

Service Manual

Sound Processor

Sound Processor

• For (E), (EB), (EG) areas

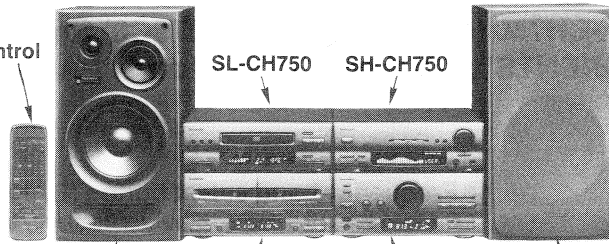
SH-CH750

Colour

(K) Black Type

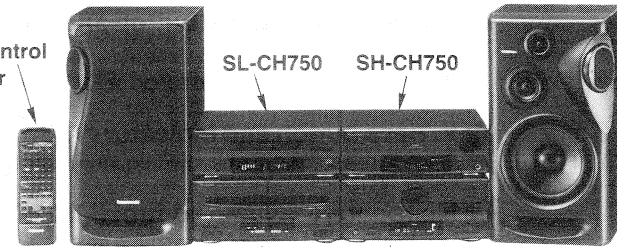
Areas

Suffix for Model No.	Area	Colour
(E)	Europe and Oceania	(K)
(GC)	Asia, Latin America, Middle Near East and Africa	



SB-CH750A/CH755 RS-CH750 SA-CH750 SB-CH750A/CH755

• For (GC), (GN) areas



SB-CH750 RS-CH750 SA-CH750 SB-CH750

System: SC-CH750

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

SPECIFICATIONS

(DIN 45 500)

■ Pre Amp. Sections

Input sensitivity and impedance

PHONO	2.5 mV/47 kΩ
CD, TUNER, TAPE	150 mV/10 kΩ
VCR, VDP, DAT (input with RCA PIN)	250 mV/17 kΩ
MIC	0.7 mV/10 kΩ

Output level

VCR, DAT REC OUT	150 mV/1.5 kΩ
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Equalizer

Center frequency

LOW	63, 80, 100, 125, 160, 220 (Hz)
HIGH 1, 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, 16 k(Hz)

Level control

LOW, HIGH 1, 2	±12 dB
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(Q) Control

NARROW	1.8
WIDE	0.7

Fixed mode

SFP	HALL, LIVE, DISCO, CHRCH (CHURCH), THTER (THEATER)
-----	--

EQ (5 modes)

HEAVY, CLEAR, SOFT, HP ST, CAR

Frequency response

PHONO (RIAA STANDARD CURVE)	30 Hz–15 kHz/+1.0, –1.5 dB
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CD, TUNER, TAPE
VCR, VDP, DAT

20 Hz–20 kHz/–2 dB
20 Hz–20 kHz/–2 dB

S/N

PHONO 64 dB (DIN)

TUNER, TAPE

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

71 dB (DIN)

CD, VCR, VDP, DAT

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

75 dB (DIN)

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

For (GC) area

MIC ECHO 0.2–1.6 sec.

For (E) area

Key control –300 to +300 cent.

Video output

MONITOR 1 V/75Ω

VCR REC OUT 1 V/75Ω

■ General

Dimensions (W×H×D)

270×89.5×270 mm

Weight

1.9 kg

Notes:

- Specifications are subject to change without notice.
- Weight and dimensions are approximate.

System	Sound processor	Tuner amplifier	Compact disc player	Cassette deck	Speakers
SC-CH750	SH-CH750	SA-CH750	SL-CH750	RS-CH750	*SB-CH750A (E), (EB), (EG) areas *SB-CH755 Switzerland only SB-CH750 (GC), (GN) areas

Technics

*Made in PAES

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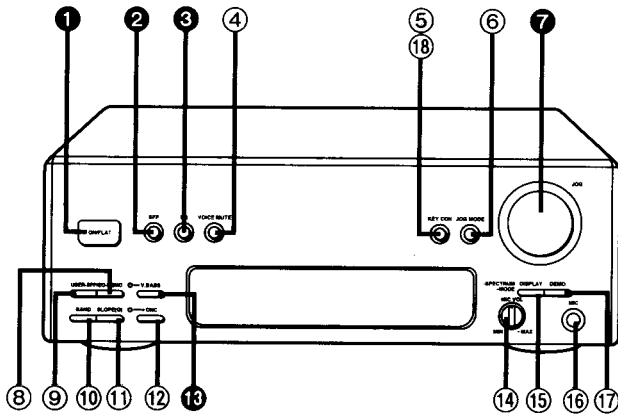
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NOTES:

Refer to the service manual for Model No. SA-CH750 (Order No. AD9211379C8) for information on "ACCESSORIES", "STACKING THE COMPONENTS", "CONNECTIONS" and "PACKAGING".

■ LOCATION OF CONTROLS

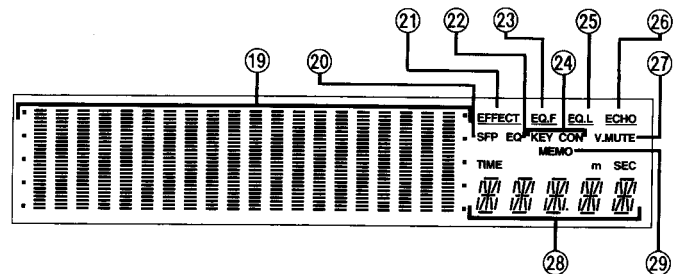


The functions indicated by the numbers with black background (for example ①) can also be activated from the remote control.

- ① **ON/FLAT button (ON/FLAT)**
Press to switch the EQ (equalizer curve) or SFP (simulated listening environment).
- ② **SFP mode button (SFP)**
Press to select the desired simulated listening environment.
- ③ **EQ mode button (EQ)**
Press to select the desired equalizer mode.
- ④ **Voice mute button (VOICE MUTE)**
Press to perform "KARAOKE" (microphone mixing with an accompaniment).
- ⑤ **Key control button (KEY CON)**
For (E) area
Use to adjust key level when performing "Karaoke".
- ⑥ **Jog mode button (JOG MODE)**
Press this button to select the desired adjustment mode.
- ⑦ **Jog control (JOG)**
Turn to adjust the level of equalizer curve, simulated listening environment, and specific frequency shift, and so on.
- ⑧ **Memory button (MEMO)**
Press to store the desired equalizer curve or simulated listening environment.
- ⑨ **User button (USER)**
Press to select the desired "USER" number.

- ⑩ **Frequency band select button (BAND)**
Press to select the desired equalizer frequency band.
- ⑪ **Slope (Q) select button [SLOPE (Q)]**
Press to select "narrow" or "wide" mode of the curve slope.
- ⑫ **Digital noise cleaner button and indicator (DNC)**
Press to reduce the noise on a tape or FM broadcast.
- ⑬ **V. Bass button and indicator (V. BASS)**
Press to boost the dynamic low-frequency ranges.
- ⑭ **Microphone volume control (MIC VOL)**
Use to adjust the microphone volume level.
- ⑮ **Display mode select button (DISPLAY, -SPECTRUM, -MODE)**
Use to select one of 5 spectrum modes.
Press and hold to extinguish the equalization curve.
- ⑯ **Microphone jack (MIC) (∅6, 10 kΩ)**
Plug microphone cord into this jack.
- ⑰ **Demonstration button (DEMO)**
Use for reference of the adjustments of equalization curves and SFP mode sounds. The pre-programmed equalization curves and SFP mode sounds will be heard sequentially for adjustment example.
- ⑱ **Echo button (ECHO)**
For (GC) area
Press to adjust the reverberation sound when in performing "Karaoke".

● Display section



- ⑲ **Multi level display**
Shows the equalization/spectrum analysis level.
- ⑳ **SFP mode indicator (SFP)**
Lights when you select the SFP mode (HALL, LIVE, DISCO, CHRCH, THTER).

21 Effect indicator (EFFECT)

Lights when you select EFFECT mode by pressing JOG MODE.

22 Equalizer mode indicator (EQ)

Lights when you select the equalizer mode (HEAVY, CLEAR, SOFT, HP ST, CAR).

23 Equalizer frequency indicator (EQ. F)

Lights when you select EQ. F mode by pressing JOG MODE.

24 Key control indicator (KEY CON)

For (E) area

Lights when you press KEY CON to adjust the key level while in the "Karaoke" mode.

25 Equalizer level indicator (EQ. L)

Lights when you select EQ. L mode by pressing JOG MODE.

26 Echo indicator (ECHO)

For (GC) area

Lights when you press ECHO to adjust the reverberation sound while in the "Karaoke" function.

27 Voice mute indicator (V. MUTE)

Lights when you activate the "Karaoke" function.

28 Sound mode display

Shows the sound mode you select.

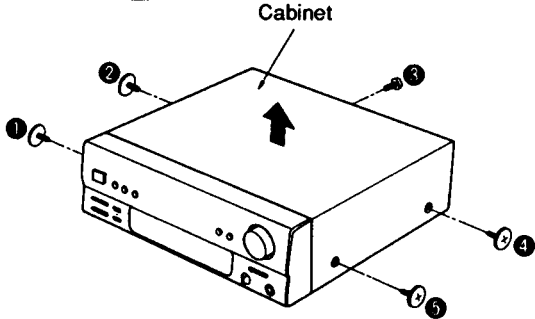
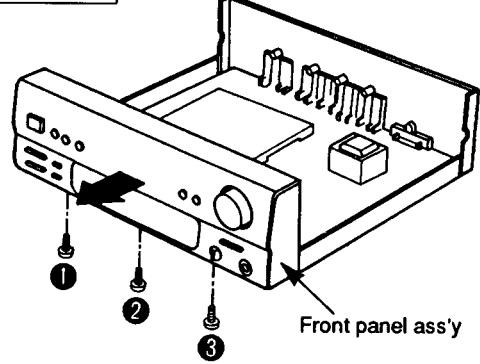
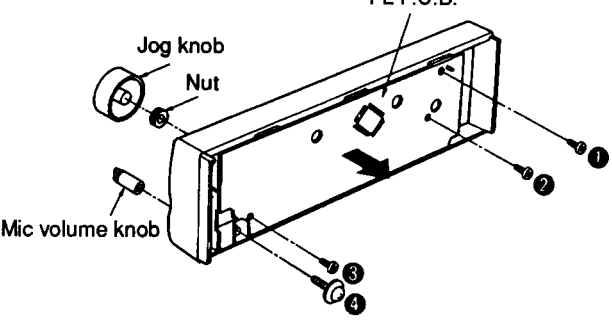
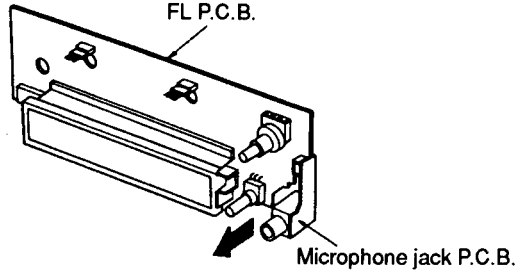
29 Memory indicator (MEMO)

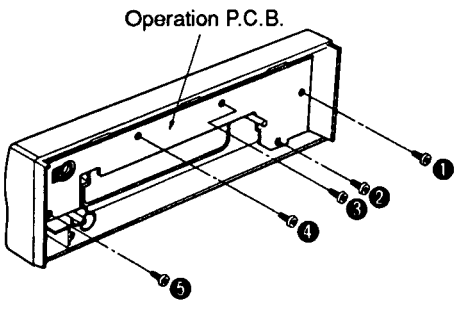
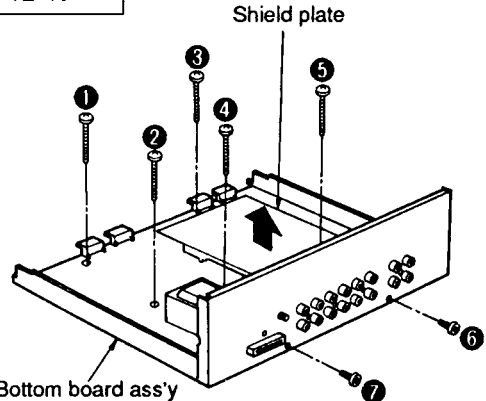
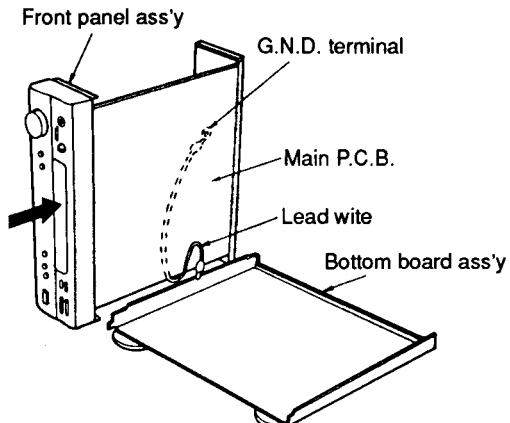
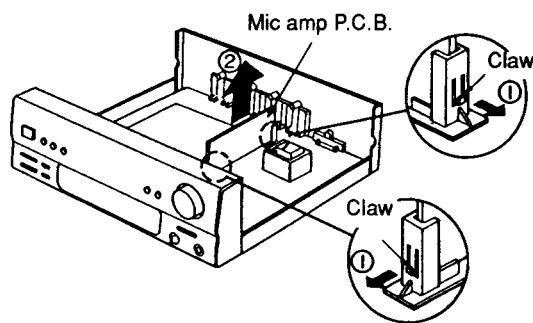
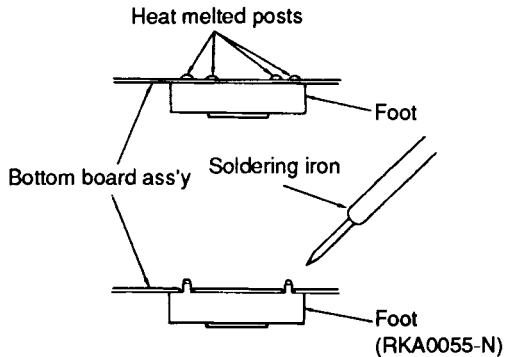
Lights when you store the desired curve or simulated listening environment.

