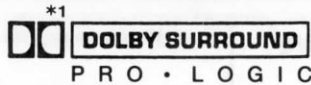


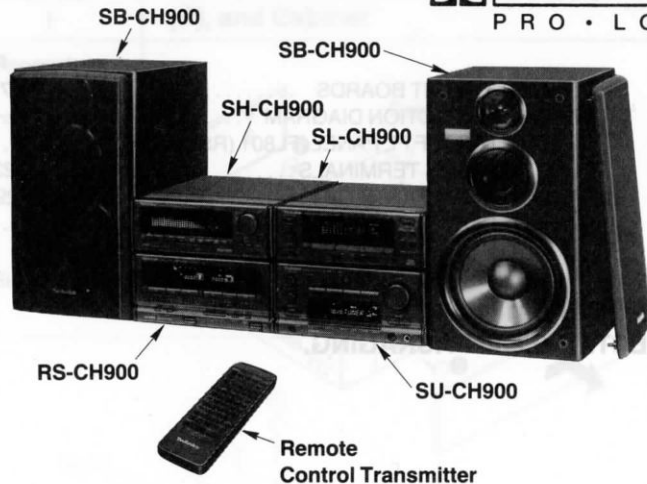
Service Manual

Sound Processor



Sound Processor

SH-CH900



radio en televisieservice
„KEES van de MORTEL”
 Bokshevelstraat 14
 5222 AN 's-HERTOGENBOSCH
 Tel.: 073 - 218344

Color

(K) Black Type

Area

Country Code	Area	Color
(E)	Continental Europe. Great Britain. Germany and Italy. Asia, Latin America, Middle Near East and Africa. Oceania.	(K)

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

System: SC-CH900

SPECIFICATIONS

■ PRE AMP. SECTION

Input sensitivity and impedance

PHONO 2.5 mV/47 kΩ
 VCR/VDP (input with PHONO PIN) 250 mV/18 kΩ

Total harmonic distortion

1 kHz, -3 dB output 0.08%

■ DOLBY PRO-LOGIC, EQUALIZER, SOUND FIELD PROCESSOR SECTION

Dolby surround

Mode NORMAL, WIDE, PHANTOM,
3 STEREO

Delay time 15-30 m sec.

Tone control Bass ±10 dB

Treble ±10 dB

Equalizer

Center frequency

LOW 31.5, 40, 50, 63,
80, 100, 125, 160, 220 (Hz)

HIGH1, 2 315, 450, 630, 800,
1 k, 1.25 k, 1.6 k, 2.2 k, 3.15 k,

4.5 k, 6.3 k, 8 k, 10 k, 12.5 k, 16 k (Hz)

Level control LOW, HIGH1, 2 ±12 dB

(Q) control Narrow 1.8

Wide 0.7

Fixed mode

Equalizer (6 modes) HEAVY, CLEAR, SOFT, VOCAL
HEADPHONE STEREO, CAR STEREO

Sound Field Processor (6 modes)

HALL, LIVE, DISCO, CHURCH
STADIUM, THEATER

Frequency response

PHONO RIAA STANDARD CURVE
(30 Hz-15 kHz) +1.0, -1.5 dB

TUNER, TAPE, VCR 15 Hz-20 kHz, -1 dB

CD, DAT, VDP 15 Hz-20 kHz, -1 dB

S/N

PHONO 64 dB (DIN)

85 dB (IHF, at full scale input, IHF A)

TUNER, TAPE, VCR 71 dB (DIN)

CD, DAT, VDP 90 dB (IHF, at full scale input, IHF A)

Key control 93 dB

Mic echo -300~+300 cent

Video output 0.2-1.6 sec

MONITOR

1 Vpp/75Ω

VCR REC OUT 1 Vpp/75Ω

■ GENERAL

Dimensions (W×H×D) 230×83×292 mm

Weight 1.95 kg

Notes:

1. Specifications are subject to change without notice.
2. Weight and dimensions shown are approximate.
3. Total harmonic distortion is measured by the digital spectrum analyzer.

System	Tuner/CD player	Sound Processor	Amplifier	Cassette Deck	Speakers
SC-CH900	SL-CH900	SH-CH900	SU-CH900	RS-CH900	*SB-CH900

*(E) area...Made in PAES

Technics

*Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licenced under one or more of the following patents: U.S. numbers 3,632,886, 3,746,792 and 3,959,590; Canadian numbers 1,004,603 and 1,037,877.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

■ CONTENTS

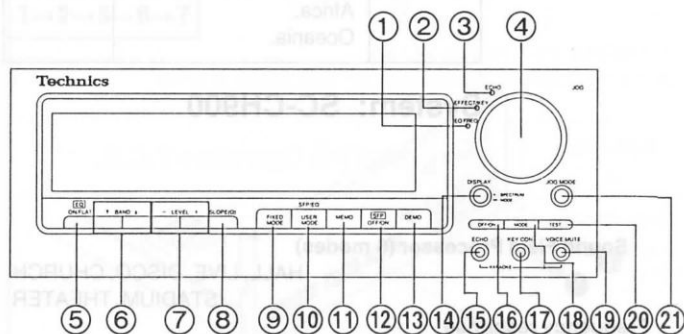
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SCHEMATIC DIAGRAM (Main/Input-Output/Dolby circuit)	8~14
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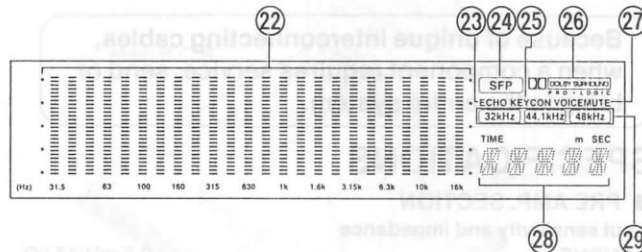
NOTES:

Refer to the service manual for Model No. SU-CH900, Order No. AD9111260C8 for information on ACCESSORIES, INSTALLATION OF THE SYSTEM, CONNECTIONS and PACKAGING.

■ LOCATION OF CONTROLS



- ① Equalizer frequency indicator (EQ FREQ)
- ② Effect/key control indicator (EFFECT/KEY)
- ③ Echo indicator (ECHO)
- ④ Sound effect level control (JOG)
- ⑤ Equalizer ON/FLAT button (EQ. ON/FLAT)
- ⑥ Equalizer frequency select buttons (▼ BAND ▲)
- ⑦ Equalizer level-control buttons (- LEVEL +)
- ⑧ Slope (Q) select button [SLOPE (Q)]
- ⑨ Fixed mode select button (FIXED MODE)
- ⑩ User mode select button (USER MODE)
- ⑪ Memory button (MEMO)
- ⑫ SFP OFF/ON button (SFP. OFF/ON)
- ⑬ Demonstration button (DEMO)
- ⑭ Display mode select button (DISPLAY, -SPECTRUM -MODE)
- ⑮ Echo button (ECHO)
- ⑯ Dolby Pro-Logic surround button (OFF/ON)

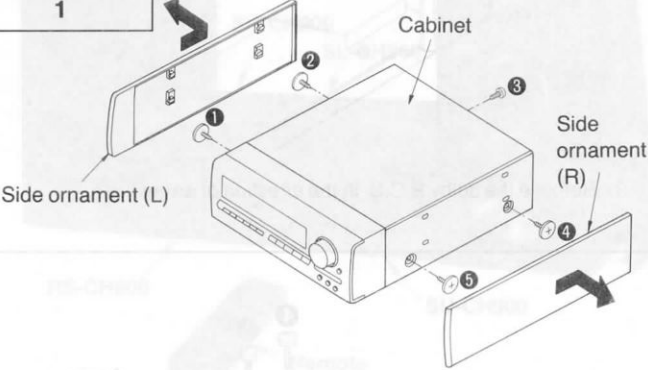
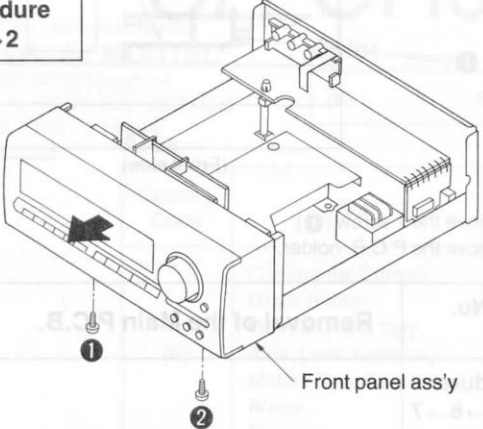
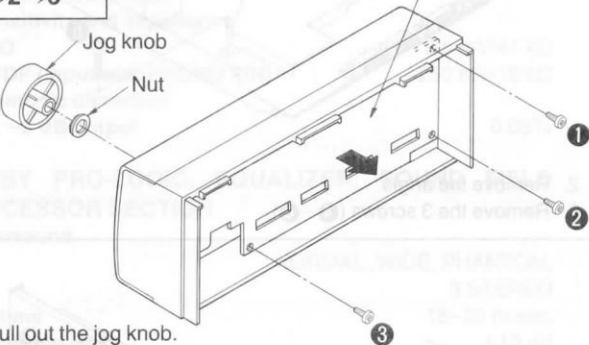
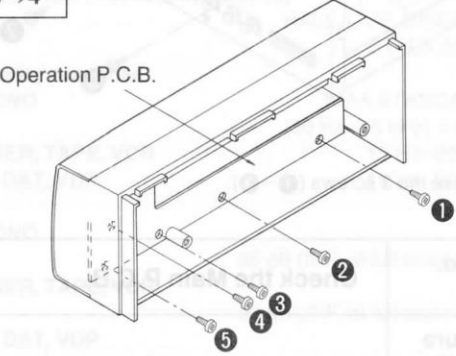
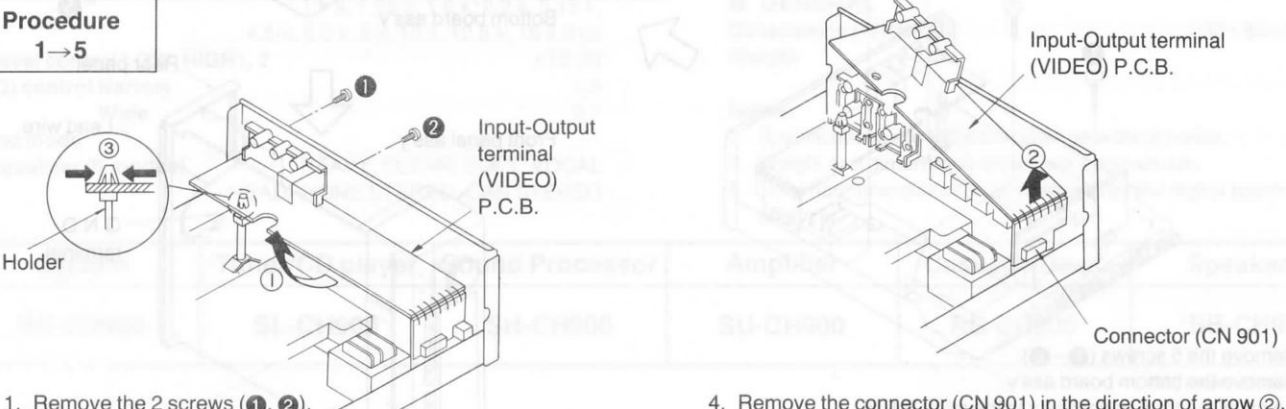


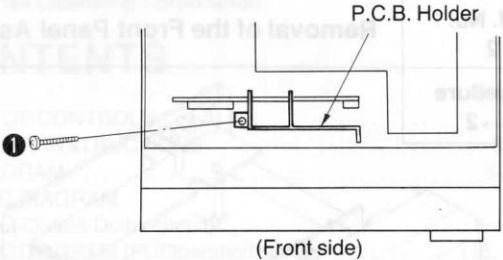
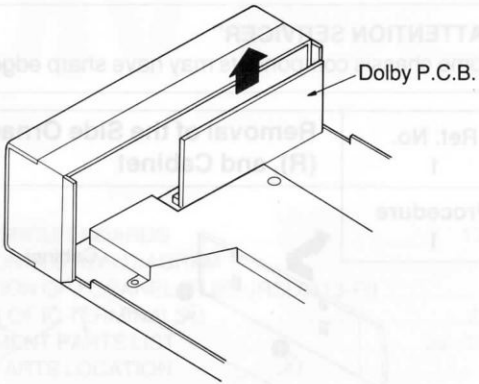
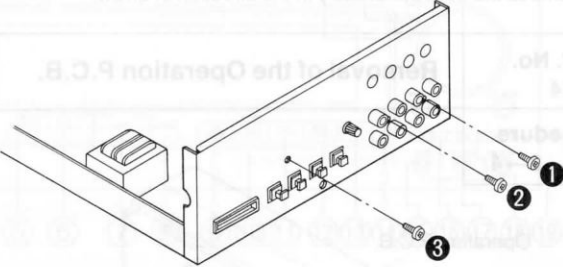
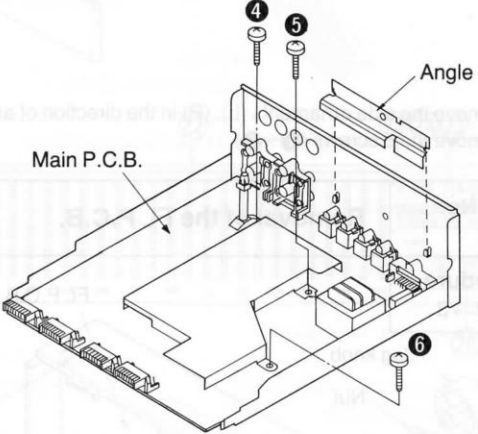
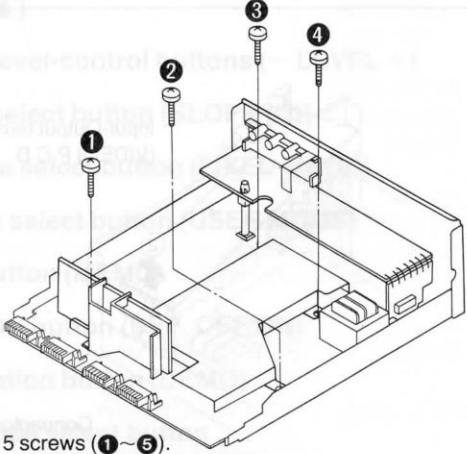
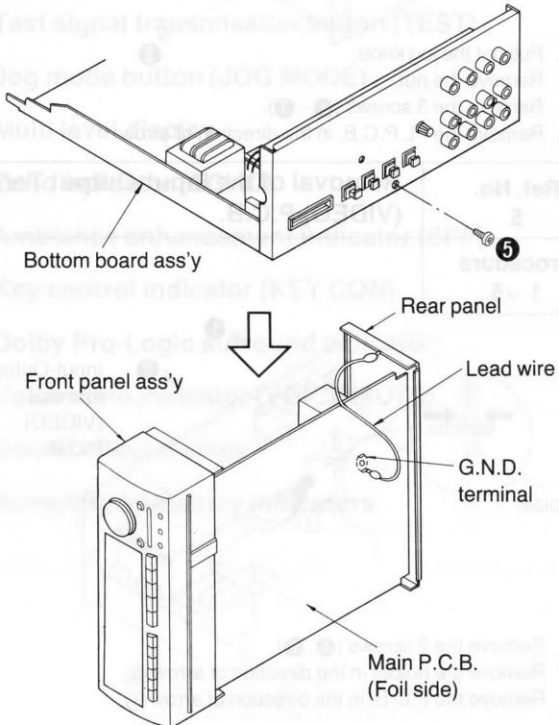
- ⑰ Key control button (KEY CON)
- ⑱ Dolby Pro-Logic mode select button (MODE)
- ⑲ Voice mute button (VOICE MUTE)
- ⑳ Test signal transmission button (TEST)
- ㉑ Jog mode button (JOG MODE)
- ㉒ Multi level display
- ㉓ Echo indicator (ECHO)
- ㉔ Ambience enhancement indicator (SFP)
- ㉕ Key control indicator (KEY CON)
- ㉖ Dolby Pro-Logic surround indicator
- ㉗ Voice mute indicator (VOICE MUTE)
- ㉘ Sound effect display
- ㉙ Sampling frequency indicators

