

Service Manual

ORDER NO.
RRV2031

COMPACT DISC PLAYER

CDJ-500II

- Refer to the service manual RRV1831 for CDJ-500II/SL.

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.
	CDJ-500II		
SY	○	AC110V/120V/220-230V/240V	With the voltage selector

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.

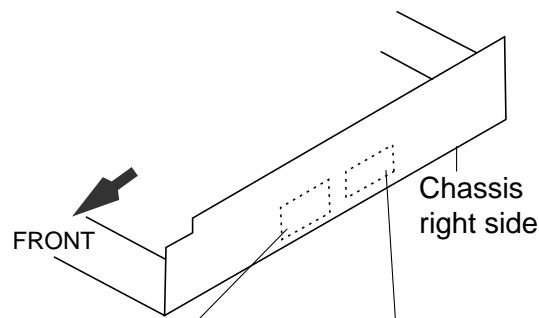
— IMPORTANT —

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

— LASER DIODE CHARACTERISTICS —

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

LABEL CHECK



No.3 (VRW1094)

ADVARSEL
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHED SAF-
BRYDERE ER UDE AF FUNKTION.
UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT!
UNSIHTBARE LASER-STRÅLUNG TRITT AUS, WENN DECKEL
(ODER KLAPPE) GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN!
VRW1094

No.4 (VRW1297)

VARO!
Avattaessa ja suojalukitus ohitetta-
essa olet alttiina näkymättömälle
lasersäteilylle. Älä katso säteeseen.
WARNING!
Osynlig laserstrålning när denna del
är öppnad och spårren är urkopplad.
Betrakta ej strålen.
VRW1297-A

Additional Laser Caution

- 1. Laser Interlock Mechanism**

ON/OFF switching of the switch for detecting loading state, ON/OFF switching of the clamp completion, close completion and shutter switches are detected by the system microprocessor. The design of this interlock mechanism prevents laser diode oscillation when even one of the clamp completion, close completion and shutter switches is OFF (High level). Accordingly, the interlock will no longer function and the laser diode will oscillate if all three of these switches are set deliberately to ON (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.**

* Refer to page 22 on the service manual RRV1831

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

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

0.5 Ω \rightarrow R50 RN2H R 5 0 K

1 Ω \rightarrow 1R0 RSIP 1 R 0 K

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

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

CONTRAST TABLE

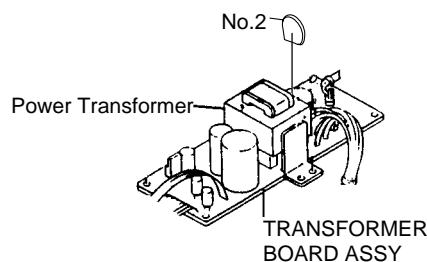
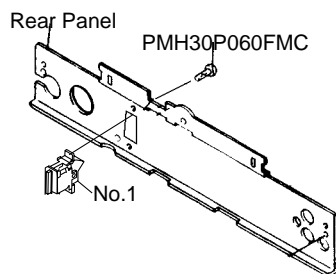
CDJ-500II/SY and CDJ-500II/SL are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			CDJ-500II	CDJ-500II	
			SL	SY	
P6-70 P6-72	NSP	PCB ASSEMBLIES			
		MOTHER BOARD Assy	DWM1492	DWM2081	
		— MAIN BOARD Assy	DWX1794	DWX1899	
P7-121	NSP	— TRANSFORMER BOARD Assy	DWR1223	DWR1302	
		— VOLTAGE SELECTOR BOARD Assy	DWS1256	DWS1295	
		PACKING			
P3-4		Operating Instructions (English /French/German/Italian/Dutch/Swedish/Spanish/Chinese)	DRB1219	Not used	
P3-4		Operating Instructions (English /French/German/Italian/Swedish/Spanish)	Not used	DRB1222	
P3-10		Packing Case	DHG1792	DHG1871	
P6-43	NSP \triangle	EXTERIOR			
P6-89		Power Knob	DNK2942	DNK3602	
		Rear Panel	DNC1465	DNC1496	
P7-119	NSP	Power Switch	Not used	DSA1024	No.1
		Capacitor Cover	Not used	VEC1912	No.2
		Caution Label	PRW1018	Not used	
	NSP	Caution Label	Not used	VRW1094	*
	NSP	Caution Label HE	Not used	VRW1297	*

Notes: ● The numbers in the remarks column corresponds to the number on the exploded diagram, Refer to "EXPLODED VIEWS".