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"

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

Ref. No. 1	Removal of the Cabinet	Ref. No. 2	Removal of the Front Panel Ass'y
Procedure 1		Procedure 1→2	
 <p>1. Remove the 5 screws (1~5). 2. Remove the cabinet in the direction of arrow.</p>		 <p>1. Remove the 3 screws (1~3). 2. Remove the front panel ass'y in the direction of arrow.</p>	
Ref. No. 3	Removal of the FL P.C.B.	Ref. No. 4	Removal of the Microphone Jack P.C.B.
Procedure 1→2→3		Procedure 1→2→3→4	
 <p>1. Pull out the jog knob and mic volume knob. 2. Remove the nut. 3. Remove the 4 screws (1~4). 4. Remove the FL P.C.B. in the direction of arrow.</p>		 <p>● Remove the microphone jack P.C.B. in the direction of arrow.</p>	

<p>Ref. No. 5</p>	<p>Removal of the Operation P.C.B.</p>	<p>Ref. No. 6</p>	<p>Removal of the Main P.C.B.</p>
<p>Procedure 1→2→3→5</p>	 <p>● Remove the 5 screws (①~⑤).</p>		<p>Procedure 1→2→6</p>
<p>Ref. No. 7</p>		<p>● When checking the soldered surfaces of main P.C.B. and replacing the parts, do as shown below.</p>	
<p>Procedure 1→2→7</p>	 <p>1. Remove the 7 screws (①~⑦). 2. Remove the bottom board ass'y. 3. Remove the shield plate in the direction of arrow.</p>	 <p>4. Reinstall the front panel ass'y to the main P.C.B. 5. Connect the G.N.D. terminal to the bottom board ass'y by the lead wire.</p>	
<p>Ref. No. 8</p>	<p>Removal of the Mic amp P.C.B. (For GC area)</p>	<p>■ Replacement of the Foot</p>	
<p>Procedure 1→8</p>	 <p>● Pull the 2 claws in the direction of arrow ①, and remove the mic amp P.C.B. in the direction of arrow ②.</p>		<p>1. Remove the 4 heat melted posts on the bottom board ass'y with a pair of nippers or similar tool. 2. To replace the foot (RKA0055-N) on the bottom board ass'y, melt the 4 posts with a soldering iron.</p> 

MEASUREMENT

■ This unit (SH-CH750) is actuated by power supply from the tuner amplifier SA-CH750.
If you wish to actuate this unit without using the tuner amplifier SA-CH750 for checking or repairing, follow below procedure.

● Apply AC 10 V between **AC** (J704)– **GND** (J705)– **AC** (J706). (Shown in Fig. 1)

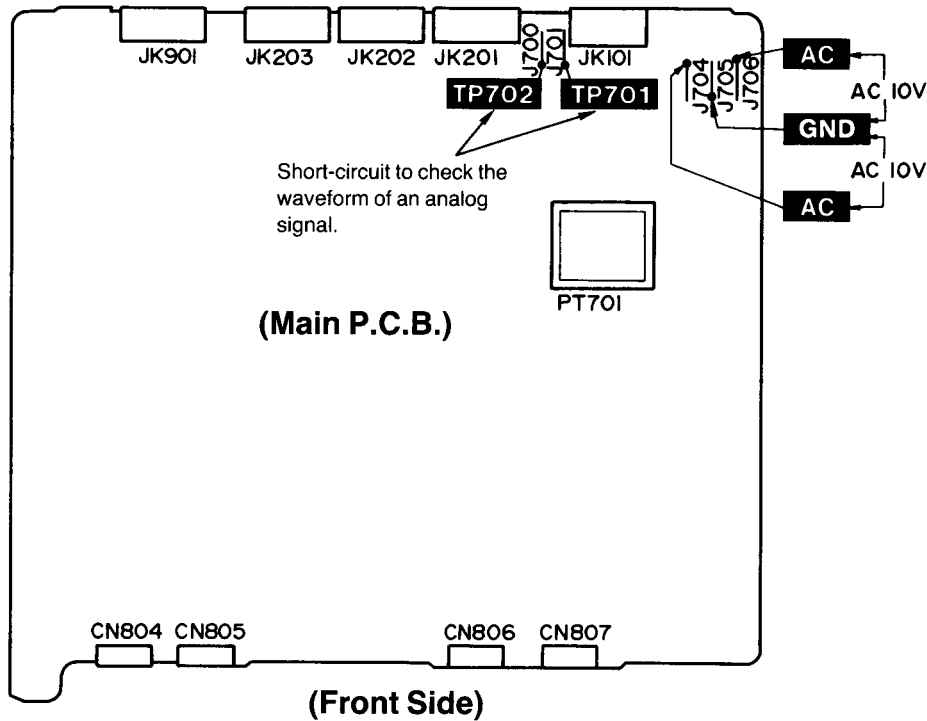


Fig. 1

How to Select Input Signal

The SH-CH750 is not equipped with the Input Signal Selector since the input signal is selected on the Tuner amplifier SA-CH750. However, you can select signal source on SH-CH750 by following the operating procedures mentioned in Fig. 2.

1. Press the ON/FLAT (S801), SFP (S802) and EQ (S803) buttons simultaneously and hold for 4 seconds.
2. Afterwards, the following buttons allow you to select the desired source.
3. After finishing the measurement of voltage, press the DISPLAY (S811) button.

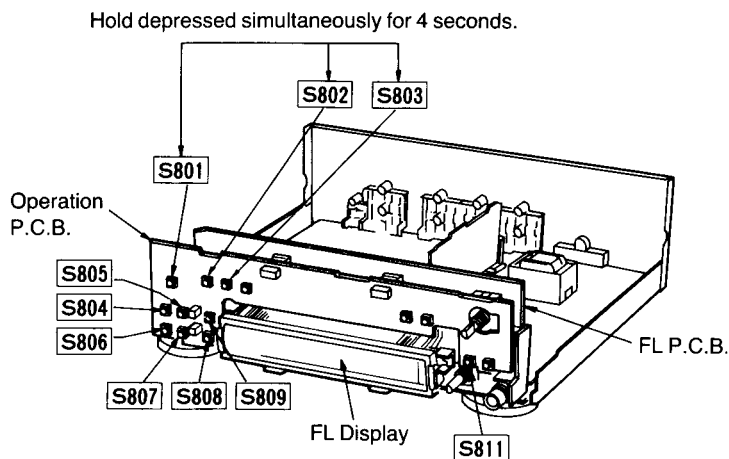
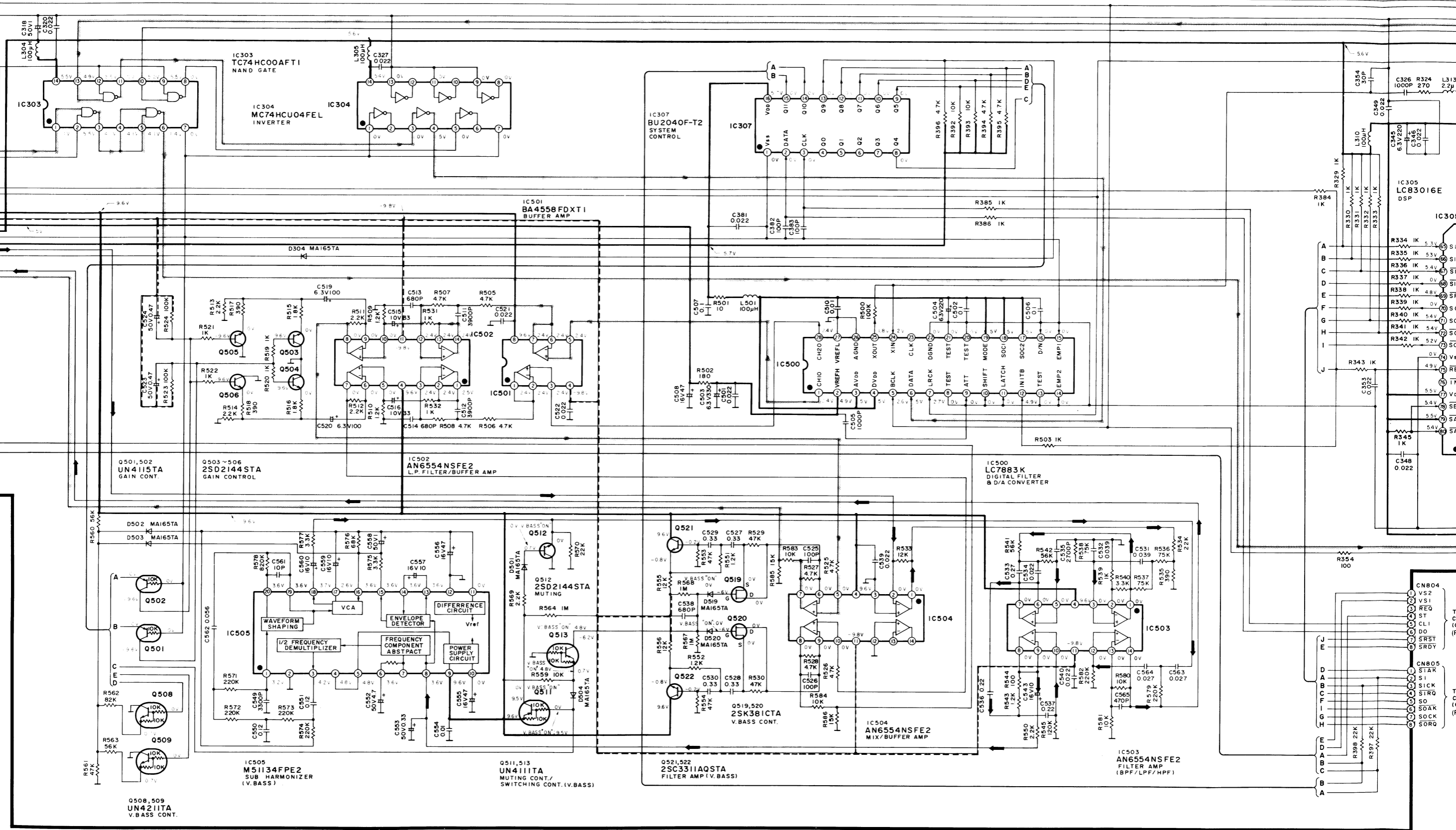


