

Pioneer

Service Manual

ORDER NO.
RRV2119

COMPACT DISC PLAYER

PD-S507

● Refer to the service manual **RRV2034** for **PD-S507/MYXK**.

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-S507		
RD	O	AC110-127/220-240V	With the voltage selector
WPW	O	AC220-240V	

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1. SAFETY INFORMATION

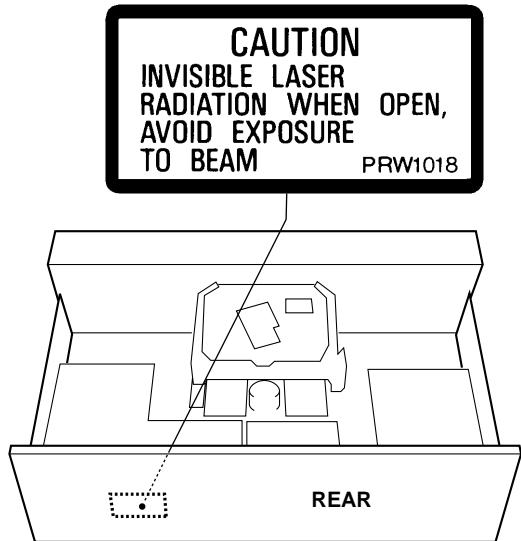
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

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: 7 mw
WAVELENGTH: 780 – 785 nm

LABEL CHECK

WPW type Only



2. CONTRAST OF MISCELLANEOUS PARTS

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

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

• Reference Nos. indicate the pages and Nos. in the service manual for the base model.

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

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

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

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

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

$1 \Omega \rightarrow 1R0$ RS1P 1 R 0 K

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

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

■ CONTRAST TABLE

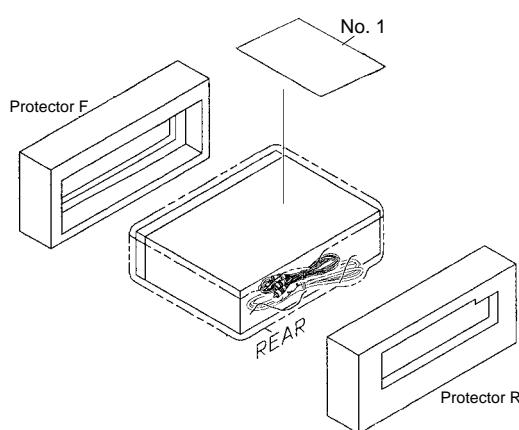
PD-S507/ RD, WPW and MYXK are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			MYXK type	RD type	WPW type	
P5-1	NSP	PCB ASSEMBLIES MOTHER BOARD ASSY	PWM2240	PWM2242	PWM2243	
P5-2	⚠	MAIN BOARD ASSY	PWZ3762	PWZ3764	PWZ3765	
P6-1	⚠	POWER BOARD ASSY	PWZ3770	PWZ3771	PWZ3772	
P6-2	NSP	SWITCH BOARD ASSY	PWZ3766	PWZ3767	PWZ3767	
P6-3	NSP	MODE BOARD ASSY	PWZ3768	PWZ3769	PWZ3769	
		HEADPHONE BOARD ASSY	PWZ3773	PWZ3776	PWZ3776	
P3-2		PACKING Protector R	PHA1331	PHA1330	PHA1330	
P3-3		Packing Case	PHG2314	PHG2331	PHG2331	
P3-6		Operating Instructions (English/French/German/Italian/ Dutch/Swedish/Spanish/Portuguese)	PRE1270	Not used	Not used	
P3-6		Operating Instructions (English/Spanish/Chinese)		PRE1271	PRE1271	
P3-8		Remote Control Unit	XWW1001 (CU-PD096)	PWW1140 (CU-PD092)	PWW1140 (CU-PD092)	
P3-12	NSP	Warranty Card	ARY7022	Not used	PRY1002	
	NSP	Caution 220V Card	Not used	ARR7003	Not used	No.1
P5-5	⚠	EXTERIOR AC Power Cord	PDG1043	PDG1013	ADG1123	
P5-6	⚠	Power Transformer	PTT1236	PTT1238	PTT1236	
P5-11	NSP	PCB Spacer	PEB1304	Not used	Not used	
P5-12		Bonnet	PYY1162	PYY1265	PYY1265	
P5-14		Rear Base	PNA2419	PNA2443	PNA2444	
P5-15		Cushion 55	PNM1316	Not used	Not used	
P5-18		Disc Guard	REC1305	PNM1245	PNM1245	
P5-20		Caution Label (HE)	PRW1233	Not used	Not used	
P5-22		Caution Label	VRW1094	Not used	PRW1018	
P6 - 9		Display Window	PAM1759	PAM1764	PAM1764	
P6-15		26P F-F-C / 30V	PDD1142	PDD1141	PDD1141	

Note : • The numbers in the remarks column correspond to the numbers on the exploded diagram. Refer to "EXPLODED VIEWS".

■ EXPLODED VIEWS

- **PACKING SECTION**



■ CONTRAST OF PCB ASSEMBLIES

B MAIN BOARD ASSY

PWZ3764, PWZ3765 and PWZ3762 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		PWZ3762	PWZ3764	PWZ3765	
	C23 C25, C26 C27, C211, C212, C216, C217 C444, C446 C131	CEGA4R7M50 PCH1119 PCH1128 PCH1128 PCH1128	CEAT101M10 PCH1120 CEAT470M16 CEAT470M16 CEAT4R7M50	CEAT101M10 PCH1120 CEAT470M16 CEAT470M16 CEAT4R7M50	
	C169, C170, C474, C475 C171 C175 C200, C201 C202, C203	PCH1127 PCH1126 CQMA154J50 PCH1128 Not used	CEAT4R7M50 CEAT101M10 CEAT101M10 Not used CKSQYF103Z50	CEAT4R7M50 CEAT101M10 CEAT101M10 Not used CKSQYF103Z50	
	C301, C302 C303, C411 C309 C322 C341	CQMA154J50 PCH1122 CFTLA474J50 PCH1128 PCH1122	Not used CEAT101M10 CEATR47M50 CEAT101M10 CEAT101M10	Not used CEAT101M10 CEATR47M50 CEAT101M10 CEAT101M10	
	C410 C414, C415 C429, C430 C432, C433 C461	CEGA470M25 CEGA4R7M50 PCH1124 PCH1126 CEGA4R7M50	CEAT101M10 CEAT220M25 CEAT470M16 CEAT470M16 Not used	CEAT101M10 CEAT220M25 CEAT470M16 CEAT470M16 Not used	
	C496 IC461 Q23 L21 L151	PCH1128 NJM2930L05 2SC3068 RTF1167 LFA100J	CEAT221M16 Not used 2SC1815 Not used Not used	CEAT221M16 Not used 2SC1815 Not used Not used	
	L301, L393 L303 L321 R26, R27 R447, R448, R449, R450	LFA100J LFA151J RTF1068 Not used Not used	LFA1R0J LFA1R0J LFA1R0J RS1/10S103J RS1/10S471J	LFA1R0J LFA1R0J LFA1R0J RS1/10S103J RS1/10S471J	
	R451, R452 R1447, R1448, R1449, R1450	RDR1/2PM101J RD1/4VM471J	Not used Not used	Not used Not used	

Note : Refer to "3.SCHEMATIC DIAGRAM".

C HEADPHONE BOARD ASSY

Although PWZ3773 and PWZ3776 are different in part number, they consist of the same components.

E F POWER BOARD ASSY

PWZ3771, PWZ3772 and PWZ3770 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		PWZ3770	PWZ3771	PWZ3772	
	C11	CKSQYF103Z50	CKSQYF473Z50	CKSQYF473Z50	
	C12	Not used	CKSQYF473Z50	CKSQYF473Z50	
	C13, C34	CKSQYF103Z50	Not used	Not used	
	C18, C19, C33	CEZA2R2M50	Not used	Not used	
	C51	PCH1124	CEAT330M25	CEAT330M25	
	C52	PCH1126	CEAT101M35	CEAT101M35	
	C53	CEZA4R7M50	Not used	Not used	
	C1012	CQMA103J50	Not used	Not used	
	C1020	CQMA223J50	Not used	Not used	
	D56	1SS355	Not used	Not used	
	D57	UDZS6.8B	Not used	Not used	
	L1108	PTH1016	Not used	Not used	
	L1110	PTH1014	Not used	Not used	
	Q54	2SC3068	Not used	Not used	
	Q55, Q56	DTC124EK	Not used	Not used	
	R15	RD1/4VM100J	Not used	Not used	
	R51, R54	RS1/10S223J	RS1/10S473J	RS1/10S473J	
	R55	RS1/10S223J	RS1/10S472J	RS1/10S472J	
	R58	RS1/10S471J	Not used	Not used	
	R59	RS1/10S223J	Not used	Not used	
	S05	Not used	PSB1006	Not used	
		VEF1040	Not used	Not used	

Note : Refer to "3.SCHEMATIC DIAGRAM".

F F SWITCH BOARD ASSY

PWZ3767 and PWZ3766 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		PWZ3766	PWZ3767	
	C701	CFTLA274J50	CEAT470M16	
	C702	PCH1128	CEAT221M16	
	C706	CFTLA274J50	CEAT220M50	
	C709, C710	CKSQYF103Z50	Not used	
	L701	LFA100J	Not used	
	L702, L703	LFA1R0J	Not used	
	S701, S702, S703, S704, S710, S711	ASG1034	VSG1009	

Note : Refer to "3.SCHEMATIC DIAGRAM".

G F MODE BOARD ASSY

PWZ3769 and PWZ3768 are constructed the same except for the following:

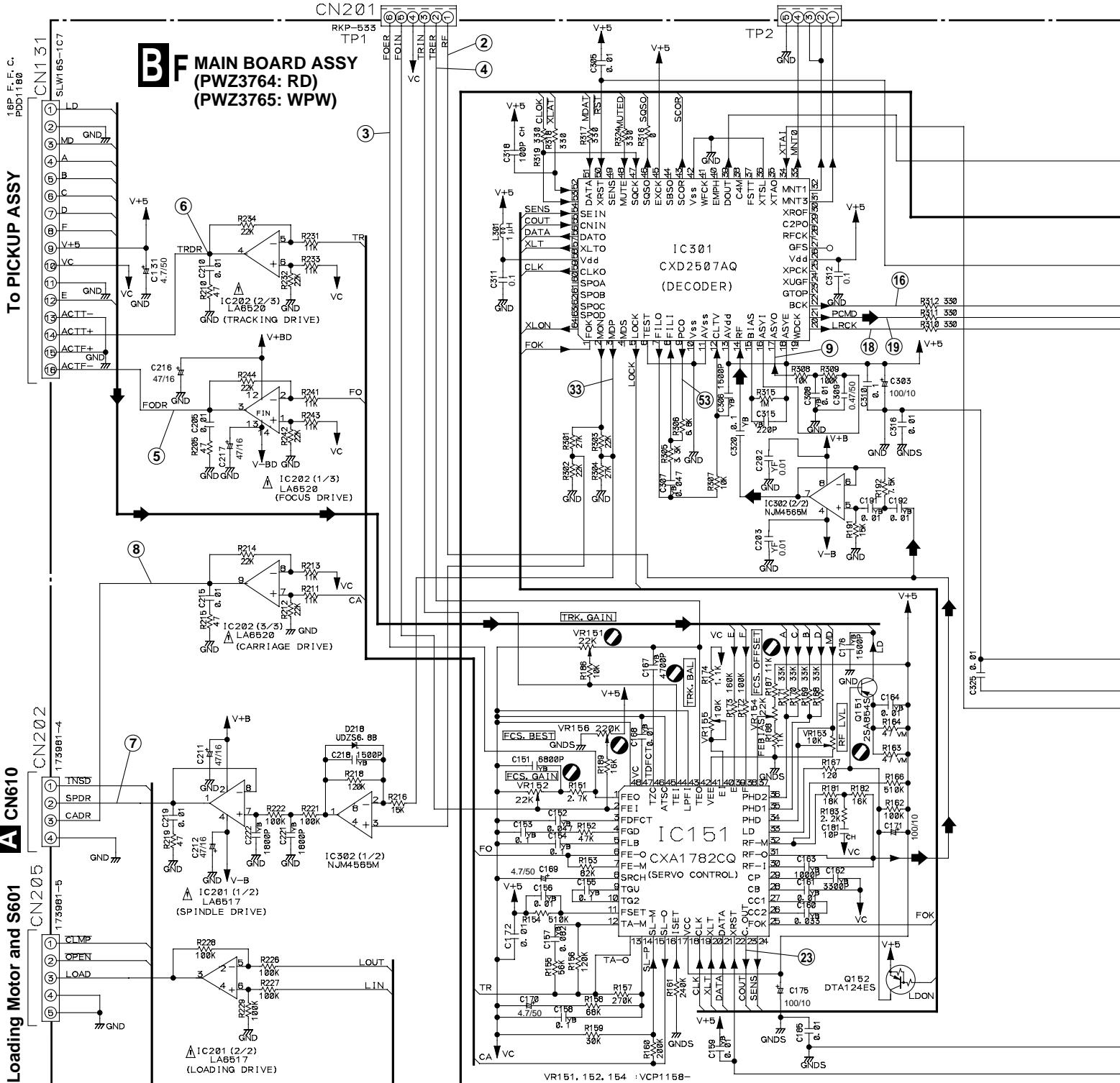
Mark	Symbol and Description	Part No.		Remarks
		PWZ3768	PWZ3769	
	S751, S752, S753, S754, S755	ASG1034	VSG1009	

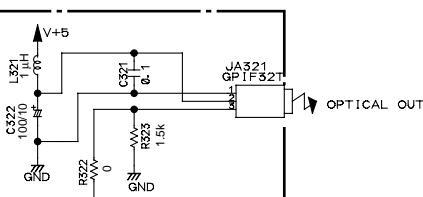
Note : Refer to "3.SCHEMATIC DIAGRAM".

PD-S507

3. SCHEMATIC DIAGRAM

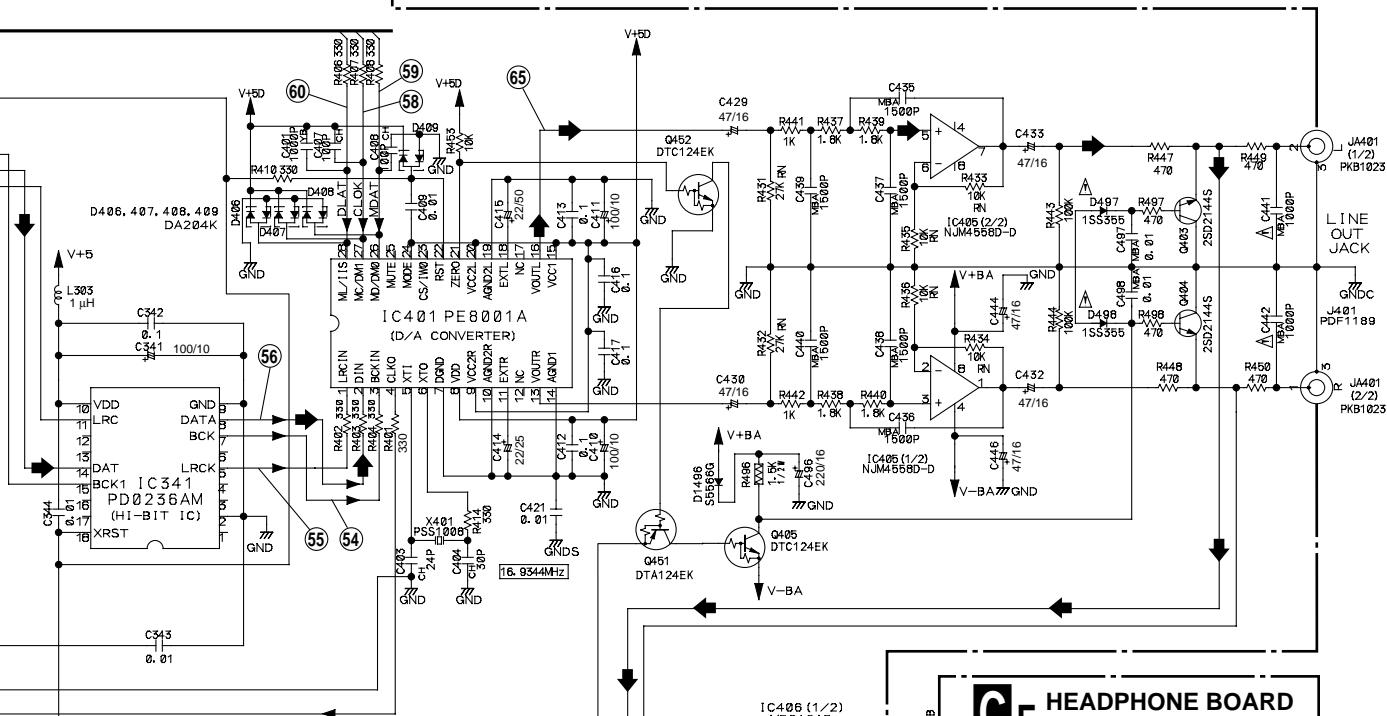
3.1 MAIN BOARD ASSY and HEADPHONE BOARD ASSY





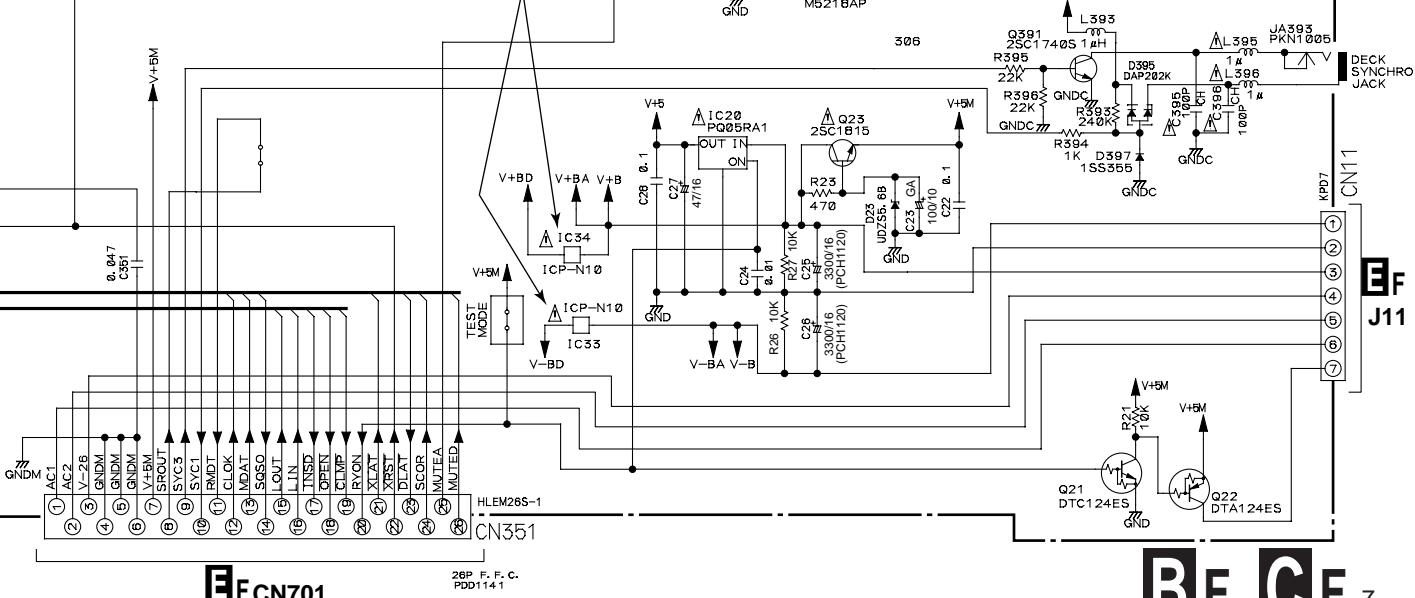
Note:

The numbers marked with a circle show the number of each measuring point, which correspond to the number in the service manual PD-S507 (ORDER NO. RRV2034) on page12 .