DISASSEMBLY INSTRUCTIONS

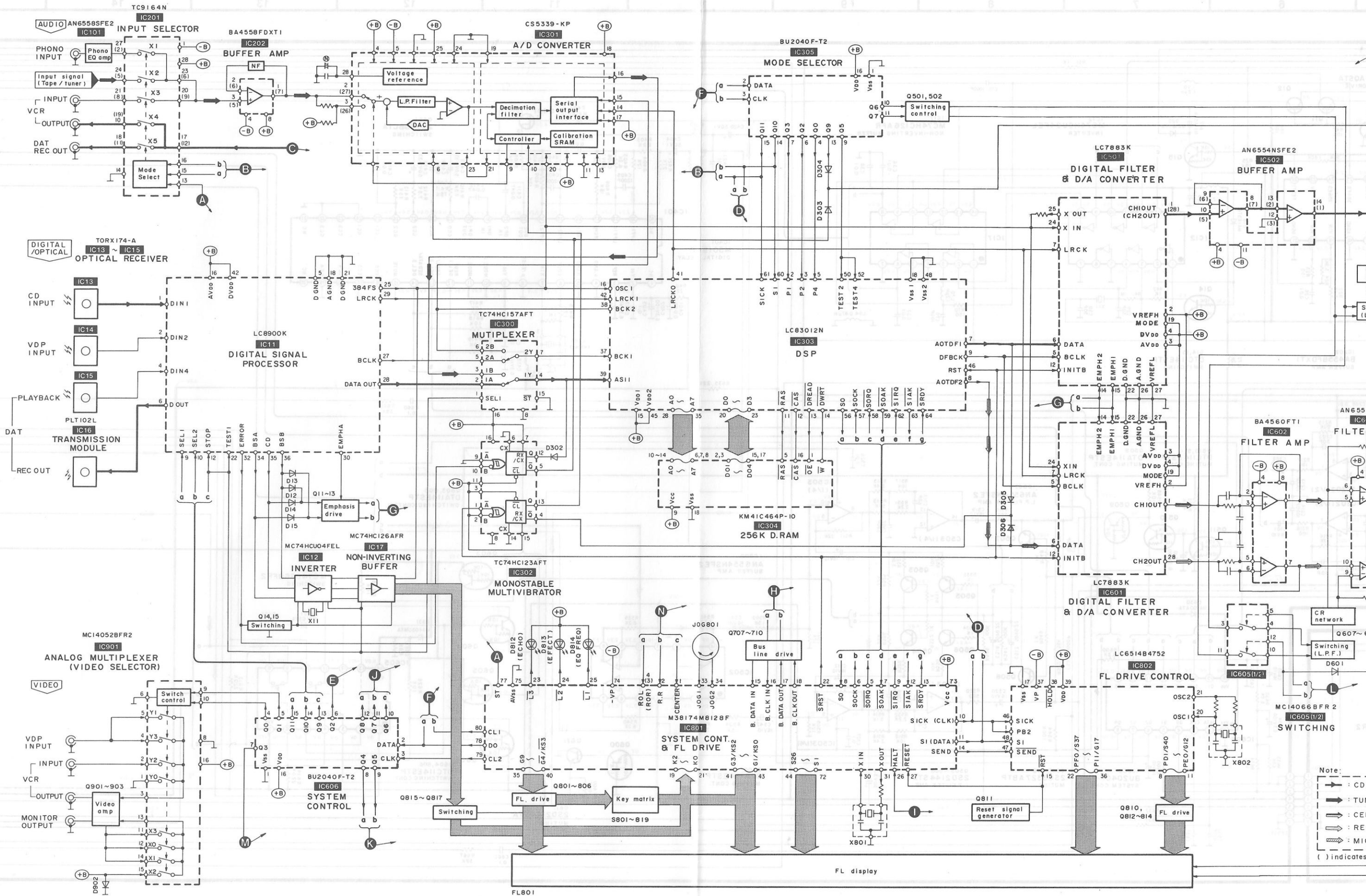
"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

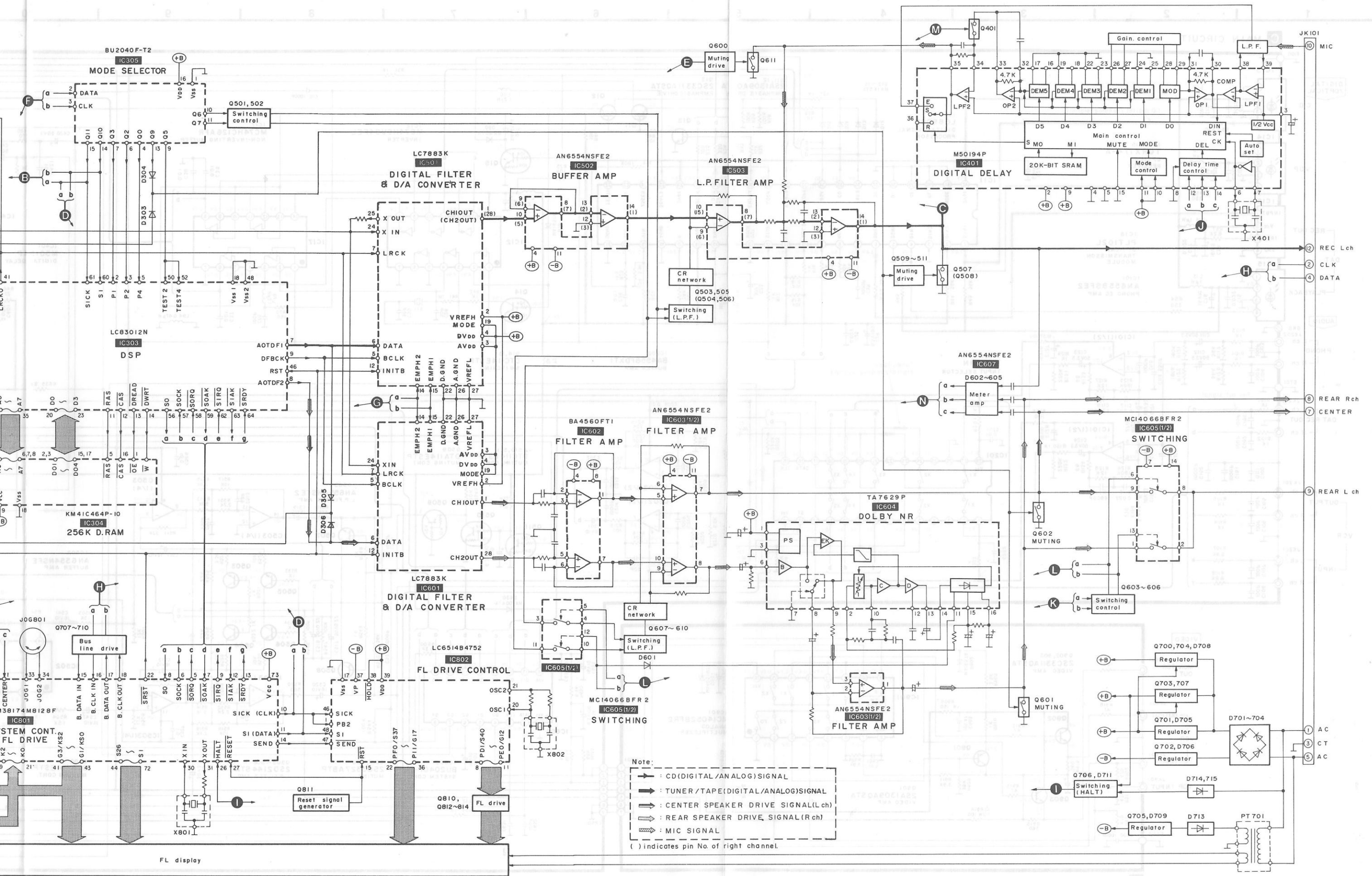
<p>Ref. No. 1</p>	<p>Removal of the Side Ornaments (L), (R), and Cabinet</p>	<p>Ref. No. 2</p>	<p>Removal of the Front Panel Ass'y</p>
<p>Procedure 1</p>	 <p>1. Remove the side ornaments (L), (R) in the direction of arrow. 2. Remove the 5 screws (1~5).</p>	<p>Procedure 1→2</p>	 <p>1. Remove the 2 screws (1~2). 2. Remove the front panel ass'y in the direction of arrow.</p>
<p>Ref. No. 3</p>	<p>Removal of the FL P.C.B.</p>	<p>Ref. No. 4</p>	<p>Removal of the Operation P.C.B.</p>
<p>Procedure 1→2→3</p>	 <p>1. Pull out the jog knob. 2. Remove the nut. 3. Remove the 3 screws (1~3). 4. Remove the FL P.C.B. in the direction of arrow.</p>	<p>Procedure 1→2→3→4</p>	 <p>• Remove the 5 screws (1~5).</p>
<p>Ref. No. 5</p>	<p>Removal of the Input-Output Terminal (VIDEO) P.C.B.</p>	 <p>1. Remove the 2 screws (1, 2). 2. Remove the holder in the direction of arrow ③. 3. Remove the P.C.B. in the direction of arrow ①.</p> <p>4. Remove the connector (CN 901) in the direction of arrow ②.</p>	

Ref. No. 6	Removal of the Dolby P.C.B.	
Procedure 1→6		
 <p>(Front side)</p>	 <p>Dolby P.C.B.</p>	<p>1. Remove the 1 screw (1).</p> <p>2. Remove the P.C.B. holder.</p> <p>3. Remove the dolby P.C.B. in the direction of arrow.</p>
Ref. No. 7	Removal of the Main P.C.B.	
Procedure 1→2→5→6→7		
	 <p>Main P.C.B.</p> <p>Angle</p>	<p>1. Remove the 3 screws (1~3).</p> <p>2. Remove the angle.</p> <p>3. Remove the 3 screws (4~6).</p>
Ref. No. 8	Check the Main P.C.B.	
Procedure 1→2→8		
	 <p>Bottom board ass'y</p> <p>Front panel ass'y</p> <p>Rear panel</p> <p>Lead wire</p> <p>G.N.D. terminal</p> <p>Main P.C.B. (Foil side)</p>	<p>1. Remove the 5 screws (1~5).</p> <p>2. Remove the bottom board ass'y.</p> <p>3. Reinstall the front panel ass'y to the main P.C.B.</p> <p>4. Connect the G.N.D. terminal to the rear panel by the lead wire.</p> <p>5. Check the main P.C.B. as shown in the figure.</p>

