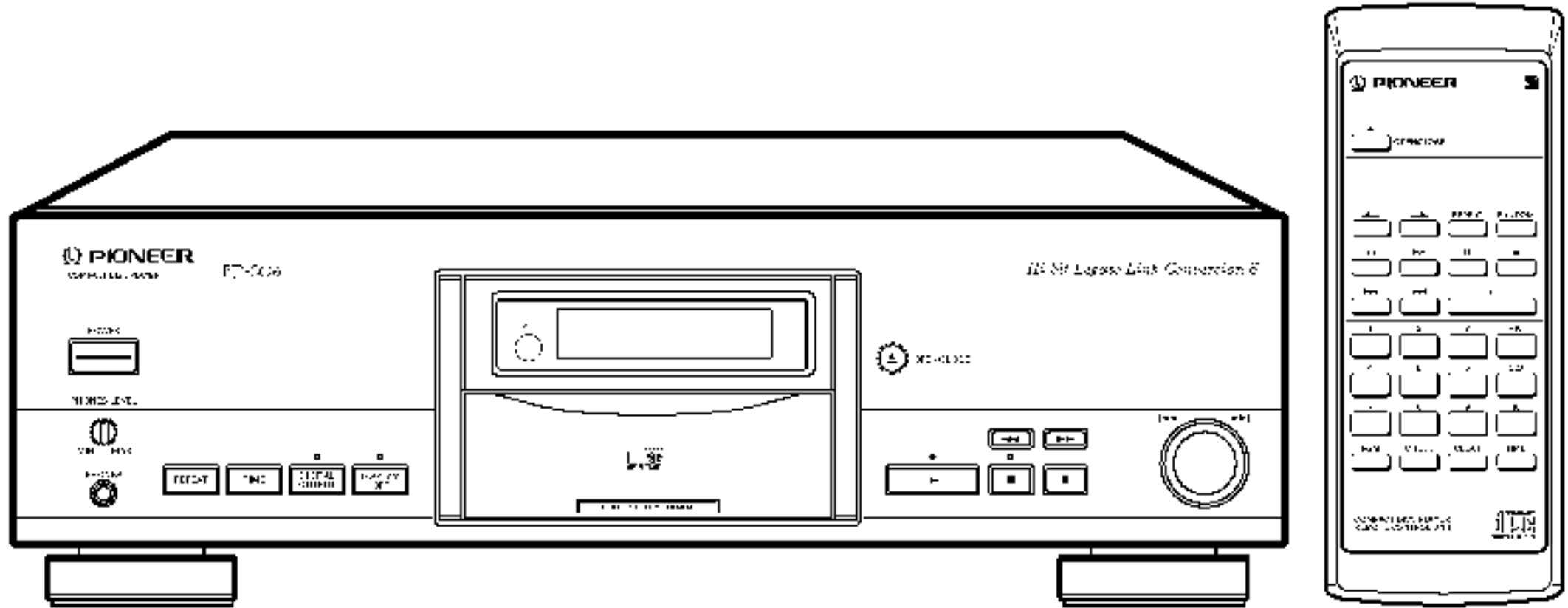


Service Manual



ORDER NO.
RRV1837

COMPACT DISC PLAYER PD-S06

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

Type	Model	Power Requirement	The voltage can be converted by the following method.
	PD-S06		
MY	○	AC220-230V	_____

CONTENTS

1. SAFETY INFORMATION.....	2	7. GENERAL INFORMATION	42
2. EXPLODED VIEWS AND PARTS LIST	3	7.1 DISPLAY	42
3. SCHEMATIC DIAGRAM	12	7.2 BLOCK DIAGRAM	43
4. PCB CONNECTION DIAGRAM	20	8. PANEL FACILITIES AND SPECIFICATIONS	44
5. PCB PARTS LIST	34		
6. ADJUSTMENT	37		

1. SAFETY INFORMATION

VARO !
AVATTAESSA JA SUOJALUKITUS
OHITETTAESSA OLET ALTTIINA
NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.
ÄLÄ KATSO SÄTEESEEN.



LASER
Kuva 1
Lasersäteilyn
varoitusmerkki

ADVARSEL:
USYNLIG LASERSTRÅLING VED ÅBNING
NÅR SIKKERHED SAFBRYDERE ER UDE AF
FUNKTION. UNDGÅ UDSÆTTELSE FOR
STRÅLING.

VARNING !
OSYNLIG LASERSTRÅLNING NÄR DENNA
DEL ÄR ÖPPNAD OCH SPÄRREN
ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

WARNING !
DEVICE INCLUDES LASER DIODE WHICH
EMITS INVISIBLE INFRARED RADIATION
WHICH IS DANGEROUS TO EYES. THERE IS
A WARNING SIGN ACCORDING TO PICTURE
1 INSIDE THE DEVICE CLOSE TO THE LASER
DIODE.

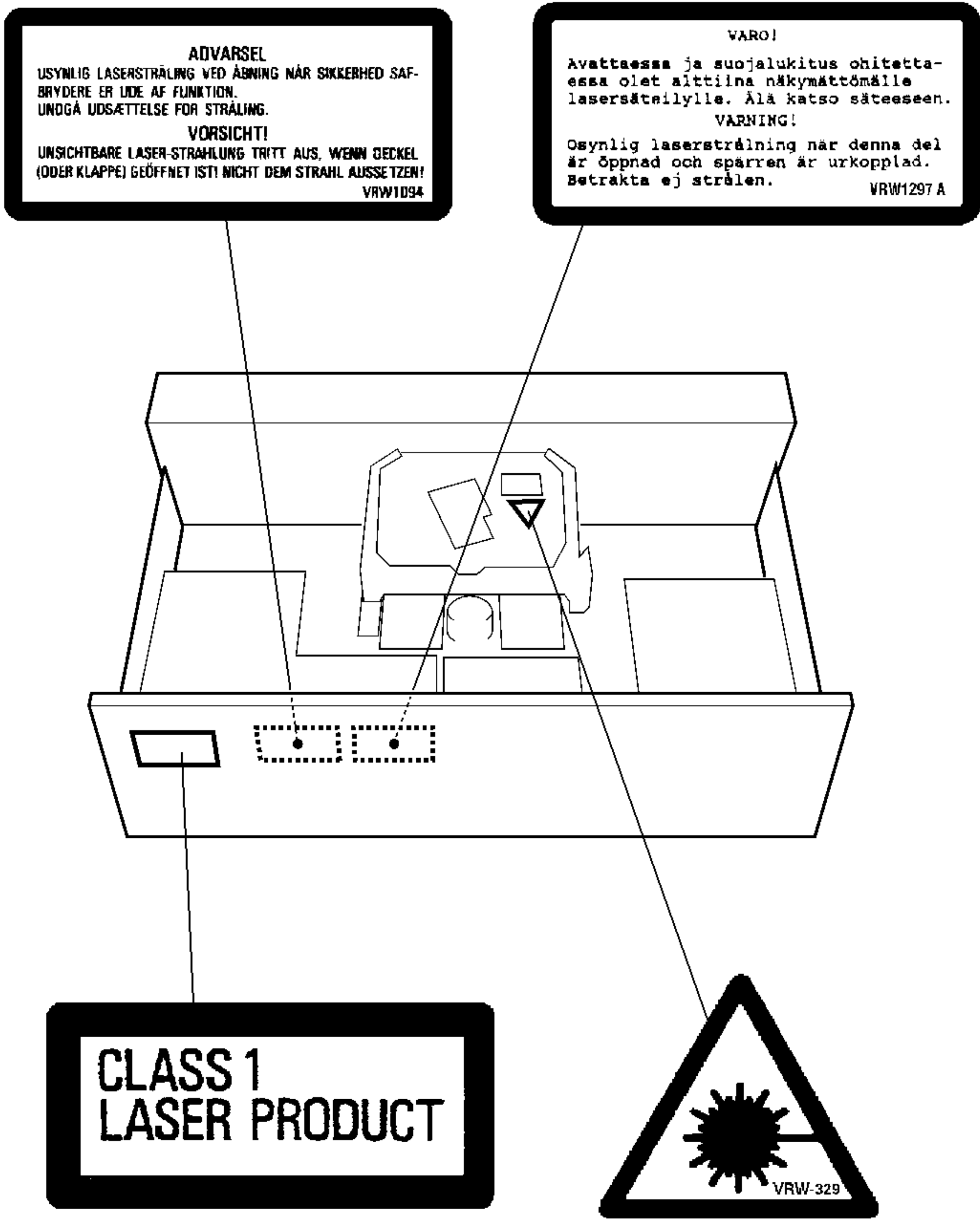


LASER
Picture 1
Warning sign for
laser radiation

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

LASER DIODE CHARACTERISTICS
MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780 – 785 nm

LABEL CHECK



Additional Laser Caution

1. Laser Interlock Mechanism
The position of the switch (S601) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S601) is not on CLMP terminal side (CLMP signal is OFF or high level.). Thus, the interlock will no longer function if the switch (S601) is deliberately set to CLMP terminal side (low level).
The interlock also does not function in the test mode*.
Laser diode oscillation will continue, if pin 1 of M51593FP (IC101) on the PRE-AMP BOARD ASSY mounted on the pickup assembly is connected to GND, or pin 19 is connected to low level (ON), or else the terminals of Q101 are shorted to each other (fault condition).

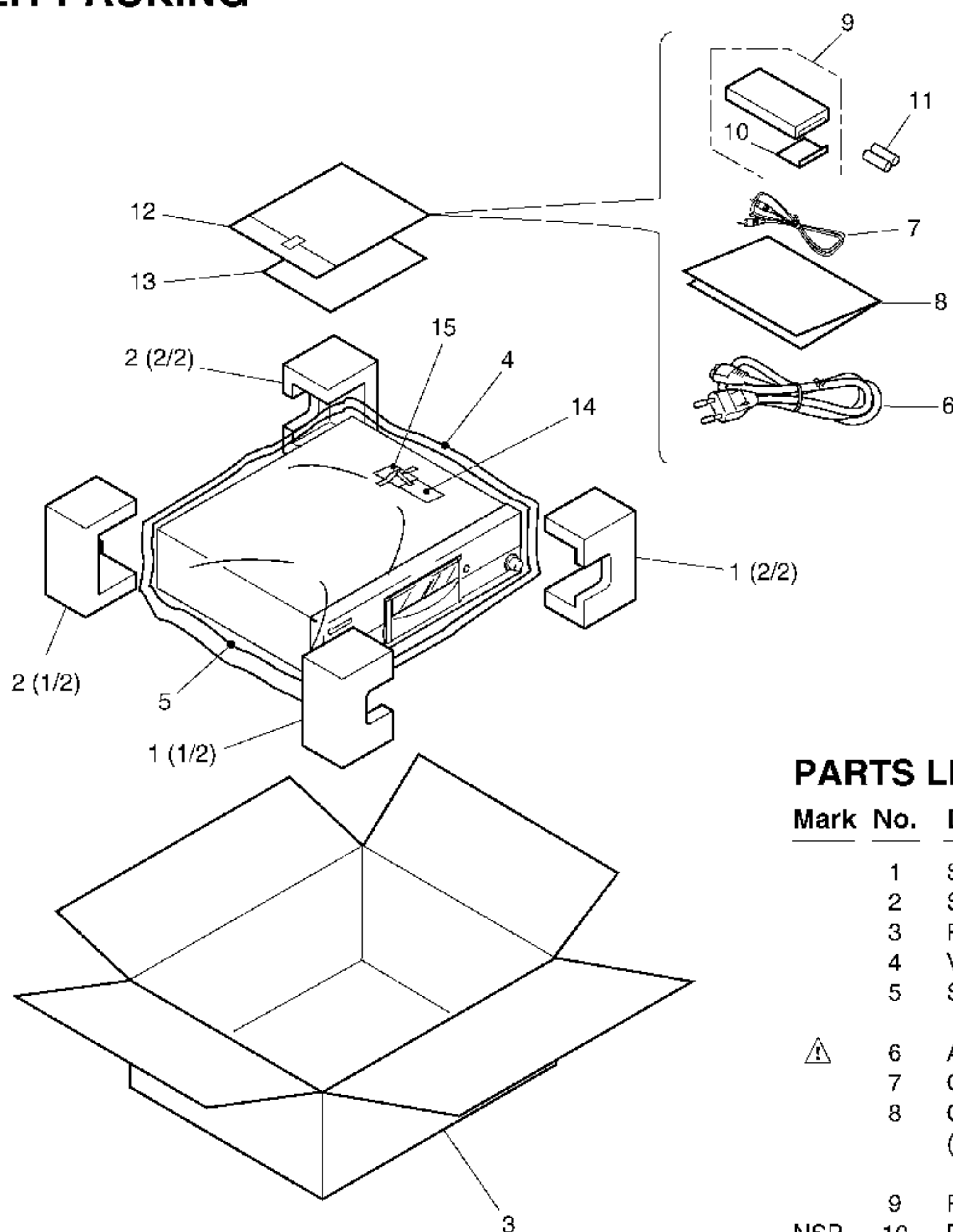
2. When the cover is opened with the servo mechanism block removed and turned over, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* Refer to page 38 .

2. EXPLODED VIEWS AND PARTS LIST

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

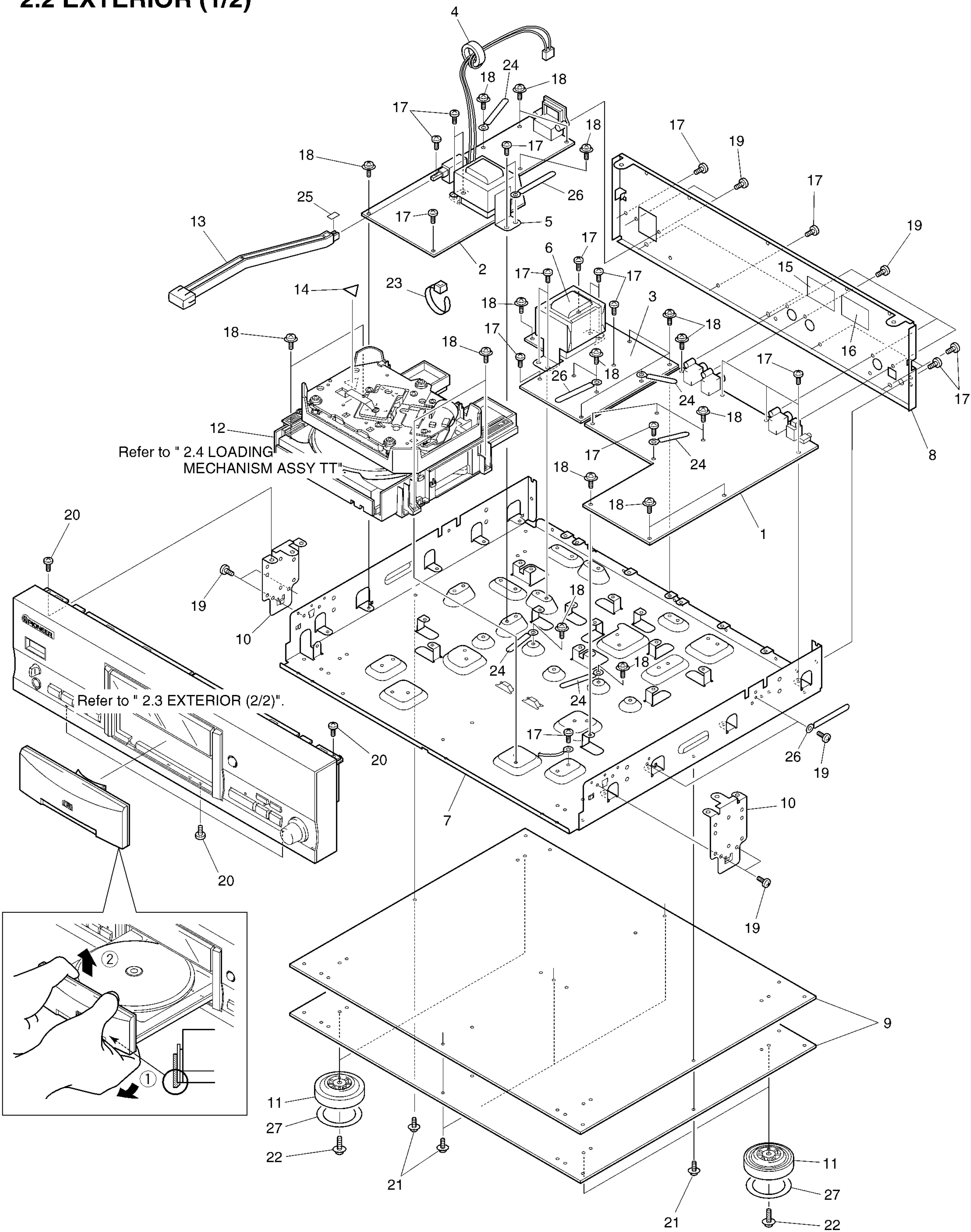
2.1 PACKING



PARTS LIST

Mark	No.	Description	Parts No.
	1	Styrol Protector F	PHA1319
	2	Styrol Protector R	PHA1320
	3	Packing Case S06	PHG2272
	4	Vinyl Bag	PHL1087
	5	Seat (750 × 600 × 0.5)	Z23-007
	6	AC Power Cord	ADG1127
	7	Output Cable (L=1.2 m)	PDE1003
	8	Operating Instructions (English/ French/ German/ Italian/ Dutch/ Swedish/ Spanish/ Portuguese)	PRE1263
	9	Remote Control Unit	PWW1115
NSP	10	Battery Cover	PZN1103
NSP	11	Dry Cell Battery (R03, AAA)	VEM-022
	12	Polyethylene Bag (0.03 × 230 × 340)	Z21-038
NSP	13	Warranty Card	ARY7008
NSP	14	Caution SG	ARR7013
NSP	15	Silica Gel	AEN7001

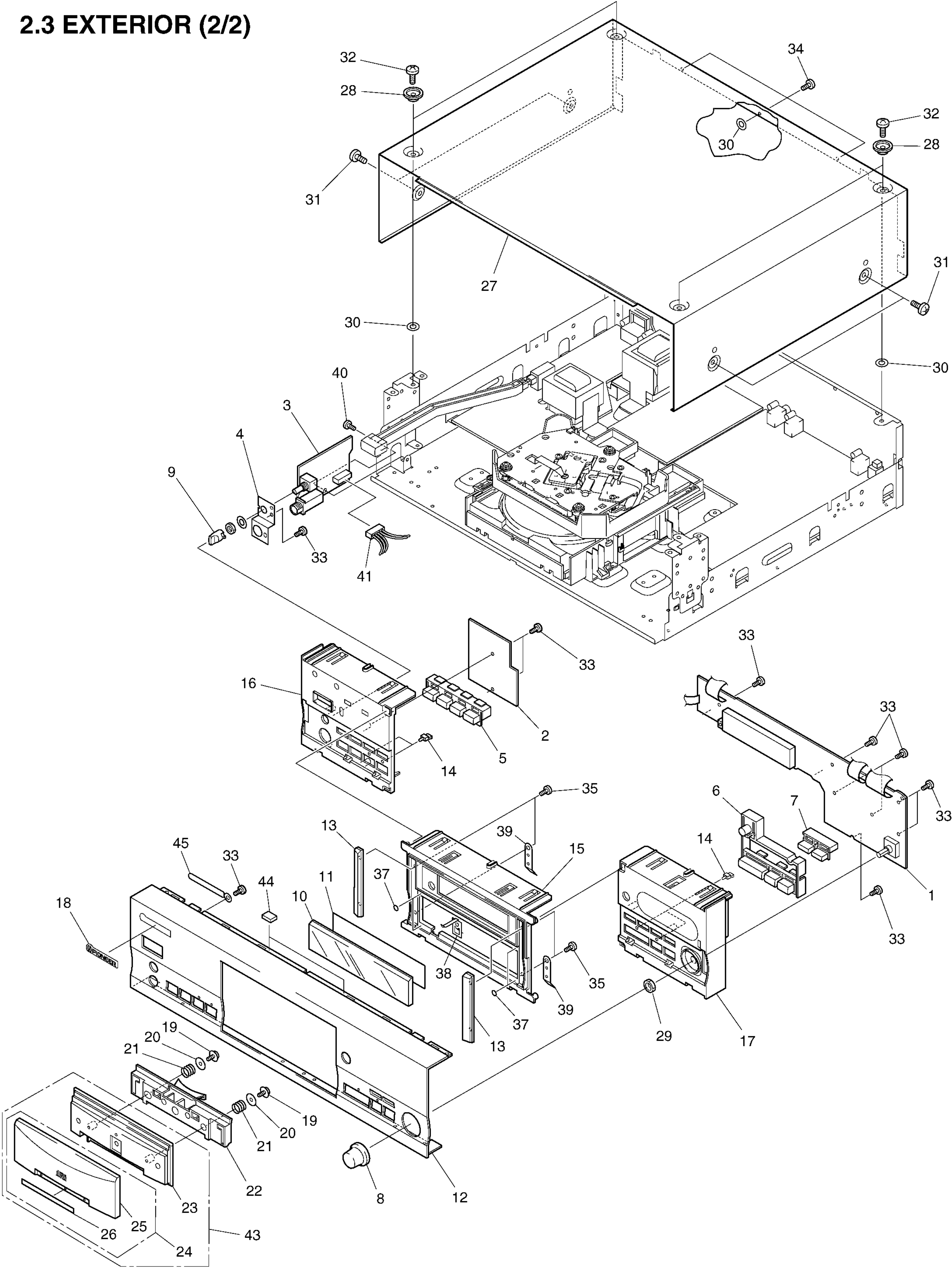
2.2 EXTERIOR (1/2)



PARTS LIST

Mark	No.	Description	Parts No.
	1	Main Board Assy	PWZ3500
	2	Servo Power Board Assy	PWZ3509
	3	Analog Power Board Assy	PWZ3516
△	4	Ferrite Core	PTH1018
△	5	Power Transformer	PTT1242
△	6	Power Transformer (AUDIO)	PTT1336
NSP	7	Under Base	PNA2373
	8	Rear Base S06	PNA2374
NSP	9	Bottom Plate	PNA2376
NSP	10	Side Angle	PNB1583
	11	Insulator	PNW2766
NSP	12	Loading Mechanism Assy TT	PXA1598
	13	Power Knob G	PAC1852
	14	Caution Label (G)	VRW-329
	15	Caution Label	VRW1094
NSP	16	Caution Label HE	VRW1297
	17	Screw (3x6)	ABA1207
	18	Screw	ABA1011
	19	Screw	BBZ30P080FCC
	20	Screw	BBT30P080FCC
	21	Screw	IBZ30P080FCC
	22	Screw	IBZ30P120FCC
	23	Binder	Z09-056
NSP	24	Cord Stopper	DNF1128
NSP	25	Tape	PNM1249
	26	Cord Clamper	RNH-184
	27	Cushion 55	PNM1316

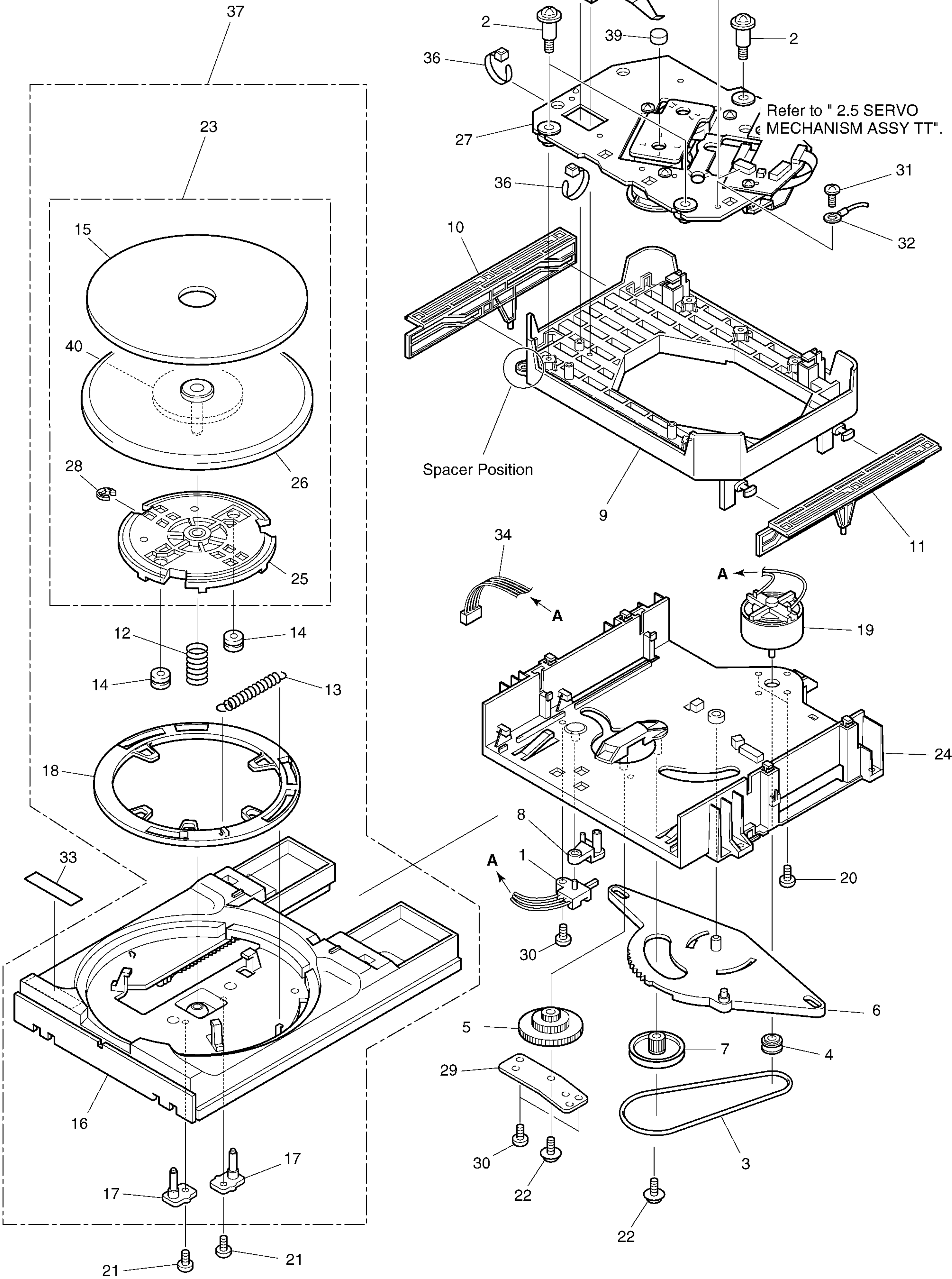
2.3 EXTERIOR (2/2)



PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	Display Board Assy	PWZ3526		31	Screw	FBT40P080FNI
	2	Function Board Assy	PWZ3532		32	Screw	BBZ40P080FNI
	3	Phone Board Assy	PWZ3538		33	Screw	PPZ30P080FMC
	4	H.P. Angle	PNB1582		34	Screw	BBZ30P080FCC
	5	Mode Button S06	PAC1848		35	Screw	BMZ30P050FMC
	6	Play Button G	PAC1850		36		
	7	Manual Button G	PAC1854		37	Tray Cushion	PNM1313
	8	Track Knob S06	PAC1855		38	Earth Plate T	PBK1149
	9	Headphone Knob G	PAC1862		39	Earth Plate S	PBK1150
	10	Display Window G	PAM1736		40	Screw	IBZ30P060FMC
	11	FL Sheet White	PAM1737		41	Connector Assy 5P	PDE1291
	12	Front Panel S06	PAN1357		42		
	13	Side Sash G	PAN1362		43	Panel Assy S06	PEA1345
	14	LED Lens	PNW2745		44	Spacer 4t	PEB1299
	15	Panel CDG	PNW2750		45	Cord Stopper	RNH-184
	16	Panel LG	PNW2751				
	17	Panel RG	PNW2752				
	18	Name Plate	VAM1051				
	19	Screw	PBA1096				
	20	Washer	PBE1010				
	21	Damping Spring	PBH1223				
	22	Tray Holder	PNW2753				
NSP	23	Tray Panel Holder	PNW2754				
	24	Tray Panel Assy S06	PXA1602				
NSP	25	Tray Panel G	PAN1355				
NSP	26	Tray Badge S06	PAN1358				
	27	Bonnet Case	PYY1226				
	28	Calor	RAT1002				
	29	Nut	NK90FCU				
	30	Spacer	PEC1034				

2.4 LOADING MECHANISM ASSY TT

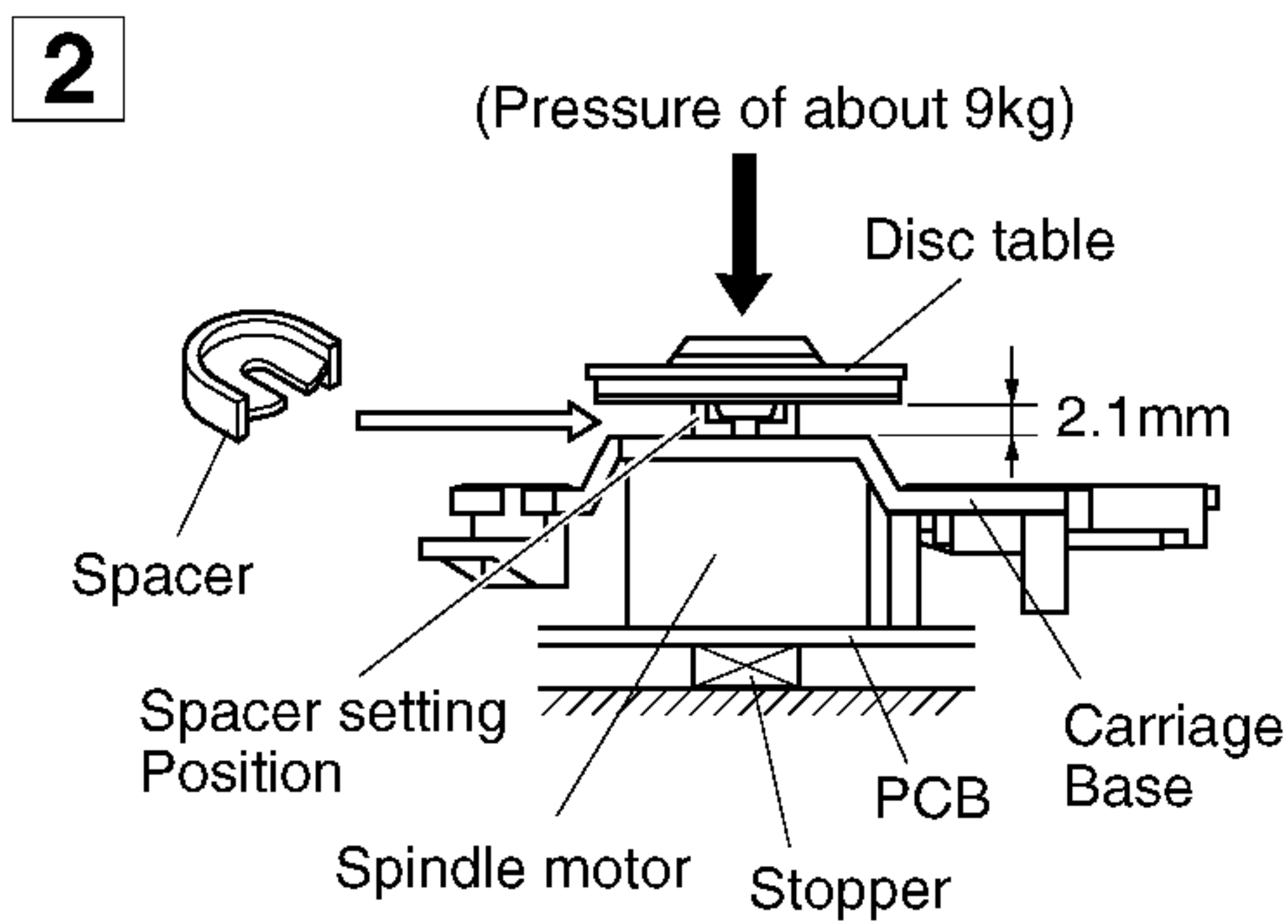
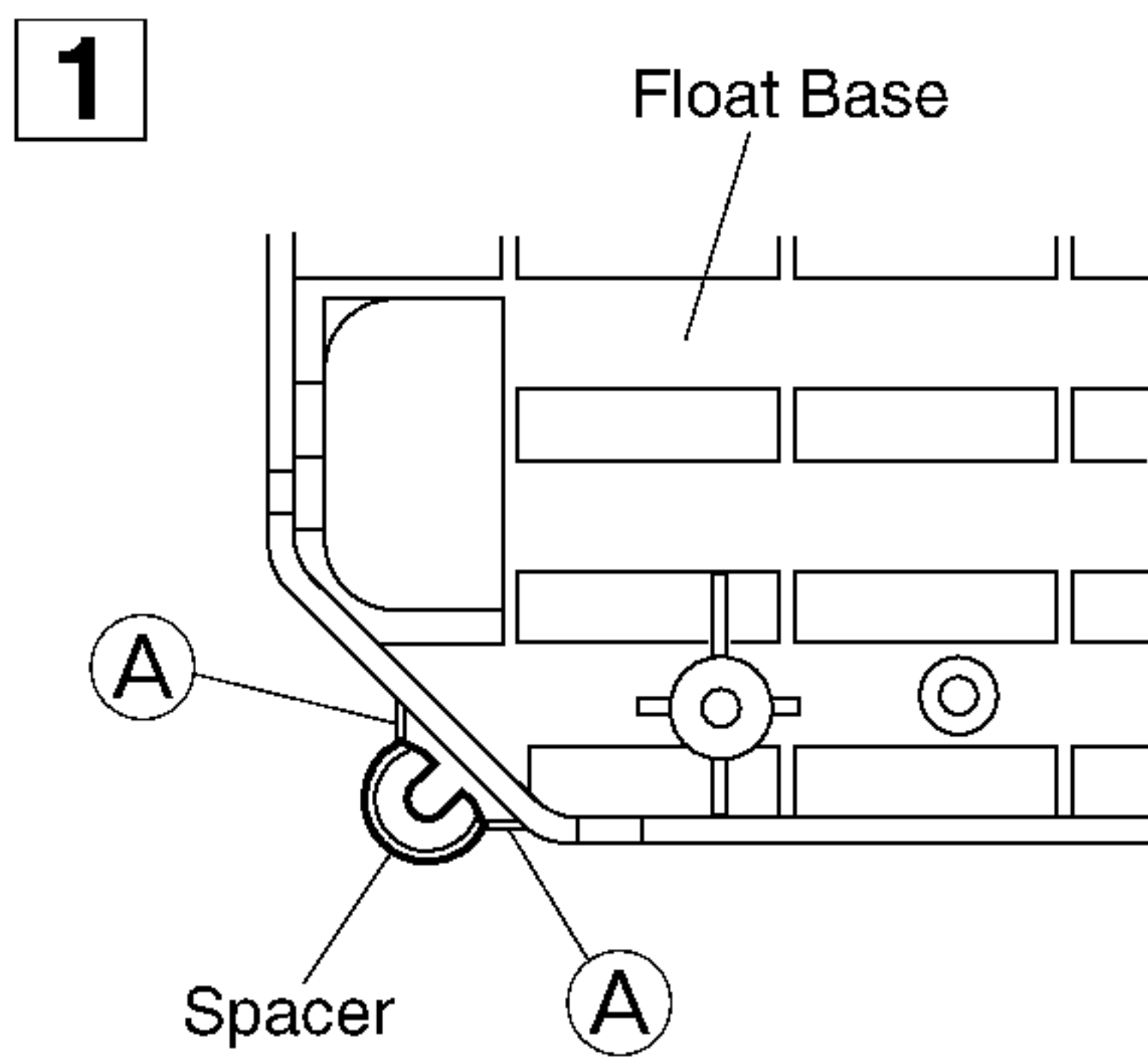


PARTS LIST

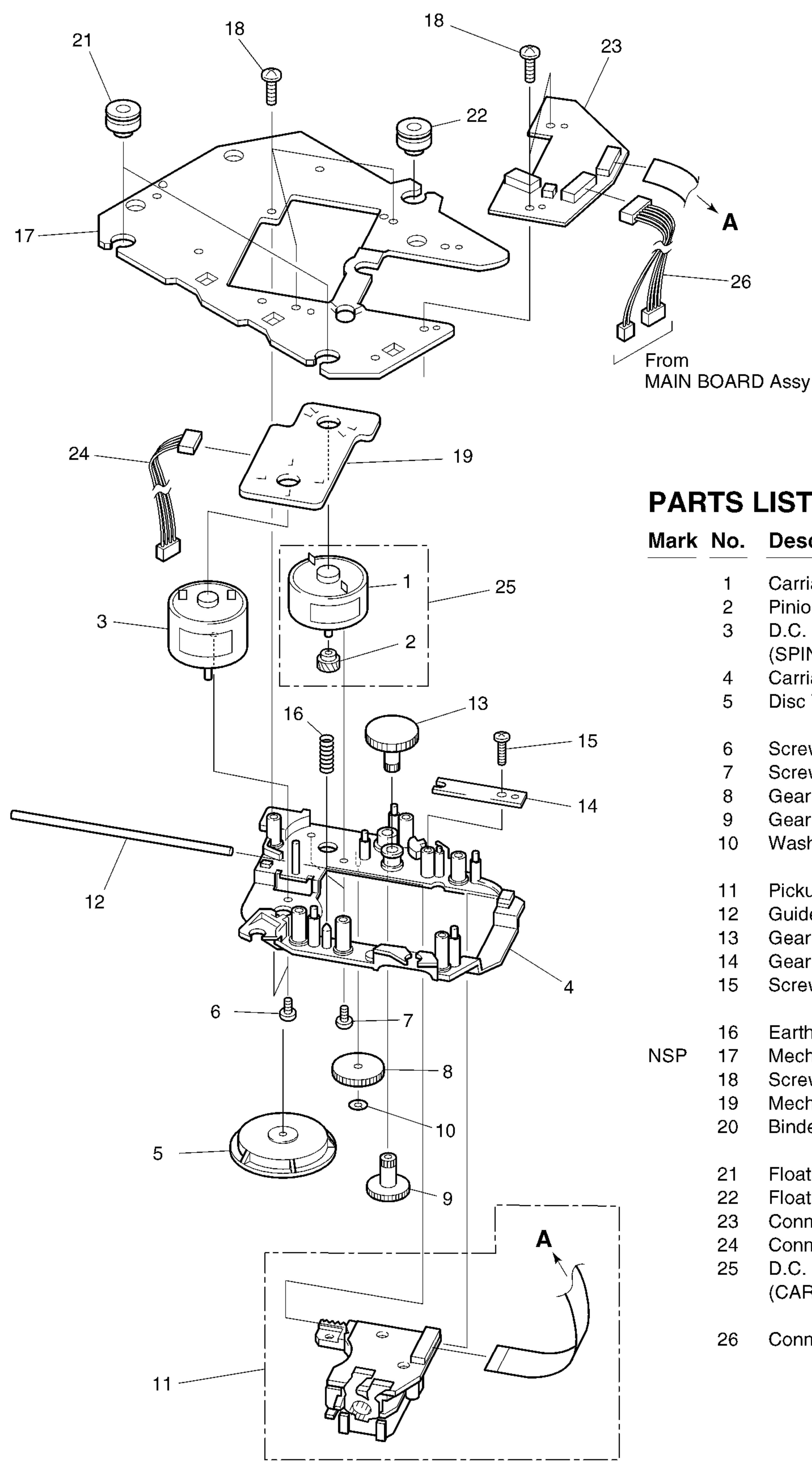
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	Lever Switch (S601)	DSK1003	NSP	26	Turn Table G (AL)	PAN1363
	2	Float Screw	PBA1027	NSP	27	Servo Mechanism Assy TT	PXA1600
	3	Rubber Belt	PEB1186		28	E Ring	Z39-017
	4	Motor Pulley	PNW1634		29	Shaft Holder	PNB1382
	5	Drive Gear	PNW1996		30	Screw	BPZ26P060FMC
	6	Synchronized Lever	PNW2168		31	Screw	BBZ26P060FMC
	7	Gear Pulley	PNW1998	NSP	32	Earth Lead	PDF1148
	8	SW Head	PNW1999		33	Caution Label	PRW1244
	9	Float Base	PNW2767		34	Connector Assy 5P	PDE1243
	10	Left Cam	PNW2001		35	Connector Assy 6P	PDE1287
	11	Right Cam	PNW2002		36	Binder	PEC-107
	12	Float Spring	PBH1222	NSP	37	Tray Assy TT	PXA1599
	13	Lock Spring	PBH1121		38	Clamp Spring	PBK1148
	14	Float Rubber	PEB1014		39	Spacer	PBF1014
	15	Table Rubber Sheet	PEB1181	NSP	40	Table Base	PXA1382
	16	Tray	PNW2762		41	Screw	IBZ30P060FCC
	17	Table Guide	PNW2004				
	18	Lock Plate	PNW2005				
	19	D.C. Motor (0.75W, LOADING)	PXM1010				
	20	Screw	BMZ26P040FMC				
	21	Screw	IPZ26P060FCU				
	22	Screw	IPZ20P080FMC				
	23	Turn Table Assy	PEA1342				
	24	Loading Base	PNW2761				
	25	Table Shaft Holder Assy	PXA1383				

● How to Install the Disc Table

- 1 Use nippers or other tool to cut the two sections marked (A) in figure 1.
- 2 While supporting the spindle motor shaft with the stopper, put spacer on top of the carriage base, and stick the disc table on top (takes about 9kg pressure). Take off the spacer.



2.5 SERVO MECHANISM ASSY TT



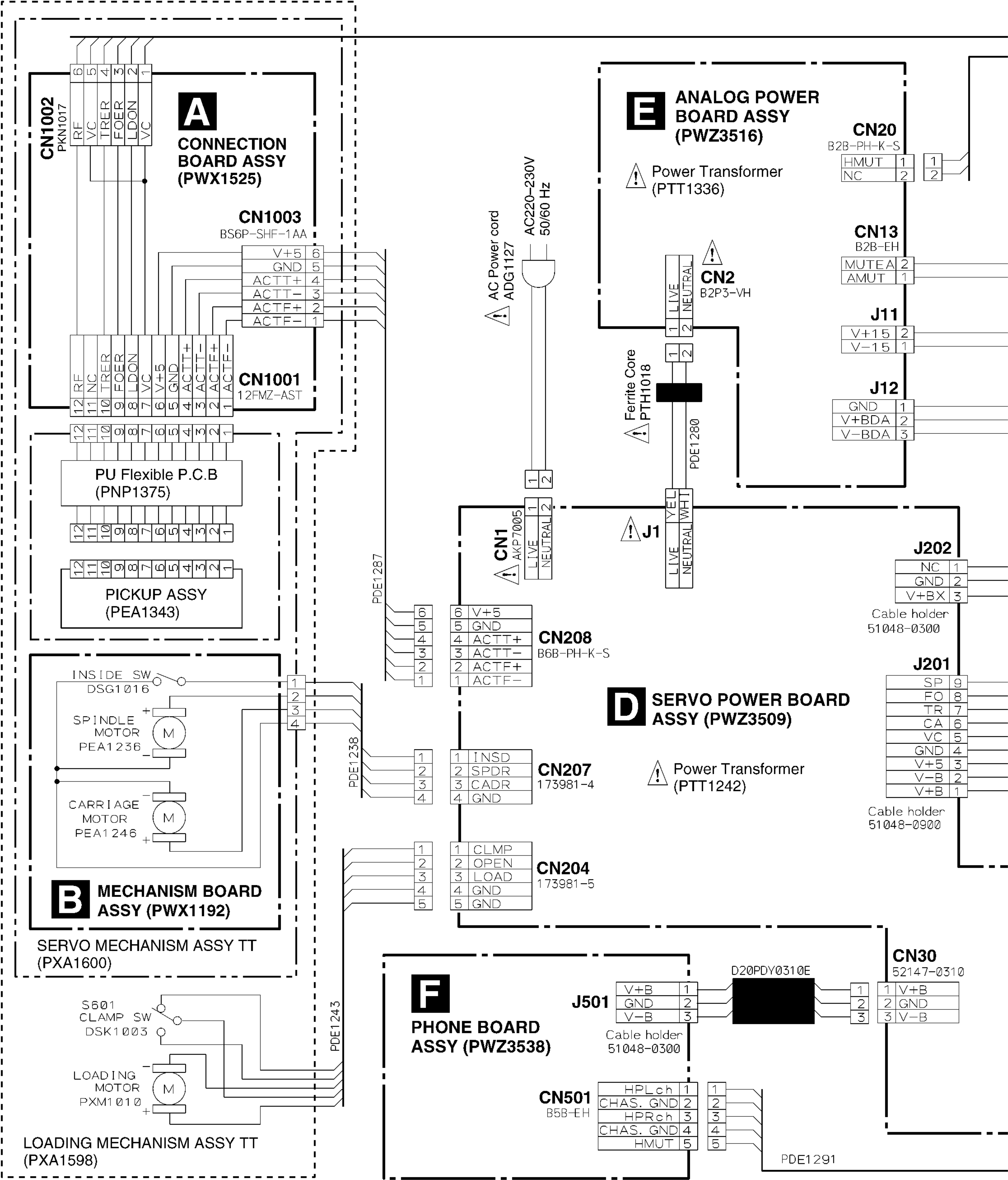
PARTS LIST

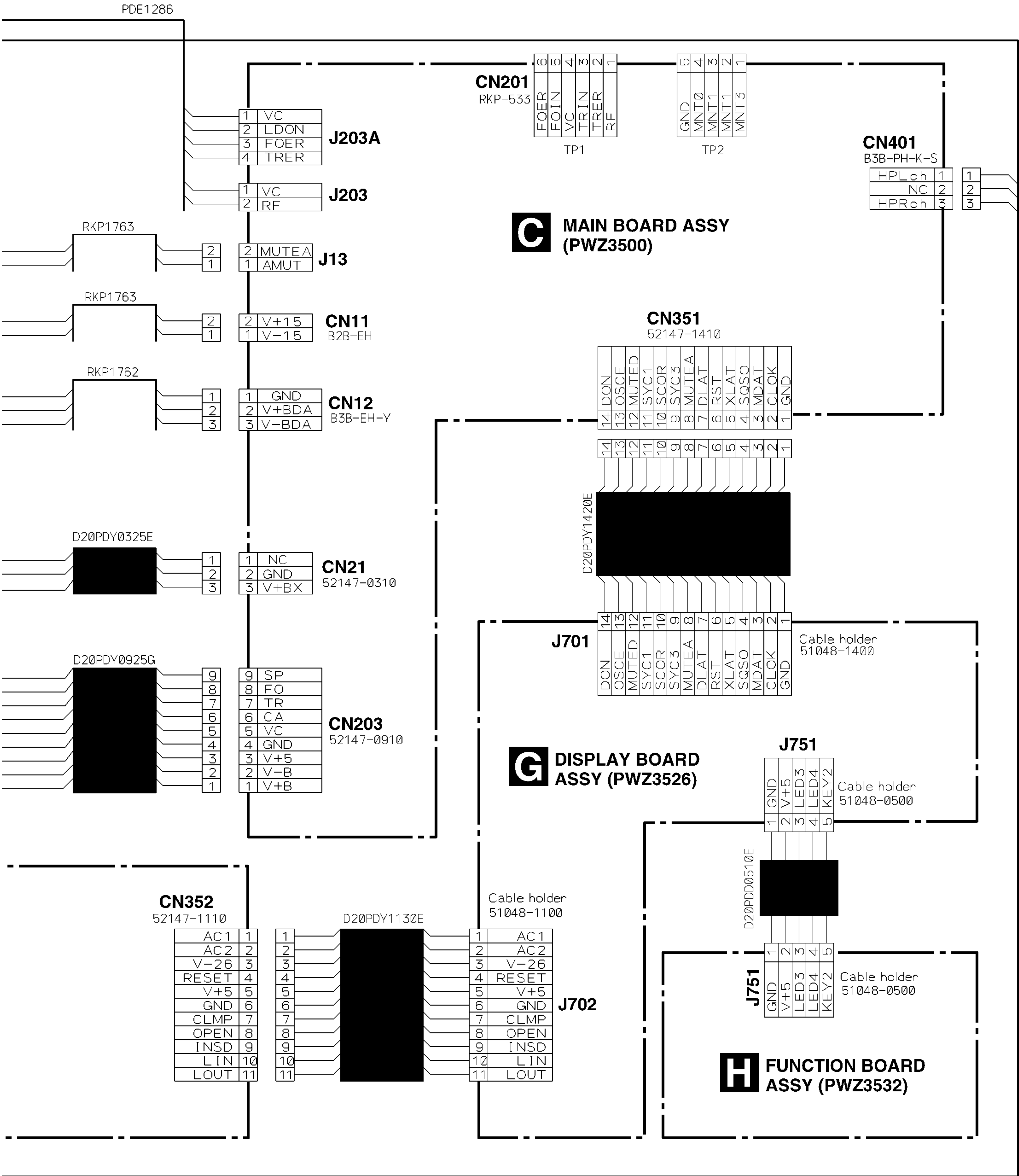
Mark	No.	Description	Parts No.
	1	Carriage D.C. Motor (0.3W)	PXM1027
	2	Pinion Gear	PNW2055
	3	D.C. Motor Assy (SPINDLE, with Oil)	PEA1236
	4	Carriage Base	PNW2699
	5	Disc Table	PNW1067
	6	Screw	JFZ20P030FNI
	7	Screw	JFZ17P025FZK
	8	Gear 3	PNW2054
	9	Gear 2	PNW2053
	10	Washer	WT12D032D025
	11	Pickup Assy	PEA1343
	12	Guide Bar	PLA1094
	13	Gear 1	PNW2052
	14	Gear Stopper	PNB1303
	15	Screw	BPZ26P060FMC
NSP	16	Earth Spring	PBH1132
	17	Mechanism Base TT	PNB1586
	18	Screw	BPZ26P100FMC
	19	Mechanism Board Assy	PWX1192
	20	Binder	PEC-107
	21	Float Rubber	PEB1031
	22	Float Rubber	PEB1170
	23	Connection Board Assy	PWX1525
	24	Connector Assy 4P	PDE1238
	25	D.C. Motor Assy (CARRIAGE)	PEA1246
	26	Connector Assy 6P	PDE1286

3. SCHEMATIC DIAGRAM

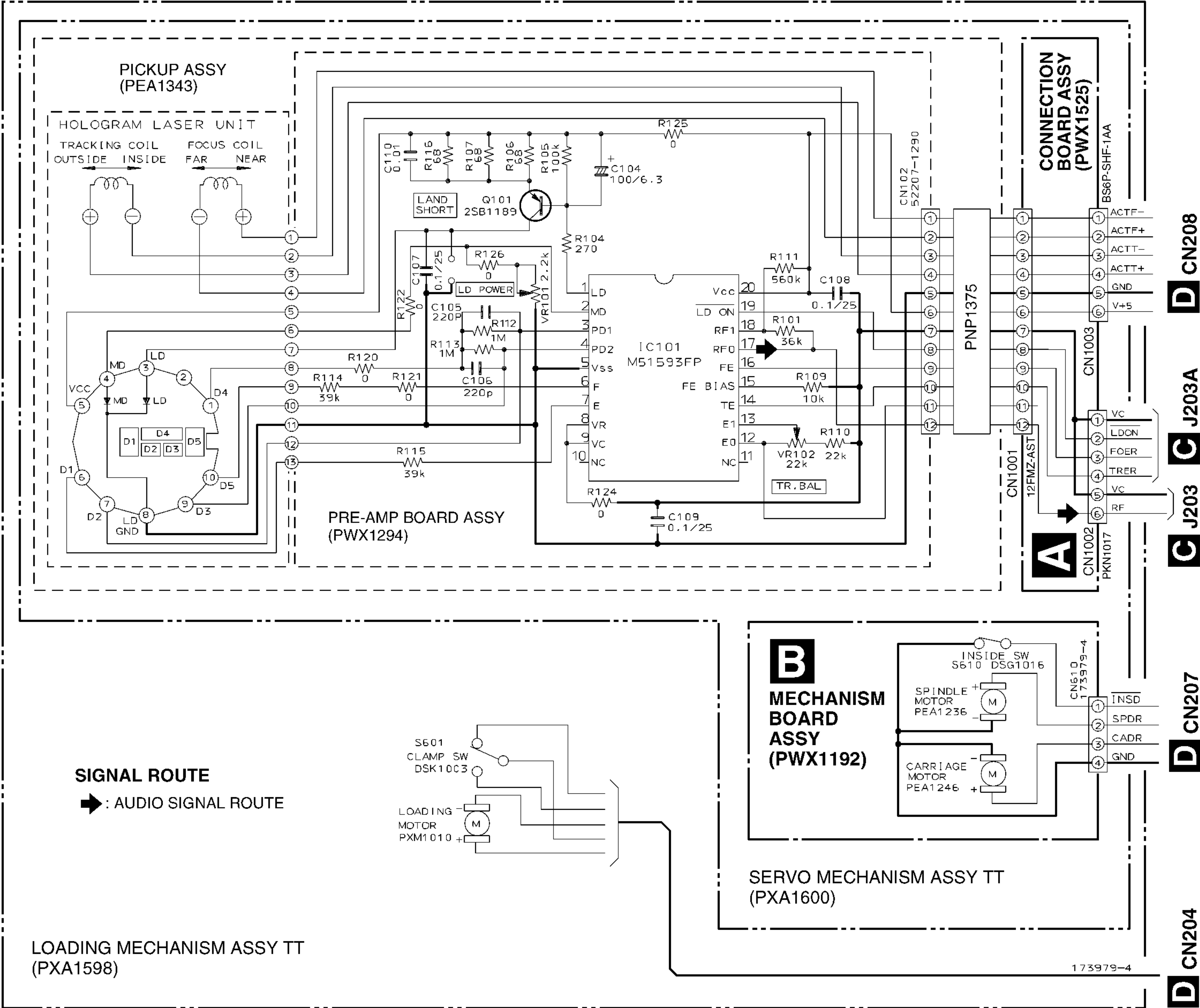
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "PCB PARTS LIST".

