

Service Manual

Portable CD Player



SL-S214

Colour

(A).....Blue Type [(EG) area only]

(S).....Silver Type

Areas

(E).....Great Britain.

(EG).....Europe and CIS.

Subject : Change of Printed Circuit Board

Please file and use this supplement manual together with the service manual for Model No. SL-S214 (E), (EG), Order No. AD0002036C2.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Changing Point

The change of printed circuit board requires the change of schematic diagram and parts.

1.1. How to distinguish

When the Part No. of printed circuit board is in Fig. 1-1. (RJB2236B-2) or later, refer to the Schematic Diagram, Printed Circuit Board Diagram and Replacement Parts List on this supplement service manual.

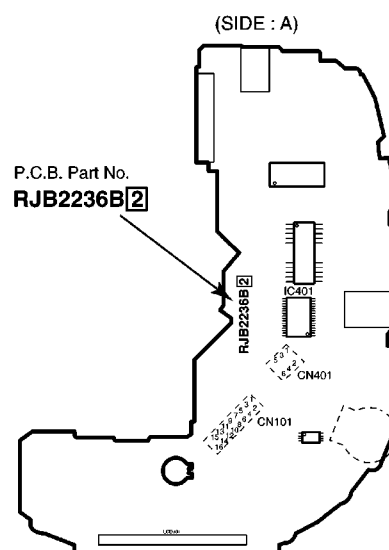
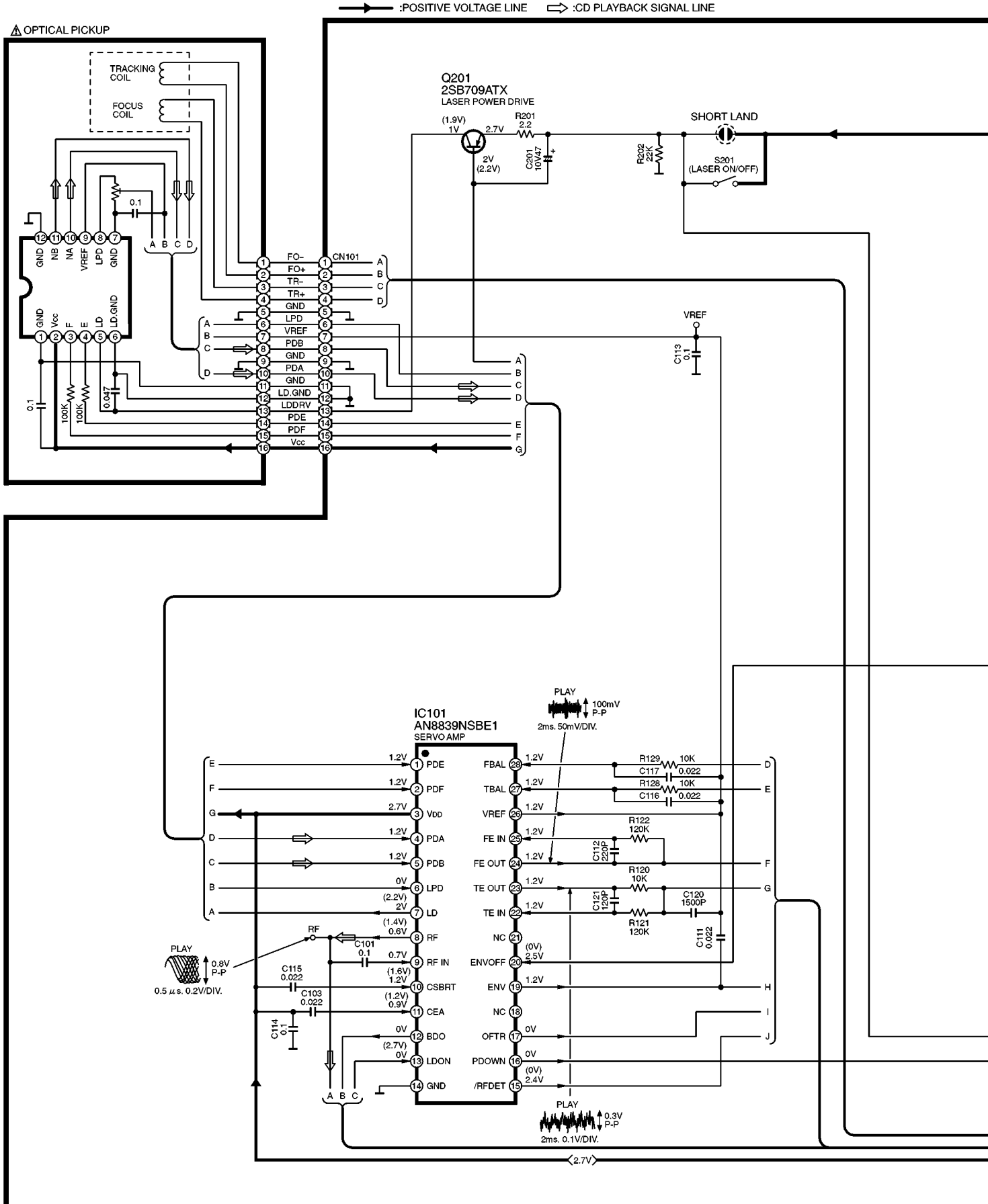


Fig. 1-1.

