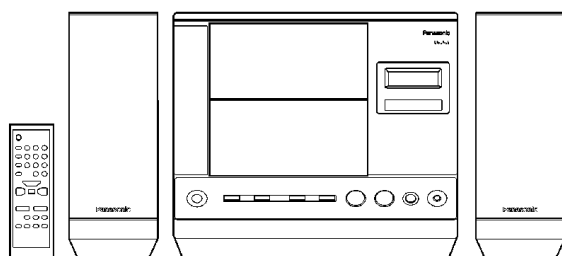


Service Manual

CD Stereo System



SC-EN28P
SA-EN28P
SB-EN28P

Colour

(S).....Silver Type

System SC-EN28P

Main Unit: SA-EN28P

Speakers: SB-EN28P

Please use this manual together with the service manual for Model No.SC-EN27PC, Order No.AD0603021CE.

Specifications

MAIN UNIT

RADIO

Frequency range:

FM; 87.9 - 107.9 MHz (200kHz steps)

87.5 - 108.0 MHz (100kHz steps)

AM; 520 to 1710 kHz (10kHz steps)

Intermediate Frequency:

FM; 10.7MHz

AM; 450kHz

CD PLAYER

Sampling frequency: 44.1kHz

Decoding: 16 bit linear

Beam source: Semiconductor laser (wavelength 795nm)

Number of channels: 2 channel, stereo

Wow and flutter: Less than possible measurement data

D/A converter:

MASH(1 bit DAC)

Terminals

Input:

MUSIC PORT; 3.5mm stereo (33k Ω)

Output:

PHONES: 3.5mm stereo (32 Ω)

GENERAL

Power supply:

AC120V, 60Hz

Power consumption:

16W

Dimensions (W×H×D):

241×206×206mm
(9-1/2"×8-1/8"×8-1/8")

Mass:

3.1kg (6lb. 13oz.) with speakers
1.8kg (3lb. 15oz.) without speakers

SPEAKERS

Full range:

8cm (3-1/8"), 6 Ω ×2

Dimensions (W×H×D):

91mm×206mm×176mm
(3-19/32"×8-1/8"×6-15/16")

Power consumption in standby mode: 2.0W

Panasonic®

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Note:

Specifications are subject to change without notice.

Mass and dimensions are approximate.

MPEG Layer-3 audio decoding technologylicenced from Fraunhofer IIS and Thomson multimedia.**⚠ 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 Note

- This simplified service manual is provided to indicate the main differences between the original model No. SC-EN27PC(SA-EN27PC+SB-EN25P) and the subsequent model No. SC-EN28P(SA-EN28P+SB-EN28P).

2 Replacement Parts List

Note:

- All parts are supplied by ASPC.

2.1. SA-EN28P(CABINET PARTS, ACCESSORY AND PACKAGING)

Ref. No.	Change of Part No.		Part Name & description	PCS	Remarks
	SA-EN27PC	SA-EN28P			
CABINET PARTS					
18	RDG0613	RDG0613-1	2ND GEAR	1	Change
25	RDP0118	RDP0118-1J	LID ROLLER	1	Change
26	RDP0118	RDP0118-1J	LID ROLLER	1	Change
28	RGU2449-S1	RGUW0020-S	FUNCTION BUTTON	1	Change
74	RKQ0274A-K	RKQ0274-K1	CD BASE	1	Change
75	RKS0423A-H	RKS0423-H	BACK CAB	1	Change
98	RMS0879	RMS0879-1	ROLLER BEARING L	1	Change
105	RYK1477A-S	RYKW0089-S	FRONT CAB UNIT	1	Change
138	RFKNAEN25PS	RFKNAEN28PS	CD LID ASS'Y	1	Change
139	RGN2875-K	RGNW0098-K	NAME PLATE	1	Change
140	RQLXS0053	-	LASER CAUTION LABEL	1	Deletion
141	RKU0086A-H	RKU0086-H	TRANS COVER	1	Change
ACCESSORY AND PACKAGING					
A4	RQT8520-P RQT8521-C	RQTW0074-P	O/I BOOK	1	Change (English)
P1	RPG7816	RPGW0208	PACKING CASE	1	Change