3.1 OVERALL SCHEMATIC DIAGRAM





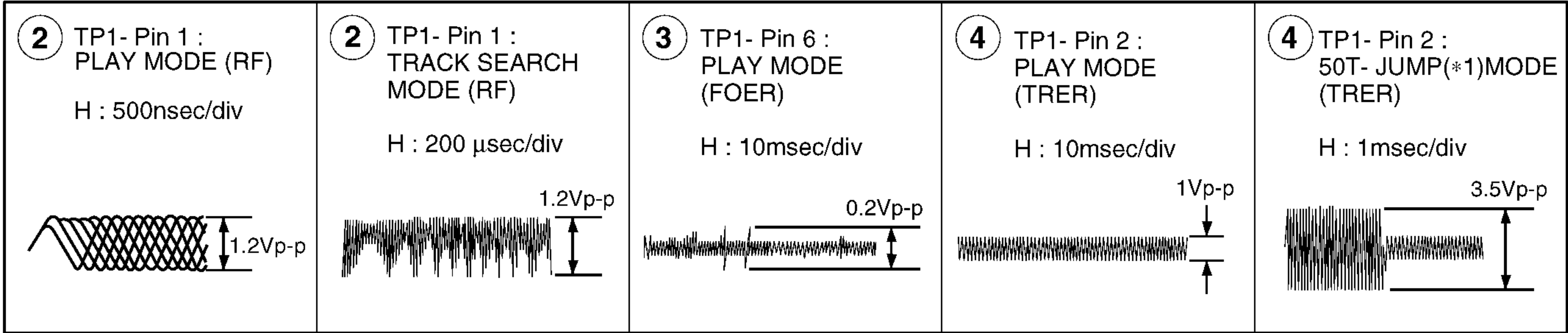
3.2 CONNECTION BOARD ASSY AND MECHANISM BOARD ASSY



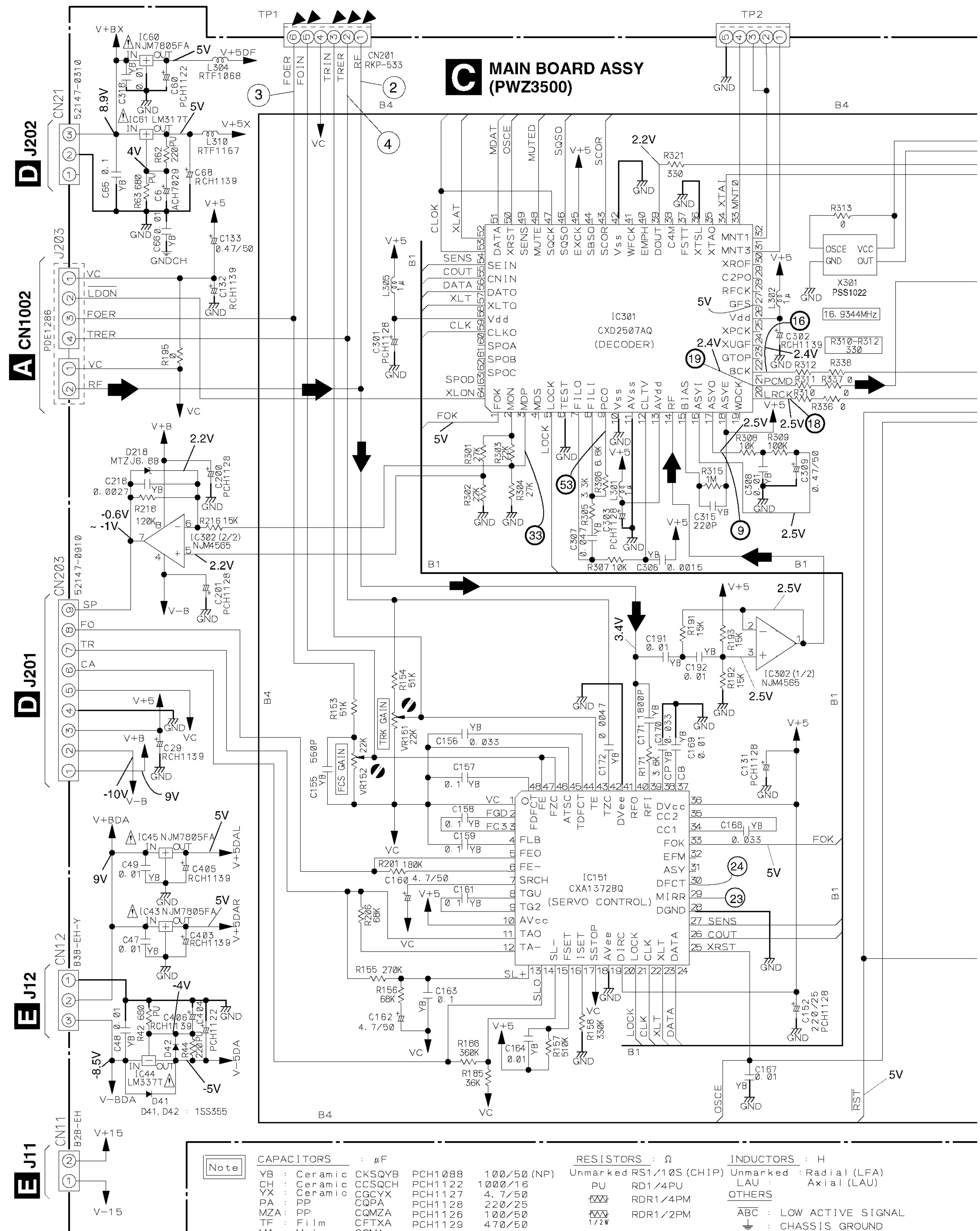
Waveforms

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

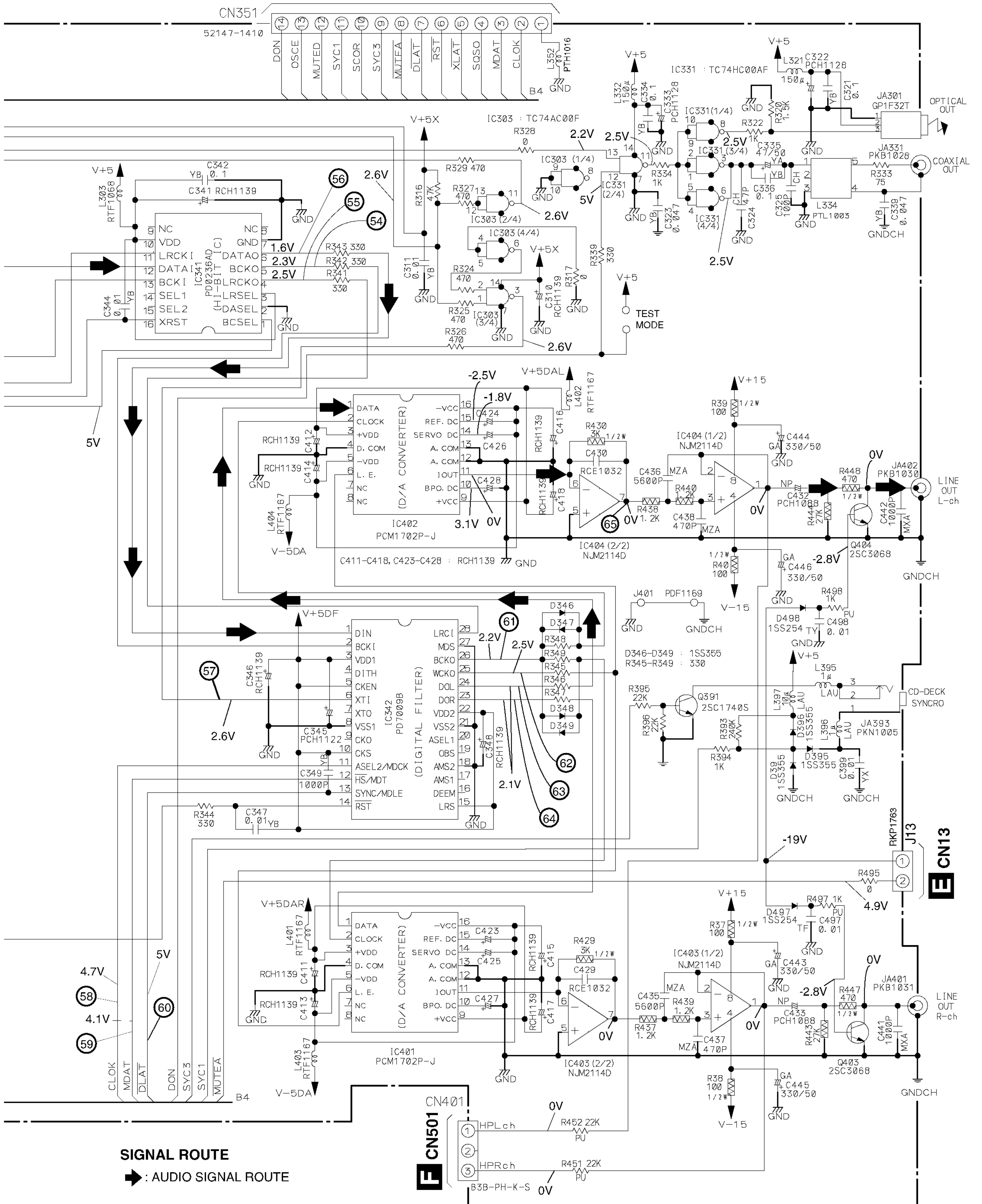
*1 50T-JUMP: After switching to the pause mode, press the manual search key.
*2 FOCUS-IN: Press the play key without loading a disc.



⑤ IC202- Pin 3 : FOCUS-IN(*2) MODE (FODR) H : 200msec/div	⑧ IC202- Pin 9 : PLAY MODE (CADR) H : 2sec/div	②③ TRACK SEARCH MODE Upper:TP1-Pin1(RF) Lower:IC151-Pin 29 (MIRR) H : 200μsec/div 1Vp-p	⑤⑥ IC341- Pin 6 : PLAY MODE (1 kHz) (DATAO) H : 0.2 μsec/div	⑥② IC342- Pin 25 : PLAY MODE (1 kHz) (WCKO) H : 1 μsec/div
⑤ IC202- Pin 3 : PLAY MODE (FODR) H : 1msec/div	⑧ IC202- Pin 9 : TRACK SEARCH MODE (CADR) H : 200msec/div	②④ PLAY MODE Upper:TP1-Pin1(RF) Lower:IC101-Pin 30 (DFCT) H : 200μsec/div 1.5Vp-p	⑤⑦ IC342- Pin 6 : PLAY MODE (1 kHz) (XTI) H : 50 nsec/div	⑥③ IC342- Pin 24 : PLAY MODE (1 kHz) (DOL) H : 0.1 μsec/div
⑥ IC202- Pin 4 : PLAY MODE (TRDR) H : 1msec/div	⑨ IC301- Pin 17 : PLAY MODE ASY0 (EFM) H : 500nsec/div	③③ IC301- Pin 3 : PLAY MODE (MDP) H : 2μsec/div	⑤⑧ IC342- Pin 11 : PLAY MODE (1 kHz) (CLOK) H : 0.2 msec/div	⑥④ IC342- Pin 23 : PLAY MODE (1 kHz) (DOR) H : 0.1 μsec/div
⑥ IC202- Pin 4 : 50T-JUMP(*1) MODE (TRDR) H : 1msec/div	①⑥ IC301- Pin 22 : PLAY MODE (1kHz) (BCLK) H : 500nsec/div	⑤③ IC301- Pin 9 : PLAY MODE (PCO) H : 10μsec/div	⑤⑨ IC342- Pin 12 : PLAY MODE (1 kHz) (MDAT) H : 0.2 msec/div	⑥⑤ IC404- Pin 7 : PLAY MODE (1 kHz) H : 0.2 msec/div
⑦ IC201- Pin 1 : PLAY MODE (SPDR) H : 50msec/div	①⑧ IC301- Pin 20 : PLAY MODE (1kHz) (LRCK) H : 10μsec/div	⑤④ IC341- Pin 5 : PLAY MODE (1 kHz) (BCKO) H : 0.2 μsec/div	⑥⑩ IC342- Pin 13 : PLAY MODE (1 kHz) (DLAT) H : 0.2 μsec/div	
⑦ IC201- Pin 1 : TRACK SEARCH MODE (SPDR) H : 50msec/div	①⑨ IC301- Pin 21 : PLAY MODE (1kHz) (DATA) H : 500nsec/div	⑤⑤ IC341- Pin 4 : PLAY MODE (1 kHz) (LRCKO) H : 10 μsec/div	⑥① IC342- Pin 26 : PLAY MODE (1 kHz) (BCKO) H : 50 nsec/div	



