

Service Manual

ORDER NO.
RRV1296

COMPACT DISC PLAYER

PD-S504

- Refer to the service manual ARP2684 for PD-S502/
WEMXK.

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-S504		
WEMXK	○	AC220 – 240V	
WBWXK	○	AC220 – 240V	
WPW	○	AC220 – 240V	
WL	○	AC220 – 240V	
RD	○	AC110 – 127V/220 – 240V	With the voltage selector

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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, California 90801 U.S.A.

PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada

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

PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL : [03] 580-9911

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1. SAFETY INFORMATION

(FOR EUROPEAN MODEL ONLY)

VARO!

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

ADVERSEL:

USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UND GÅ UDSAETTELSE FOR STRÅLING.

VARNING!

OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRakta EJ STRÅLEN.



LASER
Kuva 1
Lasersäteilyn
varoituserkki

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 INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS

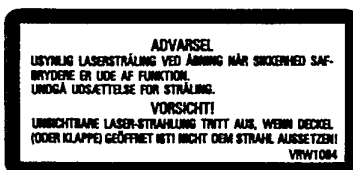
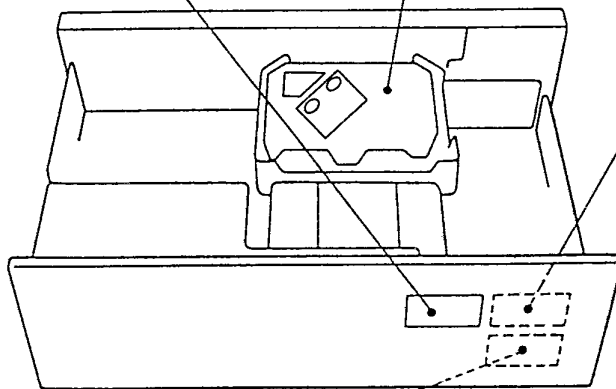
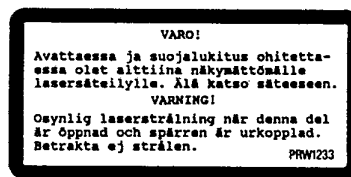
MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780-785 nm

LABEL CHECK

WBWXK, WL and WEMXK types



WEMXK type



WEMXK type



WBWXK, WPW and WL types

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, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam. 92S1B

* : Refer to page 28 on the service manual ARP2684.

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.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- 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 $\times$ 10¹ $\rightarrow$ 561 RD1/8PM $\boxed{5}\boxed{6}\boxed{1}$ J

47k Ω $\rightarrow$ 47 $\times$ 10³ $\rightarrow$ 473 RD1/4PS $\boxed{4}\boxed{7}\boxed{3}$ J

0.5 Ω $\rightarrow$ 0R5 RN2H $\boxed{0}\boxed{R}\boxed{5}$ K

1 Ω $\rightarrow$ 010 RS1P $\boxed{0}\boxed{1}\boxed{0}$ K

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

5.62k Ω $\rightarrow$ 562 $\times$ 10¹ $\rightarrow$ 5621 RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

■ CONTRAST OF PD-S504/WEMXK, WBWXK, WPW, RD, WL AND PD-S502/WEMXK

PD-S504/WEMXK, WBWXK, WPW, RD, WL and PD-S502/WEMXK have the same construction except for the following :