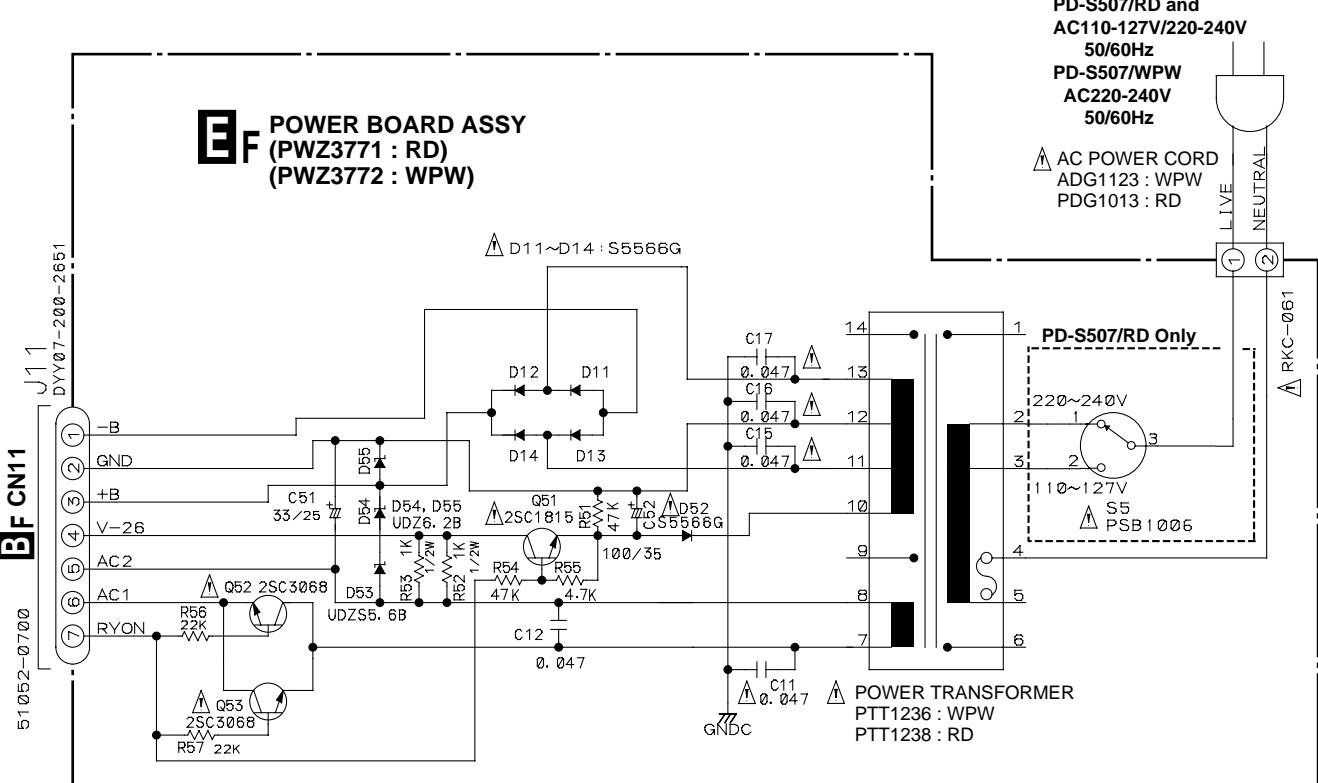
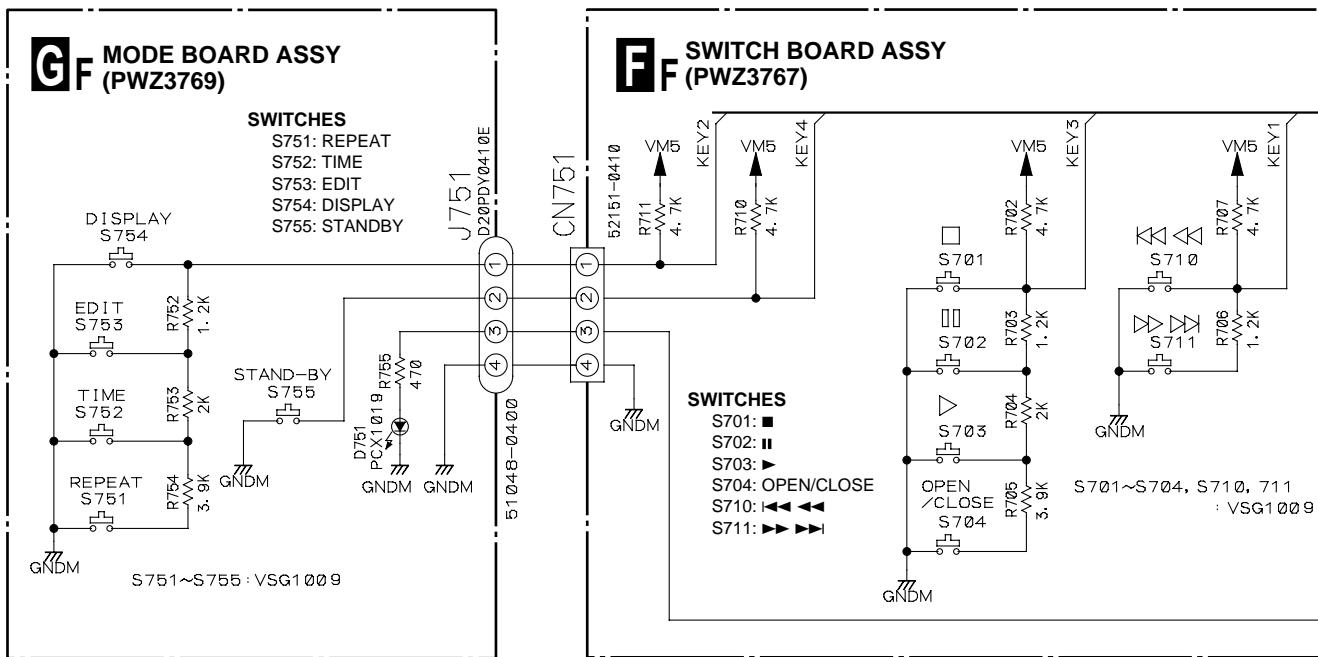


SIGNAL ROUTE

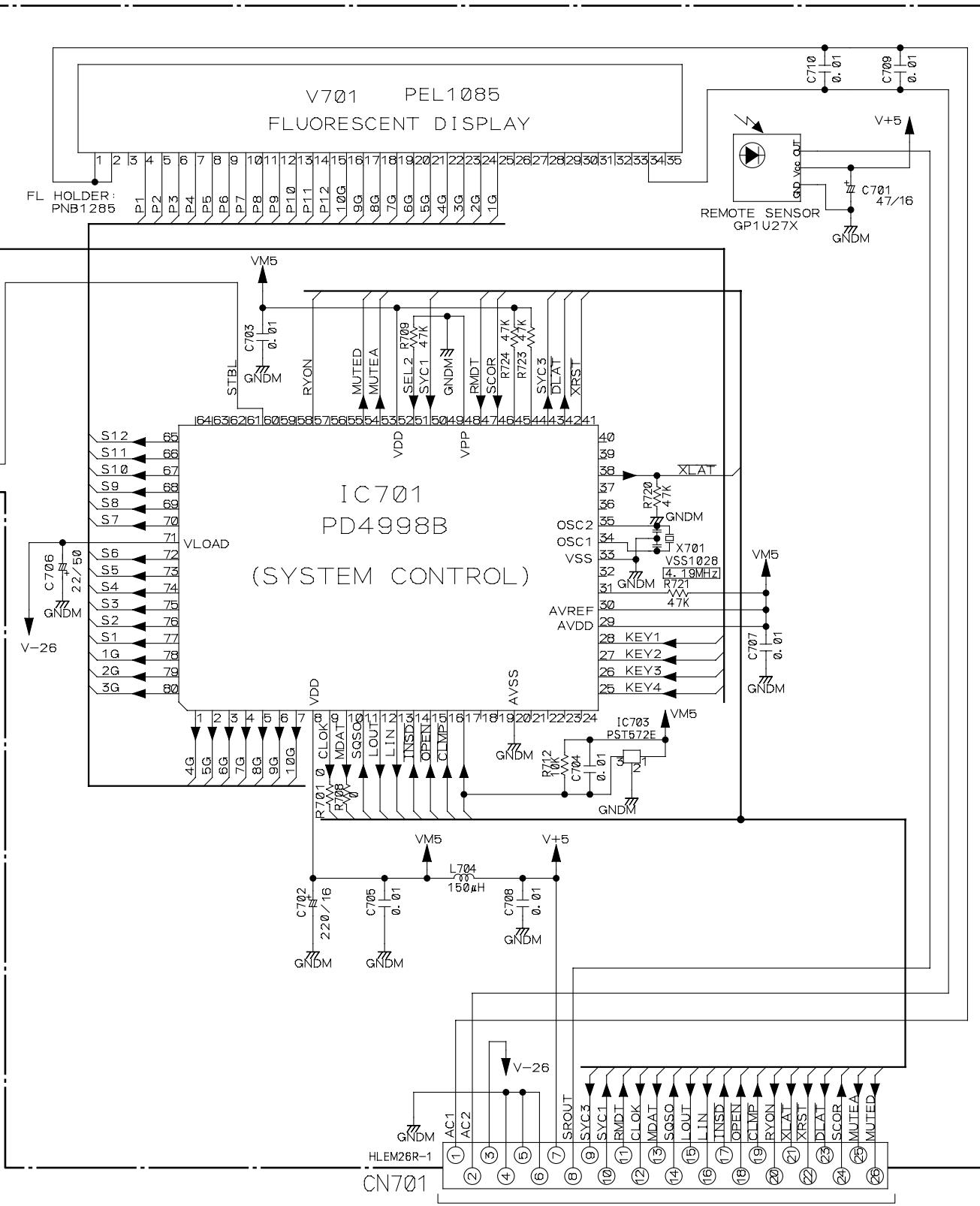
**CAUTION: FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. ICP-N10, MFD BY ROHM CO.,
LTD. FOR IC33 and IC34.**



3.2 SWITCH BOARD ASSY, POWER BOARD ASSY and MODE BOARD ASSY



NOTES	
<u>RESISTORS</u> (UNIT : Ω)	<u>INDUCTORS</u>
Unmarked Type: RS1/10S	Unmarked Type: LFA
<u>CAPACITORS</u> (UNIT : μF)	<u>OTHERS</u>
Unmarked Type: CKSQYF	GND : CHASSIS GND
Unmarked Electrolysis: CEAT	ABC : LOW ACTIV SIGNAL
TL CFTLA	

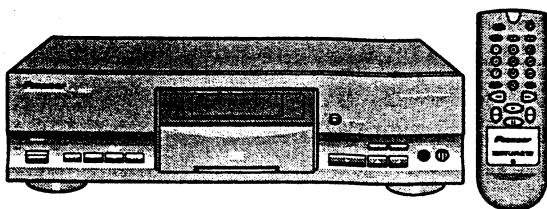


BFCN351

26P F. F. C : PDD1141

Pioneer

Service Manual



ORDER NO.
RRV2034

COMPACT DISC PLAYER PD-S507

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

Type	Model	Power Requirement	Remarks
MYXK	○	AC220-230V	
MVXK	○	AC220-230V	

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

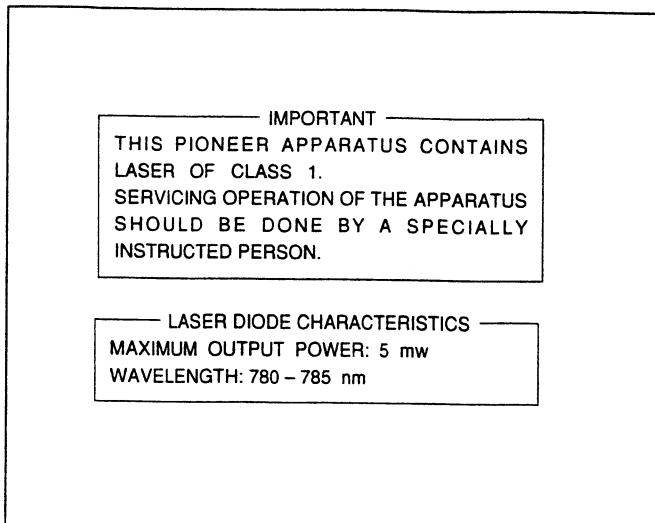
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T-ZZR OCT. 1998

1. SAFETY INFORMATION

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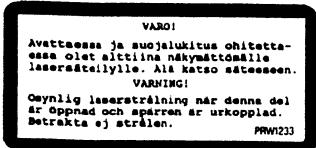


LABEL CHECK

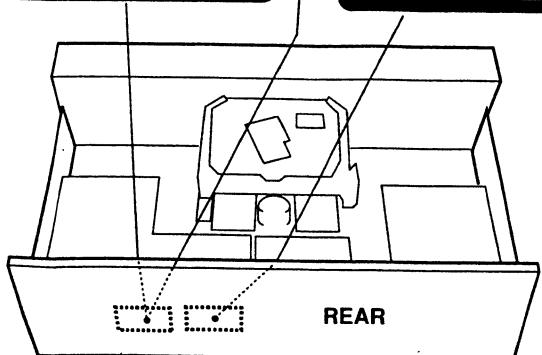
MVXK type



MYXK type



MYXK type



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 33 of CXA1782CQ (IC151) on the MAIN BOARD ASSY is connected to GND, or pin 22 of IC301(LD0IN) is connected to low level (ON), or else the terminals of Q151 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.

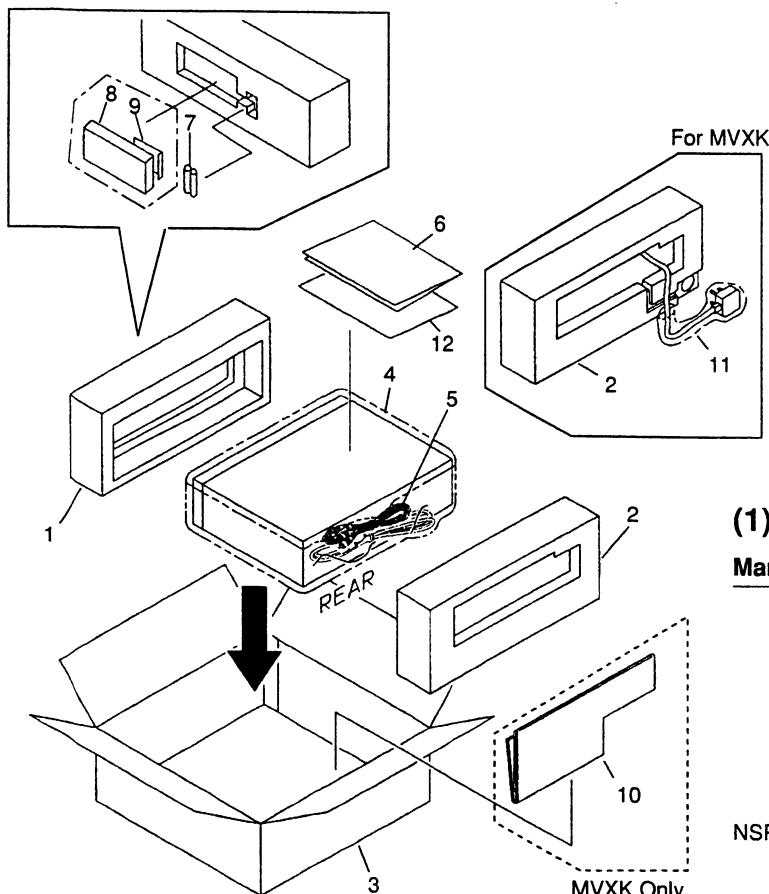
* Refer to page 28.

2. EXPLODED VIEWS AND PARTS LIST

NOTES :

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

2.1 PACKING



(1) PACKING PARTS LIST

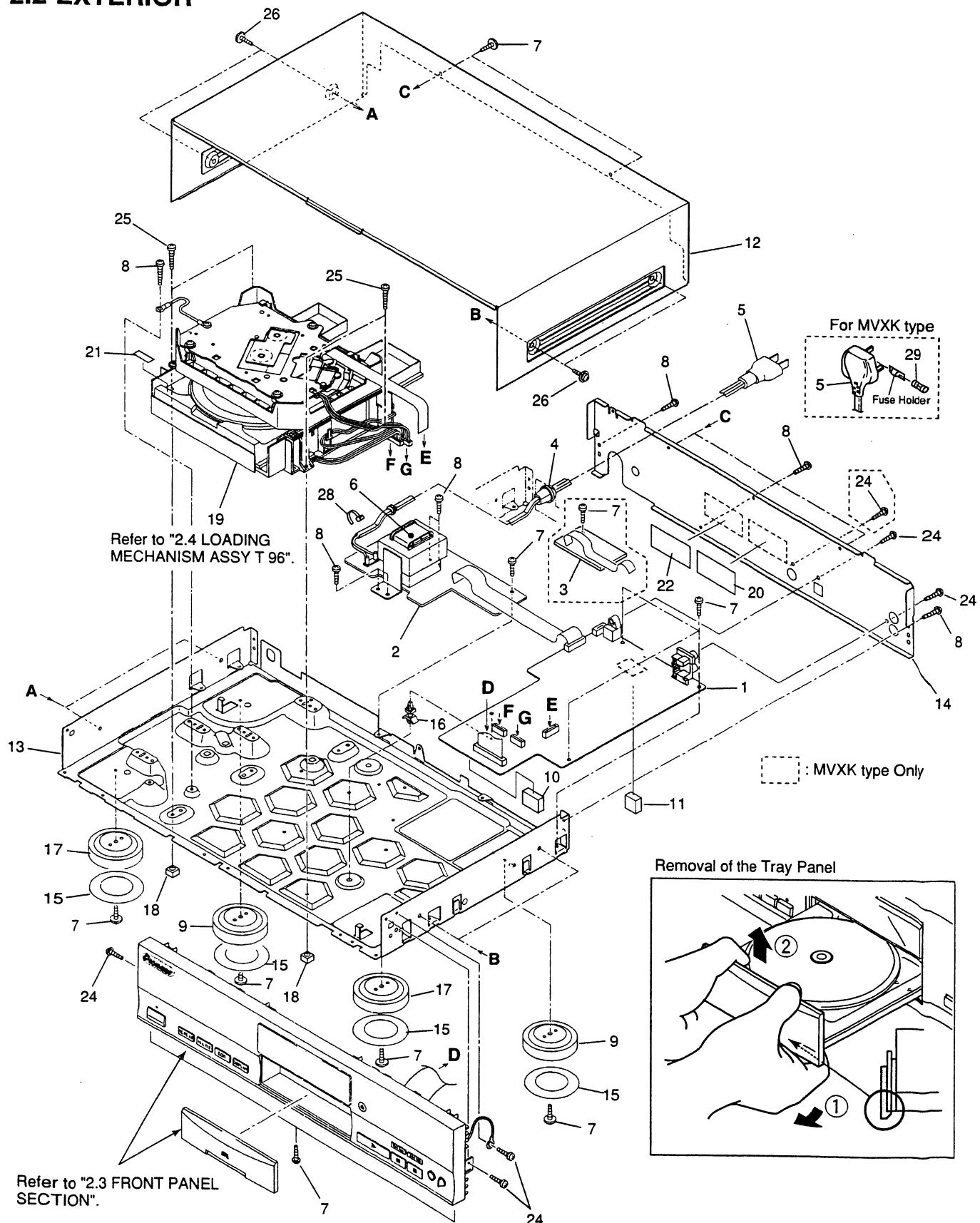
Mark	No.	Description	Part No.
	1	Protector F	PHA1329
	2	Protector R	See Contrast table (2)
	3	Packing Case	See Contrast table (2)
	4	Packing Sheet (750 x 600 x 0.5)	Z23-007
	5	Output Cable (L=1.2m)	PDE1248
NSP	6	Operating Instructions	See Contrast table (2)
	7	Batteries (R03, AAA)	VEM-122
	8	Remote Control Unit(CU-PD096)	XWW1001
	9	Battery Cover	XZN1001
	10	Spacer	See Contrast table (2)
NSP	11	Polyethylene Bag (115 x 270 x 0.05)	See Contrast table (2)
	12	Warranty Card	ARY7122

(2) CONTRAST TABLE

PD-S507/MYXK and MVXK are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.		Remarks
			MYXK type	MVXK type	
	2	Protector R	PHA1331	PHA1332	
	3	Packing Case	PHG2314	PHG2330	
	6	Operating Instructions (English/ French/ German/Italian/ Dutch/ Swedish/Spanish/Portuguese)	PRE1270	Not used	
	6	Operating Instructions (English)	Not used	PRB1274	
	10	Spacer	Not used	PHC1078	
	11	Polyethylene Bag (115 x 270 x 0.05)	Not used	Z21-013	