G J701

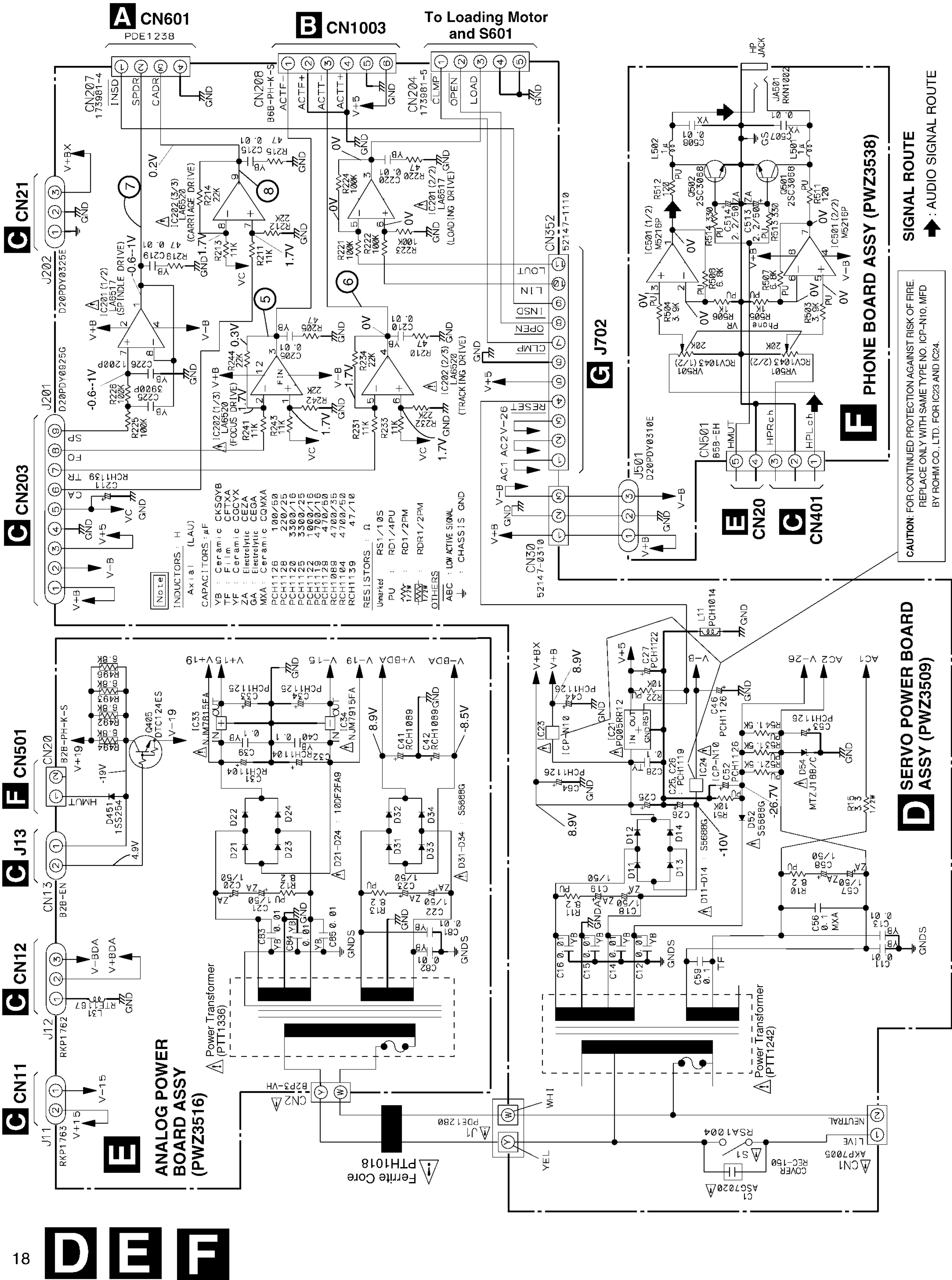


SIGNAL ROUTE
➔ : AUDIO SIGNAL ROUTE

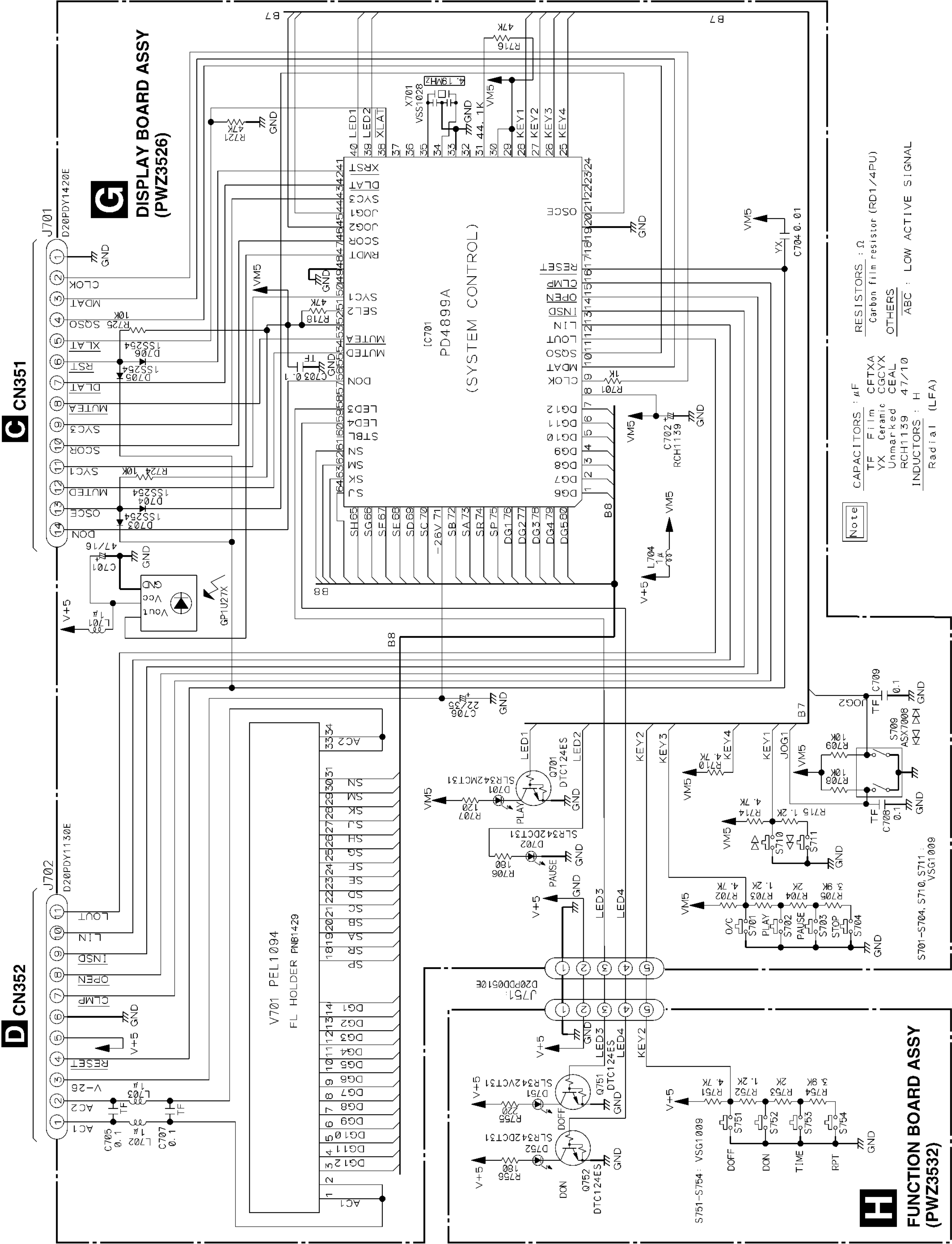
F CN501

E CN13

3.4 SERVO POWER BOARD ASSY, ANALOG POWER BOARD ASSY AND PHONE BOARD ASSY

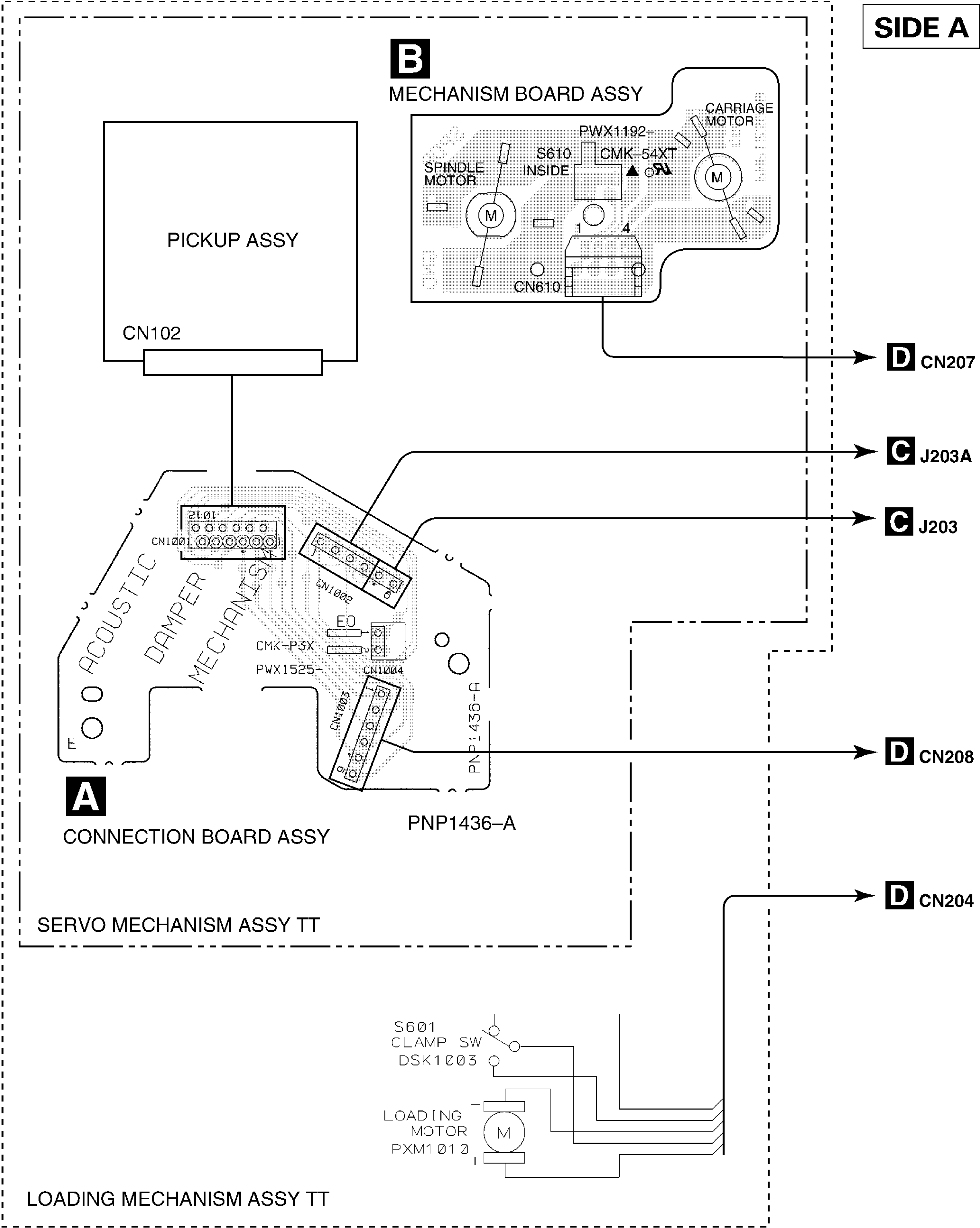


3.5 DISPLAY BOARD ASSY AND FUNCTION BOARD ASSY



4. PCB CONNECTION DIAGRAM

4.1 CONNECTION BOARD ASSY AND MECHANISM BOARD ASSY

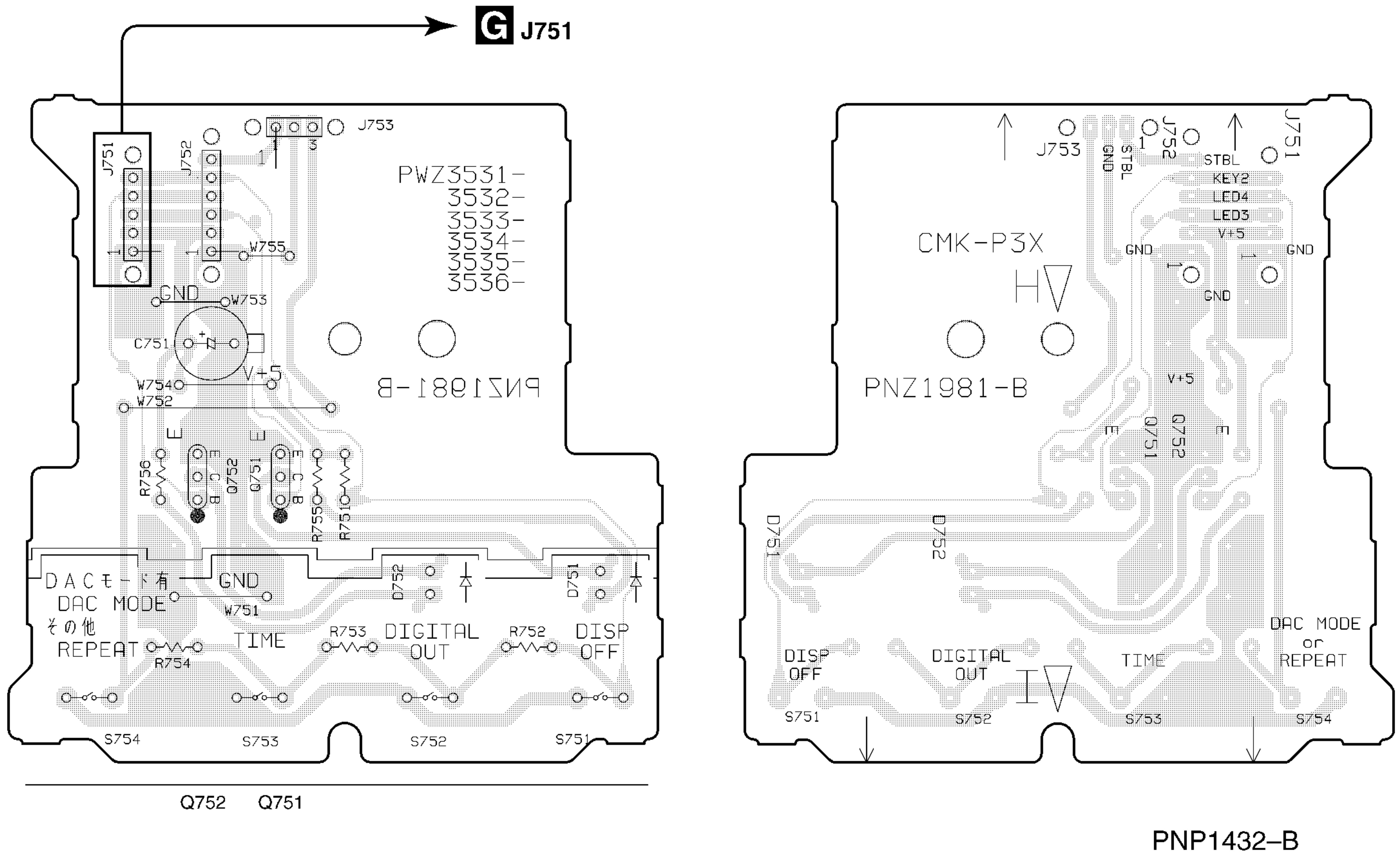


4.2 FUNCTION BOARD ASSY

SIDE A

SIDE B

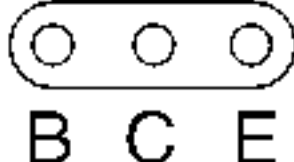
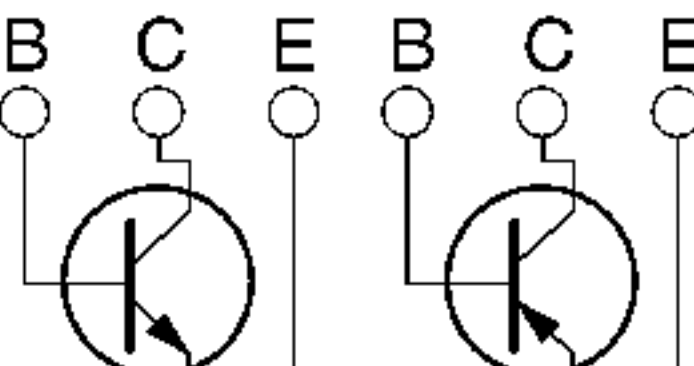
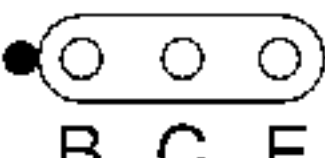
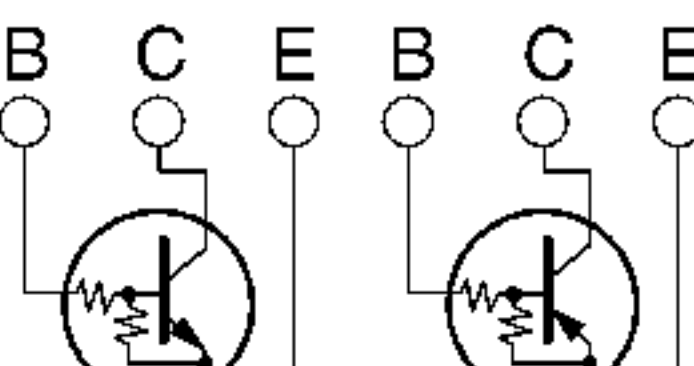
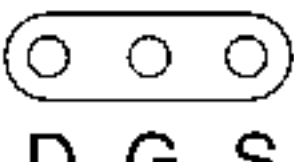
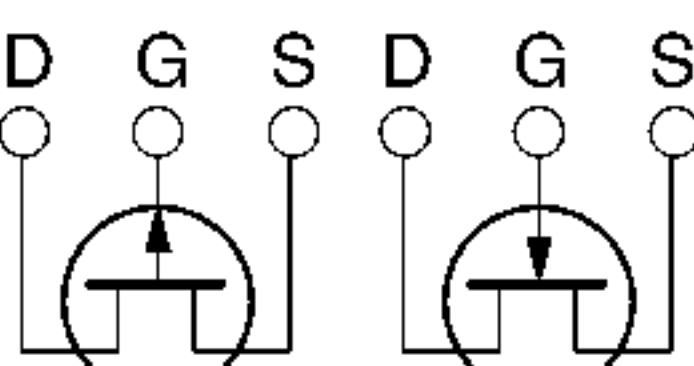
H FUNCTION BOARD ASSY



PNP1432-B

NOTE FOR PCB DIAGRAMS:

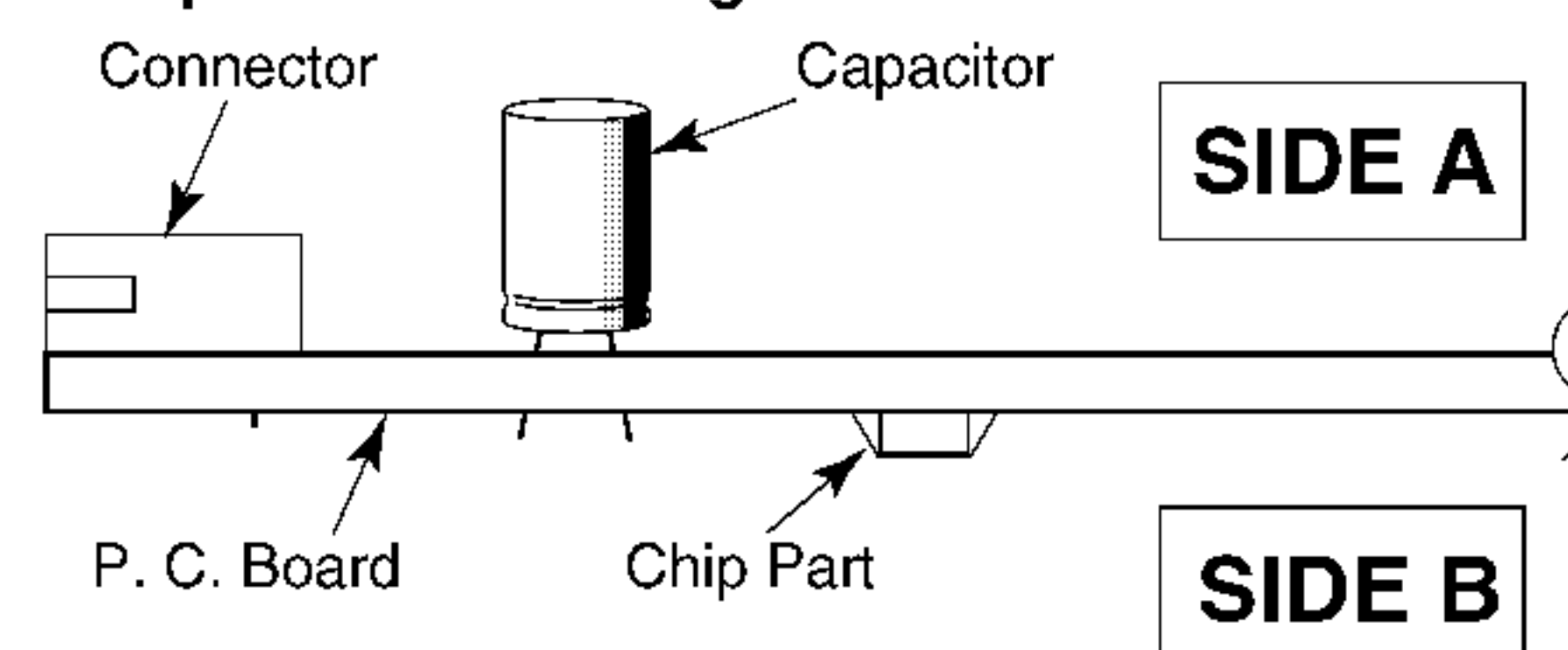
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Resistor array
		3-terminal regulator

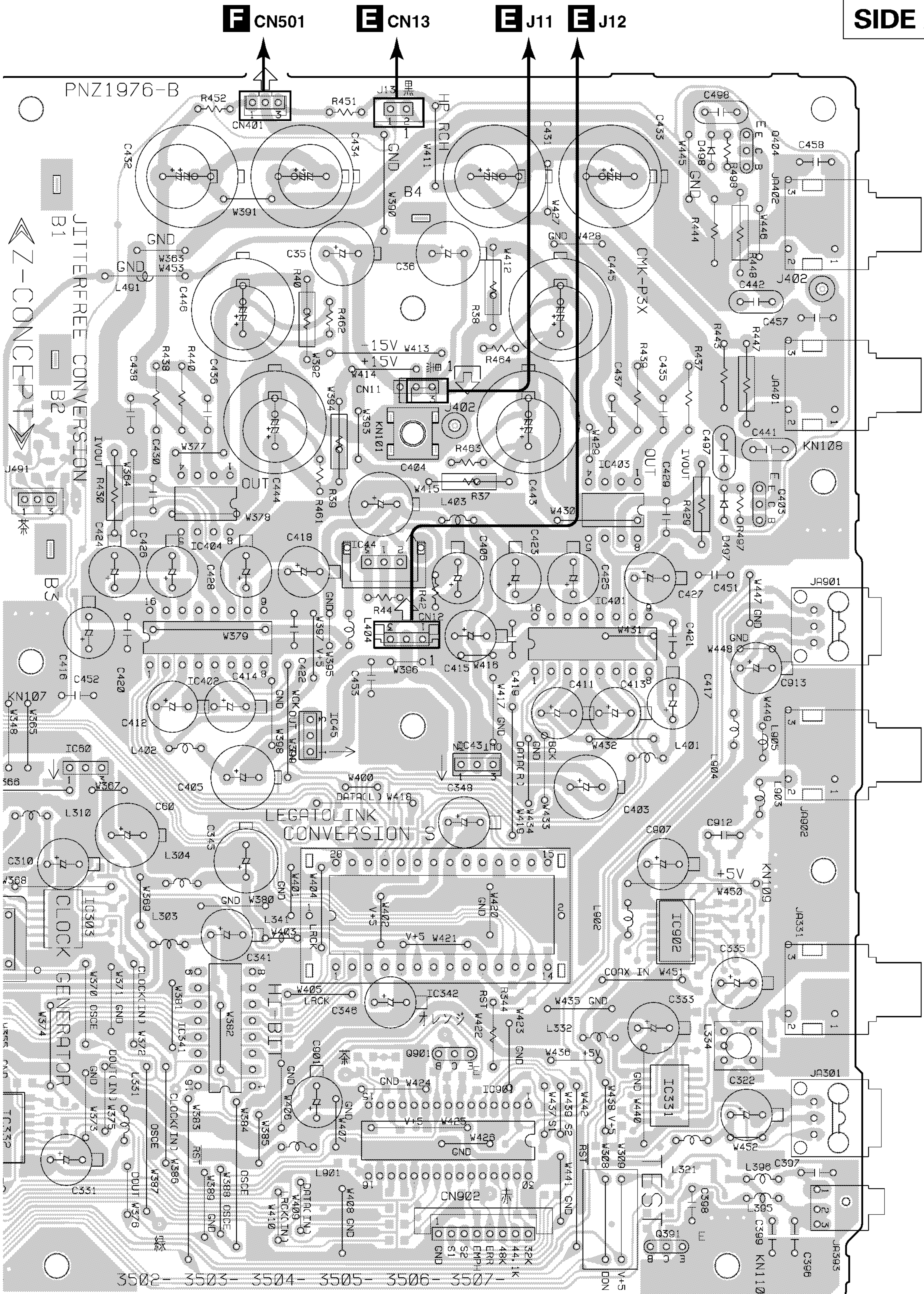
3. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.