2.2. SA-EN28P(ELECTRIC PARTS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
##	REP3875B	CD SERVO ASS'Y		(RTL)
C704	ECEA0JKA331B	6.3V 330U	1	
C705	F1H1C104A042	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C707	F1H1C104A042	16V 0.1U	1	
C709	ECEA0JKA101B	6.3V 100U	1	
C716	F1H1C333A071	16V 0.033U	1	
C717	F1H1C154A068	16V 0.15U	1	
C718	F1H1H272A748	50V 2700P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C719	F1H1H332A013	50V 3300P	1	
C720	ECEA0JKA330B	6.3V 33U	1	
C721	F1H1H472A013	50V 4700P	1	
C722	ECUV1H821JCV	50V 820P	1	
C723	F1H1C104A042	16V 0.1U	1	
C724	F1H1C104A042	16V 0.1U	1	
C726	F1H1H471A737	50V 470P	1	
C727	ECUV1C473KBV	16V 0.047U	1	
C729	F1H1C104A042	16V 0.1U	1	
C730	ECUV1H821KBV	50V 820P	1	
C731	F1H1C223A071	16V 0.022U	1	
C732	F1H1C104A042	16V 0.1U	1	
C733	ECUV1H102KBV	50V 1000P	1	
C734	F1D1H104A046	50V 0.1U	1	
C735	ECEA0JKA101B	6.3V 100U	1	
C736	F1H1C823A071	16V 0.082U	1	
C738	ECEA0JKA221B	6.3V 220U	1	
C739	F1H1C104A042	16V 0.1U	1	
C740	ECUV1E103KBN	25V 0.01U	1	
C741	ECUV1H102KBV	50V 1000P	1	
C742	ECUV1H102KBV	50V 1000P	1	
C743	ECEA0JKA331B	6.3V 330U	1	
C744	ECUV1H221KBV	50V 220P	1	
C745	F1H1H330A860	50V 33P	1	
C746	F1H1H330A860	50V 33P	1	
C747	F1H1C104A042	16V 0.1U	1	
C748	ECUV1H221KBV	50V 220P	1	
C749	F1D1H221A012	50V 220P	1	
C750	F1H1E103A029	25V 0.01U	1	
C751	F1D1H471A012	50V 470P	1	
C752	F1H1C104A042	16V 0.1U	1	
C753	ECEA0JKA101B	6.3V 100U	1	
C754	ECUV1C393KBV	16V 0.039U	1	
C756	F1H1C104A042	16V 0.1U	1	
C757	F1H1C104A042	16V 0.1U	1	
C762	ECEA0JKA100B	6.3V 10U	1	
CN701	K1MN16B00154	CONNECTOR	1	
CN702	REE1362	CD SERVO FFC	1	
FP701	K1MN17B00032	CONNECTOR	1	
IC700	BA5948FPE2	IC	1	
IC701	MN6627953HB	IC	1	
Q700	2SB0709A0L	TRANSISTOR	1	
R704	ERDS2TJ5R6T	1/4W 5.6	1	
R705	ERJ3GEYJ562V	1/10W 5.6K	1	
R706	ERJ3GEYJ822V	1/10W 8.2K	1	
R707	ERJ3GEYJ822V	1/10W 8.2K	1	
R708	ERJ3GEYJ562V	1/10W 5.6K	1	
R710	ERJ3GEYJ101V	1/10W 100	1	
R711	ERJ3GEYJ822V	1/10W 8.2K	1	
R712	ERJ3GEYJ101V	1/10W 100	1	
R713	ERJ3GEYJ682V	1/10W 6.8K	1	
R714	ERJ3GEYJ223V	1/10W 22K	1	
R715	ERJ3GEYJ102V	1/10W 1K	1	
R716	ERJ3GEYJ332V	1/10W 3.3K	1	
R717	ERJ3GEYJ562V	1/10W 5.6K	1	
R718	ERJ3GEYJ5R6V	1/10W 5.6	1	
R719	ERJ3GEYJ683V	1/10W 68K	1	
R720	ERJ3GEYJ562V	1/10W 5.6K	1	
R721	ERJ3GEYJ4R7V	1/10W 4.7	1	
R722	ERJ3GEYJ563V	1/10W 56K	1	
R723	ERJ3GEYJ102V	1/10W 1K	1	
R724	ERJ3GEYJ332V	1/10W 3.3K	1	
R725	ERJ3GEYJ273V	1/10W 27K	1	
R726	ERJ3GEYJ102V	1/10W 1K	1	
R727	ERJ3GEYJ393V	1/10W 39K	1	
R728	ERJ3GEYJ562V	1/10W 5.6K	1	
R729	ERJ3GEYJ562V	1/10W 5.6K	1	
R730	ERJ3GEYJ562V	1/10W 5.6K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R731	ERJ3GEYJ823V	1/10W 82K	1	
R732	ERJ3GEYJ821V	1/10W 820	1	
R733	ERJ3GEYJ5R6V	1/10W 5.6	1	
R734	ERJ3GEYJ101V	1/10W 100	1	
R735	ERJ3GEYJ683V	1/10W 68K	1	
R736	ERJ3GEYJ683V	1/10W 68K	1	
R737	ERJ3GEYJ102V	1/10W 1K	1	
R738	ERJ3GEYJ102V	1/10W 1K	1	
R739	ERJ3GEYJ683V	1/10W 68K	1	
R740	ERJ3GEYJ105V	1/10W 1M	1	
R741	ERJ3GEYJ101V	1/10W 100	1	
R742	ERJ3GEYJ102V	1/10W 1K	1	
R743	ERJ3GEYJ102V	1/10W 1K	1	
R744	ERJ3GEY0R00V	1/10W 0	1	
R747	ERJ3GEYJ683V	1/10W 68K	1	
R748	ERJ3GEYJ683V	1/10W 68K	1	
R749	ERJ3GEYJ683V	1/10W 68K	1	
R750	ERJ3GEYJ683V	1/10W 68K	1	
R751	ERJ3GEY0R00V	1/10W 0	1	
S700	K0L1BA000109	RESET SWITCH	1	
X700	H2A169500011	CRYSTAL OSC	1	
##	REP4044B	MAIN PCB ASS'Y		(RTL)
C1	ECJ1VC1H470J	50V 47P	1	
C2	ECJ1VC1H100D	50V 10P	1	
C3	ECJ1VB1C333K	16V 0.033U	1	
C4	ECEA1CKA100B	16V 10U	1	
C5	ECJ1VB1C473K	16V 0.047U	1	
C6	ECJ1VB1H102K	50V 1000P	1	
C7	ECJ1VB1H102K	50V 1000P	1	
C8	ECJ1VC1H070D	50V 7P	1	
C9	ECJ1VB1E103K	25V 0.01U	1	
C10	ECJ1VB1E103K	25V 0.01U	1	
C11	ECJ1VB1H102K	50V 1000P	1	
C12	ECJ1VB1C473K	16V 0.047U	1	
C13	ECJ1VC1H150J	50V 15P	1	
C15	ECJ1VB1C473K	16V 0.047U	1	
C16	ECJ1VC1H150J	50V 15P	1	
C17	ECEA1HKA3R3B	50V 3.3U	1	
C18	ECJ1VB1E103K	25V 0.01U	1	
C19	ECEA1HKA010B	50V 1U	1	
C20	ECEA1AKA101B	10V 100U	1	
C21	ECEA1HKA010B	50V 1U	1	
C22	ECEA1HKAR47B	50V 0.47U	1	
C23	ECEA1AKA101B	10V 100U	1	
C24	ECEA1AKA220B	10V 22U	1	
C25	ECJ1VB1C183K	16V 0.018U	1	
C26	ECJ1VB1E103K	25V 0.01U	1	
C27	ECJ1VB1C183K	16V 0.018U	1	
C28	ECJ1VB1H102K	50V 1000P	1	
C29	ECJ1VB1H102K	50V 1000P	1	
C30	ECEA1HKA010B	50V 1U	1	
C31	ECEA1HKA010B	50V 1U	1	
C32	F2A1H4R7B318	50V 4.7U	1	
C33	ECJ1VC1H101K	50V 100P	1	
C34	ECJ1VC1H270J	50V 27P	1	
C35	ECJ1VC1H101K	50V 100P	1	
C36	ECJ1VC1H220J	50V 22P	1	
C37	ECJ1VC1H101K	50V 100P	1	
C39	ECJ1VB1H102K	50V 1000P	1	
C40	ECEA1CKA101B	16V 100U	1	
C41	ECJ1VB1H331K	50V 330P	1	
C43	ECJ1VB1C473K	16V 0.047U	1	
C44	ECJ1VB1C223K	16V 0.023U	1	
C46	ECJ1VB1H222K	50V 2200P	1	
C47	F1D1H100A015	50V 10U	1	
C48	ECJ1VB1H102K	50V 1000P	1	
C51	ECJ1VC1H070D	50V 7P	1	
C52	ECJ1VB1H102K	50V 1000P	1	
C103	F1H1C104A042	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C104	F1H1C104A042	16V 0.1U	1	
C105	F1H1C104A042	16V 0.1U	1	
C106	ECJ1VB1H102K	50V 1000P	1	
C107	ECJ1VB1H102K	50V 1000P	1	
C108	ECJ1VB1H102K	50V 1000P	1	
C109	ECJ1VB1C683K	16V 0.068U	1	
C110	F1H1C104A042	16V 0.1U	1	
C111	ECJ1VB1E103K	25V 0.01U	1	
C112	ECJ1VB1E153K	25V 0.015U	1	
C113	F2A1HR22B318	50V 0.22U	1	
C114	ECJ1VB1C473K	16V 0.047U	1	
C115	ECJ1VB1C105K	16V 1U	1	
C116	ECEA1HKA010B	50V 1U	1	
C117	F1H1H682A013	50V 6800P	1	
C118	ECJ1VB1C333K	16V 0.033U	1	
C119	ECJ1VB1E153K	25V 0.015U	1	
C122	ECJ1VB1C473K	16V 0.047U	1	
C203	F1H1C104A042	16V 0.1U	1	
C204	F1H1C104A042	16V 0.1U	1	
C205	F1H1C104A042	16V 0.1U	1	
C206	ECJ1VB1H102K	50V 1000P	1	
C207	ECJ1VB1H102K	50V 1000P	1	
C208	ECJ1VB1H102K	50V 1000P	1	
C209	ECJ1VB1C683K	16V 0.068U	1	
C210	F1H1C104A042	16V 0.1U	1	
C211	ECJ1VB1E103K	25V 0.01U	1	
C212	ECJ1VB1E153K	25V 0.015U	1	
C213	F2A1HR22B318	50V 0.22U	1	
C214	ECJ1VB1C473K	16V 0.047U	1	
C215	ECJ1VB1C105K	16V 1U	1	