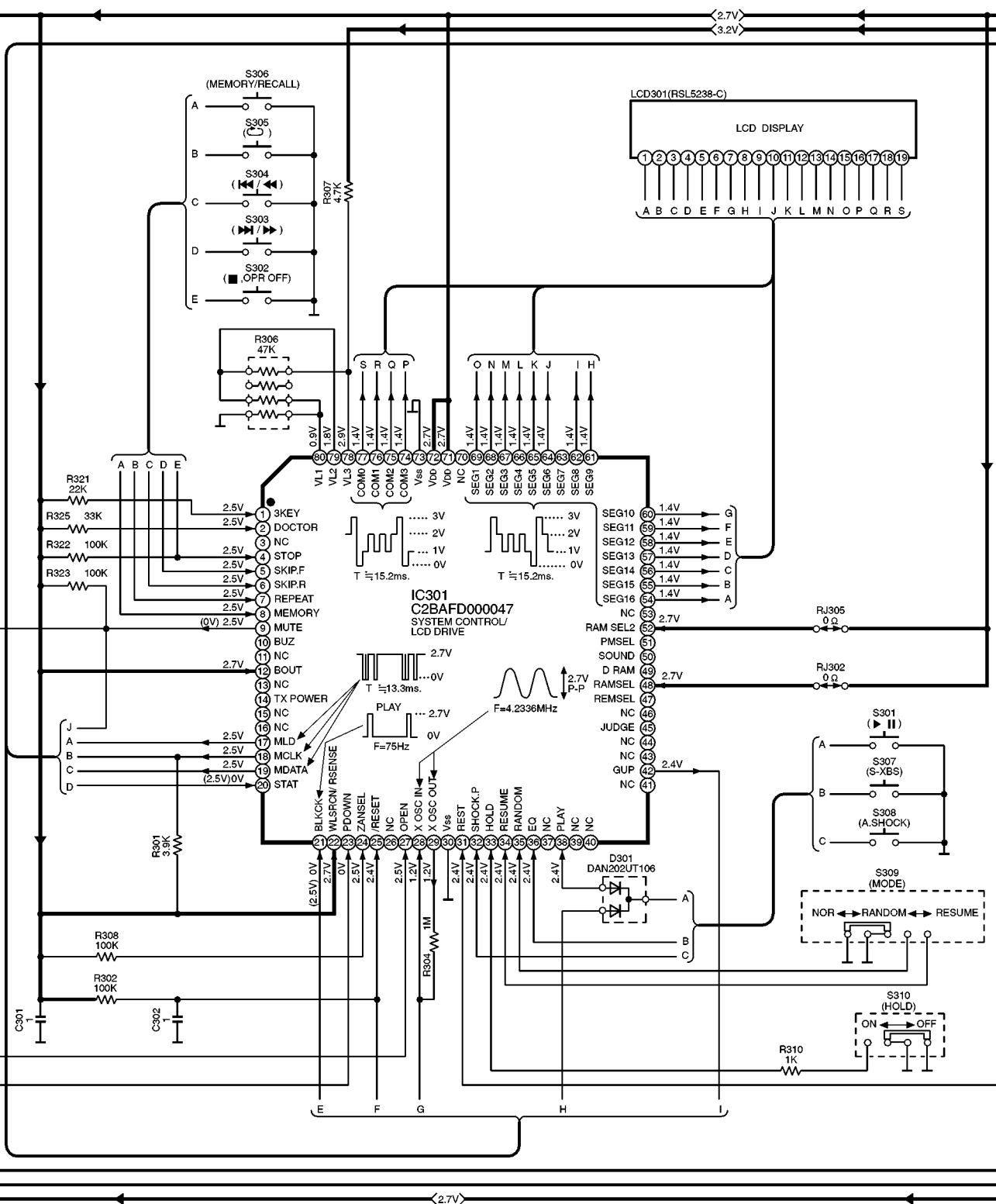
Panasonic®

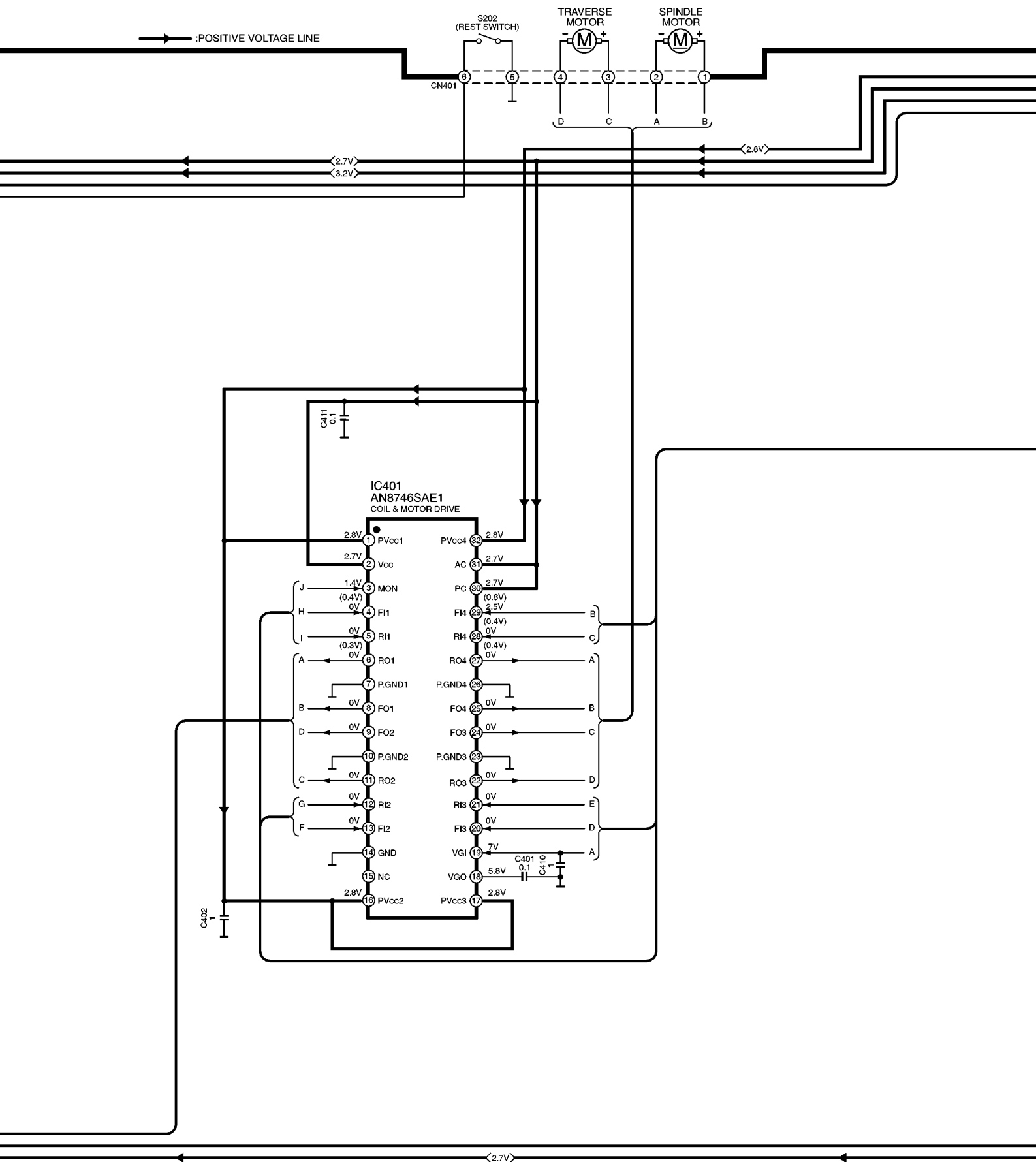
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2 Schematic Diagram

