

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

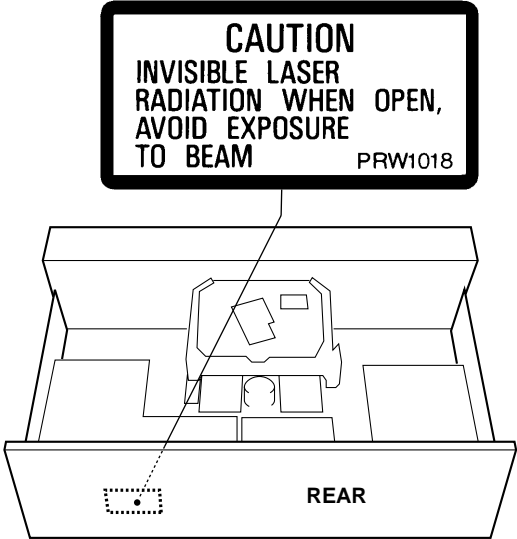
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly 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 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.
 - 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 Ω \rightarrow $56 \times 10^1 \rightarrow$ 561 | RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix} J$ |
| 47k Ω \rightarrow $47 \times 10^3 \rightarrow$ 473 | RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix} J$ |
| 0.5 Ω \rightarrow R50 | RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix} K$ |
| 1 Ω \rightarrow 1R0 | RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix} K$ |
- 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 $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix} F$ |
|---|---|

■ CONTRAST TABLE

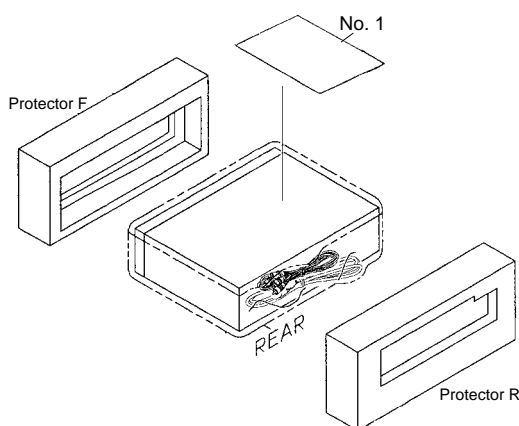
PD-S507/ RD, WPW and MYXK are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			MYXK type	RD type	WPW type	
		PCB ASSEMBLIES				No.1
P5-1	NSP	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	
	NSP	HEADPHONE BOARD ASSY	PWZ3773	PWZ3776	PWZ3776	
		PACKING				
P3-2		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)	Not used	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	
		EXTERIOR				
P5-5	⚠	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

BF 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".

CF HEADPHONE BOARD ASSY

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

EF 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 C12 C13, C34 C18, C19, C33 C51 C52 C53 C1012 C1020 D56 D57 L1108 L1110 Q54 Q55, Q56 R15 R51, R54 R55 R58 R59 S05	CKSQYF103Z50 Not used CKSQYF103Z50 CEZA2R2M50 PCH1124 PCH1126 CEZA4R7M50 CQMA103J50 CQMA223J50 1SS355 UDZS6.8B PTH1016 PTH1014 2SC3068 DTC124EK RD1/4VM100J RS1/10S223J RS1/10S223J RS1/10S471J RS1/10S223J Not used VEF1040	CKSQYF473Z50 CKSQYF473Z50 Not used Not used CEAT330M25 CEAT101M35 Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used RS1/10S473J RS1/10S472J Not used Not used PSB1006 Not used	CKSQYF473Z50 CKSQYF473Z50 Not used Not used CEAT330M25 CEAT101M35 Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used RS1/10S473J RS1/10S472J Not used Not used Not used Not used	

Note : Refer to "3.SCHEMATIC DIAGRAM".

FF SWITCH BOARD ASSY

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

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

Note : Refer to "3.SCHEMATIC DIAGRAM".