● Marked "*" are referred to "1. SAFETY INFORMATION".

EXPLODED VIEWS



■ CONTRAST OF PCB ASSEMBLIES

EF MAIN BOARD ASSY

DWX1899 and DWX1794 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		DWX1794	DWX1899	
	Q406, Q407	Not used	2SD2114K	
	R433	RN1/10SE1001D	RN1/10SE4700D	
	R434	RN1/10SE1001D	RN1/10SE4700D	
	R435	RS1/10S0R0J	RN1/10SE5100D	
	R436	RS1/10S0R0J	RN1/10SE5100D	
	R441	RS1/10S182J	RS1/10S561J	
	R449	RS1/10S0R0J	RS1/10S471J	
	R450	RS1/10S0R0J	RS1/10S471J	
	R496	RD1/4PU822J	RD1/4PU622J	
	R499	RD1/4PU822J	RD1/4PU622J	

Note : • Refer to 3. SCHEMATIC DIAGRAM.

FF TRANSFORMER BOARD ASSY

DWR1302 and DWR1223 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		DWR1223	DWR1302	
⚠	BOARD IN JUMPERWIRE (ORG)	DDF1002	DDF1003	
⚠	BOARD IN JUMPERWIRE (GRY)	DDF1003	DDF1004	
⚠	BOARD IN JUMPERWIRE (VLT)	DDF1004	DDF1005	
⚠	BOARD IN JUMPERWIRE (BUL)	DDF1005	DDF1013	

Note : • Refer to 3. SCHEMATIC DIAGRAM.

IF VOLTAGE SELECTOR BOARD ASSY

DWS1295 and DWS1256 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		DWS1256	DWS1295	
⚠	JUMPERWIRE UNIT (ORG)	Not used	DDF1014	

Note : • Refer to 3. SCHEMATIC DIAGRAM.

