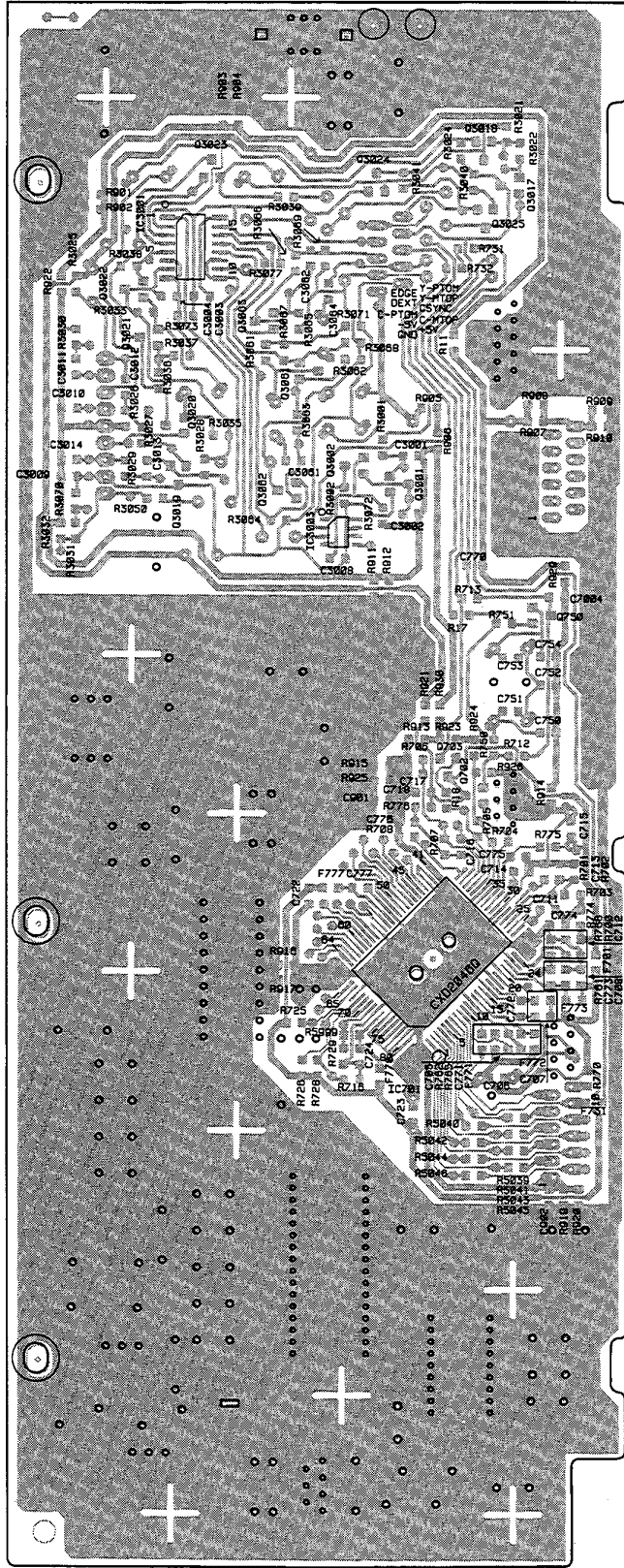
3.2 YCPB ASSY

JF YCPB ASSY



JF YCPB ASSY

- Q3018
- Q3023 Q3024
- Q3017
- Q3025
- IC3001
- Q3022
- Q3063
- Q3021
- Q3061
- Q3020
- Q3002
- Q3062
- Q3001
- Q3019 IC3003
- Q750
- Q703
- Q702
- IC701



SIDE B