2.2 EXTERIOR



(1) EXTERIOR PARTS LIST

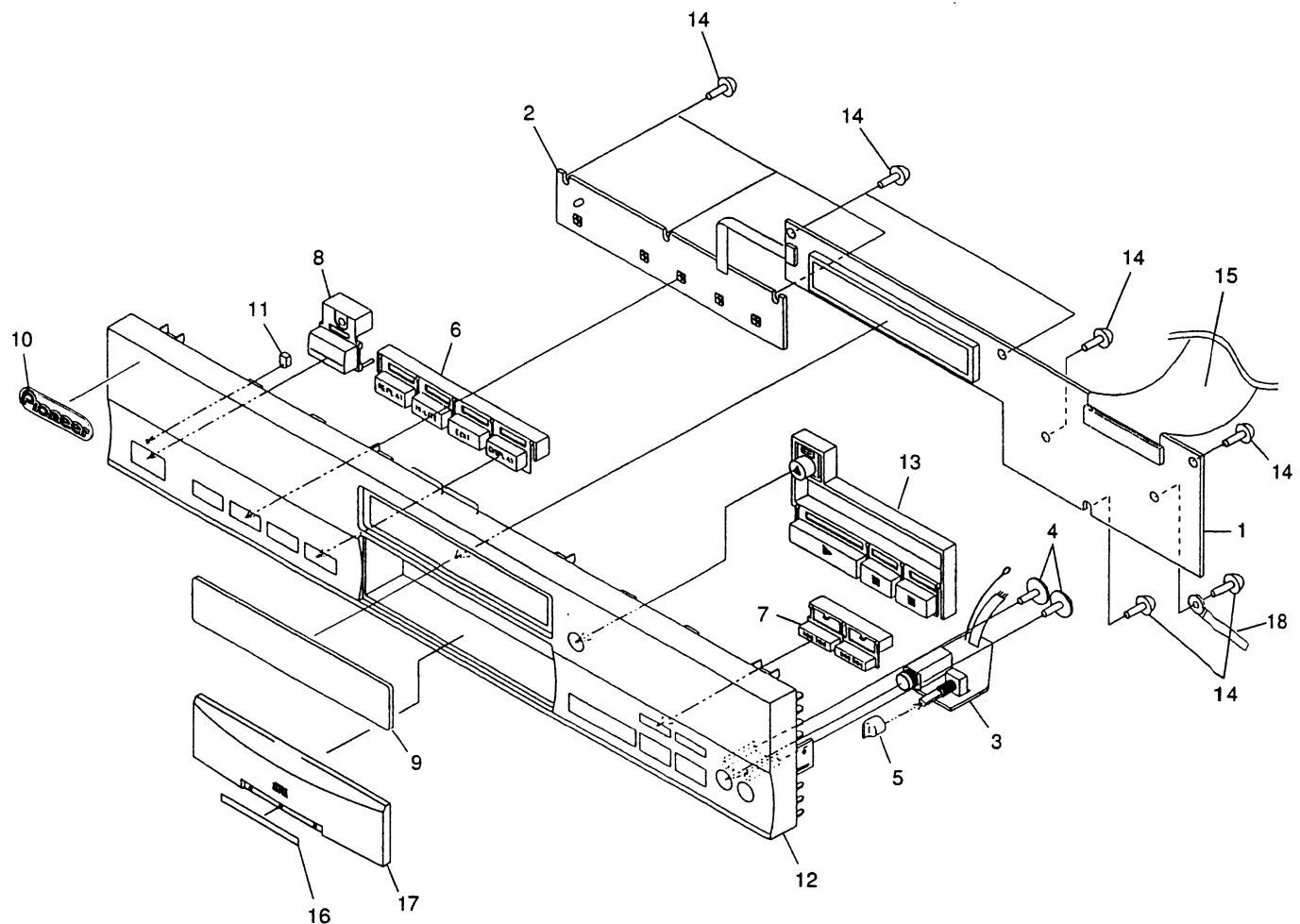
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	MAIN BOARD ASSY	See Contrast table (2)		21	Caution Label	PRW1244
	2	POWER BOARD ASSY	PWZ3770		22	Caution Label	See Contrast table (2)
	3	COAXIAL OUTPUT BOARD ASSY	See Contrast table (2)		23	
△	4	Strain Relief	CM-22B		24	Screw	BBZ30P080FCC
△	5	AC Power Cord	See Contrast table (2)		25	Screw	BSZ30P070FMC
△	6	Power Transformer	PTT1236		26	Screw	FBT40 P080FZK
	7	Screw	ABA1011		27	
	8	Screw (3 x 6)	ABA1207		28	Binder (SKB-90BK)	ZCA-SKB90BK
	9	Insulator	AMR7198	△	29	Fuse (5A)	See Contrast table (2)
	10	Rubber Spacer B	PEB1281				
NSP	11	PCB Spacer	PEB1304				
	12	Bonnet	PYY1162				
NSP	13	Under Base 56	PNA2214				
	14	Rear Base	See Contrast table (2)				
	15	Cushion 55	PNM1316				
NSP	16	PCB Holder	PNW2100				
	17	Insulator	PNW2766				
	18	Disc Guard	REC1305				
NSP	19	Loading Mechanism Assy T96	PXA1604				
	20	Caution Label HE	See Contrast table (2)				

(2) CONTRAST TABLE

PD-S507/MYXK and MVXK are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.		Remarks
			MYXK type	MVXK type	
△	1	MAIN BOARD ASSY	PWZ3762	PWZ3763	
	3	COAXIAL OUTPUT BOARD ASSY	Not used	PWZ3775	
	5	AC Power Cord	PDG1043	PDG1055	
	14	Rear Base	PNA2419	PNA2442	
	20	Caution Label HE	PRW1233	Not used	
△	22	Caution Label	VRW1094	PRW1018	
	29	Fuse (5A)	Not used	PEK1003	

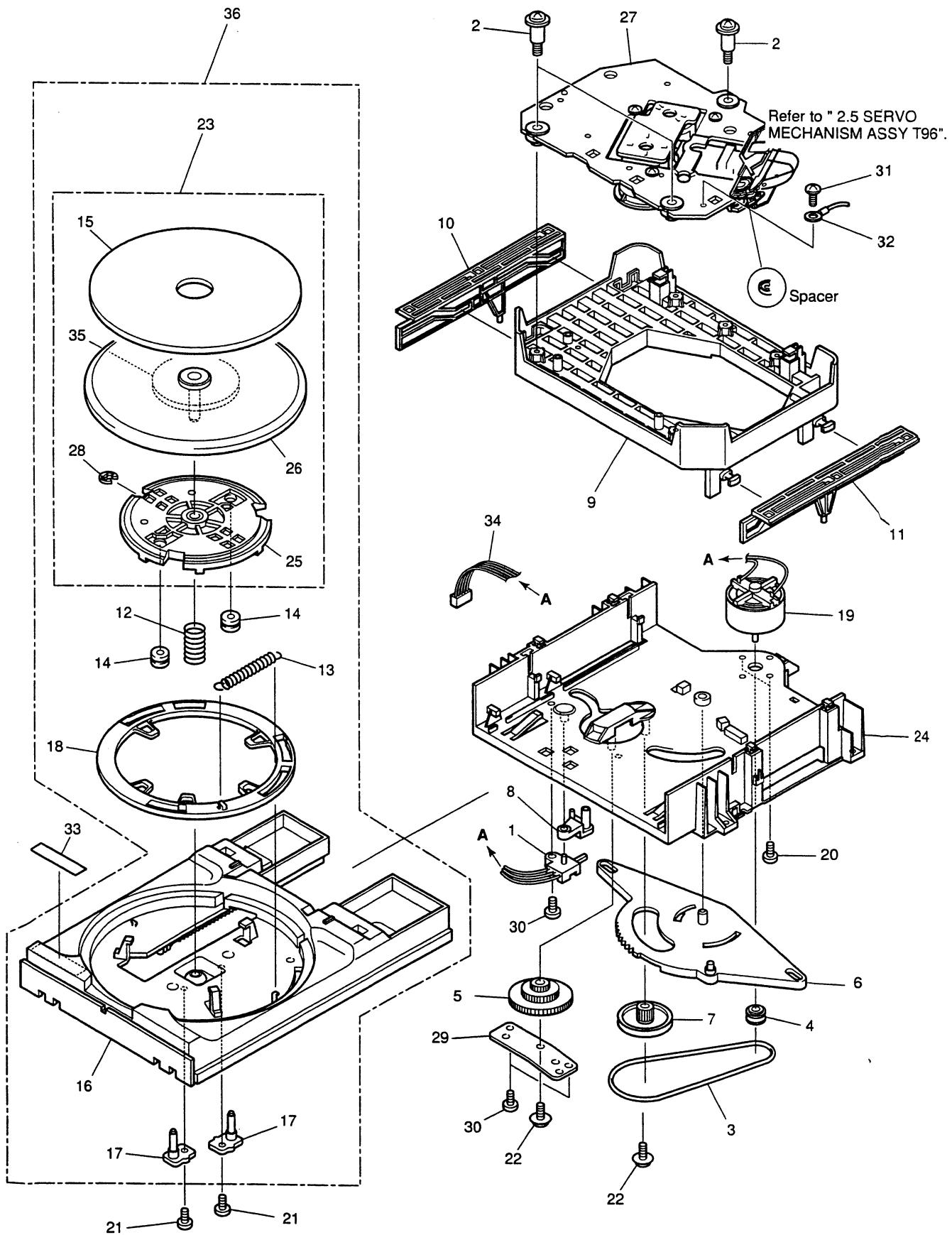
2.3 FRONT PANEL SECTION



■ FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
1		SWITCH BOARD ASSY	PWZ3766		11	LED Lens	PNW2019
2		MODE BOARD ASSY	PWZ3768		12	Function Panel	PNW2807
3		HEADPHONE BOARD ASSY	PWZ3773		13	PLAY Button B	RAC2204
4		Screw (FE)	ABA7009		14	Screw	PPZ30P080FMC
5		HEADPHONE Knob	PAC1707		15	26P FFC/30V	PDD1142
6		MODE Button	PAC1887	NSP	16	Tray Badge	PAN1358
7		MANUAL Button	PAC1889		17	Tray Name Plate	PNW2806
8		POWER Knob	PAC1891		18	Cord Clamper	RNH-184
9		Display Window	PAM1759				
10		Name Plate	PAM1776				

2.4 LOADING MECHANISM ASSY T96

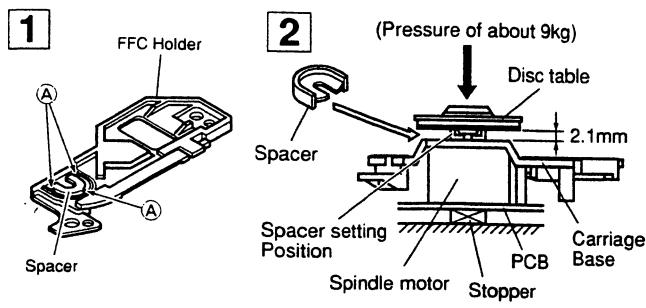


■ LOADING MECHANISM ASSY T96 PARTS LIST

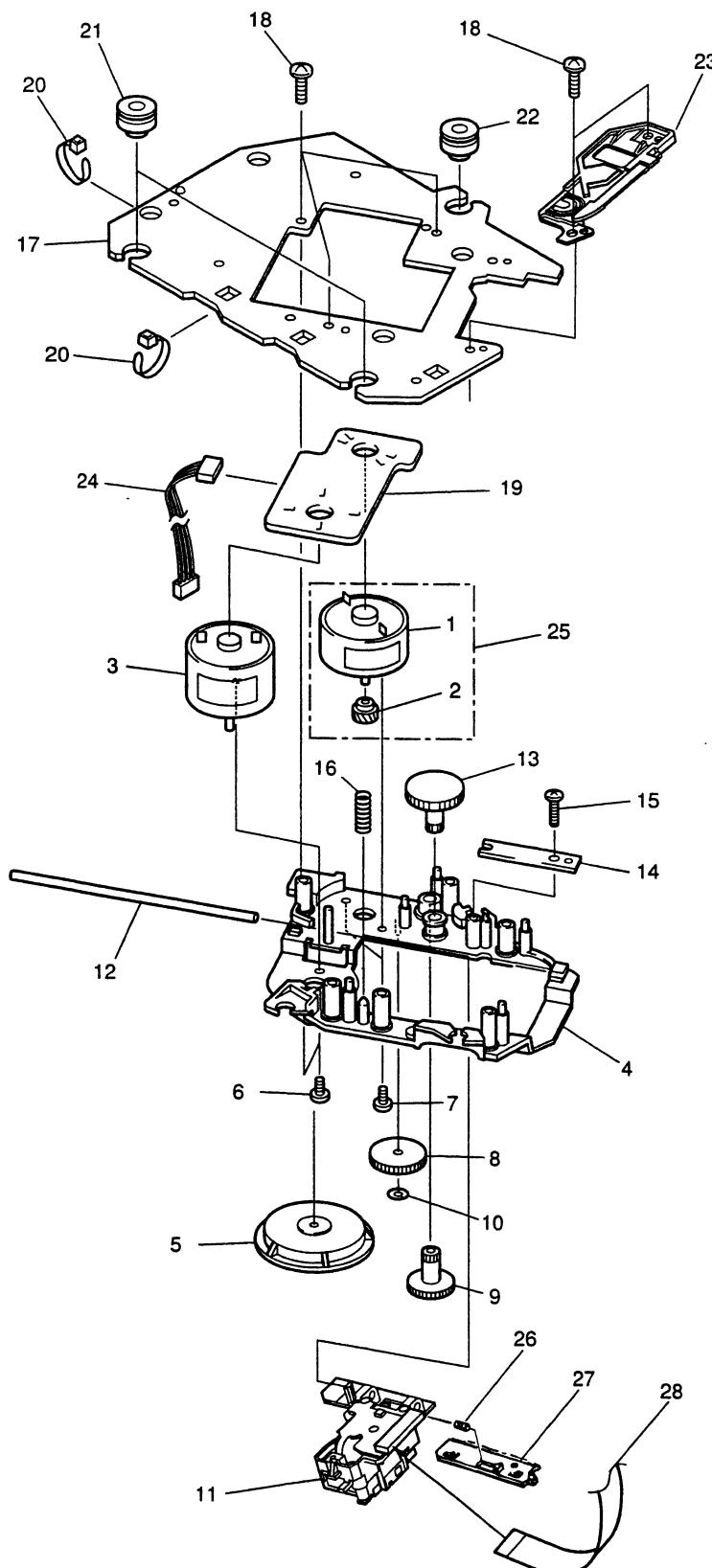
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
1	Lever Switch (S601)	DSK1003		26	Turn Table	PNR1044	
2	Float Screw	PBA1027	NSP	27	Servo Mechanism Assy T96	PXA1606	
3	Rubber Belt	PEB1186		28	E Ring	YE20FUC	
4	Motor Pulley	PNW1634		29	Shaft Holder	PNB1382	
5	Drive Gear	PNW1996		30	Screw	BPZ26P060FMC	
6	Synchronized Lever	PNW2168		31	Screw	BBZ26P060FMC	
7	Gear Pulley	PNW1998	NSP	32	Earth Lead	DE010VFO	
8	SW Head	PNW1999		33	Caution Label	PRW1244	
9	Float Base	PNW2767	NSP	34	Connector Assy 5P	PDE1243	
10	Left Cam	PNW2001	NSP	35	Table Base	PXA1382	
11	Right Cam	PNW2002	NSP	36	Tray Assy TT	PXA1449	
12	Float Spring	PBH1120					
13	Lock Spring	PBH1121					
14	Float Rubber	PEB1014					
15	Table Rubber Sheet	PEB1181					
16	Tray	PNW2760					
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	PEA1199					
24	Loading Base	PNW2761					
25	Table Shaft Holder Assy	PXA1383					

● How to Install the Disc Table

- 1 Use nipper or other tool to cut the three sections marked **A** in figure 1. Then remove the spacer
- 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 T96



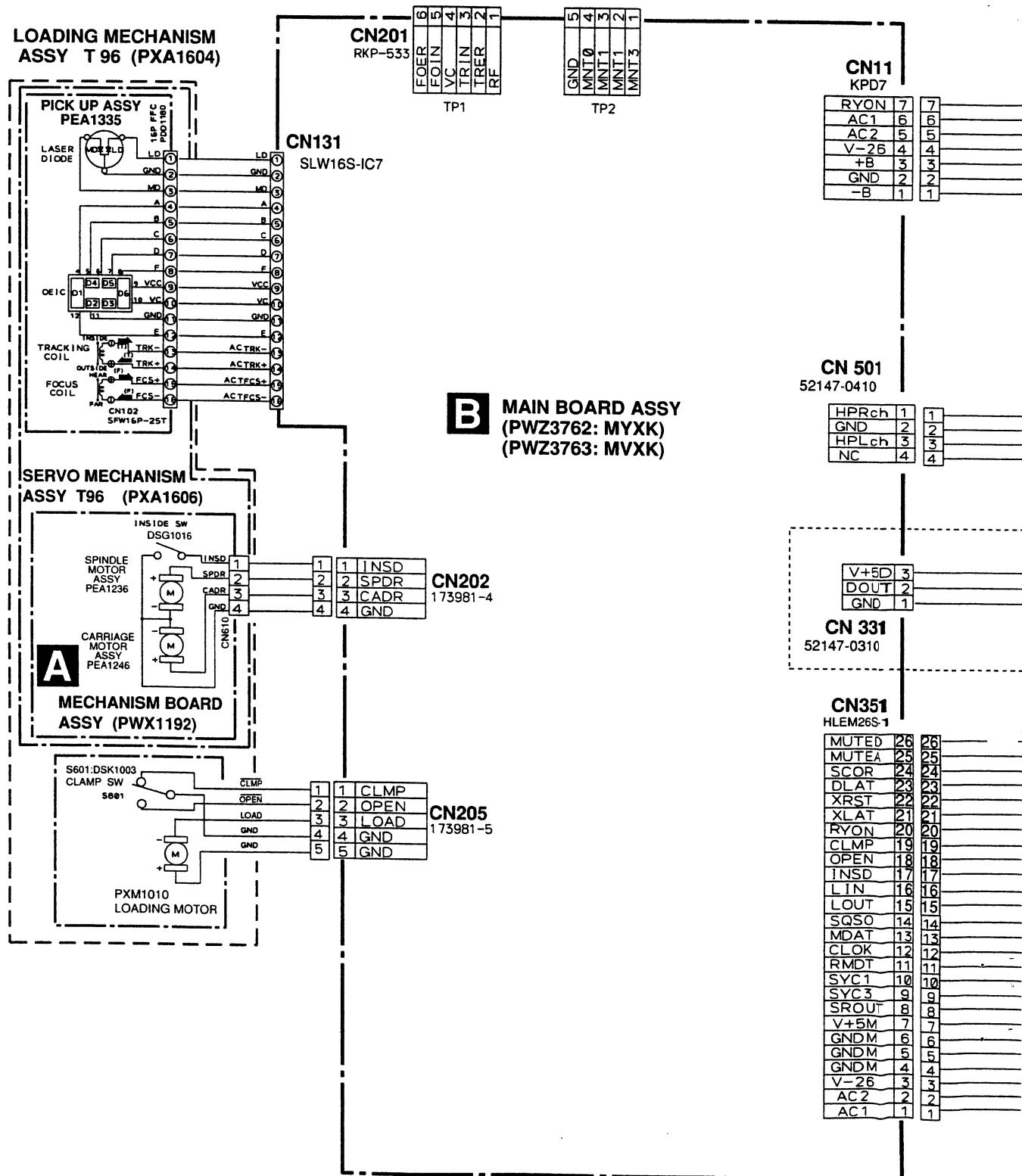
■ SERVO MECHANISM ASSY T96 PARTS LIST

Mark	No.	Description	Parts No.
	1	Carriage D.C. Motor (0.3W)	PXM1027
	2	Pinion Gear	PNW2055
	3	Spindle 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	PEA1335
	12	Guide Bar	PLA1094
	13	Gear 1	PNW2052
	14	Gear Stopper	PNB1303
	15	Screw	BPZ20P060FMC
	16	Earth Spring	PBH1132
	17	Mechanism Base T.T.96	PNB1592
	18	Screw	BPZ26P100FMC
	19	Mechanism Board Assy	PWX1192
	20	Binder	PEC-107
NSP	21	Float Rubber	PEB1031
	22	Float Rubber	PEB1170
	23	FFC Holder	PNW2734
	24	Connector Assy 4P	PDE1238
	25	Carriage Motor Assy (CARRIAGE)	PEA1246
	26	Rack Spring	PBH1128
	27	Rack Holder	PNW2056
	28	F.F.C.(16P)	PDD1185

3. SCHEMATIC DIAGRAM

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

3.1 OVERALL SCHEMATIC DIAGRAM



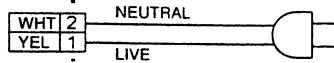
J11
DYY07-200-2651

7	RYON
6	AC1
5	AC2
4	V-26
3	+B
2	GND
1	-B

Cable holder
51048-0700

E POWER BOARD
ASSY (PWZ3770: MYXK/MVXK)

⚠ Power Transformer
(PTT1236: MYXK/MVXK)



⚠ AC Power cord
PDG1003: MYXK
AC220-230V 50/60Hz
PDG1055: MVXK
AC220-230V 50Hz

C PHONE BOARD
ASSY (PWZ3773: MYXK
/MVXK)

1	HPRch
2	GND
3	HPLch
4	NC

J501
D20PDY0406B Cable holder
51048-0400

PD-S507/MVXK Only

3	V+5D
2	DOUT
1	GND

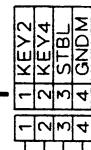
D COAXIAL OUTPUT
ASSY (PWZ3775:
/MVXK) Only

CN701
HLEM26R-1

26	MUTED
25	MUTEA
24	SCOR
23	DLAT
22	XRST
21	XLAT
20	RYON
19	CLMP
18	OPEN
17	INSD
16	LIN
15	LOUT
14	SQSO
13	MDAT
12	CLOK
11	RMDT
10	SYC1
9	SYC3
8	SRROUT
7	V+5M
6	GNDM
5	GNDM
4	GNDM
3	V-26
2	AC2
1	AC1

PDD1142

F SWITCH BOARD ASSY
(PWZ3766: MYXK/MVXK)



