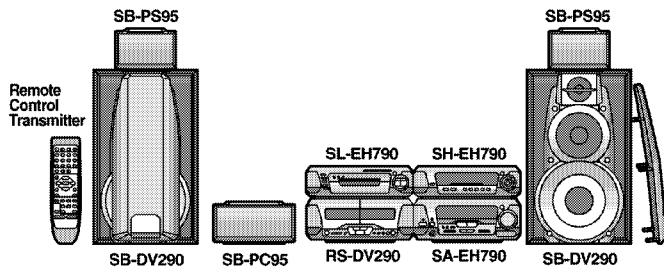


Service Manual

Sound Processor



SH-EH790E

Colour

(S).....Silver Type

System: SC-EH790

Because of unique interconnecting cables,when a component requires servise,send or bring in the entire system.

Note: Refer to the service manual for Model No. SA-EH790E/EB/EG/EP (ORDER NO.AD0303004C2) for information on "ACCESSORIES"and "PACKAGING".

Specification

■ EQ/SFP section

MANUAL GEQ

5-Band EQ

Center frequency 70/300/1 k/3.15 k/10 kHz
Level control ±2.0, 4.0, 6.0 dB

EQ/Space mode

4 modes HEAVY, CLEAR, SOFT, HALL

SUPER 3D AI EQ

3 modes AI EQ, SUPER 3D AI 1, SUPER 3D AI 2

■ Pre-amplifier section

Input sensitivity/impedance

VCR (EXT) 250 mV/15 kΩ
AUX (DVD) 250 mV/15 kΩ

Output level

VCR REC OUT 150 mV/1.5 kΩ

■ DOLBY PRO LOGIC section

PRO LOGIC mode SURROUND

CENTER mode NORMAL

DELAY TIME 20 ms (Fixed)

■ AV SURROUND section

AV surround mode SUPER SURROUND (MUSIC, MOVIE)

■ DSP CONTROL section

DSP control mode SUPER SOUND EQ

CENTER FOCUS

VIRTUAL REAR SURROUND

MULTI REAR SURROUND

SEAT POSITION

■ Spectrum analyzer section

Display mode NORMAL, PEAKHOLD, AURORA

■ General

Dimensions (W×H×D) 293×89×270 mm

Mass 1.5 kg

Power Supply DC±10V/ -25V, AC4.6V

Power Consumption 7W

Notes 1.Design and specifications are subject to change without notice.

2.Dimensions and weight are approximate.

3.Total harmonic distortion is measured by the digital spectrum analyzer.

■ System/SC-EH790

Sound processor: SH-EH790, CD changer: SL-EH790, Tuner/ Amplifier: SA-EH790, Cassette Deck: RS-DV290, Speakers: Front* (SB-DV290), Center* (SB-PC95),Surround* (SB-PS95) (*Made in MAES.)

Manufactured under license from Dolby Laboratories.

"Dolby","Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

Technics

© 2003 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

⚠ 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.

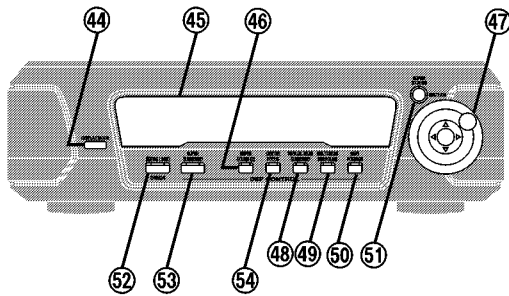
CONTENTS

	Page	Page	
1 Note	2	7 Printed Circuit Board Diagram	13
2 Location of Controls	2	8 Type Illustration of ICs, Transistors and Diodes	15
3 Operation Checks and Component Replacement Procedures	3	9 Wiring Connection Diagram	15
3.1. Checking for the FL P.C.B.	3	10 Block Diagram	17
3.2. Checking for the main P.C.B.	3	11 Terminal Function of ICs	21
4 To Supply Power Source	5	11.1. IC601 (C2BBGF000434):System Control/FL Drive	21
5 Schematic Diagram Notes	5	12 Replacement Parts List	22
6 Schematic Diagram	7	13 Cabinet Parts Location	26

1 Note

Refer to the service manual for Model No. SA-EH790 (Order No. AD0303004C2) for information on Accessories and Packaging.

2 Location of Controls

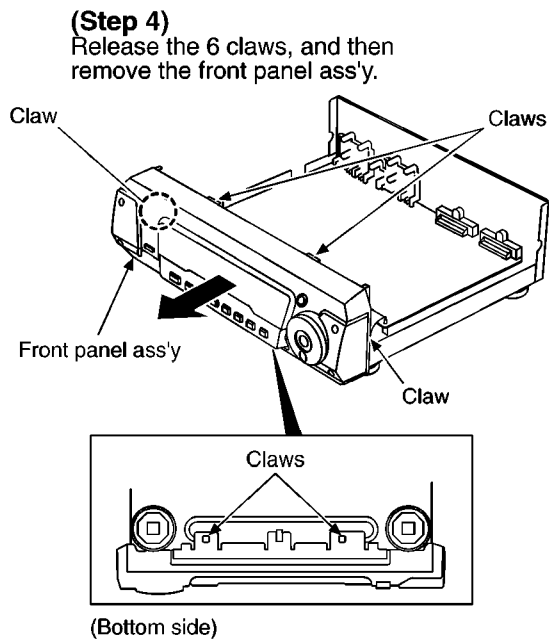
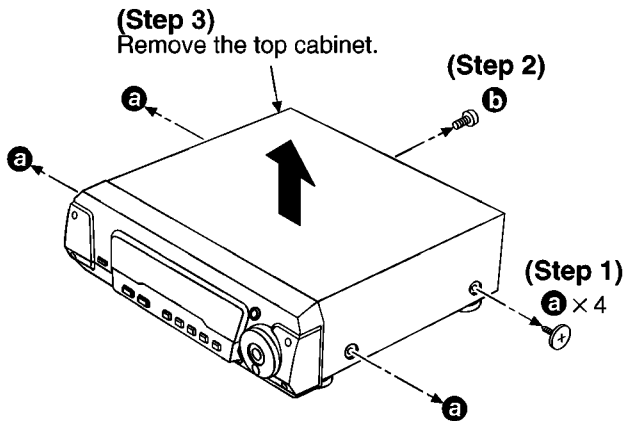


- ④④ Display mode button (DISPLAY MODE)
- ④⑤ Display
- ④⑥ Super sound EQ button (SUPER SOUND EQ)
- ④⑦ Jog control and joystick (◀, ▶, ▲, ▼, MULTI JOG)
- ④⑧ Virtual rear surround button and indicator (VIRTUAL REAR SURROUND)
- ④⑨ Multi rear surround button and indicator (MULTI REAR SURROUND)
- ⑤① Seat position button and indicator (SEAT POSITION)
- ⑤① Super 3D AI EQ button (SUPER 3D AI EQ)
- ⑤② DOLBY PRO LOGIC button and indicator (DOLBY PRO LOGIC, OFF/ON)
- ⑤③ Super surround button and indicator (SUPER SURROUND)
- ⑤④ Center focus button and indicator (CENTER FOCUS)

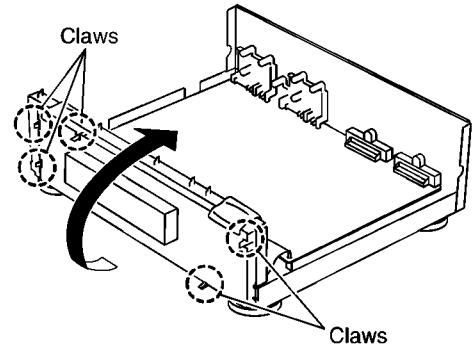
3 Operation Checks and Component Replacement Procedures

- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

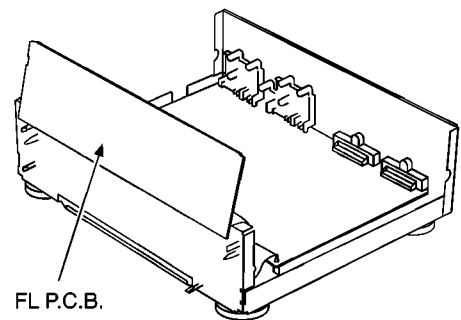
3.1. Checking for the FL P.C.B.



- (Step 5)**
Release the 5 claws, and then remove the FL P.C.B..

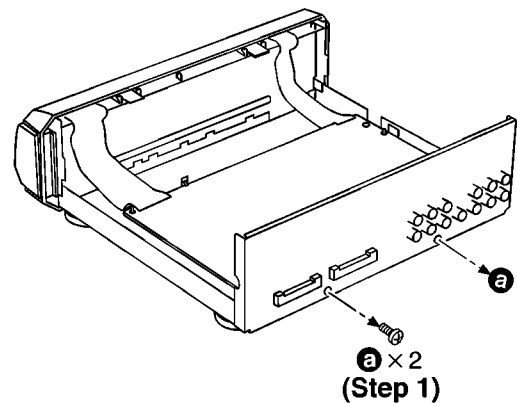


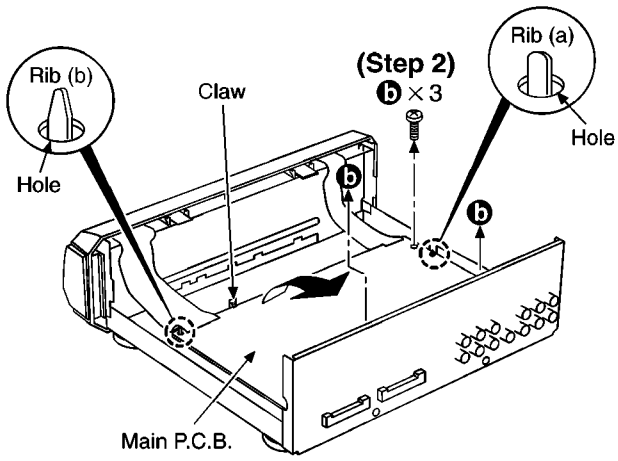
- Check the FL P.C.B. as shown below.



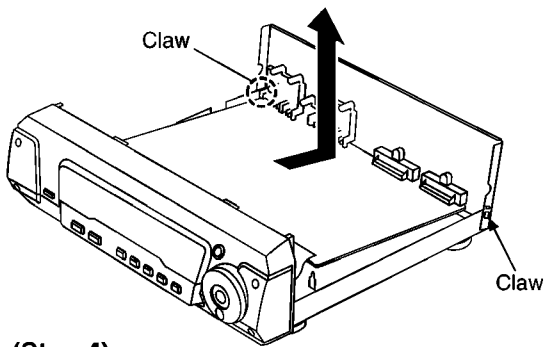
3.2. Checking for the main P.C.B.

- Follow the (Step 1) - (Step 3) of item 3.1.



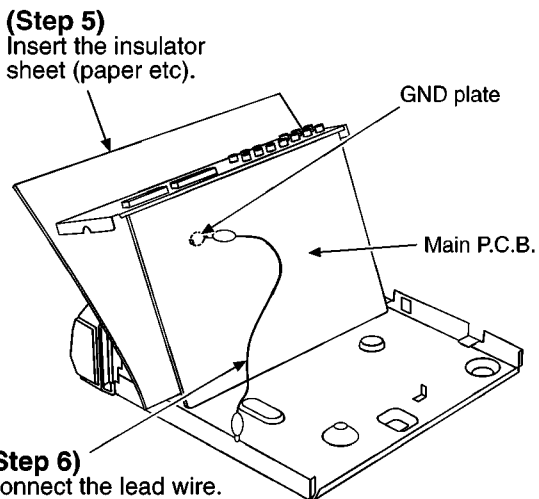


(Step 3)
Release the claw, and then lift up the main P.C.B..
(Lift up the main P.C.B. until the rib (a) and rib (b) are released from the hole of main P.C.B..)



(Step 4)
Release the 2 claws, and then remove the main P.C.B. in the direction of arrow.

• Check the main P.C.B. as shown below.



4 To Supply Power Source

This unit is designed to operate on power supplied from system connected.

When a component requires service, use the system connections to supply power source.

For system connections, refer to Fig. 4-1.

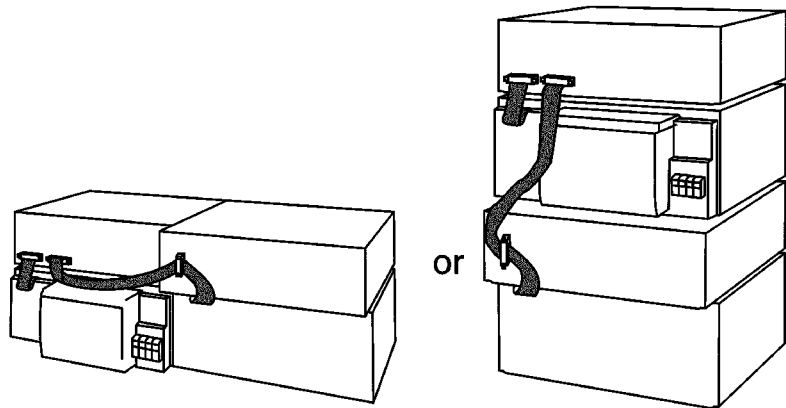


Fig. 4-1.