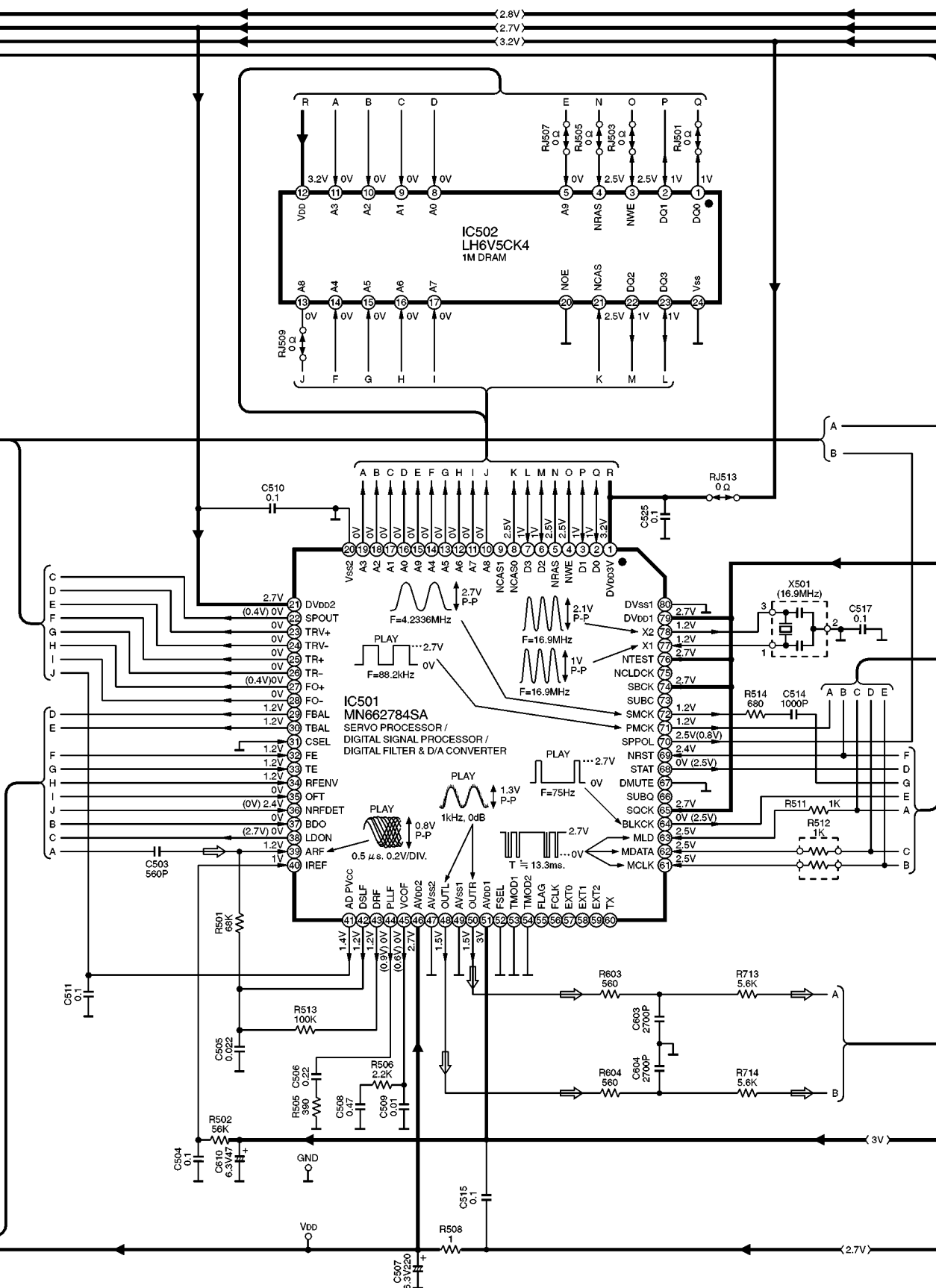


→ : POSITIVE VOLTAGE LINE

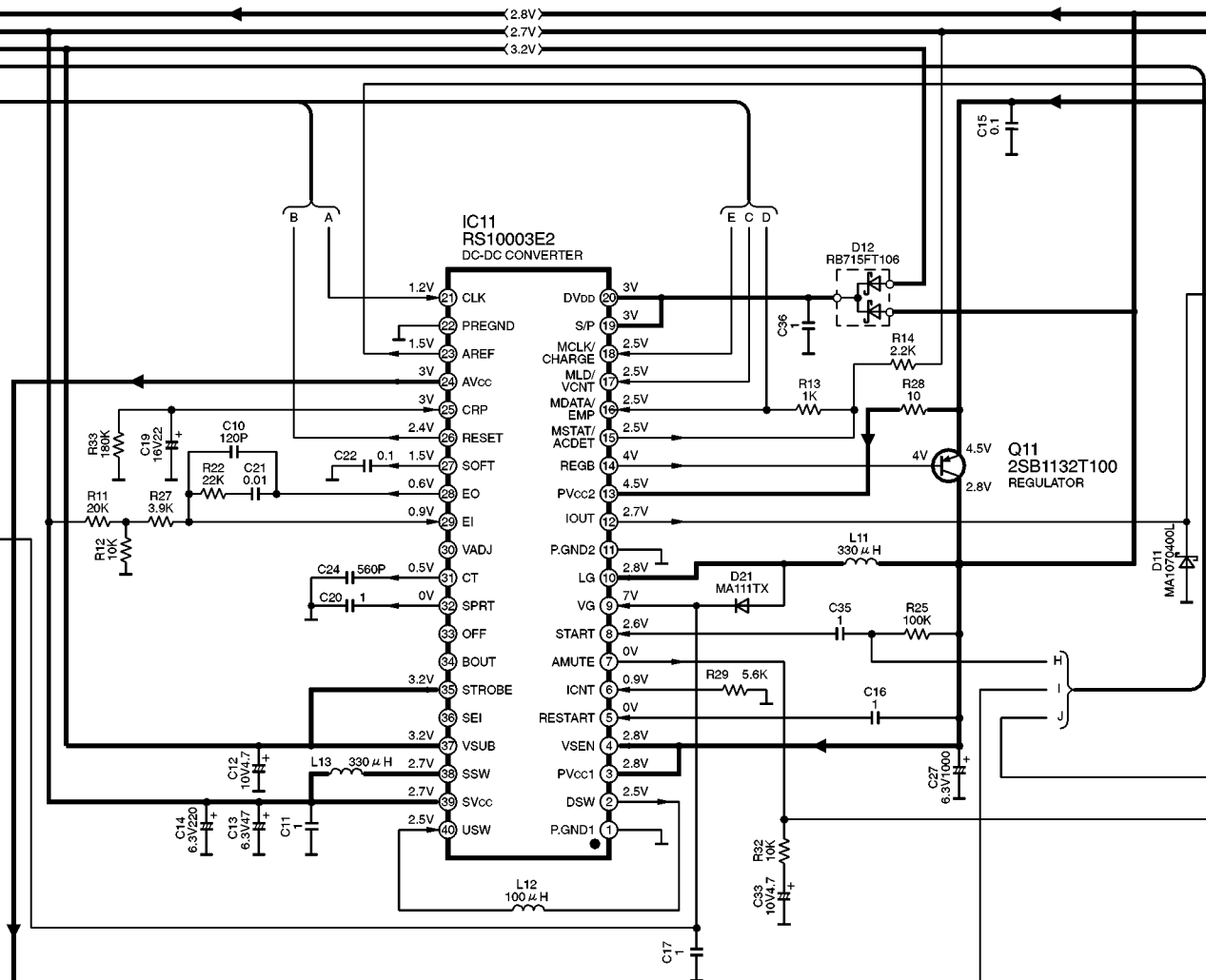




→ : POSITIVE VOLTAGE LINE ⇨ : CD PLAYBACK SIGNAL LINE

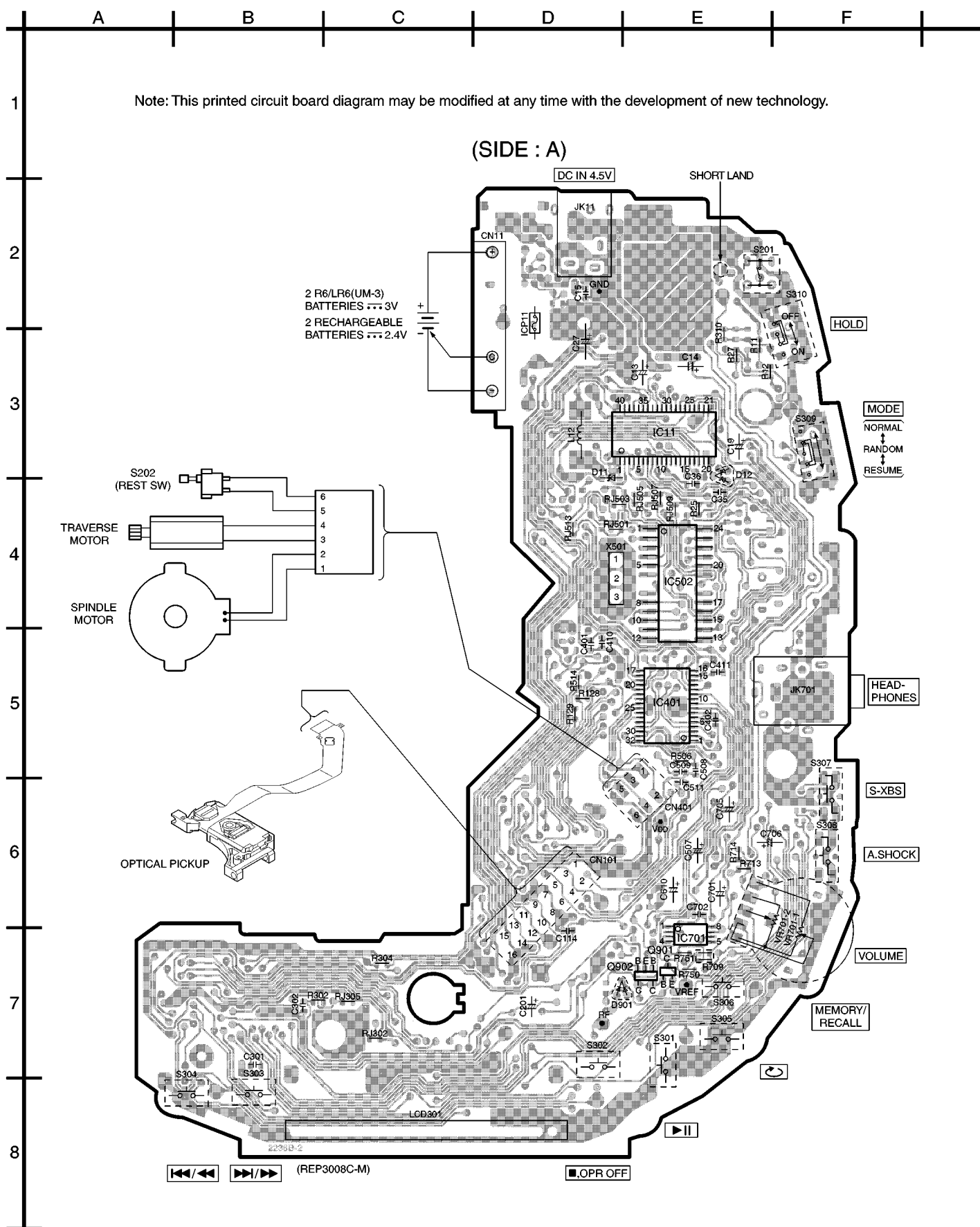


→ : POSITIVE VOLTAGE LINE ⇨ : CD PLAYBACK SIGNAL LINE





3 Printed Circuit Board Diagram



Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
(SIDE : A)									
IC11	3E	S202	4B	R11	3E	RJ302	7C	C201	7D
IC401	5E	S301	7E	R12	3E	RJ305	7C	C301	7B
IC502	4E	S302	7D	R25	4E	RJ501	4D	C302	7B
IC701	7E	S303	8B	R27	3E	RJ503	4D	C401	5D
Q901	7E	S304	8B	R128	5D	RJ505	4E	C402	5E
Q902	7E	S305	7E	R129	5D	RJ507	4E	C410	5D
D11	3D	S306	7E	R302	7B	RJ509	4E	C411	5E