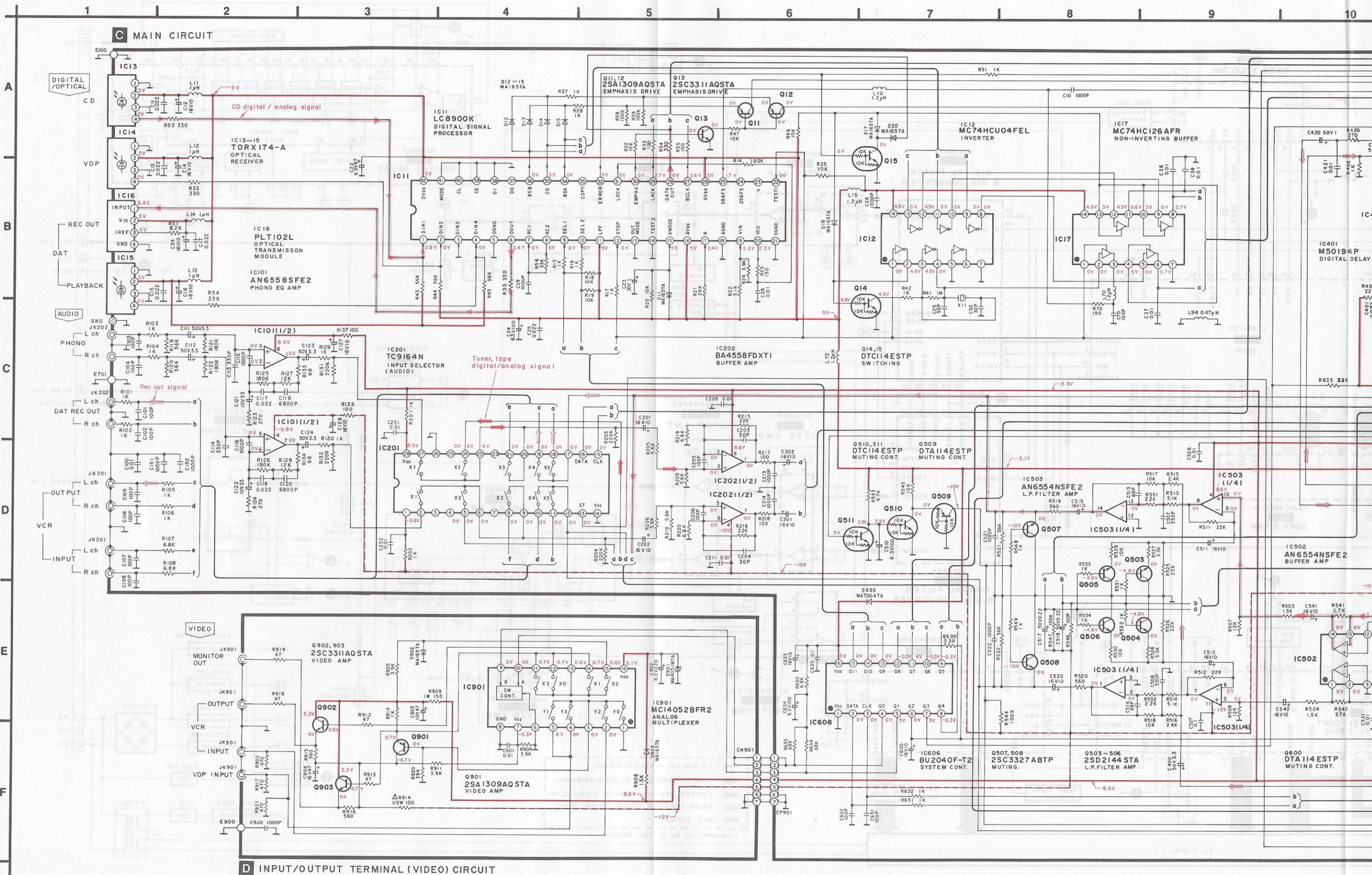
BLOCK DIAGRAM

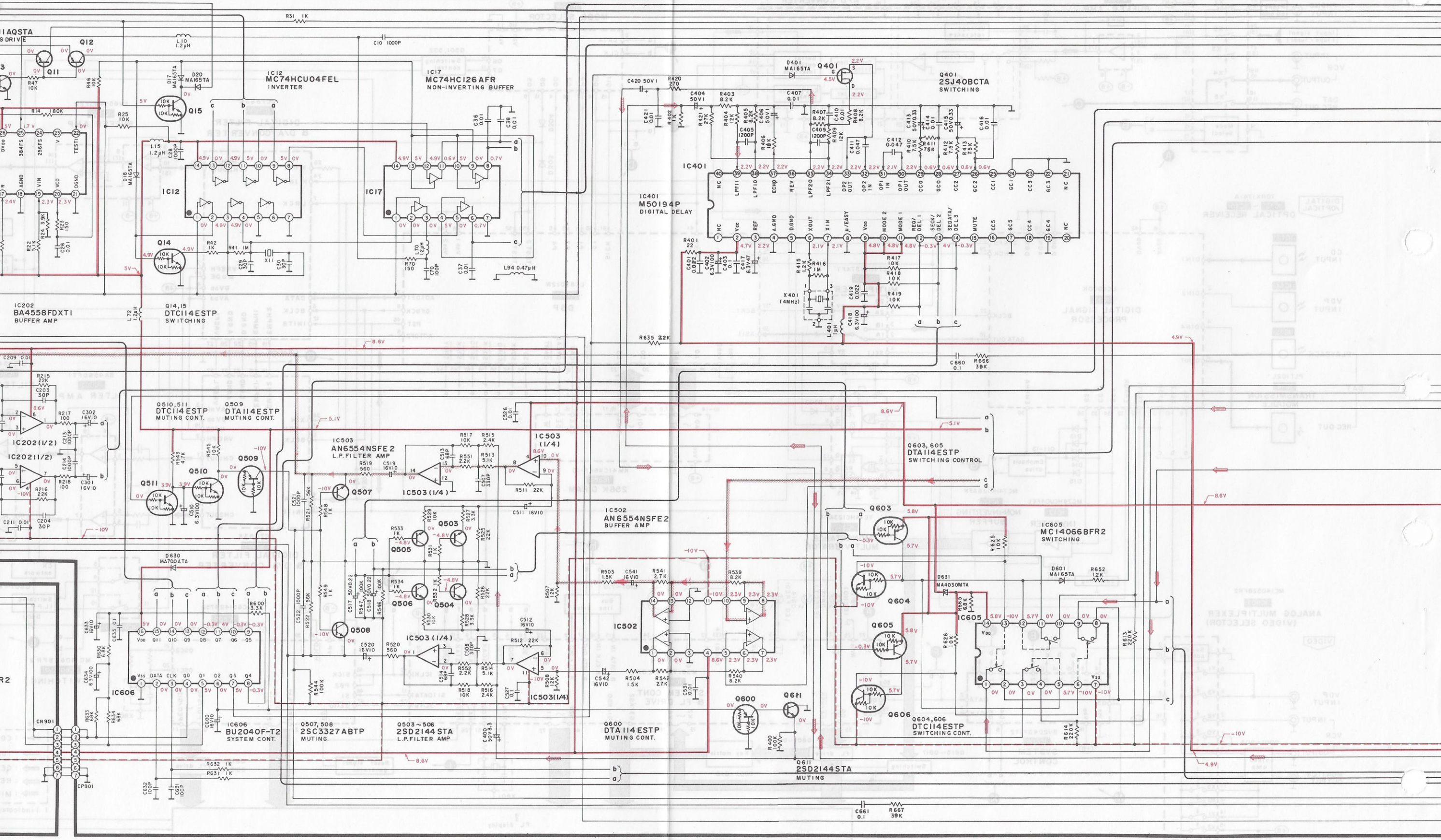


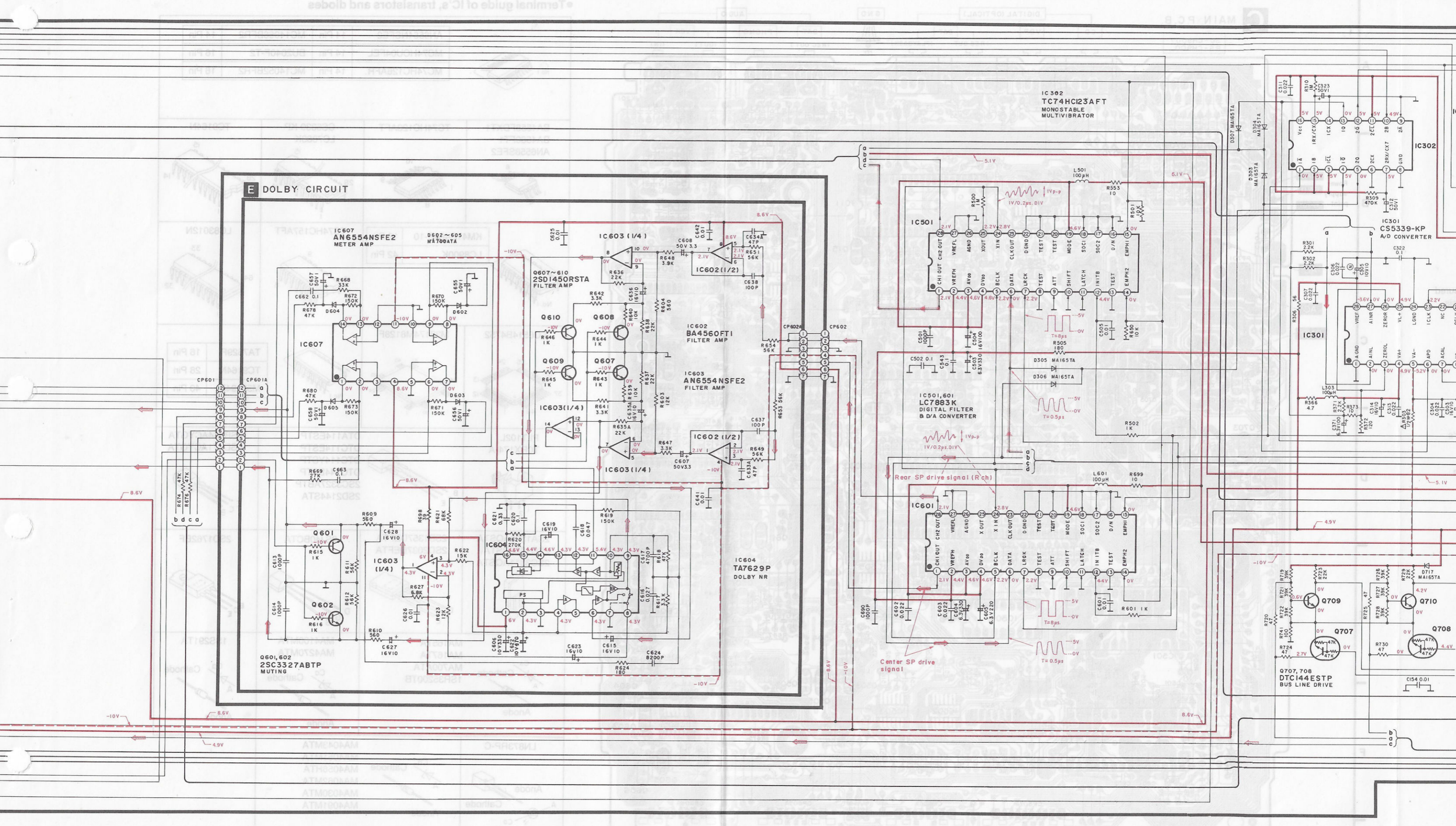
Note:
 → : CD
 → : TUN
 → : CEN
 → : REA
 → : MIC
 () indicates

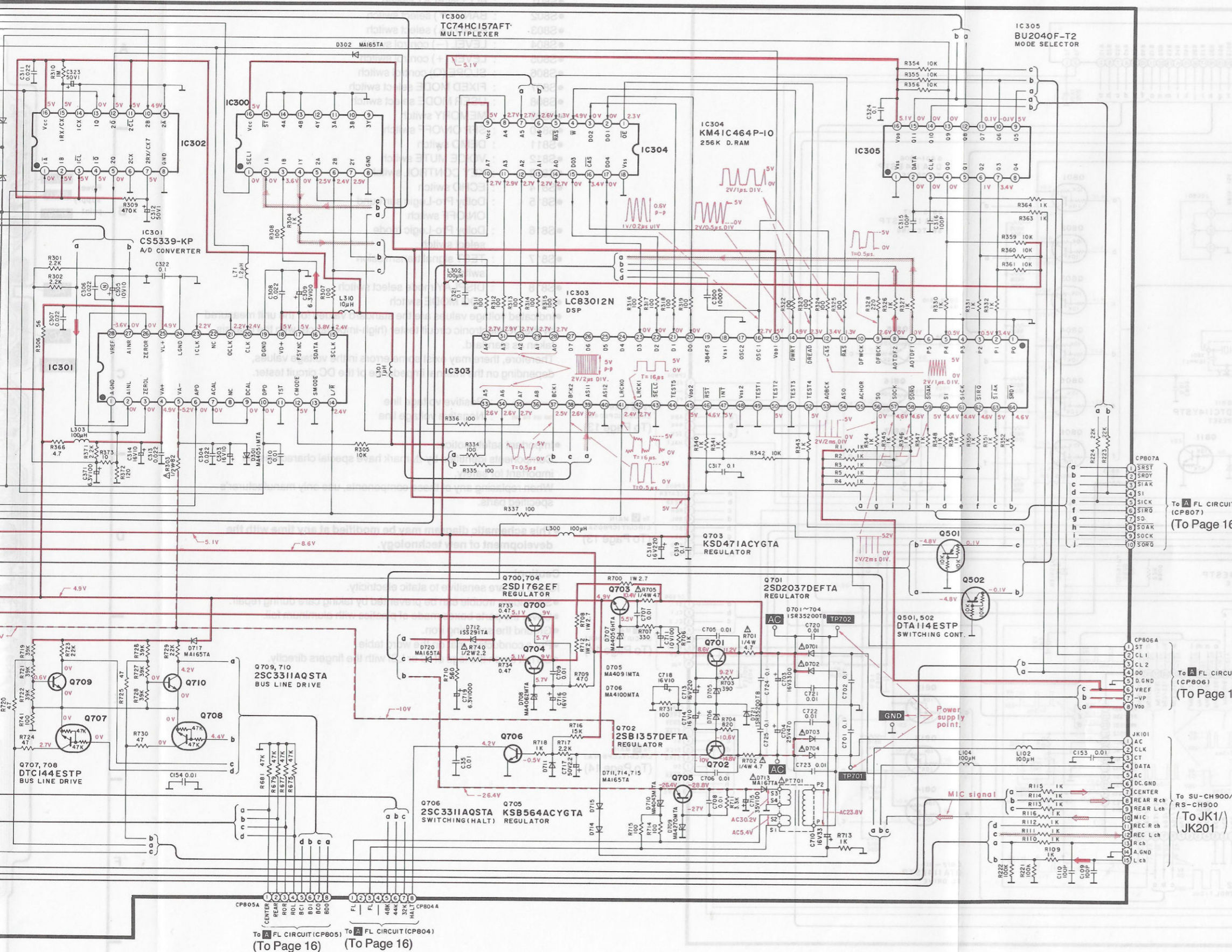


SCHEMATIC DIAGRAM (Main/Input-Output/Dolby circuit) (Parts list on pages 25~29)









Notes:

• 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.