C216	ECEA1HKA010B	50V 1U	1	
C217	F1H1H682A013	50V 6800P	1	
C218	ECJ1VB1C333K	16V 0.033U	1	
C219	ECJ1VB1E153K	25V 0.015U	1	
C222	ECJ1VB1C473K	16V 0.047U	1	
C301	ECJ1VB1H102K	50V 1000P	1	
C305	ECJ1VB1H221K	50V 220P	1	
C309	ECEA1AKA470B	10V 47U	1	
C310	ECEA1AKA101B	10V 100U	1	
C311	ECEA1HKAR33B	50V 0.33U	1	
C312	ECJ1VB1H221K	50V 220P	1	
C313	ECJ1VB1H221K	50V 220P	1	
C315	ECEA0JKA101B	6.3V 100U	1	
C353	F2A1A221B054	10V 220U	1	
C356	ECJ1VB1H221K	50V 220P	1	
C357	ECJ1VB1H221K	50V 220P	1	
C358	F2A1A102B057	10V 1000U	1	
C359	ECJ1VB1H102K	50V 1000P	1	
C402	F1H1C224A074	16V 0.22U	1	
C403	ECJ1VB1H471K	50V 470P	1	
C407	F2A1A102B057	10V 1000U	1	
C502	F1H1C224A074	16V 0.22U	1	
C503	ECJ1VB1H471K	50V 470P	1	
C507	F2A1A102B057	10V 1000U	1	
C601	ECEA1CKA470B	16V 47U	1	
C602	ECEA1CKA100B	16V 10U	1	
C603	ECJ1VB1H102K	50V 1000P	1	
C604	ECEA1EKA100B	25V 10U	1	
C608	ECEA1EKA100B	25V 10U	1	
C609	ECEA1EKA100B	25V 10U	1	
C610	ECEA1EKA100B	25V 10U	1	
C611	F2B0J472A006	6.3V 4700U	1	
C612	ECEA0JKA101B	6.3V 100U	1	
C615	ECEA1CKA101B	16V 100U	1	
C616	F2B1E332A023	25V 3300U	1	
C801	ECEA1AKA101B	10V 100U	1	
C802	ECJ1VB1E103K	25V 0.01U	1	
C803	ECJ1VB1H102K	50V 1000P	1	
C804	ECJ1VB1H102K	50V 1000P	1	
C805	ECJ1VB1E103K	25V 0.01U	1	
C806	ECJ1VB1H102K	50V 1000P	1	
C807	ECJ1VC1H560J	50V 56P	1	
C808	ECJ1VC1H560J	50V 56P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C809	ECJ1VB1H102K	50V 1000P	1	
C810	ECJ1VC1H390J	50V 39P	1	
C811	ECJ1VC1H560J	50V 56P	1	
C812	F1H1H180A860	50V 18P	1	
C813	F1H1H180A860	50V 18P	1	
C814	F2A1H2R2B318	50V 2.2U	1	
C815	ECEA1HKA010B	50V 1U	1	
C817	ECJ1VB1H102K	50V 1000P	1	
C818	ECJ1VB1H102K	50V 1000P	1	
C819	ECJ1VB1H102K	50V 1000P	1	
C820	ECEA1EKA100B	25V 10U	1	
C821	ECJ1VB1H102K	50V 1000P	1	
C822	ECJ1VB1H102K	50V 1000P	1	
C826	ECJ1VB1H102K	50V 1000P	1	
C827	F2A1A331B055	10V 330U	1	
C828	ECJ1VB1H222K	50V 2200P	1	
C829	ECJ1VB1H222K	50V 2200P	1	
C830	ECJ1VB1H102K	50V 1000P	1	
C901	F1D1H103A046	50V 0.01U	1	
C902	F1D1H103A046	50V 0.01U	1	
C903	F1D1H103A046	50V 0.01U	1	
C904	F1D1H103A046	50V 0.01U	1	
C1001	ECEA1CKA100B	16V 10U	1	
C1002	ECJ1VB1C105K	16V 1U	1	
CF1	J0B1075A0138	FM CERAMIC FILTER	1	
CF2	J0B4503A0074	AM FILTER	1	
P1	K1KA03AA0186	CONNECTOR(3P)	1	
P351	K1KA06BA0061	CONNECTOR	1	
P352	K1KA02BA0055	BATT PLUG	1	
P601	K1KA06BA0061	CONNECTOR	1	
P901	K1KA04BA0055	CONNECTOR	1	
P1001	K1KA03BA0055	CONNECTOR	1	
D1	B0CDAD000010	DIODE	1	
D2	B0CDAB000019	DIODE	1	
D3	B0CDAB000019	DIODE	1	
D4	B0AACK000004	DIODE	1	
D301	MAZ40560MF	DIODE	1	
D601	MAZ40510MF	DIODE	1	
D602	B0EAKM000118	DIODE	1	
D603	B0EAKM000118	DIODE	1	
D604	B0EAKM000118	DIODE	1	
D605	B0AACK000004	DIODE	1	
D607	B0AACK000004	DIODE	1	
D608	MAZ40910LF	DIODE	1	
D610	B0AACK000004	DIODE	1	
D611	B0AACK000004	DIODE	1	
D612	B0AAEF000001	DIODE	1	
D613	B0AAEF000001	DIODE	1	
D614	MAZ40620MF	DIODE	1	
D615	MAZ40470MF	DIODE	1	
D801	B0AACK000004	DIODE	1	
D802	B0AACK000004	DIODE	1	
D803	B0AAEF000001	DIODE	1	
D901	B0EAKM000118	DIODE	1	
D902	B0EAKM000118	DIODE	1	
D903	B0EAKM000118	DIODE	1	
D904	B0EAKM000118	DIODE	1	
D906	B0AACK000004	DIODE	1	
D1001	MAZ40820MF	DIODE	1	
D1002	LNG4A4CN4E	LED	1	
D1003	MAZ40620MF	DIODE	1	
F901	K5D162AQ0004	FUSE	1	△
FFC801	REE1363	LCD FFC	1	
FP801	K1MN26B00010	CONNECTOR	1	
IC1	C1BB00001120	TUNER IC	1	
IC301	C1BB00000732	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC351	C0GAE0000007	MOTOR DRIVER IC	1	
IC601	C0AAAA000036	POWER IC	1	
IC801	MN101C74FAD	MICON IC	1	
IP602	K5G251A00008	FUSE PROTECTOR	1	△
JK601	K2HC103A0031	JACK	1	
JK602	K4AC04B00008	TERMINAL	1	
JK603	K2HC1YYA0002	JACK	1	
JK901	K2AB2B000007	AC INLET	1	△
JW351	REX1227	MOTER TO MAIN WIRE	1	
JW352	REX1228	SW TO MAIN WIRE	1	
JW601	REX1227	MOTER TO MAIN WIRE	1	
JW801	RWJ9002070SS	LEAF SW WIRE	1	
JW901	REX1226	POWER TO AMIN WIRE	1	
JW1001	REX1229	SENSOR TO MAIN WIRE	1	
L1	RLQY30S1W-F	FM COIL	1	
L3	RLQY30S1W-F	FM COIL	1	
L5	G0ZZ00002174	FM COIL	1	
L7	G2BPC0000017	COIL	1	
L8	RLQZP101KT-Y	AXIAL COIL	1	
L51	G2A390C00001	AM RF COIL	1	
L601	RLQZP101KT-Y	AXIAL COIL	1	
L801	G0C2R2JA0019	FIXED INDUCTOR	1	
L802	G0C2R2JA0019	FIXED INDUCTOR	1	
L901	ELF15N035AN	POWER COIL	1	
Q1	2SD1819ARL	TRANSISTOR	1	
Q301	KTA2014GRRTK	TRANSISTOR	1	
Q302	B1AACF000117	TRANSISTOR	1	
Q303	B1AACF000117	TRANSISTOR	1	
Q401	B1ABGD000021	TRANSISTOR	1	
Q501	B1ABGD000021	TRANSISTOR	1	
Q603	B1ACND000003	TRANSISTOR	1	
Q604	2SD1819ARL	TRANSISTOR	1	
Q605	B1BCCG000002	TRANSISTOR	1	
Q606	KTA2014GRRTK	TRANSISTOR	1	
Q607	2SD1819ARL	TRANSISTOR	1	
Q608	B1ACND000003	TRANSISTOR	1	
Q611	B1ACND000003	TRANSISTOR	1	
Q612	2SD1819ARL	TRANSISTOR	1	
Q613	KTA2014GRRTK	TRANSISTOR	1	
Q615	B1BAAJ000003	TRANSISTOR	1	
Q617	2SD1819ARL	TRANSISTOR	1	
Q801	2SD1819ARL	TRANSISTOR	1	
Q802	2SD1819ARL	TRANSISTOR	1	
QR609	UNR521400L	TRANSISTOR	1	
QR614	UNR521F00L	TRANSISTOR	1	
QR618	UNR521F00L	TRANSISTOR	1	
QR619	UNR521F00L	TRANSISTOR	1	
QR620	UNR511100L	TRANSISTOR	1	
QR621	UNR511100L	TRANSISTOR	1	
QR803	UNR521300L	TRANSISTOR	1	
QR804	UNR511100L	TRANSISTOR	1	
R1	ERJ3GEYJ103V	1/10W 10K	1	
R2	ERJ3GEY0R00V	1/10W 0	1	
R3	ERJ3GEYJ332V	1/10W 3.3K	1	
R4	ERJ3GEYJ104V	1/10W 100K	1	
R5	ERJ3GEYJ680V	1/10W 68	1	
R6	ERJ3GEYJ104V	1/10W 100K	1	
R7	ERJ3GEYJ104V	1/10W 100K	1	
R8	ERJ3GEYJ103V	1/10W 10K	1	
R9	ERJ3GEY0R00V	1/10W 0	1	
R10	ERJ3GEYJ104V	1/10W 100K	1	
R11	ERJ3GEYJ332V	1/10W 3.3K	1	
R12	ERJ3GEYJ152V	1/10W 1.5K	1	
R13	ERJ3GEYJ332V	1/10W 3.3K	1	
R14	ERJ3GEYJ472V	1/10W 4.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R16	ERJ3GEYJ103V	1/10W 10K	1	
R17	ERJ3GEYJ103V	1/10W 10K	1	
R18	ERJ3GEYJ223V	1/10W 22K	1	
R20	ERJ3GEYJ103V	1/10W 10K	1	
R22	ERJ3GEYJ103V	1/10W 10K	1	
R23	ERJ3GEYJ223V	1/10W 22K	1	