Mark	Symbol & Description	Part No.						Remarks
		PD-S502/ WEMXK	PD-S504/ WEMXK	PD-S504/ WBWXK	PD-S504/ WPW	PD-S504/ RD	PD-S504/ WL	
Δ NSP Δ NSP	MOTHER BOARD ASSY └ MAIN BOARD ASSY └ COAXIAL BOARD ASSY	PWM1760 PWZ2479 Not Used	PWM1947 PWZ2952 Not Used	PWM1948 PWZ2953 PWZ2984	PWM1907 PWZ2957 Not Used	PWM1904 PWZ2827 Not Used	PWM1904 PWZ2827 Not Used	*No.13
Δ NSP NSP NSP Δ	SUB BOARD ASSY └ FUNCTION BOARD ASSY └ SW BOARD ASSY └ HEADPHONE BOARD ASSY └ SERVO TRANS BOARD ASSY	PWX1273 PWZ2483 PWZ2484 PWZ2485 PWZ2487	PWX1373 PWZ2838 PWZ2840 PWZ2841 PWZ2857	PWX1373 PWZ2838 PWZ2840 PWZ2841 PWZ2857	PWX1372 PWZ2837 PWZ2615 PWZ2616 PWZ2842	PWX1371 PWZ2837 PWZ2615 PWZ2616 PWZ2869	PWX1372 PWZ2837 PWZ2615 PWZ2616 PWZ2842	
NSP NSP	Screw Under base Rear base Tray lens Function panel	Not Used PNA1912 PNA1962 PNW2242 PNW2243	ABA1192 PNA2214 PNA2207 Not Used PNW2573	ABA1192 PNA2214 PNA2208 Not Used PNW2573	Not Used PNA2214 PNA2212 Not Used PNW2573	Not Used PNA2214 PNA2211 Not Used PNW2573	Not Used PNA2214 PNA2213 Not Used PNW2573	*No.1 *No.14 *No.2 *No.3
Δ Δ	Tray name plate Getter Fuse (T5A) AC power cord Caution label HE	PNW2244 Not Used Not Used PDG1003 PRW1233	PNW2457 PRW1410 Not Used PDG1003 PRW1233	PNW2457 PRW1410 PEK1003 PDG1055 Not Used	PNW2457 PRW1410 Not Used RDG1022 Not Used	PNW2457 PRW1410 Not Used PDG1056 Not Used	PNW2457 PRW1410 Not Used PDG1003 Not Used	*No.4 *No.5 *No.6
NSP	Caution label Caution label Display window Caution label (F) Caution label (G)	Not Used VRW1094 PAM1612 VRW - 328 VRW - 329	Not Used VRW1094 PAM1612 VRW - 328 VRW - 329	PRW1018 Not Used PAM1612 VRW - 328 VRW - 329	PRW1018 Not Used PAM1597 Not Used Not Used	Not Used Not Used PAM1597 Not Used Not Used	PRW1018 Not Used PAM1597 VRW - 328 VRW - 329	*1
Δ Δ	Power transformer (AC220 - 240V) Power transformer (AC110 - 127V/220 - 240V) CD packing case Cord with pin plug	PTT1236 Not Used PHG1902 PDE1109	PTT1236 Not Used PHG2124 PDE1248	PTT1236 Not Used PHG2125 PDE1248	PTT1236 Not Used PHG2128 PDE1248	Not Used PTT1238 PHG2128 PDE1248	PTT1236 Nto Used PHG2128 PDE1248	*No.7
	Protector R Spacer Operating instructions (English/French/German/Italian/Dutch/ Swedish/Spanish/Portuguese) Operating instructions (English) Operating instructions (Finnish/Danish/Norwegian)	PHA1261 Not Used PRE1173 Not Used Not Used	PHA1261 Not Used PRE1217 Not Used Not Used	PHA1259 PHC1078 Not Used Not Used	PHA1238 Not Used Not Used PRE1218	PHA1238 Not Used Not Used PRE1218	PHA1238 Not Used Not Used PRE1218	*No.8 *No.9 *No.10 *No.11
	Vinyl bag Cord with mini plug	Not Used Not Used	Not Used Nto Used	Z21 - 013 Nto Used	Not Used PDE1247	Not Used Nto Used	Not Used Nto Used	*No.12 For packing