- : Positive voltage line
- : REC Output signal line
- : MIC signal line
- : CD Digital/Analog signal line
- - - : Negative voltage line
- : Tune/Tape Digital/Analog signal line
- : Center S.P drive signal line
- : Rear S.P drive signal line

• Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

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

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

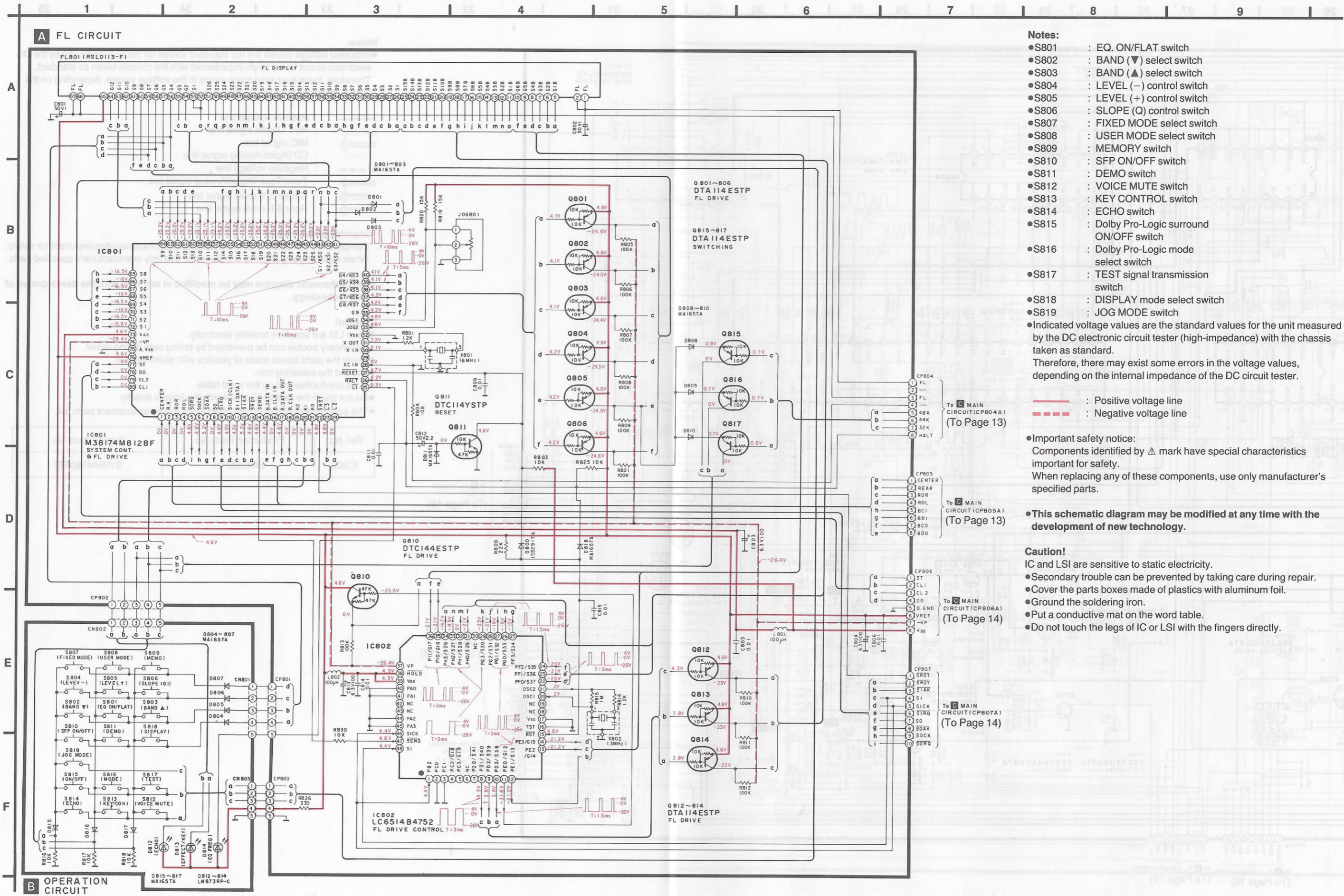
Ref. No.	Production Parts No.	Supply Parts No.
IC602	BA4560FT1	SVIBA4560FT1

To FL CIRCUIT (CPB07)
(To Page 16)

To FL CIRCUIT (CPB06)
(To Page 16)

To SU-CH900/
RS-CH900
(To JK1/
JK201)

SCHEMATIC DIAGRAM (FL/Operation circuit) (Parts list on pages 25~29)



- Notes:**
- S801 : EQ. ON/FLAT switch
 - S802 : BAND (▼) select switch
 - S803 : BAND (▲) select switch
 - S804 : LEVEL (-) control switch
 - S805 : LEVEL (+) control switch
 - S806 : SLOPE (Q) control switch
 - S807 : FIXED MODE select switch
 - S808 : USER MODE select switch
 - S809 : MEMORY switch
 - S810 : SFP ON/OFF switch
 - S811 : DEMO switch
 - S812 : VOICE MUTE switch
 - S813 : KEY CONTROL switch
 - S814 : ECHO switch
 - S815 : Dolby Pro-Logic surround ON/OFF switch
 - S816 : Dolby Pro-Logic mode select switch
 - S817 : TEST signal transmission switch
 - S818 : DISPLAY mode select switch
 - S819 : JOG MODE switch
- 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.

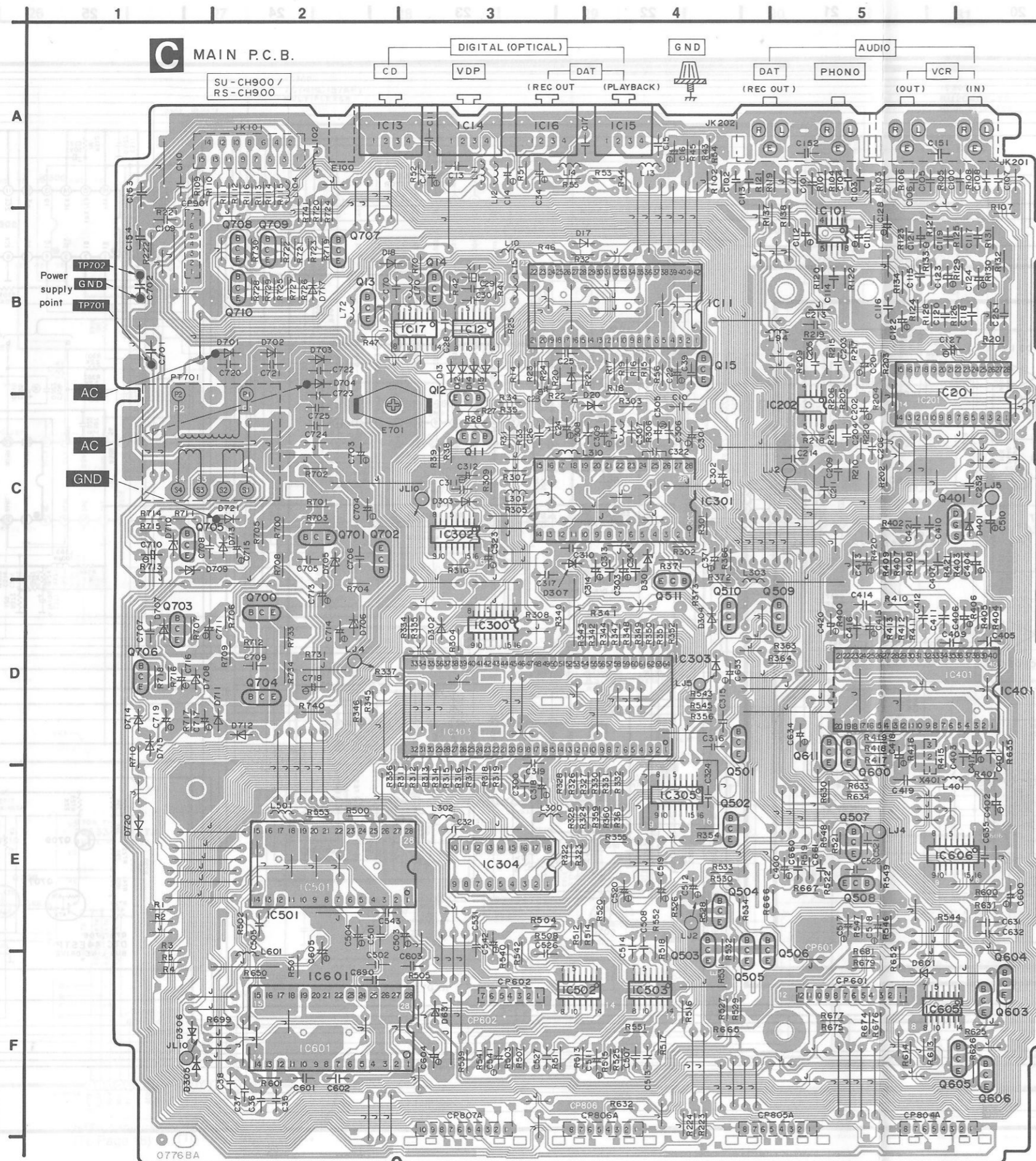
— : Positive voltage line
 - - - : Negative voltage line

●Important safety notice:
 Components identified by Δ mark have special characteristics important for safety.
 When replacing any of these components, use only manufacturer's specified parts.


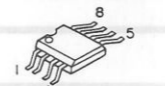
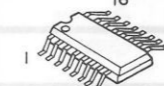



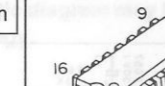
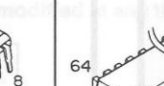
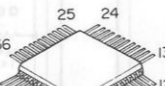

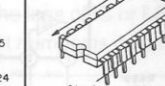


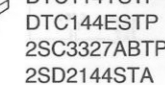
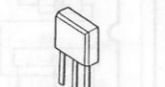
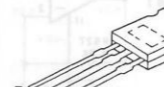

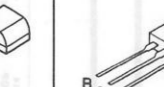


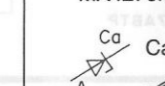
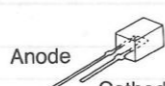
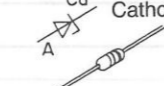

●This schematic diagram may be modified at any time with the development of new technology.

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.

PRINTED CIRCUIT BOARD (Main P.C.B.) (Parts list on pages 25~29)



Terminal guide of IC's, transistors and diodes

		AN6554NSFE2	14 Pin	MC14066BFR2	14 Pin
		MC74HCU04FEL	14 Pin	BU2040F-T2	16 Pin
		MC74HC126AFR	14 Pin	MC14052BFR2	16 Pin
BA4558FDXT1 BA4560FT1 AN6558SFE2		TC74HC123AFT		CS5339-KP LC7883K	
				TC9164N	
		KM41C464P-10	18 Pin	TC74HC157AFT	
		LC8900K	42 Pin	LC83012N	
LC6514B4752		M38174M8128F			TA7629P 16 Pin TC9164N 28 Pin M50194P 40 Pin
PLT102L TORX174-A		DTA114ESTP DTC114ESTP DTC114YSTP DTC144ESTP 2SC3327ABTP 2SD2144STA		KSB564ACYGTA KSD471ACYGTA	
2SA1309AQSTA 2SD1450RSTA 2SC3311AQSTA		2SB1357DEFTA 2SD2037DEFTA		2SJ40BCTA	
				2SD1762EF	
	MA165TA MA167TA MA700ATA 1SR35200TB		MA4100MTA MA4270MTA		1SS291TA
	LN873RP-C		MA4043MTA MA4051MTA MA4056HTA MA4062MTA MA4030MTA MA4091MTA		

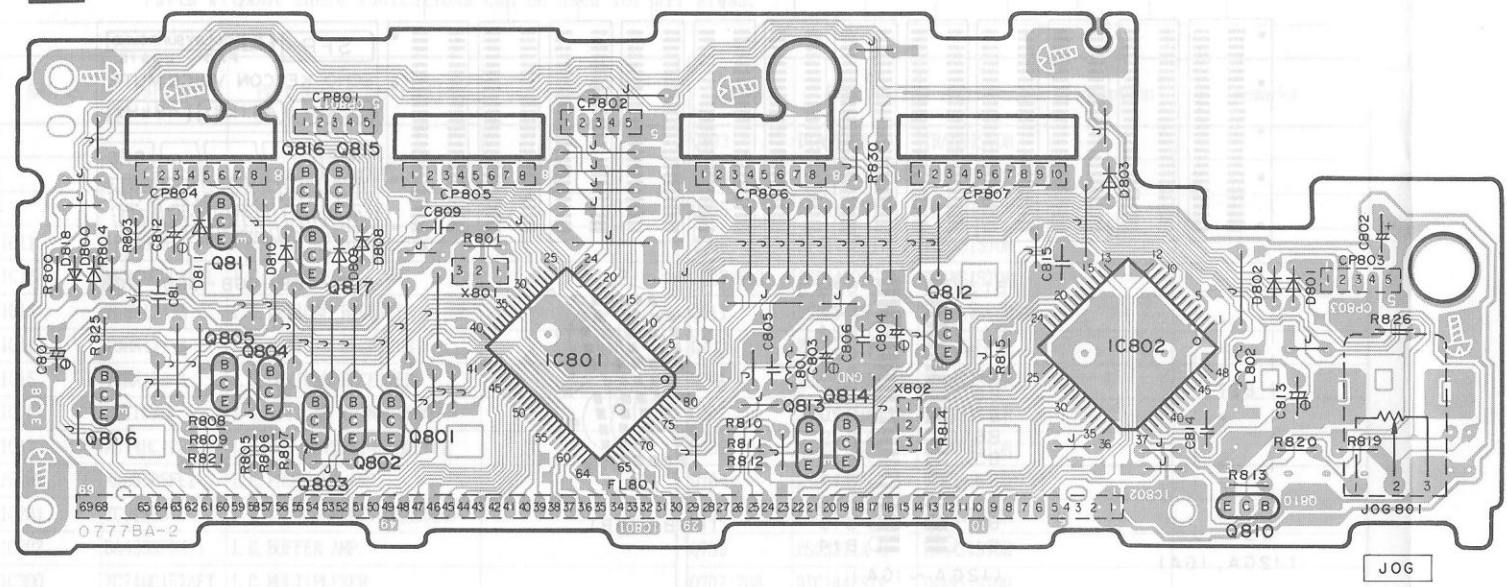
PRINTED CIRCUIT BOARDS (FL/Operation/Input-Output/Dolby P.C.B.)

(Parts list on pages 25~29)

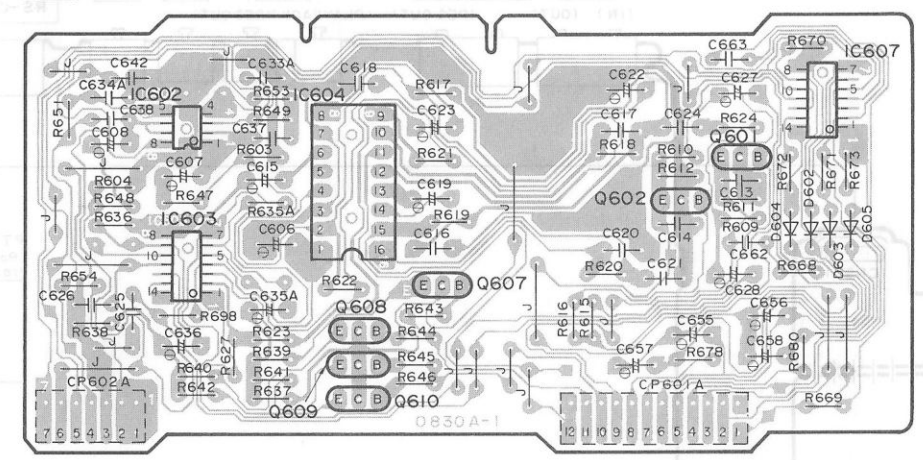
WIRING CONNECTION DIAGRAM



A FL P.C.B.