D12	3E	S307	6F	R304	7C	RJ513	4D	C507	6E
D901	7E	S308	6F	R310	3E	C13	3E	C508	5E
ICP11	2D	S309	3F	R506	5E	C14	3E	C509	5E
VR701-1	6F	S310	3F	R514	5D	C15	2D	C511	6E
VR701-2	6F	CN11	2D	R709	7E	C19	3E	C601	6E
L12	3D	CN101	6D	R713	6E	C27	3D	C701	6E
X501	4D	CN401	6E	R714	6E	C35	4E	C702	6E
LCD301	8C	JK11	2D	R750	7E	C36	4E	C705	6E
S201	2E	JK701	5F	R751	7E	C114	7D	C706	6E
(SIDE : B)									
IC101	7H	(CN101)	6I	R501	6H	C12	3H	C503	7H
IC301	7K	(JK11)	2H	R502	6H	(C13)	3H	C504	6G
IC501	5H	(JK701)	5G	R505	6H	(C14)	3H	C505	6H
Q11	2I	R13	4H	R508	6H	C16	3H	C506	6H
Q201	7I	R14	4H	R511	6I	C17	4H	(C507)	6H
Q701	7G	R22	3H	R512	5I	(C19)	3G	C510	5H
Q702	7G	R28	3H	R513	5H	C20	2G	C514	6I
Q703	7G	R29	3H	R603	6H	C21	3G	C515	6H
D21	3H	R32	3H	R604	6H	C22	3H	C517	4H
D301	7H	R33	3G	R701	7H	C24	3G	C525	4H
(ICP11)	2I	R120	6I	R702	7G	(C27)	3H	C603	6H
L11	3H	R121	6H	R703	6G	C33	3H	C604	6H
L13	3H	R122	7H	R704	6G	C101	7H	(C610)	6H
X501	4H	R201	7I	R705	6G	C103	7H	(C701)	6G
(LCD301)	8I	R202	7I	R706	6G	C111	6H	C703	7H
(S201)	2G	R301	7K	R707	6G	C112	7H	C704	7H
(S301)	7H	R306	7K	R708	6G	C113	6H	(C705)	6G
(S302)	7H	R307	7K	R710	7G	C115	7H	(C706)	6G
(S303)	8K	R308	7K	R711	7G	C116	6I	C707	5G
(S304)	8K	R321	7K	R712	6G	C117	7H		
(S305)	7G	R322	7K	RJ702	4G	C120	6H		
(S306)	7G	R323	7I	C10	3H	C121	6I		
(CN11)	2I	R325	7K	C11	3H	(C201)	7I		