R24	ERJ3GEYJ223V	1/10W 22K	1	
R25	ERJ3GEYJ223V	1/10W 22K	1	
R28	ERJ3GEYJ104V	1/10W 100K	1	
R29	ERJ3GEYJ102V	1/10W 1K	1	
R30	ERJ3GEYJ393V	1/10W 39K	1	
R31	ERJ3GEYJ472V	1/10W 4.7K	1	
R32	ERJ3GEYJ330V	1/10W 33	1	
R33	ERJ3GEYJ472V	1/10W 4.7K	1	
R34	ERJ3GEYJ182V	1/10W 1.8K	1	
R35	ERJ3GEYJ472V	1/10W 4.7K	1	
R36	ERJ3GEYJ472V	1/10W 4.7K	1	
R37	ERJ3GEY0R00V	1/10W 0	1	
R101	ERJ3GEYJ473V	1/10W 47K	1	
R102	ERJ3GEYJ562V	1/10W 5.6K	1	
R103	ERJ3GEYJ473V	1/10W 47K	1	
R104	ERJ3GEYJ562V	1/10W 5.6K	1	
R105	ERJ3GEYJ562V	1/10W 5.6K	1	
R106	ERDS2TJ682T	1/4W 6.8K	1	
R107	ERJ3GEYJ223V	1/10W 22K	1	
R108	ERJ3GEYJ332V	1/10W 3.3K	1	
R109	ERJ3GEYJ103V	1/10W 10K	1	
R110	ERJ3GEYJ392V	1/10W 3.9K	1	
R111	ERJ3GEYJ333V	1/10W 33K	1	
R112	ERJ3GEYJ682V	1/10W 6.8K	1	
R113	ERJ3GEYJ472V	1/10W 4.7K	1	
R201	ERJ3GEYJ473V	1/10W 47K	1	
R202	ERJ3GEYJ562V	1/10W 5.6K	1	
R203	ERJ3GEYJ473V	1/10W 47K	1	
R204	ERJ3GEYJ562V	1/10W 5.6K	1	
R205	ERJ3GEYJ562V	1/10W 5.6K	1	
R206	ERDS2TJ682T	1/4W 6.8K	1	
R207	ERJ3GEYJ223V	1/10W 22K	1	
R208	ERJ3GEYJ332V	1/10W 3.3K	1	
R209	ERJ3GEYJ103V	1/10W 10K	1	
R210	ERJ3GEYJ392V	1/10W 3.9K	1	
R211	ERJ3GEYJ333V	1/10W 33K	1	
R212	ERJ3GEYJ682V	1/10W 6.8K	1	
R213	ERJ3GEYJ472V	1/10W 4.7K	1	
R301	ERJ3GEYJ223V	1/10W 22K	1	
R302	ERJ3GEYJ223V	1/10W 22K	1	
R303	ERJ3GEYJ223V	1/10W 22K	1	
R304	ERJ3GEYJ223V	1/10W 22K	1	
R305	ERJ3GEYJ103V	1/10W 10K	1	
R306	ERJ3GEYJ102V	1/10W 1K	1	
R307	ERJ3GEYJ102V	1/10W 1K	1	
R308	ERJ3GEYJ102V	1/10W 1K	1	
R309	ERJ3GEYJ102V	1/10W 1K	1	
R312	ERJ3GEYJ102V	1/10W 1K	1	
R313	ERJ3GEYJ102V	1/10W 1K	1	
R316	ERJ3GEYJ334V	1/10W 330K	1	
R317	ERJ3GEYJ334V	1/10W 330K	1	
R318	ERDS2TJ330T	1/4W 33	1	
R319	ERDS2TJ330T	1/4W 33	1	
R322	ERJ3GEYJ470V	1/10W 47	1	
R323	ERJ3GEYJ331V	1/10W 330	1	
R325	ERJ3GEYJ152V	1/10W 1.5K	1	
R402	ERJ3GEYJ102V	1/10W 1K	1	
R403	ERJ3GEYJ271V	1/10W 270	1	
R409	ERDS2TJ333T	1/4W 33K	1	
R502	ERJ3GEYJ102V	1/10W 1K	1	
R503	ERJ3GEYJ271V	1/10W 270	1	
R509	ERDS2TJ333T	1/4W 33K	1	
R601	ERDS2TJ822T	1/4W 8.2K	1	
R603	ERJ3GEYJ104V	1/10W 100K	1	
R604	ERJ3GEYJ273V	1/10W 27K	1	
R605	ERJ3GEYJ102V	1/10W 1K	1	
R607	ERJ3GEYJ222V	1/10W 2.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R608	ERJ3GEYJ333V	1/10W 33K	1	
R612	ERJ3GEYJ222V	1/10W 2.2K	1	
R613	ERJ3GEYJ223V	1/10W 22K	1	
R614	ERDS2TJ151T	1/4W 150	1	
R615	ERJ3GEYJ1R0V	1/10W 1	1	
R616	ERDS2TJ471T	1/4W 470	1	
R617	ERJ3GEYJ101V	1/10W 100	1	
R618	ERJ3GEYJ681V	1/10W 680	1	
R619	ERJ3GEYJ681V	1/10W 680	1	
R620	ERJ3GEYJ2R2V	1/10W 2.2	1	
R621	ERDS2TJ1R0T	1/4W 1	1	
R622	ERDS2TJ1R0T	1/4W 1	1	
R623	ERDS2TJ471T	1/4W 470	1	
R624	ERDS2TJ471T	1/4W 470	1	
R625	ERDS2TJ121T	1/4W 120	1	
R626	ERDS2TJ121T	1/4W 120	1	
R627	ERDS2TJ221T	1/4W 220	1	
R628	ERJ3GEYJ102V	1/10W 1K	1	
R629	ERJ3GEYJ102V	1/10W 1K	1	
R630	ERJ3GEYJ221V	1/10W 220	1	
R631	ERJ3GEYJ102V	1/10W 1K	1	
R632	ERJ3GEYJ472V	1/10W 4.7K	1	
R633	ERJ3GEYJ103V	1/10W 10K	1	
R634	ERJ3GEYJ101V	1/10W 100	1	
R635	ERJ3GEYJ222V	1/10W 2.2K	1	
R636	ERJ3GEYJ222V	1/10W 2.2K	1	
R637	ERJ3GEYJ681V	1/10W 680	1	
R638	ERJ3GEYJ153V	1/10W 15K	1	
R639	ERJ3GEYJ102V	1/10W 1K	1	
R640	ERJ3GEYJ153V	1/10W 15K	1	
R641	ERJ3GEYJ102V	1/10W 1K	1	
R642	ERJ3GEYJ562V	1/10W 5.6K	1	
R643	ERJ3GEYJ273V	1/10W 27K	1	
R644	ERJ3GEYJ562V	1/10W 5.6K	1	
R801	ERJ3GEYJ123V	1/10W 12K	1	
R802	ERJ3GEYJ104V	1/10W 100K	1	
R803	ERJ3GEYJ104V	1/10W 100K	1	
R804	ERJ3GEYJ104V	1/10W 100K	1	
R807	ERJ3GEYJ332V	1/10W 3.3K	1	
R808	ERJ3GEYJ332V	1/10W 3.3K	1	
R809	ERJ3GEYJ224V	1/10W 220K	1	
R811	ERJ3GEYJ473V	1/10W 47K	1	
R812	ERJ3GEYJ102V	1/10W 1K	1	
R813	ERJ3GEYJ102V	1/10W 1K	1	
R814	ERJ3GEYJ102V	1/10W 1K	1	
R815	ERJ3GEYJ102V	1/10W 1K	1	
R816	ERJ3GEYJ102V	1/10W 1K	1	
R817	ERJ3GEYJ183V	1/10W 18K	1	
R818	ERJ3GEYJ103V	1/10W 10K	1	
R819	ERJ3GEYJ472V	1/10W 4.7K	1	
R820	ERJ3GEYJ103V	1/10W 10K	1	
R822	ERJ3GEYJ102V	1/10W 1K	1	
R823	ERJ3GEYJ102V	1/10W 1K	1	
R824	ERJ3GEYJ224V	1/10W 220K	1	
R825	ERJ3GEYJ123V	1/10W 12K	1	
R826	ERJ3GEYJ392V	1/10W 3.9K	1	
R827	ERJ3GEYJ472V	1/10W 4.7K	1	
R828	ERJ3GEYJ102V	1/10W 1K	1	
R829	ERJ3GEYJ102V	1/10W 1K	1	
R830	ERJ3GEYJ104V	1/10W 100K	1	
R831	ERJ3GEYJ104V	1/10W 100K	1	
R832	ERJ3GEYJ153V	1/10W 15K	1	
R833	ERJ3GEYJ104V	1/10W 100K	1	
R835	ERJ3GEYJ103V	1/10W 10K	1	
R836	ERJ3GEYJ103V	1/10W 10K	1	
R837	ERJ3GEYJ103V	1/10W 10K	1	
R838	ERJ3GEYJ104V	1/10W 100K	1	
R839	ERJ3GEYJ104V	1/10W 100K	1	
R840	ERJ3GEYJ153V	1/10W 15K	1	
R841	ERJ3GEYJ821V	1/10W 820	1	
R846	ERJ3GEYJ152V	1/10W 1.5K	1	
R847	ERJ3GEYJ222V	1/10W 2.2K	1	
R848	ERJ3GEYJ272V	1/10W 2.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R849	ERJ3GEYJ392V	1/10W 3.9K	1	
R850	ERJ3GEYJ562V	1/10W 5.6K	1	
R851	ERJ3GEYJ822V	1/10W 8.2K	1	
R852	ERDS2TJ153T	1/4W 15K	1	
R860	ERJ3GEYJ104V	1/10W 100K	1	
R861	ERJ3GEYJ104V	1/10W 100K	1	
R862	ERJ3GEYJ820V	1/10W 82	1	
R864	ERJ3GEYJ102V	1/10W 1K	1	
R865	ERJ3GEYJ102V	1/10W 1K	1	
R874	ERJ3GEYJ104V	1/10W 100K	1	
R875	ERJ3GEYJ104V	1/10W 100K	1	
R876	ERJ3GEY0R00V	1/10W 0	1	
R877	ERJ3GEY0R00V	1/10W 0	1	
R878	ERJ3GEY0R00V	1/10W 0	1	
R901	ERDS2TJ102T	1/4W 1K	1	
R1003	ERDS2TJ680T	1/4W 68	1	
S351	K0L1BB000005	SW FOR SMALL SIGN USE	1	
S352	K0L1BB000005	SW FOR SMALL SIGN USE	1	
S801	EVQ21405R	SW	1	
S802	EVQ21405R	SW	1	
S803	EVQ21405R	SW	1	
S804	EVQ21405R	SW	1	
S805	EVQ21405R	SW	1	
S806	EVQ21405R	SW	1	
S807	EVQ21405R	SW	1	
S808	EVQ21405R	SW	1	
T1	G2BAC0000053	IFT	1	
T901	G4C4ABD00011	POWER TRANSFORMERS	1	△
X1	J0B1075A0137	DISCRIMINATOR	1	
X2	H0A750200020	75KHZ X'TAL	1	
X801	H0A327200097	CRYSTAL OSCILLATOR	1	
X802	H2A800400011	PIEZO-CERMIC RESONATORS	1	
Z801	L5ACAEC00028	LCD	1	
Z1001	B3RAD0000074	SENSOR	1	
ZA901	K3GE1ZA00011	FUSE HOLDER	1	
ZA902	K3GE1ZA00011	FUSE HOLDER	1	
PCB1	REP3875B	CD SERVO ASS'Y	1	(RTL)
PCB2	REP4044B	MAIN PCB ASS'Y	1	(RTL)