GF MODE BOARD ASSY

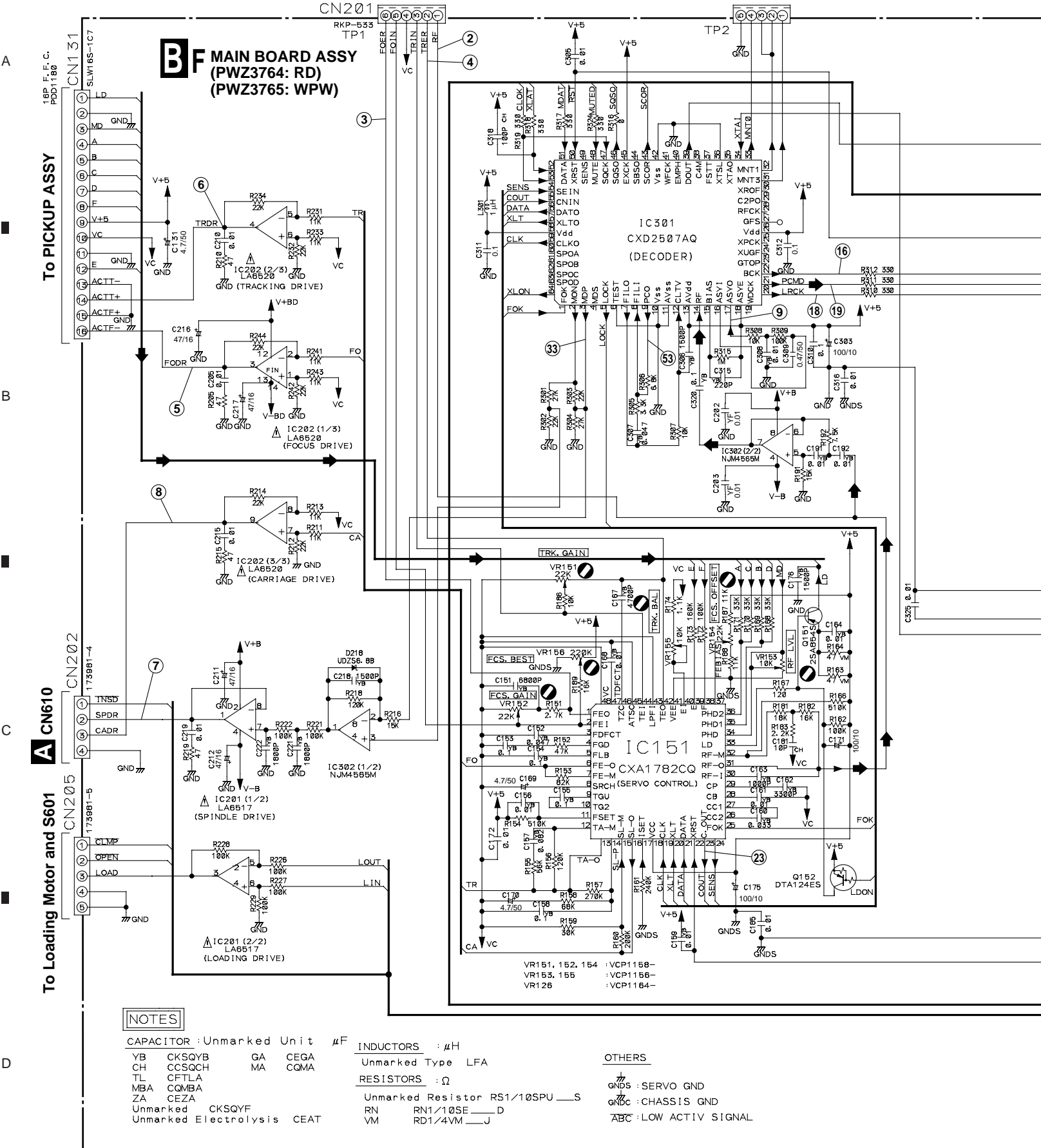
PWZ3769 and PWZ3768 are constructed the same except for the following:

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

Note : Refer to "3.SCHEMATIC DIAGRAM".