4. Viewpoint of PCB diagrams



C F





Q404

Q403

C403

IC404

IC44

IC402

C401

IC45

C43

IC60

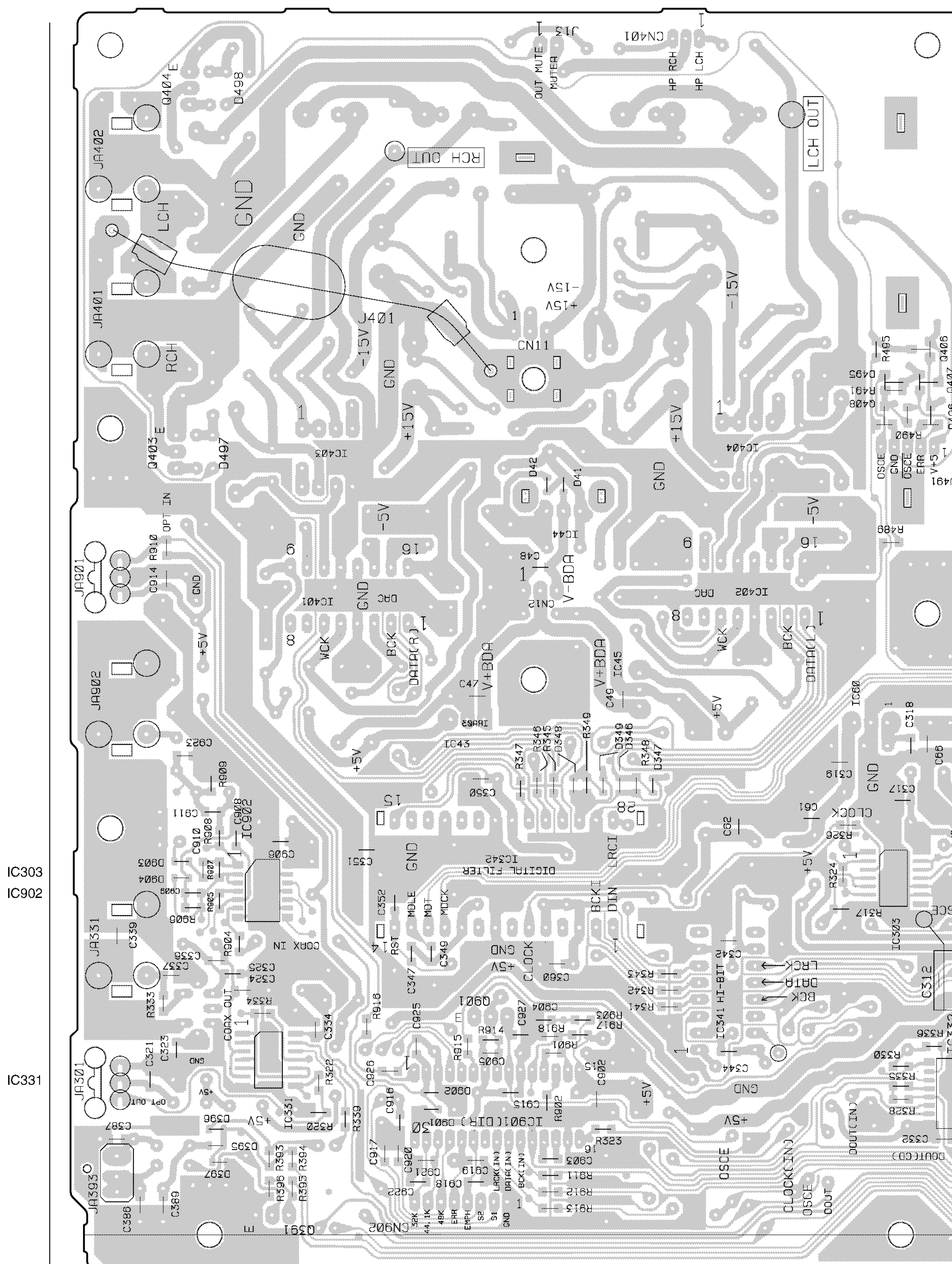
C342

IC341

Q901

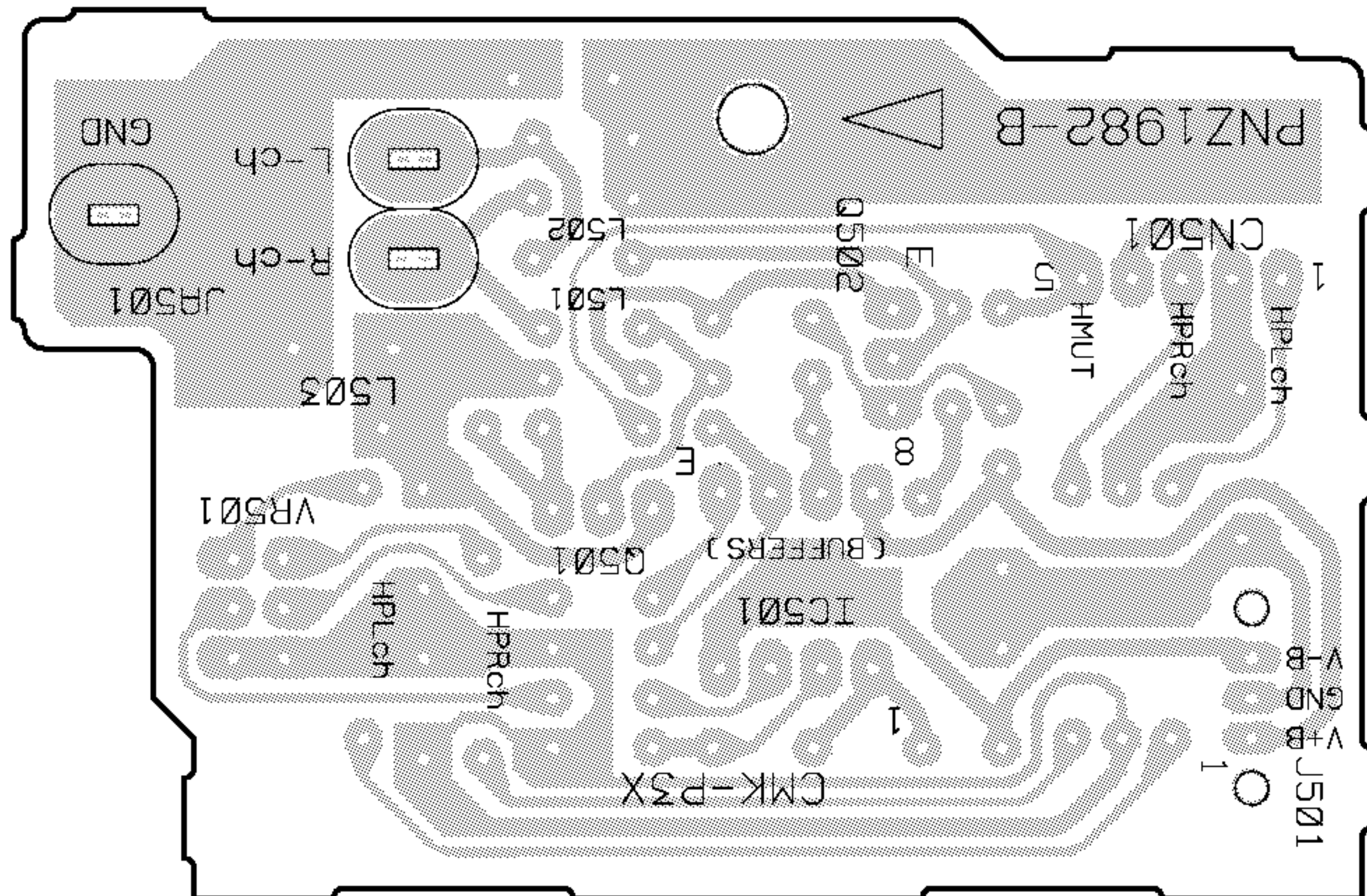
C901

Q391

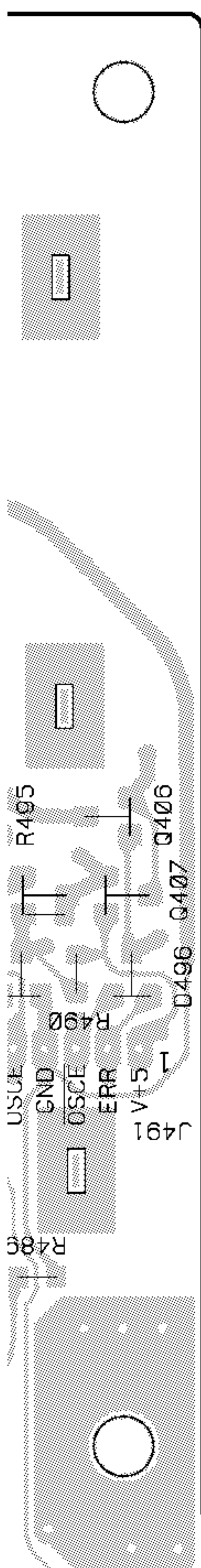


SIDE B

F PHONE BOARD ASSY



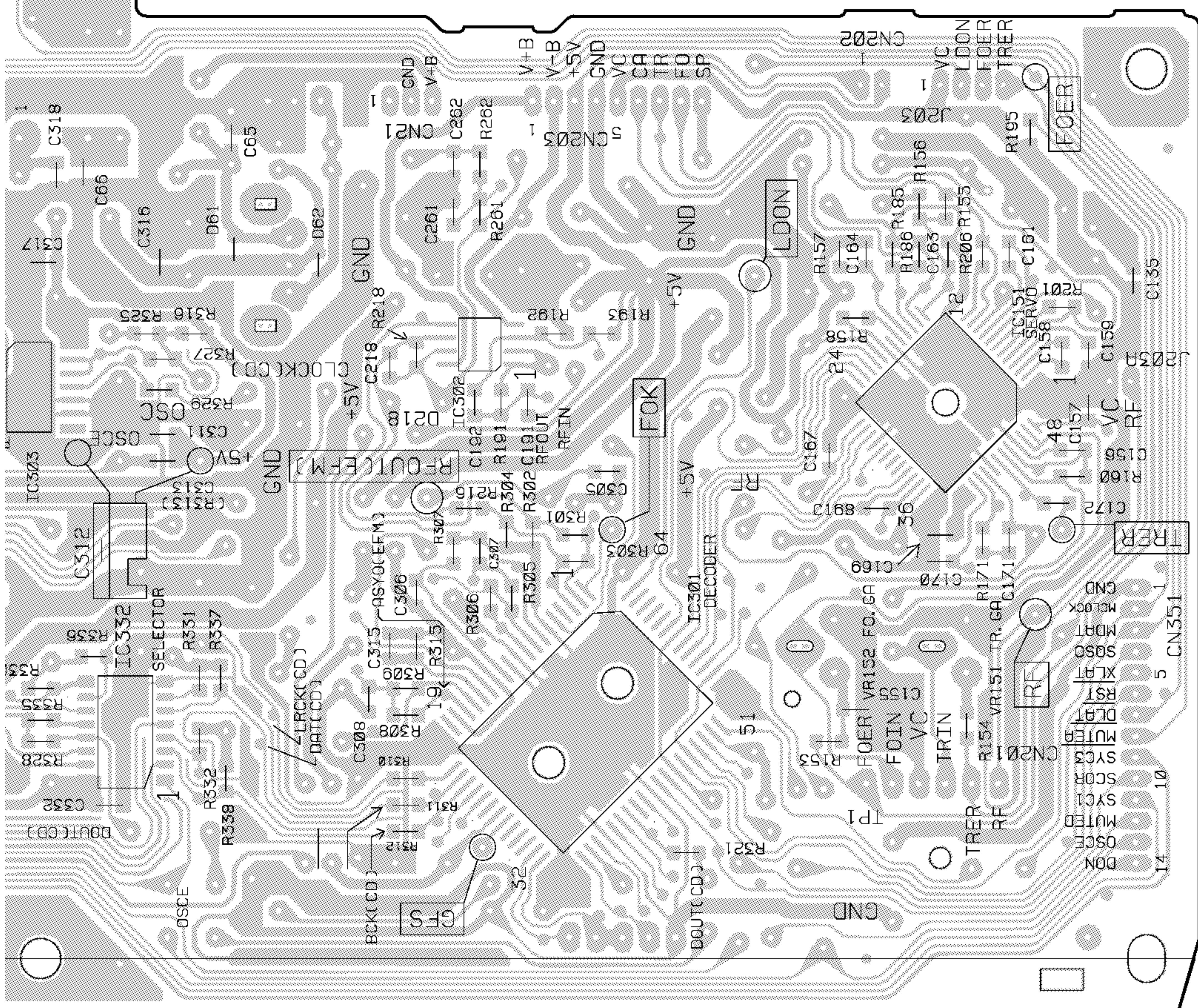
PNP1432-B



Q406

Q407

Q408

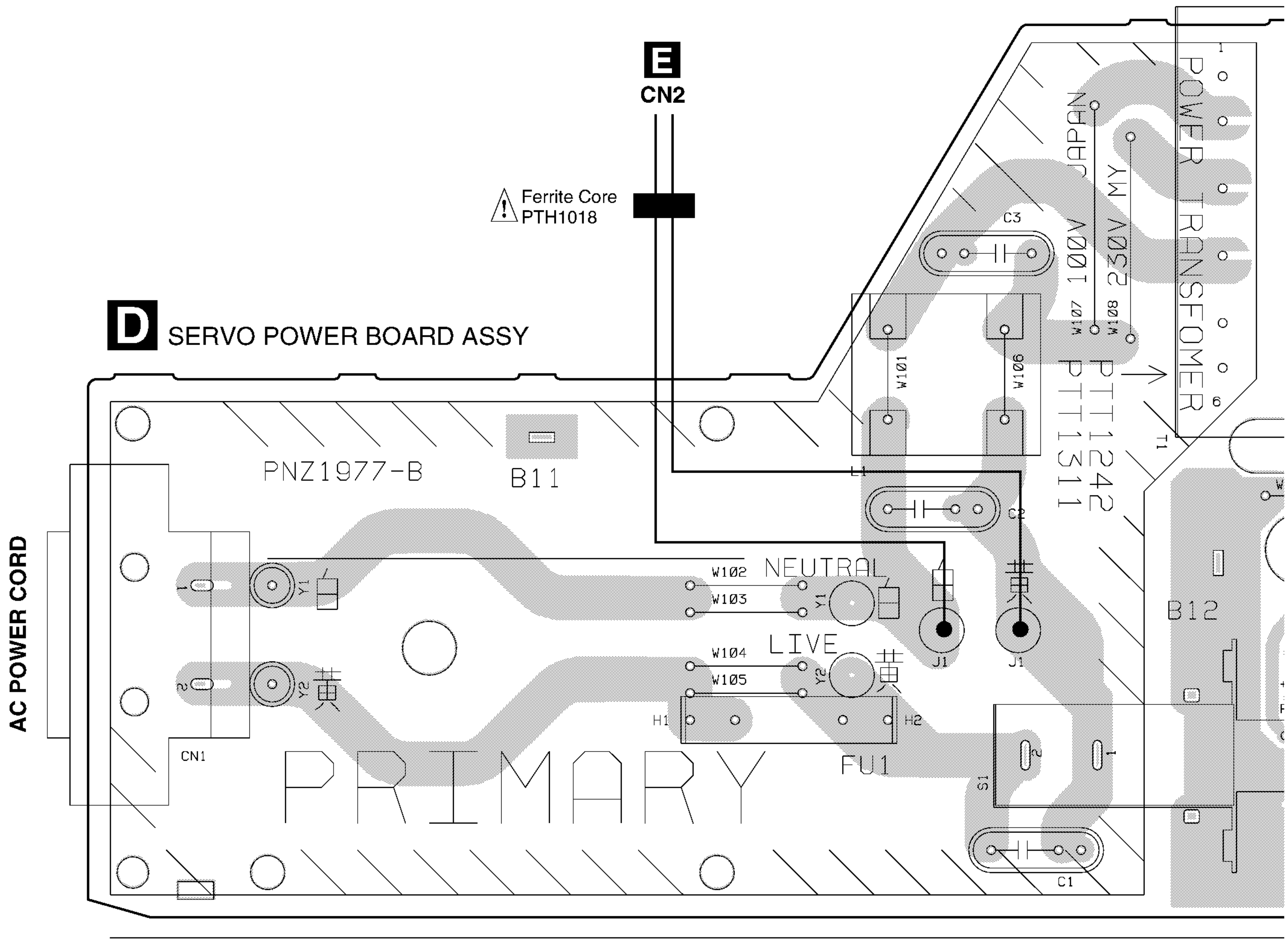


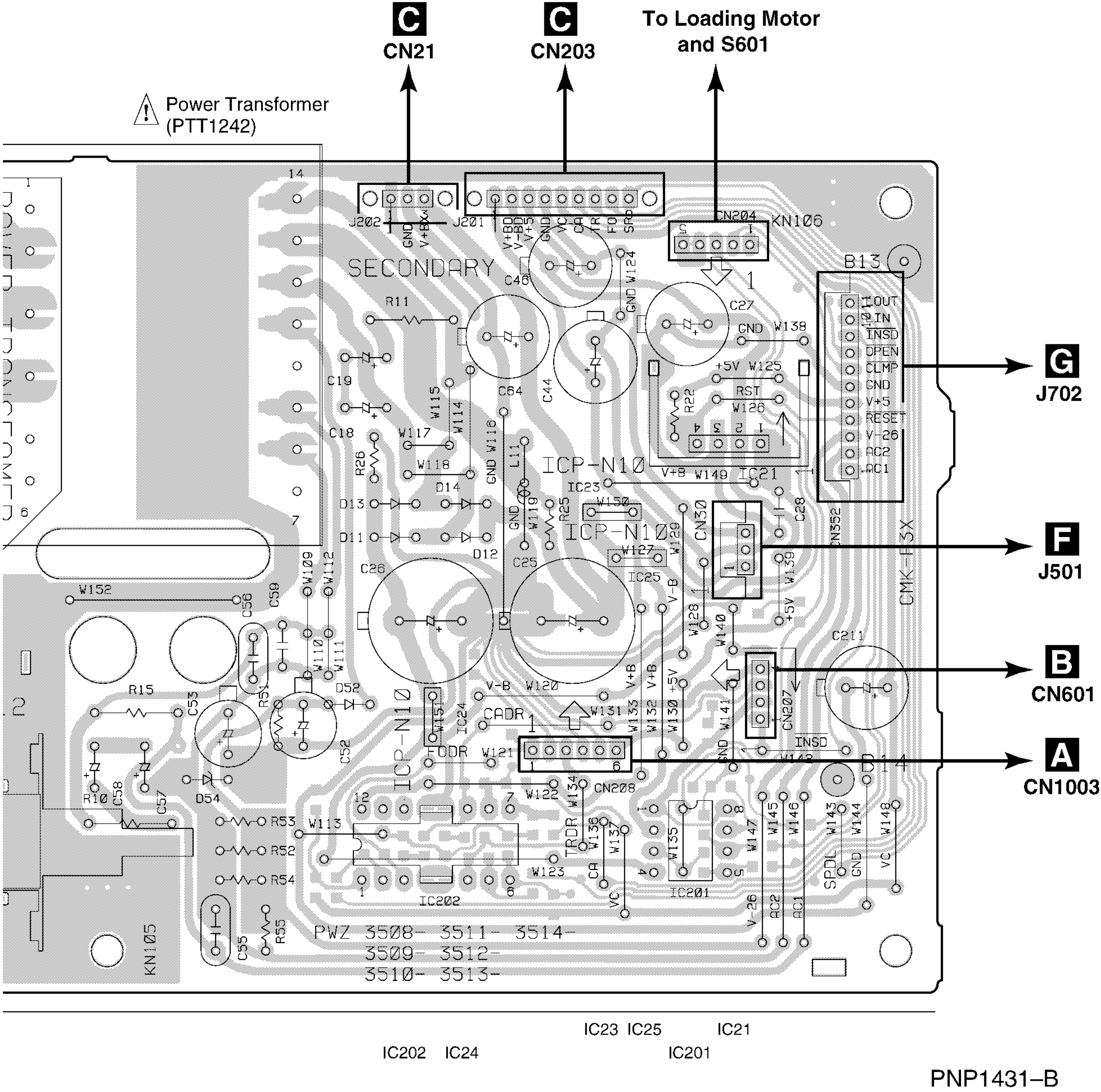
IC302	
	IC151

IC301
IC332

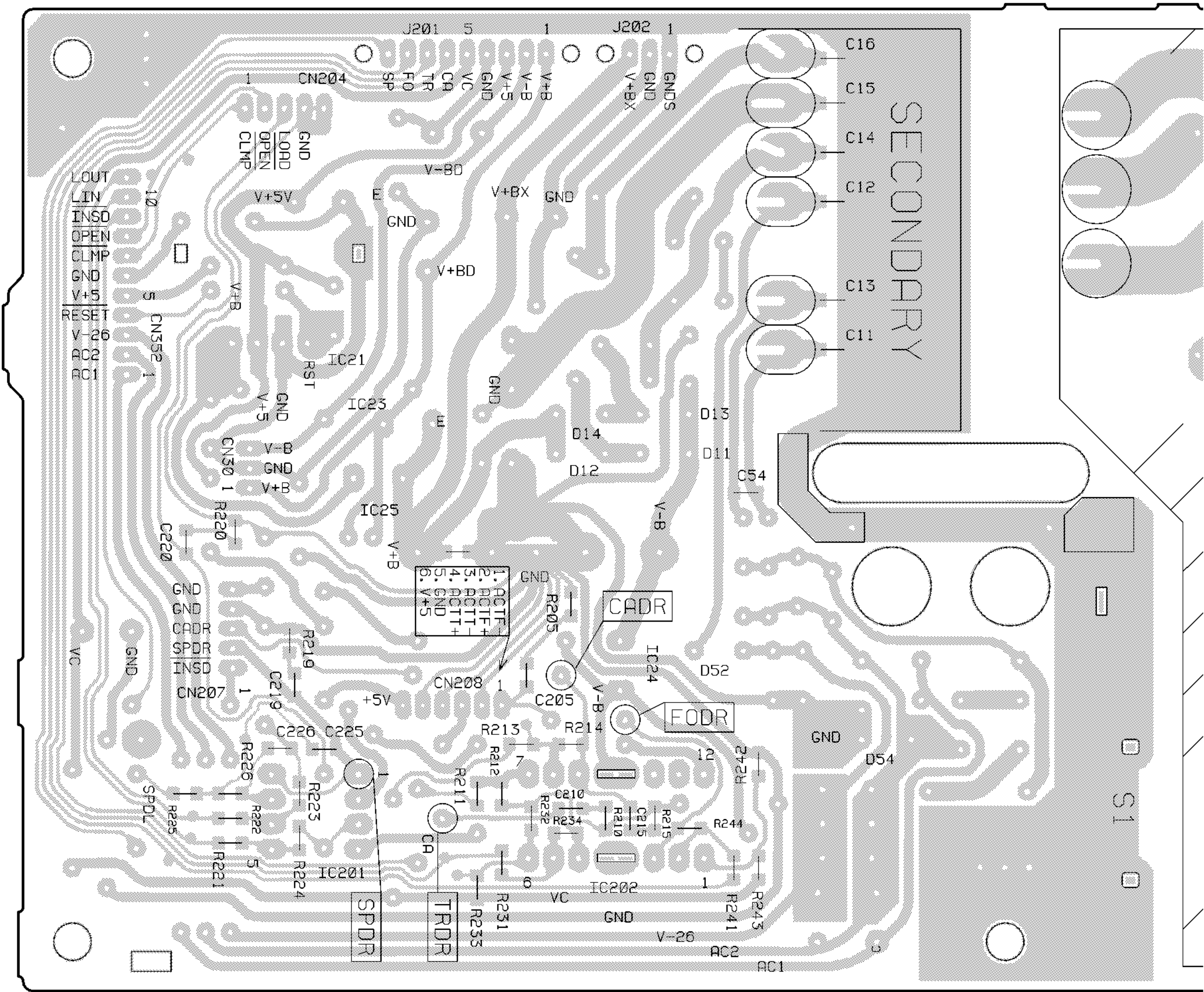
PNP1431-B

4.4 SERVO POWER BOARD ASSY

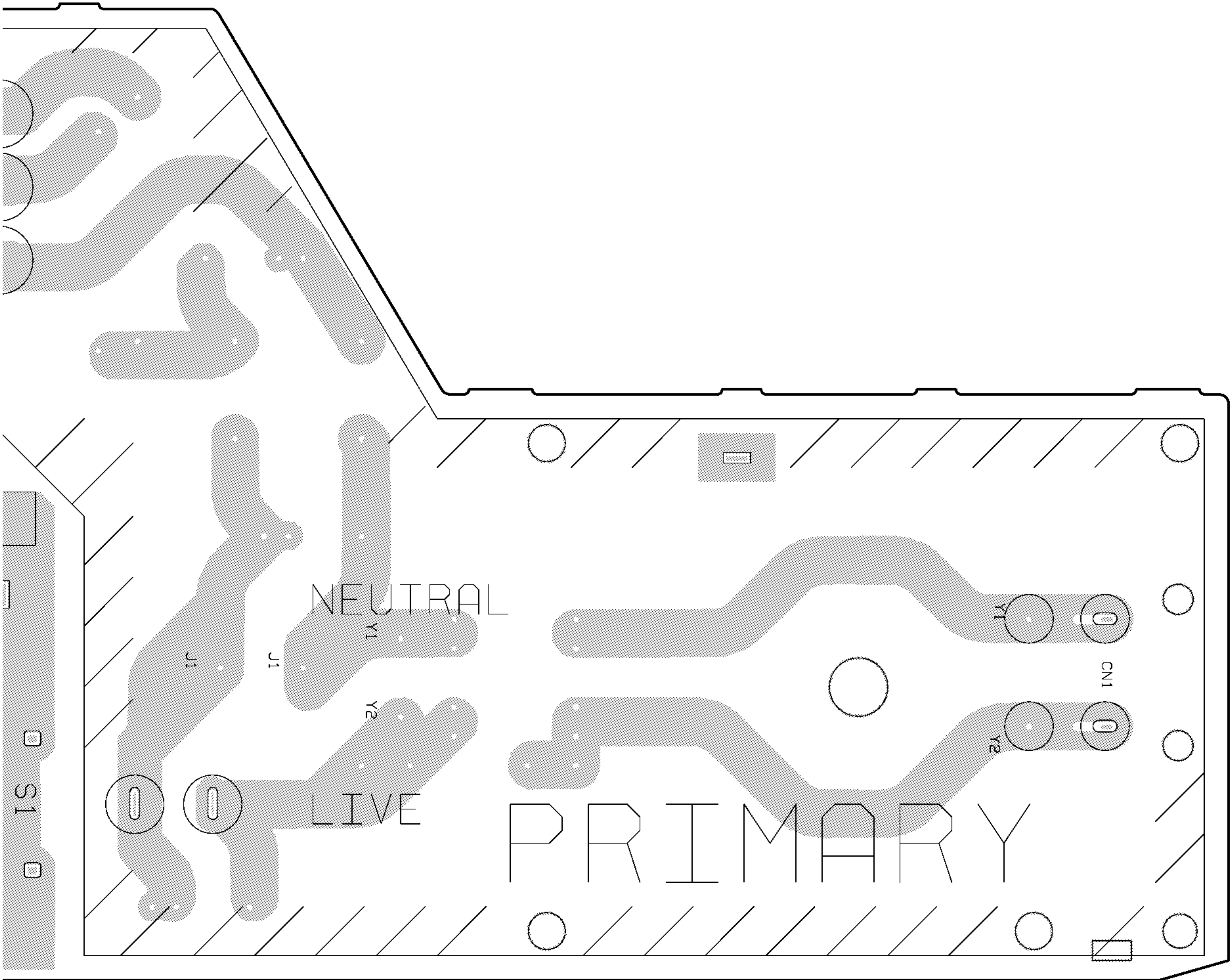




D SERVO POWER BOARD ASSY



SIDE B

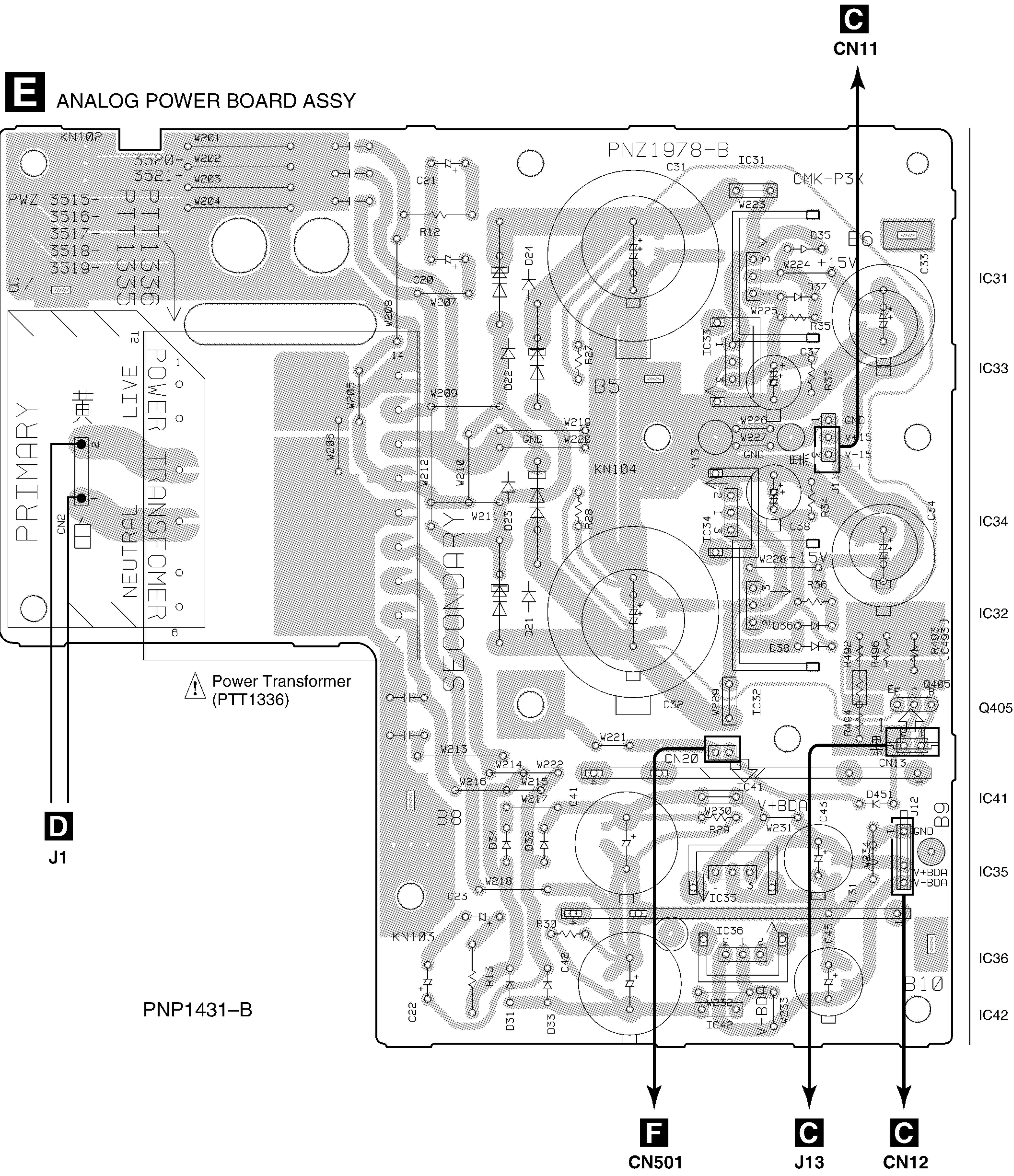


PNP1431-B

4.5 ANALOG POWER BOARD ASSY

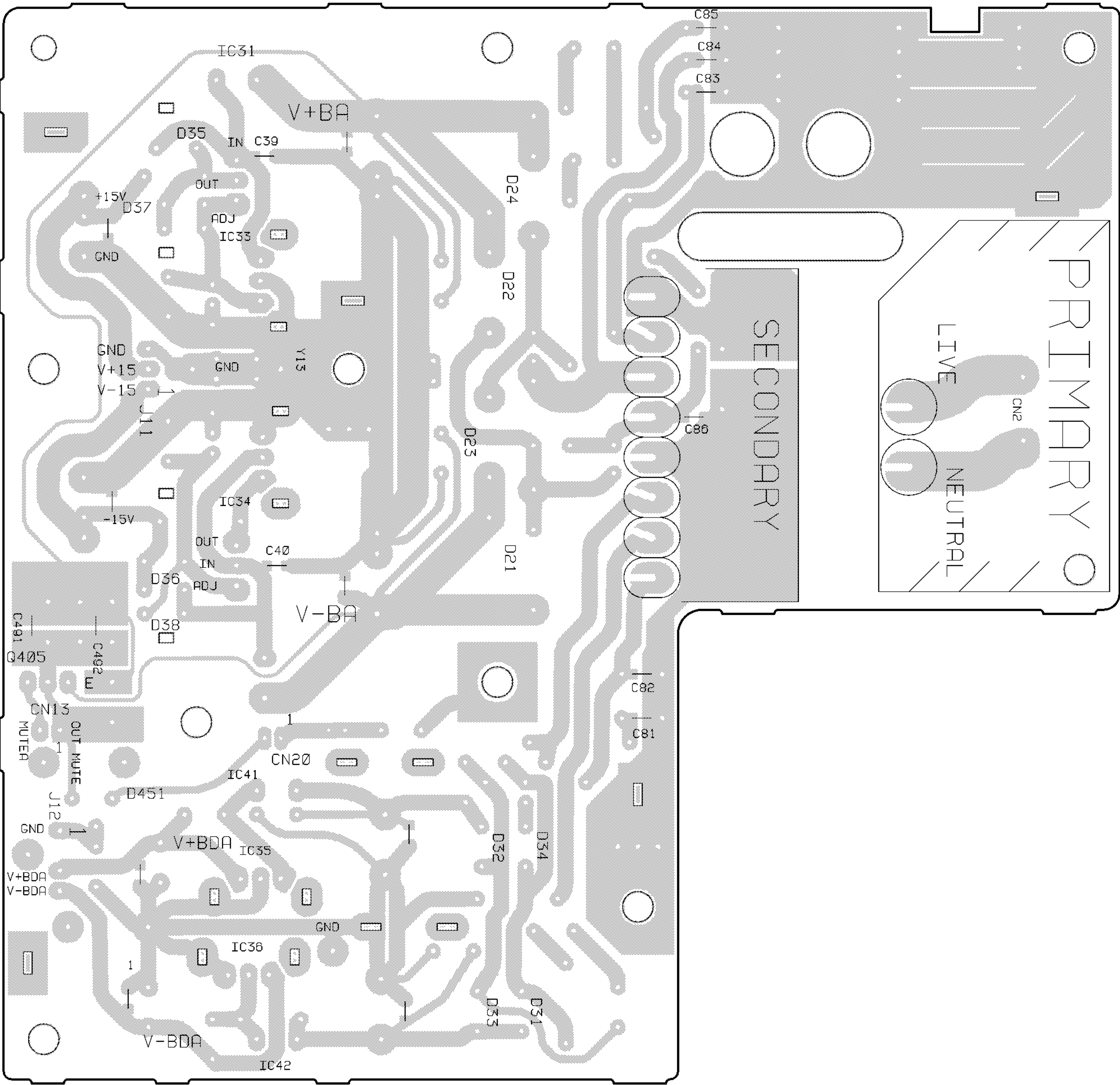
SIDE A

E ANALOG POWER BOARD ASSY

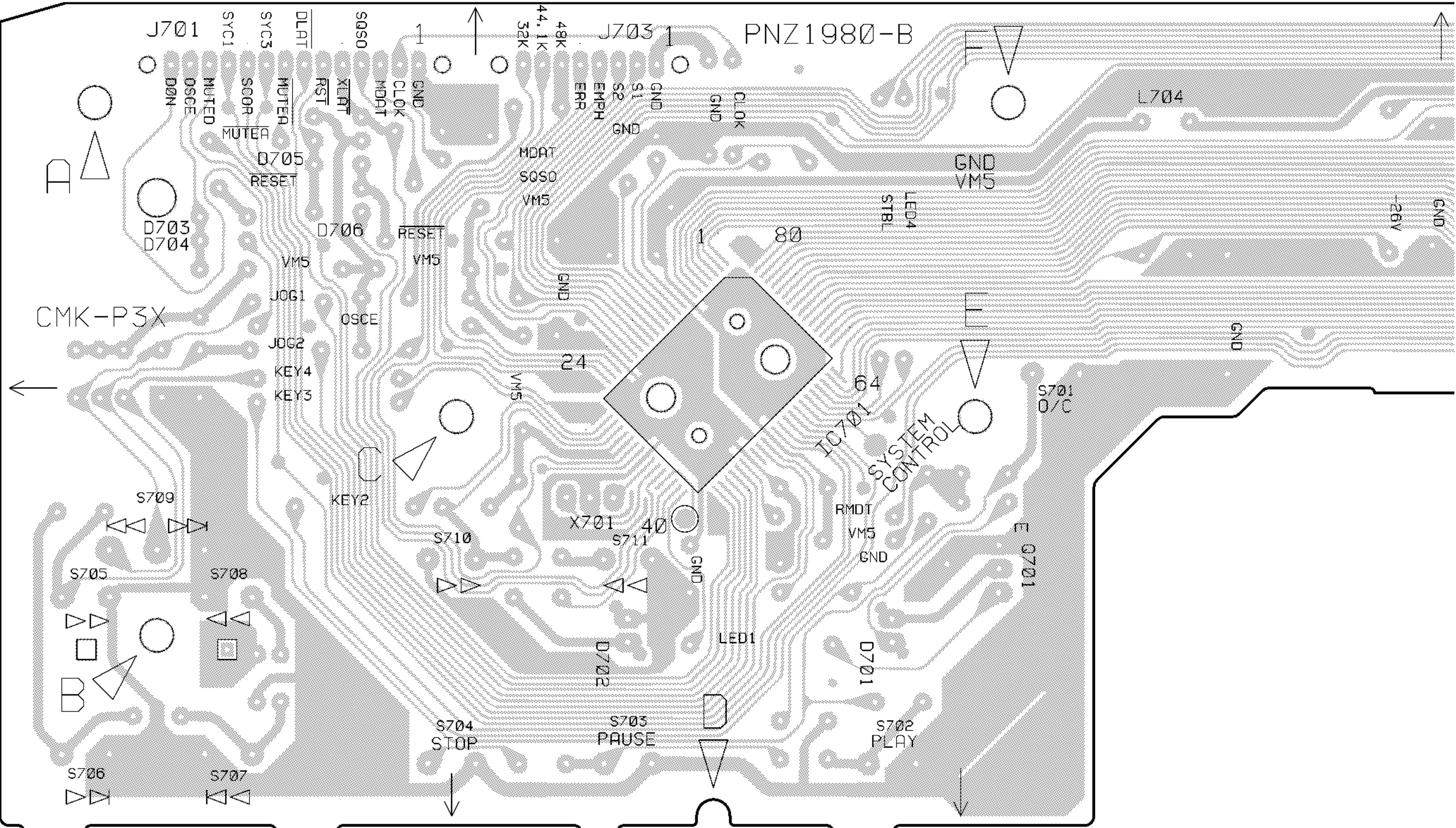
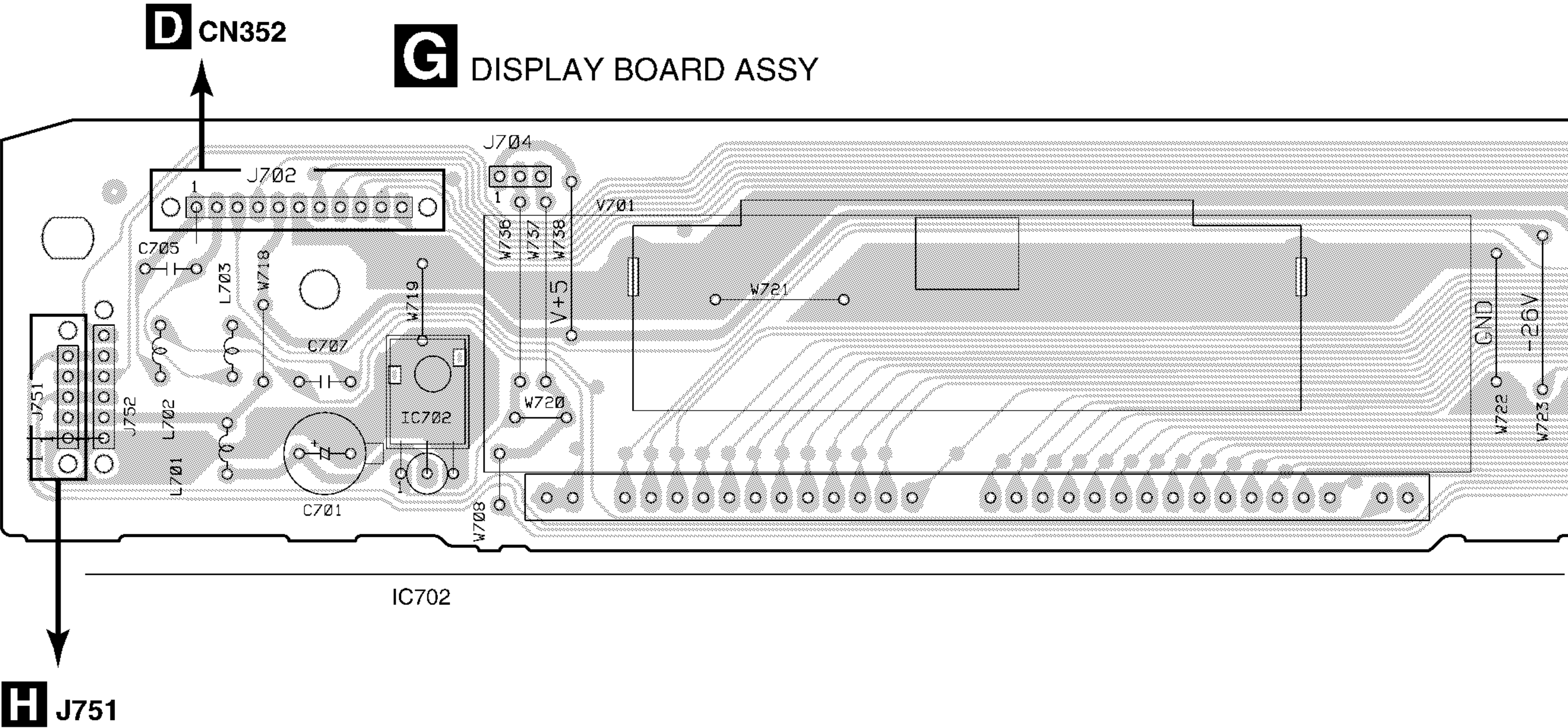


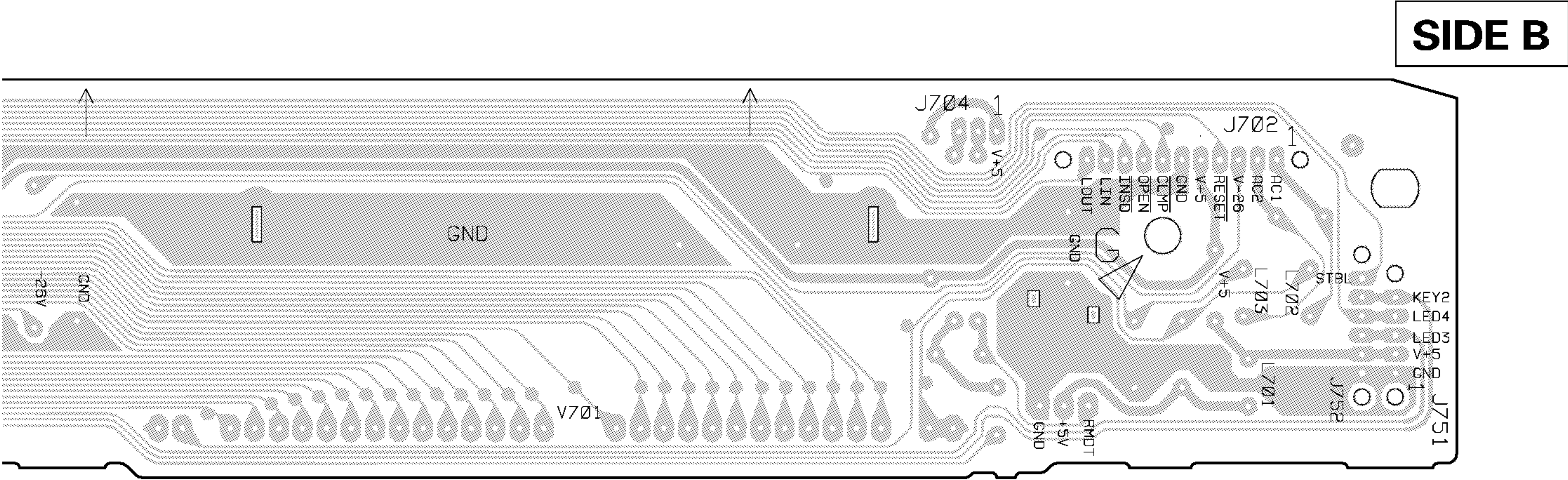
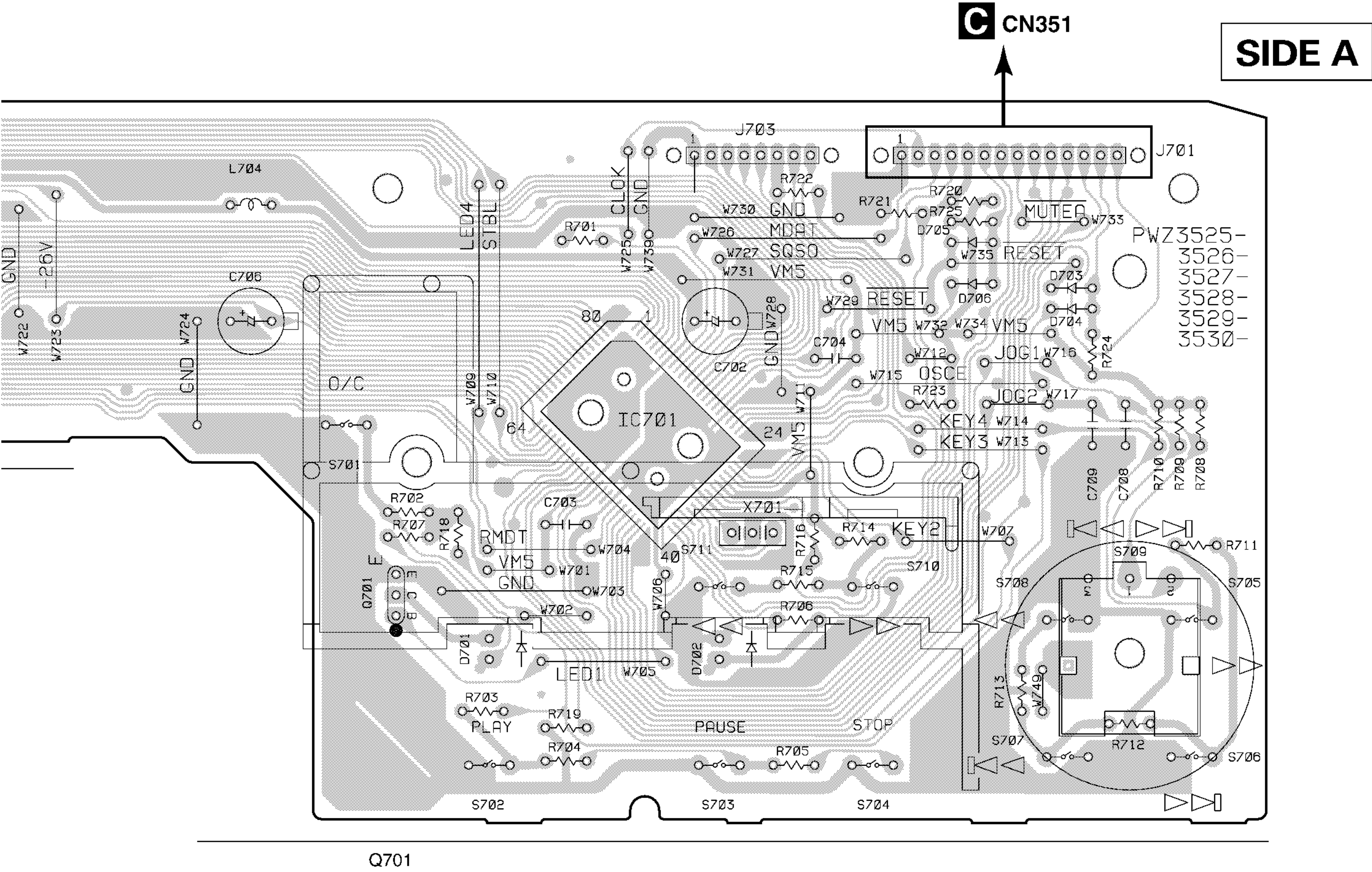
SIDE B

E ANALOG POWER BOARD ASSY



4.6 DISPLAY BOARD ASSY





PNP1432-B

5. PCB PARTS LIST

NOTES :

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

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

560 Ω → 56 × 10¹ → 561 RD1/4PU    J

47k Ω → 47 × 10³ → 473 RD1/4PU    J

0.5 Ω → R50 RN2H    K

1 Ω → 1R0 RS1P    K

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

5.62k Ω → 562 × 10⁻¹ → 5621 RN1/4PC     F

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
------	-----	-------------	-----------	------	-----	-------------	-----------

LIST OF PCB ASSEMBLIES

NSP	MOTHER BOARD ASSY	PWM2170
	└ MAIN BOARD ASSY	PWZ3500
	└ SERVO POWER BOARD ASSY	PWZ3509
	└ ANALOG POWER BOARD ASSY	PWZ3516
NSP	SUB BOARD ASSY	PWX1520
	└ DISPLAY BOARD ASSY	PWZ3526
	└ FUNCTION BOARD ASSY	PWZ3532
	└ PHONE BOARD ASSY	PWZ3538
NSP	LOADING MECHANISM ASSY TT	PWX1598
NSP	└ TRAY ASSY TT	PXA1599
NSP	└ SERVO MECHANISM ASSY TT	PXA1600
	└└ MECHANISM BOARD ASSY	PWX1192
	└└ CONNECTION BOARD ASSY	PWX1525

 MAIN BOARD ASSY

SEMICONDUCTORS

	IC151	CXA1372BQ
	IC301	CXD2507AQ
	IC61	LM317T
	IC44	LM337T
	IC403, IC404	NJM2114D-D
	IC302	NJM4565M
	IC43, IC45, IC60	NJM7805FA
	IC401, IC402	PCM1702P-J
	IC341	PD0236AD
	IC342	PD7009B
	IC303	TC74AC00F
	IC331	TC74HC00AF
	Q391	2SC1740S
	Q403, Q404	2SC3068
	D497, D498	1SS254
	D346–D349, D395–D397	1SS355
	D41, D42	1SS355
	D218	MTZJ6.8B

COILS AND FILTERS

	L397 (10 μH)	LAU100J
	L395, L396	LAU1R0J
	L321, L332	LFA151J
	L301, L302, L305	LFA1R0J
	L334 (Coil)	PTL1003
	L352 (Ferrite beads)	PTH1016
	L303, L304 (0.15 mH)	RTF1068
	L310, L401–L404 (Noise filter)	RTF1167

CAPACITORS

C63 (10 μF/25V)	ACH7029
C325	CCSQCH101J50
C324	CCSQCH470J50
C443–C446	CEGA331M50
C335	CEYA470M50
C152 (220 μF/25V)	PCH1128
C160, C162	CEZA4R7M50
C133, C309	CEZAR47M50
C497, C498	CFTXA103J50
C346 (47 μF/10V)	RCH1139
C399	CGCYX103K25
C349	CKSQYB102K50
C164, C167, C169	CKSQYB103K50
C191, C192, C308, C311	CKSQYB103K50
C317–C318, C344, C347	CKSQYB103K50
C47–C49, C66	CKSQYB103K50
C157–C159, C161, C163, C321	CKSQYB104K25
C334, C336, C342, C65	CKSQYB104K25
C306	CKSQYB152K50
C171	CKSQYB182K50
C315	CKSQYB221K50
C218	CKSQYB272K50
C156, C168, C170	CKSQYB333K50
C172	CKSQYB472K50
C307, C323, C339	CKSQYB473K50
C155	CKSQYB561K50
C437, C438	CQMZA471J50
C435, C436	CQMZA562J50
C441, C442	CQMXA102J2A
C432, C433 (100 μF/50V)	PCH1088
C345, C404, C60 (1000 μF/16V)	PCH1122
C131, C200, C201, C301, C303 (220 μF/25V)	PCH1128
C322, C333 (220 μF/25V)	RCE1032
C429, C430 (220pF/50V)	
C132, C29, C302, C310, C341 (47 μF/10V)	RCH1139
C348, C403, C405, C406 (47 μF/10V)	RCH1139
C411–C418, C423–C428, C68 (47 μF/10V)	RCH1139

RESISTORS

R497, R498	RD1/4PU102J
R44, R62	RD1/4PU221J
R451, R452	RD1/4PU223J
R344	RD1/4PU331J
R42, R63	RD1/4PU681J

Mark	No.	Description	Parts No.
	R37–R40 R429, R430 R447, R448 R437–R440 R443, R444		RDR1/2PM101J RDR1/2PM302J RDR1/2PM471J RDR1/4PM122J RDR1/4PM273J
	VR151, VR152 (22 kΩ) Other Resistors		RCP1046 RS1/10S□□□J

OTHERS

	CN21 CN203 CN351 CN11 CN12	3P JUMPER CONNECTOR 9P JUMPER CONNECTOR 14PJUMPER CONNECTOR 2P TOP POST 3P TOP POST	52147-0310 52147-0910 52147-1410 B2B-EH B3B-EH
	CN401 JA301 J203 JA331 JA402	CONNECTOR POST OPTICAL LINK OUT CONNECTOR ASSY 6P 1P PIN JACK 1P PIN JACK	B3B-PH-K-S GP1F32T PDE1286 PKB1028 PKB1030