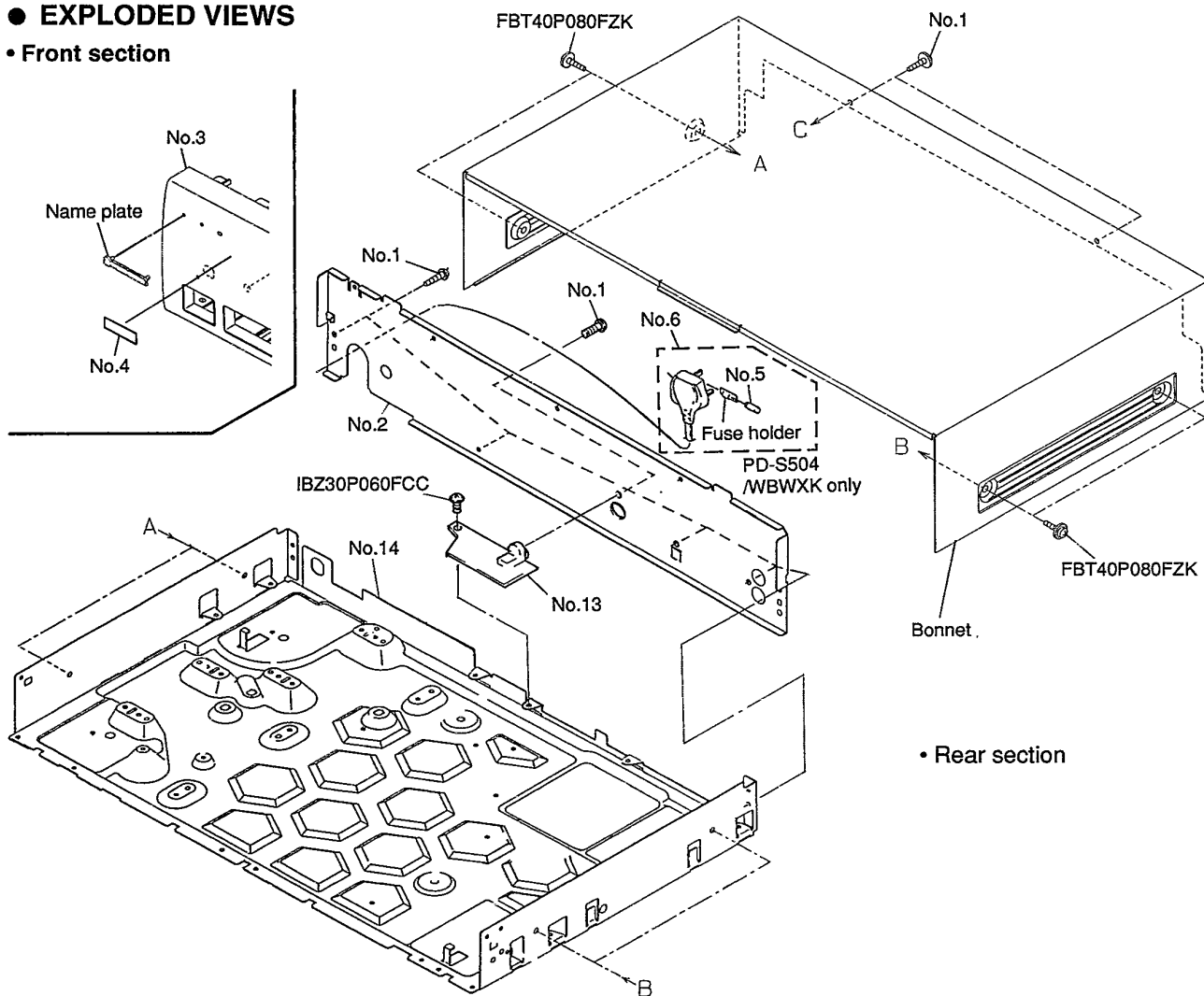
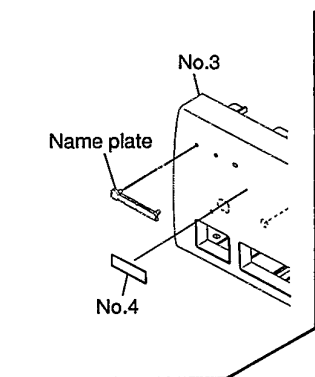
* : The numbers in the remarks column correspond to the numbers on the exploded diagram.
Refer to "EXPLODED VIEWS".

*1: See page 2.