5 Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S601:	Display mode switch (DISPLAY MODE)
S602:	DOLBY PRO LOGIC switch (PRO LOGIC, OFF/ON)
S603:	Super surround switch (SUPER SURROUND)
S604:	Super sound EQ switch (SUPER SOUND EQ)
S605:	Center focus switch (CENTER FOCUS)
S606:	Virtual rear surround switch (VIRTUAL REAR SURROUND)
S607:	Multi rear surround switch (MULTI REAR SURROUND)
S608:	Joy stick switch (►)
S609:	Joy stick switch (▲)
S610:	Joy stick switch (◀)
S611:	Joy stick switch (▼)
S612:	Super 3D AI EQ switch (SUPER 3D AI EQ)
S613:	Seat position switch (SEAT POSITION)
S614:	Joy control switch (MULTI JOG)

- 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 : Power on

- Important safety notice:

Components identified by \triangle ; 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.

- The supply part number is described alone in the replacement parts list.

• Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

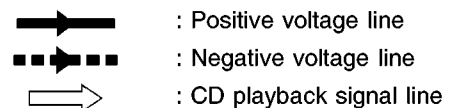
Cover the parts boxes made of plastics with aluminum foil.

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.

- Voltage and signal line



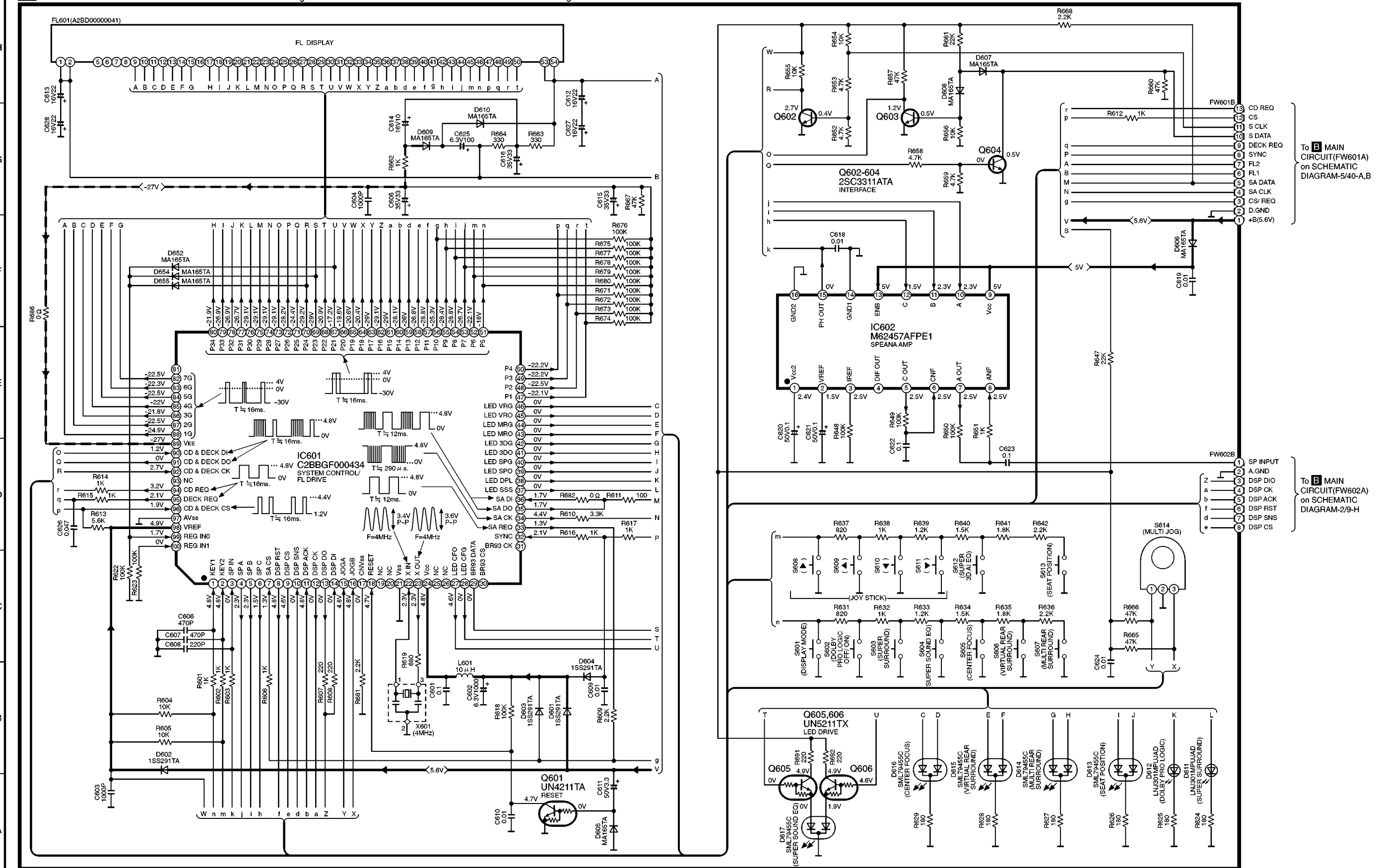
6 Schematic Diagram

SCHEMATIC DIAGRAM-1

A FL CIRCUIT

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.

→ : POSITIVE VOLTAGE LINE
- - - - - : NEGATIVE VOLTAGE LINE



To **B** MAIN CIRCUIT(FW601A) on SCHEMATIC DIAGRAM-5/40-A,B

To **B** MAIN CIRCUIT(FW602A) on SCHEMATIC DIAGRAM-2/9-H

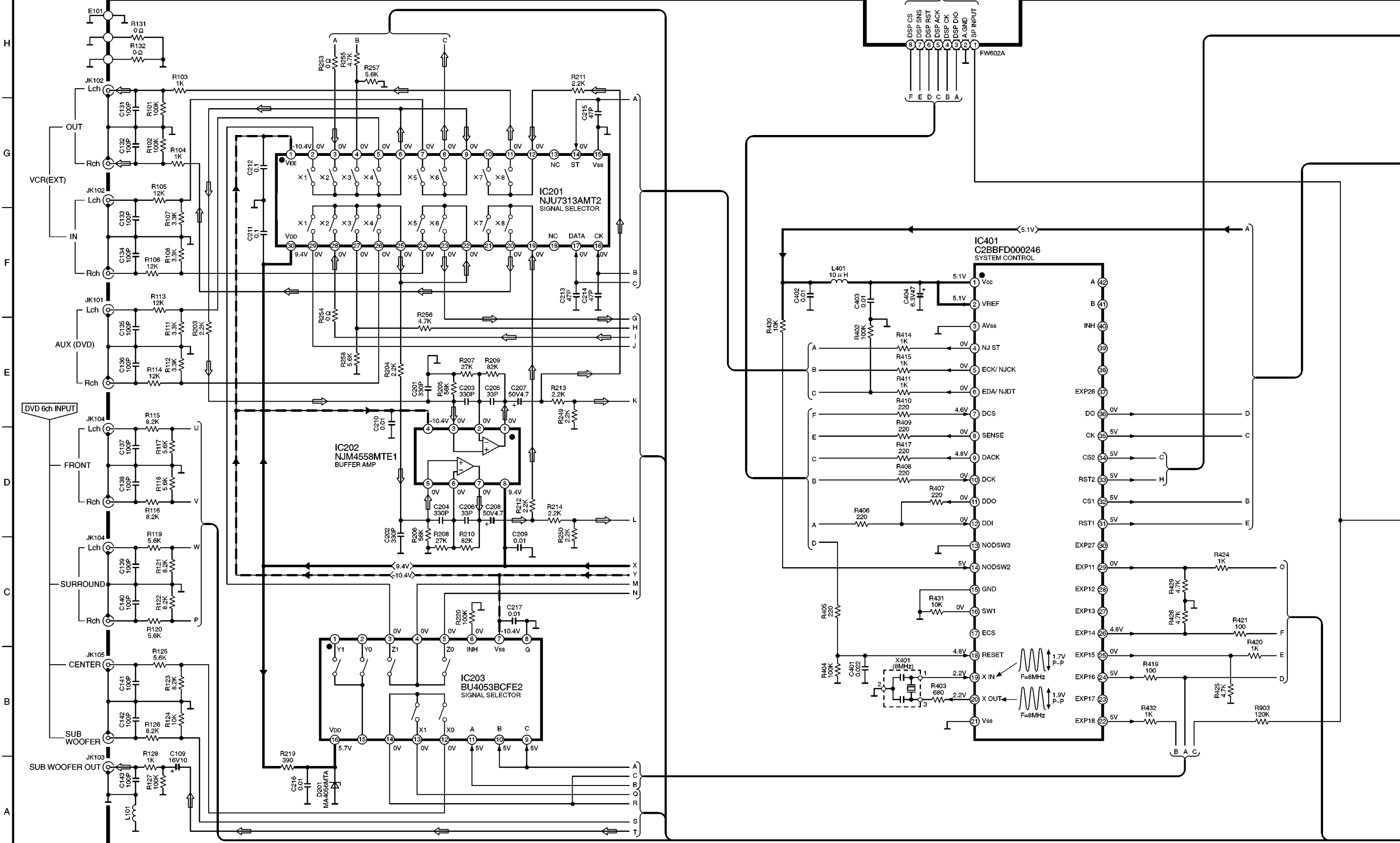
SH-EH790(E) FL CIRCUIT DIAGRAM

SCHEMATIC DIAGRAM-2

B MAIN CIRCUIT

→ : POSITIVE VOLTAGE LINE - - - : NEGATIVE VOLTAGE LINE ⇨ : CD PLAYBACK SIGNAL LINE

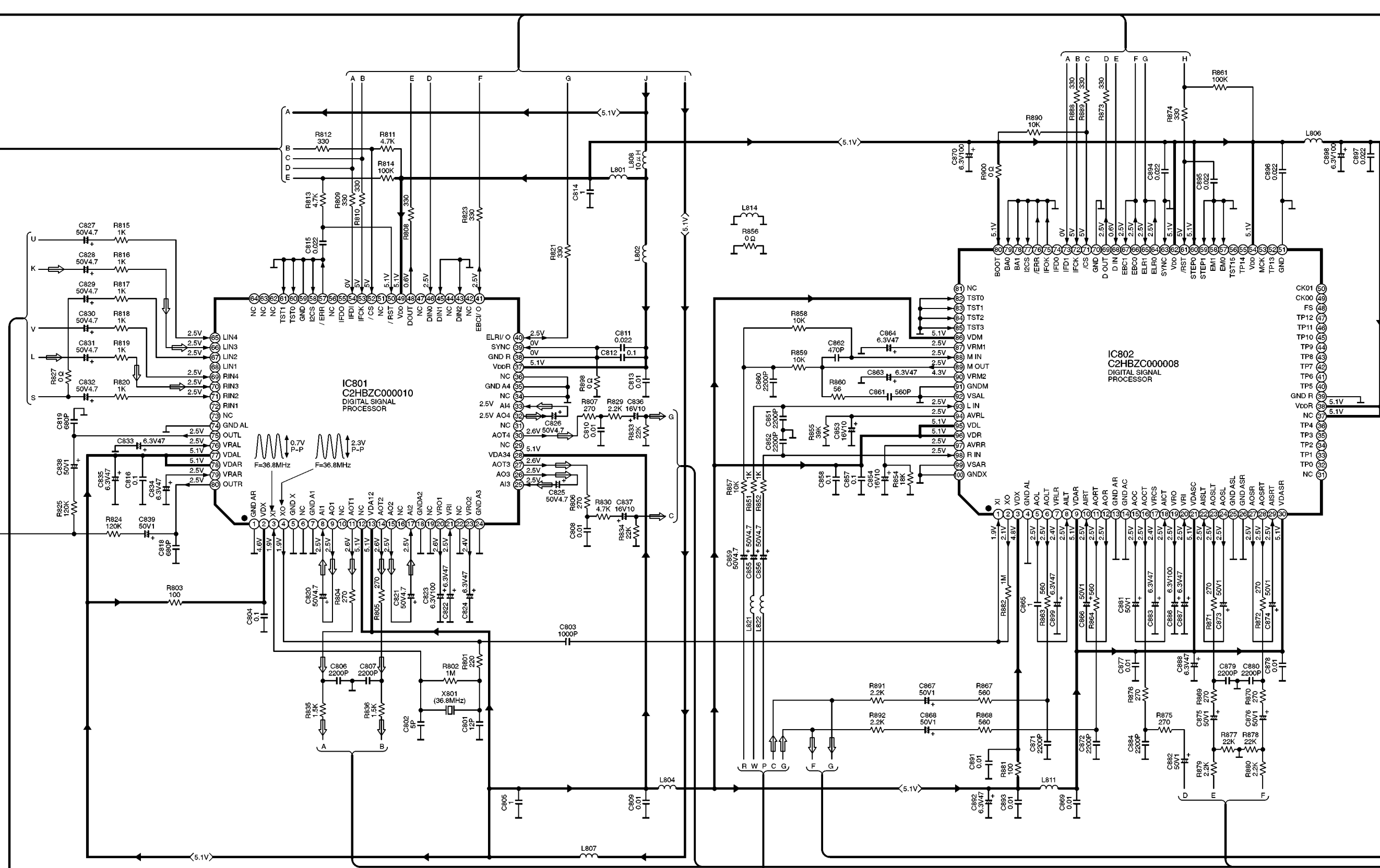
To A FL CIRCUIT(FW602B) on SCHEMATIC DIAGRAM-1/11,12-D