	JA401 JA393 X301 CN201 J13	1P PIN JACK MINI JACK (16.9 MHz) CONNECTOR 6P CONNECTOR ASSY 2P	PKB1031 PKN1005 PSS1022 RKP-533 RKP1763
		PCB BINDER KN107–KN110 EARTH METAL FITTING J401 EARTH LEAD	VEF1040 VNF1084 PDF1169

D SERVO POWER BOARD ASSY

SEMICONDUCTORS

⚠	IC23, IC24	ICP-N10
⚠	IC201	LA6517
⚠	IC202	LA6520
⚠	IC21	PQ05RR12
⚠	D54	MTZJ18B
⚠	D11–D14, D52	S5688G

SWITCHES AND RELAYS

⚠	S1 POWER SWITCH	RSA1004
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COILS AND FILTERS

	L11 (Ferrite beads)	PTH1014
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CAPACITORS

⚠	C1 (10000 pF/250V) C18, C19, C57, C58 C28 C11–C16, C205, C210, C215 C219, C220	ACG7020 CEZA1R0M50 CFTYA104J50 CKSQYB103K50 CKSQYB103K50
	C59 C56 C226 C225 C25, C26 (4700 μF/16V)	CFTXA104J50 CQMXA104J2A CKSQYB122K50 CKSQYB392K50 PCH1119
	C27 (1000 μF/16) C44, C46, C52, C53, C64 (100 μF/50V) C211 (47 μF/10)	PCH1122 PCH1126 RCH1139

Mark	No.	Description	Parts No.
RESISTORS			
	R15 R22, R51 R52–R54 R10, R11 Other Resistors		RD1/2PM3R3J RD1/4PU103J RD1/4PU152J RD1/4PU8R2J RS1/10S□□□J

OTHERS

	CN207 CN204	MT 4P CONNECTOR MT 5P CONNECTOR 3P CABLE HOLDER 9P CABLE HOLDER	173981-4 173981-5 51048-0300 51048-0900
	CN30	3P JUMPER CONNECTOR	52147-0310
⚠	CN352 CN1 CN208 J202 J201	11PJUMPER CONNECTOR AC INLET KR CONNECTOR WIRE ASSY 3P WIRE ASSY 9P	52147-1110 AKP7005 B6B-PH-K-S D20PDY0325E D20PDY0925E
⚠	J1	CONNECTOR ASSY 2P CAPACITOR COVER PCB BINDER	PDE1280 REC-150 VEF1008
	KN105, KN106	EARTH METAL FITTING	VNF1084

E ANALOG POWER BOARD ASSY

SEMICONDUCTORS

⚠	IC33	NJM7815FA
⚠	IC34	NJM7915FA
	Q405	DTC124ES
⚠	D21–D24 D451	10DF2FA9 1SS254
⚠	D31–D34	S5688G

COILS AND FILTERS

	L31 (Noise filter)	RTF1167
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CAPACITORS

	C20–C23 C81–C85 C39, C40 C493 C33, C34 (3300 μF/25V)	CEZA1R0M50 CKSQYB103K50 CKSQYB104K25 CFTXA104J50 PCH1125
	C41, C42 (4700 μF/35V) C31, C32 (4700 μF/50V)	RCH1089 RCH1104

RESISTORS

	R492–R494, R496 Other Resistors	RDR1/2PM682J RD1/4PU□□□J
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OTHERS

	CN13 CN20 CN2 J12 J11	2P TOP POST CONNECTOR POST 2P VH CONNECTOR CONNECTOR ASSY 3P CONNECTOR ASSY 2P	B2B-EH B2B-PH-K-S B2P3-VH RKP1762 RKP1763
	KN102–KN104	EARTH METAL FITTING	VNF1084

PD-S06

Mark No.	Description	Parts No.
G DISPLAY BOARD ASSY		
SEMICONDUCTORS		
IC701		PD4899B
Q701		DTC124ES
D703–D706		1SS254
D702		SLR-342DCT31
D701		SLR-342MCT31
COILS AND FILTERS		
L701–L704		LFA1R0J
SWITCHES AND RELAYS		
S709		ASX7008
S701–S704, S710, S711		VSG1009
CAPACITORS		
C706		CEAL220M35
C701		CEAL470M16
C703, C705, C707–C709		CFTXA104J50
C704		CGCYX103K25
C702 (47 µF/10V)		RCH1139
RESISTORS		
All Resistors		RD1/4PU□□□□J
OTHERS		
	5P CABLE HOLDER	51048-0500
	11P CABLE HOLDER	51048-1100
	14P CABLE HOLDER	51048-1400
	REMOTE RECEIVER UNIT	GP1U27X
V701	FL INDICATOR TUBE	PEL1094
X701	(4.19 MHz)	VSS1028
J701	WIRE ASSY 14P	D20PDY1420E
J702	WIRE ASSY 11P	D20PDY1130G

H FUNCTION BOARD ASSY		
SEMICONDUCTORS		
Q751, Q752		DTC124ES
D752		SLR-342DCT31
D751		SLR-342VCT31
SWITCHES AND RELAYS		
S751–S754		VSG1009
RESISTORS		
All Resistors		RD1/4PU□□□□J
OTHERS		
	5P CABLE HOLDER	51048-0500

F PHONE BOARD ASSY		
SEMICONDUCTORS		
IC501		M5216P
Q501, Q502		2SC3068
COILS AND FILTERS		
L501, L502		LAU1R0J

Mark No.	Description	Parts No.
CAPACITORS		
C513, C514		CEZA2R2M50
C507, C508		CGCYX103K25
RESISTORS		
VR501 (20 kΩ–B)		RCV1043
Other Resistors		RD1/4PU□□□□J
OTHERS		
	3P CABLE HOLDER	51048-0300
CN501	5P TOP POST	B5B-EH
JA501	JACK	RKN1002

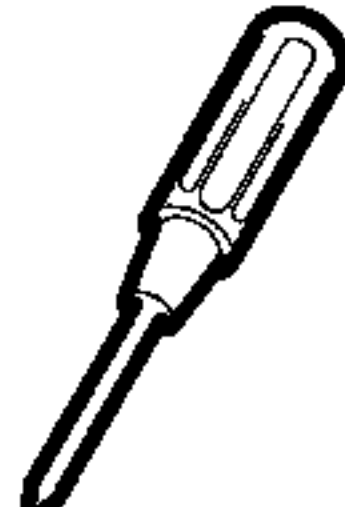
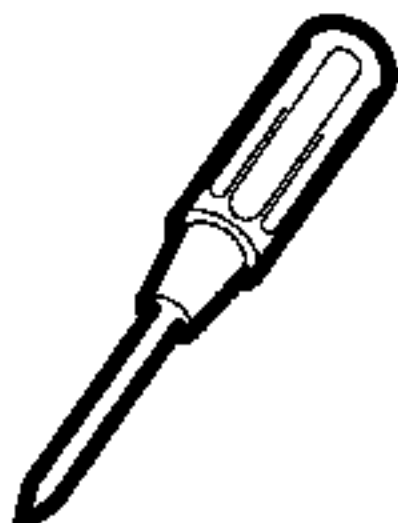
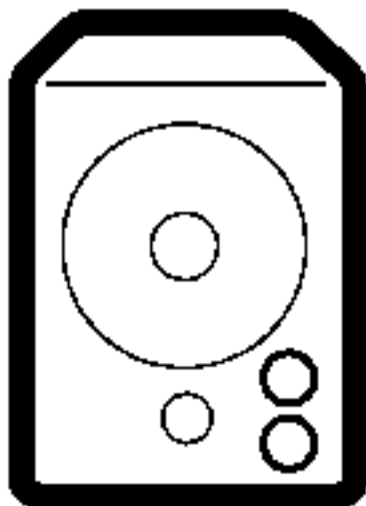
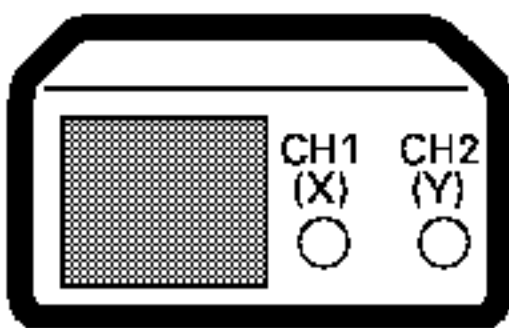
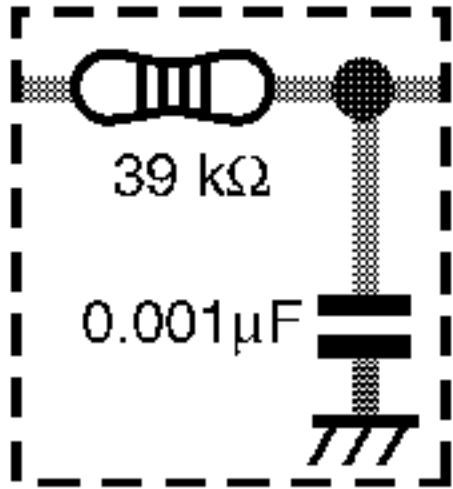
B MECHANISM BOARD ASSY		
SWITCHES AND RELAYS		
S610		DSG1016
OTHERS		
CN610	MT CONNECTOR 4P	173979-4

A CONNECTION BOARD ASSY		
OTHERS		
CN1001	FPC CONNECTOR 12P	12FMZ-AST
CN1002	6P SIDE POST	PKN1017
	PC BOARD	PNP1436
CN1003	6P SIDE POST	BS6P-SHF-1AA

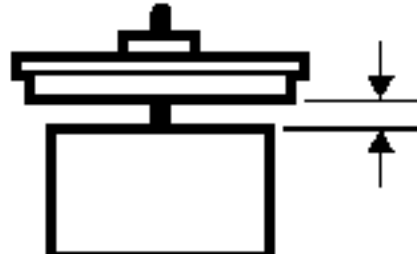
6. ADJUSTMENT

6.1 PREPARATIONS (準備)

6.1.1 Jigs and Measuring Instruments (使用測定器/治工具類)

 CD TEST DISC (YEDS-7)	 ⊖ Precise screwdriver	 ⊖ screwdriver (small)	 ⊕ screwdriver (medium)
 ⊕ screwdriver (large)	 Low-frequency oscillator	 Dual-trace oscilloscope (10 : 1 probe)	 Low pass filter (39 kΩ + 0.001μF)