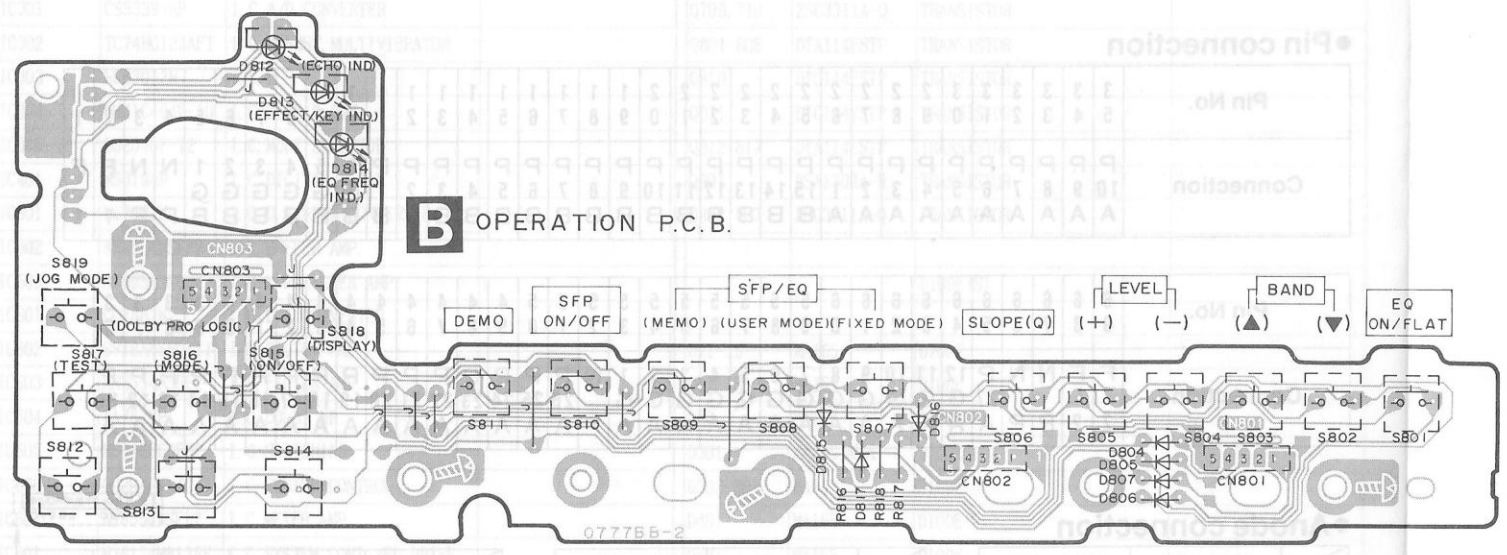


E DOLBY P.C.B.



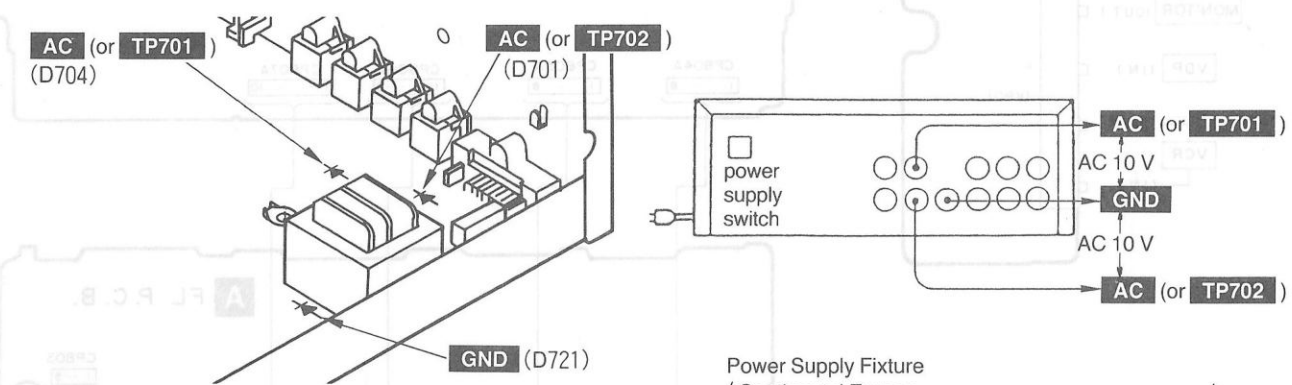
•This circuit board diagram may be modified at any time with the development of new technology.

B OPERATION P.C.B.



■ This Sound Processor (SH-CH900) powered by amplifier (SU-CH900). To adjust or check operations on the sound processor a separate unit, follow the below.

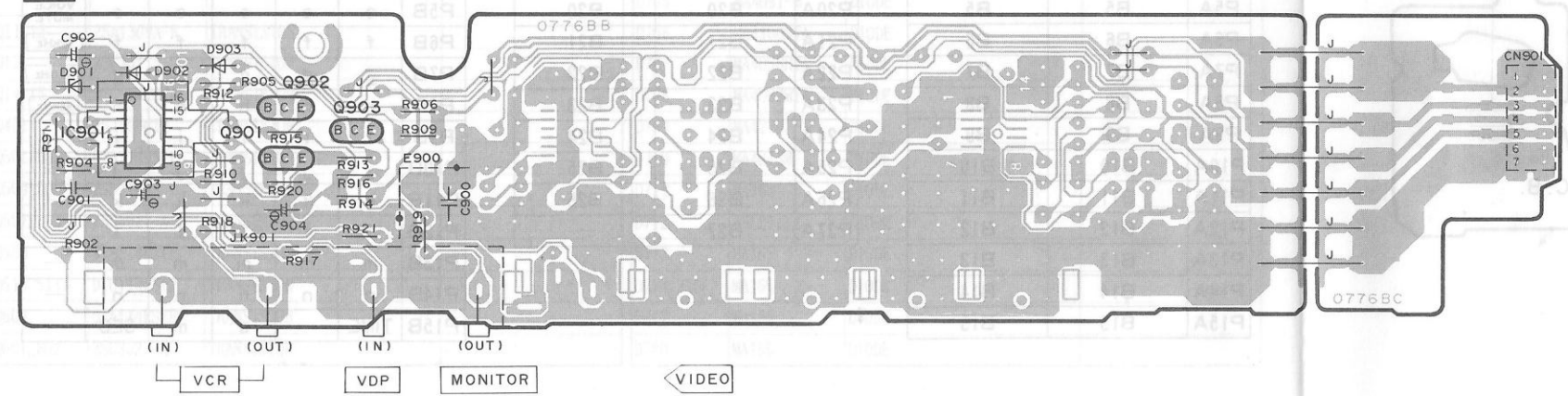
- Apply a power supply voltage of AC 10 V connect to **AC** (or **TP701**), **AC** (or **TP702**) and **GND**. (Refer to page 17.)



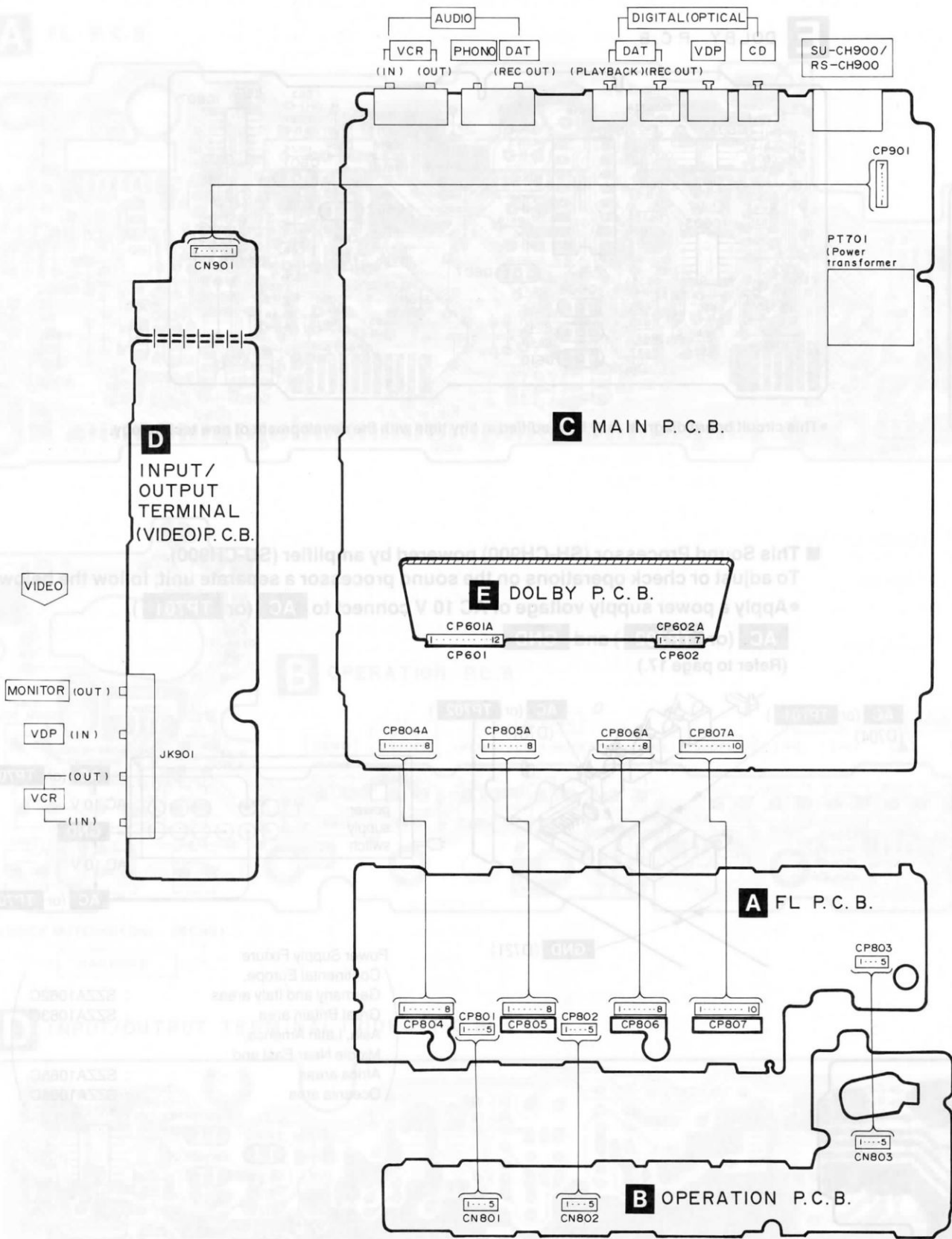
Power Supply Fixture

Continental Europe,	: SZZA1062C
Germany and Italy areas	: SZZA1063C
Great Britain area	: SZZA1065C
Asia, Latin America,	: SZZA1066C
Middle Near East and	: SZZA1064C
Africa areas	
Oceania area	

D INPUT/OUTPUT TERMINAL (VIDEO) P.C.B.

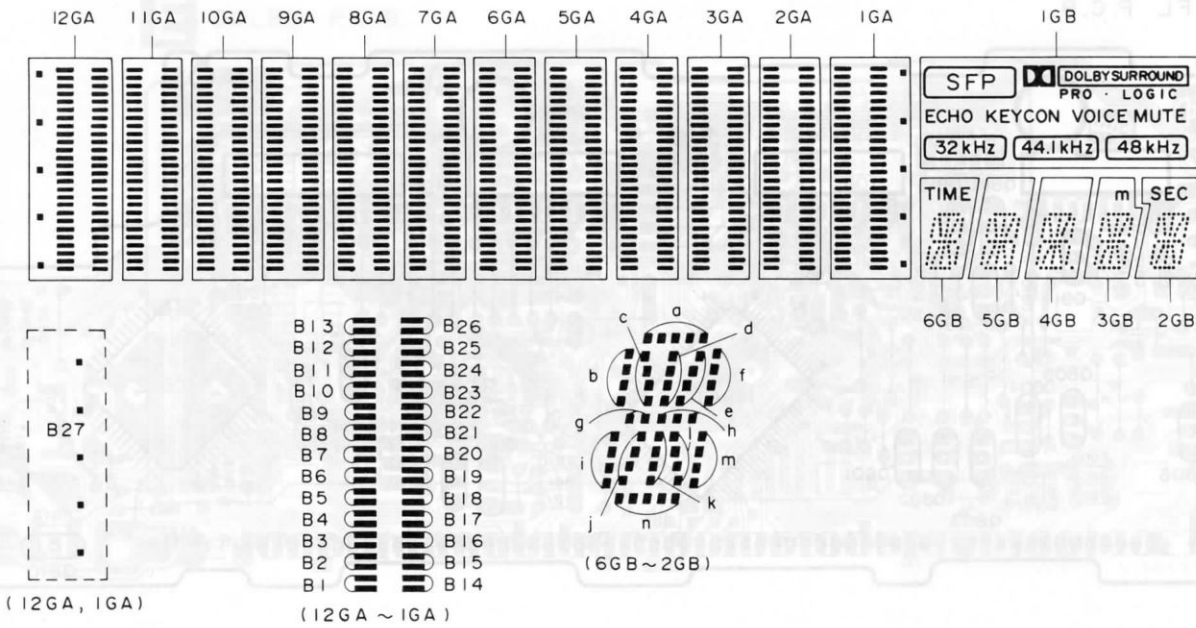


WIRING CONNECTION DIAGRAM



DESCRIPTION OF FL PANEL [FL801 (RSL0113-F)]

Grid assignment



Pin connection

Pin No.	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	9	8	7	6	5	4	3	2	1
Connection	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	6	5	4	3	2	1	N	N	F	F
	10	9	8	7	6	5	4	3	2	1	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	G	G	G	G	G	G	
	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

Pin No.	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	3	3	3	3		
Connection	F	F	N	N	P	12	11	10	9	8	7	6	5	4	3	2	1	N	P	P	P	P	P	P	P	P	P	P	P	P	P			
	2	2	P	P	A	27	G	G	G	G	G	G	G	G	G	G	G	A	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	

Anode connection

	12GA, 1GA	11GA~2GA
P1A	B1	B1
P2A	B2	B2
P3A	B3	B3
P4A	B4	B4
P5A	B5	B5
P6A	B6	B6
P7A	B7	B7
P8A	B8	B8
P9A	B9	B9
P10A	B10	B10
P11A	B11	B11
P12A	B12	B12
P13A	B13	B13
P14A	B14	B14
P15A	B15	B15

	12GA, 1GA	11GA~2GA
P16A	B16	B16
P17A	B17	B17
P18A	B18	B18
P19A	B19	B19
P20A	B20	B20
P21A	B21	B21
P22A	B22	B22
P23A	B23	B23
P24A	B24	B24
P25A	B25	B25
P26A	B26	B26
P27A	B27	—

	6GB	5GB	4GB	3GB	2GB	1GB
P1B	a	a	a	a	a	●
P2B	b	b	b	b	b	SFP
P3B	c	c	c	c	c	ECHO
P4B	d	d	d	d	d	KEYCON
P5B	e	e	e	e	e	VOICE MUTE
P6B	f	f	f	f	f	32kHz
P7B	g	g	g	g	g	44.1kHz
P8B	h	h	h	h	h	48kHz
P9B	i	i	i	i	i	—
P10B	j	j	j	j	j	—
P11B	k	k	k	k	k	—
P12B	l	l	l	l	l	—
P13B	m	m	m	m	m	—
P14B	n	n	n	n	n	—
P15B	TIME	—	o	m	SEC	—