CN751
52151-0410



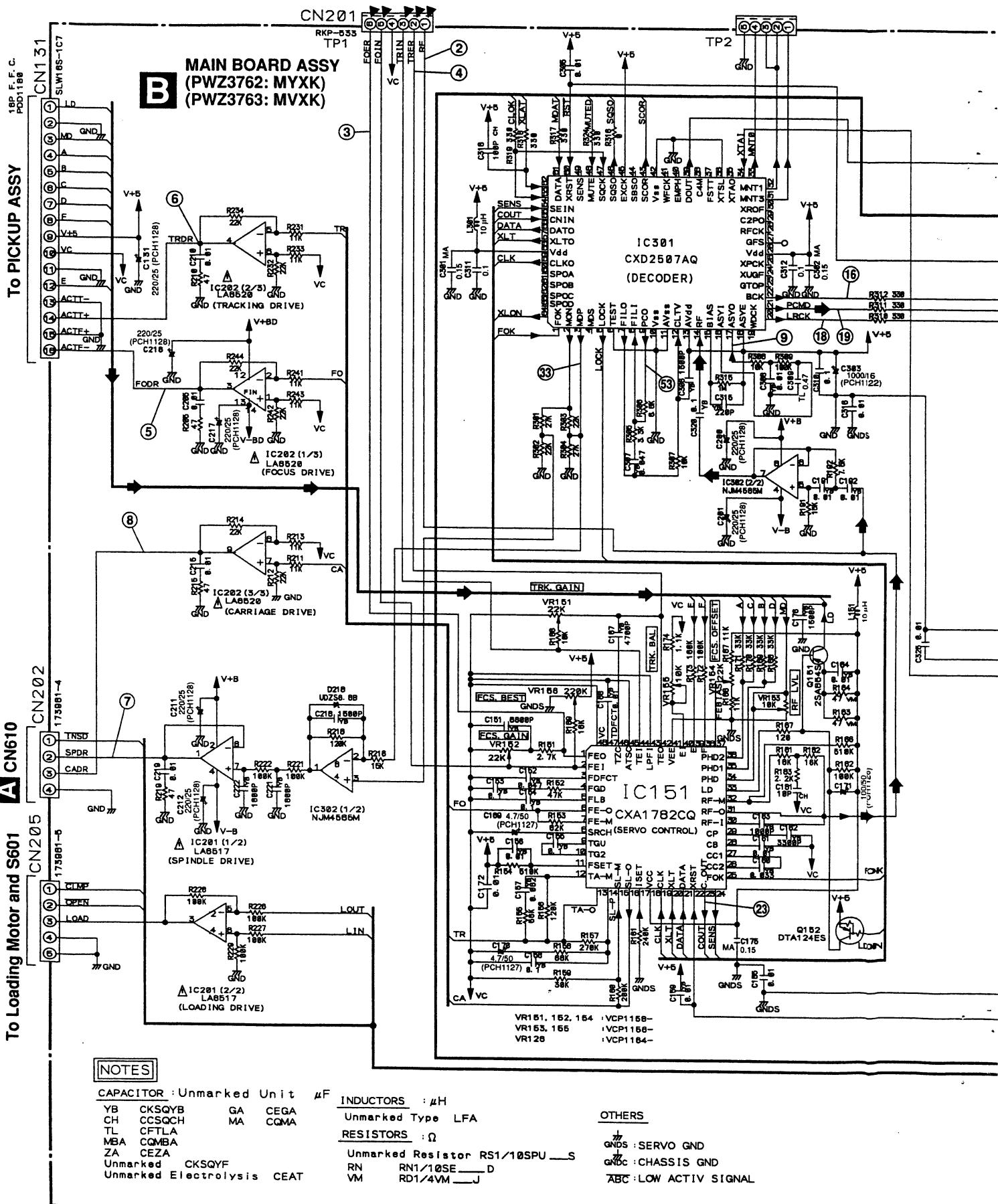
J751
D20PDY0410E

Cable holder
51048-0400

G MODE BOARD
ASSY (PWZ3768)

PD-S507

3.2 MAIN BOARD ASSY, PHONE BOARD ASSY and COAXIAL OUTPUT ASSY



CAPACITOR : Unmarked		Unit	µF
YB	CKSQYB	GA	CEGA
CH	CCSQCH	MA	CQMA
TL	CFTLA		
MBA	CQMBA		
ZA	CEZA		
Unmarked	CKSQYF		

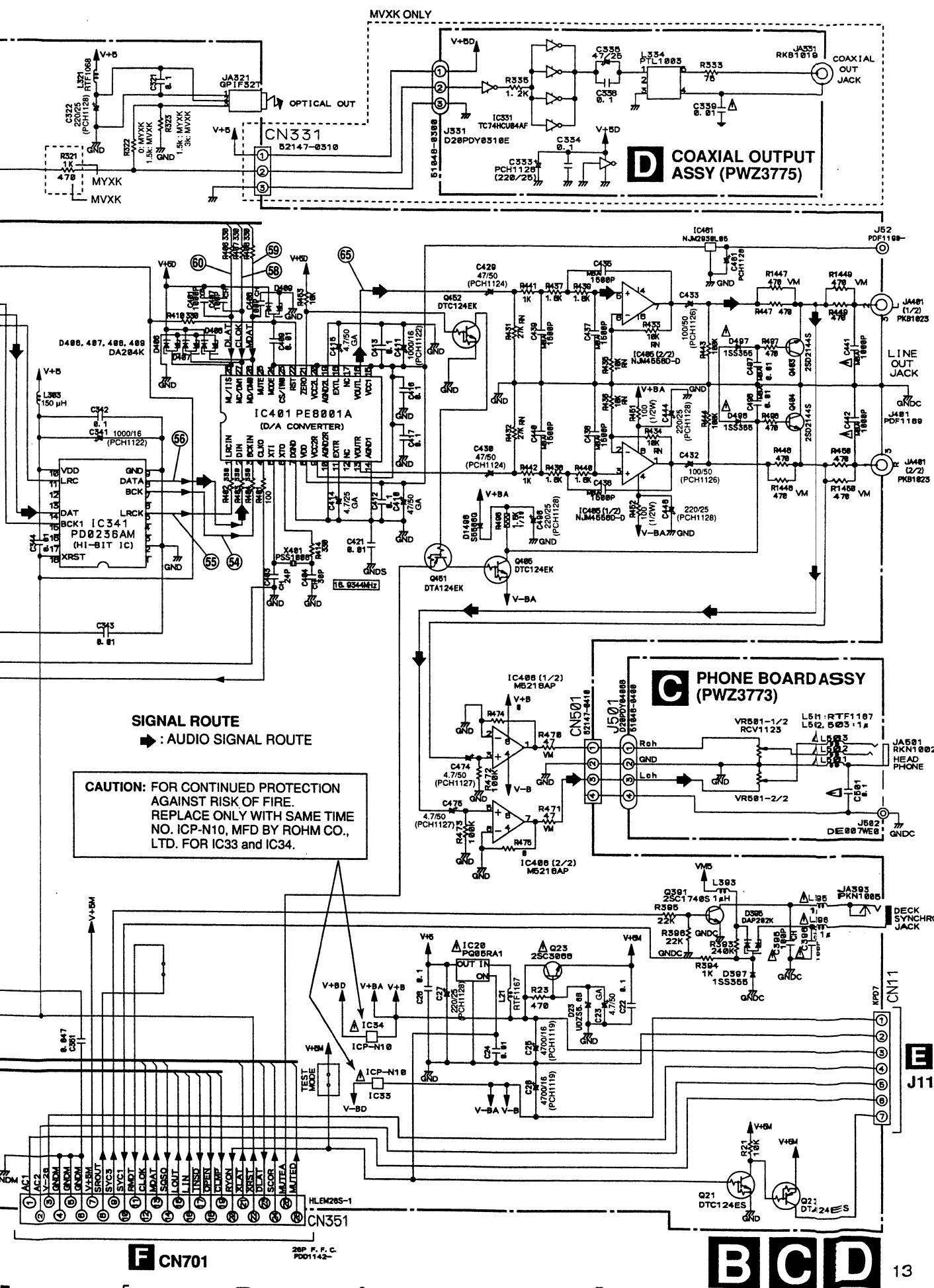
INDUCTORS : μ H

Unmarked Typ

RESISTORS : {
Unmarked Resistor RS1/10SPU ___S
RN RN1/10SE ___D
VM RD1/4VM ___J

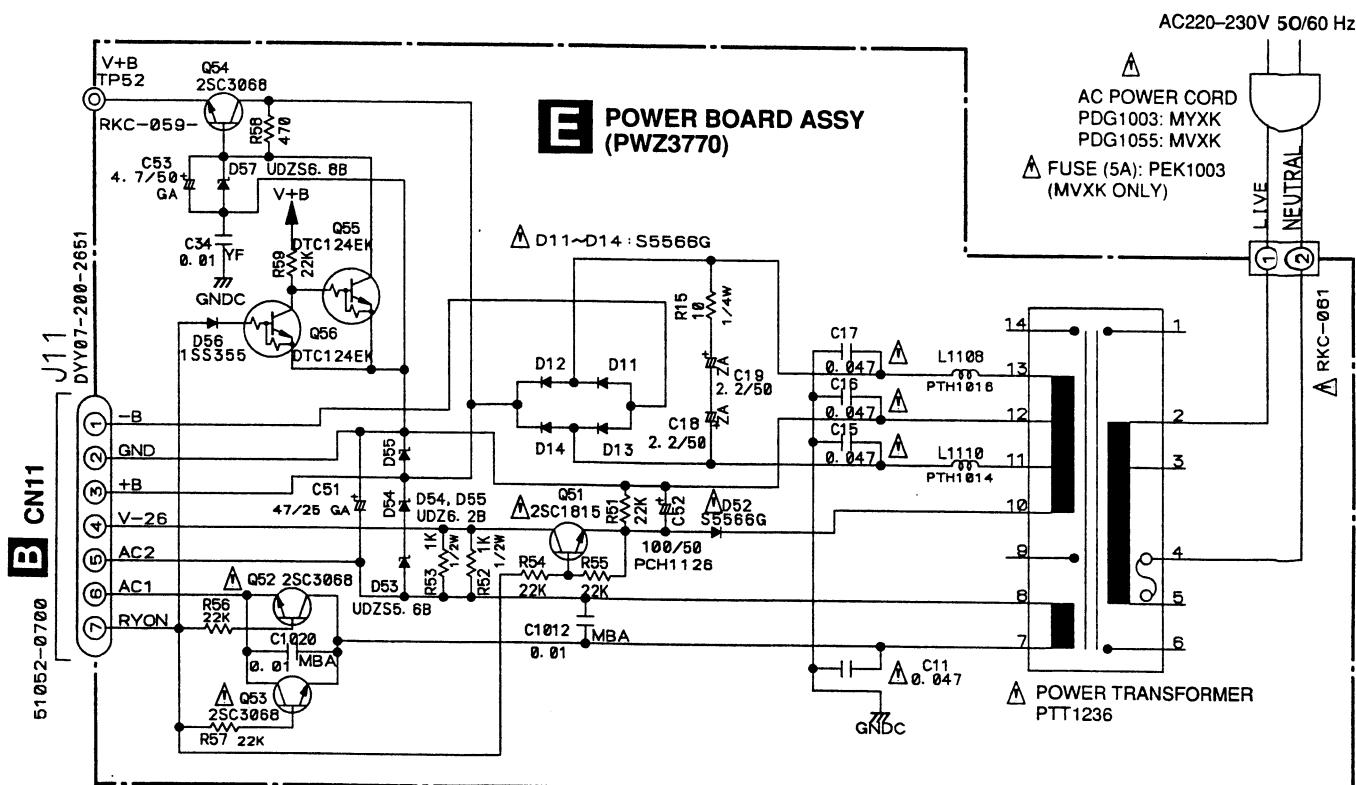
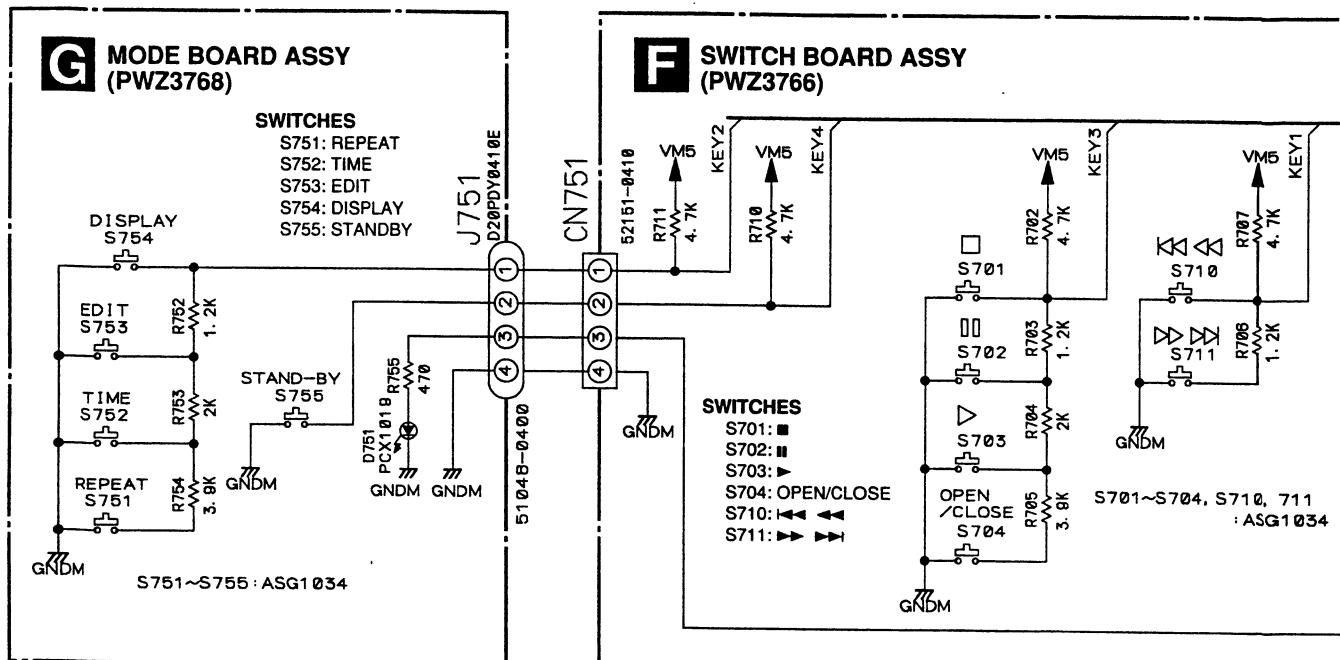
CHIERS

GNDS : SERVO GND
GNDC : CHASSIS GND
ABC : LOW ACTIV SIGNAL



PD-S507

3.3 POWER BOARD ASSY, SWITCH BOARD ASSY and MODE BOARD ASSY



NOTES

RESISTORS (UNIT: Ω)

Unmarked Type: RS1/10S

CAPACITORS (UNIT: μ F)

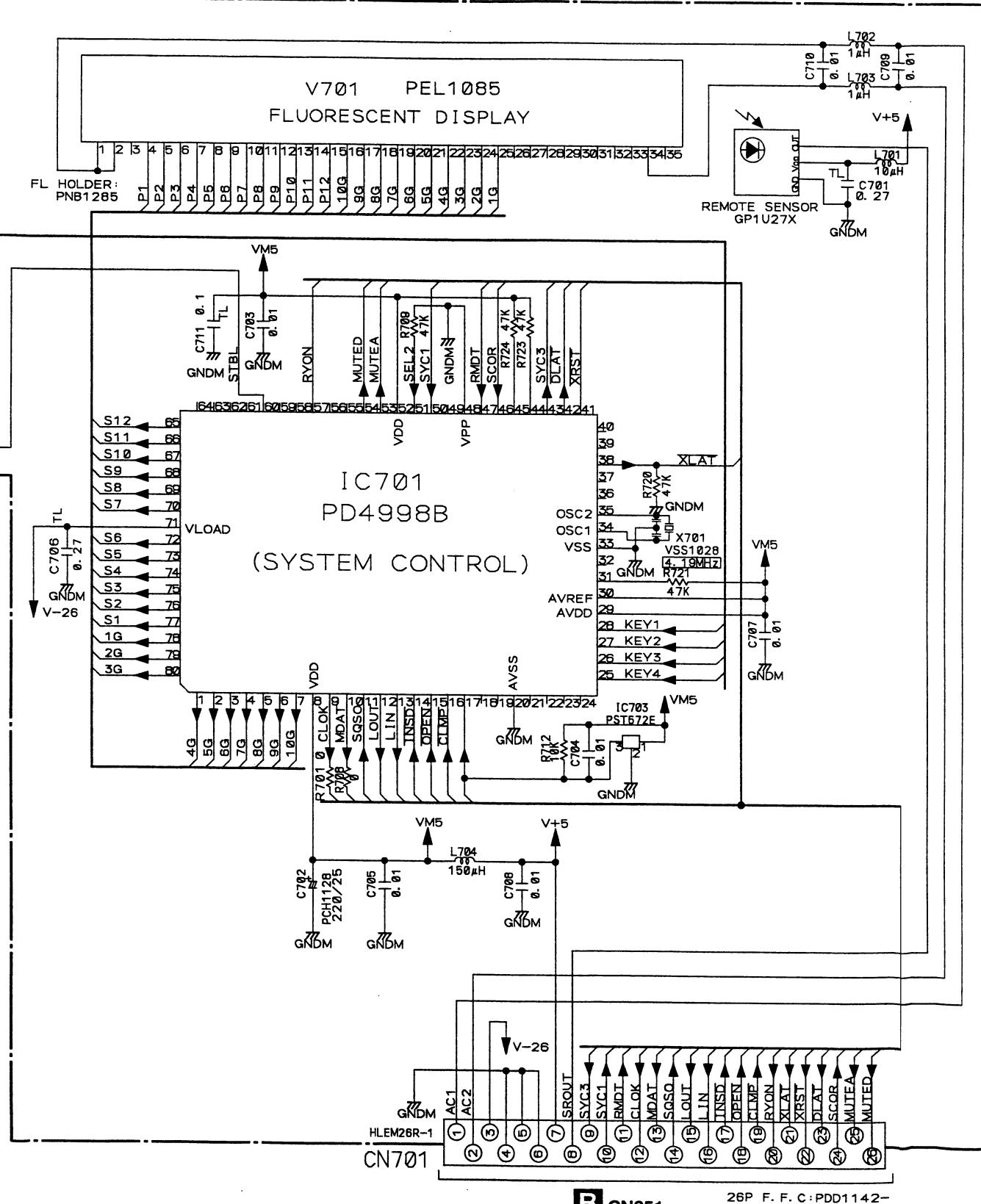
UNMARKED CAPACITORS (UNIT: μ F)
Unmarked Type: CKSQYF
Unmarked Electrolysis: CÉAT
TL CFTLA

INDUCTORS

INDUCTORS

OTHERS

OTHERS
GNDC : CHASSIS GND
ABC : LOW ACTIV. SIGNAL

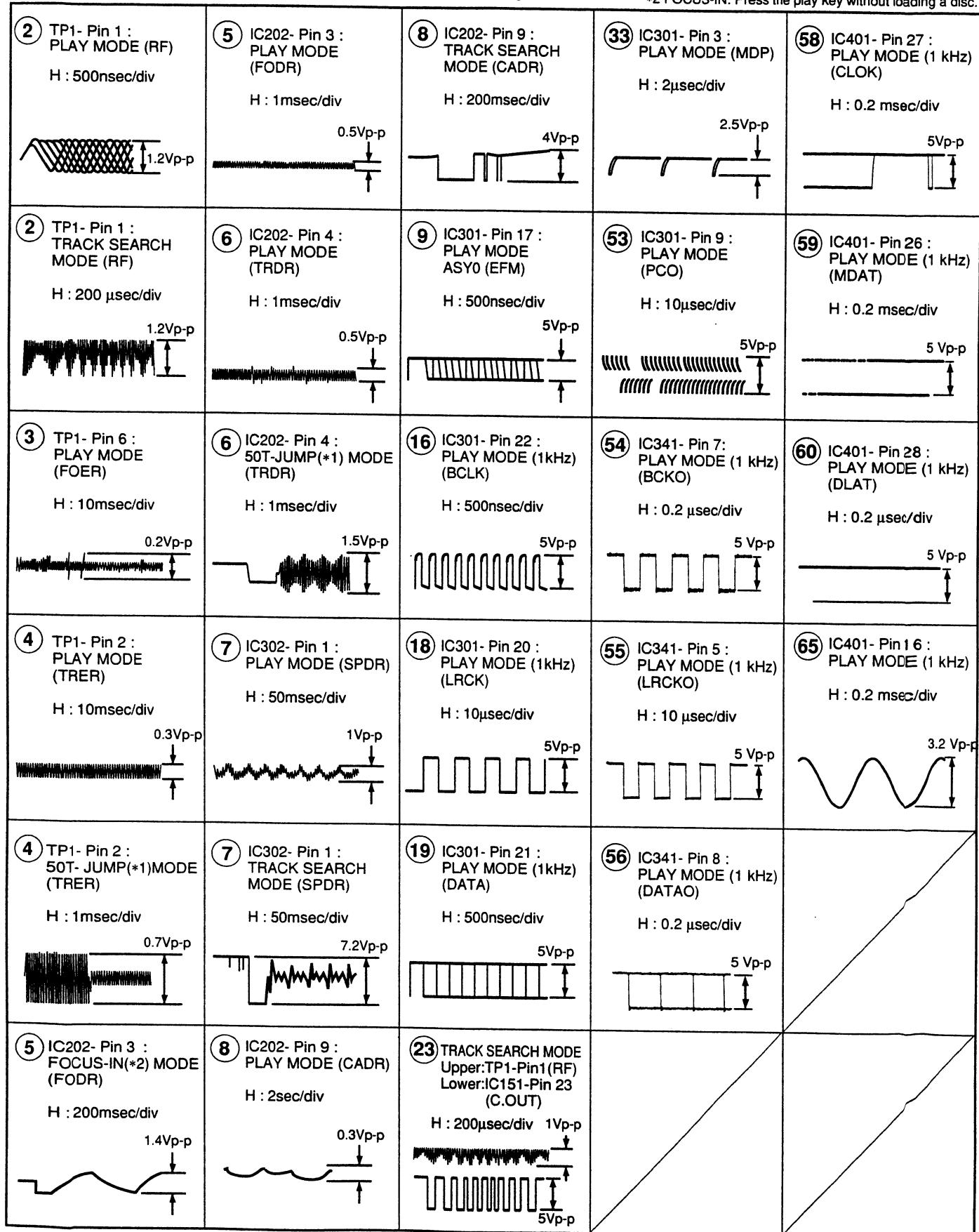


B MAIN BOARD ASSY Waveforms

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.



4. 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.

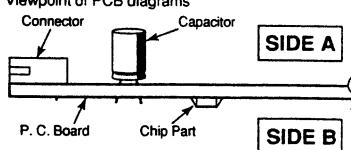
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Field effect transistor
		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.