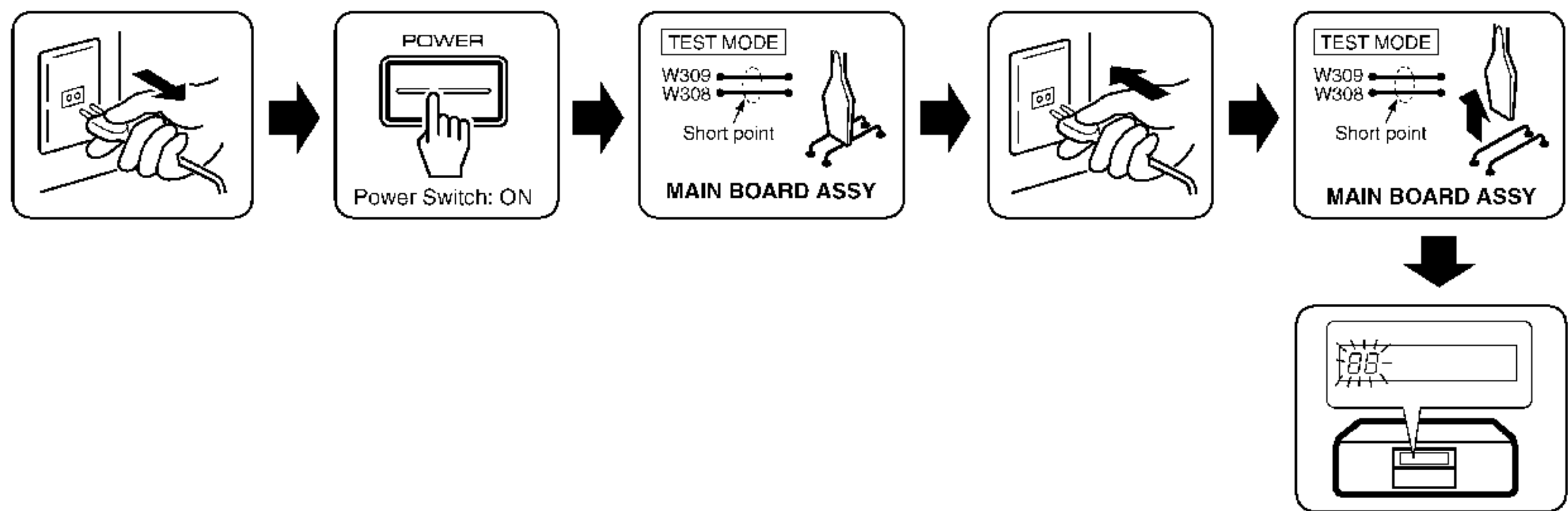
6.1.2 Necessary Adjustment Points (調整に必要な項目)

When (このような時)	Adjustment points
Exchange PICKUP (ピックアップを交換した時)	1.2.3.4.5.6. → Page 39～41
Exchange MAIN BOARD ASSY (MAIN BOARD ASSYを交換した時)	1.2.3.4.5.6. → Page 39～41
Exchange SERVO MECH ASSY (サーボメカASSYを交換した時)	1.2.3.4.5.6. → Page 39～41
Exchange SPINDLE MOTOR (スピンドルモーターを交換した時)	 ADJ → Page 9

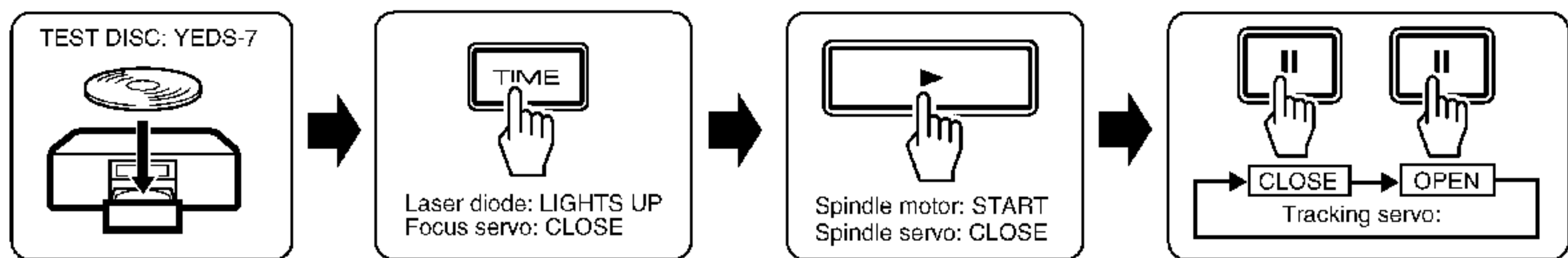
6.2 ADJUSTMENT (調整)

6.2.1 How to Start/Cancel Test Mode (テストモードの設定／解除)

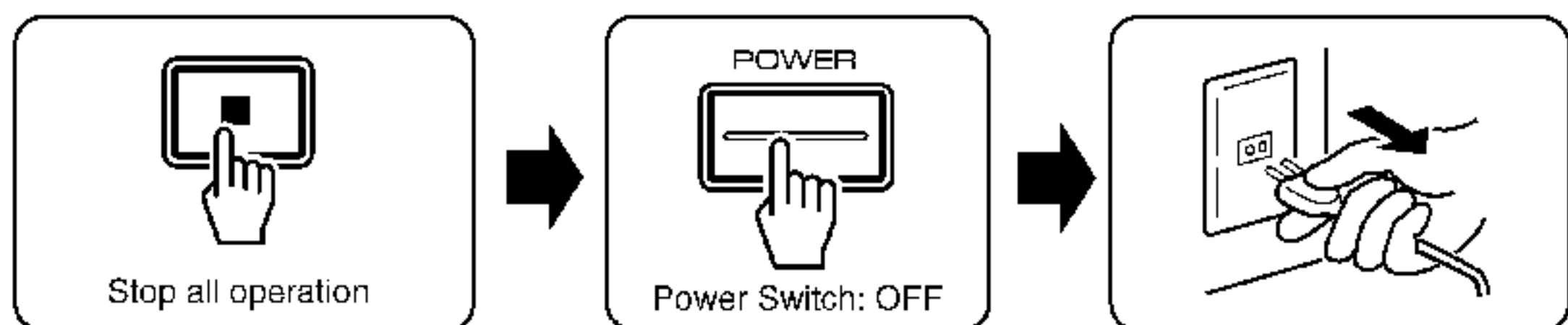
TEST MODE : ON



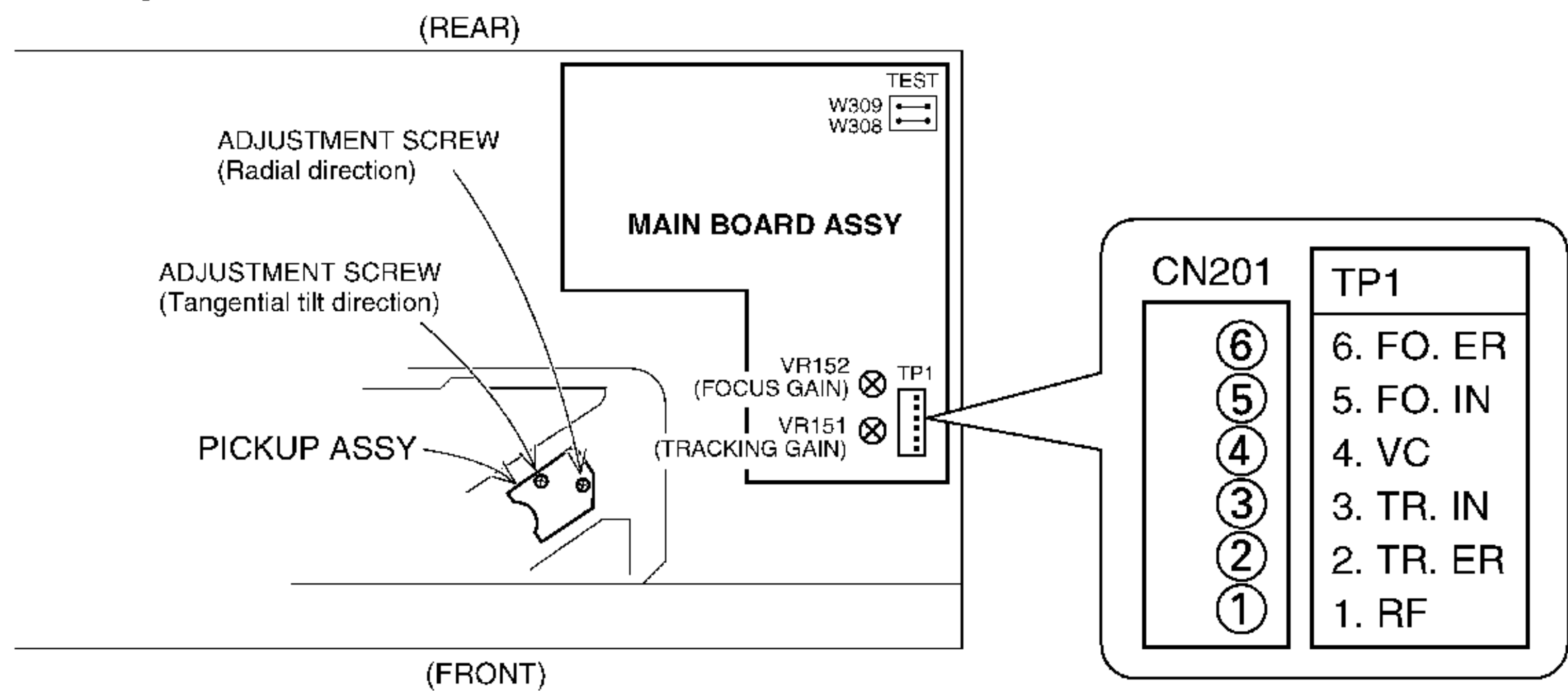
TEST MODE : PLAY



TEST MODE : STOP → CANCEL



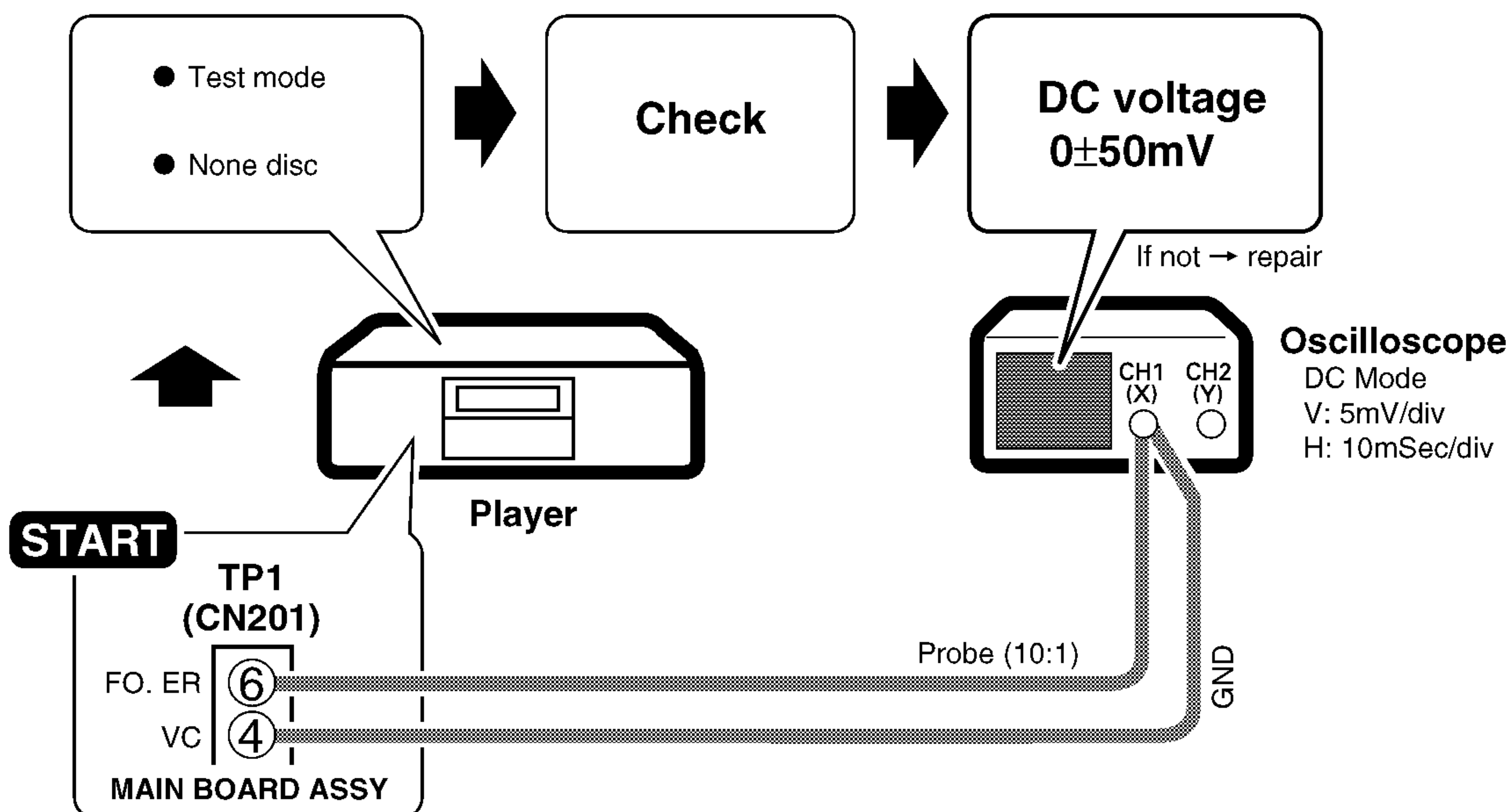
6.2.2 Adjustment Location (テストポイントと調整用VRの位置)



6.2.3 Check and Adjustment (確認、調整)

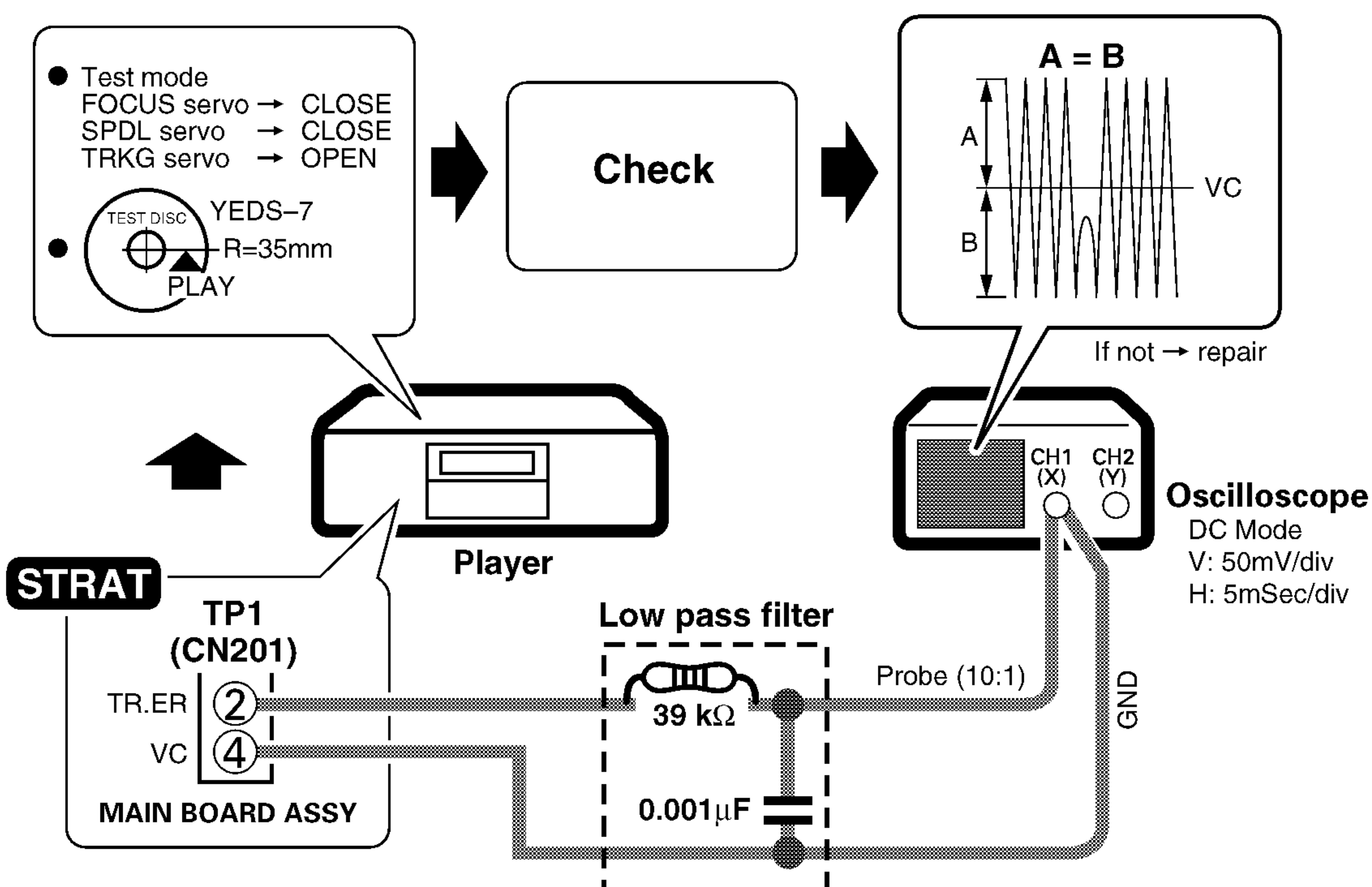
1. Focus Offset Check

(フォーカスオフセット確認)



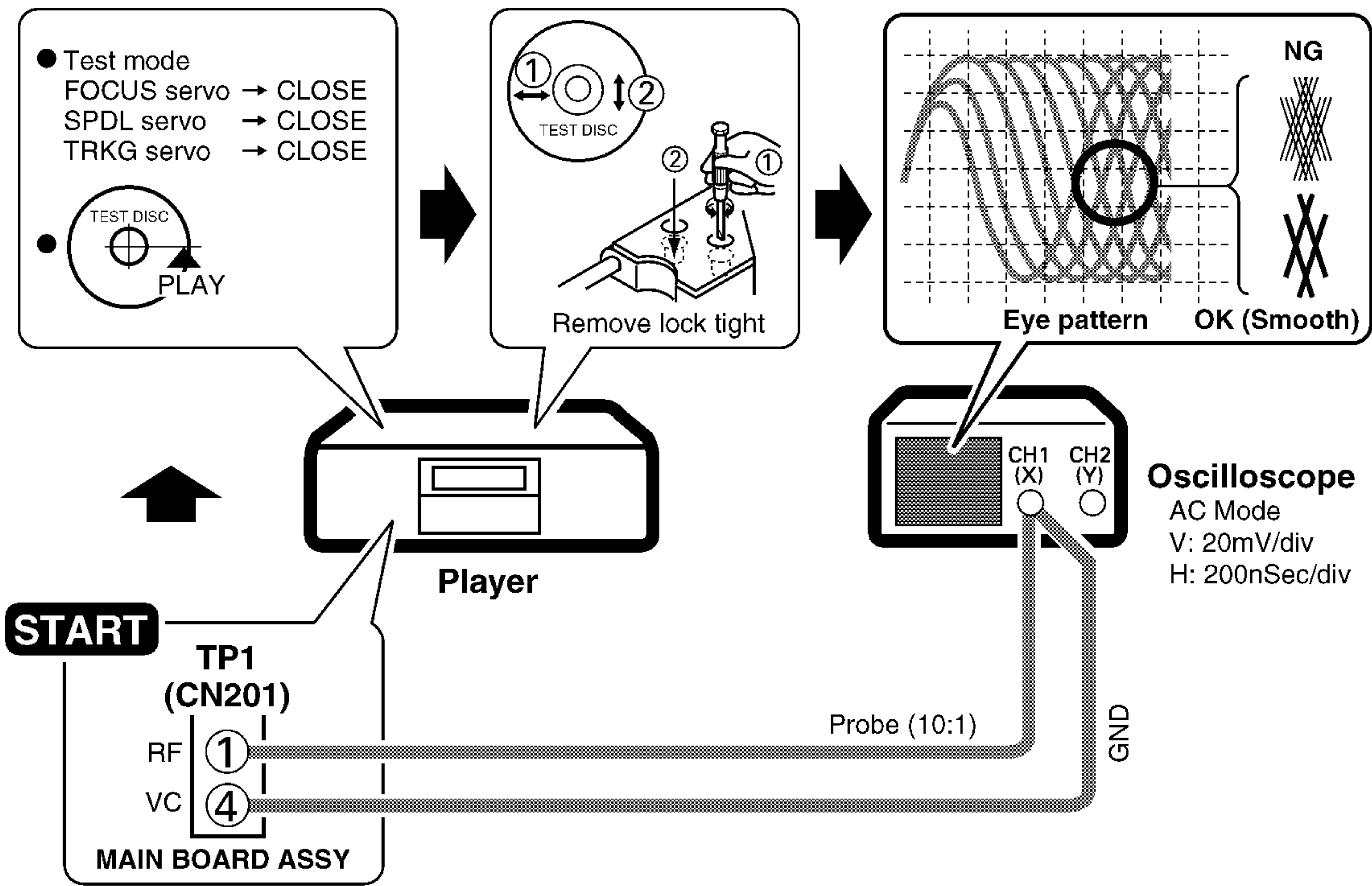
2. Tracking Error Balance Check

(トラッキングエラーバランス確認)



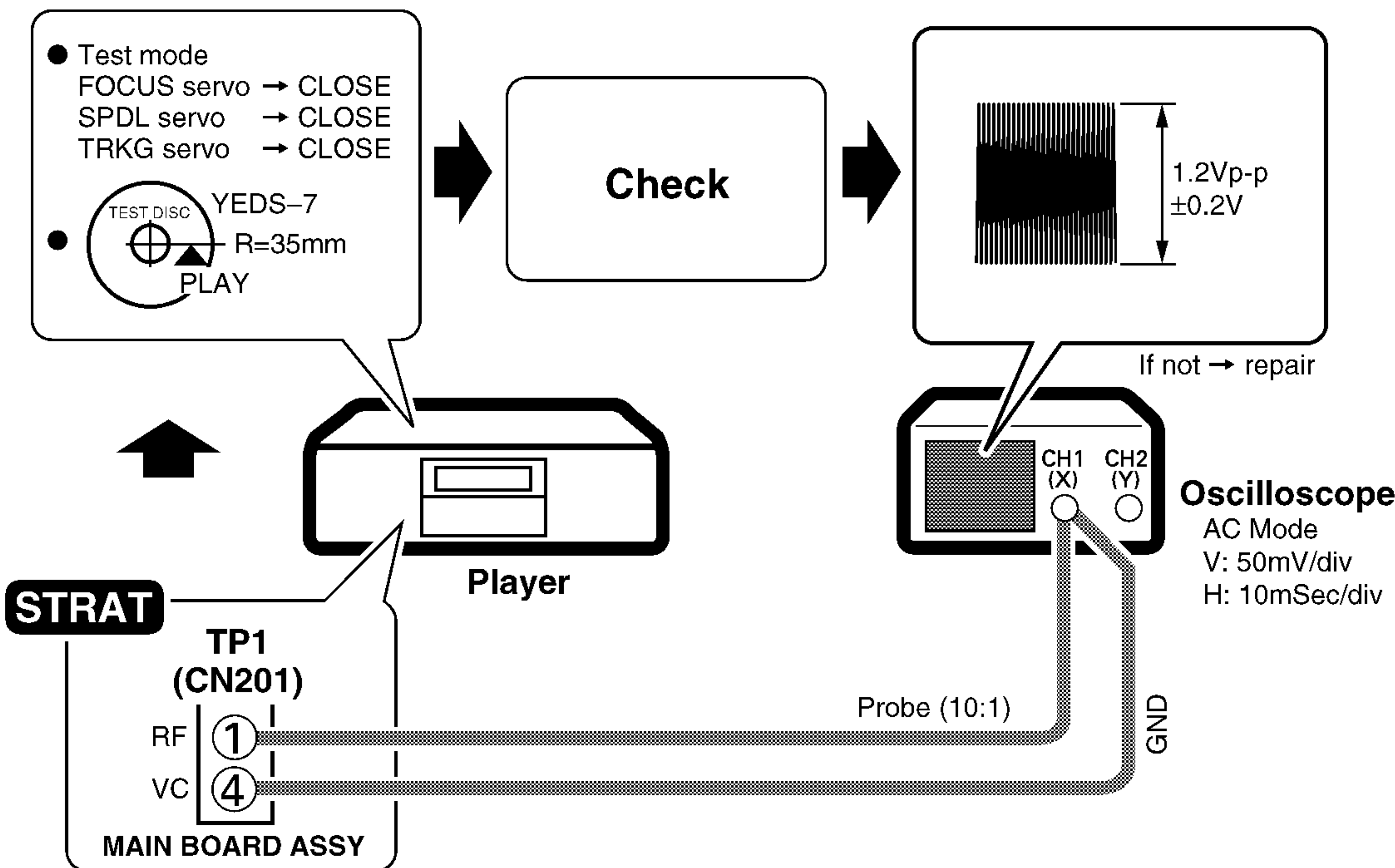
3. Pickup ①Radial/ ②Tangential Direction Tilt Adjustment

(ピックアップ①ラジアル方向②タンジェンシャル方向の傾き調整)