SCHEMATIC DIAGRAM-3

B MAIN CIRCUIT

→ : POSITIVE VOLTAGE LINE ⇨ : CD PLAYBACK SIGNAL LINE



SH-EH790(E) MAIN CIRCUIT DIAGRAM

13

14

15

16

17

18

19

20

21

22

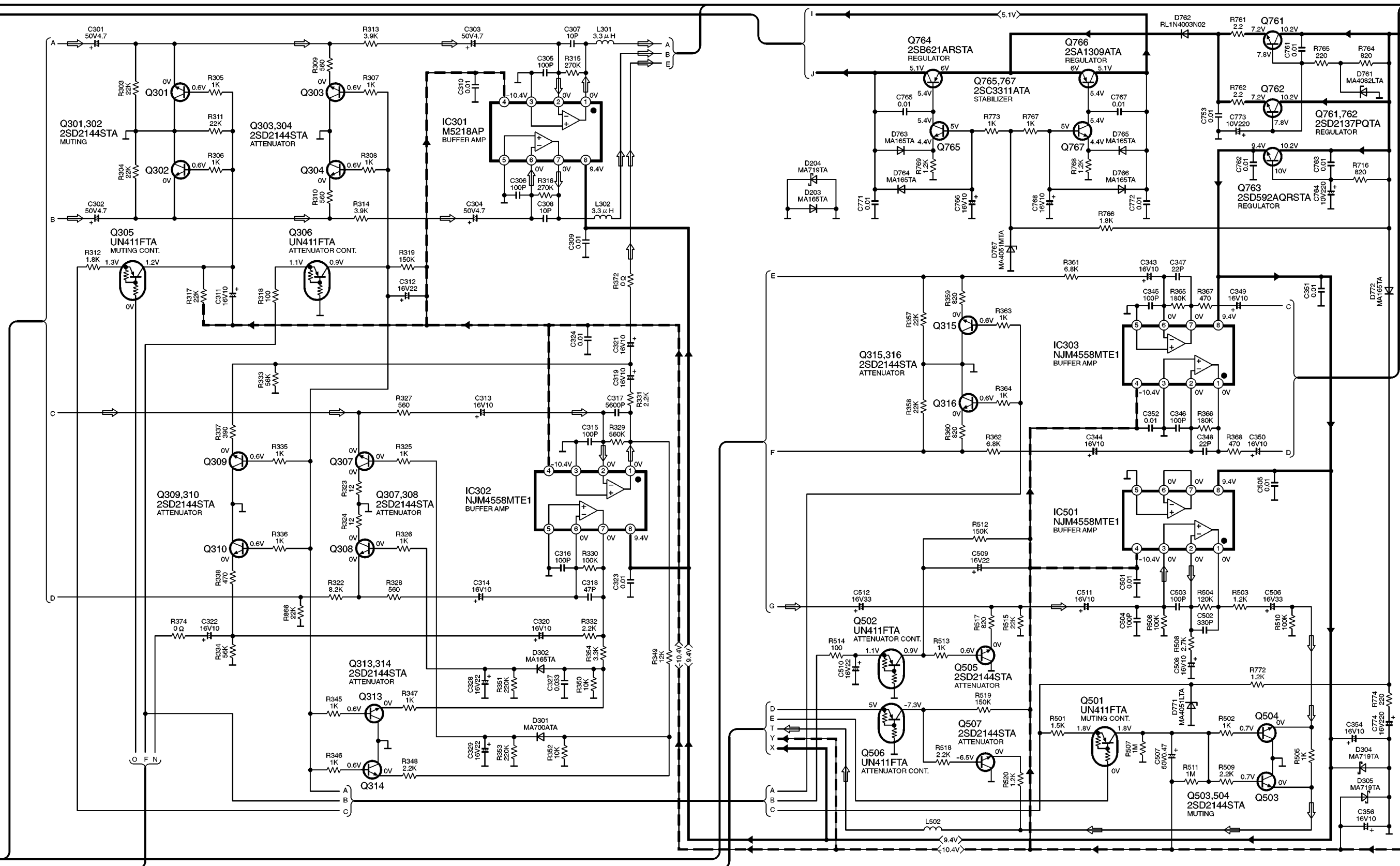
23

24

SCHEMATIC DIAGRAM-4

B MAIN CIRCUIT

→ : POSITIVE VOLTAGE LINE - - - - - : NEGATIVE VOLTAGE LINE ⇨ : CD PLAYBACK SIGNAL LINE

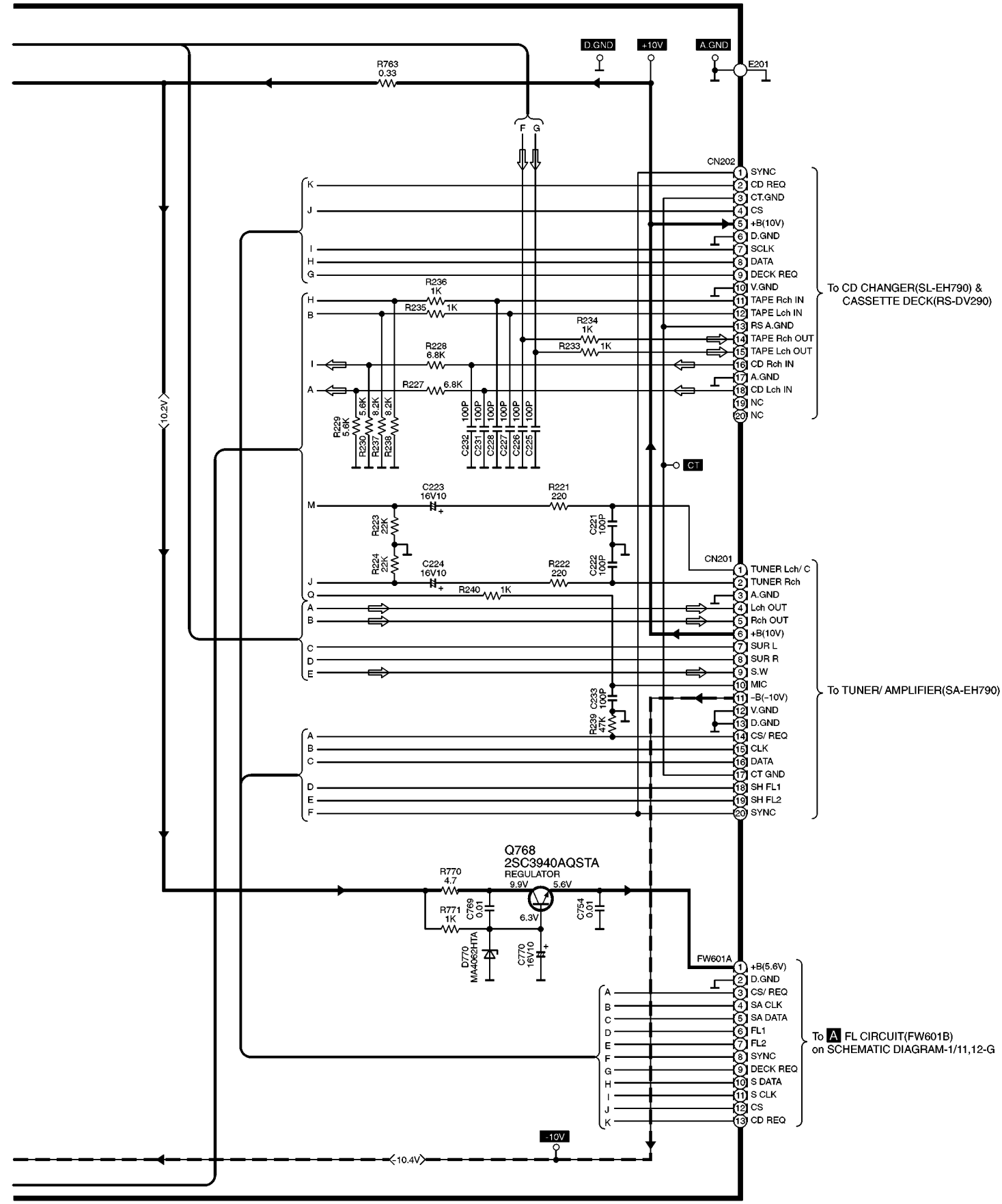


SH-EH790(E) MAIN CIRCUIT DIAGRAM

SCHEMATIC DIAGRAM-5

B MAIN CIRCUIT

→ : POSITIVE VOLTAGE LINE ⇨ : CD PLAYBACK SIGNAL LINE
- - - : NEGATIVE VOLTAGE LINE



To CD CHANGER(SL-EH790) & CASSETTE DECK(RS-DV290)

- 1 SYNC
- 2 CD REQ
- 3 CT.GND
- 4 CS
- 5 +B(10V)
- 6 D.GND
- 7 SCLK
- 8 DATA
- 9 DECK REQ
- 10 V.GND
- 11 TAPE Rch IN
- 12 TAPE Lch IN
- 13 RS A.GND
- 14 TAPE Rch OUT
- 15 TAPE Lch OUT
- 16 CD Rch IN
- 17 A.GND
- 18 CD Lch IN
- 19 NC
- 20 NC

To TUNER/AMPLIFIER(SA-EH790)

- 1 TUNER Lch/ C
- 2 TUNER Rch
- 3 A.GND
- 4 Lch OUT
- 5 Rch OUT
- 6 +B(10V)
- 7 SUR L
- 8 SUR R
- 9 S.W
- 10 MIC
- 11 -B(-10V)
- 12 V.GND
- 13 D.GND
- 14 CS/ REQ
- 15 CLK
- 16 DATA
- 17 CT GND
- 18 SH FL1
- 19 SH FL2
- 20 SYNC

To FL CIRCUIT(FW601B) on SCHEMATIC DIAGRAM-1/11,12-G

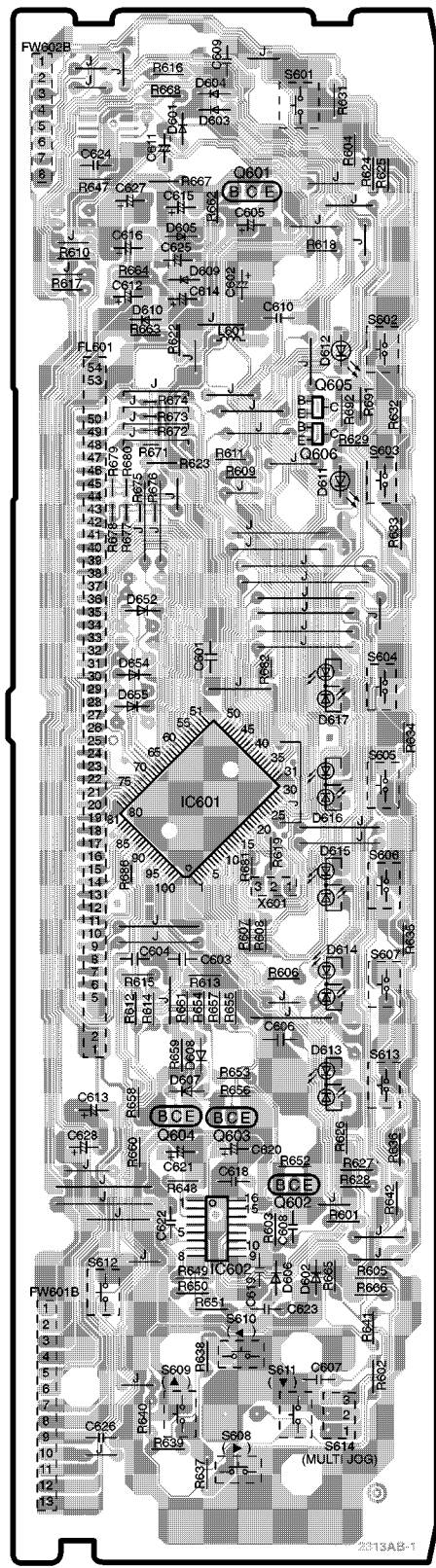
- 1 +B(5.6V)
- 2 D.GND
- 3 CS/ REQ
- 4 SA CLK
- 5 SA DATA
- 6 FL1
- 7 FL2
- 8 SYNC
- 9 DECK REQ
- 10 S DATA
- 11 S CLK
- 12 CS
- 13 CD REQ

SH-EH790(E) MAIN CIRCUIT DIAGRAM

7 Printed Circuit Board Diagram

Note: This printed circuit board diagram may be modified at any time with the development of new technology.