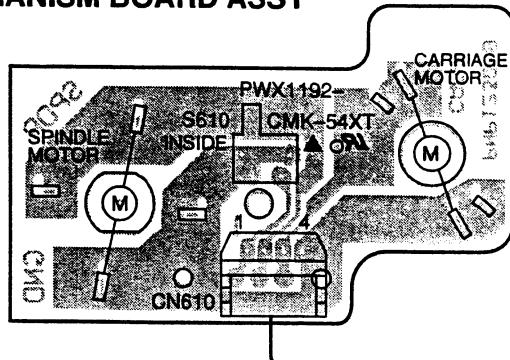
4. Viewpoint of PCB diagrams



4.1 PHONE BOARD ASSY and MECHANISM BOARD ASSY

SIDE A

A MECHANISM BOARD ASSY



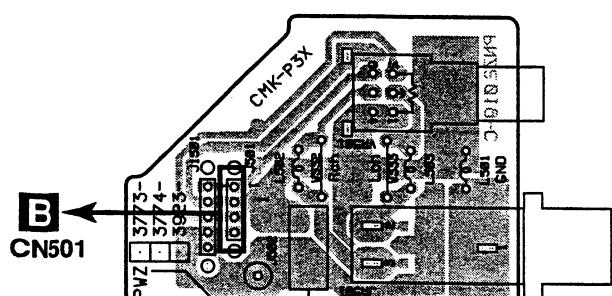
B CN202

SIDE A

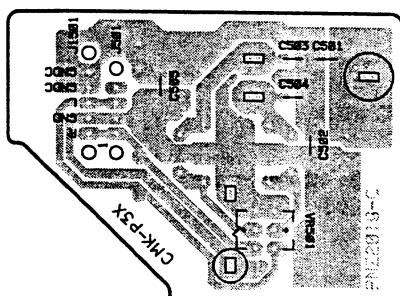
SIDE B

C PHONE BOARD ASSY

C PHONE BOARD ASSY



**B
CN501**



(PNP1448-C)

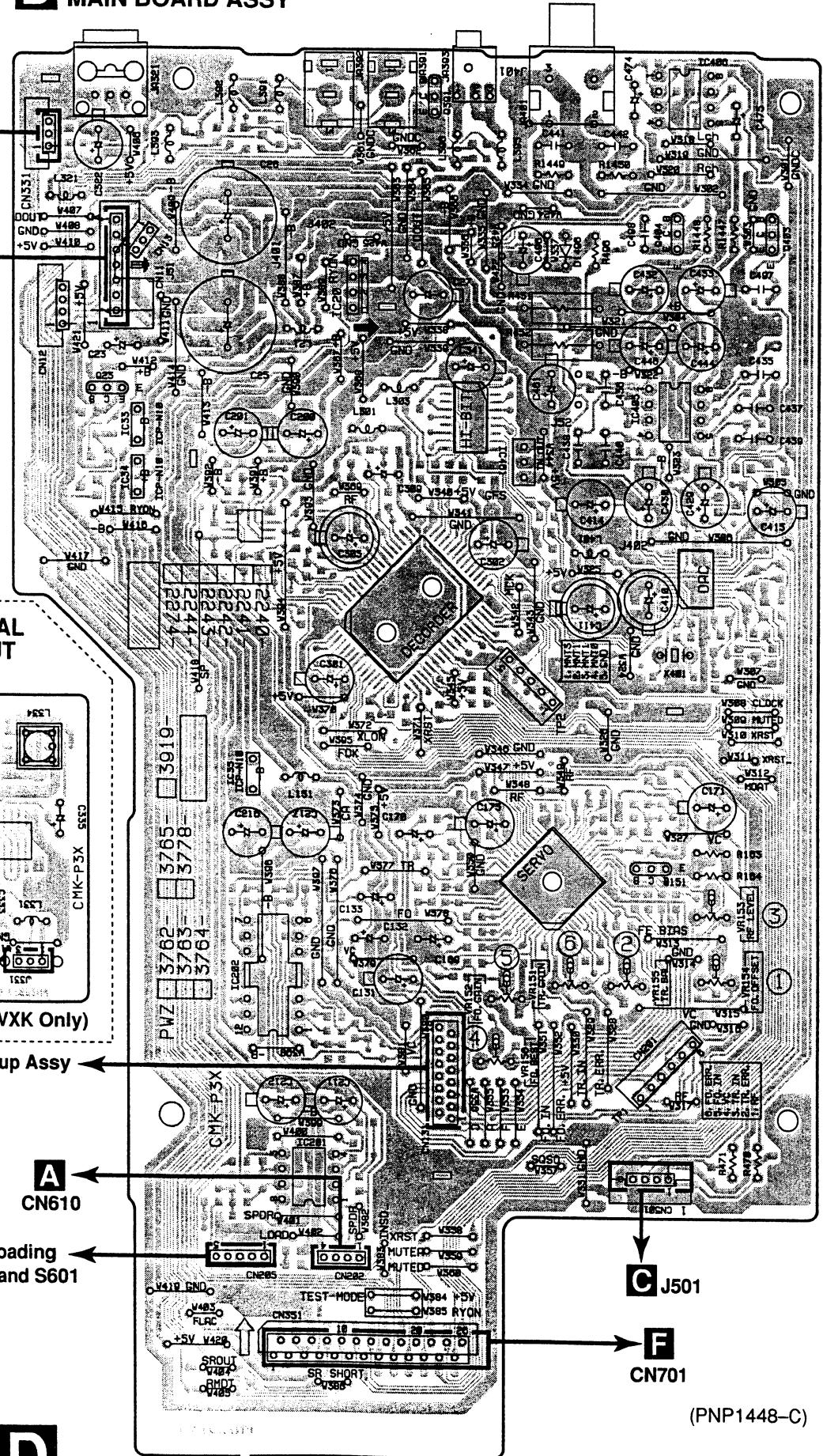
A C

4.2 MAIN BOARD ASSY and COAXIAL OUTPUT ASSY

SIDE A

B MAIN BOARD ASSY

A

E J11

(PD-S507/MVXK Only)

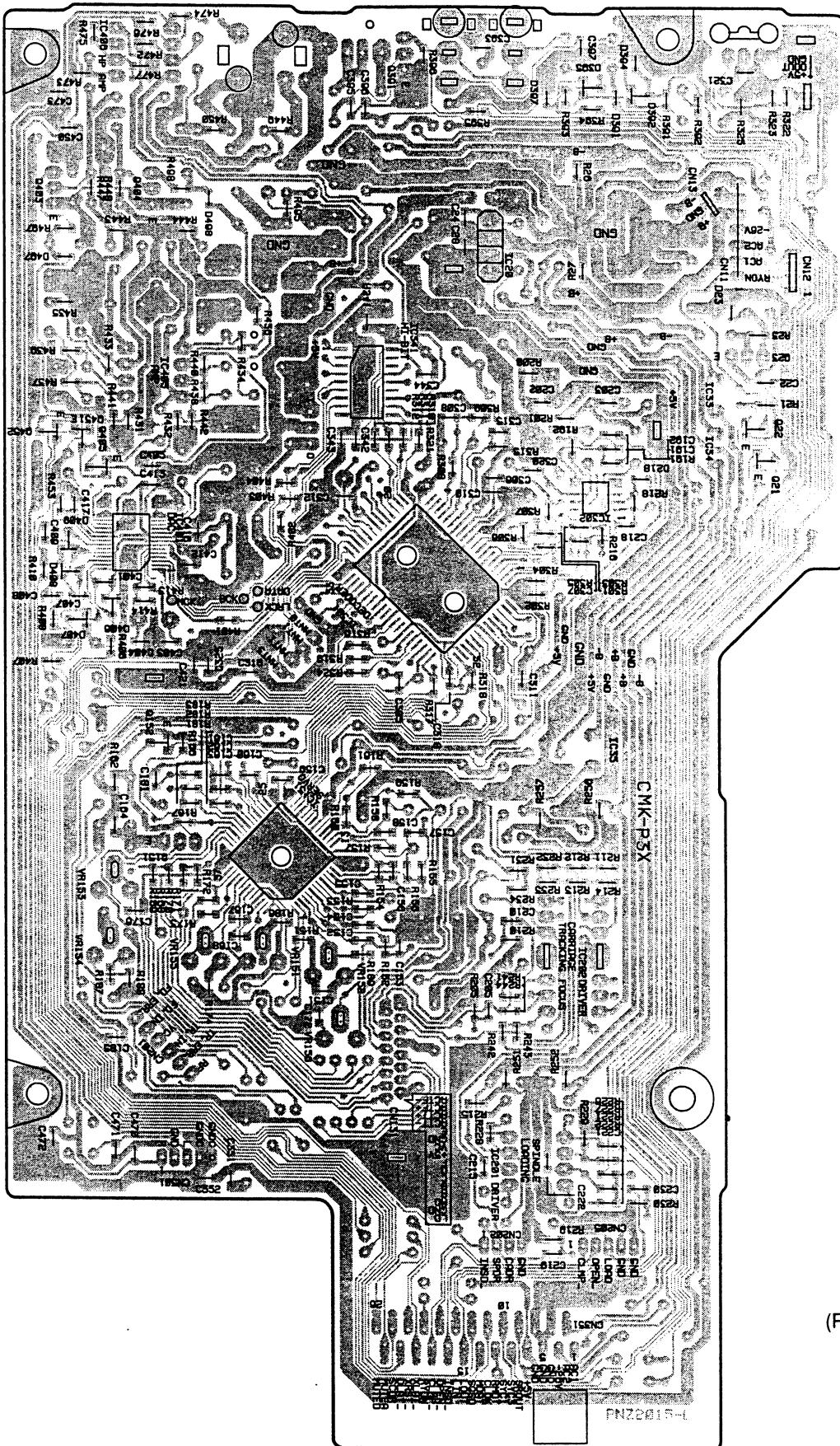
To Pickup Assy

A CN610To Loading
Motor and S601**C** J501**F** CN701

(PNP1448-C)

B **D**

B MAIN BOARD ASSY



(PNP 1448-C)

4.3 POWER BOARD ASSY

SIDE A

A



E POWER BOARD ASSY

The image shows a detailed circuit board layout. At the top, there are two sets of vertical inductor pads. The left set is labeled 'PRIMARY' and the right set is labeled 'SECONDARY'. Below these, there is a large rectangular area with a central crosshair, likely representing a transformer core. The board features various component pads, including diodes (D1-D5), transistors (T1-T5), and resistors (R1-R5). A ground plane is visible at the bottom. A label '055' is located in the bottom left corner.

B
CN11

(PNP1448-C)

Q53 Q52

Q54

Q51

4

20

E

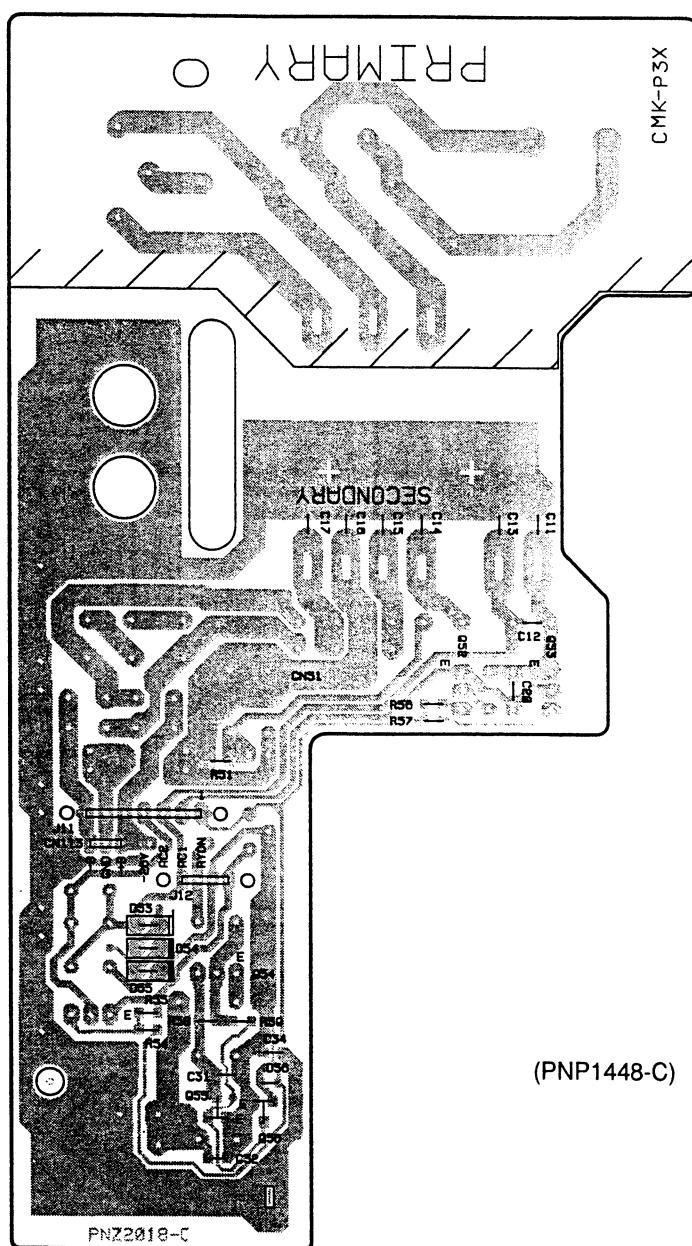
2

8

4

SIDE B

E POWER BOARD ASSY

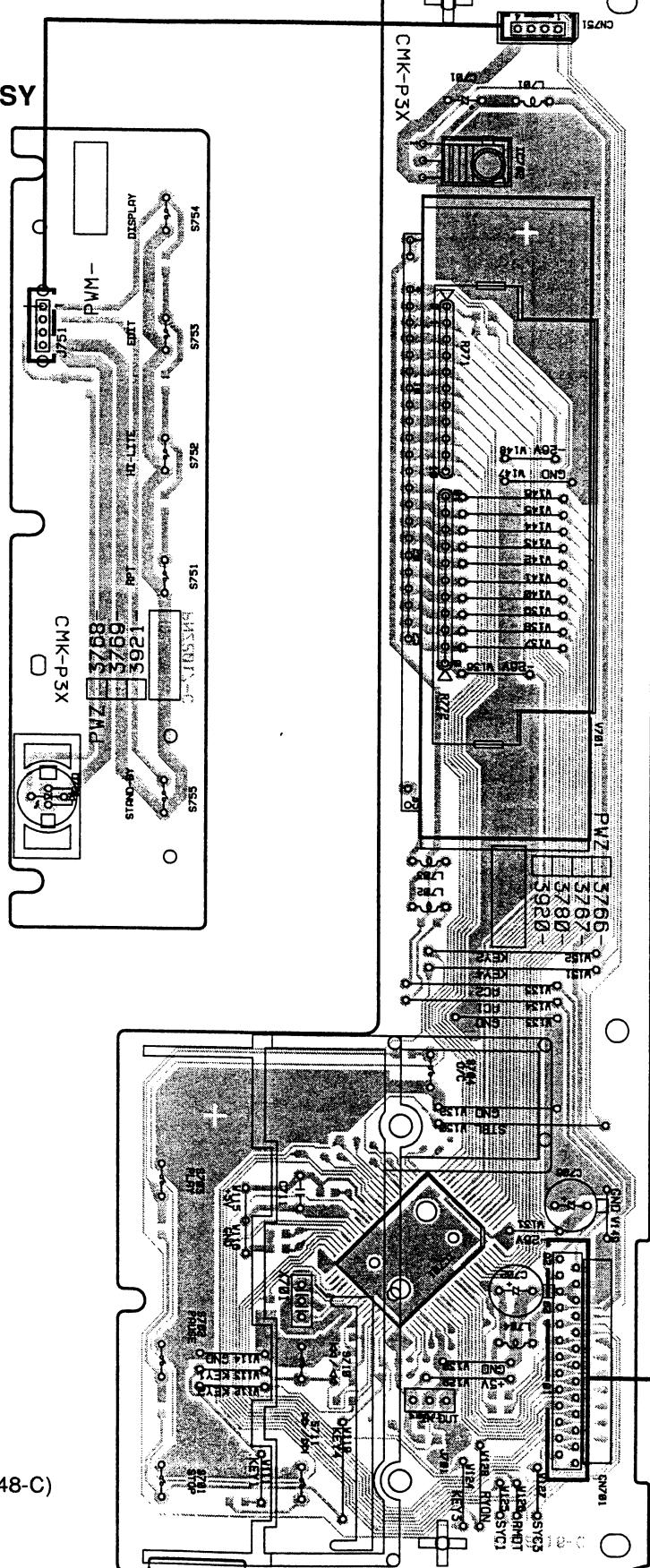


4.4 SWITCH BOARD ASSY and MODE BOARD ASSY

SIDE A

F SWITCH BOARD ASSY

G MODE BOARD ASSY



IC702

IC701

→ B
CN351

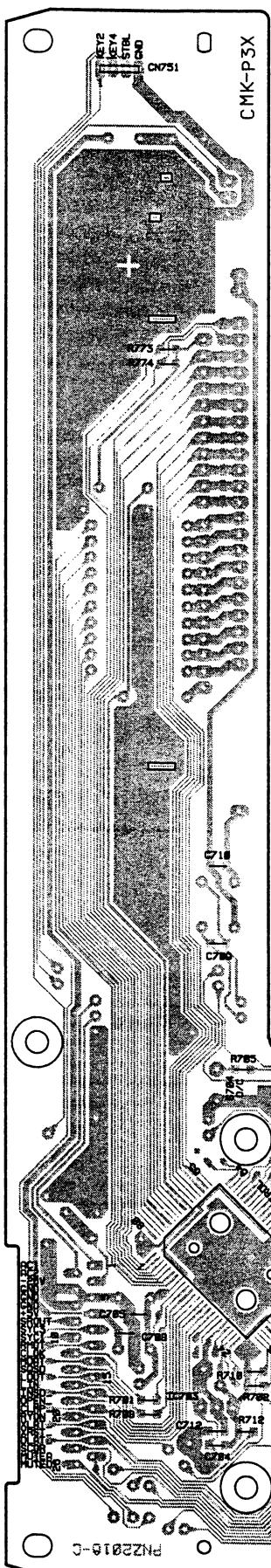
(PNP1448-C)

22

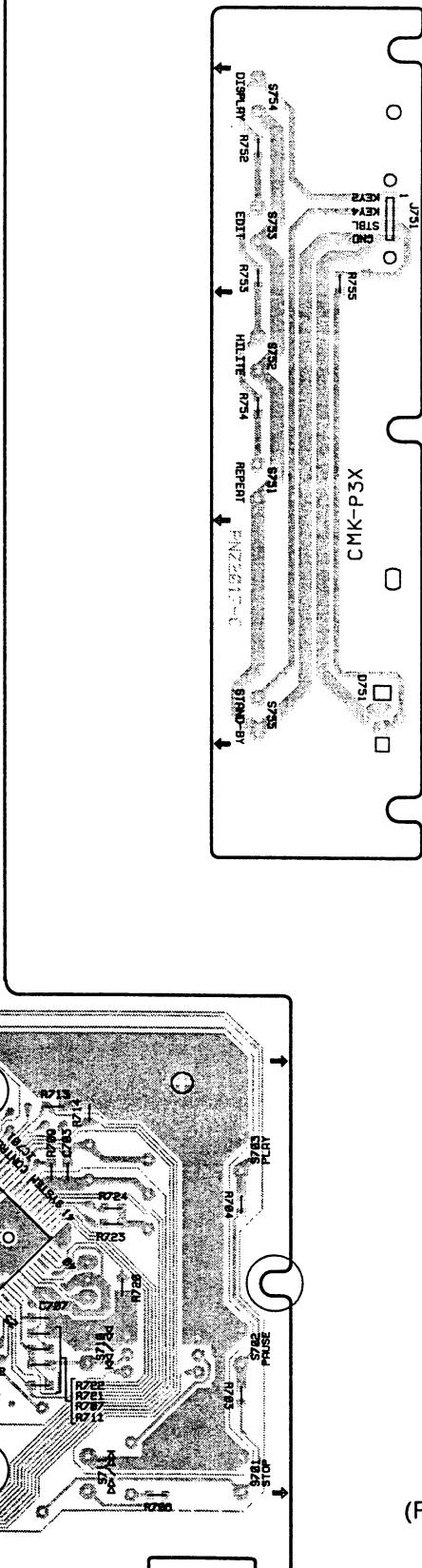
F G

SIDE B

F SWITCH BOARD ASSY



G MODE BOARD ASSY



(PN#1448-C)

F G

5. PCB PARTS LIST

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

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

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

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

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

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

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

$1 \Omega \rightarrow 1R0$ RS1P 1 R 0 K

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

$5.62k \Omega \rightarrow 562 \times 10^1 \rightarrow 5621$ RN1/4PC 5 6 2 1 F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.		Remarks
		MYXK	MVXK	
NSP	MOTHER BOARD ASSY	PWM2240	PWM2241	
	MAIN BOARD ASSY	PWZ3762	PWZ3763	
	POWER BOARD ASSY	PWZ3770	PWZ3770	
	SWITCH BOARD ASSY	PWZ3766	PWZ3766	
	MODE BOARD ASSY	PWZ3768	PWZ3768	
	PHONE BOARD ASSY	PWZ3773	PWZ3773	
	COAXIAL BOARD ASSY	Not used	PWZ3775	MVXK Only
NSP	LOADING MECHANISM ASSY T96	PXA1604	PXA1604	
	SERVO MECHA BOARD ASSY T96	PXA1606	PXA1606	
	MECHANISM BOARD ASSY	PWX1192	PWX1192	