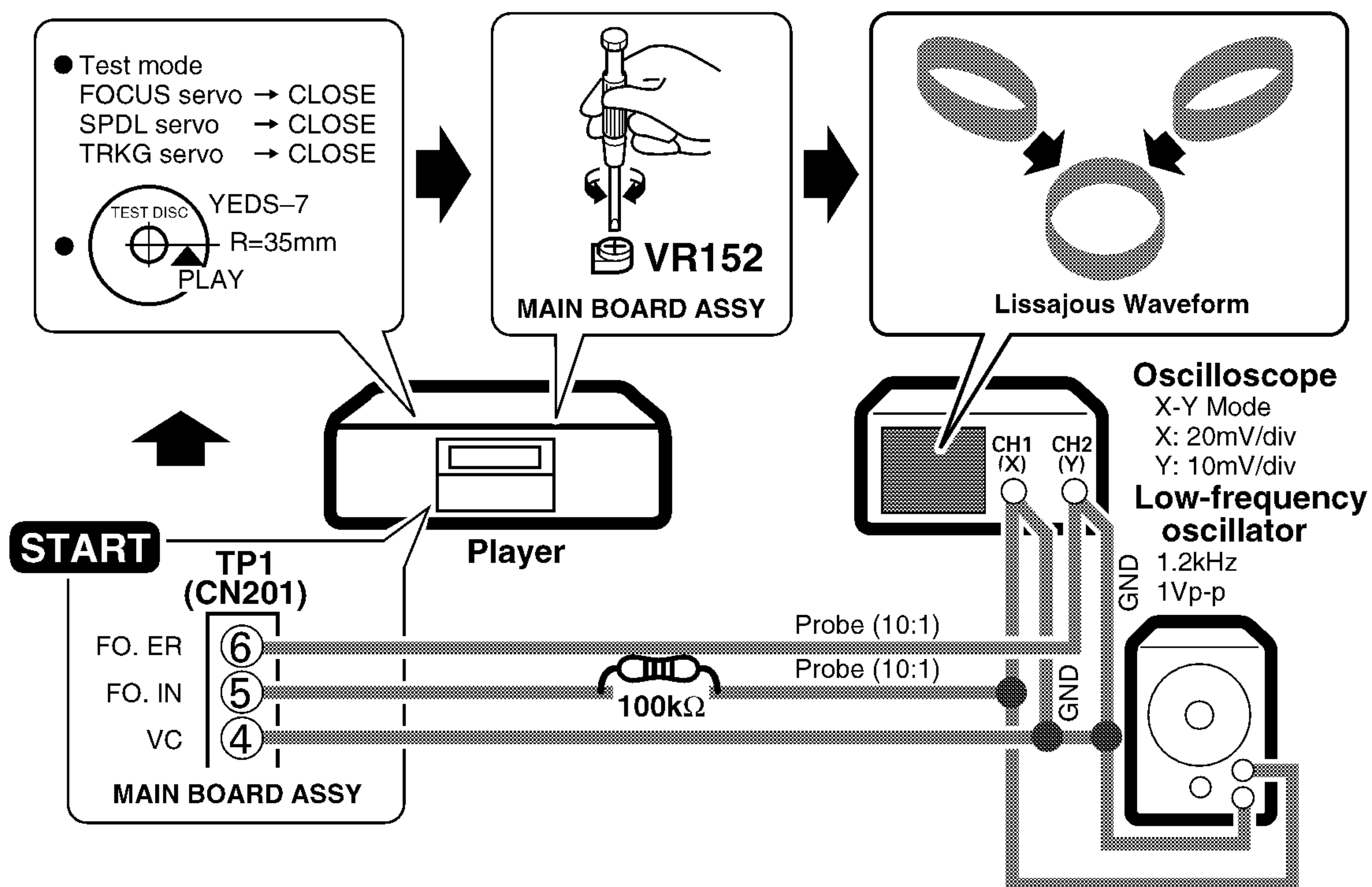
4. RF Level Check

(RFレベル確認)



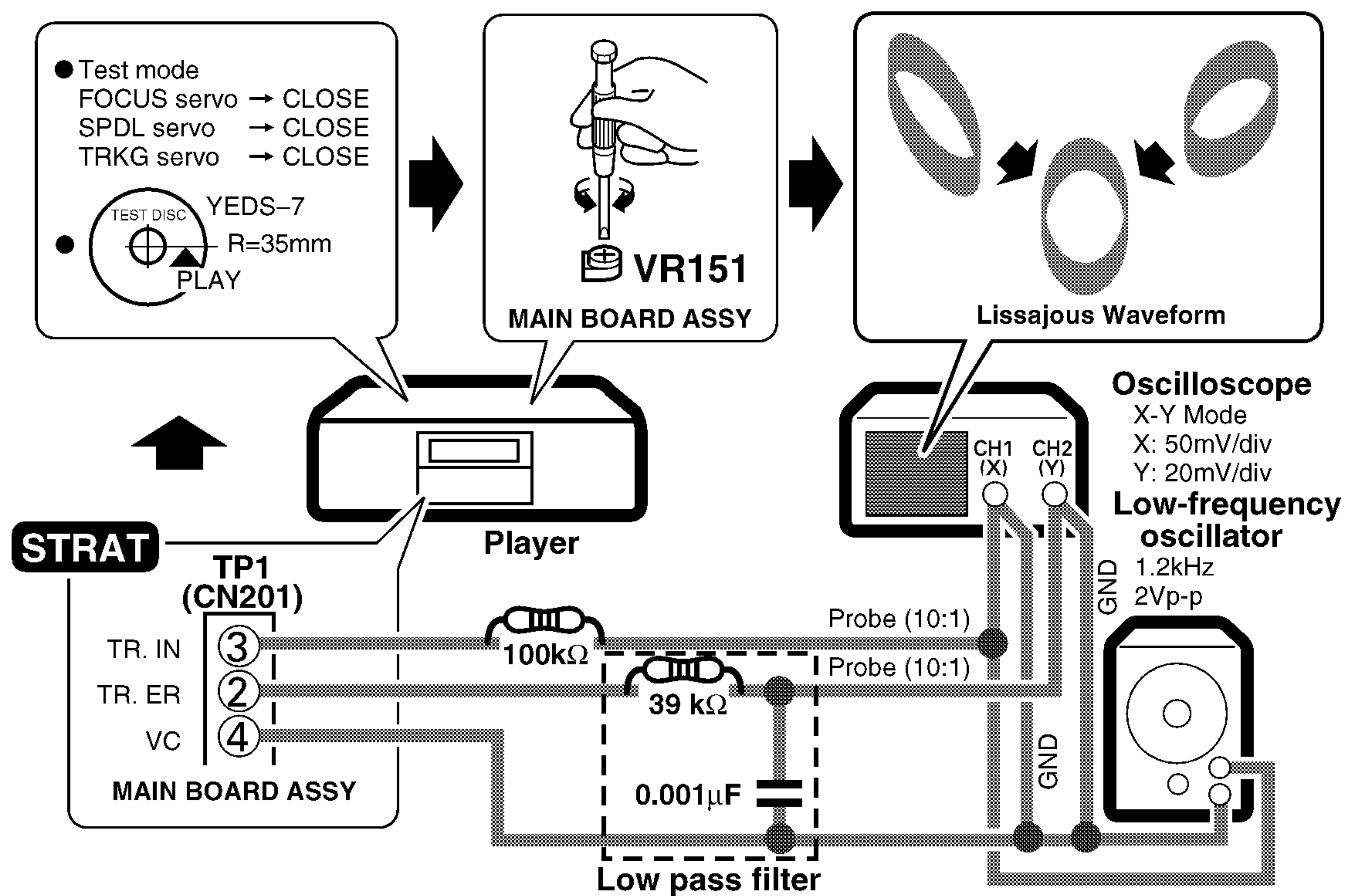
5. Focus Servo Loop Gain Adjustment

(フォーカスサーボループゲイン調整)



6. Tracking Servo Loop Gain Adjustment

(トラッキングサーボループゲイン調整)



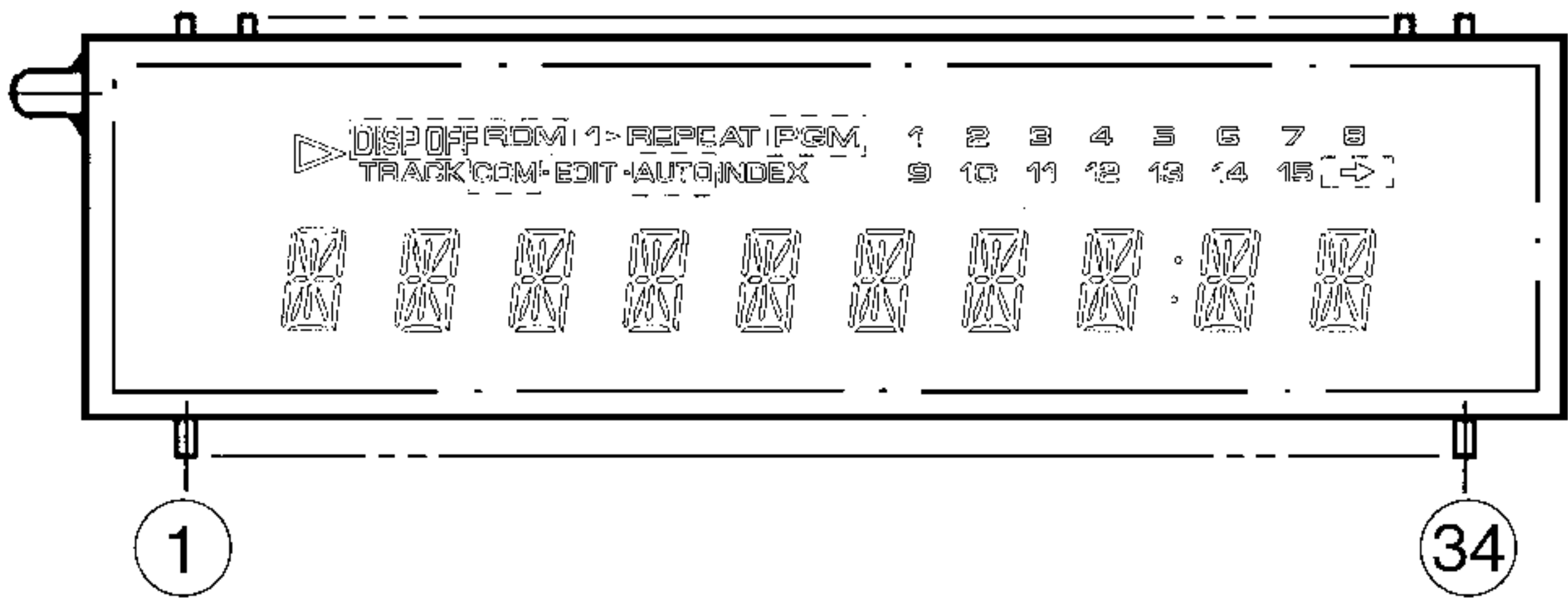
7. GENERAL INFORMATION

7.1 DISPLAY

■ PEL1094 (V701: DISPLAY BOARD ASSY)

■ FL INDICATOR TUBE

● Pin Assignment

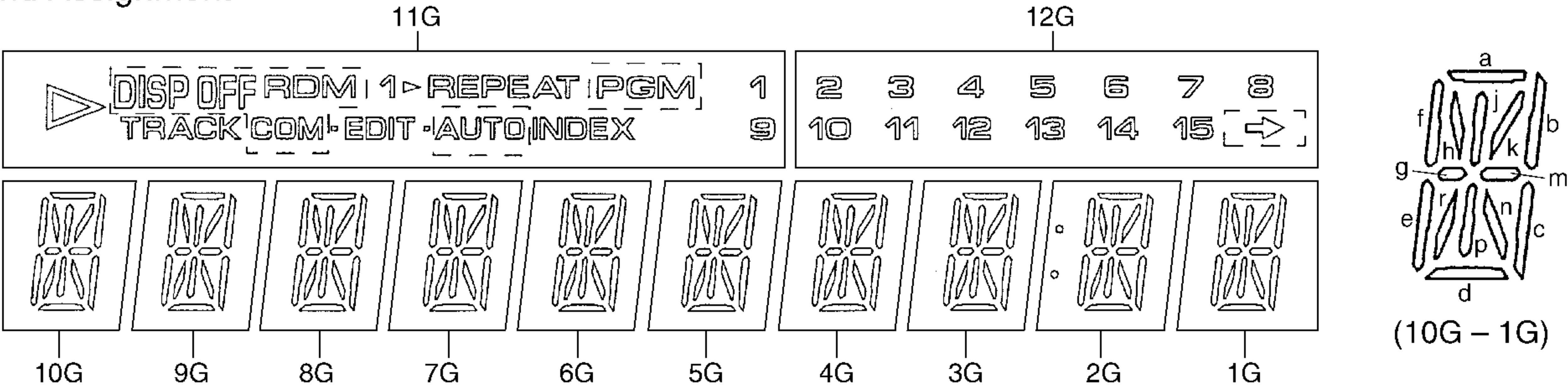


NOTE 1) F1, F2 -- Filament
2) NP ----- No pin
3) NX ----- No extend pin
4) DL ----- Datum Line
5) 1G~12G -- Grid

● Pin Connection

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
CONNECTION	F	F	N	1	1	1										N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	F	F
	1	1	P	2	1	0	9	8	7	6	5	4	3	2	1	X	X	1	2	3	4	5	6	7	8	9	0	1	2	3	4	P	2	2

● Grid Assignment



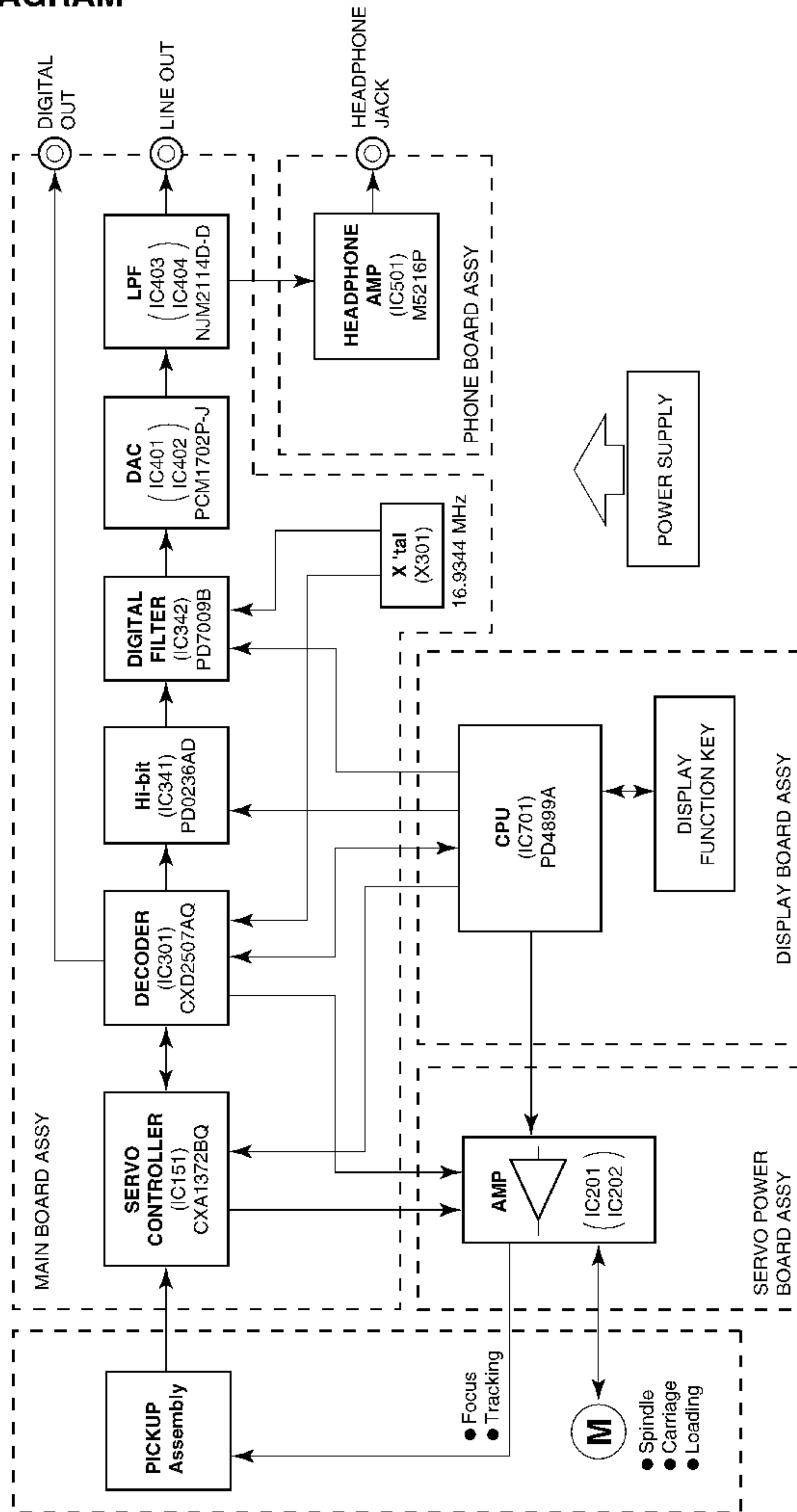
COLOR OF ILLUMINATION
..... Orange
Other..... Green

● Anode Connection

	12G	11G	10G-3G	2G	1G
P1	2	1	r	r	r
P2	3	9	h	h	h
P3	4	▷	a	a	a
P4	5	DISP OFF	b	b	b
P5	6	RCM	c	c	c
P6	7	REPEAT	d	d	d
P7	8	1 ▷	e	e	e

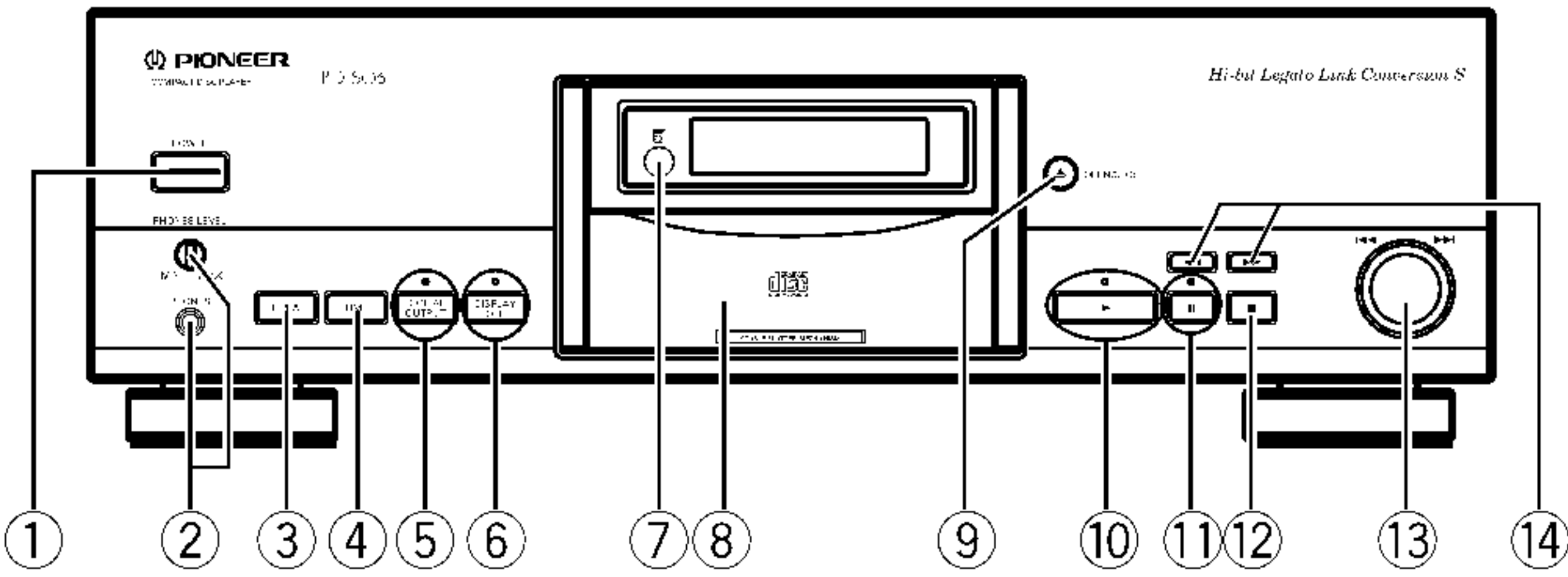
	12G	11G	10G-3G	2G	1G
P8	10	—	f	f	f
P9	11	PGM	g	g	g
P10	12	TRACK	m	m	m
P11	13	COM	j, p	j, p	j, p
P12	14	-EDIT-	—	col	—
P13	15	AUTO	k	k	k
P14	⇒	INDEX	n	n	n

7.2 BLOCK DIAGRAM



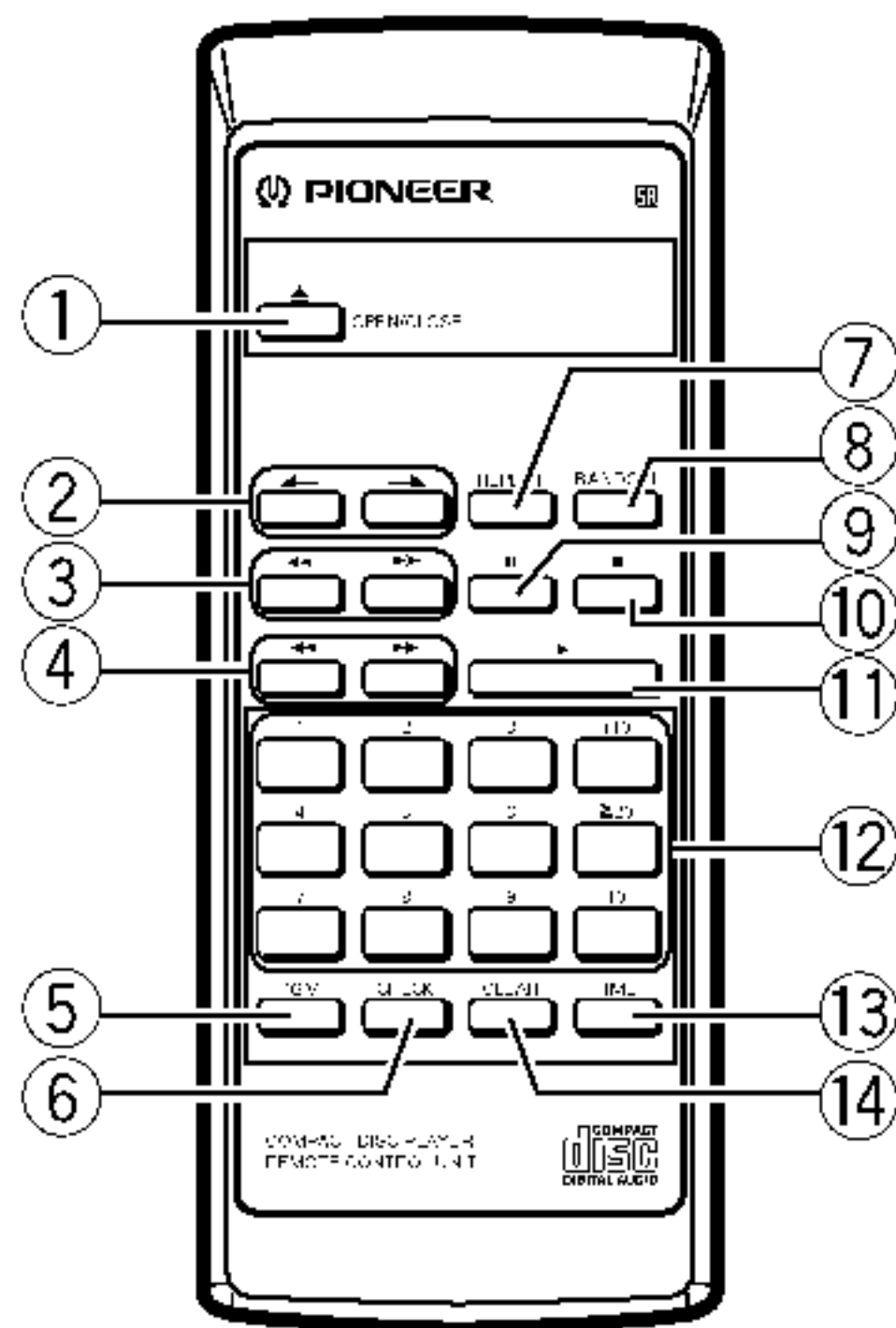
8. PANEL FACILITIES AND SPECIFICATIONS

■ PANEL FACILITIES



FRONT PANEL

- ① **POWER** switch
- ② **PHONES** jack and **PHONES LEVEL** knob
- ③ **REPEAT** button
- ④ **TIME** button
- ⑤ **DIGITAL OUTPUT** button and indicator
- ⑥ **DISPLAY OFF** button and indicator
- ⑦ **Remote sensor**
Receives the signal from the remote control unit.
- ⑧ **Disc tray**
- ⑨ **OPEN/CLOSE** button (▲)
- ⑩ **Play** button (▶) and indicator
- ⑪ **Pause** button (⏸) and indicator
- ⑫ **Stop** button (■)
- ⑬ **Track search** knob (◀◀/▶▶)
- ⑭ **Manual search** buttons (◀◀/▶▶)



REMOTE CONTROL UNIT

Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.

- ① **OPEN/CLOSE** button
- ② **Index search** buttons (←/→)
- ③ **Manual search** buttons (◀◀/▶▶)
- ④ **Track search** buttons (◀◀/▶▶)
- ⑤ **PGM** (program) button
- ⑥ **CHECK** button
- ⑦ **REPEAT** button
- ⑧ **RANDOM** button
- ⑨ **Pause** button (⏸)
- ⑩ **Stop** button (■)
- ⑪ **Play** button (▶)
- ⑫ **Track number/Digit** buttons (1 - 10, +10, ≥ 20)
- ⑬ **TIME** button
- ⑭ **CLEAR** button

■ SPECIFICATIONS

1. General

Type Compact disc digital audio system
Power requirements AC 220 - 230 V, 50/60 Hz
Power consumption 19 W
Operating temperature +5°C - +35°C
Weight 10 kg
External dimensions 420 (W) x 374.3 (D) x 128 (H) mm

2. Audio section

Frequency response 2 Hz - 20 kHz
S/N ratio 113 dB or more (EIAJ)
Dynamic range 100 dB or more (EIAJ)
Harmonic distortion 0.0018% or less (EIAJ)
Output voltage 2.0 V
Wow and flutter Limit of measurement
(±0.001% W.PEAK) or less (EIAJ)
Channels 2-channel (stereo)

3. Output terminal

Audio line output jacks
Optical digital output jack
Coaxial digital output jack
Phones output jack
CD-DECK SYNCHRO jack

4. Input terminal

AC inlet jack

5. Accessories

- Remote control unit 1
- AAA/R03 dry cell batteries 2
- Output cable 1
- Power cord 1
- Operating instructions 1

NOTE:

Specifications and design subject to possible modification without notice, due to improvements.