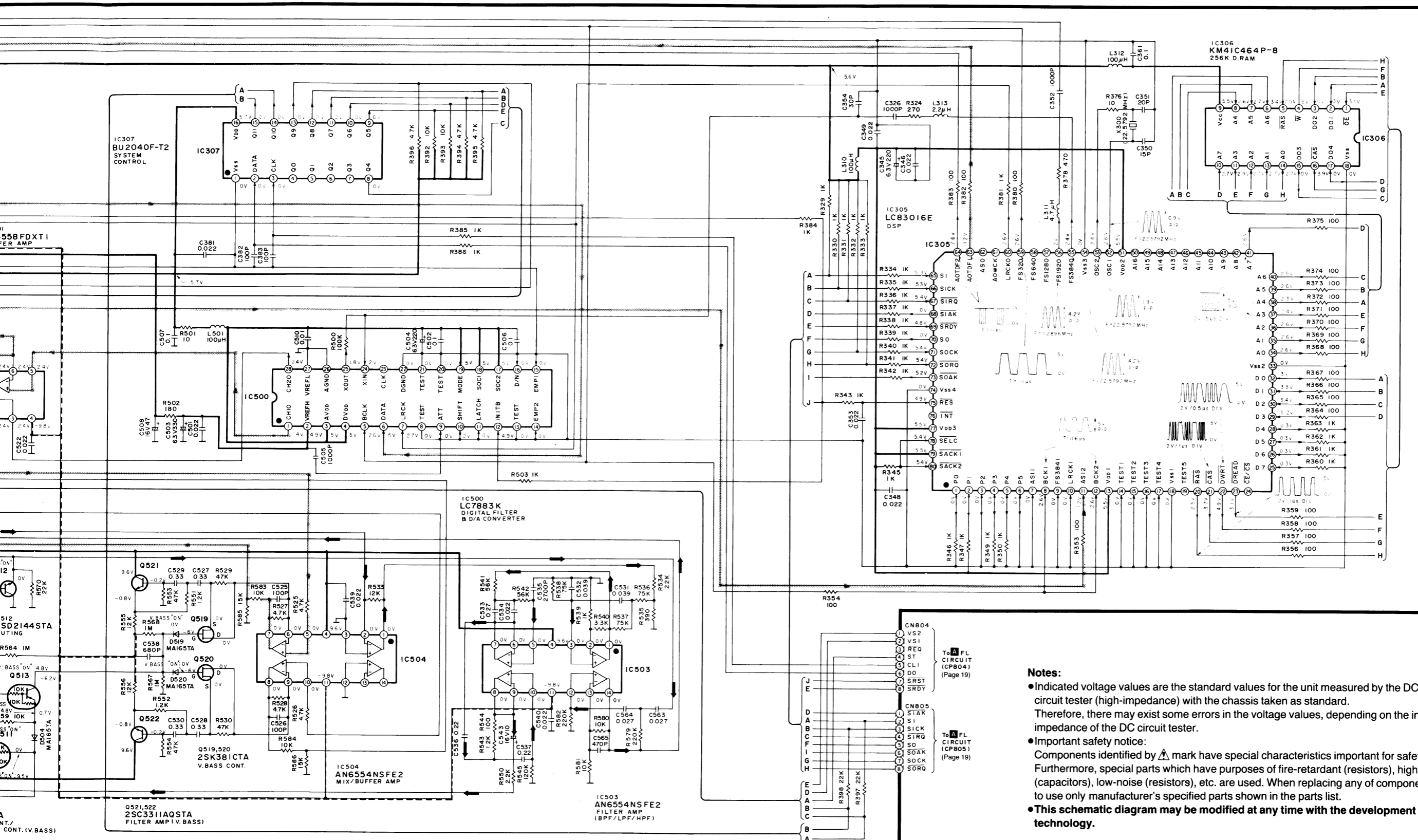
Fig. 2

Switch	Switch S808 DNC button	Switch S807 SLOPE (Q) button	Switch S809 V. BASS button	Switch S804 USER button
Mode indicator on FL display	DAT (DAT mode)	BS (BS mode)	PHONO (PHONO mode)	TAPE (TAPE mode)

Switch	Switch S805 MEMO button	Switch S806 BAND button	Switch S802 SFP button	Switch S803 EQ button
Mode indicator on FL display	TUNER (Tuner mode)	CD (CD mode)	VDP (VDP mode)	VCR (VCR mode)

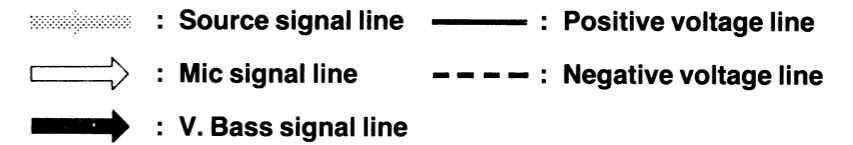


20 21 22 23 24 25 26 27 28

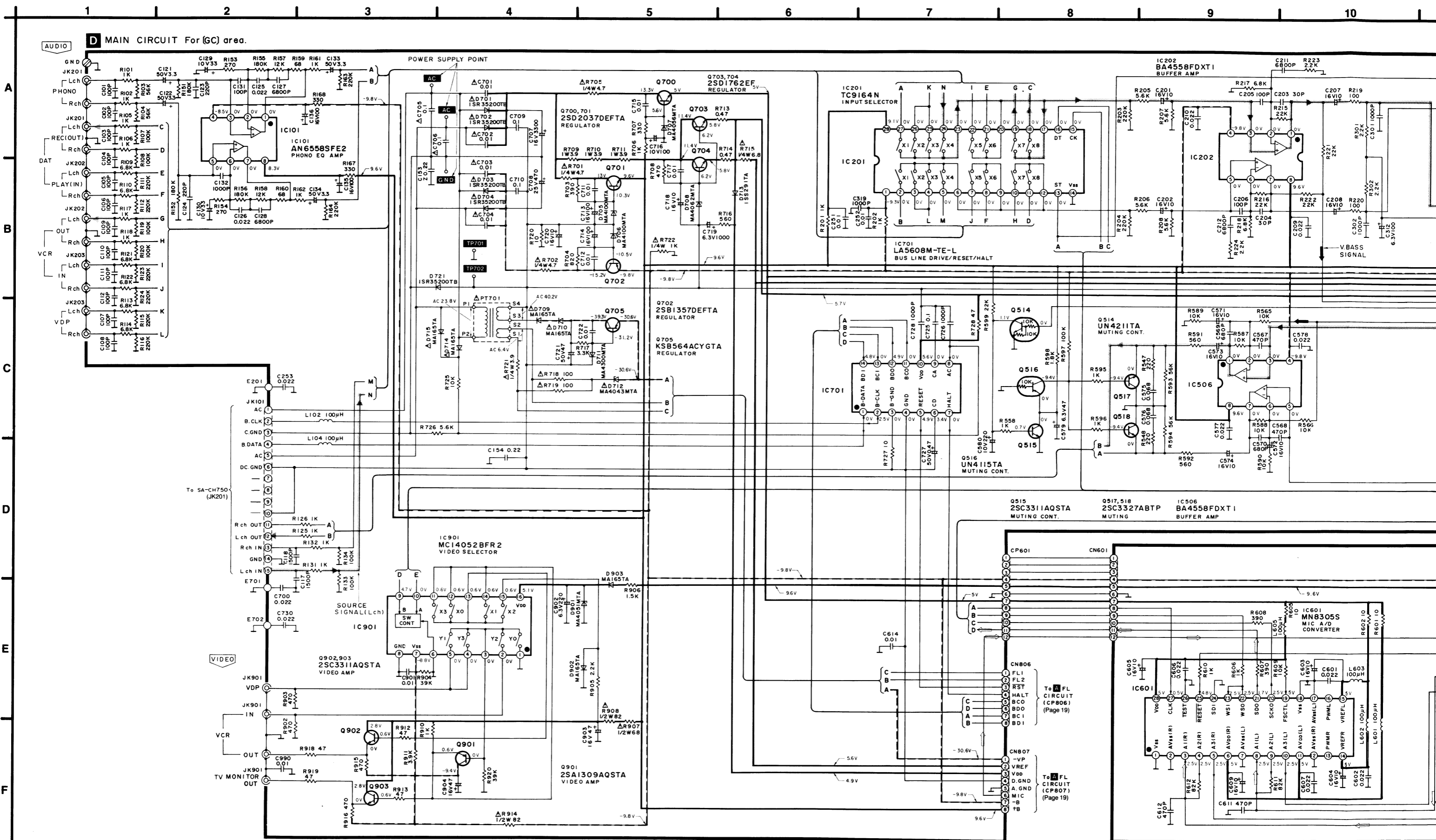


Notes:

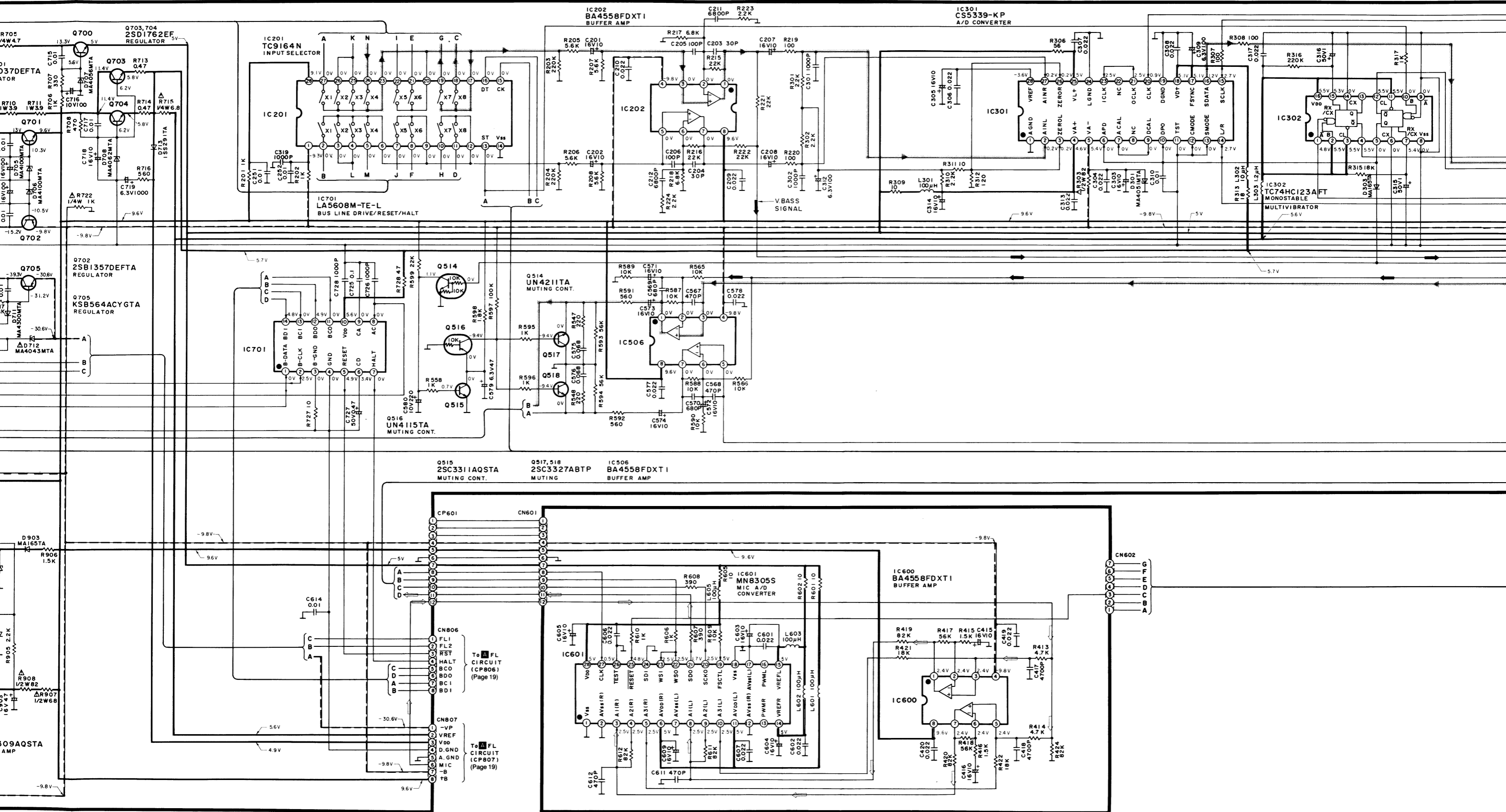
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Important safety 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.
- This schematic diagram may be modified at any time with the development of new technology.