A FL P.C.B.



DISPLAY MODE

DOLBY PRO LOGIC OFF/ON

SUPER SURROUND

SUPER SOUND EQ

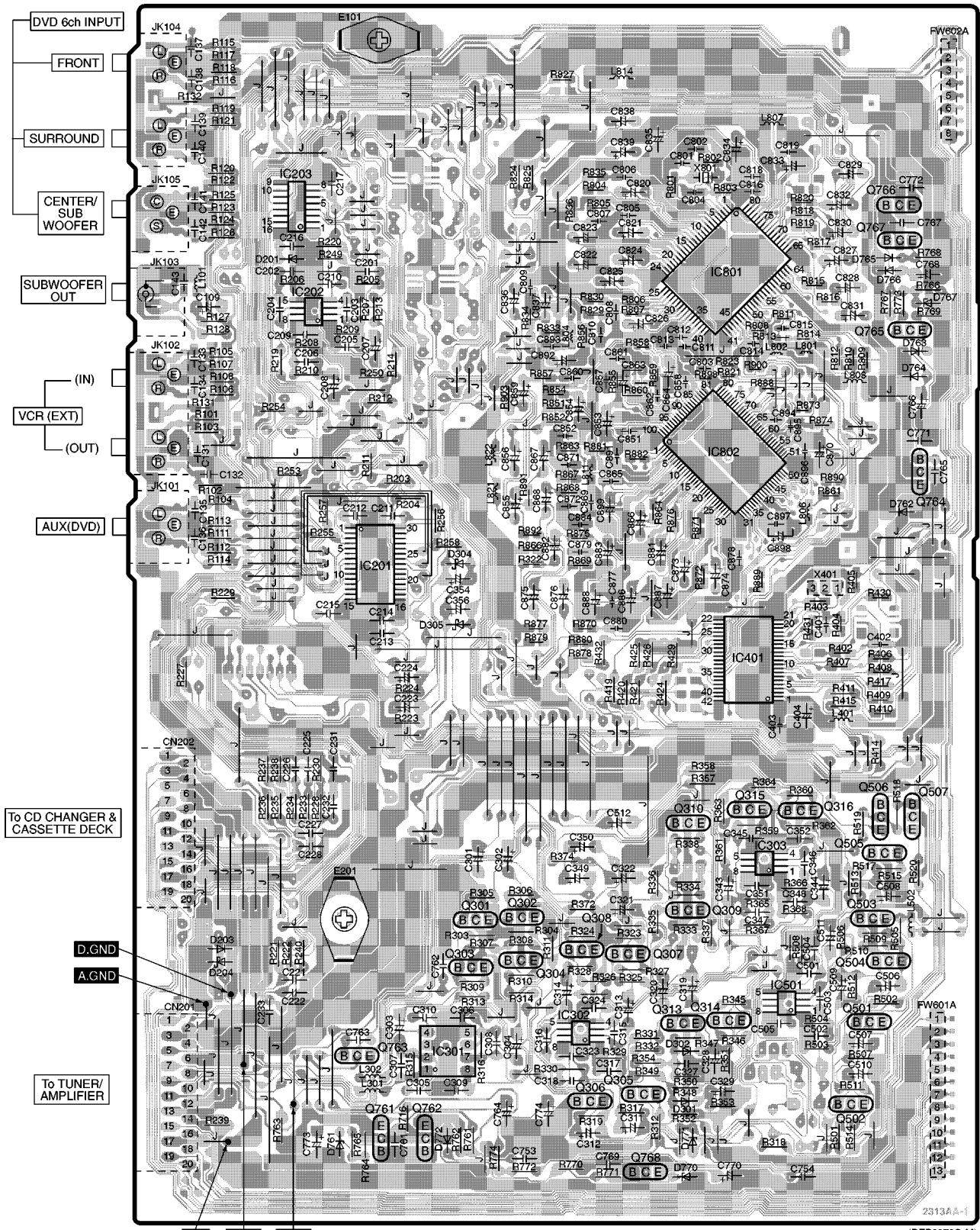
CENTER FOCUS

VIRTUAL REAR SURROUND

MULTI REAR SURROUND

SEAT POSITION

B MAIN P.C.B.



SUPER 3D AI EQ

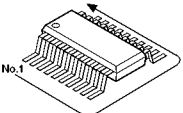
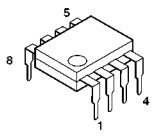
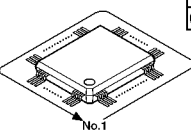
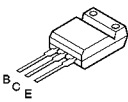
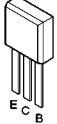
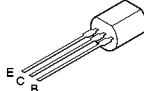
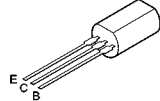
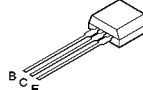
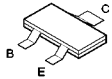
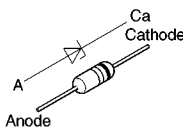
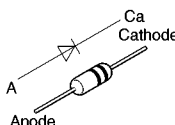
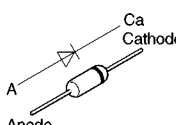
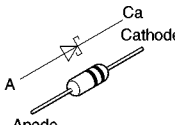
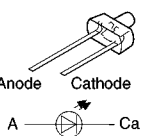
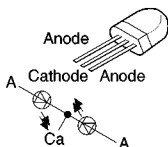
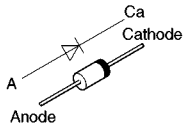
To CD CHANGER & CASSETTE DECK

D.GND
A.GND

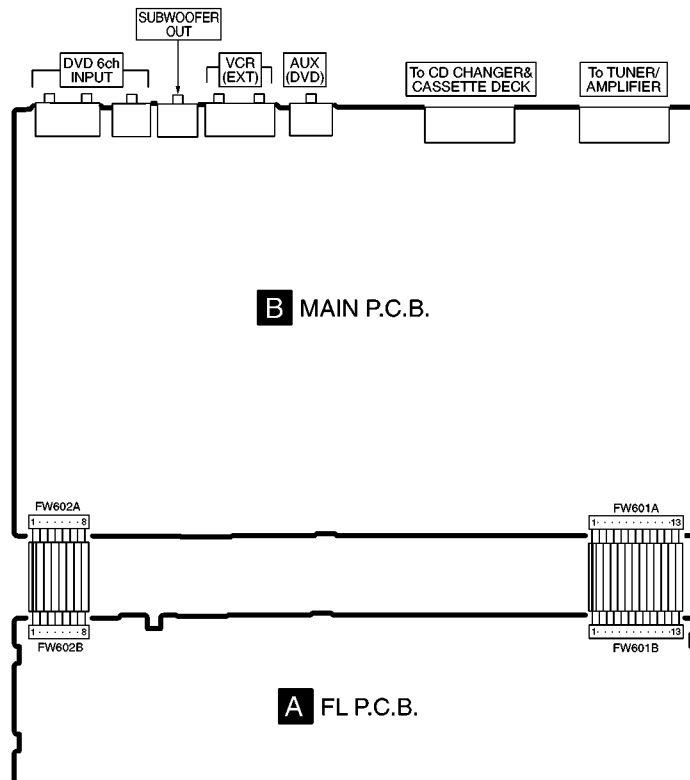
To TUNER/AMPLIFIER

CT +10V -10V

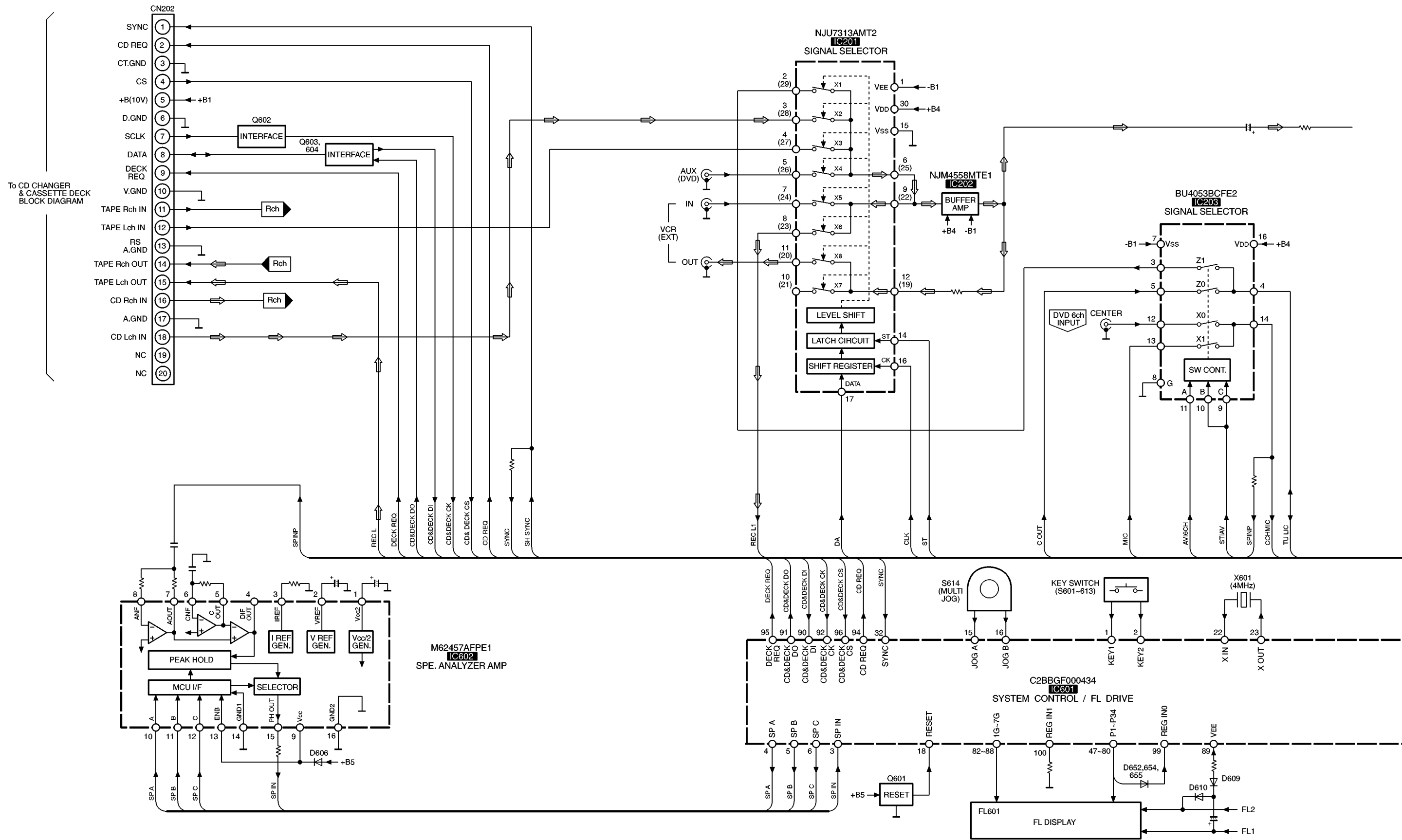
8 Type Illustration of ICs, Transistors and Diodes

 <table border="1" data-bbox="347 212 587 331"> <tr><td>BU4053BCFE2</td><td>16PIN</td></tr> <tr><td>M62457AFPE1</td><td>16PIN</td></tr> <tr><td>NJU7313AMT2</td><td>30PIN</td></tr> <tr><td>C2BBFD000246</td><td>42PIN</td></tr> <tr><td>NJM4558MTE1</td><td>8PIN</td></tr> </table>	BU4053BCFE2	16PIN	M62457AFPE1	16PIN	NJU7313AMT2	30PIN	C2BBFD000246	42PIN	NJM4558MTE1	8PIN	<p>M5218AP</p> 	<table border="1" data-bbox="1021 212 1268 291"> <tr><td>C2BBGF000434</td><td>100PIN</td></tr> <tr><td>C2HBZC000010</td><td>80PIN</td></tr> <tr><td>C2HBZC000008</td><td>100PIN</td></tr> </table> 	C2BBGF000434	100PIN	C2HBZC000010	80PIN	C2HBZC000008	100PIN	<p>2SD2137PQTA</p> 
BU4053BCFE2	16PIN																		
M62457AFPE1	16PIN																		
NJU7313AMT2	30PIN																		
C2BBFD000246	42PIN																		
NJM4558MTE1	8PIN																		
C2BBGF000434	100PIN																		
C2HBZC000010	80PIN																		
C2HBZC000008	100PIN																		
 <p>2SC3311ATA UN4211TA UN411FTA</p>	<p>2SB621ARSTA 2SD592AQRSTA 2SA1309ATA</p> 	<p>2SC3940AQSTA</p> 	<p>2SD2144STA</p> 	<p>UN5211TX</p> 															
 <p>MA4051LTA MA4062HTA MA4082LTA MA4051MTA MA4056MTA</p>	<p>1SS291TA MA700ATA</p> 	<p>MA165TA</p> 	<p>MA719TA</p> 	<p>LNJ301MPUJAD</p> 															
<p>SML79455C</p> 	<p>RL1N4003N02</p> 																		