FUNCTION OF IC TERMINALS

IC11 (LC8900K)

Pin No.	Terminal Name	I/O	Function
1	DIN1	I	Data input terminal (CD signal)
2	DIN2	I	Data input terminal (BS signal)
3	DIN3	I	Not used (connect to GND)
4	DIN4	I	Data input terminal (DAT signal)
5	DGND	—	Digital GND
6	DOUT	O	Data (DIN1~4) process signal output terminal
7	RC1	I	OSC (RC) input terminal
8	RC2	O	OSC (RC) output terminal
9	SEL1	I	Input signal select terminal
10	SEL2	I	Input signal select terminal
11	LPF	I	Output data signal format select terminal Fix mode = "H"
12	STOP	I	VCO Stop signal input "H"...stop
13	OUTMODE	I	Output data signal format select terminal (The terminal is "LOW") "H" = 20 bit LSB Fast "L" = 16 bit MSB Fast
14	TEST2	—	Connected to GND
15	XMODE	I	PLL Starting signal input terminal
16	AV _{DD}	I	Power supply
17	R	I	VCO Oscillator band adjustment
18	AGND	—	Analog GND
19	VIN	I	VCO Establish osc terminal
20	VCO	O	LPF output signal terminal
21	DGND	—	Digital GND
22	TEST1	I	Not used
23	V	O	Not used
24	256FS	O	256Fs clock output signal
25	384FS	O	384Fs clock output signal
26	DV _{DD}	—	Power supply (digital)
27	BCLK	O	Bit-clock output signal
28	DATAOUT	O	AUDIO data output signal
29	LRCK	O	L • R Clock output signal
30	EMPHA	O	Emphasis control signal output
31	LOCK	O	PLL Lock control signal output
32	ERROR	O	Error control signal output
33	COPY	O	Data (copy) signal output
34	BSA	O	BS control signal output (sampling frequency 32 kHz: "H")
35	CD	O	CD control signal output (sampling frequency 44.1 kHz: "H")
36	BSB	O	BS control signal output (sampling frequency 48 kHz: "H")
37, 38	D0, D1	—	Not used
39	CE	—	Connected to GND
40	CL	—	Connected to GND
41	MODE	—	Connected to GND
42	DVDD	—	Power supply

IC303 (LC83012N)

Pin No.	Terminal Name	I/O	Function
1, 4, 6	P0, P3, P5	I/O	Not used (connect to GND)
2, 3, 5	P1, P2, P4	I	Mode signal input terminal
7	AOTDF1	O	Audio data output terminal
8	AOTDF2	O	Not used
9	DFBCK	O	Bit clock signal output terminal
10	DFWCK	O	Word clock signal output terminal
11	RAS	O	Random access signal output terminal
12	CAS	O	CAS signal output terminal
13	DREAD	O	Data read signal output terminal
14	DWRT	O	Data writing signal output terminal
15	V _{DD1}	I	Power supply (+5 V)
16	OSC1	I	Clock signal input terminal (384Fs)
17	OSC2	O	Not used
18	V _{SS1}	I	GND terminal
19	384FS	O	Not used
20~23	D0~D3	I/O	IC304 (DRAM) Data signal input/output terminal
24~27	D4~D7	I/O	Not used
28~35	A0~A7	O	IC304 (DRAM) Address data signal output terminal
36	A8	O	Not used
37	BCK1	I	Bit clock signal output terminal
38	BCK2	I	Bit clock signal output terminal
39	AS11	I	Audio data signal input terminal
40	AS12	I	Not used
41	LRCK0	O	L-R ch Identifier signal output terminal
42	LRCK1	I	L-R ch Identifier signal input terminal
43, 44	SEL TEST5	—	Not used
45	V _{DD2}	I	Power supply (+5 V)
46	RST	I	Reset terminal
47	INT	I	Interrupt signal input terminal
48	V _{SS2}	I	GND terminal
49~52	TEST1~TEST4	I	Not used
53~55	AOBCK, ASO, ACHOR	—	Not used
56	SO	O	8 bit serial data output terminal
57	SOCK	I	Serial clock signal input terminal
58	SORQ	I	Serial data control signal input terminal (request signal input)
59	SOAK	O	Pretice (serial data output) control signal output terminal
60	SI	I	8 bit serial data input terminal
61	SICK	I	Serial clock signal input terminal
62	SIRQ	I	Serial data request signal input
63	SIK	O	Pretice (serial data input) control signal output terminal
64	SRDY	I	Ready signal input terminal

IC501 (LC7883K)

Pin No.	Terminal Name	I/O	Function
1	CH1OUT	O	DAC signal output (L-ch out)
2	VREFH	I	Reference voltage input
3	AV _{DD}	I	Analog power supply
4	DV _{DD}	I	Digital power supply
5	BCLK	I	Bit-clock signal input
6	DATA	I	Digital audio tape signal input
7	LRCK	I	L-R Clock signal input
8	TEST	I	Connected to GND
9	ATT	I	Connected to GND
10	SHIFT	I	Connected to GND
11	LATCH	I	Connected to GND
12	INITB	I	Initial signal input
13	TEST	I	Connected to GND
14, 15	EMPH2, EMPH1	I	Deemphasis institute signal input
16	D/N	—	Connected to GND
17	SOC2	—	Connected to GND
18	SOC1	—	Connected to GND
19	MODE	I	Mode select signal input
20	TEST	—	Connected to GND
21	DGND	—	Connected to GND
23	CLK OUT	—	Not used
24, 25	XIN, XOUT	I, O	Clock signal input/output terminal
26, 27	AGND, VREFL	—	Connected to GND
28	CH2OUT	O	DAC signal output (R-ch out)

■ IC801 (M38174M8128F)

Pin No.	Terminal Name	I/O	Function
1	CENTER	I	Center control signal input
2	R.R	I	Rear control signal input
3	ROR	I	Record signal control input (R ch)
4	ROL	I	Record signal control input (L ch)
5~9	SORQ, SOCK, SOAK, SO, SIRQ	I/O	Display control signal input-output terminal
10~13	SICK (CLK), SI (DATA), SIK, SRDY	I/O	Display control signal, data signal and clock signal input-output terminal
14	SEND	O	Display control signal output
15	B. DATA IN	I	Data bass signal input terminal
16	B. CLK IN	I	Clock bass signal input terminal
17	B. DATA OUT	O	Data bass signal output terminal
18	B. CLK OUT	O	Clock bass signal output terminal
19~21	K2~K0	I	Key scan signal input terminal
22	SRST	O	System reset signal output
23~25	L3, L2, L1	O	JOG mode display control signal output
26	HALT	I	Backup detctro signal input
27	RESET	I	Reset signal input terminal
28	XC IN	I	Pull-up voltage input terminal
29	—	—	Not used
30, 31	X IN X OUT	I O	Crystal oscillator (X801 4 MHz) connect terminal
32	Vss	I	GND terminal
33, 34	JOG2 JOG1	I	JOG Encoder signal input terminal
35	G9	O	FL Grid control signal output
36~43	G8/KS7~ G1/KS0	O	FL Grid control signal and key scan control signal output
44~56	S26~S14	O	FL Segment control signal output
57~59	G12~G10	O	FL Grid control signal output
60~72	S13~S1	O	FL Segment control signal output
73	Vcc	I	Power supply (+5 V)
74	-VP	I	FL Pull-up voltage input
75	A. Vss	I	GND terminal
76	VREF	I	A/D Converter reference voltage input terminal
77	ST	O	Strobe signal output terminal
78	DO	O	Data signal output terminal
79, 80	CL2 CL1	O	Clock signal output terminal

■ IC802 (LC6514B4752)

Pin No.	Terminal Name	I/O	Function
1, 46	PB2, SICK	I	Clock signal input terminal
2, 3	PC0, PC1	I/O	Connected to GND
4, 5	PC2/G18 PC3/G19	—	Not used
6, 7	NC PD0/S14	I/O	Not used
8~10	PD1/S40~ PD3/S38	O	FL Segment control signal output terminal
11	PE0/G12	O	FL Grid control signal output terminal
12~14	PE1/G13~ PE3/G15	O	FL Grid control signal output terminal
15	RST	I	Reset terminal
16	TST	I	Not used
17	Vss	I	GND terminal
18, 19	NC	—	Not used
20, 21	OSC1 OSC2	I O	Crystal oscillator (X802 3 MHz) connect terminal
22~25	PF0/S37~ PF3/S34	O	FL Segment control signal output terminal
26~29	PG0/S33~ PG3/S30	O	FL Grid control signal output terminal
30	NC	—	Not used
31~34	PH0/S29~ PH3/S26	O	FL Segment control signal output terminal
35, 36	P10/G16 P11/G17	O	FL Grid control signal output terminal
37	VP	I	FL Pull-down voltage input
38	HOLD	I	Connect V _{DD}
39	V _{DD}	I	Power supply (+5 V)
40, 41	PA0 PA1	—	Connected to GND
42, 43	NC	—	Not used
44, 45	PA2 PA3	—	Connected to GND
47	SEND	I	Display control signal input
48	SI	I	Serial data input terminal

REPLACEMENT PARTS LIST

Notes : * Important safety notice:

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT (S)		Q603	DTA114ESTP	TRANSISTOR	
				Q604	DTC114ESTP	TRANSISTOR	
				Q605	DTA114ESTP	TRANSISTOR	
IC11	LC8900K	I. C, DIGITAL SIGNAL PRO.		Q606	DTC114ESTP	TRANSISTOR	
IC12	MC74HC04FEL	I. C, INVERTER		Q607-610	2SD1450RSTA	TRANSISTOR	
IC13	TORX174-A	I. C, OPTICAL RECEIVER		Q611	2SD2144S	TRANSISTOR	
IC14	TORX174-A	I. C, OPTICAL RECEIVER		Q700	2SD1762EF	TRANSISTOR	
IC15	TORX174-A	I. C, OPTICAL RECEIVER		Q701	2SD2037DEFTA	TRANSISTOR	
IC16	PLT102L	I. C, OPTICAL TRANSMISSION		Q702	2SB1357DEFTA	TRANSISTOR	
IC17	MC74HC126AFR	I. C, NON-INVERTING BUFFER		Q703	KSD471ACYGTA	TRANSISTOR	
IC101	AN6558SFE2	I. C, PHONO EQ. AMP.		Q704	2SD1762EF	TRANSISTOR	
IC201	TC9164N	I. C, INPUT SELECTOR (AUDIO)		Q705	KSB564ACYGTA	TRANSISTOR	
IC202	BA4558FDXT1	I. C, BUFFER AMP.		Q706	2SC3311A-Q	TRANSISTOR	
IC300	TC74HC157AFT	I. C, MULTIPLEXER		Q707, 708	DTC144ESTP	TRANSISTOR	
IC301	CS5339-KP	I. C, A/D CONVERTER		Q709, 710	2SC3311A-Q	TRANSISTOR	
IC302	TC74HC123AFT	I. C, MONOST. MULTIVIBRATOR		Q801-806	DTA114ESTP	TRANSISTOR	
IC303	LC83012N	I. C, D. S. P.		Q810	DTC144ESTP	TRANSISTOR	
IC304	KM41C464P-10	I. C, 256K D-RAM		Q811	DTC114YSTP	TRANSISTOR	
IC305	BU2040F-T2	I. C, MODE SELECTOR		Q812-817	DTA114ESTP	TRANSISTOR	
IC401	M50194P	I. C, DIGITAL DERAY		Q901	2SA1309A-R	TRANSISTOR	
IC501	LC7883K	I. C, D. F. &D/A CONVERTER		Q902, 903	2SC3311A-Q	TRANSISTOR	
IC502	AN6554NSFE2	I. C, BUFFER AMP.					
IC503	AN6554NSFE2	I. C, L. P. FILTER AMP.				DIODE (S)	
IC601	LC7883K	I. C, D/A CONVERTER					
IC602	SV1BA4560FT1	I. C, FILTER AMP.		D11-15	MA165	DIODE	
IC603	AN6554NSFE2	I. C, FILTER AMP.		D17, 18	MA165	DIODE	
IC604	TA7629P	I. C, DOLBY NR		D20	MA165	DIODE	
IC605	MC14066BFR2	I. C, SWITCHING		D301	MA4051MTA	DIODE	
IC606	BU2040F-T2	I. C, SYSTEM CONTROL		D302-307	MA165	DIODE	
IC607	AN6554NSFE2	I. C, METER AMP.		D401	MA165	DIODE	
IC801	M38174M8128F	I. C, SYSTEM CONT. /FL DRIVE		D601	MA165	DIODE	
IC802	LC6514B4752	I. C, FL DRIVE CONTROL		D602-605	MA700	DIODE	
IC901	MC14052BFR2	I. C, ANALOG MULTIPLEXER		D630	MA700	DIODE	
		TRANSISTOR (S)		D631	MA4030MTA	DIODE	
				D701-704	1SR35200TB	DIODE	Δ
				D705	MA4091-M	DIODE	
Q11, 12	2SA1309A-R	TRANSISTOR		D706	MA4100MTA	DIODE	
Q13	2SC3311A-Q	TRANSISTOR		D707	MA4056HTA	DIODE	
Q14, 15	DTC114ESTP	TRANSISTOR		D708	MA4062MTA	DIODE	
Q401	2SJ40BCTA	TRANSISTOR		D709	MA4270	DIODE	
Q501, 502	DTA114ESTP	TRANSISTOR		D710	MA4043M	DIODE	
Q503-506	2SD2144S	TRANSISTOR		D711	MA165	DIODE	
Q507, 508	2SC3327-A	TRANSISTOR		D712	1SS291TA	DIODE	
Q509	DTA114ESTP	TRANSISTOR		D713	MA167	DIODE	
Q510, 511	DTC114ESTP	TRANSISTOR		D714, 715	MA165	DIODE	
Q600	DTA114ESTP	TRANSISTOR		D717	MA165	DIODE	
Q601, 602	2SC3327-A	TRANSISTOR		D720	MA165	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
D721	1SR35200TB	DIODE		S814	EVQ21405R	SW, ECHO	
D800	1SS291TA	DIODE		S815	EVQ21405R	SW, DOLBY PRO. LOGIC (ON/OFF)	
D801-811	MA165	DIODE		S816	EVQ21405R	SW, CENTER MODE	
D812-814	LN873RP-C	DIODE		S817	EVQ21405R	SW, TEST	
D815-818	MA165	DIODE		S818	EVQ21405R	SW, DISPLAY	
D901	MA4051MTA	DIODE		S819	EVQ21405R	SW, JOG MODE	
D902, 903	MA165	DIODE				CONNECTOR (S)	
		COIL (S)					
L10	RLQZP1R2KT-Y	COIL		CN801	SJS50581BB	SOCKET (5P)	
L11-14	RLQZP1R0KT-Y	COIL		CN802	SJS50581BB	SOCKET (5P)	
L15	RLQZP1R2KT-Y	COIL		CN803	SJS50581BB	SOCKET (5P)	
L70-72	RLQZP1R2KT-Y	COIL		CN901	RJU057W007	SOCKET (7P)	
L94	ELESNR47MA	COIL		CP601	RJT057W012-1	CONNECTOR (12P)	
L102	RLQZP101KT-Y	COIL		CP601A	RJU057W012	SOCKET (12P)	
L104	RLQZP101KT-Y	COIL		CP602	RJT057W007-1	CONNECTOR (7P)	
L300	ELESN101KA	COIL		CP602A	RJU057W007	SOCKET (7P)	
L301	RLQZP1R0KT-Y	COIL		CP801	SJT30549BB1	CONNECTOR (5P)	
L302, 303	RLQZP101KT-Y	COIL		CP802	SJT30549BB1	CONNECTOR (5P)	
L310	RLQZP100KT-Y	COIL		CP803	SJT30549BB1	CONNECTOR (5P)	
L401	RLQZP1R0KT-Y	COIL		CP804	RJT003K008M1	CONNECTOR (8P)	
L501	RLQZP101KT-Y	COIL		CP804A	RJU003K008M1	SOCKET (8P)	
L601	RLQZP101KT-Y	COIL		CP805	RJT003K008M1	CONNECTOR (8P)	
L801, 802	ELEXT101KA9	COIL		CP805A	RJU003K008M1	SOCKET (8P)	
		OSCILLATOR (S)		CP806	RJT003K008M1	CONNECTOR (8P)	
				CP806A	RJU003K008M1	SOCKET (8P)	
X11	RSXZ16M9M01T	CRYSTAL OSCILLATOR		CP807	RJT003K010M1	CONNECTOR (10P)	
X401	EF0GC4004A4	CERAMIC OSCILLATOR		CP807A	RJU003K010M1	SOCKET (10P)	
X801	EF0GC6004T4	CERAMIC OSCILLATOR		CP901	RJT057W007-1	CONNECTOR (7P)	
X802	EF0GC3004T4	CERAMIC OSCILLATOR				EARTH TERMINAL (S)	
		DISPLAY					
FL801	RSL0113-F	FL DISPLAY		E100	RMC0073	SHIELD PLATE	
		SWITCH (ES)		E701	SNE1004-1	GND PLATE	
				E900	RJR0008-1	EARTH TERMINAL	
						VARIABLE RESISTOR (S)	
S801	EVQ21405R	SW, EQ. ON/FLAT		JOG801	EVQWPA02224B	V. R, JOG VOLUME	
S802	EVQ21405R	SW, BAND (DOWN)				TRANSFORMER (S)	
S803	EVQ21405R	SW, BAND (UP)					
S804	EVQ21405R	SW, LEVEL (DOWN)		PT701	RTP114G002	POWER TRANSFORMER	△
S805	EVQ21405R	SW, LEVEL (UP)				JACK (S)	
S806	EVQ21405R	SW, SLOPE (Q)					
S807	EVQ21405R	SW, FIXED MODE					
S808	EVQ21405R	SW, USER MODE		JK101	RJT055K015-1	CONNECTOR (15P)	
S809	EVQ21405R	SW, MEMORY		JK201	SJF3069-5N	PHONO JACK (4P)	
S810	EVQ21405R	SW, SFP OFF/ON		JK202	SJF3069-5N	PHONO JACK (4P)	
S811	EVQ21405R	SW, DEMO		JK901	SJF3061N	PHONO (VIDEO) JACK (4P)	
S812	EVQ21405R	SW, VOICE MUTE					
S813	EVQ21405R	SW, KEY CON					