2.3. SB-EN28P

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
301	EAS8P198A	SPEAKER	1	
302	RMA1981	SP ANGLE A	1	
303	RMA1981	SP ANGLE A	1	
304	RMA1982	SP ANGLE B	1	
305	RMA1982	SP ANGLE B	1	
306	RFKHBEN25PS	SP BACK CAB ASS'Y	1	
306-1	RKAX0011-K	LEG FELT	1	
306-2	RKAX0011-K	LEG FELT	1	
306-3	RKAX0011-K	LEG FELT	1	
306-4	RKAX0011-K	LEG FELT	1	
307	RFKGBEN28PS	SP FRONT CAB ASS'Y	1	
308	XTV3+14GFJ	SCREW	1	
309	XTV3+14GFJ	SCREW	1	
310	XTV3+14GFJ	SCREW	1	
311	XTV3+14GFJ	SCREW	1	
312	XTV3+14GFJ	SCREW	1	
313	XTV3+14GFJ	SCREW	1	
314	XTV3+14GFJ	SCREW	1	
315	XTV3+14GFJ	SCREW	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
316	XTV3+146FJ	SCREW	1	
317	XTV3+146FJ	SCREW	1	
318	RQLA1030	SP CAUTION LABEL	1	
319	RGW0101-K	SP NAME PLATE	1	

3 Schematic Diagram

3.1. Schematic Diagram Notes

(All schematic diagrams may be modified at any time with the development of new technology.)

Notes:

S351:	CD TOP DETECTION Switch in "OFF" position.
S352:	CD BOTTOM DETECTION Switch in "OFF" position.
S700:	REST Switch in "OFF" position.
S801:	CD switch
S802:	TUNER switch
S803:	VOL + switch.
S804:	VOL - switch
S805:	FWD- Skip Switch ()
S806:	REV- Skip Switch ()
S807:	CD OPEN/CLOSE Switch
S808:	POWER OFF/TAPE Switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark :	CD STOP
() :	CD PLAY
< > :	FM
[] :	AM

- Battery Current

Vol min.:	120mA (CD)
	103mA (FM)
	102mA (AM)
Vol max.:	118mA (CD)
	102mA (FM)
	100mA (AM)

– Measurement instruction

CD:	1kHz, 0dB
FM:	60dB, 30% Mod.
AM:	74dB/m, 30% Mod.

- Importance safety notice:**

Components identified by  ; 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 manufacturer's specified parts shown in the parts list.

Caution!

- IC, LSI and VLSI are sensitive to static electricity.
- Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminium

foil.

- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- No mark: All VR is set as a center position.

Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purpose of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

- IC and LSI are sensitive to static electricity.
- Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