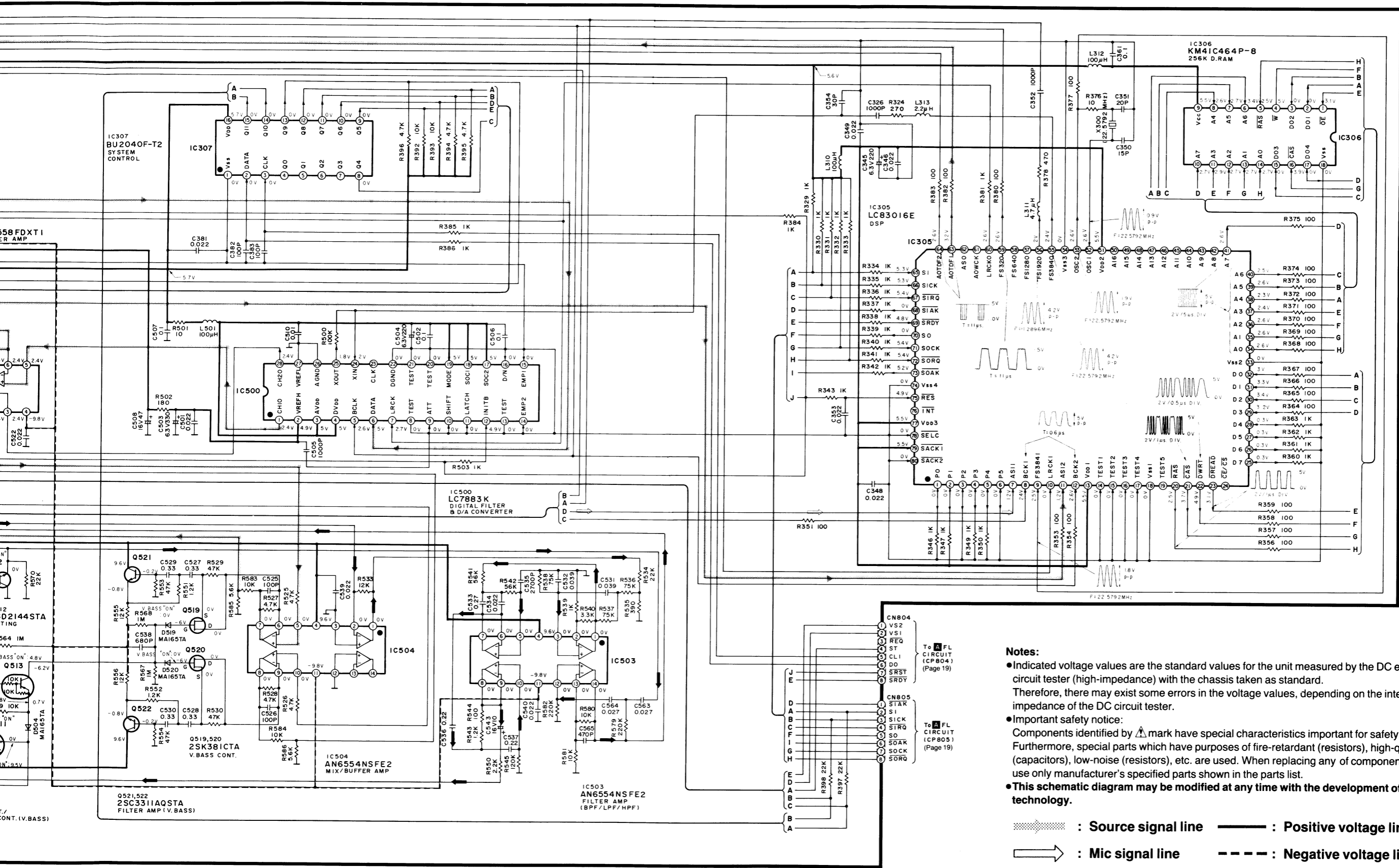
SCHEMATIC DIAGRAM • MAIN CIRCUIT for (GC) area (Parts list on pages 31~35.)



E MIC AMP CIRCUIT For (GC) area.

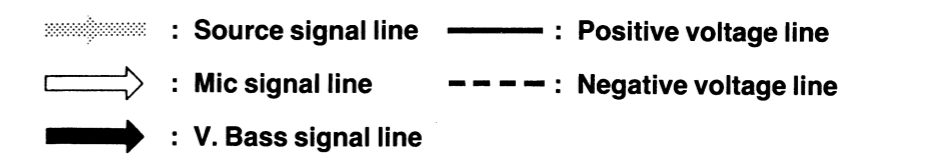


E MIC AMP CIRCUIT For [GC] area.

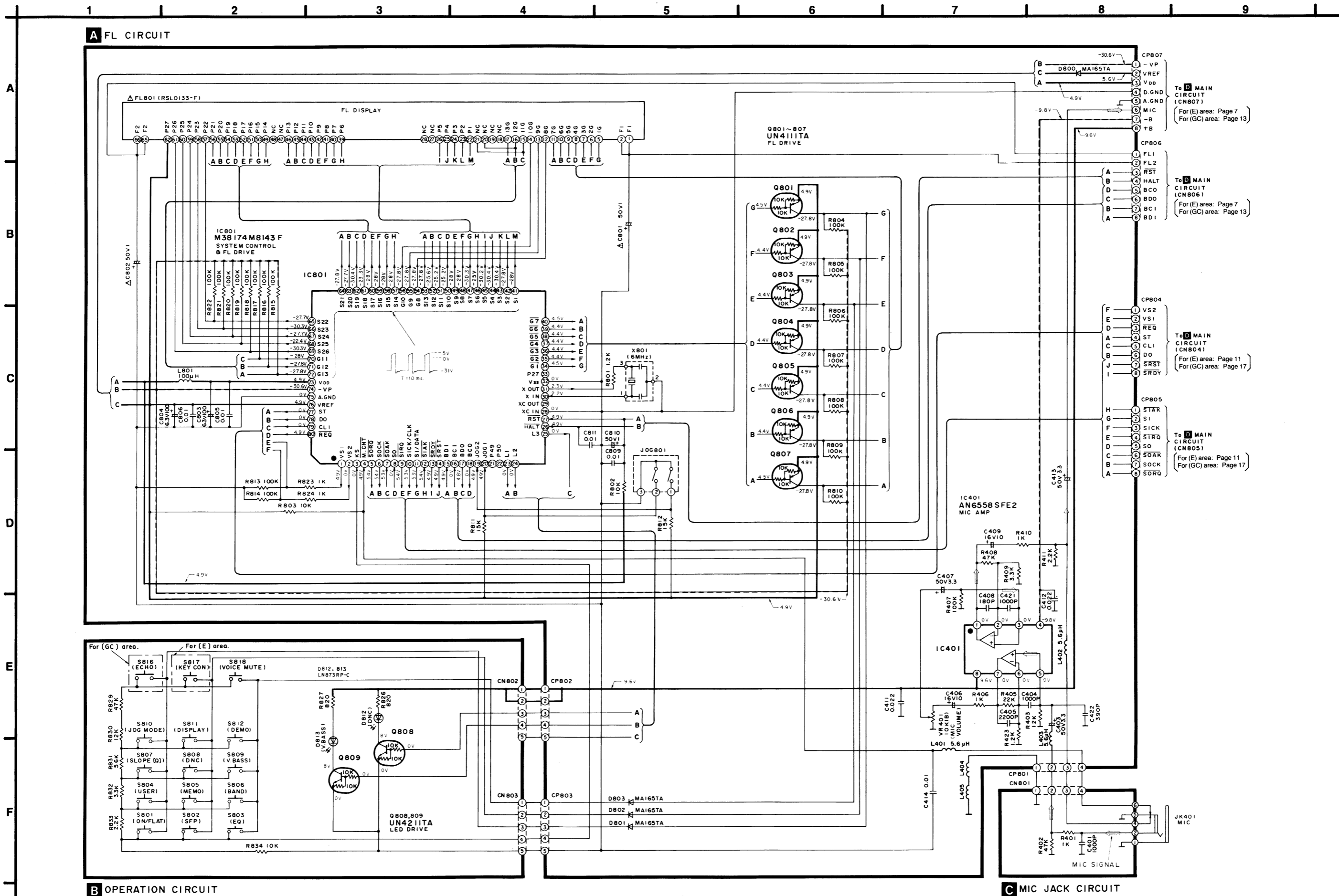


Notes:

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



SCHEMATIC DIAGRAM • FL, OPERATION and MIC JACK CIRCUIT (Parts list on pages 31~35.)



Notes:

- S801 : ON/FLAT switch (ON/FLAT)
- S802 : SFP mode switch (SFP)
- S803 : EQ mode switch (EQ)
- S804 : User switch (USER)
- S805 : Memory switch (MEMO)
- S806 : Frequency band select switch (BAND)
- S807 : Slope (Q) select switch [SLOPE (Q)]
- S808 : Digital noise cleaner switch (DNC)
- S809 : V. Bass switch (V. BASS)
- S810 : Jog mode switch (JOG MODE)
- S811 : Display mode select switch (DISPLAY, -SPECTRUM, -MODE)
- S812 : Demonstration switch (DEMO)
- S816 : Echo switch (ECHO) <For (GC) area>
- S817 : Key control switch (KEY CON) <For (E) area>
- S818 : Voice mute switch (VOICE MUTE)

●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.

●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.

●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.

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

———— : Positive voltage line

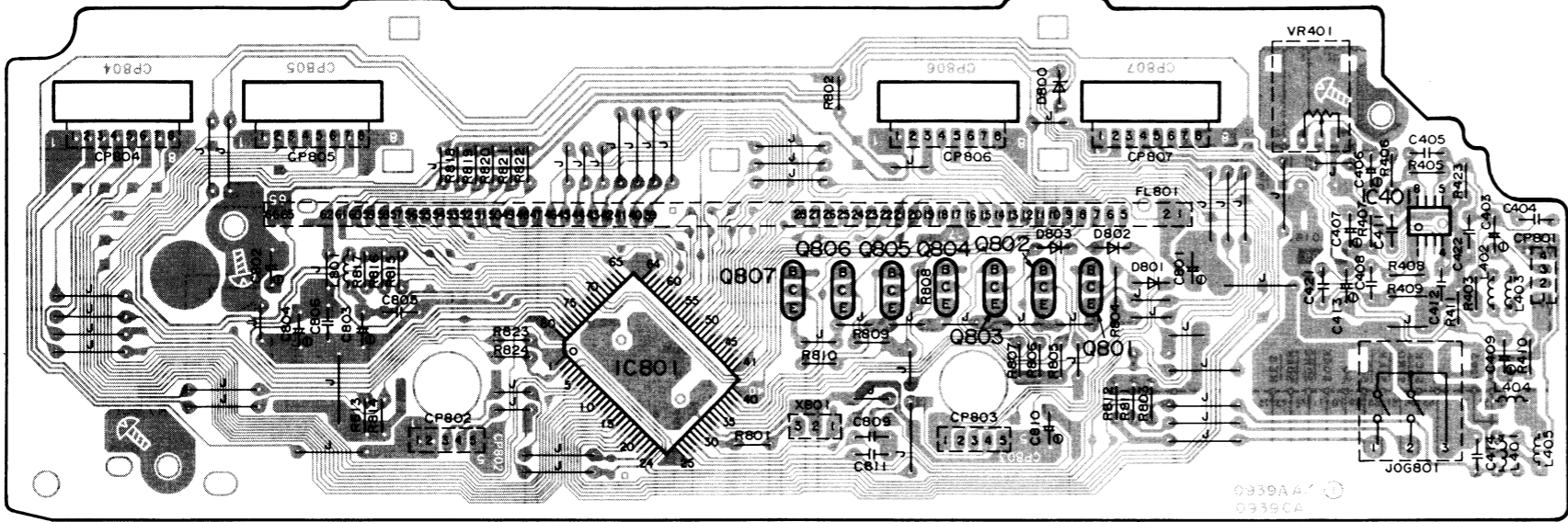
- - - - : Negative voltage line

⇨ : Mic signal line

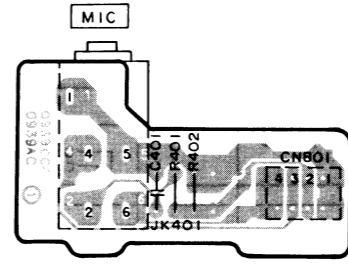
WIRING CONNECTION DIAGRAM

7 | 8 | 9 | 10 | 11 | 12 | 13 | 14

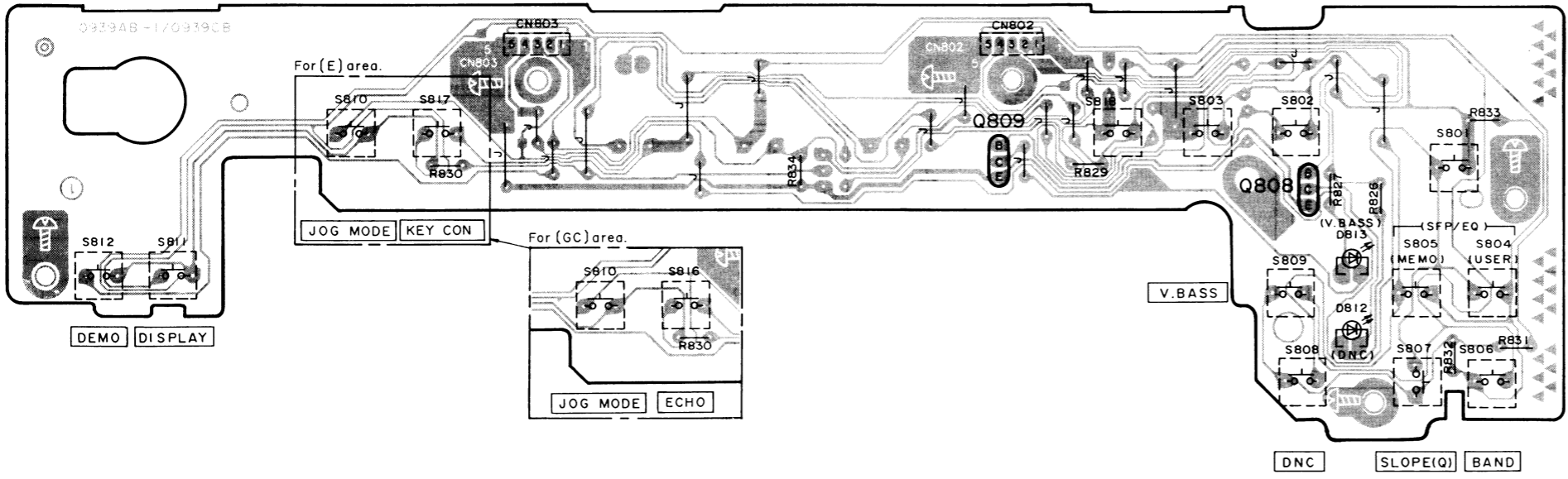
A FL P.C.B. (REP1476B-S... (E)
REP1476C-S... (GC))