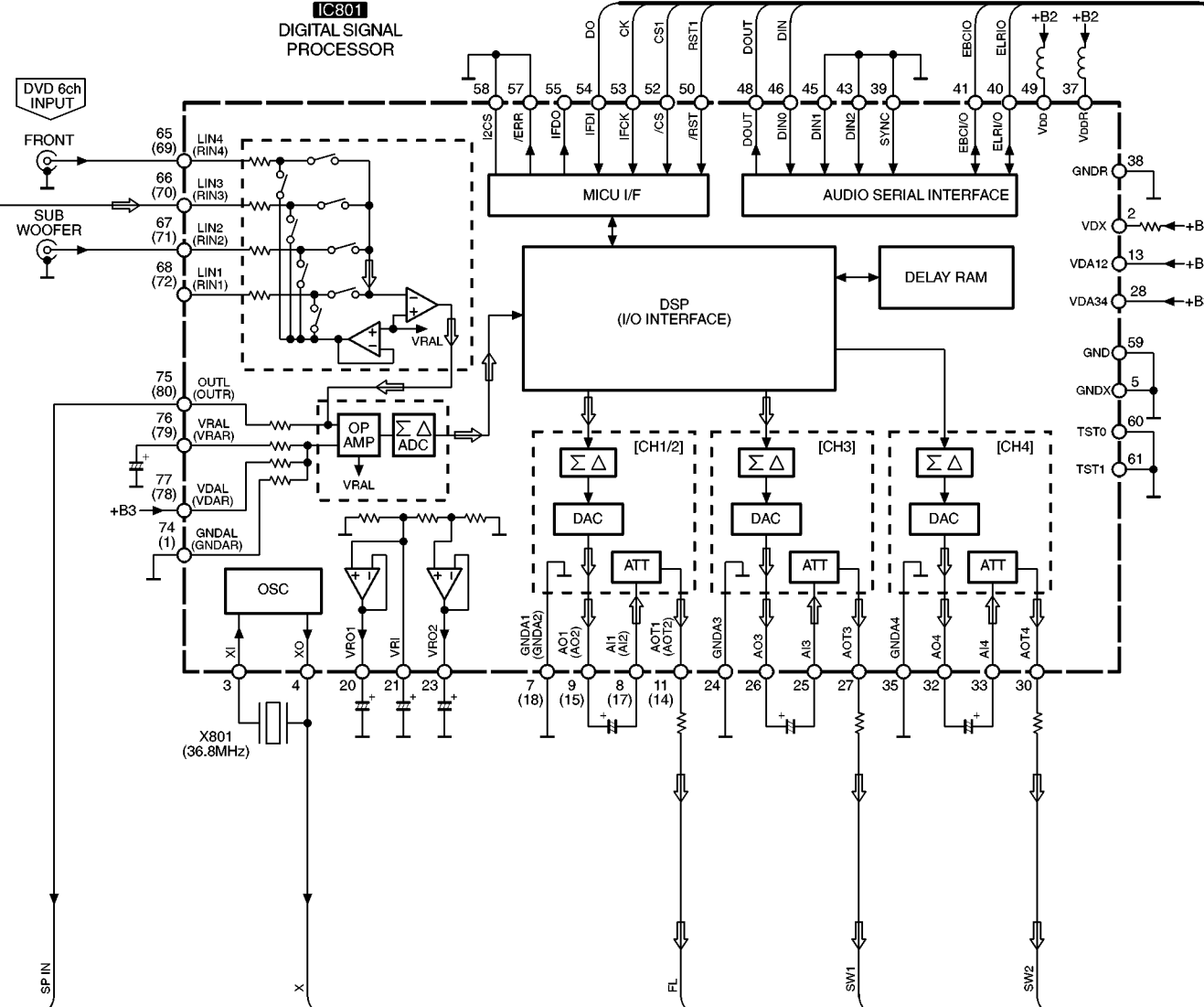
9 Wiring Connection Diagram



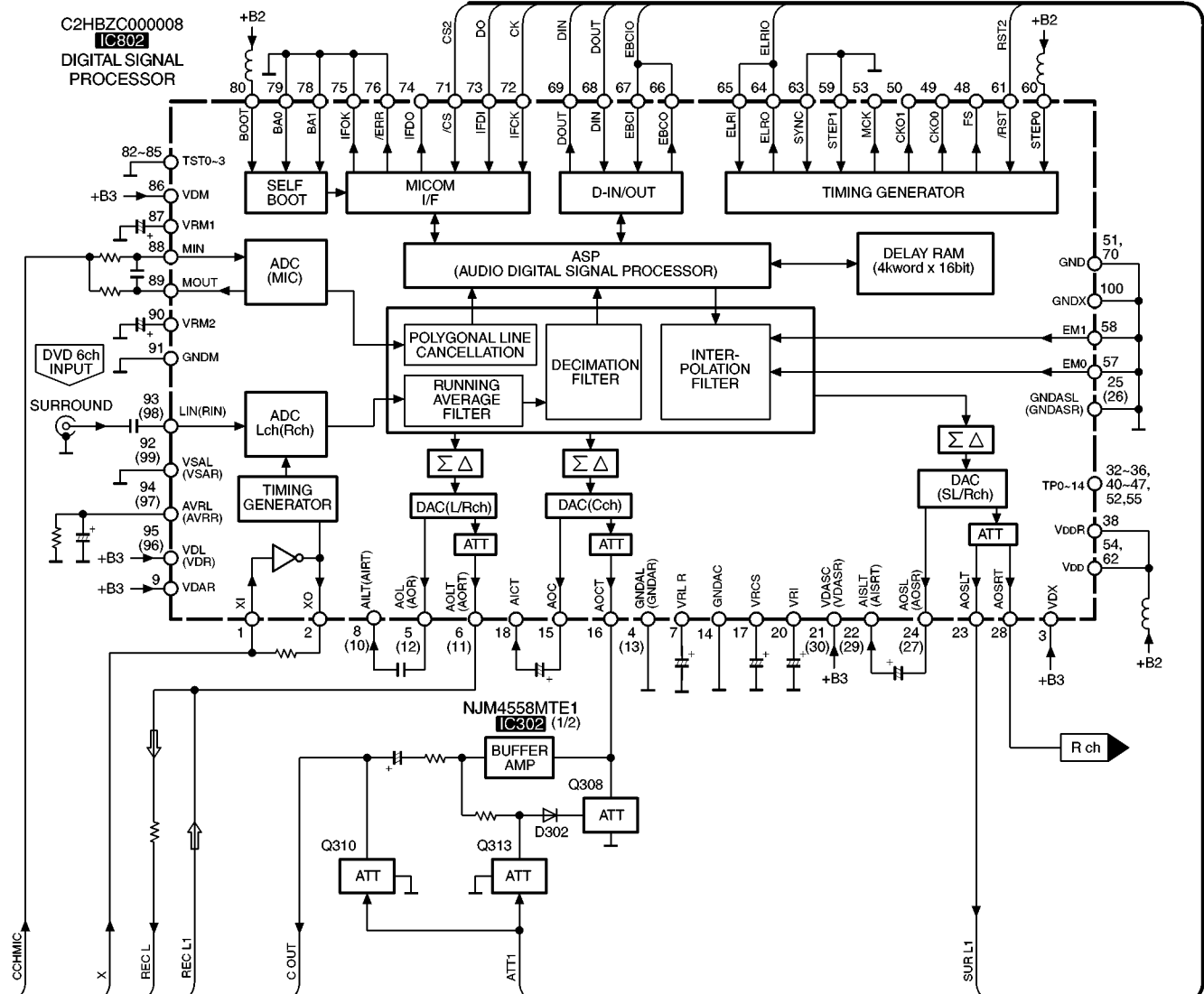
10 Block Diagram



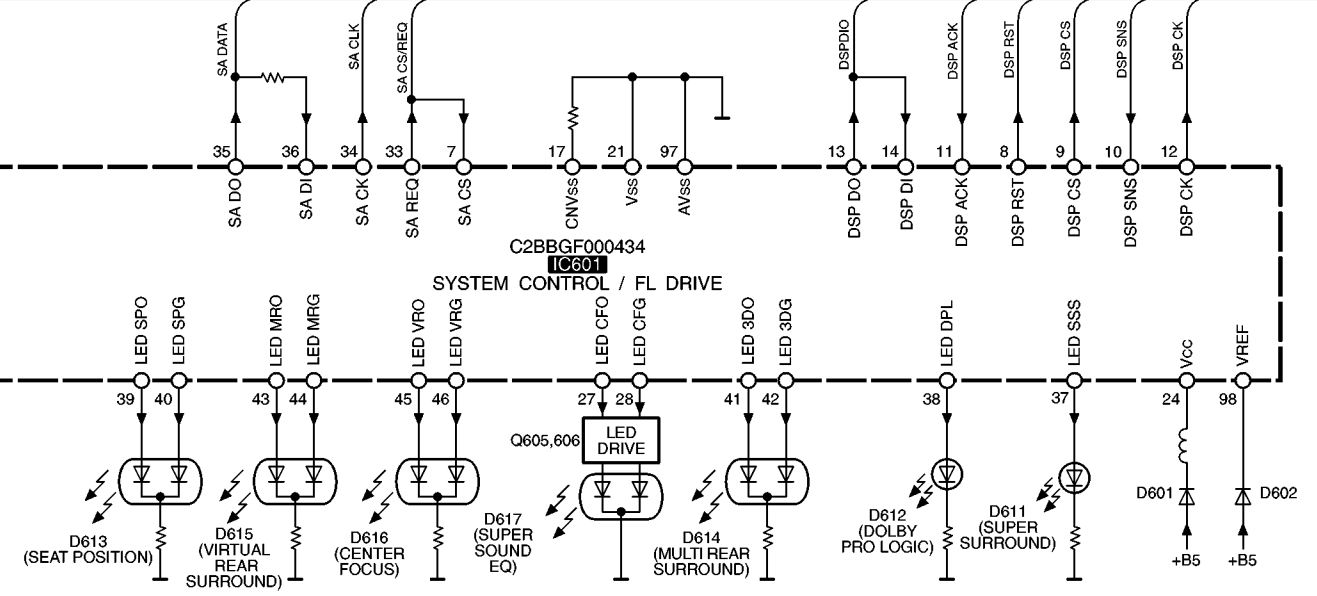
C2HBZC000010
IC801
DIGITAL SIGNAL PROCESSOR



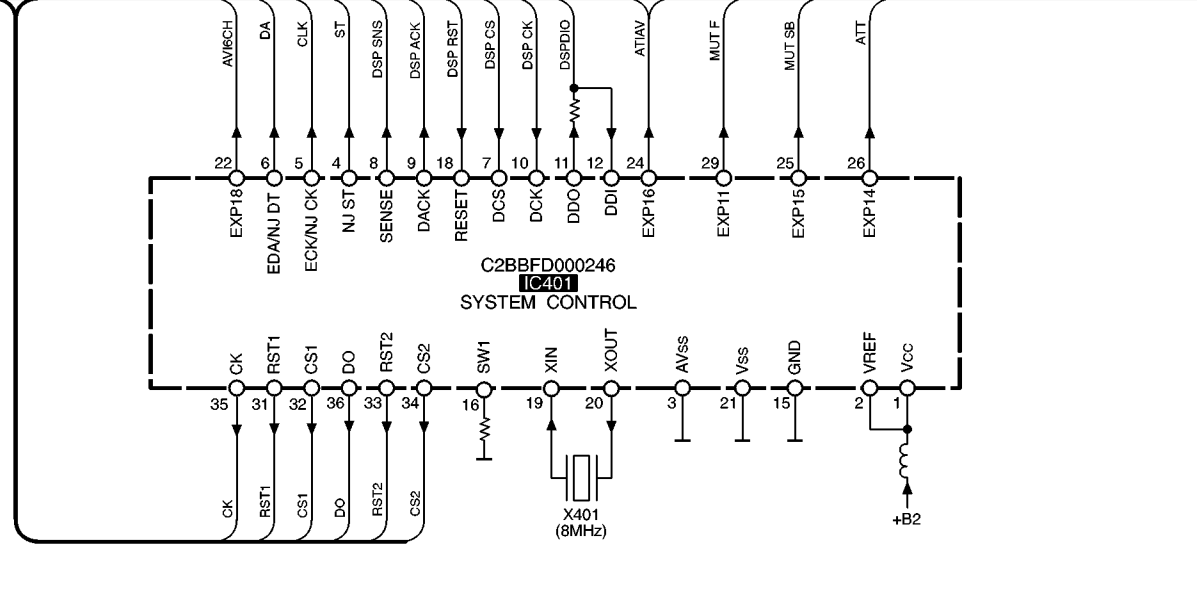
C2HBZC000008
IC802
DIGITAL SIGNAL PROCESSOR