4 Replacement Parts List

Notes:

- Important safety notice:

Components identified by Δ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

- The marking [RTL] indicates that Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- All parts are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C10	ECUV1H121KCV	50V 120P	1	
C11	ECUVNA105ZFV	10V 1U	1	
C12	RCST1AY475RU	10V 4.7U	1	
C13	RCE0JSL470IX	6.3V 47U	1	
C14	RCE0JKA221IG	6.3V 220U	1	
C15	ECUZNC104ZFF	16V 0.1U	1	
C16,17	ECUVNA105ZFV	10V 1U	2	
C19	ECA1CAK220XH	16V 22U	1	
C20	ECUVNA105ZFV	10V 1U	1	
C21	ECUVNH103KBV	50V 0.01U	1	
C22	ECUZNC104ZFF	16V 0.1U	1	
C24	ECUV1H561KBV	50V 560P	1	
C27	RCE0JRS102BJ	6.3V 1000UF	1	
C33	RCST1AY475RU	10V 4.7U	1	
C35,36	ECUVNA105ZFV	10V 1U	2	
C101	ECUVNC104KBV	16V 0.1U	1	
C103	ECUVNE223KBV	25V 0.022U	1	
C111	ECUVNE223KBV	25V 0.022U	1	
C112	ECUV1H221KBV	50V 220P	1	
C113,14	ECUZNC104ZFF	16V 0.1U	2	
C115-17	ECUVNE223KBV	25V 0.022U	3	
C120	ECUV1H152KBV	50V 1500P	1	
C121	ECUV1H121KCV	50V 120P	1	
C201	ECEALAKS470	10V 47U	1	
C301,02	ECUVNA105ZFV	10V 1U	2	
C401	ECUZNC104ZFF	16V 0.1U	1	
C402	ECUVNA105ZFV	10V 1U	1	
C410	ECUVNA105ZFV	10V 1U	1	
C411	ECUZNC104ZFF	16V 0.1U	1	
C503	ECUV1H561KBV	50V 560P	1	
C504	ECUZNC104ZFF	16V 0.1U	1	
C505	ECUVNE223KBV	25V 0.022U	1	
C506	ECUVNA224KBV	10V 0.22U	1	
C507	RCE0JKA221IG	6.3V 220U	1	
C508	ECUV0J474KBV	6.3V 0.47U	1	
C509	ECUVNH103KBV	50V 0.01U	1	
C510,11	ECUZNC104ZFF	16V 0.1U	2	
C514	ECUV1H102KBV	50V 1000P	1	
C515	ECUZNC104ZFF	16V 0.1U	1	
C517	ECUZNC104ZFF	16V 0.1U	1	
C525	ECUZNC104ZFF	16V 0.1U	1	
C603,04	ECUV1H272KBV	50V 2700P	2	
C610	ECA0JAK470XH	6.3V 47U	1	
C701	ECEALAKS470	10V 47U	1	
C702	ECUZNC104ZFF	16V 0.1U	1	
C703,04	ECUVNJ105KBV	63V 1U	2	
C705,06	ECA0JAK101XH	6.3V 100U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C707	ECUZNC104ZFF	16V 0.1U	1	
CN11	RJH8303-2	BATTERY TERMINAL	1	
CN101	RJS2A4716M1	CONNECTOR (16P)	1	
CN401	RJS2A5106T1	CONNECTOR (6P)	1	
D11	MA1070400L	DIODE	1	
D12	MA741WKT	DIODE	1	
D21	MA111TX	DIODE	1	
D301	MA142WKT	DIODE	1	
D901	MA142WKT	DIODE	1	
IC11	RS10003E2	IC	1	
IC101	AN8839NSBE2	IC	1	
IC301	C2BAFD000047	IC	1	
IC401	AN8746SAE1	IC	1	
IC501	MN662784SA	IC	1	
IC502	LH6V5CK4	IC	1	
IC701	NJU7082BVAE1	IC	1	
ICP11	UNH000700A	IC PROTECTOR	1	Δ
JK11	RJJ43K09-C	DC IN	1	
JK701	RJJ33TK07-C	HEADPHONES	1	
L11	RLQU331KT-W	COIL	1	
L12	RLQS101KT1-D	COIL	1	
L13	RLQU331KT-W	COIL	1	
LCD301	RSL5238-C	LCD	1	
PCB1	REP3008C-M	P.C.B. ASSY.	1	[RTL]