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

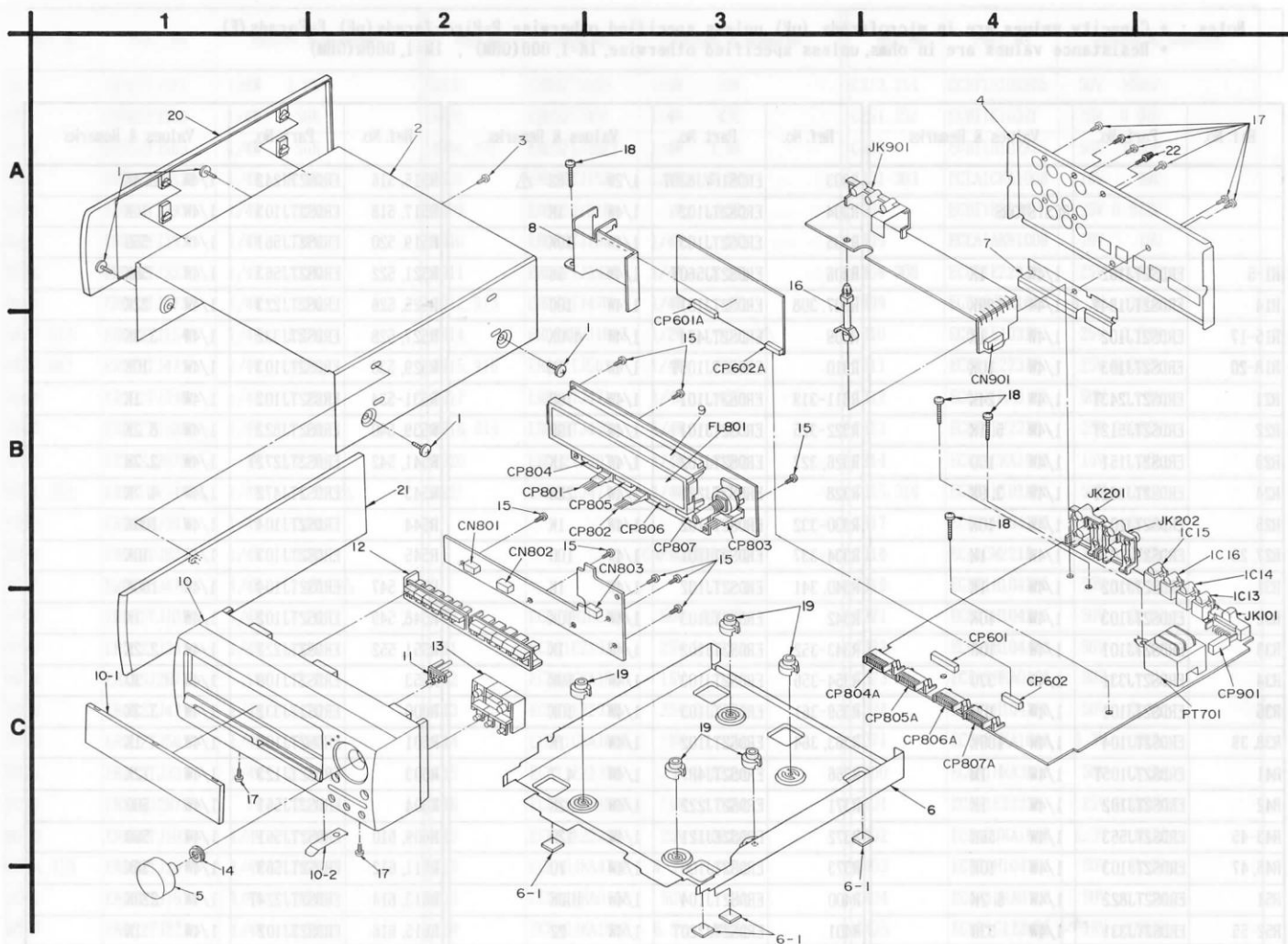
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R303	ERDS1FWJ820T	1/2W 82 Δ	R515, 516	ERDS2TJ242	1/4W 2.4K
			R304	ERDS2TJ102	1/4W 1K	R517, 518	ERDS2TJ103	1/4W 10K
			R305	ERDS2TJ103	1/4W 10K	R519, 520	ERDS2TJ561	1/4W 560
R1-5	ERDS2TJ102	1/4W 1K	R306	ERDS2TJ560T	1/4W 56	R521, 522	ERDS2TJ563	1/4W 56K
R14	ERDS2TJ184T	1/4W 180K	R307, 308	ERDS2TJ101	1/4W 100	R525, 526	ERDS2TJ223	1/4W 22K
R15-17	ERDS2TJ102	1/4W 1K	R309	ERDS2TJ474	1/4W 470K	R527, 528	ERDS2TJ332	1/4W 3.3K
R18-20	ERDS2TJ103	1/4W 10K	R310	ERDS2TJ105T	1/4W 1M	R529, 530	ERDS2TJ103	1/4W 10K
R21	ERDS2TJ243T	1/4W 24K	R311-319	ERDS2TJ101	1/4W 100	R531-534	ERDS2TJ102	1/4W 1K
R22	ERDS2TJ512T	1/4W 5.1K	R322-325	ERDS2TJ101	1/4W 100	R539, 540	ERDS2TJ822	1/4W 8.2K
R23	ERDS2TJ151	1/4W 150	R326, 327	ERDS2TJ102	1/4W 1K	R541, 542	ERDS2TJ272T	1/4W 2.7K
R24	ERDS2TJ392T	1/4W 3.9K	R328	ERDS2TJ221	1/4W 220	R543	ERDS2TJ472	1/4W 4.7K
R25	ERDS2TJ103	1/4W 10K	R330-332	ERDS2TJ102	1/4W 1K	R544	ERDS2TJ104	1/4W 100K
R27, 28	ERDS2TJ102	1/4W 1K	R334-337	ERDS2TJ101	1/4W 100	R545	ERDS2TJ103	1/4W 10K
R31	ERDS2TJ102	1/4W 1K	R340, 341	ERDS2TJ102	1/4W 1K	R546, 547	ERDS2TJ104	1/4W 100K
R32	ERDS2TJ103	1/4W 10K	R342	ERDS2TJ103	1/4W 10K	R548, 549	ERDS2TJ102	1/4W 1K
R33	ERDS2TJ101	1/4W 100	R343-352	ERDS2TJ102	1/4W 1K	R551, 552	ERDS2TJ222	1/4W 2.2K
R34	ERDS2TJ331	1/4W 330	R354-356	ERDS2TJ103	1/4W 10K	R553	ERDS2TJ100	1/4W 10
R35	ERDS2TJ101	1/4W 100	R359-361	ERDS2TJ103	1/4W 10K	R600	ERDS2TJ332	1/4W 3.3K
R38, 39	ERDS2TJ104	1/4W 100K	R363, 364	ERDS2TJ102	1/4W 1K	R601	ERDS2TJ102	1/4W 1K
R41	ERDS2TJ105T	1/4W 1M	R366	ERDS2TJ4R7T	1/4W 4.7	R603	ERDS2TJ123	1/4W 12K
R42	ERDS2TJ102	1/4W 1K	R371	ERDS2TJ222	1/4W 2.2K	R604	ERDS2TJ561	1/4W 560
R43-45	ERDS2TJ563	1/4W 56K	R372	ERDS2EJ121	1/4W 120	R609, 610	ERDS2TJ561	1/4W 560
R46, 47	ERDS2TJ103	1/4W 10K	R373	ERDS2TJ100	1/4W 10	R611, 612	ERDS2TJ563	1/4W 56K
R51	ERDS2TJ822	1/4W 8.2K	R400	ERDS2TJ104	1/4W 100K	R613, 614	ERDS2TJ224T	1/4W 220K
R52-55	ERDS2TJ331	1/4W 330	R401	ERDS2TJ220T	1/4W 22	R615, 616	ERDS2TJ102	1/4W 1K
R56	ERDS2TJ333	1/4W 33K	R402	ERDS2TJ102	1/4W 1K	R617	ERDS2TJ332	1/4W 3.3K
R70	ERDS2TJ151	1/4W 150	R403	ERDS2TJ822	1/4W 8.2K	R618	ERDS2TJ473	1/4W 47K
R101-106	ERDS2TJ102	1/4W 1K	R404	ERDS2TJ123	1/4W 12K	R619	ERDS2TJ154	1/4W 150K
R107, 108	ERDS2TJ682T	1/4W 6.8K	R405	ERDS2TJ822	1/4W 8.2K	R620	ERDS2TJ274	1/4W 270K
R109-116	ERDS2TJ102	1/4W 1K	R406	ERDS2TJ183T	1/4W 18K	R621	ERDS2TJ683	1/4W 68K
R119, 120	ERDS2TJ563	1/4W 56K	R407, 408	ERDS2TJ822	1/4W 8.2K	R622	ERDS2TJ153	1/4W 15K
R121, 122	ERDS2TJ184T	1/4W 180K	R409	ERDS2TJ123	1/4W 12K	R623	ERDS2TJ123	1/4W 12K
R123, 124	ERDS2TJ271	1/4W 270	R410	ERDS2TJ752T	1/4W 7.5K	R624	ERDS2TJ181T	1/4W 180
R125, 126	ERDS2TJ184T	1/4W 180K	R411	ERDS2TJ753T	1/4W 75K	R625, 626	ERDS2TJ103	1/4W 10K
R127, 128	ERDS2TJ123	1/4W 12K	R412	ERDS2TJ752T	1/4W 7.5K	R627	ERDS2TJ682T	1/4W 6.8K
R129, 130	ERDS2TJ102	1/4W 1K	R413	ERDS2TJ753T	1/4W 75K	R630	ERDS2TJ682T	1/4W 6.8K
R131, 132	ERDS2TJ224T	1/4W 220K	R415	ERDS2TJ122	1/4W 1.2K	R631, 632	ERDS2TJ102	1/4W 1K
R133, 134	ERDS2TJ680T	1/4W 68	R416	ERDS2TJ105T	1/4W 1M	R633, 634	ERDS2TJ683	1/4W 68K
R137, 138	ERDS2TJ101	1/4W 100	R417-419	ERDS2TJ103	1/4W 10K	R635	ERDS2TJ222	1/4W 2.2K
R201, 202	ERDS2TJ102	1/4W 1K	R420	ERDS2TJ271	1/4W 270	R635A	ERDS2TJ223	1/4W 22K
R203, 204	ERDS2TJ224T	1/4W 220K	R421	ERDS2TJ273	1/4W 27K	R636-638	ERDS2TJ223	1/4W 22K
R205, 206	ERDS2TJ562	1/4W 5.6K	R500	ERDS2TJ105T	1/4W 1M	R639, 640	ERDS2TJ103	1/4W 10K
R209, 210	ERDS2TJ562	1/4W 5.6K	R501	ERDS2TJ103	1/4W 10K	R641, 642	ERDS2TJ332	1/4W 3.3K
R215, 216	ERDS2TJ223	1/4W 22K	R502	ERDS2TJ102	1/4W 1K	R643-646	ERDS2TJ102	1/4W 1K
R217, 218	ERDS2TJ101	1/4W 100	R503, 504	ERDS2TJ152	1/4W 1.5K	R647	ERDS2TJ332	1/4W 3.3K
R219, 220	ERDS2TJ682T	1/4W 6.8K	R505	ERDS2TJ181T	1/4W 180	R648	ERDS2TJ392T	1/4W 3.9K
R221, 222	ERDS2TJ104	1/4W 100K	R507, 508	ERDS2TJ123	1/4W 12K	R649	ERDS2TJ563	1/4W 56K
R223, 224	ERDS2TJ223	1/4W 22K	R511, 512	ERDS2TJ223	1/4W 22K	R650	ERDS2TJ103	1/4W 10K
R301, 302	ERDS2TJ222	1/4W 2.2K	R513, 514	ERDS2TJ512T	1/4W 5.1K	R651	ERDS2TJ563	1/4W 56K