■ CONTRAST OF PCB ASSEMBLIES

MAIN BOARD Assy

PWZ3762 and PWZ3763 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		PWZ3762	PWZ3763	
	R 321 R 322 R 323 CN 331(3P JUMPER CONNECTOR)	RS1/10S102J RS1/10S0R0J RS1/10S152J Not used	RS1/10S471J RS1/10S152J RS1/10S302J 52147-0310	

■ PARTS LIST FOR PD-S507/MVXK

Mark No.	Description	Part No.
----------	-------------	----------

MOTHER BOARD ASSY**OTHERS**

PC Board (MOTHER) PNP1448

B MAIN BOARD ASSY**SEMICONDUCTORS**

IC151	CXA1782CQ
IC301	CXD2507AQ
△ IC33, IC34	ICP-N10
△ IC201	LA6517
△ IC202	LA6520
IC406	M5218AP
IC461	NJM2930L05
IC405	NJM4558D-D
IC302	NJM4565M
IC341	PD0236AM
△ IC401	PE8001A
△ IC20	PQ05RA1
Q151	2SA854S
Q391	2SC1740S
△ Q23	2SC3068
Q403, Q404	2SD2144S
Q152, Q22, Q451	DTA124EK
Q21, Q405, Q452	DTC124EK
D397, D497, D498	1SS355
D406– D409	DA204K
D395	DAP202K
D1496	S5566G(TPB2)
D23	UDZS5.6B
D218	UDZS6.8B

COILS AND FILTERS

L151, L301 (RADIAL INDUCTOR)	LFA100J
L303 (RADIAL INDUCTOR)	LFA151J
L393 (RADIAL INDUCTOR)	LFA1R0J
△ L395, L396 (RADIAL INDUCTOR)	LFA1R0J
L321 (COIL 0.15mH)	RTF1168
L21 (Noise filter)	RTF1167

CAPACITORS

C181	CCSQCH100D50
C318	CCSQCH101J50
△ C395, C396	CCSQCH101J50
C407, C408	CCSQCH101J50
C403	CCSQCH240J50
C404	CCSQCH300J50
C410	CEGA470M25
C23, C414, C415	CEGA4R7M50
C309	CFTLA474J50
C163, C401	CKSQYB102K50
C156, C159, C161, C164, C168	CKSQYB103K50
C191, C192, C308	CKSQYB103K50
C153- C155, C158, C320	CKSQYB104K25
C176, C218, C306	CKSQYB152K50
C221, C222	CKSQYB182K50
C315	CKSQYB221K50
C162	CKSQYB332K50
C160	CKSQYB333K50
C167	CKSQYB472K50

Mark	No.	Description	Part No.
	C152, C307		CKSQYB473K50
	C151		CKSQYB682K50
	C157		CKSQYB823K25
	C172, C185, C205, C210, C215		CKSQYF103Z50
	C219, C24, C305, C316, C325		CKSQYF103Z50
	C343, C344, C409, C421		CKSQYF103Z50
	C22, C28, C310– C312, C321		CKSQYF104Z25
	C342, C412, C413, C416, C417		CKSQYF104Z25
	C351		CKSQYF473Z50
△	C175, C301, C302		CQMA154Z50
△	C441, C442		CQMBA102J50
△	C497, C498		CQMBA103J50
	C435– C440		CQMBA152J50
	C25, C26 (4700 μ F/16V)		PCH1119
	C303, C341, C411(1000 μ F/16V)		PCH1122
	C429, C430 (47 μ F/50V)		PCH1124
	C171, C432, C433 (100 μ F/50V)		PCH1126
	C169, C170, C474, C475 (4.7 μ F/50V)		PCH1127
	C131, C200, C201, C211, C212 (220 μ F/25V)		PCH1128
	C216, C217, C27, C322, C444 (220 μ F/25V)		PCH1128
	C446, C461, C496 (220 μ F/25V)		PCH1128
	R496		RD1/2VM152J
	R163, R164, R470, R471		RD1/4VM470J
	R1447– R1450		RD1/4VM471J
	R451, R452		RDR1/2PM101J
	R433– R436		RN1/10SE1002D
	R431, R432		RN1/10SE2702D
	VR153, VR155 (10k Ω - B)		VCP1156
	VR151, VR152, VR154 (22k Ω - B)		VCP1158
	VR156 (220k Ω - B)		VCP1164
	Other Resistors		RS1/10S000J

RESISTORS

CN202	MT 4P CONNECTOR	173981-4
CN205	MT 5P CONNECTOR	173981-5
CN331	3P JUMPER CONNECTOR	52147-0310
CN501	4P JUMPER CONNECTOR	52147-0410
CN351	26P FFC CONNECTOR	HLEM26S-1
JA321	OPTICAL LINK OUT	GP1F32T
CN11	7P JUMPER CONNECTOR	KPD7
JA401	2P JACK	PKB1O23
JA393	JACK	PKN1O05
X401	XTAL RES (16.9344 MHz)	PSS1O08
CN201	CONNECTOR 6P	RKP1533
CN131	CONNECTOR	SLW16S-1C7
	PCB BINDER	VEF1O40

E POWER BOARD ASSY**SEMICONDUCTORS**

△	Q51	2SC1815
△	Q52, Q53	2SC3068
	Q54	2SC3068
	Q55, Q56	DTC124EK
	D56	1SS355
△	D11– D14, D52	S5566G(TPB2)
	D53	UDZS5.6B
	D54, D55	UDZS6.2B
	D57	UDZS6.8B

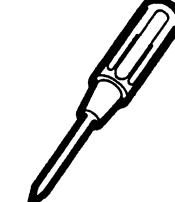
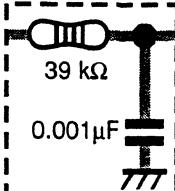
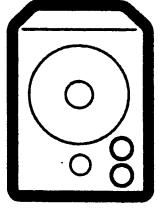
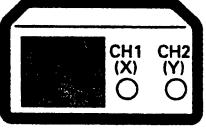
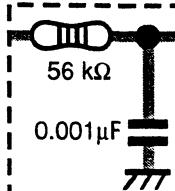
Mark No.	Description	Part No.
COILS AND FILTERS		
L1110 (FERRITE BEADS)		PTH1014
L1108 (FERRITE BEADS)		PTH1016
CAPACITORS		
C53		CEGA4R7M50
C18, C19		CEZA2R2M50
C51		CEZA470M25
C34		CKSQYF103Z50
⚠ C11, C15- C17		CKSQYF473Z50
C1012, C1020		CQMBA103J50
C52 (100 μ F/50V)		PCH1126
RESISTORS		
R52, R53		RD1/2VM102J
R15		RD1/4VM100J
Other Resistors		RS1/10S000J
OTHERS		
⚠ TP52	1P TERMINAL	RKC-059
	TERMINAL	RKC-061
	PCB BINDER	VEF1040
	7P CABLE HOLDER	51052- 0700
J11	7P JUMPER WIRE	DYY07-200-2651
F SWITCH BOARD ASSY		
SEMICONDUCTORS		
IC701		PD4998B
IC703		PST572E
COILS AND FILTERS		
L701		LFA100J
L704		LFA151J
L702, L703		LFA1R0J
SWITCHES		
S701-S704, S710, S711		ASG1034
CAPACITORS		
C711		CFTLA104J50
C701, C706		CFTLA274J50
C703- C705, C707- C710		CKSQYF103Z25
C702 (220 μ F/25V)		PCH1128
RESISTORS		
All Resistors		RS1/10S000J
OTHERS		
CN751	4P JUMPER CONNECTOR	52151-0410
	REMOTE RECEIVER UNIT	GP1U27X
CN701	26P FFC CONNECTOR	HLEM26R-1
V701	FL INDICATOR TUBE	PEL1085
X701	CERAMIC RESONA(4.19 MHz)	VSS1028
G MODE BOARD ASSY		
SEMICONDUCTORS		
D751	LED (RED)	PCX1019
SWITCHES		
S751-S755		ASG1034

Mark No.	Description	Part No.
RESISTORS		
All Resistors		RS1/10S000J
OTHERS		
J751	4P CABLE HOLDER 4P JUMPER WIRE	51048-0400 D20PDY0410E
C PHONE BOARD ASSY		
COILS AND FILTERS		
⚠ L502, L503	(Coil 1 μ H)	LFA1R0J
⚠ L504	(Noise filter)	RTF1167
CAPACITORS		
⚠ C501		CKSQYF103Z25
RESISTORS		
VR501 (500 Ω -B)		RCV1123
OTHERS		
J501	4P CABLE HOLDER 4P JUMPER WIRE	51048-0400 D20PDY0406B
JA501	JACK	RKN1002
A MECHANISM BOARD ASSY		
SWITCHES		
S610		DSG1D16
OTHERS		
CN610	MT CONNECTOR 4P	173979-4
D COAXIAL BOARD ASSY		
SEMICONDUCTORS		
IC331		TC74HCU04F
COILS AND FILTERS		
L334 (COIL)		PTL1003
CAPACITORS		
⚠ C335		CEAT470M25
⚠ C339		CKSQYF103Z25
C334, C336		CKSQYF104Z25
C333 (220 μ F/25V)		PCH1128
RESISTORS		
All Resistors		RS1/10S000J
OTHERS		
J331	3P CABLE HOLDER 3P JUMPER WIRE	51048D300 D20PDY0310E
JA331	1P JACK	RKB1019

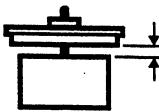
6. ADJUSTMENT

6.1 PREPARATIONS

6.1.1 Jigs and Measuring Instruments

				 39 kΩ 0.001µF
	 (size: 1.5mm) GGK1002		 CH1 (X) CH2 (Y)	 56 kΩ 0.001µF

6.1.2 Necessary Adjustment Points

When	Adjustment points
Exchange PICKUP	1.2.3.4.5.6.7. 8.9.10.11.12 → Page 29 - 34
Exchange MAIN BOARD ASSY	1.3.5.6.7.8. 9.10.11.12 → Page 29 - 34
Exchange SERVO MECH ASSY	1.2.3.4.5.6.7. 8.9.10.11.12 → Page 29 - 34
Exchange SPINDLE MOTOR	 ↓ ADJ → Page 8

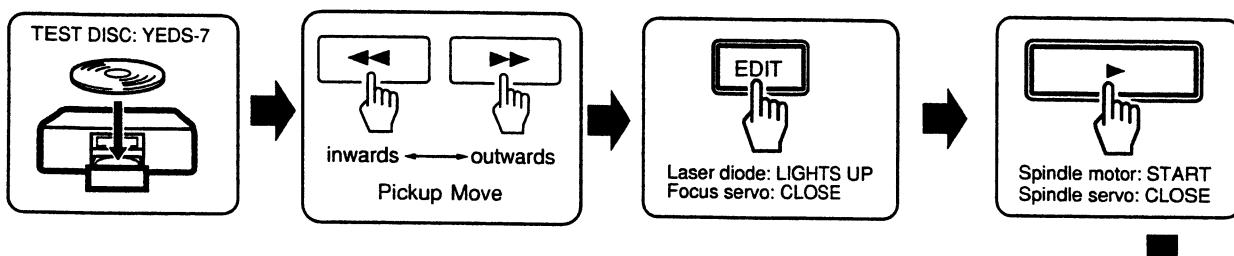
6.2 ADJUSTMENT

6.2.1 How to Start/Cancel Test Mode

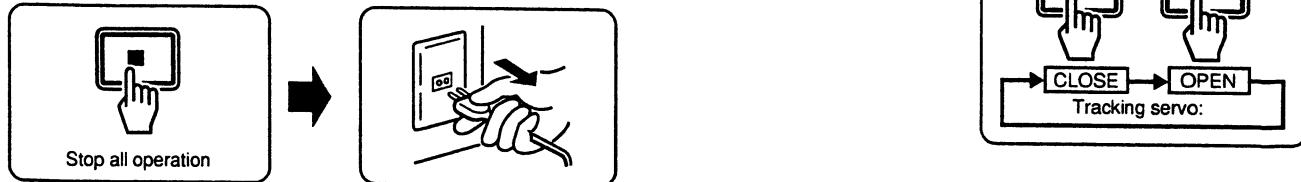
TEST MODE : ON



TEST MODE : PLAY

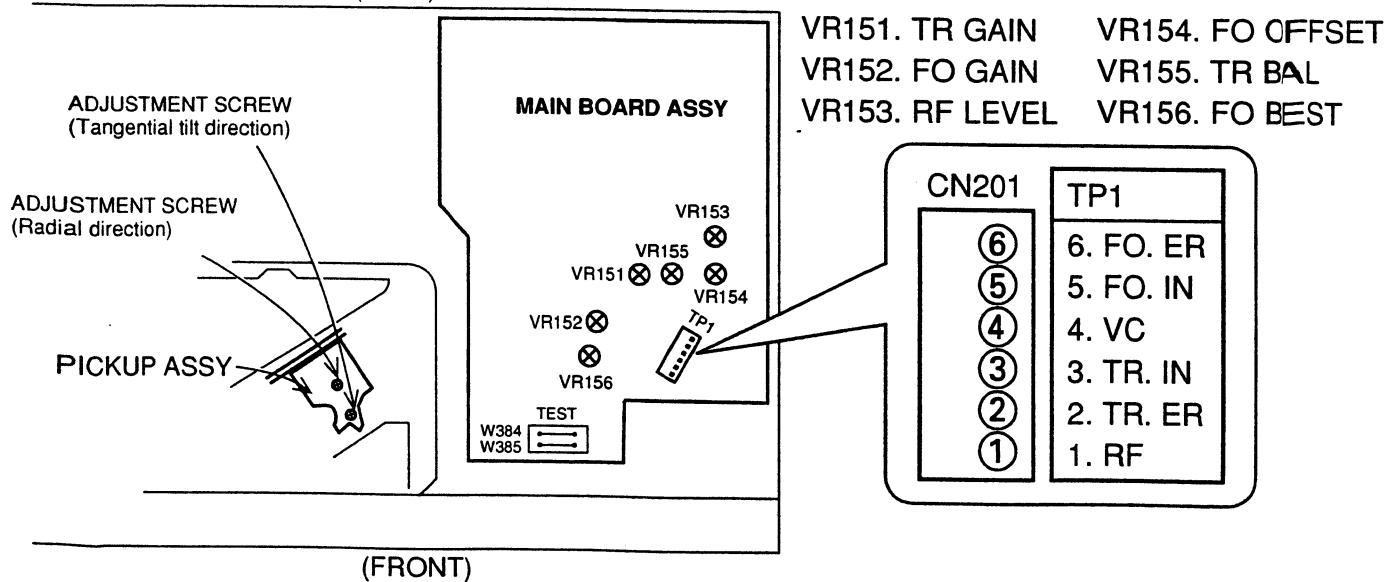


TEST MODE : STOP → CANCEL



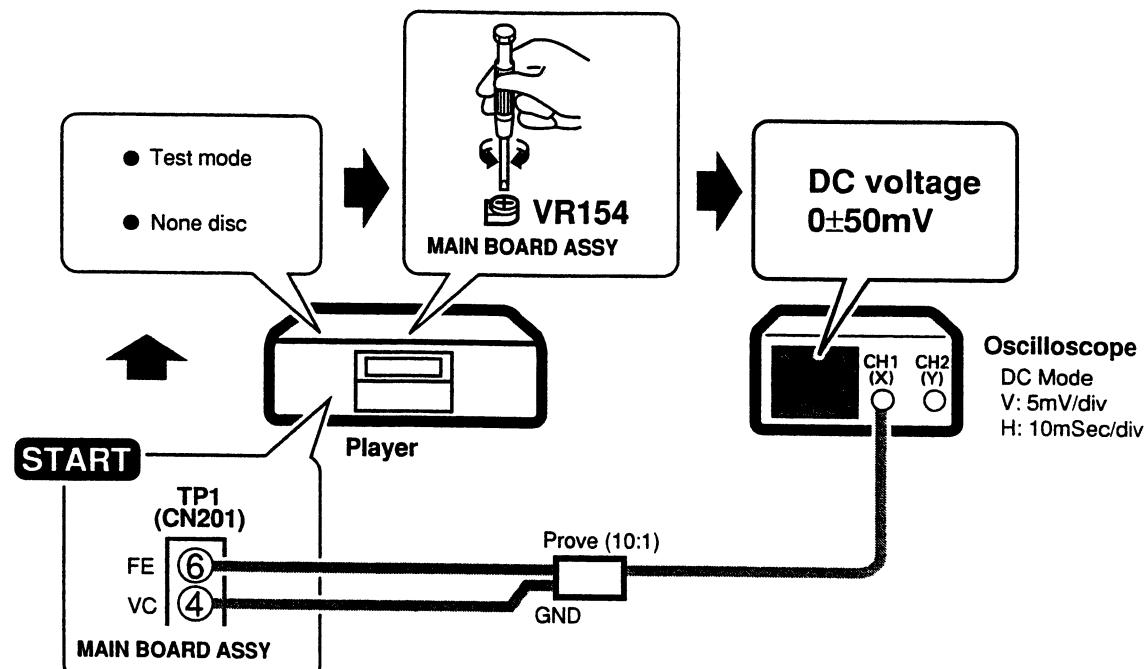
6.2.2 Adjustment Location

(REAR)