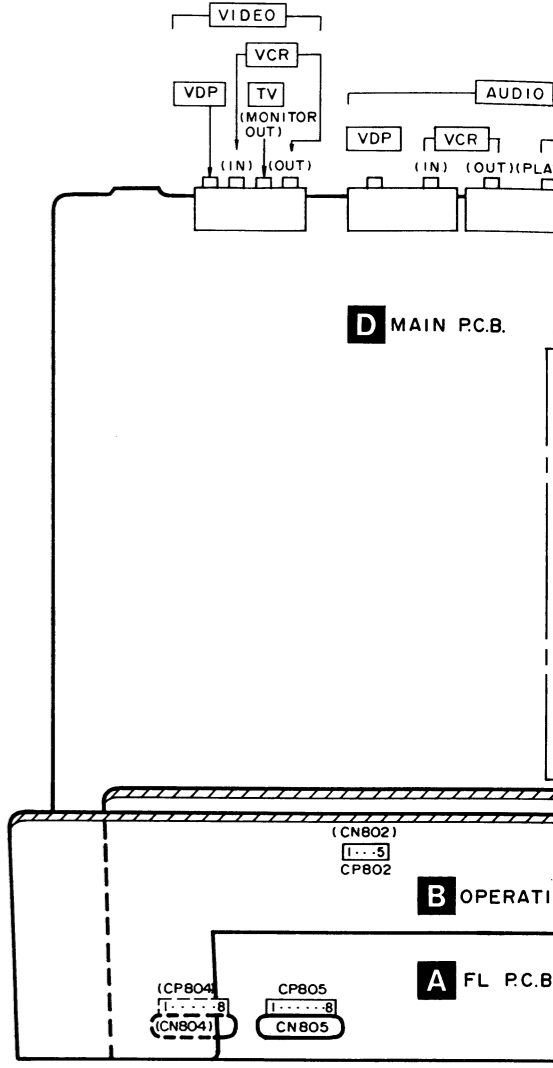
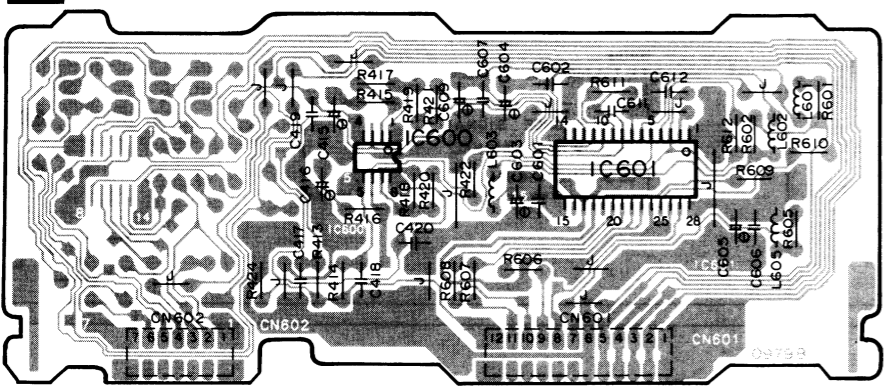
C MIC JACK P.C.B. (REP1476B-S... (E)
REP1476C-S... (GC))



B OPERATION P.C.B. (REP1476B-S... (E)
REP1476C-S... (GC))



E MIC AMP P.C.B. For (GC) area. (REP1512B-T)

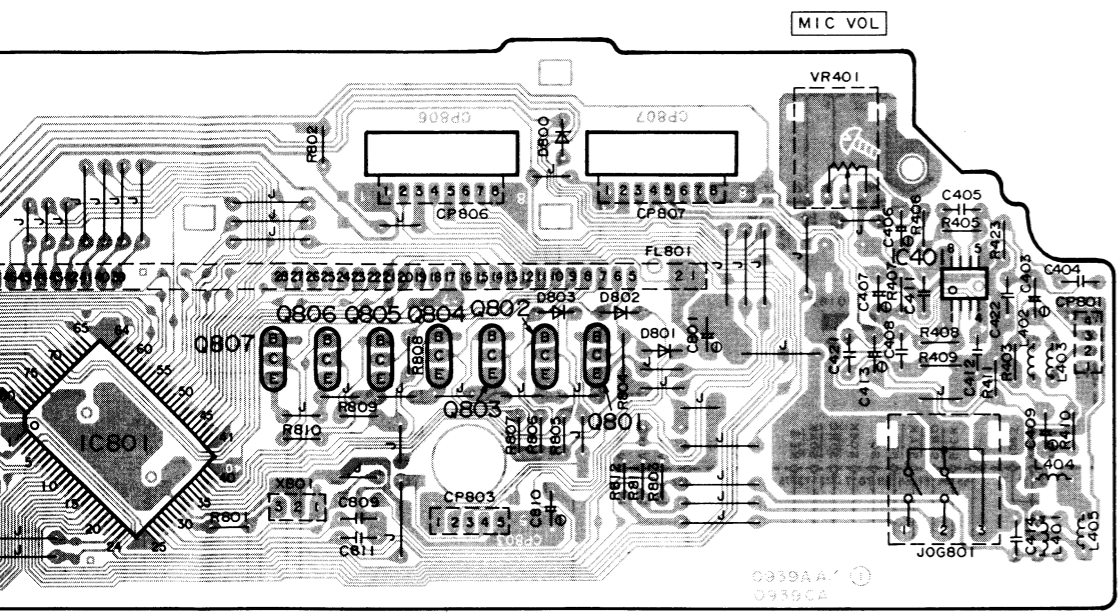


Terminal guide of IC's, trans

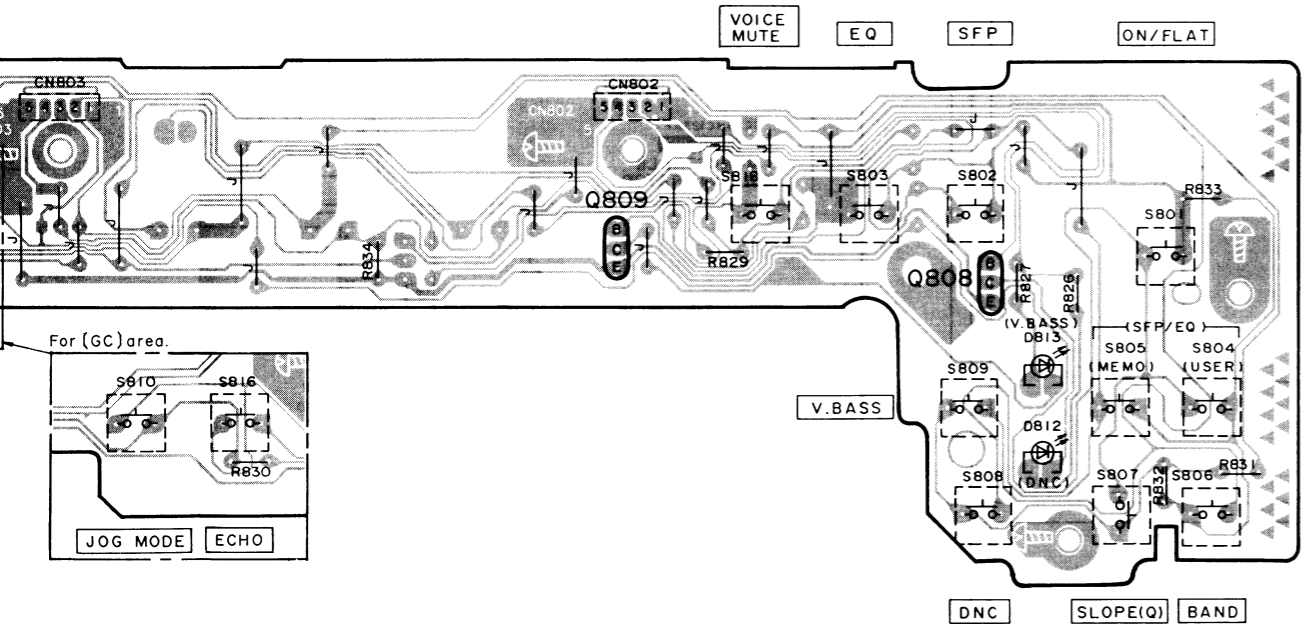
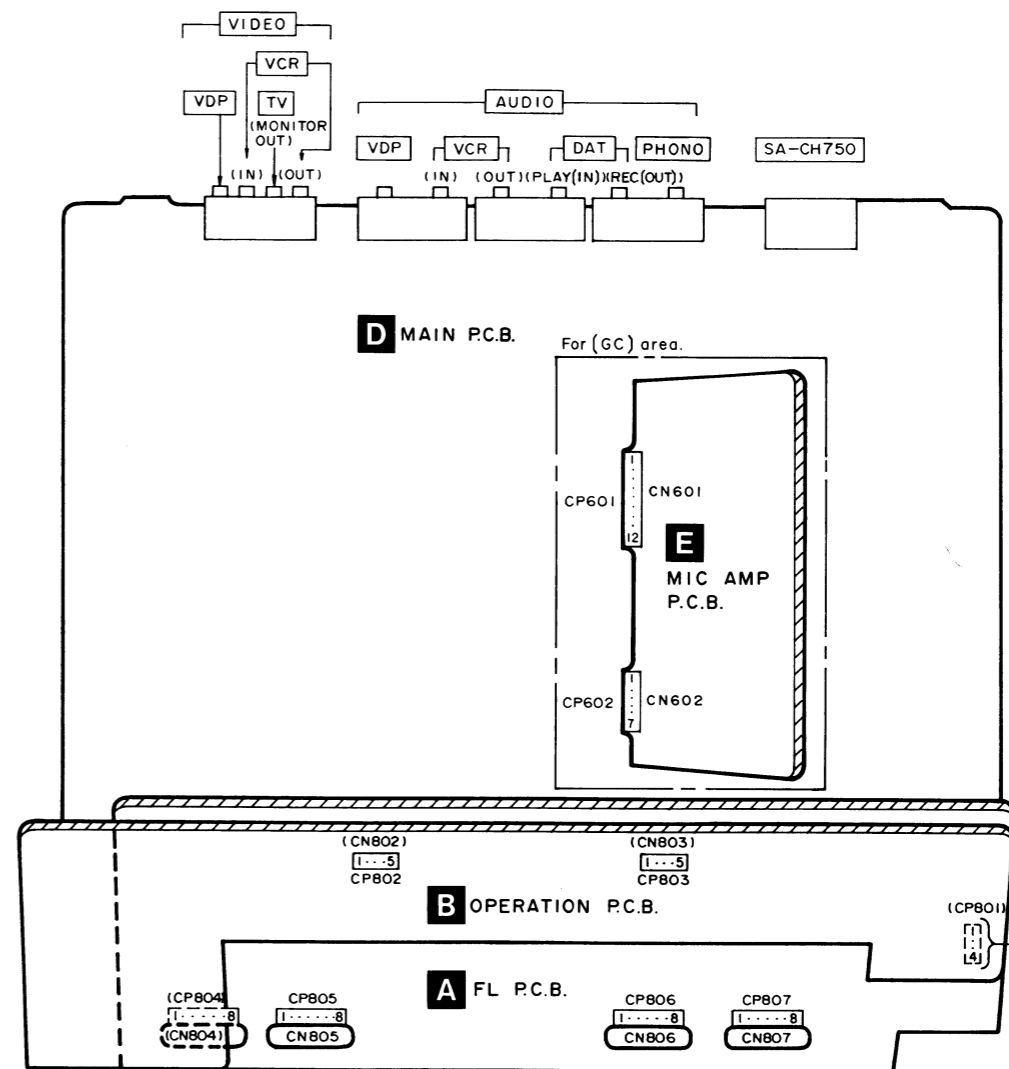
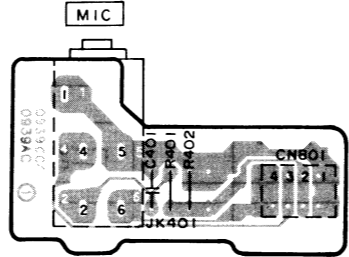
<p>KM41C464P-8</p>	<p>TC9164N</p>	<p>CS5339-KP LC7883K</p>	<p>M38174M8143F</p>	<p>LC83016E</p>	<p>2SC3327A 2SD2144S</p>
<p>2SB1357DEFTA 2SD2037DEFTA</p>	<p>KSB564ACYGTA</p>	<p>2SK381CTA</p>	<p>MA165TA 1SR35200TB</p>	<p>1SS291TA</p>	<p>MA4100M MA4300M</p>