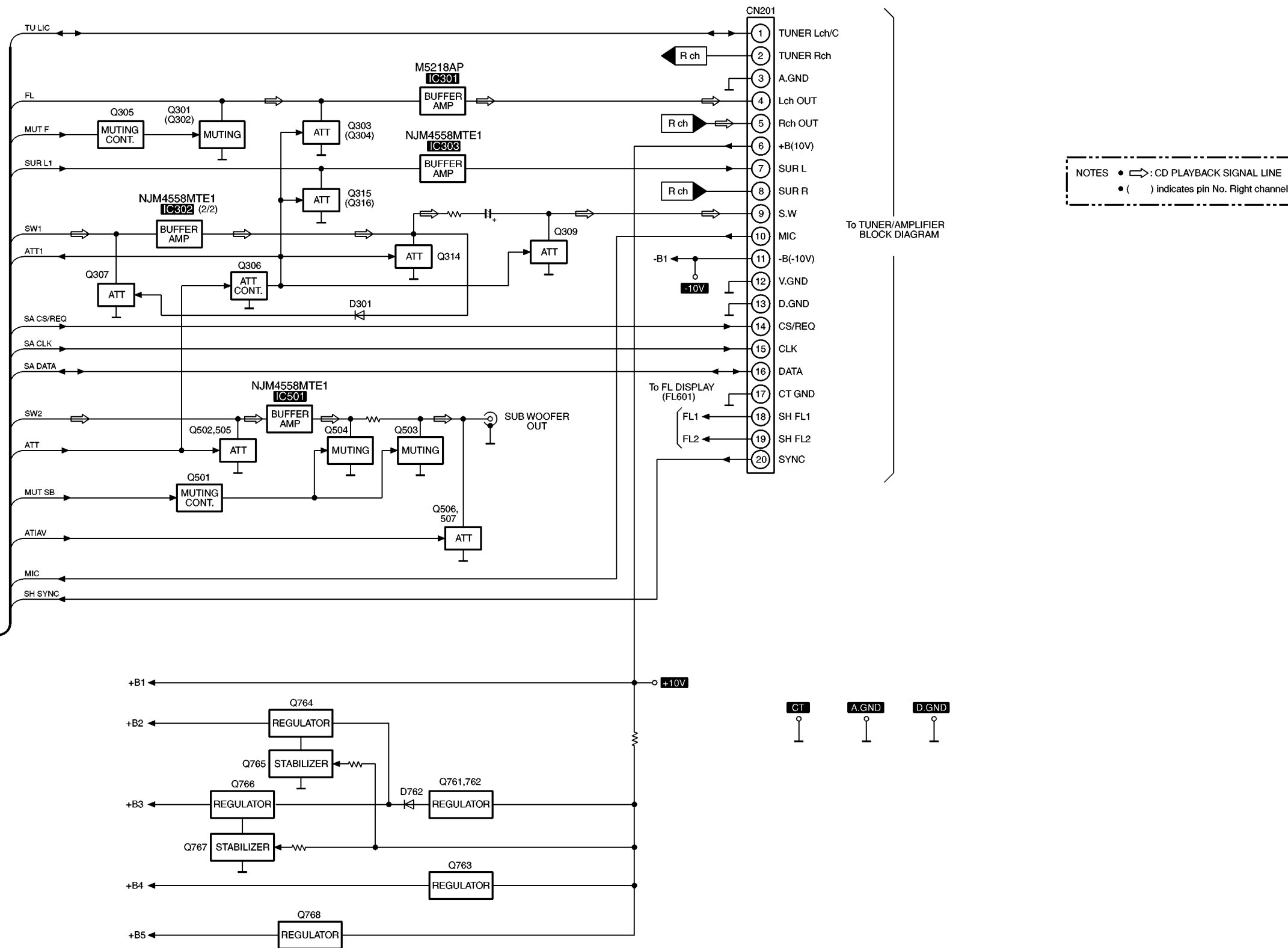


C2BBGF000434
IC601
SYSTEM CONTROL / FL DRIVE



C2BBFD000246
IC401
SYSTEM CONTROL





11 Terminal Function of ICs

11.1. IC601 (C2BBGF000434): System Control/FL Drive

Pin No.	Terminal Name	I/O	Function
1	KEY1	I	Operation key signal input
2	KEY2	I	Operation key signal input
3	SP IN	I	A/D signal input from IC602
4	SP A	O	Band select signal output for IC602
5	SP B	O	Band select signal output for IC602
6	SP C	O	Band select signal output for IC602
7	SA CS	I	Chip select signal input
8	DSP RST	O	Reset signal output for IC401
9	DSP CS	O	Chip select signal output for IC401
10	DSP SNS	I	Sense signal input from IC401
11	DSP ACK	I	Acknowledge signal input from IC401
12	DSP CK	O	Clock signal output for IC401
13	DSP DO	O	Data signal output for IC401
14	DSP DI	I	Data signal input from IC401
15	JOG A	I	JOG A signal input
16	JOG B	I	JOG B signal input
17	CNV _{SS}	-	GND terminal
18	RESET	I	System reset signal input
19	NC	-	Not used, open
20	NC	-	Not used, open
21	V _{SS}	-	GND terminal
22	X IN	I	Oscillator connected terminal (F=4 MHz)
23	X OUT	O	
24	V _{CC}	I	Power supply terminal
25	NC	-	Not used, open
26	NC	-	Not used, open
27	LED CFO	O	ORANGE LED (SUPER SOUND EQ) signal output
28	LED CFG	O	GREEN LED (SUPER SOUND EQ) signal output
29	BR93 DATA	-	Not used, connected to GND via resistor
30	BR93 CS	-	Not used, open
31	BR93 CK	-	Not used, open
32	SYNC	I	Power failure detect signal input
33	SA REQ	O	Request signal output for Tuner/Amplifier
34	SA CK	O	Serial communication signal to Tuner/Amplifier (Clock signal output)
35	SA DO	O	Serial communication signal to Tuner/Amplifier (Data signal output)
36	SA DI	I	Serial communication signal to Tuner/Amplifier (Data signal input)
37	LED SSS	O	LED (SUPER SURROUND) signal output
38	LED DPL	O	LED (DOLBY PRO LOGIC) signal output
39	LED SPO	O	ORANGE LED (SEAT POSITION) signal output
40	LED SPG	O	GREEN LED (SEAT POSITION) signal output
41	LED 3DO	O	ORANGE LED (MULTI REAR SURROUND) signal output
42	LED 3DG	O	GREEN LED (MULTI REAR SURROUND) signal output
43	LED MRO	O	ORANGE LED (VIRTUAL REAR SURROUND) signal output
44	LED MRG	O	GREEN LED (VIRTUAL REAR SURROUND) signal output
45	LED VRO	O	ORANGE LED (CENTER FOCUS) signal output
46	LED VRG	O	GREEN LED (CENTER FOCUS) signal output
47 80	P1 P34	O	FL segment signal output
81	NC	-	Not used, open

Pin No.	Terminal Name	I/O	Function
82 88	7G 1G	O	FL grid signal output
89	V _{EE}	I	Power supply terminal (Negative)
90	CD&DECK DI	I	Data signal input (CD and Deck mechanism)
91	CD&DECK DO	O	Data signal output (CD and Deck mechanism)
92	CD&DECK CK	I	Clock signal input (CD and Deck mechanism)
93	NC	-	Not used, open
94	CD REQ	O	Serial data request signal output for CD
95	DECK REQ	O	Serial data request signal output for Deck mechanism
96	CD&DECK CS	I	Chip select signal input (CD and Deck mechanism)
97	AV _{SS}	-	GND terminal
98	VREF	I	Reference voltage input
99	REGIN0	I	Destination select signal input
100	REGIN1	I	Destination select signal input