PD-S504

● EXPLODED VIEWS

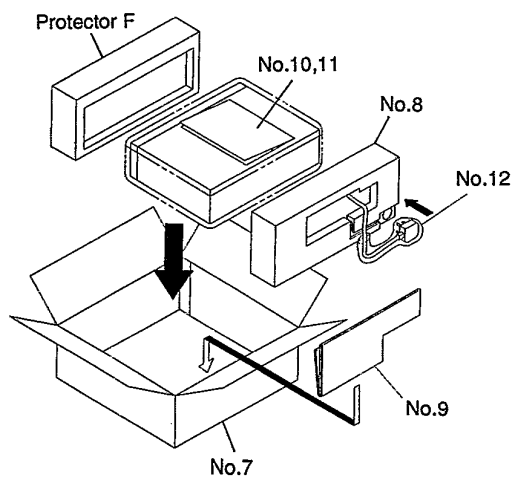
• Front section



• Rear section

● PACKING

• For PD-S504/WBWXK type



PWZ2952, PWZ2953, PWZ2957, PWZ2827 and PWZ2479 have the same construction except for the following

Note * : Refer to "3. PCB DIAGRAM" and "4. SCHEMATIC DIAGRAM".

PWZ2838, PWZ2837 and PWZ2483 have the same construction except for the following:

PWZ2841, PWZ2616 and PWZ2485 have the same construction except for the following:

PWZ2857, PWZ2842, PWZ2869 and PWZ2847 have the same construction except for the following:

Note * : Refer to " 3. PCB DIAGRAM " and " 4. SCHEMATIC DIAGRAM ".

Although PWZ2840, PWZ2615 and PWZ2484 are different in part number, they consist of the same components.

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.		
MAIN POWER LOOM (CONTINUED)				C140	C142	C143	C145	(1) 2400000	00311197

SEMICONDUCTORS

IC151	CXA1372Q	C441, C442 (1000µF50V)	PCL039
IC301	CXD1500BQ		

COILS AND FILTERS	J439	MINI JACK	PKN1005
	X401	XTAL RESONATOR	

L395, L396, L415-L417	LAU0100	(16.93448GHz)
L300	LAU3900	

YASU	OPTICAL OUTPUT JACK	YUJ1415
YCB	PCB BINDER	YEF1004
YMI	CERAMIC RESONATOR 4.000MHZ	YUJ1004

CAPACITORS C435-C438 CCCCC05C50

C429, C430	CCCCH396050	COAXIAL BOARD ASSY (PWZ2984)
C405	CCCCSL271159	

C909	CEASATM50	IC331	MC74HC04N
C921	CE5A100M75		

C9B	CEZANNES	L34	PTL00B
1001	1001	1001	1001

C161	CFTYA104190	C330	CEN0791925
C157, C164, C169, C308	OCQYX103N25	C334	CFTXA103350
		C336, C339	CFTYA104180

C156, C168	COCYX333K25	C333 (100µm-500µm)	PCH126
C307, C354	COCYX473K25	-----	-----

0100	0000 00000000	0000 00000000	0000 00000000	0000 00000000
C218	C8CY83728C90			
			OTHERS	

C171, C172	CAC1B472K50
C167, C305, C310, C315, C319	CACYP103250
C340, C343, C343, C344	CAC1B472K50

1 2 3 4 5 6 7 8

A

B

B

PD-S504

C

C

D

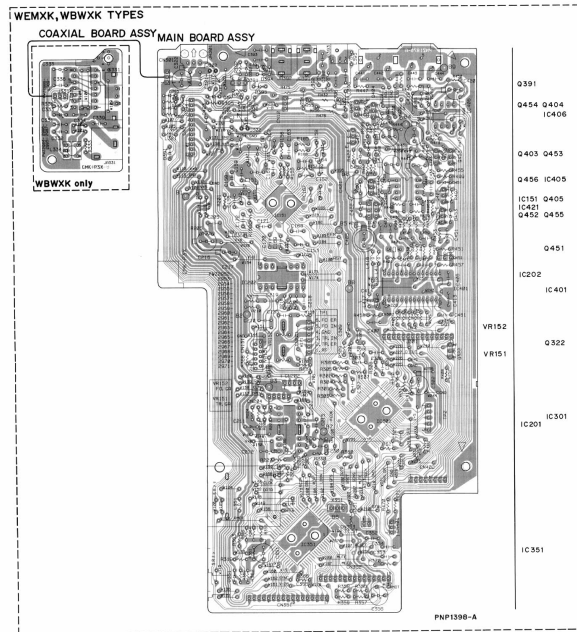
D

E

E

F

F



1 2 3 4 5 6 7 8 9 13

4. SCHEMATIC DIAGRAM