WIRING CONNECTION DIAGRAM

10 | 11 | 12 | 13 | 14

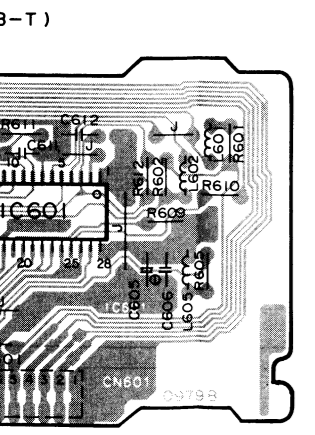


C MIC JACK P.C.B.
 (REP I476B-S... (E)
 (REP I476C-S... (GC))

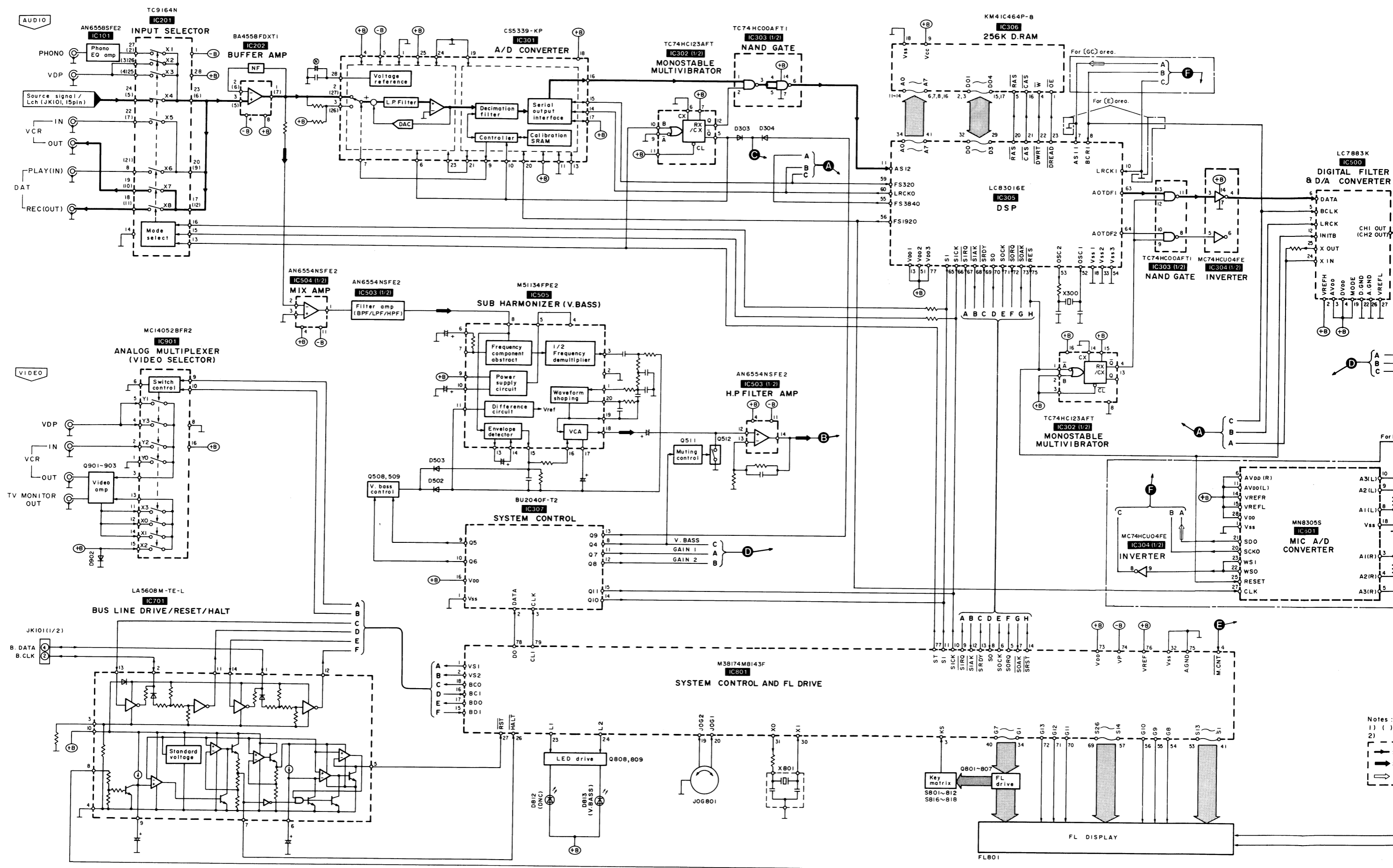


Terminal guide of IC's, transistors and diodes

<p>BA4558FDXT1</p>	<p>TC74HC00AFT1 14Pin</p> <p>TC74HC123AFT 16Pin</p>	<p>No.1</p>	<p>AN6558SFE2 8Pin</p> <p>AN6554NSFE2 14Pin</p> <p>LA5608M-TE-L 14Pin</p> <p>MC74HCU04FEL 14Pin</p> <p>BU2040F-T2 16Pin</p> <p>MC14052BFR2 16Pin</p> <p>M51134FPE2 20Pin</p> <p>MN8305S 28Pin</p>				
<p>KM41C464P-8</p>	<p>TC9164N</p>	<p>CS5339-KP LC7883K</p>	<p>M38174M8143F</p>	<p>LC83016E</p>	<p>2SC3327ABTP</p> <p>2SD2144STA</p>	<p>2SD1762EF</p>	<p>2SA1309AQSTA</p> <p>2SC3311AQSTA</p> <p>UN4111TA</p> <p>UN4115TA</p> <p>UN4211TA</p>
<p>2SB1357DEFTA</p> <p>2SD2037DEFTA</p>	<p>KSB564ACYGTA</p>	<p>2SK381CTA</p>	<p>MA165TA</p> <p>1SR35200TB</p>	<p>1SS291TA</p>	<p>MA4100MTA</p> <p>MA4300MTA</p>	<p>MA4043MTA</p> <p>MA4051MTA</p> <p>MA4056MTA</p> <p>MA4062MTA</p>	<p>LN873RP-C</p>



■ BLOCK DIAGRAM



FUNCTION OF IC TERMINALS

●IC305 (LC83016E)

Pin No.	Terminal Name	I/O	Function
1 } 6	P0 } P5	I/O	General-purpose I/O port
7	ASI1	I	Serial audio data input 1
8	BCK1	I	Bit clock signal input for ASI1 input
9	FS384I	I	384fs or 512fs input
10	LRCKI	I	L/R channel discrimination signal input ("H": L channel, "L": R channel)
11	ASI2	I	Serial audio data input 2
12	BCK2	I	Bit clock signal input for ASI2
13	V _{DD1}	—	Power supply terminal (+5 V)
14 } 17	TEST1 } TEST4	I	Test terminal, Normally grounded
18	V _{SS1}	—	GND
19	TEST5	O	Test terminal, Normally open
20	$\overline{\text{RAS}}$	O	RAS signal output on DRAM access
21	$\overline{\text{CAS}}$	O	CAS signal output on DRAM access
22	$\overline{\text{DWRT}}$	O	Data Write signal output on memory access
23	$\overline{\text{DREAD}}$	O	Data Read signal output on memory access
24	$\overline{\text{CE/CS}}$	—	—
25 } 32	D7 } D0	I/O	Data input/output to DRAM
33	V _{SS2}	—	GND
34 } 41	A0 } A7	I/O	Data input/output to DRAM
42 } 50	A8 } A16	—	—
51	V _{DD2}	—	Power supply terminal (+5 V)
52	OSC1	I	Crystal oscillator connection
53	OSC2	O	

Pin No.	Terminal Name	I/O	Function
54	V _{SS3}	—	GND
55	FS384O	O	384fs or 512fs output
56	FS192O	O	192fs or 256fs output
57	FS128O	—	—
58	FS64O	—	—
59	FS32O	O	32fs or 16fs output
60	LRCKO	O	1fs output
61	AOWCK	—	—
62	ASO	—	—
63	AOTDF1	O	Serial audio data output 2
64	AOTDF2	O	Serial audio data output 3
65	SI	I	Serial data input from control microprocessor
66	SICK	I	Serial clock input for SI
67	$\overline{\text{SIRQ}}$	I	Request signal input for serial input
68	$\overline{\text{SIACK}}$	O	Signal output indicating serial input execution
69	$\overline{\text{SRDY}}$	I	Ready signal input indicating serial data input completion from control microprocessor
70	SO	O	Serial data output to control microprocessor
71	SOCK	I	Serial clock input for SO
72	$\overline{\text{SORQ}}$	I	Request signal input for serial output
73	$\overline{\text{SOACK}}$	O	Signal output indicating serial output execution
74	V _{SS4}	—	GND
75	$\overline{\text{RES}}$	I	Reset signal input
76	$\overline{\text{INT}}$	—	—
77	V _{DD3}	—	Power supply terminal (+5 V)
78	$\overline{\text{SELC}}$	I	Connected to V _{SS} terminal
79	$\overline{\text{SACK1}}$	I	Connected to V _{DD} terminal
80	$\overline{\text{SACK2}}$	I	Connected to V _{SS} terminal

●IC500 (LC7883K)

Pin No.	Terminal Name	I/O	Function
1	CH1O	O	DAC CH.1 output terminal (L-ch OUT)
2	VREF H	I	Input terminal for reference voltage "H"
3	AV _{DD}	—	Power supply terminal for analog circuit
4	DV _{DD}	—	Power supply terminal for digital circuit
5	BCLK	I	Bit clock terminal
6	DATA	I	Digital audio data input terminal Bit-serial input from the MSB side
7	LRCK	I	LR clock input terminal LRCK="H" CH1 LRCK="L" CH2
8	TEST	I	Test terminal (Normally "L")
9	ATT	I	Attenuation data input terminal Bit-serial input from the LSB side (Not used)
10	SHIFT	I	Clock input terminal for attenuation data transfer (Not used)
11	LATCH	I	Clock input terminal for attenuation data latch (Not used)
12	INITB	I	Initialization signal input terminal (Normally "H")
13	TEST	I	Test terminal (Normally "L") (Not used)

Pin No.	Terminal Name	I/O	Function
14	EMP2	I	De-emphasis setting terminal
15	EMP1	I	
16	D/N	I	Double speed/normal speed switch terminal (Not used)
17	SOC2	I	Input source selection terminal (PULL DOWN) (Not used)
18	SOC1	I	
19	MODE	I	Operating mode setting terminal (PULL DOWN)
20	TEST	I	Test terminal (Normally "L") (PULL DOWN) (Not used)
21	TEST	I	
22	DGND	—	GND terminal for digital circuit (Not used)
23	CLK	O	Clock output terminal (Not used) 392Fs: 1/2XOUT 384Fs, 448Fs, 512Fs: XOUT
24	XIN	I	Crystal oscillator input terminal
25	XOUT	O	Crystal oscillator output terminal
26	AGND	—	GND terminal for analog circuit
27	VREF L	I	Input terminal for reference voltage "L"
28	CH2O	O	DAC CH-2 output terminal (R-ch OUT)

●IC601 (MN8305S)

Pin No.	Terminal Name	I/O	Function
1	V _{SS}	—	Digital ground terminal
2	AV _{SS} (R)	—	Analog ground terminal for PDM circuit (R ch)
3	A1 (R)	I	R/L channel input terminal for PDM circuit
4	A2 (R)	O	R/L channel output terminal for PDM circuit
5	A3 (R)	O	R/L channel output terminal for PDM circuit
6	AV _{DD} (R)	—	Analog power supply terminal for PDM circuit (R ch)
7	AV _{SS} (L)	—	Analog ground terminal for PDM circuit (L ch)
8	A1 (L)	I	R/L channel input for PDM circuit
9	A2 (L)	O	R/L channel output for PDM circuit
10	A3 (L)	O	R/L channel output for PDM circuit
11	AV _{DD} (L)	—	Analog power supply terminal for PDM circuit (L ch)
12	AV _{SS} (R)	—	Analog ground terminal for PWM output terminal (R ch)
13	PWMR	—	—
14	VREFR	—	Analog power supply terminal for PWM output (R ch)

Pin No.	Terminal Name	I/O	Function
15	VREFL	—	Analog power supply terminal for PWM output (L ch)
16	PWML	—	—
17	AV _{SS} (L)	—	Analog ground terminal for PWM output terminal (L ch)
18	V _{SS}	—	Digital ground terminal
19	FSCTL	I	Sampling frequency (fs) control terminal
20	SCKO	O	Serial clock output terminal
21	SDO	O	Serial data output terminal
22	WSO	O	Word select output terminal
23	WSI	I	Word select input terminal
24	SDI	—	—
25	RESET	I	Reset terminal
26	TEST	I	Test terminal
27	CLK	I	Clock input terminal
28	V _{DD}	—	Digital power supply terminal

●IC801 (M38174M8143F)