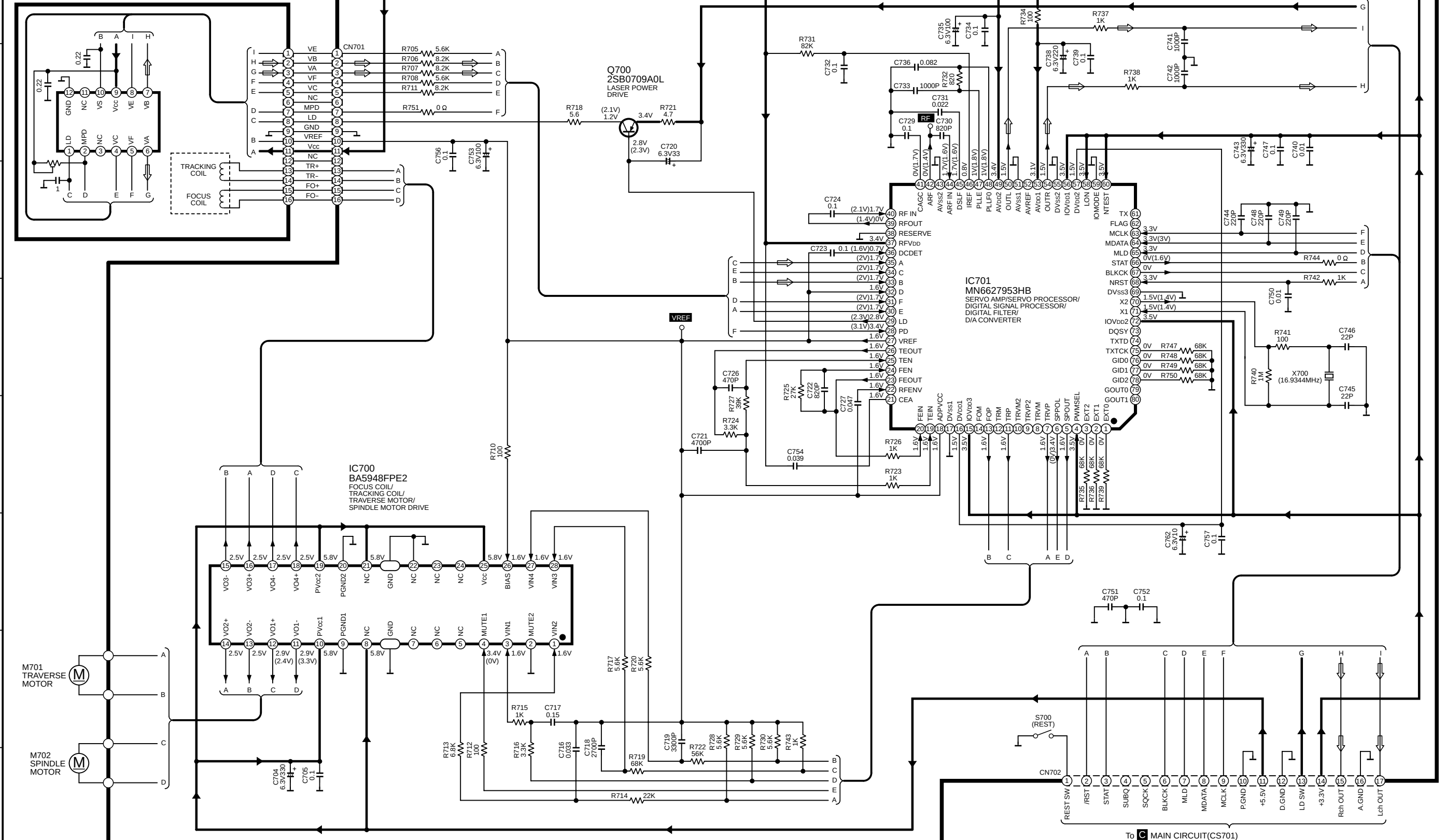
3.2. Schematic Diagram

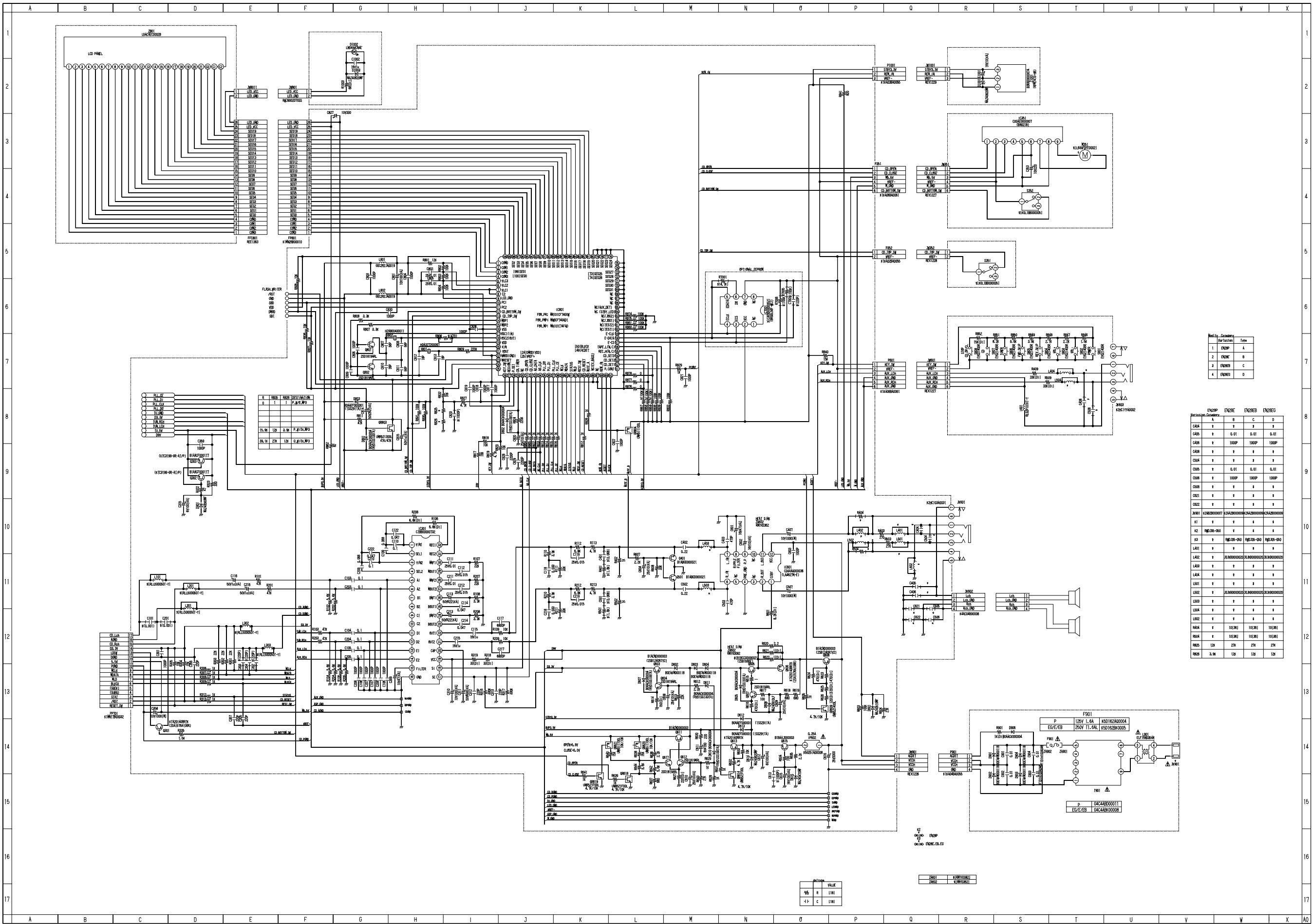
SCHEMATIC DIAGRAM-1

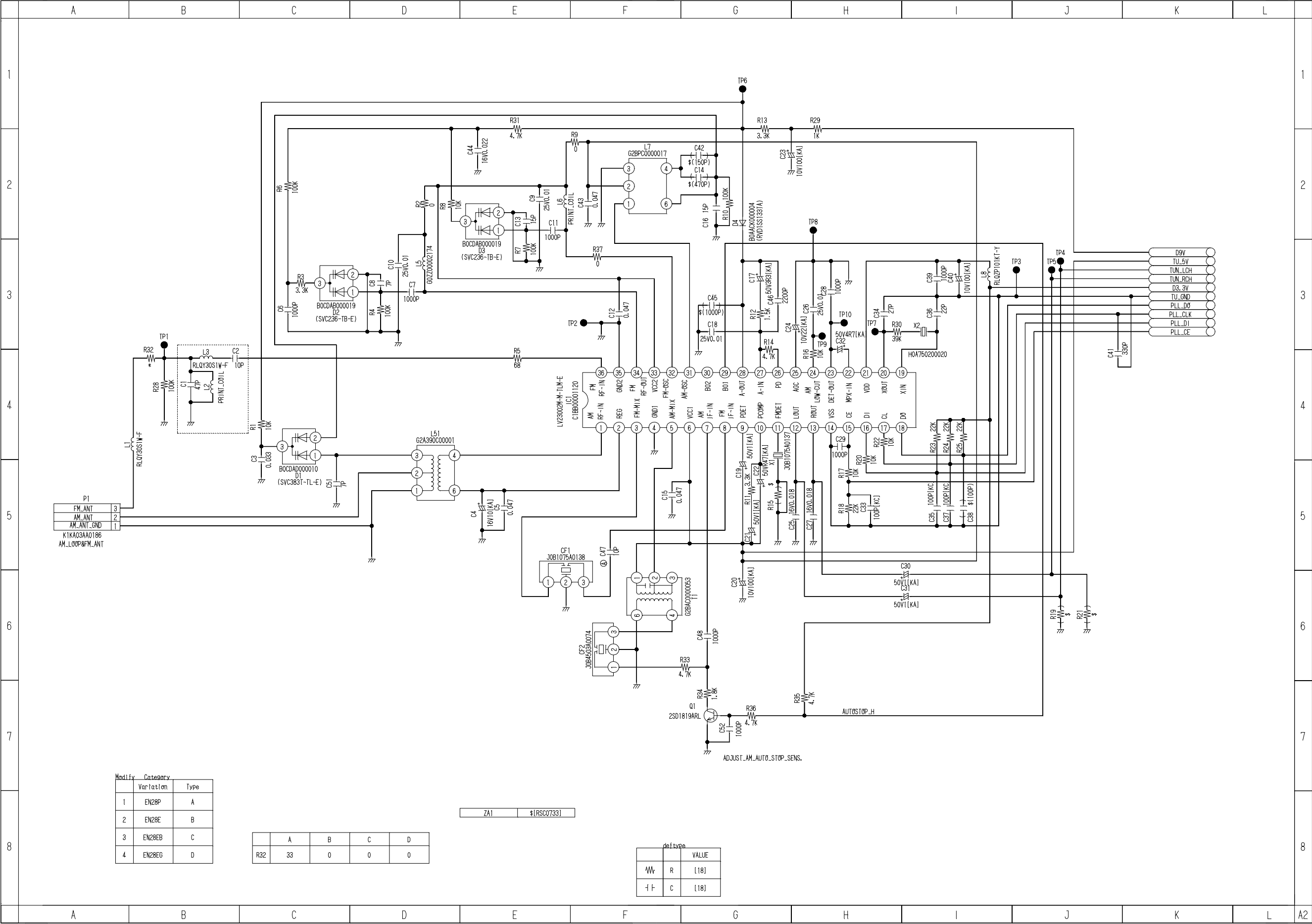
NOTE:

The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

OPTICAL PICK-UP





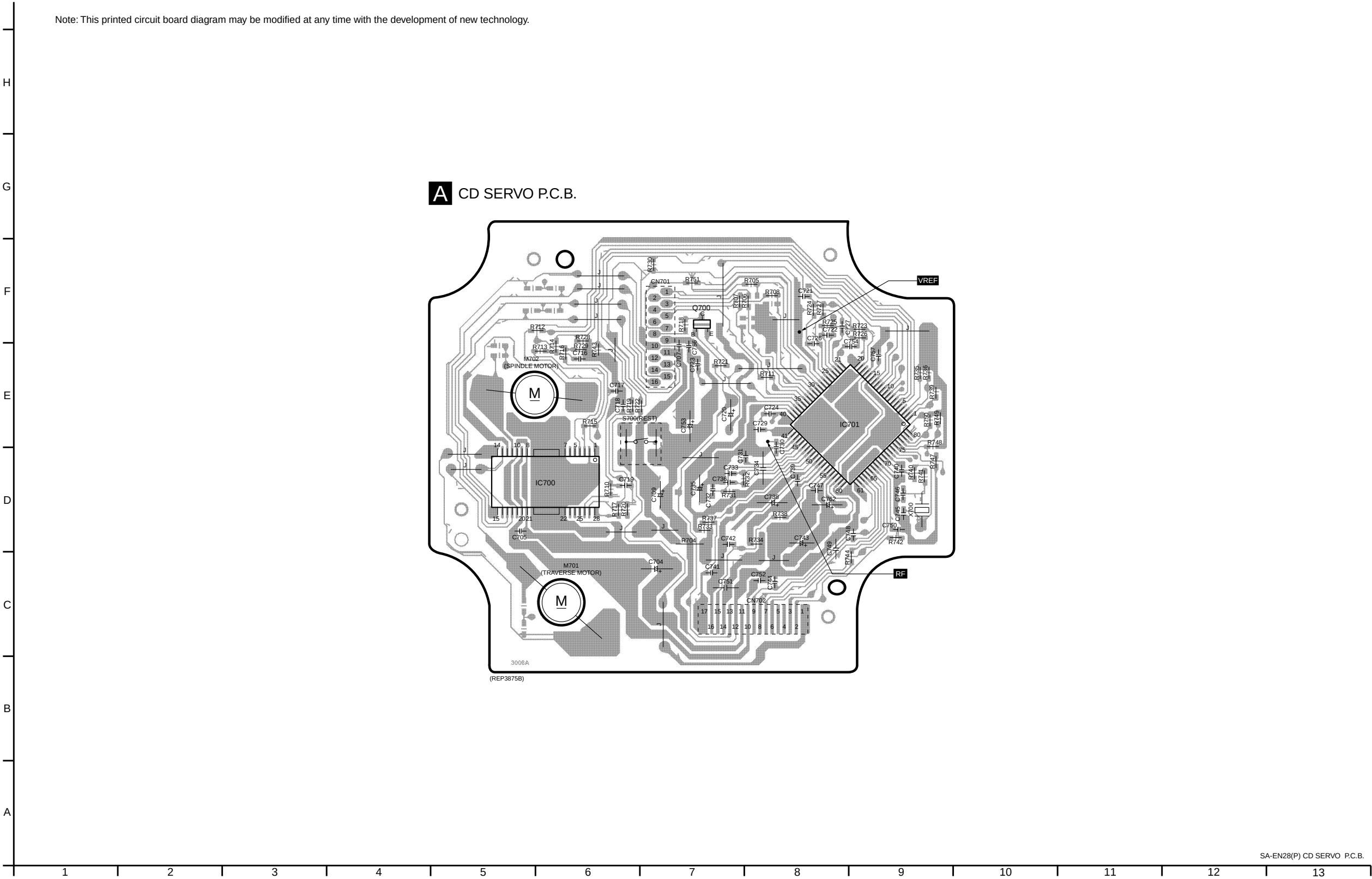


3.3. Voltage Value

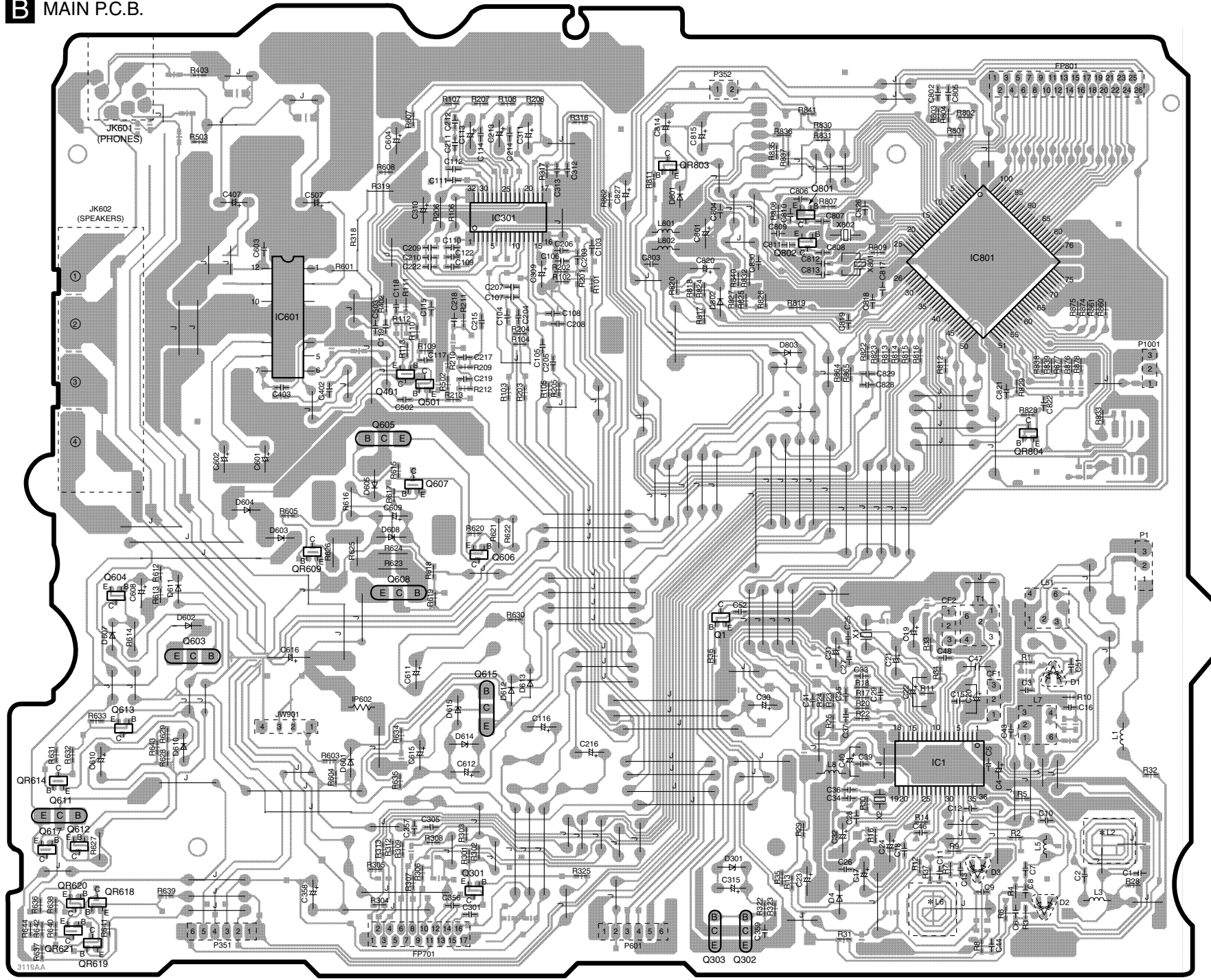
Ref.No.	IC1																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	2.3	2.3	2.5	0	5	5	2.3	2.3	3.9	3.9	2.9	2.2	2.2	0	0	3.3	3.3	3.3	0.3	1.2
CD PLAY	2.3	2.3	2.5	0	5	5	2.3	2.3	3.9	3.7	3.3	2.2	2.2	0	0	3.3	3.3	3.3	0.3	1.2
Ref.No.	IC1																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
CD STOP	3.4	2.2	2.6	0	1.4	2	2	2	0.1	0.1	5.1	5.1	5.1	5.1	0	1				
CD PLAY	3.4	2.2	0.9	1.9	0.9	2	2	0.8	0.1	0.1	5.1	5.1	5.1	5.1	0	0				
Ref.No.	IC301																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	4.1	4.5	4	4.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.4	4.4	0	3.3	0	8.8	3.3
CD PLAY	4.1	4.5	4	4.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.4	4.4	0	3.3	0	8.8	0.7
Ref.No.	IC301																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32								
CD STOP	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.4	4.3	4.4	4.4								
CD PLAY	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.4	4.3	4.4	4.4								
Ref.No.	IC351																			
Mode	1	2	3	4	5	6	7	8	9											
CD STOP	0	0	0	0	0	5.6	0	0	0											
CD PLAY	0	0	0	0	0	5.6	0	0	0											
Ref.No.	IC601																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12								
CD STOP	1.5	6.9	0	0	0	1.4	1.4	6.9	9.8	0	6.8	13.9								
CD PLAY	1.5	6.6	0	0	0	1.4	1.4	6.6	9.5	0	6.5	13.4								
Ref.No.	IC700																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	1.6	0	1.6	3.4	-	-	-	5.8	0	5.8	2.9	2.9	2.5	2.5	2.5	2.5	2.5	2.5	5.8	0
CD PLAY	1.6	0	1.6	0	-	-	-	5.8	0	5.8	3.3	2.4	2.5	2.5	2.5	2.5	2.5	2.5	5.8	0
Ref.No.	IC700																			
Mode	21	22	23	24	25	26	27	28												
CD STOP	5.8	0	-	-	5.8	1.6	1.6	1.6												
CD PLAY	5.8	0	-	-	5.8	1.6	1.6	1.6												
Ref.No.	IC701																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	0	0	0	3.5	1.6	3.4	1.6	-	-	-	1.6	-	1.6	-	3.5	1.5	0	1.6	1.6	1.6
CD PLAY	0	0	0	3.5	1.6	0	1.6	-	-	-	1.6	-	1.6	-	3.5	1.5	0	1.6	1.6	1.6
Ref.No.	IC701																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD STOP	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.4	2.8	1.7	1.7	1.6	1.7	1.7	1.7	0.7	3.4	0	0	1.7
CD PLAY	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	2.3	2	2	1.6	2	2	2	1.6	3.4	0	1.4	2.1
Ref.No.	IC701																			
Mode	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD STOP	0	0	0	1.7	1.7	0.8	1	1	3.4	1.5	0	-	3.1	1.5	0	3.5	1.5	3.5	0	3.5
CD PLAY	1.7	1.4	0	1.6	1.6	0.8	1.8	1.8	3.4	1.5	0	-	3.1	1.5	0	3.5	1.5	3.5	0	3.5
Ref.No.	IC701																			
Mode	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD STOP	-	-	3.3	3.3	3.3	0	0	3.3	0	1.5	1.5	3.5	-	-	0	0	0	0	-	-
CD PLAY	-	-	3.3	3	3.3	1.6	0	3.3	0	1.4	1.4	3.5	-	-	0	0	0	0	-	-