Q11	2SB1132T100	TRANSISTOR	1	
Q201	2SB709ATX	TRANSISTOR	1	
Q701,02	2SD1328QRSTX	TRANSISTOR	2	
Q703	FMG6AT148	TRANSISTOR	1	
Q901	DTA114YUA106	TRANSISTOR	1	
Q902	FMG6AT148	TRANSISTOR	1	
R11	ERJ3GEYD203V	1/16W 20K	1	
R12	ERJ3GEYD103V	1/16W 10K	1	
R13	ERJ3GEYJ102V	1/16W 1K	1	
R14	ERJ3GEYJ222V	1/16W 2.2K	1	
R22	ERJ3GEYJ223V	1/16W 22K	1	
R25	ERJ3GEYJ104Z	1/16W 100K	1	
R27	ERJ3GEYJ392V	1/16W 3.9K	1	
R28	ERJ3GEYJ100V	1/16W 10	1	
R29	ERJ3GEYJ562V	1/16W 5.6K	1	
R32	ERJ3GEYJ103Z	1/16W 10K	1	
R33	ERJ3GEYD184V	1/16W 180K	1	
R120	ERJ3GEYJ103Z	1/16W 10K	1	
R121,22	ERJ3GEYJ124V	1/16W 120K	2	
R128,29	ERJ3GEYJ103Z	1/16W 10K	2	
R201	ERJ3GEYJ2R2V	1/16W 2.2	1	
R202	ERJ3GEYJ223V	1/16W 22K	1	
R301	ERJ3GEYJ392V	1/16W 3.9K	1	
R302	ERJ3GEYJ104Z	1/16W 100K	1	
R304	ERJ3GEYJ105V	1/16W 1M	1	
R306	EXBV8V473JV	1/32W 47K	1	
R307	ERJ3GEYJ472V	1/16W 4.7K	1	
R308	ERJ3GEYJ104Z	1/16W 100K	1	
R310	ERJ3GEYJ102V	1/16W 1K	1	
R321	ERJ3GEYJ223V	1/16W 22K	1	
R322,23	ERJ3GEYJ104Z	1/16W 100K	2	
R325	ERJ3GEYJ333V	1/16W 33K	1	
R501	ERJ3GEYJ683V	1/16W 68K	1	
R502	ERJ3GEYJ563V	1/16W 56K	1	
R505	ERJ3GEYJ391V	1/16W 390	1	
R506	ERJ3GEYJ222V	1/16W 2.2K	1	
R508	ERJ3GEYJ1R0V	1/16W 1	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R511	ERJ3GEYJ102V	1/16W 1K	1	
R512	EXBV4V102JV	1/32W 1K	1	
R513	ERJ3GEYJ104Z	1/16W 100K	1	
R514	ERJ3GEYJ681V	1/16W 680	1	
R603,04	MCR03PZHJ561	1/16W 560	2	
R701,02	ERJ3GEYJ104Z	1/16W 100K	2	
R703,04	ERJ3GEYJ220V	1/16W 22	2	
R705,06	ERJ3GEYJ1R5V	1/16W 1.5	2	
R707,08	ERJ3GEYJ102V	1/16W 1K	2	
R709	EXBV4V392J	1/32W 3.9K	1	
R710	EXBV4V123J	1/32W 12K	1	
R711	EXBV4V103JV	1/32W 10K	1	
R712	EXBV4V331JV	1/32W 330	1	
R713,14	ERJ3GEYJ562V	1/16W 5.6K	2	
R750,51	ERJ3GEYJ562V	1/16W 5.6K	2	
RJ302	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ305	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ501	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ503	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ505	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ507	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ509	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ513	ERJ3GEY0R00V	CHIP JUMPER	1	
RJ702	ERJ3GEY0R00V	CHIP JUMPER	1	
S201	ESE11SV6	SW,LASER ON/OFF	1	
S202	ESE11HS4	SW,REST DET.	1	
S301-06	EVQ11G05R	SW,PUSH	6	
S307,08	EVQPUM02K	SW,S-XBS/A-SHOCK	2	
S309	RSS3A007-1A	SW,MODE	1	
S310	RSS2A010-1A	SW,HOLD	1	
VR701	EVUTUFB11C54	V.R.,VOLUME	1	
X501	RSXY16M9F02T	OSCILLATOR	1	