Pin No.	Terminal Name	I/O	Function
1	VS1	O	Visual selector signal output
2	VS2	O	Visual selector signal output
3	KS	I	Key scan signal input
4	$\overline{\text{M.CNT}}$	I	Microphone presence detect signal input ("L": present, "H": absent)
5	$\overline{\text{SORQ}}$	O	DSP control signal input/output
6	SOCK	O	
7	$\overline{\text{SOAK}}$	I	
8	SO	I	
9	$\overline{\text{SIRQ}}$	O	
10	SICK/CLK	O	
11	SI/DATA	O	
12	$\overline{\text{SIK}}$	I	
13	$\overline{\text{SRDY}}$	O	
14	$\overline{\text{SRST}}$	O	System reset signal output
15	BDI	I	Bus data input
16	BCI	I	Bus clock input
17	BDO	O	Bus data output
18	BCO	O	Bus clock output
19	JOG2	I	Encoder input A
20	JOG1	I	Encoder input B
21	P49	—	—
22	P50	—	—
23	L1	O	D812 (DNR) drive signal output (H: Light)
24	L2	O	D813 (V, BASS) drive signal output (H: Light)
25	L3	O	D814 (PRO-LOGIC) drive signal output (H: Light)

Pin No.	Terminal Name	I/O	Function
26	$\overline{\text{HALT}}$	I	Backup mode detect signal input
27	$\overline{\text{RST}}$	I	Reset signal input
28	XCIN	I	One-time oscillation mode switch signal input
29	XCOUT	—	—
30	XIN	I	Ceramic oscillator signal input (6.00 MHz)
31	XOUT	O	Ceramic oscillator signal output (6.00 MHz)
32	V _{SS}	—	GND
33	P27	—	—
34 } 40	$\overline{\text{G1}}$ } $\overline{\text{G7}}$	O	FL grid signal output
41 } 53	S1 } S13	O	FL segment signal output
54 } 56	G8 } G10	O	FL grid signal output
57 } 69	S14 } S26	O	FL segment signal output
70 } 72	G11 } G13	O	FL grid signal output
73	V _{DD}	—	Power supply input (+5 V)
74	-VP	—	Pull-down power supply input
75	A. GND	—	GND
76	VREF	I	Reference voltage input for A/D converter
77	ST	O	Strobe signal output for TC9164N control
78	DO	O	Data output for BU2040/M50194P control
79	CLI	O	Clock signal output for BU2040 control
80	$\overline{\text{REQ}}$	O	Request signal output for M50194P control

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 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)		Q901	2SA1309A-R	TRANSISTOR	
				Q902, 903	2SC3311A-Q	TRANSISTOR	
IC101	AN6558SFE2	I. C. BUFFER AMP.				DIODE(S)	
IC201	TC9164N	I. C. INPUT SELECTOR		D301	MA4051MTA	DIODE	
IC202	BA4558FDXT1	I. C. BUFFER AMP.		D303, 304	MA165	DIODE	
IC301	CS5339-KP	I. C. A/D CONVERTER		D501-504	MA165	DIODE	
IC302	TC74HC123AFT	I. C. MONOST. MULTIVIBRATOR		D519, 520	MA165	DIODE	
IC303	TC74HC00AFT1	I. C. NAND GATE		D701-704	1SR35200TB	DIODE	Δ
IC304	MC74HC04FEL	I. C. INVERTER		D705, 706	MA4100MTA	DIODE	
IC305	LC83016E	I. C. D. S. P.		D707	MA4056MTA	DIODE	
IC306	KM41C464P-8	I. C. 256K D-RAM		D708	MA4062MTA	DIODE	
IC307	BU2040F-T2	I. C. SYSTEM CONTROL		D709, 710	MA165	DIODE	Δ
IC401	AN6558SFE2	I. C. MIC AMP.		D711	MA4300M	DIODE	
IC500	LC7883K	I. C. D/A CONVERTER		D712	MA4043M	DIODE	Δ
IC501	BA4558FDXT1	I. C. BUFFER AMP.		D713	1SS291TA	DIODE	
IC502	AN6554NSFE2	I. C. BUFFER AMP.		D714, 715	MA165	DIODE	Δ
IC503	AN6554NSFE2	I. C. FILTER AMP.		D721	1SR35200TB	DIODE	
IC504	AN6554NSFE2	I. C. BUFFER AMP.		D800-803	MA165	DIODE	
IC505	MS1134FPE2	I. C. SUB HARMONIZER		D812, 813	LN873RP-C	DIODE	
IC506	BA4558FDXT1	I. C. BUFFER AMP.		D901	MA4051MTA	DIODE	
IC600	BA4558FDXT1	I. C. BUFFER AMP.	(GC)	D902, 903	MA165	DIODE	
IC601	MN8305S	I. C. A/D CONVERTER	(GC)			VARIABLE RESISTOR(S)	
IC701	LA5608M-TE-L	I. C. BUS LINE DRIVE/RESET		VR401	EVJ02BF03B14	V. R. MIC VOLUME	
IC801	M38174M8143F	I. C. FL DRIVE/SYSTEM CONT.		JOG801	EVQWPA02224B	V. R. JOG CONTROL	
IC901	MC14052BFR2	I. C. VIDEO SELECTOR				COIL(S)	
		TRANSISTOR(S)		L102	ELEXT101KA9	COIL	
Q501, 502	UN4115	TRANSISTOR		L104	ELEXT101KA9	COIL	
Q503-506	2SD2144S	TRANSISTOR		L301	ELEXT101KA9	COIL	
Q508, 509	UN4211	TRANSISTOR		L302	ELEXT100KA9	COIL	
Q511	UN4111	TRANSISTOR		L303	ELEXT1R2KA9	COIL	
Q512	2SD2144S	TRANSISTOR		L304, 305	ELEXT101KA9	COIL	
Q513	UN4111	TRANSISTOR		L310	ELESN101KA	COIL	
Q514	UN4211	TRANSISTOR		L311	ELEXT4R7KA9	COIL	
Q515	2SC3311A-Q	TRANSISTOR		L312	ELEXT101KA9	COIL	
Q516	UN4115	TRANSISTOR		L313	ELEXT2R2KA9	COIL	
Q517, 518	2SC3327-A	TRANSISTOR		L401-403	ELEXT5R6KA9	COIL	
Q519, 520	2SK381CTA	TRANSISTOR		L404, 405	BLO2RN2R62T4	COIL	
Q521, 522	2SC3311A-Q	TRANSISTOR		L501	ELEXT101KA9	COIL	
Q700, 701	2SD2037DEFTA	TRANSISTOR		L601	ELEXT101KA9	COIL	(GC)
Q702	2SB1357DEFTA	TRANSISTOR		L602	ELEXT101KA9	COIL	(GC)
Q703, 704	2SD1762EF	TRANSISTOR		L603	ELEXT101KA9	COIL	(GC)
Q705	KSB564ACYGTA	TRANSISTOR					
Q801-807	UN4111	TRANSISTOR					
Q808, 809	UN4211	TRANSISTOR					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
L605	ELEXT101KA9	COIL	(GC)			JACK(S)	
L801	ELEXT101KA9	COIL					
		OSCILLATOR(S)					
X300	RSXC22M5S01T	OSCILLATOR(22.5792MHz)					
X801	RSXY6M00M01T	OSCILLATOR(6MHz)					
		DISPLAY(S)					
FL801	RSL0133-F	FL DISPLAY	△				
		SWITCH(ES)					
S801	EVQ21405R	SW, ON/FLAT					
S802	EVQ21405R	SW, SFP FIXED					
S803	EVQ21405R	SW, EQ. FIXED					
S804	EVQ21405R	SW, USER					
S805	EVQ21405R	SW, MEMO					
S806	EVQ21405R	SW, BAND					
S807	EVQ21405R	SW, SLOPE (Q)					
S808	EVQ21405R	SW, DNC					
S809	EVQ21405R	SW, V. BASS					
S810	EVQ21405R	SW, JOG MODE					
S811	EVQ21405R	SW, DISPLAY					
S812	EVQ21405R	SW, DEMO					
S816	EVQ21405R	SW, ECHO	(GC)				
S817	EVQ21405R	SW, KEY CON	(E)				
S818	EVQ21405R	SW, VOICE MUTE					
		CONNECTOR (S)					
CN601	RJU057W012	SOCKET (12P)	(GC)				
CN602	RJU057W007	SOCKET (7P)	(GC)				
CN801	RJU057W004	SOCKET (4P)					
CN802, 803	SJS50581BB	SOCKET (5P)					
CN804-807	RJU003K008M1	SOCKET (8P)					
CP601	RJT057W012-1	CONNECTOR (12P)	(GC)				
CP602	RJT057W007-1	CONNECTOR (7P)	(GC)				
CP801	RJT057W004-1	CONNECTOR (4P)					
CP802, 803	SJT30549BB1	CONNECTOR (5P)					
CP804-807	RJT003K008-1	CONNECTOR (8P)					
		EARTH TERMINAL (S)					
E201	SNE1004-1	GND PLATE					
E701, 702	SNE1004-1	GND PLATE					
		TRANSFORMER (S)					
PT701	RTP114G003	POWER TRANSFORMER	△				