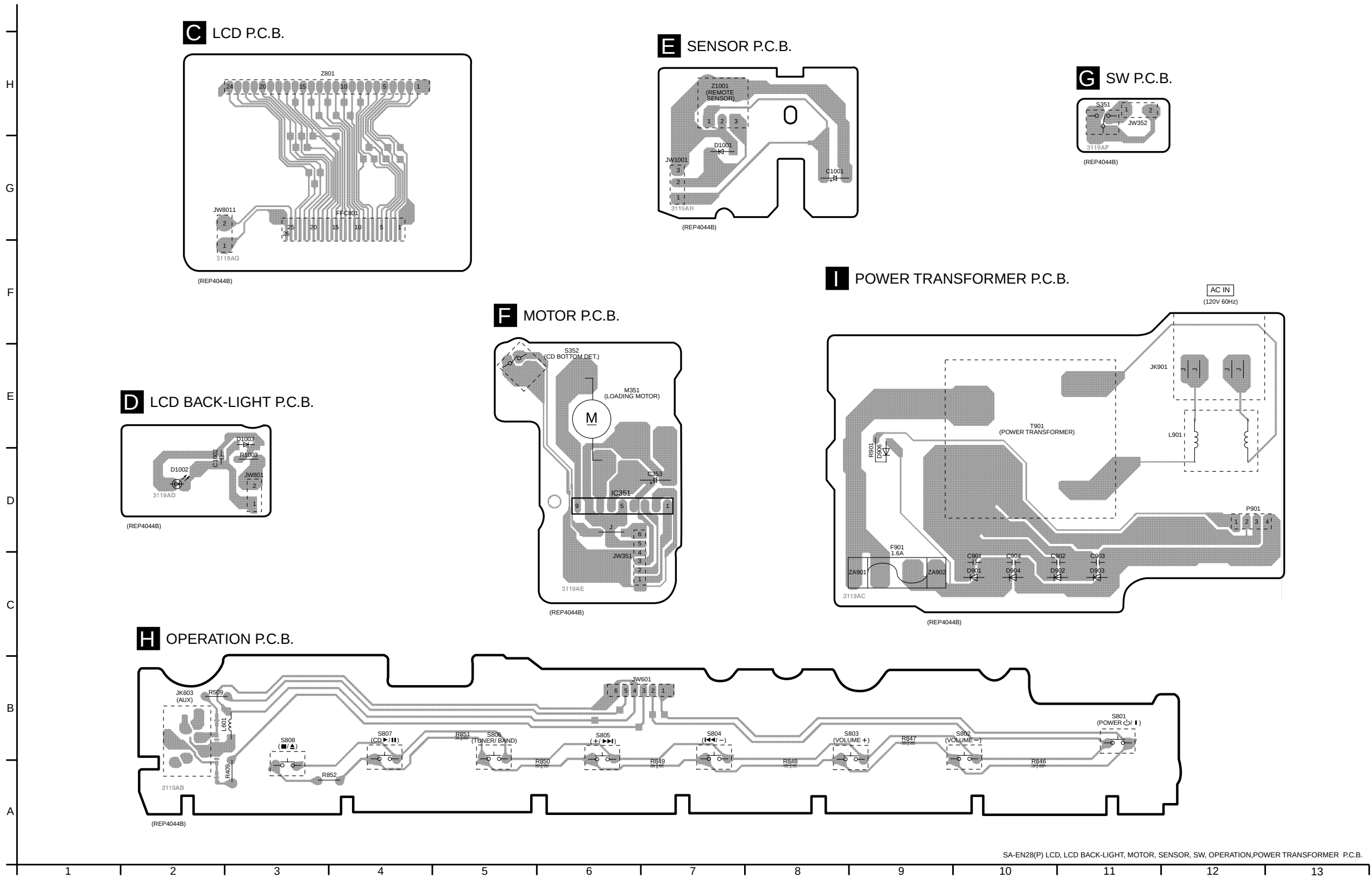
Ref.No.	IC801																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	1.4	1.5	1.4	1.5	1.1	1.9	3.1	3.1	0	3.3	3.3	0	2.9	0	3.2	0	1.4	1.5	3.3	0.2
CD PLAY	1.4	1.5	1.4	1.5	1.1	1.9	3.1	3.1	0	3.3	3.3	0	2.9	0	3.2	0	1.4	1.5	3.3	0.2
Ref.No.	IC801																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD STOP	1.4	0	3.2	3.3	3.3	3.2	0	2.4	3.3	0	0	0	0	3.3	3.3	3.3	3.3	0	3.2	3.2
CD PLAY	1.4	0	3.2	3.3	3.3	3.2	0	2.4	3.3	0	0	0	0	3.3	3.3	3.3	3.3	0	3.2	3.2
Ref.No.	IC801																			
Mode	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD STOP	0	3.3	3.3	3.3	0	0	0	2.9	1.2	0	3.3	0	0	0	2.9	3	0	0	0	0
CD PLAY	1.5	3.3	3.3	3.3	3.2	0	0	2.9	1.2	0.1	3.3	0	0	0	2.9	3	0	0	0	0
Ref.No.	IC801																			
Mode	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD STOP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref.No.	IC801																			
Mode	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD STOP	1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CD PLAY	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Ref.No.	QR609				QR614				QR618				QR619				QR620			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	0	0.2	2.6		0	0	7.6		0	0.7	0		0	5.4	0		5.6	3.3	5.4	
CD PLAY	0	0.2	2.6		0	0	7.6		0	0.7	0		0	5.4	0		5.6	3.3	5.4	
Ref.No.	QR621				QR803				QR804				Q1				Q301			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	5.6	3.3	5.4		0	3.2	0		3.3	3.2	0.3		0	0	0.1		3.4	3.3	2.6	
CD PLAY	5.6	3.3	5.4		0	3.2	0		3.1	0	3.1		0	0	0.1		3.4	3.3	2.6	
Ref.No.	Q302				Q303				Q401				Q501				Q603			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	5	9.1	5.7		5	9.1	5.7		0	0	0.7		0	0	0.6		7	3.4	6.4	
CD PLAY	5	9.1	5.7		5	9.1	5.7		0	0	0		0	0	0		7	3.4	6.4	
Ref.No.	Q604				Q605				Q606				Q607				Q608			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	2.7	6.4	3.2		13.9	9.3	13.4		13.7	12.9	13.6		8.5	12.9	9.1		14.1	14.1	13.4	
CD PLAY	2.7	6.4	3.2		13.9	9.3	13.4		13.7	12.9	13.6		8.5	12.9	9.1		14.1	14.1	13.4	
Ref.No.	Q611				Q612				Q613				Q615				Q617			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	7.7	5.6	7.1		2.7	7.1	3.3		4.1	4	3.4		4.1	14.1	4.7		2.7	7.7	3.4	
CD PLAY	7.7	5.6	7.1		2.7	7.1	3.3		4.1	4	3.4		4.1	14.1	4.7		2.7	7.7	3.4	
Ref.No.	Q700				Q801				Q802											
Mode	E	C	B		E	C	B		E	C	B									
CD STOP	3.4	1.2	2.8		0	0	0.6		0	0.3	0									
CD PLAY	3.4	2.1	2.3		0	0	0.6		0	0.2	0									

4 Printed Circuit Board Diagram



(REP4044A)





5 Cabinet Parts Location

5.1. Speaker(SB-EN28)