12 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 manufacturer's 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, it will no longer be available.
- All parts are supplied by SPC.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RKM0400-S1	TOP CABINET	1	
2	RHD30007-1S	SCREW	4	
3	XTB3+8JFZ	SCREW	13	
4	RKA0105-K	RUBBER	4	
5	RKA0106-N	FOOT RING	4	
6	RYP1175-S	FRONT PANEL ASS'Y	1	
6-1	RGB0025-A	TECHNICS BADGE	1	
6-2	RKW0576A-1V	FL WINDOW	1	
7	RGR0285A-E	REAR PANEL	1	
8	REZ1299	WIRE ASS'Y	1	
9	RMN0526	FL HOLDER	1	
C109	ECA1CAK100XB	16V 10U	1	
C131-43	ECUV1H101KCV	50V 100P	13	ECJ1VC1H101K
C201-04	ECBT1H331KB3	50V 330P	4	
C205,06	ECBT1H330J5	50V 33P	2	F1D1H330A006
C207,08	ECEALHKA4R7	50V 4.7U	2	
C209,10	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C211,12	ECBT1H104KB5	50V 0.1U	2	F1D1H1040002
C213-15	ECBT1H470J3	50V 47P	3	
C216,17	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C221,22	ECBA1H101KB5	50V 100P	2	
C223,24	ECA1CAK100XB	16V 10U	2	
C225-28	ECBA1H101KB5	50V 100P	4	
C231-33	ECBA1H101KB5	50V 100P	3	
C301-04	ECEALHKA4R7	50V 4.7U	4	
C305,06	ECBA1H101KB5	50V 100P	2	
C307,08	ECBT1H100JC5	50V 10P	2	F1D1H100A015
C309,10	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C311	ECA1CAK100XB	16V 10U	1	
C312	ECA1CAK220XB	16V 22U	1	
C313,14	ECA1CAK100XB	16V 10U	2	
C315,16	ECBA1H101KB5	50V 100P	2	
C317	ECBT1C562KR5	16V 5600P	1	F1D1C562A010
C318	ECBT1H470J3	50V 47P	1	
C319-22	ECA1CAK100XB	16V 10U	4	
C323,24	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C327	ECBT1H333KB5	50V 0.033U	1	ECBT1H333KB3
C328,29	ECA1CAK220XB	16V 22U	2	
C343,44	ECA1CAK100XB	16V 10U	2	
C345,46	ECBA1H101KB5	50V 100P	2	
C347,48	ECBT1H220J5	50V 22P	2	F1D1H220A006
C349,50	ECA1CAK100XB	16V 10U	2	
C351,52	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C354	ECA1CAK100XB	16V 10U	1	
C356	ECA1CAK100XB	16V 10U	1	
C401	ECJ1VB1E223K	25V 0.022U	1	
C402,03	ECUVNH103KBV	50V 0.01U	2	F1H1H103A748
C404	ECA0JAK470XH	6.3V 47U	1	
C501	ECBT1C103MS5	16V 0.01U	1	F1D1C103A004
C502	ECBT1H331KB3	50V 330P	1	
C503,04	ECBA1H101KB5	50V 100P	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C505	ECBT1C103MS5	16V 0.01U	1	F1D1C103A004
C506	ECA1CAK330XB	16V 33U	1	
C507	RCE1HKAR47BG	50V 0.47U	1	F2A1HR47A015
C508	ECA1CAK100XB	16V 10U	1	
C509,10	ECA1CAK220XB	16V 22U	2	
C511	ECA1CAK100XB	16V 10U	1	
C512	ECA1CAK330XB	16V 33U	1	
C601	ECBT1H104KB5	50V 0.1U	1	F1D1H1040002
C602	ECA0JM102	6.3V 1000U	1	
C603,04	ECBT1H102KB3	50V 1000P	2	
C605	ECA1VAK330XB	35V 33U	1	
C606,07	ECBT1H471KB3	50V 470P	2	
C608	ECBT1H221KB3	50V 220P	1	
C609,10	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C611	ECA1HAK3R3XB	50V 3.3U	1	
C612,13	F2A1C220A034	16V 22U	2	
C614	ECA1CAK100XB	16V 10U	1	
C615	ECA1VAK330XB	35V 33U	1	
C616	ECEALVKS330Q	35V 33U	1	
C618,19	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C620,21	ECA1HAK0R1XB	50V 0.1U	2	
C622,23	ECBT1H104KB5	50V 0.1U	2	F1D1H1040002
C624	ECBT1C103MS5	16V 0.01U	1	F1D1C103A004
C625	ECA0JAK101XB	6.3V 100U	1	
C626	ECBT1H473KB5	50V 0.047U	1	F1D1H473A012
C627,28	F2A1C220A034	16V 22U	2	
C753,54	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C761-63	ECBT1C103MS5	16V 0.01U	3	F1D1C103A004
C764	ECA1AAK221XH	10V 220U	1	
C765	ECBT1C103MS5	16V 0.01U	1	F1D1C103A004
C766	ECA1CAK100XB	16V 10U	1	
C767	ECBT1C103MS5	16V 0.01U	1	F1D1C103A004
C768	ECA1CAK100XB	16V 10U	1	
C769	ECBT1C103MS5	16V 0.01U	1	F1D1C103A004
C770	ECA1CAK100XB	16V 10U	1	
C771,72	ECBT1C103MS5	16V 0.01U	2	F1D1C103A004
C773	ECA1AAK221XH	10V 220U	1	
C774	ECA1CAM221XB	16V 220U	1	
C801	ECJ1VC1H120J	50V 12P	1	
C802	ECJ1VC1H050C	50V 5P	1	
C803	ECJ1VB1H102K	50V 1000P	1	
C804	ECJ1VB1C104K	16V 0.1U	1	
C805	ECJ1VB0J105K	6.3V 1U	1	
C806,07	ECJ1VB1H222K	50V 2200P	2	
C808-10	ECUVNH103KBV	50V 0.01U	3	F1H1H103A748
C811	ECJ1VB1E223K	25V 0.022U	1	
C812	ECJ1VB1C104K	16V 0.1U	1	
C813	ECUVNH103KBV	50V 0.01U	1	F1H1H103A748
C814	ECJ1VB0J105K	6.3V 1U	1	
C815	ECJ1VB1E223K	25V 0.022U	1	
C816	ECJ1VB1C104K	16V 0.1U	1	
C818,19	ECJ1VB1H681K	50V 680P	2	
C820,21	ECEALHKA4R7	50V 4.7U	2	
C822	ECA0JAK470XH	6.3V 47U	1	
C823	EEAFC0J101B	6.3V 100U	1	
C824	ECA0JAK470XH	6.3V 47U	1	
C825-32	ECEALHKA4R7	50V 4.7U	8	
C833-35	ECA0JAK470XH	6.3V 47U	3	
C836,37	ECA1CAK100XB	16V 10U	2	
C838,39	ECA1HAK010XI	50V 1U	2	
C851,52	ECJ1VB1H222K	50V 2200P	2	
C853,54	ECA1CAK100XB	16V 10U	2	
C855,56	ECEALHKA4R7	50V 4.7U	2	
C857,58	ECJ1VB1C104K	16V 0.1U	2	
C859	ECEALHKA4R7	50V 4.7U	1	
C860	ECJ1VB1H222K	50V 2200P	1	
C861	ECJ1VB1H561K	50V 560P	1	
C862	ECUVLH471KCV	50V 470P	1	F1H1H471A013
C863,64	ECA0JAK470XH	6.3V 47U	2	
C865	ECJ1VB0J105K	6.3V 1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C866-68	ECA1HAK010XI	50V 1U	3	
C869	ECUVNH103KBV	50V 0.01U	1	FIH1H103A748
C870	EEAFC0J101B	6.3V 100U	1	
C871,72	ECJ1VB1H222K	50V 2200P	2	
C873-76	ECA1HAK010XI	50V 1U	4	
C877,78	ECUVNH103KBV	50V 0.01U	2	FIH1H103A748
C879,80	ECJ1VB1H222K	50V 2200P	2	
C881,82	ECA1HAK010XI	50V 1U	2	
C883	ECA0JAK470XH	6.3V 47U	1	
C884	ECJ1VB1H222K	50V 2200P	1	
C886	EEAFC0J101B	6.3V 100U	1	
C887,88	ECA0JAK470XH	6.3V 47U	2	
C891	ECUVNH103KBV	50V 0.01U	1	FIH1H103A748
C892	ECA0JAK470XH	6.3V 47U	1	
C893	ECUVNH103KBV	50V 0.01U	1	FIH1H103A748
C894-97	ECJ1VB1E223K	25V 0.022U	4	
C898	EEAFC0J101B	6.3V 100U	1	
C899	ECA0JAK470XH	6.3V 47U	1	
CN201	RJT065A20	SYSTEM CONNECTOR (20P)	1	K1FA220B0007
CN202	RJT065K20	SYSTEM CONNECTOR (20P)	1	K1FA220B0006
D201	MAZ40560MF	DIODE	1	
D203	MA165TA5	DIODE	1	MA2C16500E
D204	MA719	DIODE	1	MA2C719
D301	MA700	DIODE	1	MA2C700
D302	MA165TA5	DIODE	1	MA2C16500E
D304,05	MA719	DIODE	2	MA2C719
D601-04	ISS291TA	DIODE	4	
D605-10	MA165TA5	DIODE	6	MA2C16500E
D611,12	LNJ301MPUJAD	LED	2	
D613-17	B3AHA0000012	LED	5	
D652	MA165TA5	DIODE	1	MA2C16500E
D654,55	MA165TA5	DIODE	2	MA2C16500E
D761	MA4082LTA	DIODE	1	MAZ40820LF
D762	B0AAMM000009	DIODE	1	
D763-66	MA165TA5	DIODE	4	MA2C16500E
D767	MA4051M	DIODE	1	MAZ40510M
D770	MA4062H	DIODE	1	MAZ40620H
D771	MA4051-L	DIODE	1	MAZ40510L
D772	MA165TA5	DIODE	1	MA2C16500E
FL601	A2BD00000041	FL DISPLAY TUBE	1	
IC201	NJU7313AMT2	IC	1	C0JZAS000002
IC202	NJM4558MTE1	IC	1	C0ABBB000109
IC203	C0JBAR000292	IC	1	
IC301	M5218AP	IC	1	C0AABB000055
IC302,03	NJM4558MTE1	IC	2	C0ABBB000109
IC401	C2BBFD000246	IC	1	
IC501	NJM4558MTE1	IC	1	C0ABBB000109
IC601	C2BBGF000434	IC	1	
IC602	M62457AFPE1	IC	1	C1BB00000486
IC801	C2HBZC000010	IC	1	
IC802	C2HBZC000008	IC	1	
JK101	SJF3068-7N	JACK, VDP (AUX)	1	K2HA102B0046
JK102	SJF3069-5N	JACK, VCR (EXT) IN/OUT	1	K2HA204B0083
JK103	SJFD7	JACK, SUB WOOFER OUT	1	K4BK01B00002
JK104	SJF3069-5N	JACK, FRONT, SURROUND SP.	1	K2HA204B0083
JK105	SJF3068-10N	JK, CENTER, SUB WOOFER	1	K2HA102B0043
L101	RLBV252AV-Y	COIL	1	J0JBC0000019
L301,02	RLQA3R3JT1-Y	COIL	2	G0C3R3JA0019
L401	RLQB100JTD-D	COIL	1	G0C100JA0030
L502	RLBV252AV-Y	COIL	1	J0JBC0000019
L601	G0C100JA0019	COIL	1	