CABINET PARTS LOCATION

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R652	ERDS2TJ122	1/4W 1.2K	R830	ERDS2TJ103	1/4W 10K	C213, 214	ECBT1H102KB5	50V 1000P
R653	ERDS2TJ563	1/4W 56K	R902	ERDS2TJ471	1/4W 470	C251, 252	ECBT1E103ZF	25V 0.01U
R654	ERDS2TJ563	1/4W 56K	R904, 905	ERDS2TJ392T	1/4W 3.9K	C300	ECBT1H102KB5	50V 1000P
R665	ERDS2TJ682T	1/4W 6.8K	R906	ERDS2TJ152	1/4W 1.5K	C301-303	ECEA1CKA100B	16V 10U
R666	ERDS2TJ393	1/4W 39K	R909	ERG1SJ151E	1W 150	C304	ECBT1E223ZF	25V 0.022U
R667	ERDS2TJ393	1/4W 39K	R910	ERDS2TJ102	1/4W 1K	C305	ECEA1AKN100B	10V 10U
R668	ERDS2TJ333	1/4W 33K	R911	ERDS2TJ392T	1/4W 3.9K	C306-308	ECBT1E223ZF	25V 0.022U
R669	ERDS2TJ273	1/4W 27K	R912, 913	ERDS2TJ470	1/4W 47	C309	ECEA0JKA101B	6.3V 100U
R670-673	ERDS2TJ154	1/4W 150K	R914	ERDS1FVJ101T	1/2W 100 Δ	C310	ECBT1E103ZF	25V 0.01U
R674-681	ERDS2TJ473	1/4W 47K	R915, 916	ERDS2TJ561	1/4W 560	C311	ECBT1E223ZF	25V 0.022U
R698	ERDS2TJ390	1/4W 39	R917	ERDS2TJ471	1/4W 470	C312	ECEA1HKA010B	50V 1U
R699	ERDS2TJ100	1/4W 10	R918, 919	ERDS2TJ470	1/4W 47	C313	ECBT1E223ZF	25V 0.022U
R700	ERX1SJ2R7E	1W 2.7	R920	ERDS2TJ393	1/4W 39K	C314	ECEA1CKA100B	16V 10U
R701, 702	ERD2FCVJ4R7T	1/4W 4.7 Δ	R921	ERDS2TJ471	1/4W 470	C315, 316	ECBT1H101KB5	50V 100P
R703	ERDS2TJ391	1/4W 390				C317	ECBT1H104ZF5	50V 0.1U
R704	ERDS2TJ821	1/4W 820			CAPACITORS	C318	ECA1CM221B	16V 220U
R705	ERD25FJ470	1/4W 47 Δ				C319	ECBT1H104ZF5	50V 0.1U
R706	ERDS2TJ102	1/4W 1K	C10	ECBT1H102KB5	50V 1000P	C321	ECBT1H104ZF5	50V 0.1U
R707	ERDS2TJ331	1/4W 330	C11	ECBT1E223ZF	25V 0.022U	C322	ECQV1H104JZ3	50V 0.1U
R708	ERX1SJ2R7E	1W 2.7	C12	ECEA1CKA100B	16V 10U	C323	ECEA1HKA010B	50V 1U
R709	ERDS2TJ471	1/4W 470	C13	ECBT1E223ZF	25V 0.022U	C324	ECBT1H104ZF5	50V 0.1U
R710	ERDS2TJ561	1/4W 560	C14	ECEA1CKA100B	16V 10U	C371	ECEA0JKA101B	6.3V 100U
R711	ERDS2TJ332	1/4W 3.3K	C15	ECBT1E223ZF	25V 0.022U	C400	ECEA1HKA3R3B	50V 3.3U
R712	ERX1SJ2R7E	1W 2.7	C16	ECEA1CKA100B	16V 10U	C401	ECBT1E223ZF	25V 0.022U
R713	ERDS2TJ102	1/4W 1K	C17	ECBT1E223ZF	25V 0.022U	C402	ECEA0JKA101B	6.3V 100U
R714, 715	ERDS2TJ101	1/4W 100	C22	ECEA0JKA470B	6.3V 47U	C403	ECBT1H104ZF5	50V 0.1U
R716	ERDS2TJ153	1/4W 15K	C23	ECEA1HKA010B	50V 1U	C404	ECEA1HKA010B	50V 1U
R717	ERDS2TJ222	1/4W 2.2K	C24	ECEA0JKA101B	6.3V 100U	C405	ECBT1C122KR5	16V 1200P
R718	ERDS2TJ102	1/4W 1K	C25	ECBT1E223ZF	25V 0.022U	C406	ECEA1HKA010B	50V 1U
R719	ERDS2TJ393	1/4W 39K	C26	ECQB1H103JF3	50V 0.01U	C407	ECBT1C103KS5	16V 0.01U
R720	ERDS2TJ470	1/4W 47	C28	ECBT1H102KB5	50V 1000P	C409	ECBT1C122KR5	16V 1200P
R721, 722	ERDS2TJ393	1/4W 39K	C29, 30	ECBT1H300J5	50V 30P	C410	ECBT1C103KS5	16V 0.01U
R723	ERDS2TJ223	1/4W 22K	C34	ECEA1CKA100B	16V 10U	C411, 412	ECFR1E473KR	25V 0.047U
R724, 725	ERDS2TJ470	1/4W 47	C35-38	ECBT1E103ZF	25V 0.01U	C413	ECEA1HKA3R3B	50V 0.33U
R726-728	ERDS2TJ393	1/4W 39K	C39	ECBT1H102KB5	50V 1000P	C414	ECBT1E103ZF	25V 0.01U
R729	ERDS2TJ223	1/4W 22K	C70	ECBT1H101KB5	50V 100P	C415	ECEA1HKA3R3B	50V 0.33U
R730	ERDS2TJ470	1/4W 47	C100	ECBT1C103KS5	16V 0.01U	C416	ECBT1E103ZF	25V 0.01U
R731	ERDS2TJ101	1/4W 100	C101-110	ECBT1H101KB5	50V 100P	C417	ECEA0JKA470B	6.3V 47U
R733, 734	ERDS2TJR47T	1/4W 0.47	C111, 112	ECEA1HKA3R3B	50V 3.3U	C418	ECEA0JKA101B	6.3V 100U
R740	ERDS1FVJ2R2T	1/2W 2.2 Δ	C113, 114	ECBT1H331KB5	50V 330P	C419	ECBT1E223ZF	25V 0.022U
R741	ERDS2TJ101	1/4W 100	C115, 116	ECBT1H102KB5	50V 1000P	C420	ECEA1HKA010B	50V 1U
R800	ERDS2TJ223	1/4W 22K	C117, 118	ECFR1E223KR	25V 0.022U	C421	ECBT1E103ZF	25V 0.01U
R801	ERDS2TJ122	1/4W 1.2K	C119, 120	ECFR1H682KR	50V 6800P	C501	ECBT1H102KB5	50V 1000P
R803, 804	ERDS2TJ103	1/4W 10K	C121, 122	ECEA1AKA330B	10V 33U	C502	ECQV1H104JZ3	50V 0.1U
R805-813	ERDS2TJ104	1/4W 100K	C123, 124	ECEA1HKA3R3B	50V 3.3U	C503	ECEA0JU331B	6.3V 330U
R814	ERDS2TJ122	1/4W 1.2K	C127, 128	ECEA1CKA100B	16V 10U	C504	ECEA1CKA101B	16V 100U
R815	ERDS2TJ105T	1/4W 1M	C151, 152	ECBT1H102KB5	50V 1000P	C505	ECBT1E103ZF	25V 0.01U
R816-818	ERDS2TJ103	1/4W 10K	C153, 154	ECBT1E103ZF	25V 0.01U	C507, 508	ECBT1H331KB5	50V 330P
R819, 820	ERDS2TJ153	1/4W 15K	C201, 202	ECEA1CKA100B	16V 10U	C510	ECEA0JKA101B	6.3V 100U
R821	ERDS2TJ104	1/4W 100K	C203, 204	ECBT1H300J5	50V 30P	C511, 512	ECEA1CKA100B	16V 10U
R825	ERDS2TJ103	1/4W 10K	C205, 206	ECBT1H101KB5	50V 100P	C513, 514	ECBT1H680J5	50V 68P
R826	ERDS2TJ331	1/4W 330	C209, 211	ECBT1E103ZF	25V 0.01U	C517, 518	ECEA1HKA2R2B	50V 0.22U

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks				
C519, 520	ECEA1CKA100B	16V 10U	C719	ECA0JM102B	6. 3V 1000U				
C521, 522	ECBT1H102KB5	50V 1000P	C720-723	ECBT1E103ZF	25V 0. 01U				
C526	ECBT1E103ZF	25V 0. 01U	C724, 725	ECQV1H104JZ3	50V 0. 1U				
C527	ECBT1H104ZF5	50V 0. 1U	C801, 802	ECEA1HKA010B	50V 1U				
C531	ECBT1E103ZF	25V 0. 01U	C803, 804	ECEA0JKA101B	6. 3V 100U				
C541, 542	ECEA1CKA100B	16V 10U	C805, 806	ECBT1E103ZF	25V 0. 01U				
C543	ECBT1H104ZF5	50V 0. 1U	C809	ECBT1E103ZF	25V 0. 01U				
C600	ECEA1CKA100B	16V 10U	C811	ECBT1E103ZF	25V 0. 01U				
C601	ECBT1E103ZF	25V 0. 01U	C812	ECEA1HKA2R2B	50V 2. 2U				
C602, 603	ECBT1E223ZF	25V 0. 022U	C813	ECEA0JKA101B	6. 3V 100U				
C604	ECEA0JU331B	6. 3V 330U	C814, 815	ECBT1E103ZF	25V 0. 01U				
C605	ECEA0JKA221B	6. 3V 220U	C900	ECBT1H102KB5	50V 1000P				
C606	ECA1AM331B	10V 330U	C901	ECBT1E103ZF	25V 0. 01U				
C607, 608	ECEA1HKA3R3B	50V 3. 3U	C902	ECEA0JKA221B	6. 3V 220U				
C613, 614	ECBT1H102KB5	50V 1000P	C903	ECEA1AKA470B	10V 47U				
C615	ECEA1CKA100B	16V 10U	C904	ECEA1CKA470B	16V 47U				
C616	ECFR1E273KR	25V 0. 027U							
C617	ECFR1E472KR	25V 4700P							
C618	ECFR1E473KR	25V 0. 047U							
C619	ECEA1CKA100B	16V 10U							
C620	ECQB1H104JF3	50V 0. 1U							
C621	ECQV1H334JZ3	50V 0. 33U							
C622	ECEA1AU471	10V 470U							
C623	ECEA1CKA100B	16V 10U							
C624	ECFR1E822KR	25V 8200P							
C625, 626	ECBT1E103ZF	25V 0. 01U							
C627, 628	ECEA1CKA100B	16V 10U							
C631, 632	ECBT1H101KB5	50V 100P							
C633A	ECBT1H470J5	50V 47P							
C633	ECEA1CKA100B	16V 10U							
C634A	ECBT1H470J5	50V 47P							
C634	ECEA0JKA101B	6. 3V 100U							
C635	ECBT1H104ZF5	50V 0. 1U							
C635A	ECEA1CKA100B	16V 10U							
C636	ECEA1CKA100B	16V 10U							
C637, 638	ECBT1H101KB5	50V 100P							
C641, 642	ECBT1E103ZF	25V 0. 01U							
C655-658	ECEA1HKA010B	50V 1U							
C660-663	ECBT1H104ZF5	50V 0. 1U							
C690	ECBT1H102KB5	50V 1000P							
C701, 702	ECQV1H104JZ3	50V 0. 1U							
C703	ECA1CM332E	16V 3300U							
C704	ECA1EM471B	25V 470U							
C705-709	ECKR1H103ZF5	50V 0. 01U							
C710	ECEA1CKA330B	16V 33U							
C711	ECEA1AKA101B	10V 100U							
C713	ECA1CM221B	16V 220U							
C714	ECEA1CKA100B	16V 10U							
C715	ECA1VM101B	35V 100U							
C716	ECEA1CKA100B	16V 10U							
C717	ECEA1HKA2R2B	50V 2. 2U							
C718	ECEA1CKA100B	16V 10U							

CABINET PARTS LOCATION



Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS		10-1	RKWO192-K	FL PANEL	
				10-2	RMCO144	EARTH PLATE	
1	RHD30007	SCREW		11	RGL0157-C	PANEL LIGHT	
2	RKMO131A-1K	CABINET		12	RGU0687-K1	EQ./SFP BUTTON	
3	XTB3+8JFZ	SCREW		13	RGU0695-K	MODE BUTTON	
4	RGR0134B-A2	REAR PANEL		14	SNE4021-1	NUT	
5	RGWO137-H	JOG KNOB		15	XTBS26+8J	SCREW	
6	RFKJSCH7N-K	BOTTOM BOARD ASS'Y		16	SHR9683	HOLDER	
6-1	SHG1654	FOOT		17	XTBS3+8JFZ1	SCREW	
7	RMNO161	ANGLE		18	XTB3+12JFZ	SCREW	
8	RMNO164	P. C. B. HOLDER		19	SHE170-2	P. C. B. SPACER	
9	RMNO156	FL HOLDER		20	RYQ0086-K	SIDE ORNAMENT (L)	
10	RFKGHCH900EK	FRONT PANEL ASS'Y		21	RYQ0087-K	SIDE ORNAMENT (R)	
				22	SNE2123	GND SCREW	