Notes : * Capacity values are in microfarads (μF) 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	R349, 350	ERDS2TJ102	1/4W 1K	R534	ERDS2TJ223	1/4W 22K
R101, 102	ERDS2TJ102	1/4W 1K	R351	ERDS2TJ101	1/4W 100 (GC)	R535	ERDS2TJ391	1/4W 390
R103, 104	ERDS2TJ563	1/4W 56K	R353, 354	ERDS2TJ101	1/4W 100	R536-538	ERDS2TJ753T	1/4W 75K
R105, 106	ERDS2TJ102	1/4W 1K	R356-359	ERDS2TJ101	1/4W 100	R539	ERDS2TJ102	1/4W 1K
R107, 108	ERDS2TJ104	1/4W 100K	R360-363	ERDS2TJ102	1/4W 1K	R540	ERDS2TJ332	1/4W 3.3K
R109, 110	ERDS2TJ682T	1/4W 6.8K	R364-375	ERDS2TJ101	1/4W 100	R541, 542	ERDS2TJ563	1/4W 56K
R111, 112	ERDS2TJ224T	1/4W 220K	R376	ERDS2TJ100	1/4W 10	R543	ERDS2TJ122	1/4W 1.2K
R113, 114	ERDS2TJ682T	1/4W 6.8K	R377	ERDS2TJ101	1/4W 100 (GC)	R544	ERDS2TJ101	1/4W 100
R115, 116	ERDS2TJ224T	1/4W 220K	R378	ERDS2TJ471	1/4W 470	R545	ERDS2TJ124T	1/4W 120K
R117, 118	ERDS2TJ102	1/4W 1K	R380	ERDS2TJ101	1/4W 100	R547, 548	ERDS2TJ221	1/4W 220
R119, 120	ERDS2TJ104	1/4W 100K	R381	ERDS2TJ102	1/4W 1K	R550	ERDS2TJ222	1/4W 2.2K
R121, 122	ERDS2TJ682T	1/4W 6.8K	R382, 383	ERDS2TJ101	1/4W 100	R551, 552	ERDS2TJ122	1/4W 1.2K
R123, 124	ERDS2TJ224T	1/4W 220K	R384-386	ERDS2TJ102	1/4W 1K	R553, 554	ERDS2TJ473	1/4W 47K
R125, 126	ERDS2TJ102	1/4W 1K	R392, 393	ERDS2TJ103	1/4W 10K	R555, 556	ERDS2TJ123	1/4W 12K
R131, 132	ERDS2TJ102	1/4W 1K	R394-396	ERDS2TJ472	1/4W 4.7K	R558	ERDS2TJ102	1/4W 1K
R133, 134	ERDS2TJ104	1/4W 100K	R397, 398	ERDS2TJ223	1/4W 22K	R559	ERDS2TJ103	1/4W 10K
R151, 152	ERDS2TJ184T	1/4W 180K	R401	ERDS2TJ102	1/4W 1K	R560	ERDS2TJ563	1/4W 56K
R153, 154	ERDS2TJ271	1/4W 270	R402	ERDS2TJ473	1/4W 47K	R561	ERDS2TJ473	1/4W 47K
R155, 156	ERDS2TJ184T	1/4W 180K	R403	ERDS2TJ123	1/4W 12K	R562	ERDS2TJ823T	1/4W 82K
R157, 158	ERDS2TJ123	1/4W 12K	R405	ERDS2TJ223	1/4W 22K	R563	ERDS2TJ563	1/4W 56K
R159, 160	ERDS2TJ680T	1/4W 68	R406	ERDS2TJ102	1/4W 1K	R564	ERDS2TJ105T	1/4W 1M
R161, 162	ERDS2TJ102	1/4W 1K	R407	ERDS2TJ104	1/4W 100K	R565, 566	ERDS2TJ103	1/4W 10K
R163, 164	ERDS2TJ224T	1/4W 220K	R408	ERDS2TJ473	1/4W 47K	R567, 568	ERDS2TJ105T	1/4W 1M
R167, 168	ERDS2TJ331	1/4W 330	R409	ERDS2TJ332	1/4W 3.3K	R569	ERDS2TJ222	1/4W 2.2K
R201, 202	ERDS2TJ102	1/4W 1K	R410	ERDS2TJ102	1/4W 1K	R570	ERDS2TJ223	1/4W 22K
R203, 204	ERDS2TJ224T	1/4W 220K	R411	ERDS2TJ222	1/4W 2.2K	R571-574	ERDS2TJ224T	1/4W 220K
R205-208	ERDS2TJ562	1/4W 5.6K	R413, 414	ERDS2TJ472	1/4W 4.7K (GC)	R575	ERDS2TJ332	1/4W 3.3K
R215, 216	ERDS2TJ223	1/4W 22K	R415, 416	ERDS2TJ152	1/4W 1.5K (GC)	R576	ERDS2TJ683	1/4W 68K
R217, 218	ERDS2TJ682T	1/4W 6.8K	R417, 418	ERDS2TJ563	1/4W 56K (GC)	R577	ERDS2TJ332	1/4W 3.3K
R219, 220	ERDS2TJ101	1/4W 100	R419, 420	ERDS2TJ823T	1/4W 82K (GC)	R578	ERDS2TJ824	1/4W 820K
R221, 222	ERDS2TJ223	1/4W 22K	R421, 422	ERDS2TJ183T	1/4W 18K (GC)	R579	ERDS2TJ224T	1/4W 220K
R223, 224	ERDS2TJ222	1/4W 2.2K	R423	ERDS2TJ122	1/4W 1.2K	R580, 581	ERDS2TJ103	1/4W 10K
R301, 302	ERDS2TJ222	1/4W 2.2K	R424	ERDS2TJ823T	1/4W 82K (GC)	R582	ERDS2TJ224T	1/4W 220K
R303	ERDS1FVJ820T	1/2W 82 Δ	R447, 448	ERDS2TJ103	1/4W 10K (E)	R583, 584	ERDS2TJ103	1/4W 10K
R306	ERDS2TJ560T	1/4W 56	R500	ERDS2TJ104	1/4W 100K	R585, 586	ERDS2TJ153	1/4W 15K (E)
R307, 308	ERDS2TJ101	1/4W 100	R501	ERDS2TJ100	1/4W 10	R585, 586	ERDS2TJ562	1/4W 5.6K (GC)
R309	ERDS2TJ100	1/4W 10	R502	ERDS2TJ181T	1/4W 180	R587-590	ERDS2TJ103	1/4W 10K
R310	ERDS2TJ222	1/4W 2.2K	R503	ERDS2TJ102	1/4W 1K	R591, 592	ERDS2TJ561	1/4W 560
R311	ERDS2TJ100	1/4W 10	R505-508	ERDS2TJ472	1/4W 4.7K	R593, 594	ERDS2TJ563	1/4W 56K
R312	ERDS2EJ121	1/4W 120	R509, 510	ERDS2TJ122	1/4W 1.2K	R595, 596	ERDS2TJ102	1/4W 1K
R313	ERDS2TJ180T	1/4W 18	R511-514	ERDS2TJ222	1/4W 2.2K	R597	ERDS2TJ104	1/4W 100K
R315	ERDS2TJ183T	1/4W 18K	R515, 516	ERDS2TJ182	1/4W 1.8K	R598	ERDS2TJ182	1/4W 1.8K
R316	ERDS2TJ224T	1/4W 220K	R517, 518	ERDS2TJ391	1/4W 390	R599	ERDS2TJ223	1/4W 22K
R317	ERDS2TJ102	1/4W 1K	R519-522	ERDS2TJ102	1/4W 1K	R601, 602	ERDS2TJ100	1/4W 10 (GC)
R324	ERDS2TJ271	1/4W 270	R523, 524	ERDS2TJ104	1/4W 100K	R605	ERDS2TJ100	1/4W 10 (GC)
R329-343	ERDS2TJ102	1/4W 1K	R525-528	ERDS2TJ472	1/4W 4.7K	R606	ERDS2TJ102	1/4W 1K (GC)
R345	ERDS2TJ102	1/4W 1K (E)	R529, 530	ERDS2TJ473	1/4W 47K	R607	ERDS2TJ391	1/4W 390 (GC)
R346, 347	ERDS2TJ102	1/4W 1K	R531, 532	ERDS2TJ102	1/4W 1K	R608	ERDS2TJ391	1/4W 390 (GC)
			R533	ERDS2TJ123	1/4W 12K	R609	ERDS2TJ103	1/4W 10K (GC)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R610	ERDS2TJ102	1/4W 1K (GC)	C121, 122	ECEA1HKA3R3B	50V 3. 3U	C408	ECBT1H181KB5	50V 180P
R611, 612	ERDS2TJ823T	1/4W 82K (GC)	C123, 124	ECBT1H221KB5	50V 220P	C409	ECEA1CKA100B	16V 10U
R701, 702	ERD2FCVJ4R7T	1/4W 4. 7 Δ	C125, 126	ECFR1E223KR	25V 0. 022U	C411, 412	ECBT1E223ZF	25V 0. 022U
R703	ERDS2TJ391	1/4W 390	C127, 128	ECFR1H682KR	50V 6800P	C413	ECEA1HKA3R3B	50V 3. 3U
R704	ERDS2TJ821	1/4W 820	C129, 130	ECEA1AKA330B	10V 33U	C414	ECBT1E103ZF	25V 0. 01U
R705	ERD2FCVJ4R7T	1/4W 4. 7 Δ	C131, 132	ECBT1H102KB5	50V 1000P	C415, 416	ECEA1CKA100B	16V 10U (GC)
R706	ERDS2TJ102	1/4W 1K	C133, 134	ECEA1HKA3R3B	50V 3. 3U	C417, 418	ECBT1C472KR5	16V 4700P (GC)
R707	ERDS2TJ331	1/4W 330	C135, 136	ECEA1CKA101B	16V 100U	C419, 420	ECBT1E223ZF	25V 0. 022U (GC)
R708	ERDS2TJ471	1/4W 470	C153, 154	ECQV1H224JM3	50V 0. 22U	C421	ECBT1H102KB5	50V 1000P
R709-711	ERX1SJ3R9E	1W 3. 9	C201, 202	ECEA1CKA100B	16V 10U	C422	ECBT1H391KB5	50V 390P
R713, 714	ERDS2TJR47T	1/4W 0. 47	C203, 204	ECBT1H300J5	50V 30P	C501	ECBT1E223ZF	25V 0. 022U
R715	ERD25FJ6R8	1/4W 6. 8 Δ	C205, 206	ECBT1H101KB5	50V 100P	C502	ECQV1H104JM3	50V 0. 1U
R716	ERDS2TJ561	1/4W 560	C207, 208	ECEA1CKA100B	16V 10U	C503	ECEAOJKA331Q	6. 3V 330U
R717	ERDS2TJ332	1/4W 3. 3K	C209, 210	ECBT1E223ZF	25V 0. 022U	C504	ECEAOJKA221B	6. 3V 220U
R718, 719	ERDS2TJ101	1/4W 100 Δ	C211, 212	ECBT1C682KR5	16V 6800P	C505	ECBT1H102KB5	50V 1000P
R720	ERDS2TJ100	1/4W 10	C251, 252	ECBT1E103ZF	25V 0. 01U	C506	ECQV1H104JM3	50V 0. 1U
R721	ERD25FVJ3R9T	1/4W 3. 9 Δ	C253	ECBT1E223ZF	25V 0. 022U	C507	ECBT1H1042F5	50V 0. 1U
R722	ERD25FJ102	1/4W 1K Δ	C301, 302	ECBT1H102KB5	50V 1000P	C508	ECEA1CKA470B	16V 47U
R725	ERDS2TJ103	1/4W 10K	C303	ECEA1CKA100B	16V 10U	C510	ECBT1C103NS5	16V 0. 01U
R726	ERDS2TJ562	1/4W 5. 6K	C304	ECBT1E223ZF	25V 0. 022U	C511, 512	ECKR1H392KB5	50V 3900P
R727	ERDS2TJ100	1/4W 10	C305	ECEA1CKA100B	16V 10U	C513, 514	ECBA1H681KB5	50V 680P
R728	ERDS2TJ470	1/4W 47	C306-308	ECBT1E223ZF	25V 0. 022U	C515, 516	ECEA1AKA330B	10V 33U
R801	ERDS2TJ122	1/4W 1. 2K	C309	ECEAOJKA101B	6. 3V 100U	C519, 520	ECEAOJKA101B	6. 3V 100U
R802, 803	ERDS2TJ103	1/4W 10K	C310	ECBT1E103ZF	25V 0. 01U	C521, 522	ECBT1E223ZF	25V 0. 022U
R804-810	ERDS2TJ104	1/4W 100K	C312	ECEAOJKA101B	6. 3V 100U	C523, 524	ECEA1HKAR47B	50V 0. 47U
R811, 812	ERDS2TJ153	1/4W 15K	C313	ECBT1E223ZF	25V 0. 022U	C525, 526	ECBT1H101KB5	50V 100P
R813-822	ERDS2TJ104	1/4W 100K	C314	ECEA1CKA100B	16V 10U	C527-530	ECQV1H334JM3	50V 0. 33U
R823, 824	ERDS2TJ102	1/4W 1K	C315, 316	ECEA1HKA010B	50V 1U	C531, 532	ECQB1H393JF3	50V 0. 039U
R826, 827	ERDS2TJ821	1/4W 820	C317	ECBT1E223ZF	25V 0. 022U	C533	ECQV1H274JM3	50V 0. 27U
R829	ERDS2TJ473	1/4W 47K	C318	ECEA1HKA010B	50V 1U	C534	ECQB1H223JF3	50V 0. 022U
R830	ERDS2TJ123	1/4W 12K	C319	ECBT1H102KB5	50V 1000P	C535	ECFR1E272KR	25V 2700P
R831	ERDS2TJ562	1/4W 5. 6K	C320	ECBT1E223ZF	25V 0. 022U	C536, 537	ECQV1H224JM3	50V 0. 22U
R832	ERDS2TJ332	1/4W 3. 3K	C326	ECBT1H102KB5	50V 1000P	C538	ECBA1H681KB5	50V 680P
R833	ERDS2TJ222	1/4W 2. 2K	C327	ECBT1E223ZF	25V 0. 022U	C539, 540	ECBT1E223ZF	25V 0. 022U
R834	ERDS2TJ103	1/4W 10K	C345	ECEAOJKA221B	6. 3V 220U	C543	ECEA1CKA100B	16V 10U
R902, 903	ERDS2TJ471	1/4W 470	C346	ECBT1E223ZF	25V 0. 022U	C549	ECKD1H332KB	50V 3300P
R904	ERDS2TJ393	1/4W 39K	C348	ECKT1H223ZF	50V 0. 022U	C550, 551	ECQV1H124JM3	50V 0. 12U
R905	ERDS2TJ222	1/4W 2. 2K	C349	ECBT1E223ZF	25V 0. 022U	C552	ECEA1HKA4R7B	50V 4. 7U
R906	ERDS2TJ152	1/4W 1. 5K	C350	ECBT1H150J5	50V 15P	C553	ECEA1HKAR33B	50V 0. 33U
R907	ERDS1FVJ680T	1/2W 68 Δ	C351	ECBT1H200J5	50V 20P	C554	ECFR1E103KR	25V 0. 01U
R908	ERDS1FVJ820T	1/2W 82 Δ	C352	ECBT1H102KB5	50V 1000P	C555, 556	ECEA1CKA470B	16V 47U
R910	ERDS2TJ102	1/4W 1K	C353	ECBT1E223ZF	25V 0. 022U	C557	ECEA1CKA100B	16V 10U
R911	ERDS2TJ392T	1/4W 3. 9K	C354	ECBT1H300J5	50V 30P	C558	ECEA1HKA010B	50V 1U
R912, 913	ERDS2TJ470	1/4W 47	C361	ECBT1H1042F5	50V 0. 1U	C559, 560	ECEA1CKA100B	16V 10U
R914	ERDS1FVJ820T	1/2W 82 Δ	C381	ECBT1E223ZF	25V 0. 022U	C561	ECBT1H100J5	50V 10P
R915, 916	ERDS2TJ471	1/4W 470	C382, 383	ECBT1H101KB5	50V 100P	C562	ECFR1E563KR	25V 0. 056U
R918, 919	ERDS2TJ470	1/4W 47	C401	ECBT1H102KB5	50V 1000P	C563, 564	ECFR1E273KR	25V 0. 027U
R920	ERDS2TJ393	1/4W 39K	C403	ECEA1HKS3R3B	50V 3. 3U	C565	ECBT1H471KB5	50V 470P
			C404	ECBT1H102KB5	50V 1000P	C567, 568	ECBT1H471KB5	50V 470P
		CAPACITORS	C405	ECBT1C222KR5	16V 2200P	C569, 570	ECBA1H681KB5	50V 680P
C101-112	ECBT1H101KB5	50V 100P	C406	ECEA1CKS100L	16V 10U	C571-574	ECEA1CKA100B	16V 10U
C117, 118	ECBT1C152KR5	16V 1500P	C407	ECEA1HKS3R3B	50V 3. 3U	C575, 576	ECFR1E683KR	25V 0. 068U

■ CABINET PARTS LOCATION