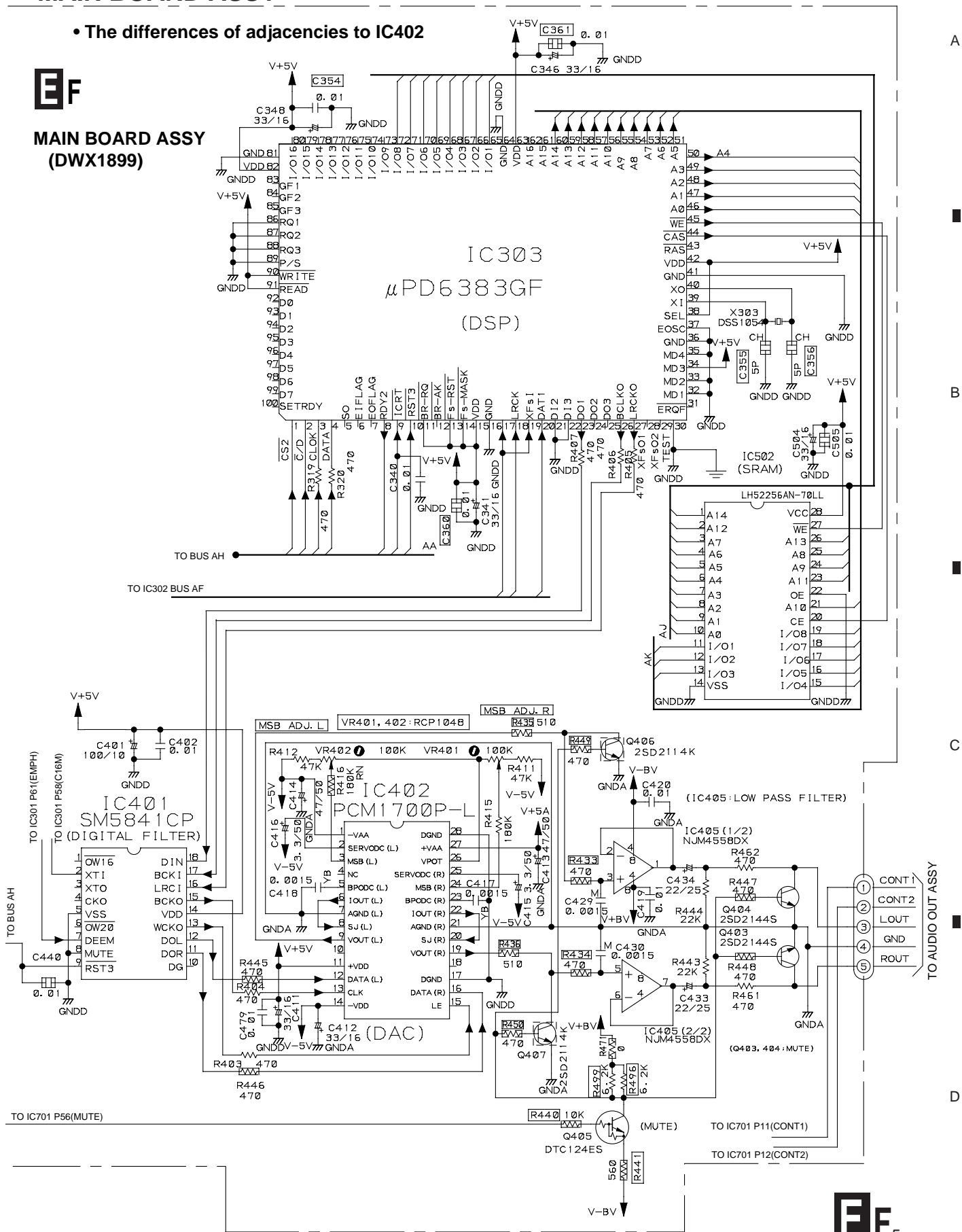
3. SCHEMATIC DIAGRAM

● MAIN BOARD ASSY

• The differences of adjacencies to IC402



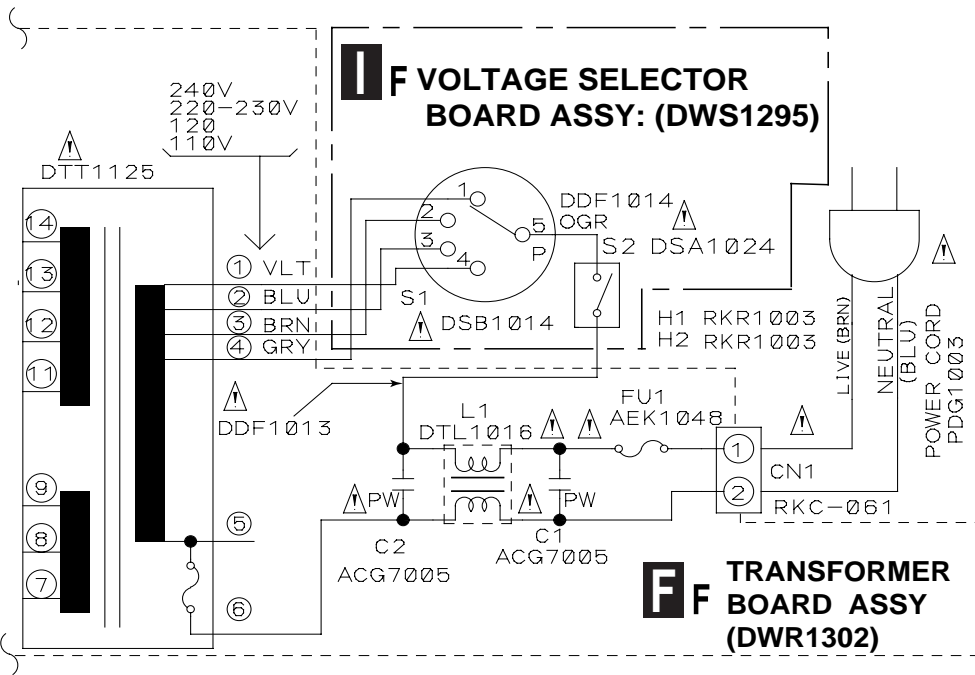
MAIN BOARD ASSY (DWX1899)



● VOLTAGE SELECTOR BOARD ASSY and TRANSFORMER BOARD ASSY

- The differences of adjacencies to the POWER TRANSFORMER

A



B

C

D