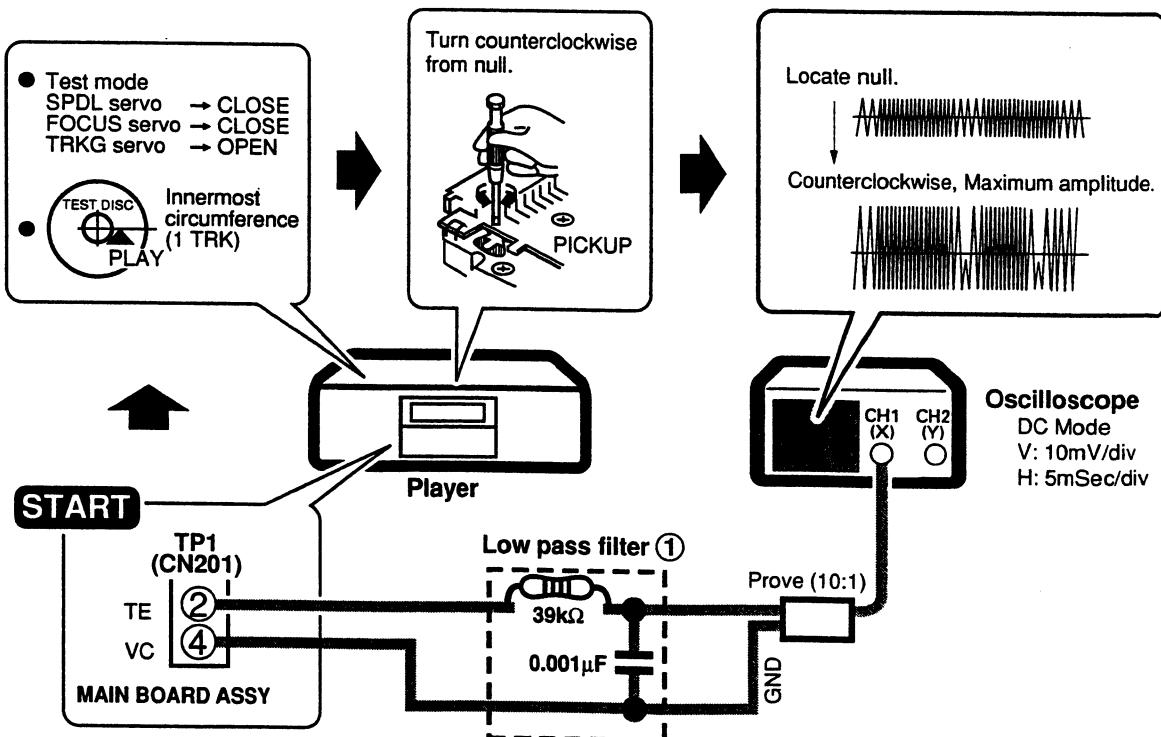


6.2.3 Check and Adjustment

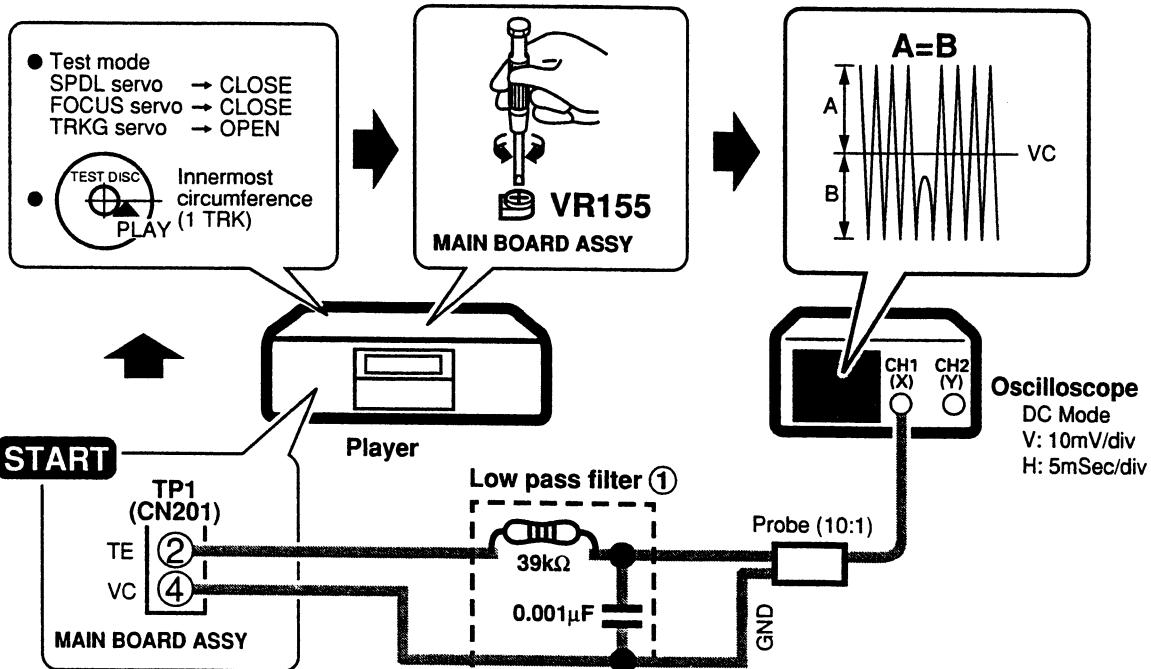
1. Focus Offset Adjustment



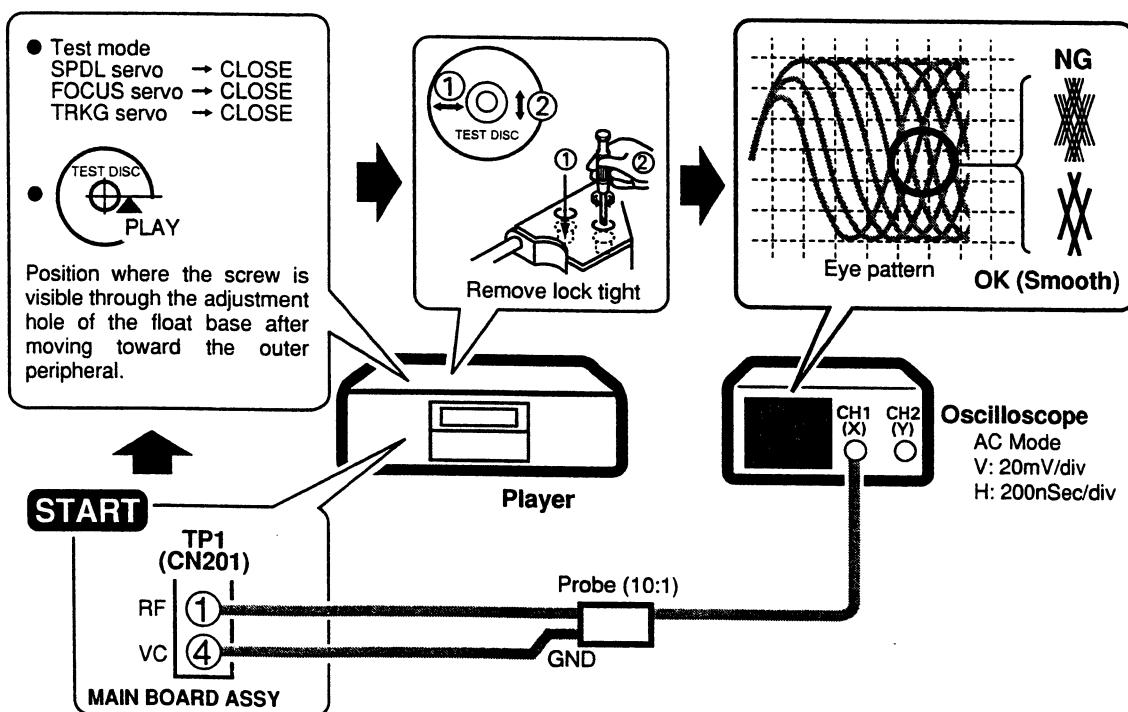
2. Grating Adjustment



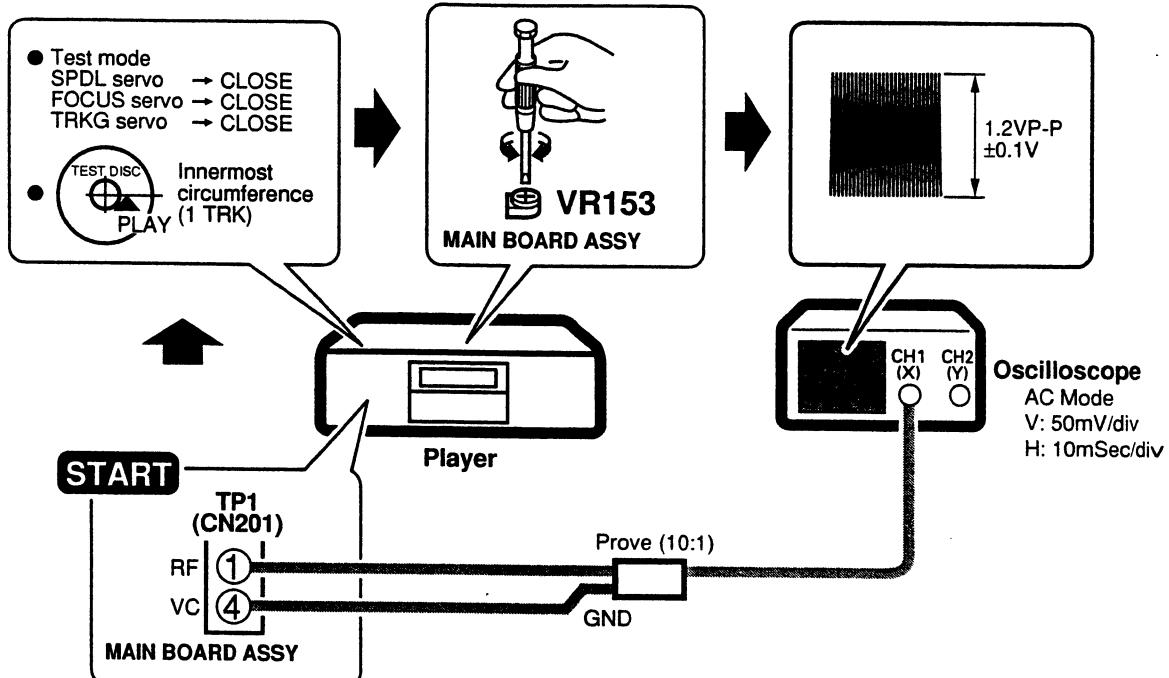
3. Tracking Error Barance Adjustment



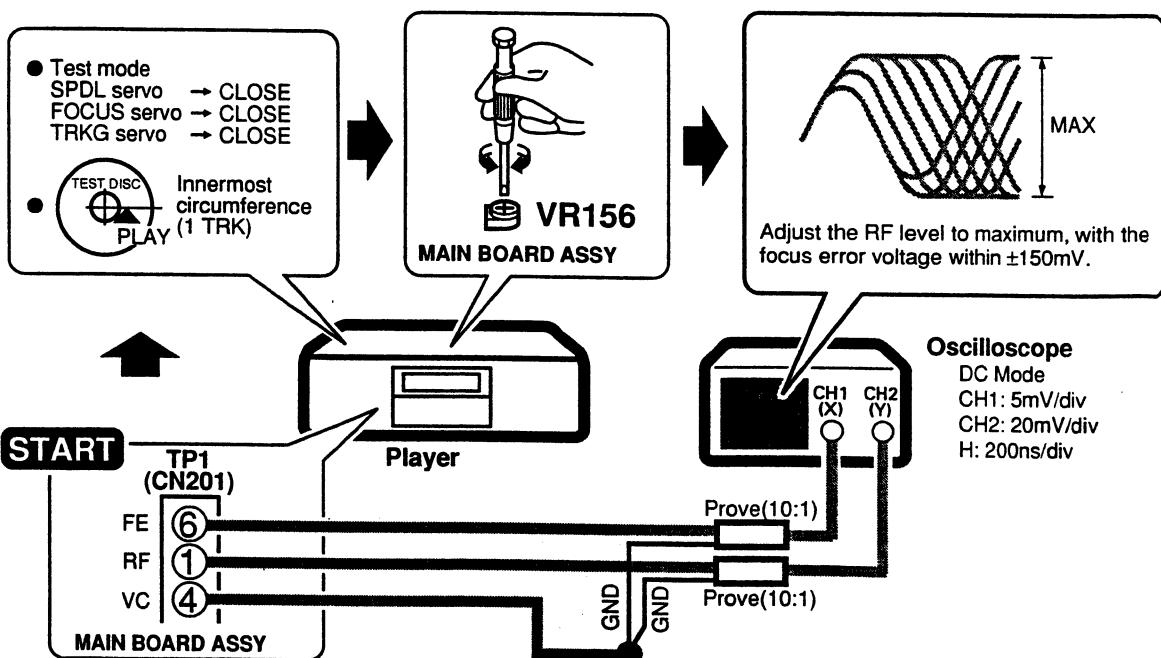
4. Pickup ①Radial/ ②Tangential Direction Tilt Adjustment