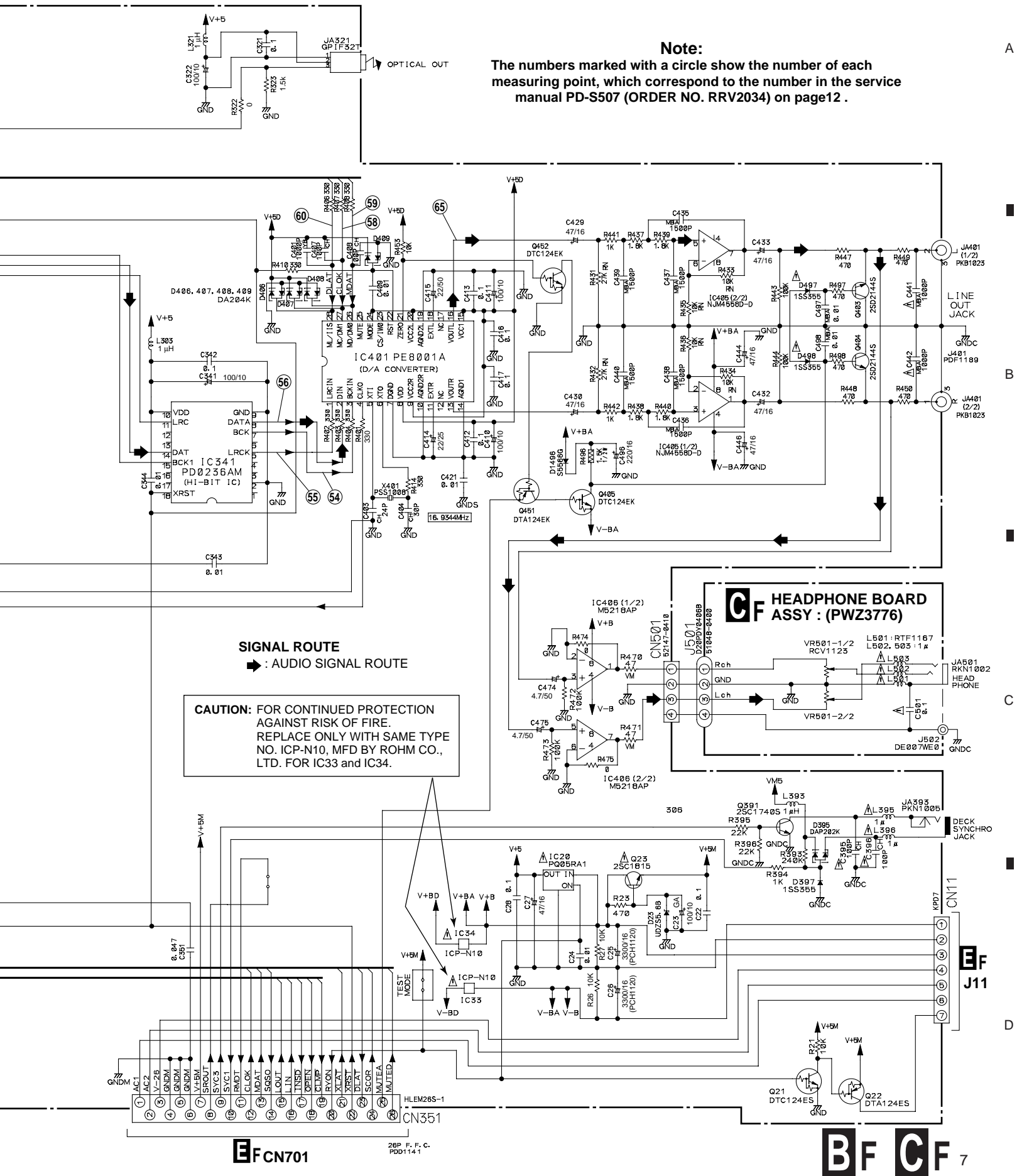
3. SCHEMATIC DIAGRAM

3.1 MAIN BOARD ASSY and HEADPHONE BOARD ASSY

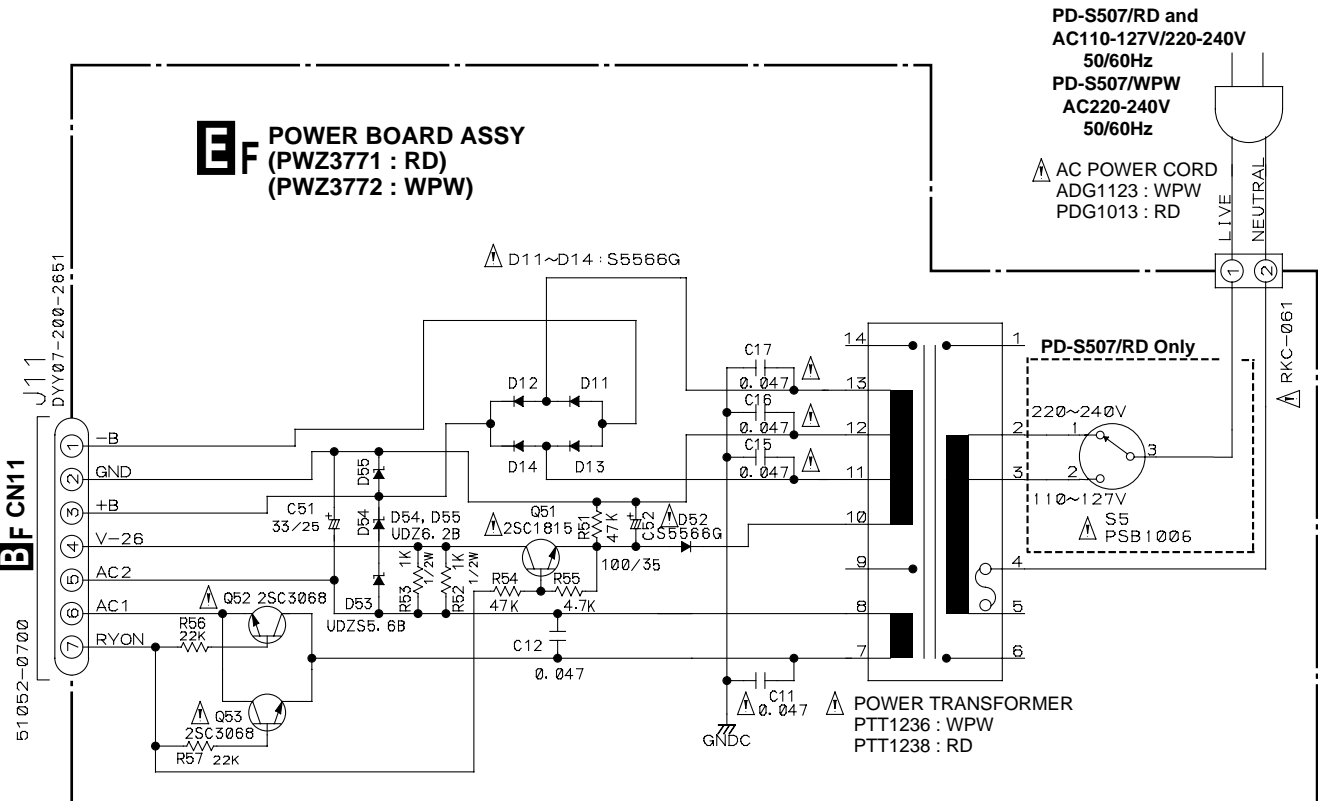
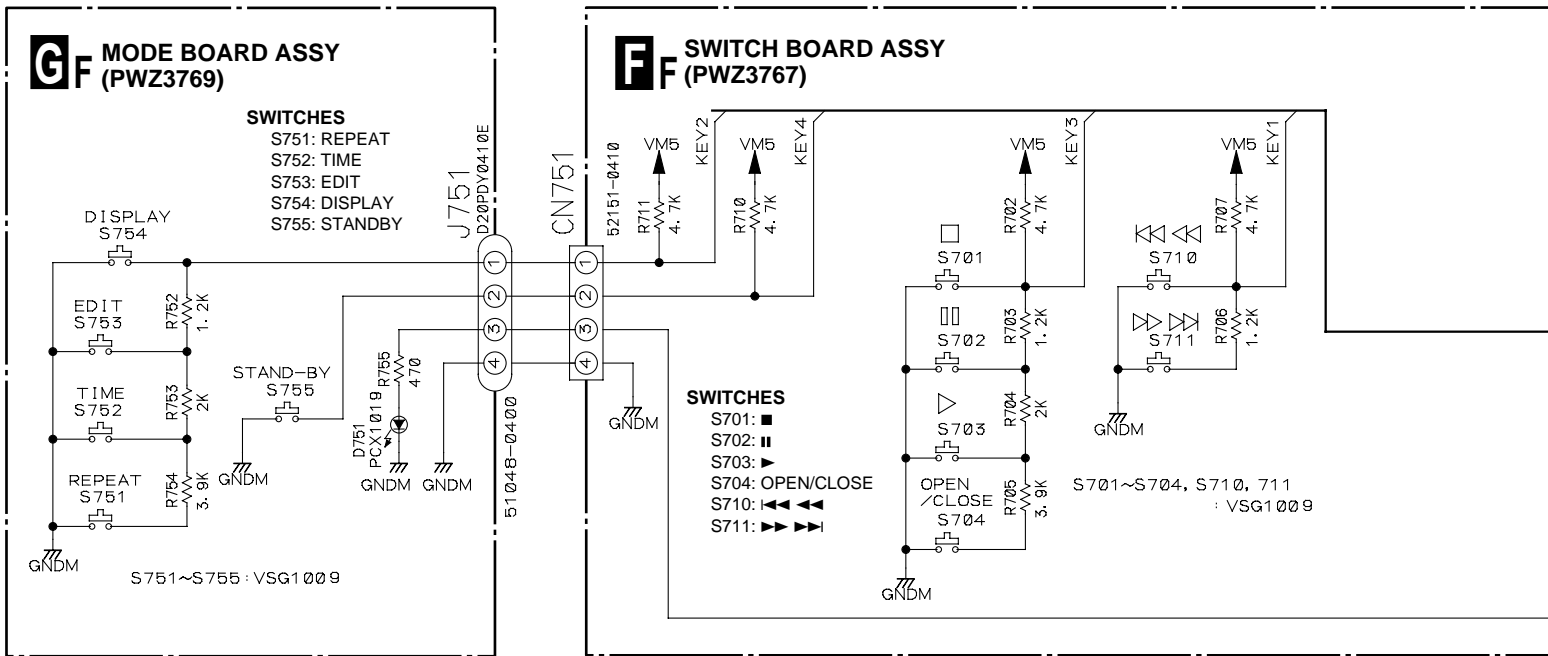


Note:

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 .



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



NOTES

RESISTORS (UNIT:Ω)

Unmarked Type:RS1/10S

CAPACITORS (UNIT:μF)

Unmarked Type:CKSQYF

Unmarked Electrolysis:CEAT

TL CFTLA

INDUCTORS

Unmarked Type:LFA

OTHERS

gndc : CHASSIS GND

ABC:LOW ACTIV SIGNAL