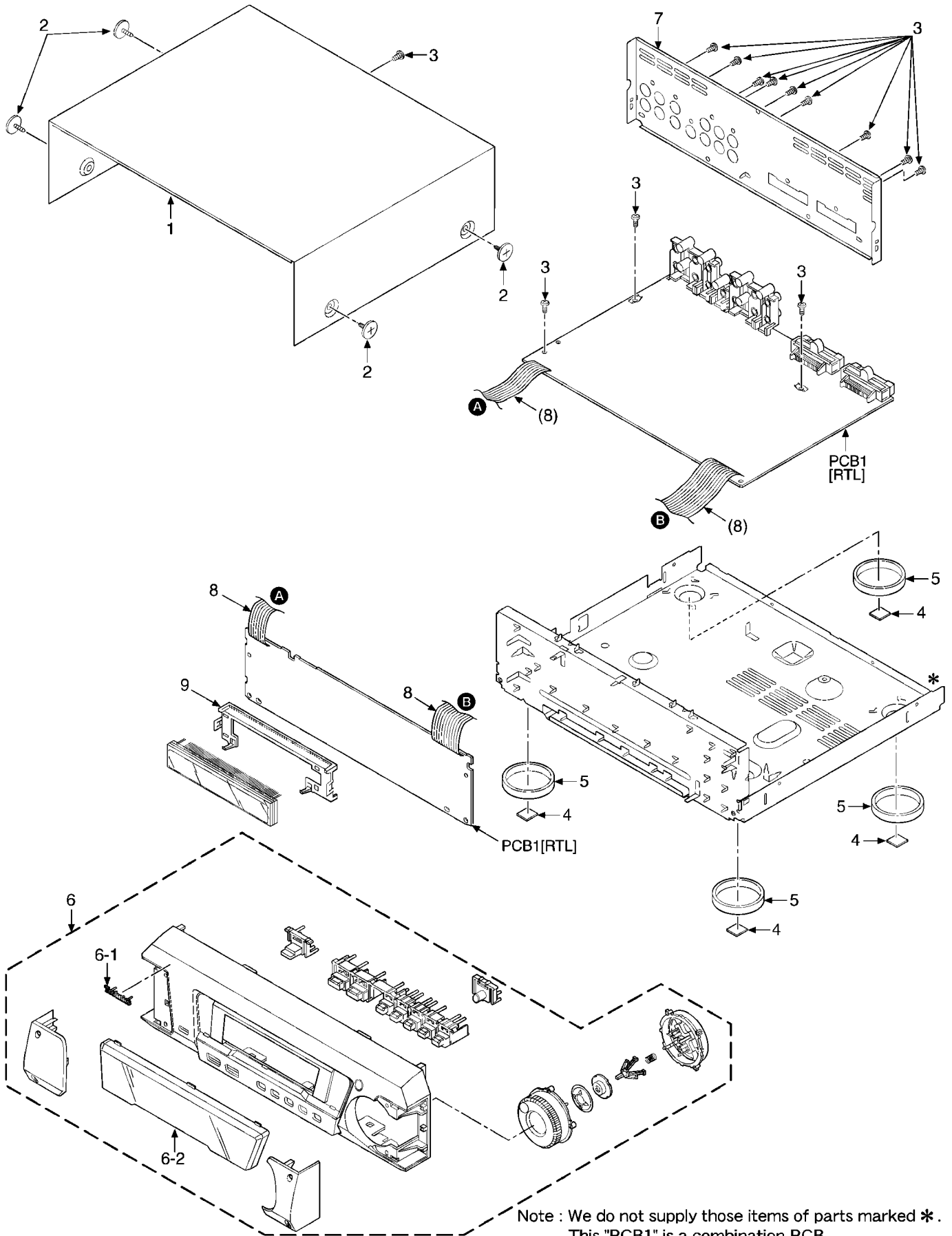
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L801	J0JCC0000077	COIL	1	
L802	RLBV102V-Y	COIL	1	J0JBC0000014
L804	RLBV102V-Y	COIL	1	J0JBC0000014
L806	RLBV102V-Y	COIL	1	J0JBC0000014
L807	G0A200D00002	COIL	1	△
L808	RLQB100JTD-D	COIL	1	G0C100JA0030
L811	RLBV102V-Y	COIL	1	J0JBC0000014
L814	G0A200D00002	COIL	1	△
L821,22	RLBV252AV-Y	COIL	2	J0JBC0000019
PCB1	REP3073G-M	PCB ASS'Y	1	[RTL]
Q301-04	2SD2144S	TRANSISTOR	4	
Q305,06	UN411FTA	TRANSISTOR	2	UNR411F00A
Q307-10	2SD2144S	TRANSISTOR	4	
Q313-16	2SD2144S	TRANSISTOR	4	
Q501,02	UN411FTA	TRANSISTOR	2	UNR411F00A
Q503-05	2SD2144S	TRANSISTOR	3	
Q506	UN411FTA	TRANSISTOR	1	UNR411F00A
Q507	2SD2144S	TRANSISTOR	1	
Q601	UN4211	TRANSISTOR	1	UNR4211
Q602-04	2SC3311A	TRANSISTOR	3	2SC3311AW
Q605,06	UN5211TX	TRANSISTOR	2	UNR521100L
Q761,62	2SD2137PQTA	TRANSISTOR	2	2SD21370PA
Q763	2SD592A	TRANSISTOR	1	2SD0592AW
Q764	2SB062LAHA	TRANSISTOR	1	
Q765	2SC3311A	TRANSISTOR	1	2SC3311AW
Q766	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q767	2SC3311A	TRANSISTOR	1	2SC3311AW
Q768	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA
R101,02	ERDS2FJ104	1/4W 100K	2	
R103,04	ERDS2FJ102	1/4W 1K	2	
R105,06	ERDS2FJ123	1/4W 12K	2	
R107,08	ERDS2FJ332	1/4W 3.3K	2	
R111,12	ERDS2FJ332	1/4W 3.3K	2	
R113,14	ERDS2FJ123	1/4W 12K	2	
R115,16	ERDS2FJ822	1/4W 8.2K	2	
R117-20	ERDS2FJ562	1/4W 5.6K	4	
R121-23	ERDS2FJ822	1/4W 8.2K	3	
R124	ERDS2FJ103	1/4W 10K	1	
R125	ERDS2FJ562	1/4W 5.6K	1	
R126	ERDS2FJ822	1/4W 8.2K	1	
R127	ERDS2FJ104	1/4W 100K	1	
R128	ERDS2FJ102	1/4W 1K	1	
R131,32	ERJ3GEY0R00V	1/16W 0	2	
R203,04	ERDS2FJ222	1/4W 2.2K	2	
R205,06	ERDS2FJ563	1/4W 56K	2	
R207,08	ERDS2FJ273	1/4W 27K	2	
R209,10	ERDS2TJ823	1/4W 82K	2	ERDS2TJ823T
R211-14	ERDS2FJ222	1/4W 2.2K	4	
R219	ERDS2FJ391	1/4W 390	1	
R220	ERDS2FJ104	1/4W 100K	1	
R221,22	ERDS2FJ221	1/4W 220	2	
R223,24	ERDS2FJ223	1/4W 22K	2	
R227,28	ERDS2TJ682	1/4W 6.8K	2	ERDS2TJ682T
R229,30	ERDS2FJ562	1/4W 5.6K	2	
R233-36	ERDS2FJ102	1/4W 1K	4	
R237,38	ERDS2FJ822	1/4W 8.2K	2	
R239	ERDS2FJ473	1/4W 47K	1	
R240	ERDS2FJ102	1/4W 1K	1	
R249,50	ERDS2FJ222	1/4W 2.2K	2	
R253,54	ERDS2T0	1/4W 0	2	
R255,56	ERDS2FJ472	1/4W 4.7K	2	
R257,58	ERDS2FJ562	1/4W 5.6K	2	
R303,04	ERDS2FJ223	1/4W 22K	2	
R305-08	ERDS2FJ102	1/4W 1K	4	
R309,10	ERDS2FJ561	1/4W 560	2	
R311	ERDS2FJ223	1/4W 22K	1	
R312	ERDS2FJ182	1/4W 1.8K	1	
R313,14	ERDS2TJ392	1/4W 3.9K	2	
R315,16	ERDS2FJ274	1/4W 270K	2	
R317	ERDS2FJ223	1/4W 22K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R318	ERDS2FJ101	1/4W 100	1	
R319	ERDS2FJ154	1/4W 150K	1	
R322	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
R323, 24	ERDS2FJ120	1/4W 12	2	
R325, 26	ERDS2FJ102	1/4W 1K	2	
R327, 28	ERDS2FJ561	1/4W 560	2	
R329	ERDS2FJ564	1/4W 560K	1	
R330	ERDS2FJ104	1/4W 100K	1	
R331, 32	ERDS2FJ222	1/4W 2.2K	2	
R333, 34	ERDS2FJ563	1/4W 56K	2	
R335, 36	ERDS2FJ102	1/4W 1K	2	
R337	ERDS2FJ391	1/4W 390	1	
R338	ERDS2FJ471	1/4W 470	1	
R345-47	ERDS2FJ102	1/4W 1K	3	
R348	ERDS2FJ222	1/4W 2.2K	1	
R349	ERDS2FJ123	1/4W 12K	1	
R350	ERDS2FJ103	1/4W 10K	1	
R351	ERDS2FJ224	1/4W 220K	1	
R352	ERDS2FJ103	1/4W 10K	1	
R353	ERDS2FJ224	1/4W 220K	1	
R354	ERDS2FJ332	1/4W 3.3K	1	
R357, 58	ERDS2FJ223	1/4W 22K	2	
R359, 60	ERDS2FJ821	1/4W 820	2	
R361, 62	ERDS2TJ682	1/4W 6.8K	2	ERDS2TJ682T
R363, 64	ERDS2FJ102	1/4W 1K	2	
R365, 66	ERDS2TJ184T	1/4W 180K	2	
R367, 68	ERDS2FJ471	1/4W 470	2	
R372	ERDS2T0	1/4W 0	1	
R374	ERDS2T0	1/4W 0	1	
R402	ERJ3GEYJ104	1/16W 100K	1	
R403	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R404	ERJ3GEYJ104	1/16W 100K	1	
R405-10	ERJ3GEYJ221V	1/16W 220	6	
R411	ERDS2FJ102	1/4W 1K	1	
R414, 15	ERDS2FJ102	1/4W 1K	2	
R417	ERJ3GEYJ221V	1/16W 220	1	
R419	ERDS2FJ101	1/4W 100	1	
R420	ERDS2FJ102	1/4W 1K	1	
R421	ERDS2FJ101	1/4W 100	1	
R424	ERDS2FJ102	1/4W 1K	1	
R425, 26	ERDS2FJ472	1/4W 4.7K	2	
R429	ERDS2FJ472	1/4W 4.7K	1	
R430, 31	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R432	ERDS2FJ102	1/4W 1K	1	
R501	ERDS2FJ152	1/4W 1.5K	1	
R502	ERDS2FJ102	1/4W 1K	1	
R503	ERDS2FJ122	1/4W 1.2K	1	
R504	ERDS2TJ124	1/4W 120K	1	
R505	ERDS2FJ102	1/4W 1K	1	
R506	ERDS2TJ272T	1/4W 2.7K	1	
R507	ERDS2TJ105	1/4W 1M	1	ERDS2TJ105T
R508	ERDS2FJ104	1/4W 100K	1	
R509	ERDS2FJ222	1/4W 2.2K	1	
R510	ERDS2FJ104	1/4W 100K	1	
R511	ERDS2TJ105	1/4W 1M	1	ERDS2TJ105T
R512	ERDS2FJ154	1/4W 150K	1	
R513	ERDS2FJ102	1/4W 1K	1	
R514	ERDS2FJ101	1/4W 100	1	
R515	ERDS2FJ223	1/4W 22K	1	
R517	ERDS2FJ821	1/4W 820	1	
R518	ERDS2FJ222	1/4W 2.2K	1	
R519	ERDS2FJ154	1/4W 150K	1	
R520	ERDS2FJ122	1/4W 1.2K	1	
R601-03	ERDS2FJ102	1/4W 1K	3	
R604, 05	ERDS2FJ103	1/4W 10K	2	
R606	ERDS2FJ102	1/4W 1K	1	
R607, 08	ERDS2FJ221	1/4W 220	2	
R609	ERDS2FJ222	1/4W 2.2K	1	
R610	ERDS2FJ332	1/4W 3.3K	1	
R611	ERDS2FJ101	1/4W 100	1	
R612	ERDS2FJ102	1/4W 1K	1	
R613	ERDS2FJ562	1/4W 5.6K	1	
R614-17	ERDS2FJ102	1/4W 1K	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R618	ERDS2FJ104	1/4W 100K	1	
R619	ERDS2FJ681	1/4W 680	1	
R622, 23	ERDS2FJ104	1/4W 100K	2	
R624-29	ERDS2TJ181	1/4W 180	6	
R631	ERDS2FJ821	1/4W 820	1	
R632	ERDS2FJ102	1/4W 1K	1	
R633	ERDS2FJ122	1/4W 1.2K	1	
R634	ERDS2FJ152	1/4W 1.5K	1	
R635	ERDS2FJ182	1/4W 1.8K	1	
R636	ERDS2FJ222	1/4W 2.2K	1	
R637	ERDS2FJ821	1/4W 820	1	
R638	ERDS2FJ102	1/4W 1K	1	
R639	ERDS2FJ122	1/4W 1.2K	1	
R640	ERDS2FJ152	1/4W 1.5K	1	
R641	ERDS2FJ182	1/4W 1.8K	1	
R642	ERDS2FJ222	1/4W 2.2K	1	
R647	ERDS2FJ223	1/4W 22K	1	
R648-50	ERDS2FJ104	1/4W 100K	3	
R651	ERDS2FJ102	1/4W 1K	1	
R652, 53	ERDS2FJ472	1/4W 4.7K	2	
R654-56	ERDS2FJ103	1/4W 10K	3	
R657	ERDS2FJ473	1/4W 47K	1	
R658, 59	ERDS2FJ472	1/4W 4.7K	2	
R660	ERDS2FJ473	1/4W 47K	1	
R661	ERDS2FJ223	1/4W 22K	1	
R662	ERDS2FJ102	1/4W 1K	1	
R663, 64	ERDS2FJ331	1/4W 330	2	
R665-67	ERDS2FJ473	1/4W 47K	3	
R668	ERDS2FJ222	1/4W 2.2K	1	
R671-80	ERJ6GEYJ104V	1/10W 100K	10	
R681	ERJ3GEYJ222V	1/16W 2.2K	1	
R682	ERJ3GEY0R00V	1/16W 0	1	
R686	ERJ3GEY0R00V	1/16W 0	1	
R691, 92	ERDS2FJ221	1/4W 220	2	
R716	ERDS2FJ821	1/4W 820	1	
R761, 62	ERDS2FJ2R2	1/4W 2.2	2	
R763	ERQ16NKR33E	1/6W 0.33	1	
R764	ERDS2FJ821	1/4W 820	1	
R765	ERDS2FJ221	1/4W 220	1	
R766	ERDS2FJ182	1/4W 1.8K	1	
R767	ERDS2FJ102	1/4W 1K	1	
R768, 69	ERDS2FJ122	1/4W 1.2K	2	
R770	ERD2FCJ4R7	1/4W 4.7	1	
R771	ERDS2FJ102	1/4W 1K	1	
R772	ERDS2FJ122	1/4W 1.2K	1	
R773	ERDS2FJ102	1/4W 1K	1	
R774	ERDS2FJ221	1/4W 220	1	
R801	ERJ3GEYJ221V	1/16W 220	1	
R802	ERJ3GEYJ105V	1/16W 1M	1	
R803	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R804-07	ERJ3GEYJ271V	1/16W 270	4	
R808-10	ERJ3GEYJ331V	1/16W 330	3	
R811	ERJ3GEYJ472V	1/16W 4.7K	1	
R812	ERJ3GEYJ331V	1/16W 330	1	
R813	ERJ3GEYJ472V	1/16W 4.7K	1	
R814	ERJ3GEYJ104	1/16W 100K	1	
R815-20	ERJ3GEYJ102V	1/16W 1K	6	
R821	ERJ3GEYJ331V	1/16W 330	1	
R823	ERJ3GEYJ331V	1/16W 330	1	
R824, 25	ERDS2TJ124	1/4W 120K	2	
R827	ERJ3GEY0R00V	1/16W 0	1	
R829	ERJ3GEYJ222V	1/16W 2.2K	1	
R830	ERJ3GEYJ472V	1/16W 4.7K	1	
R833, 34	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R835, 36	ERJ3GEYJ152V	1/16W 1.5K	2	
R851, 52	ERJ3GEYJ102V	1/16W 1K	2	
R854	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R855	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002
R856	ERJ3GEY0R00V	1/16W 0	1	
R857-59	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R860	ERJ3GEYJ560V	1/16W 56	1	
R861	ERJ3GEYJ104	1/16W 100K	1	
R863, 64	MCR03PZHJ561	1/16W 560	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R866	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R867,68	MCR03PZHJ561	1/16W 560	2	
R869-72	ERJ3GEYJ271V	1/16W 270	4	
R873,74	ERJ3GEYJ331V	1/16W 330	2	
R875,76	ERJ3GEYJ271V	1/16W 270	2	
R877,78	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R879,80	ERJ3GEYJ222V	1/16W 2.2K	2	
R881	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R882	ERJ3GEYJ105V	1/16W 1M	1	
R888,89	ERJ3GEYJ331V	1/16W 330	2	
R890	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R891,92	ERJ3GEYJ222V	1/16W 2.2K	2	
R898	ERJ3GEY0R00V	1/16W 0	1	
R900	ERJ3GEY0R00V	1/16W 0	1	
R903	ERDS2TJ124	1/4W 120K	1	
S601-07	EVQ11G05R	SW,OPERATION	7	
S608-11	EVQ11G07K	SW,OPERATION	4	
S612,13	EVQ11G05R	SW,OPERATION	2	
S614	ESE24SV7	SW,MULTI JOG	1	
X401	RSXY8M00D01T	OSCILLATOR	1	H2B800400005
X601	H2B400400013	OSCILLATOR	1	
X801	RSXZ36M8M01T	OSCILLATOR	1	

13 Cabinet Parts Location



Note : We do not supply those items of parts marked * .
This "PCB1" is a combination PCB.