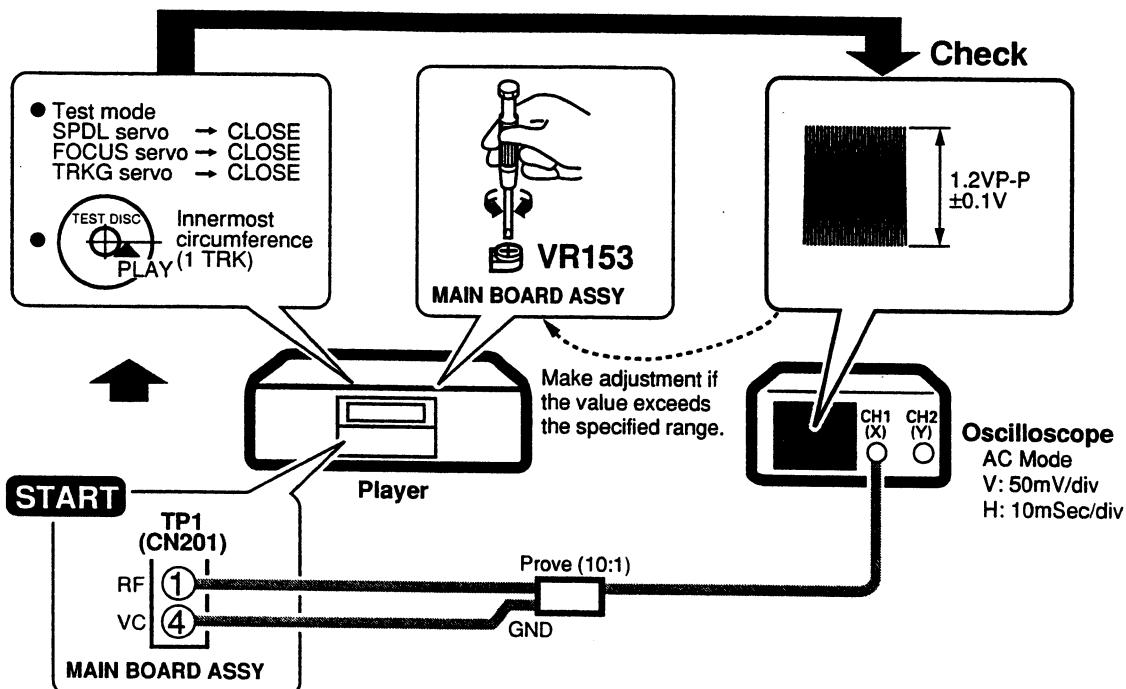
5. RF Level Adjustment I



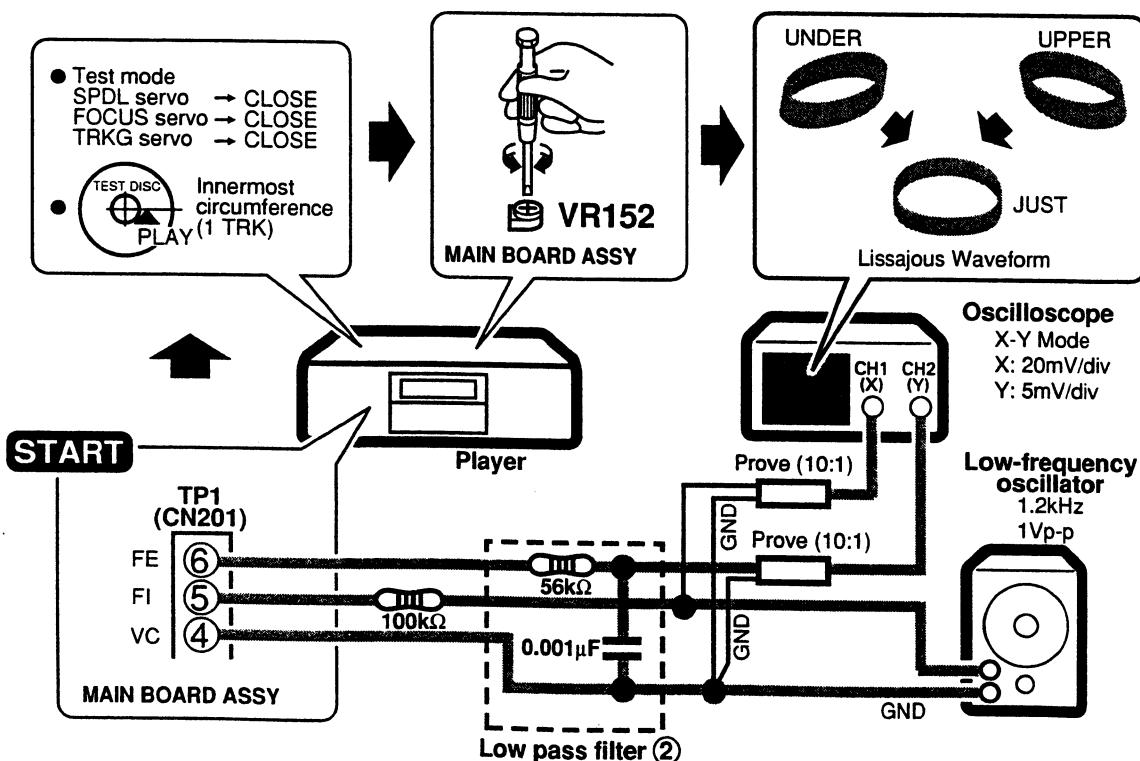
6. Focus Best Adjustment I



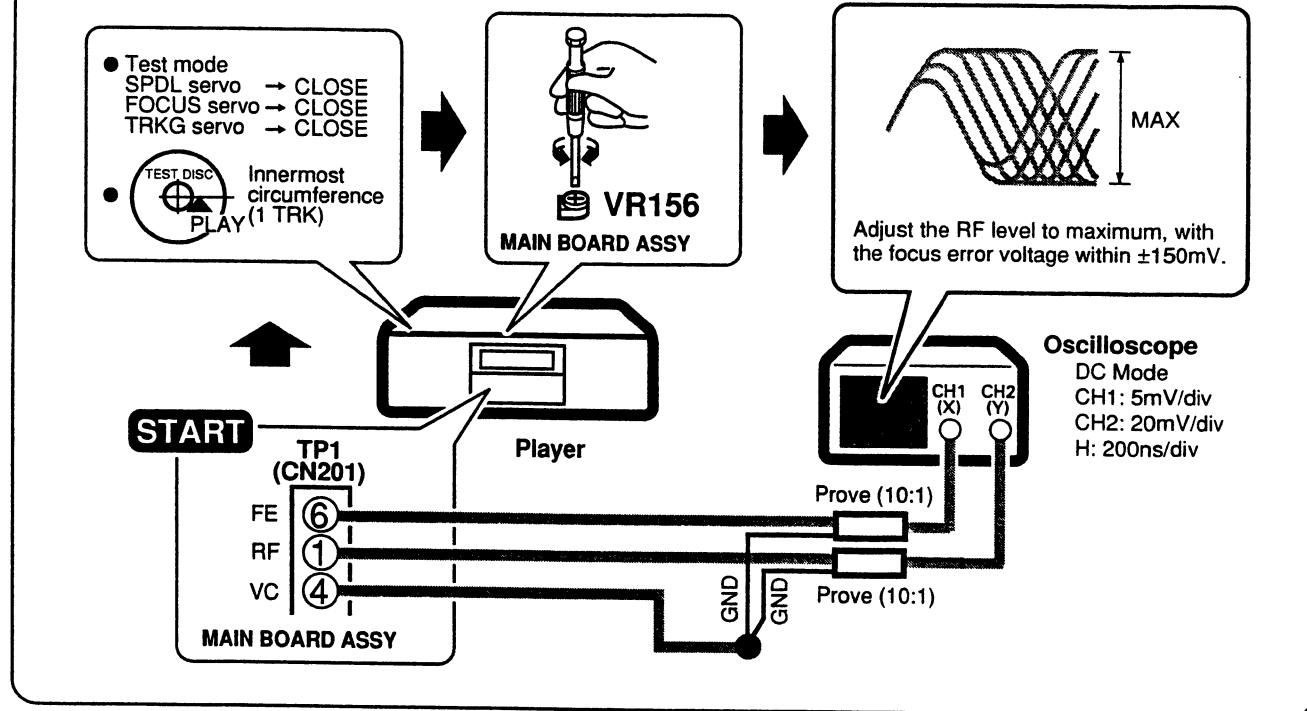
7. RF Level Adjustment Ⅱ



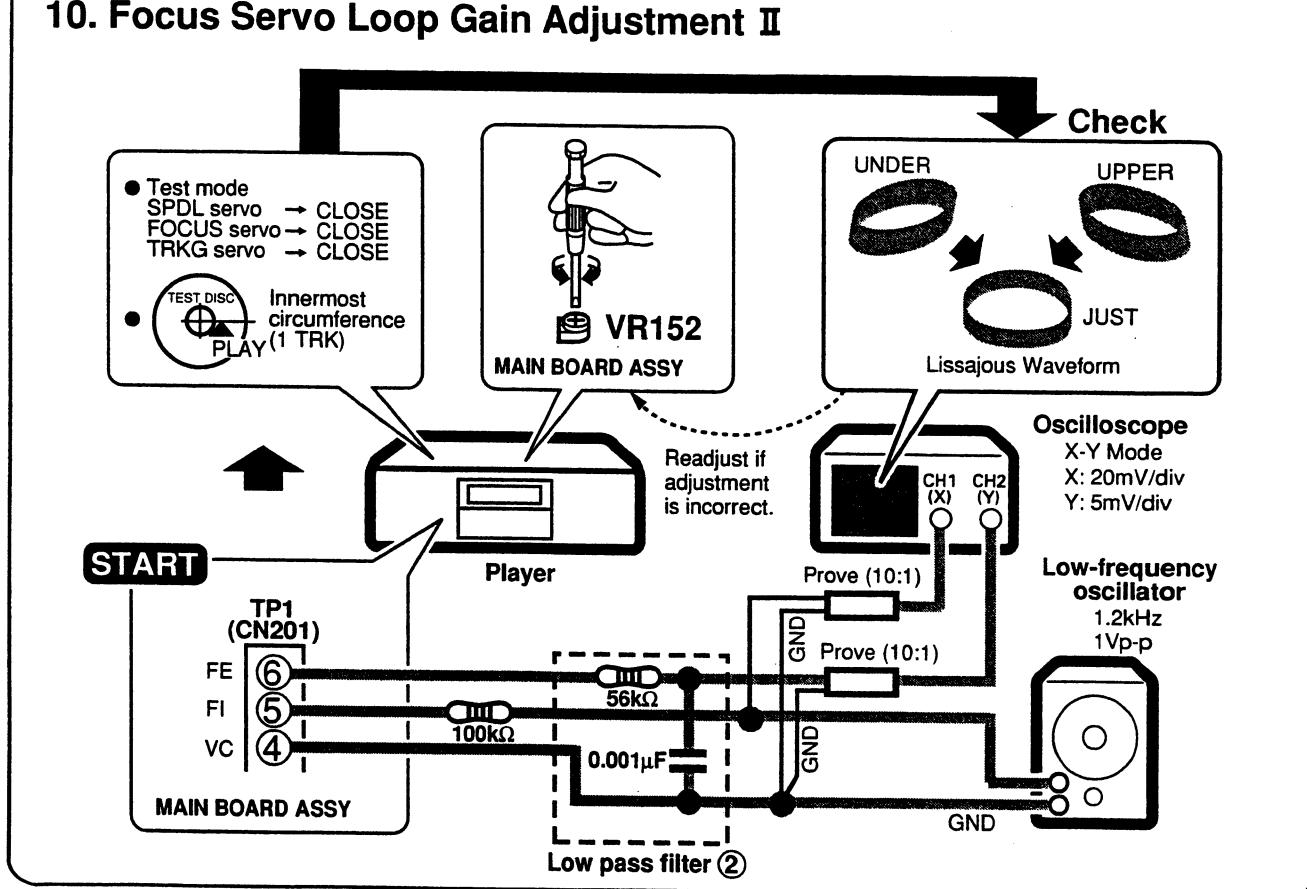
8. Focus Servo Loop Gain Adjustment I



9. Focus Best Adjustment II

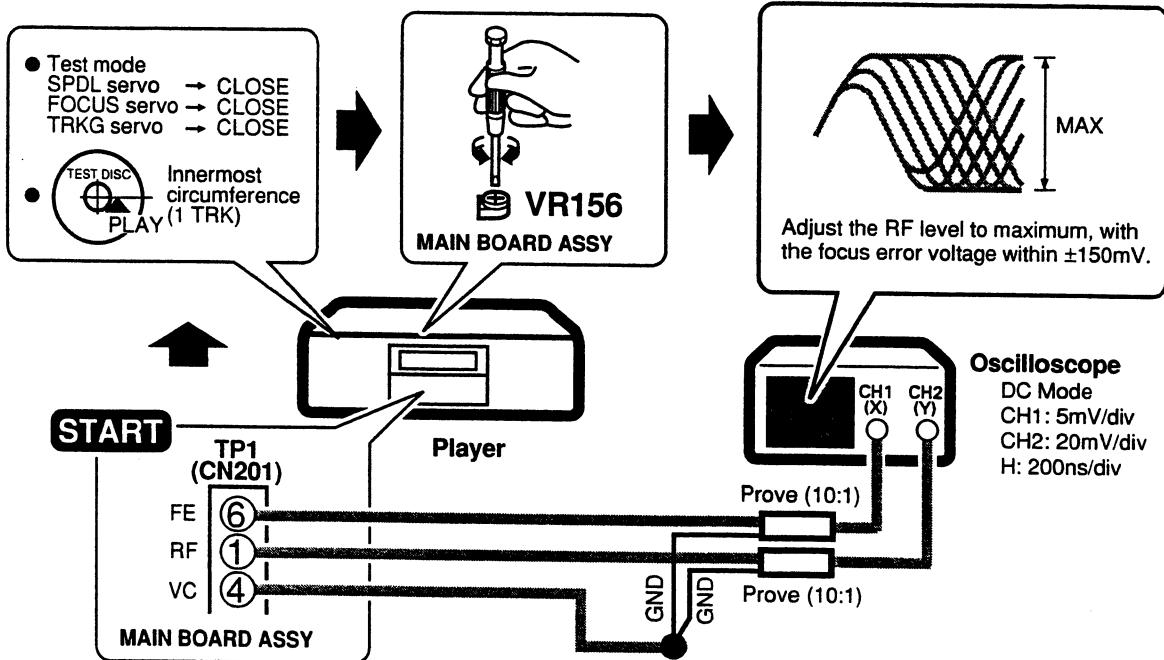


10. Focus Servo Loop Gain Adjustment II

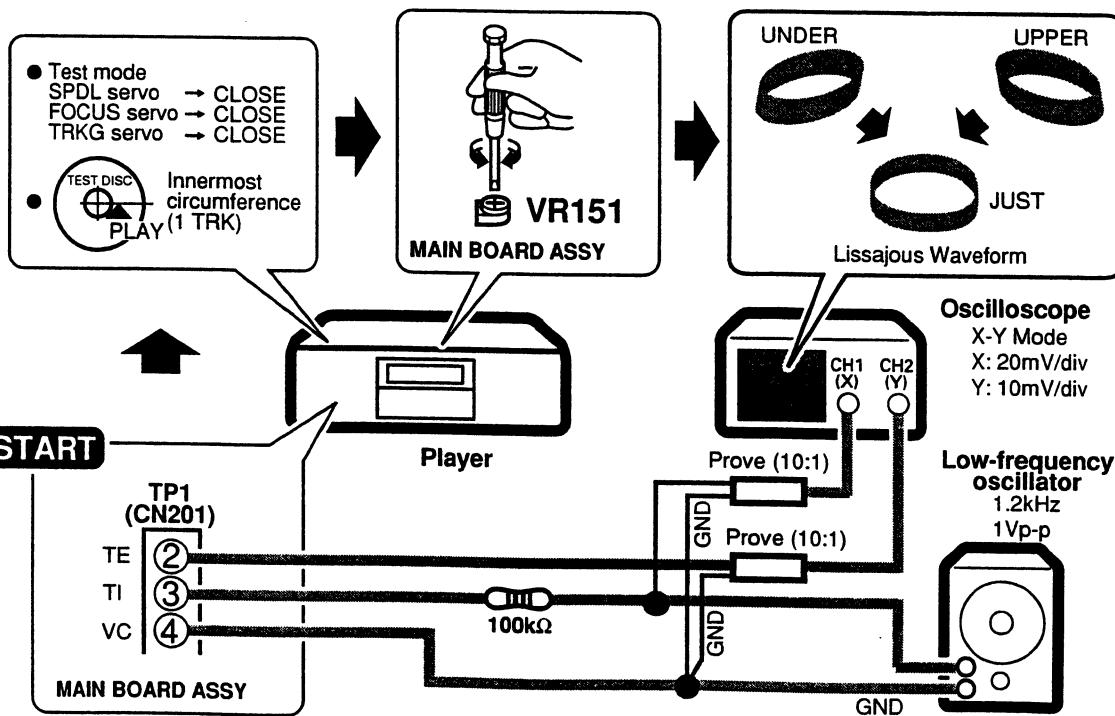


11. Focus Best Adjustment III

Adjust this point only if adjustment was made in item 10.



12. Tracking Servo Loop Gain Adjustment



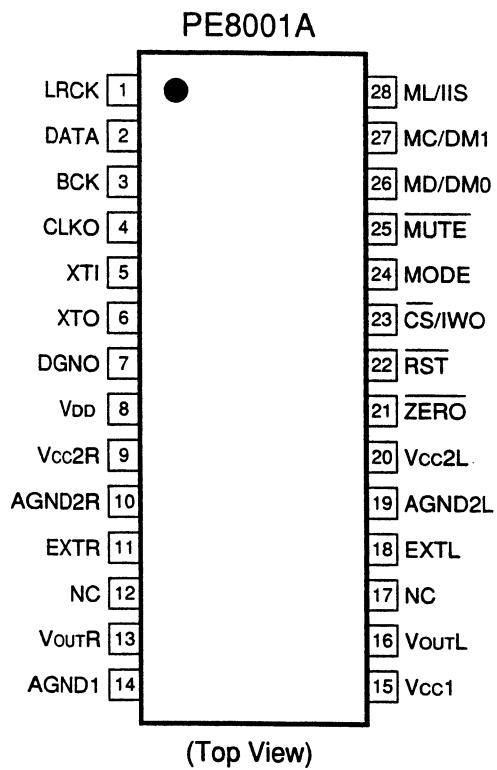
7. GENERAL INFORMATION

7.1 IC

■ PE8001A (IC401: MAIN BOARD ASSY)

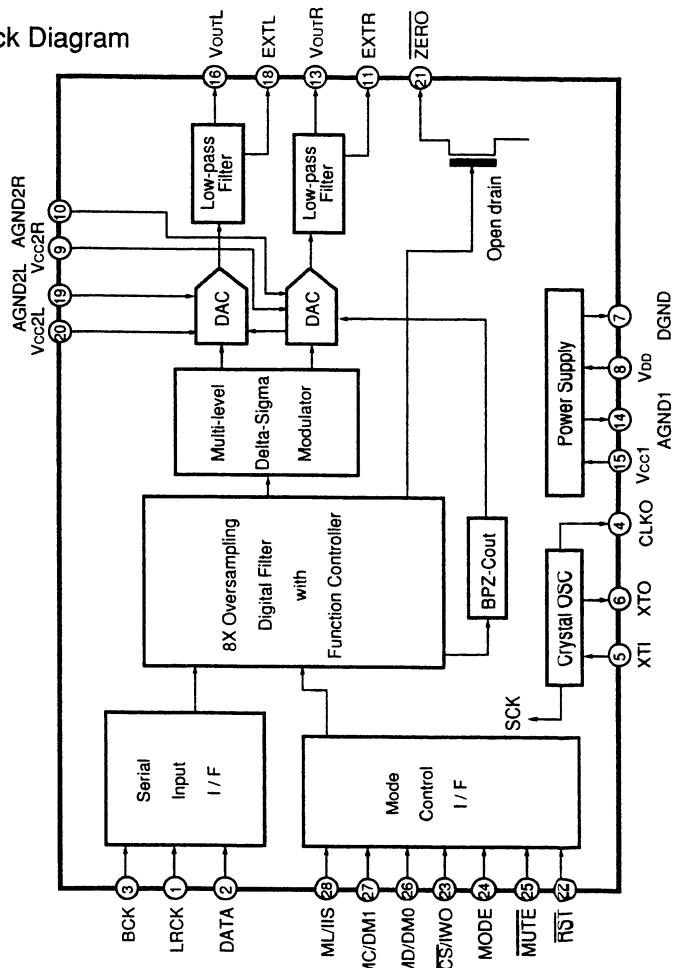
■ D/A CONVERTER IC

- Pin Arrangement



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

● Block Diagram



● Pin Function

No.	Name	I/O	Description
1	LRCK	I	LRCK Clock Input (fs)
2	DATA	I	Serial Audio Data Input
3	BCK	I	Data bit clock Input
4	CLKO	O	Buffer output of System clock.
5	XTI	I	Oscillator Input / External clock Input
6	XTO	O	Oscillator Output
7	DGND	-	Digital GND
8	Vdd	-	+5V Digital Power Supply
9	Vcc2R	-	+5V Analog Power Supply
10	AGND2R	-	Analog GND
11	EXTR	O	Rch, Common Pin of Analog output Amp.
12	NC	-	Not connect
13	VoutR	O	Rch, Analog Voltage output of Audio signal
14	AGND1	-	Analog GND

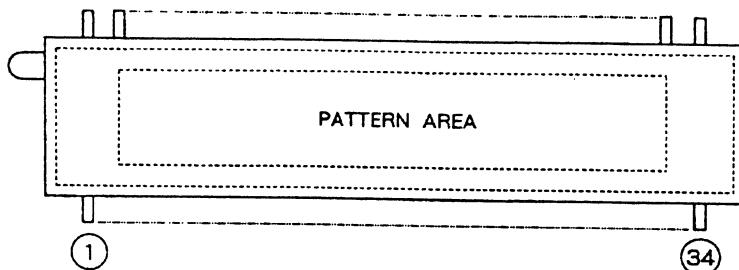
No.	Name	I/O	Description
15	Vcc1	-	+5V Analog Power Supply
16	VoutL	O	Lch, Common Pin of Analog output Amp.
17	NC	-	Not connect
18	EXTL	O	Lch, Analog Voltage output of Audio signal
19	AGND2L	-	Analog GND
20	Vcc2L	-	+5V Analog Power Supply
21	ZERO	O	Zerodata. flag
22	RST	I	Reset. "L" at reset DF and modulator
23	CS/IWO	I	Chip select / Input format. select
24	MODE	I	Mode control select (H: Software, L: Hardware)
25	MUTE	I	Mute control
26	MD/DM0	I	Mode control data / De-emphasis selection
27	MC/DM1	I	Mode control BCK / De-emphasis selection
28	ML/IIS	I	Mode control WDEK / Input formats selection

7.2 DISPLAY

■ PEL1085 (V701: SWITCH BOARD ASSY)

■ FL INDICATOR TUBE

● Pin Assignment



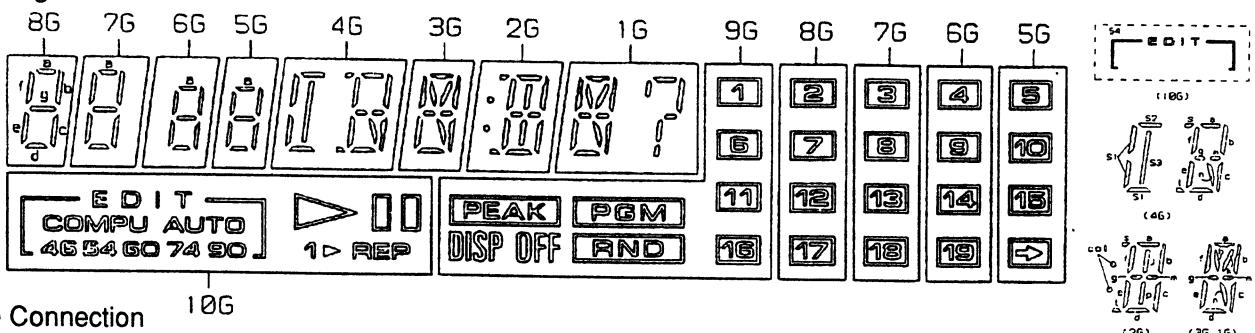
NOTE

- 1) F1, F2.....Filament
- 2) NP.....No pin
- 3) NX.....No extend pin
- 4) DL.....Datum Line
- 5) 1G - 10G.....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	P	P	P	P	P	P	P	P	P	P	P	P	P	1	9	8	7	6	5	4	3	2	1	N	N	N	N	N	N	N	N	F
	1	2	P	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		

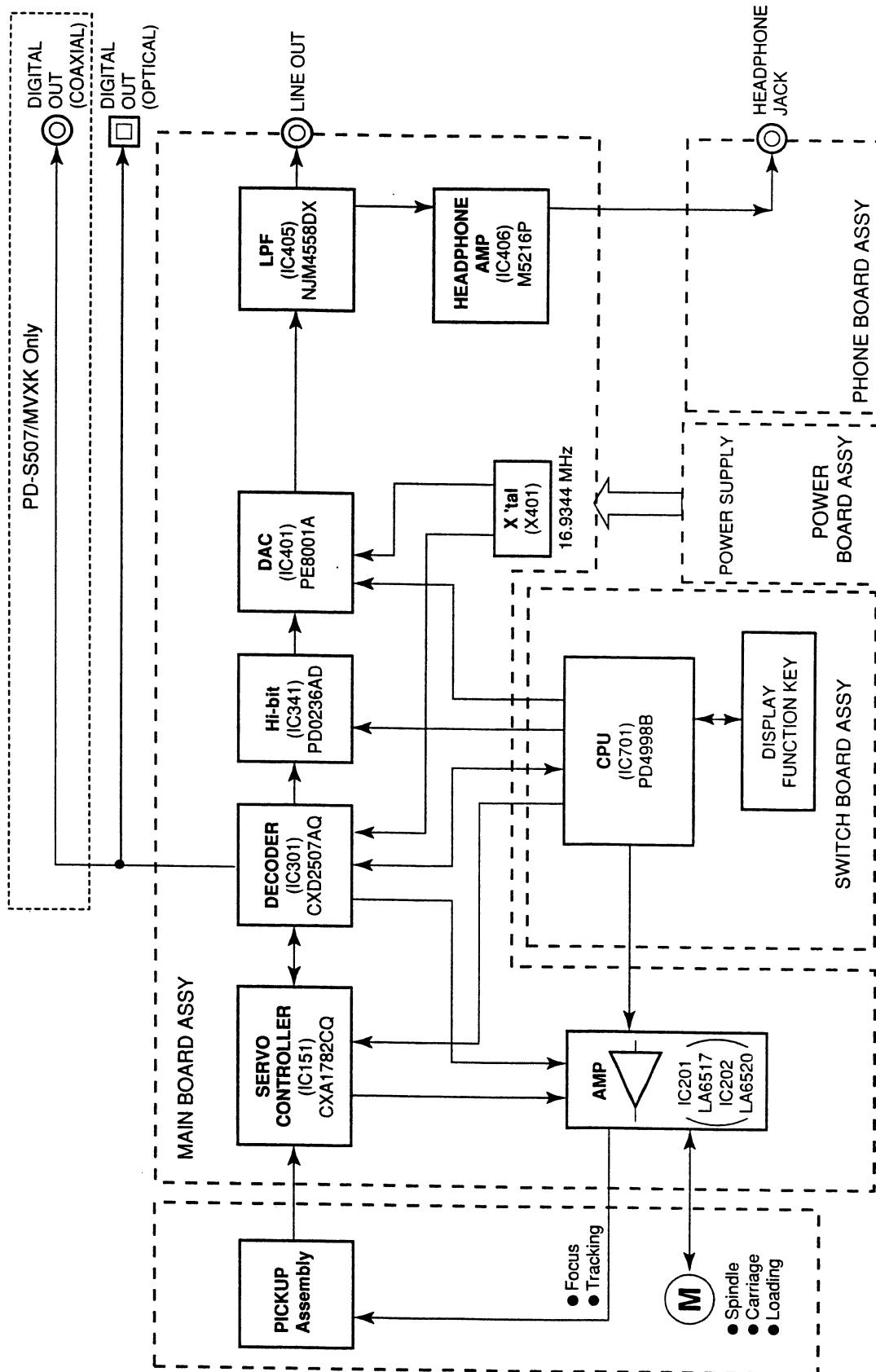
● Grid Assignment



● Anode Connection

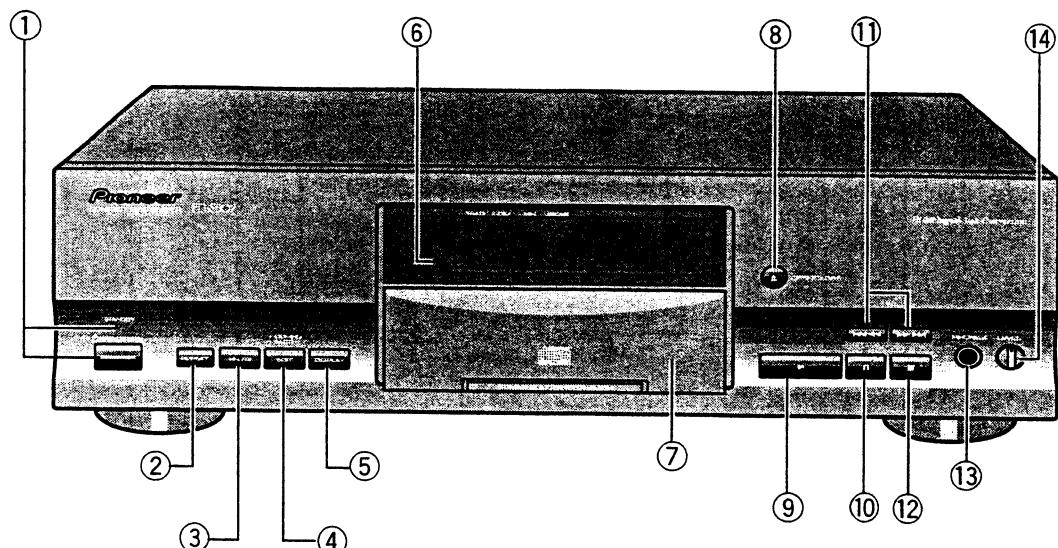
	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	46	RND	e	e	e	e	e	e	e	e
P2	54	PGM	f	f	f	f	f	f	f	f
P3	GO	PEAK	g	g	g	g	g, m	g, m	g, m	g
P4	1>	DISP OFF	-	-	-	-	s, t	-	s, t	m
P5	74	-	a	a	a	a	a	a	a	a
P6	SO	-	b	b	b	b	b	b	b	b
P7	AUTO	-	c	c	c	c	c	c	c	c
P8	COMPU	-	d	d	d	d	d	d	d	d
P9	S4	1	2	3	4	5	S2	h	col	h
P10	▶	6	7	8	9	10	S3	k	j, p	k
P11		11	12	13	14	15	n	n	-	n
P12	REP	16	17	18	19	10	S1	-	-	7

7.3 BLOCK DIAGRAM



8. PANEL FACILITIES AND SPECIFICATIONS

■ PANEL FACILITIES



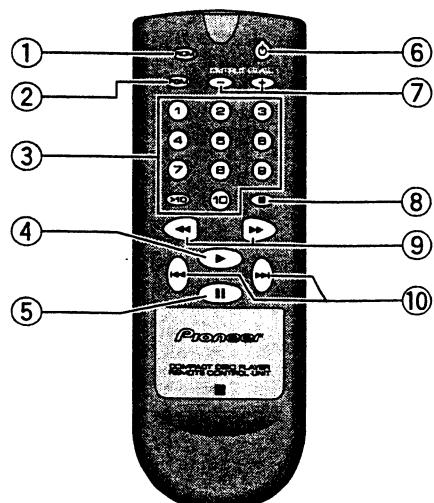
FRONT PANEL

- ① Ⓛ STANDBY/ON switch and STANDBY indicator
- ② REPEAT button
- ③ HI-LITE button
- ④ COMPU/AUTO EDIT button
(- COMPU/- AUTO)
- ⑤ DISPLAY button
- ⑥ Remote sensor
Receives the signal from the remote control unit.
- ⑦ Disc tray
- ⑧ OPEN/CLOSE button (▲)
- ⑨ Play button (▶)
- ⑩ Pause button (II)
- ⑪ Track/Manual search buttons
(◀◀◀◀/▶▶▶▶)
- ⑫ Stop button (■)
- ⑬ Headphones jack
- ⑭ Headphones volume control (LEVEL)

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 Random play button (RDM)
- ② Program button (PGM)
- ③ Track number/Digit buttons (1 - 10, >10)
- ④ Play button (▶)
- ⑤ Pause button (II)
- ⑥ Power standby/on button (⌚)
- ⑦ OUTPUT LEVEL buttons (-/+)
- ⑧ Stop button (■)
- ⑨ Manual search buttons (◀◀/▶▶)
- ⑩ Track search buttons (◀◀◀◀/▶▶▶▶)



REMOTE CONTROL UNIT

■ SPECIFICATIONS

1. General

Type	Compact disc digital audio system
Power requirements	AC 220 - 230 V, 50/60 Hz
Power consumption	13 W
Power consumption in standby mode	3 W
Operating temperature	+5°C - +35°C
Weight	3.8 kg
External dimensions	420 (W) X 283 (D) X 112 (H) mm

2. Audio section

Frequency response	2 Hz - 20 kHz
S/N ratio	110 dB or more (EIAJ)
Dynamic range	99 dB or more (EIAJ)
Harmonic distortion	0.002% 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
CD-DECK SYNCHRO jack
Optical digital output jack
Coaxial digital output jack (MVXK model only)
Headphone jack (with volume control)

4. Accessories

• Remote control unit	1
• Size AAA/R03 dry cell batteries	2
• Output cable	1
• Operating instructions	1

NOTE:

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

Accessories

Output cable x 1
(L=1.2m : PDE1248)



Remote control unit x 1
(CU-PD096)



AAA/R03 dry cell batteries x 2



