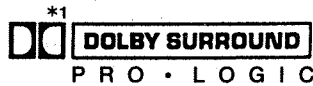


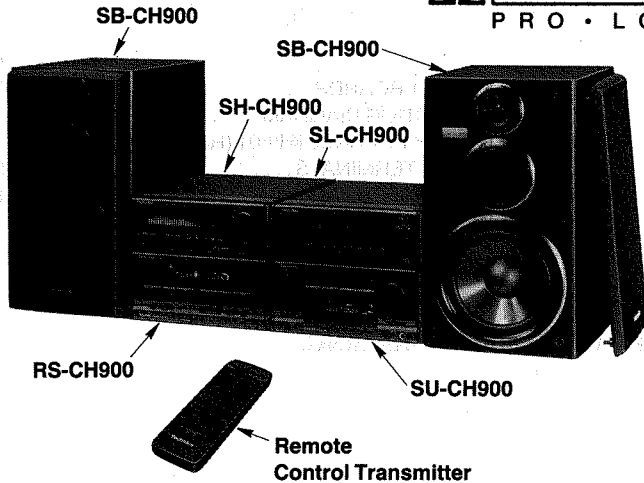
Service Manual

Sound Processor



Sound Processor

SH-CH900



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)

System: SC-CH900

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

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 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)
	90 dB (IHF, at full scale input, IHF A)
CD, DAT, VDP	93 dB
Key control	-300~+300 cent
Mic echo	0.2-1.6 sec
Video output	
MONITOR	1 Vpp/75Ω
VCR REC OUT	1 Vpp/75Ω

■ GENERAL

Dimensions (W×H×D)	230×83×292 mm
Weight	1.95 kg

Notes:

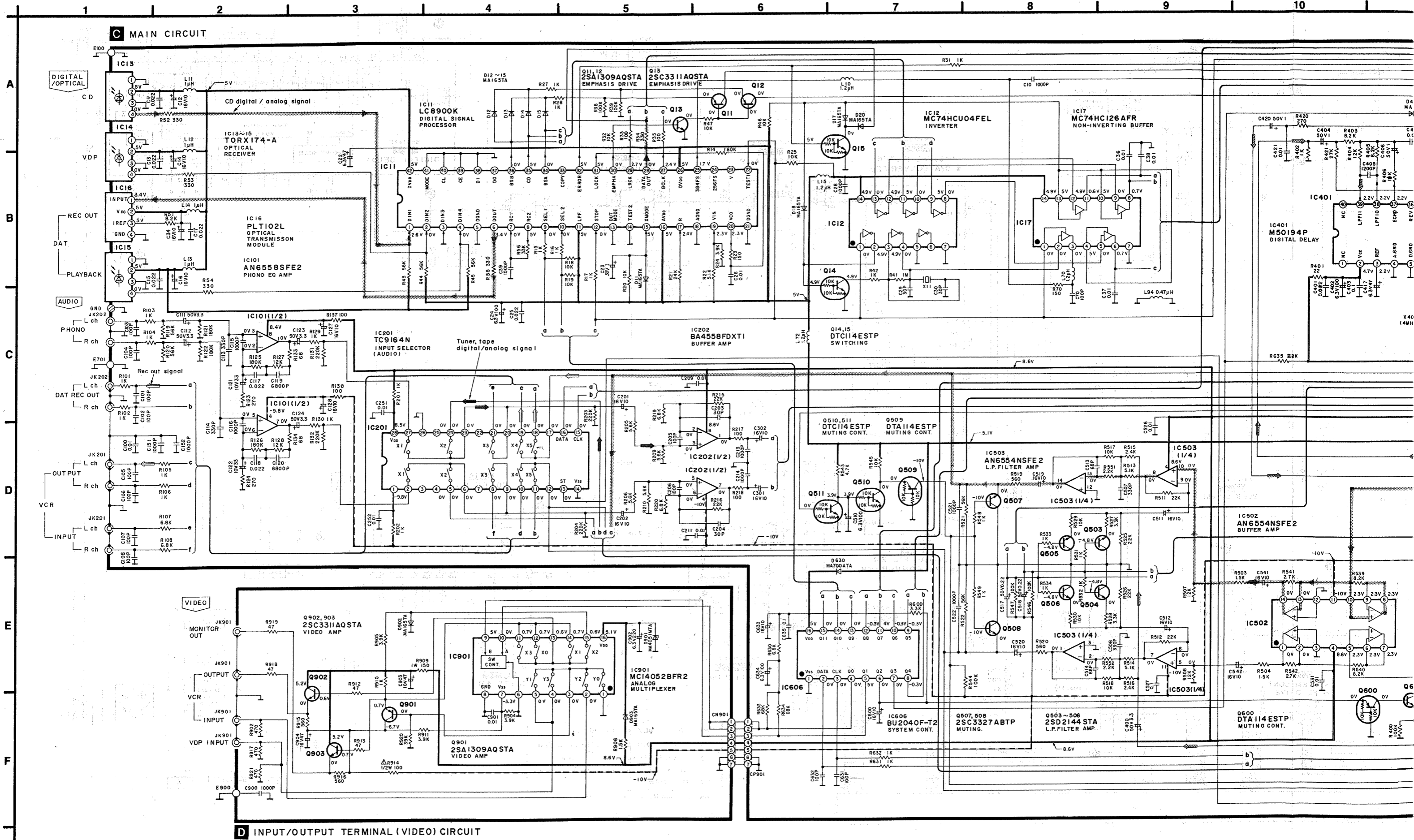
1. Specifications are subject to change without notice.
2. Weight and dimensions shown are approximate.
3. Total harmonic distortion is measured by the digital spectrum analyzer.

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

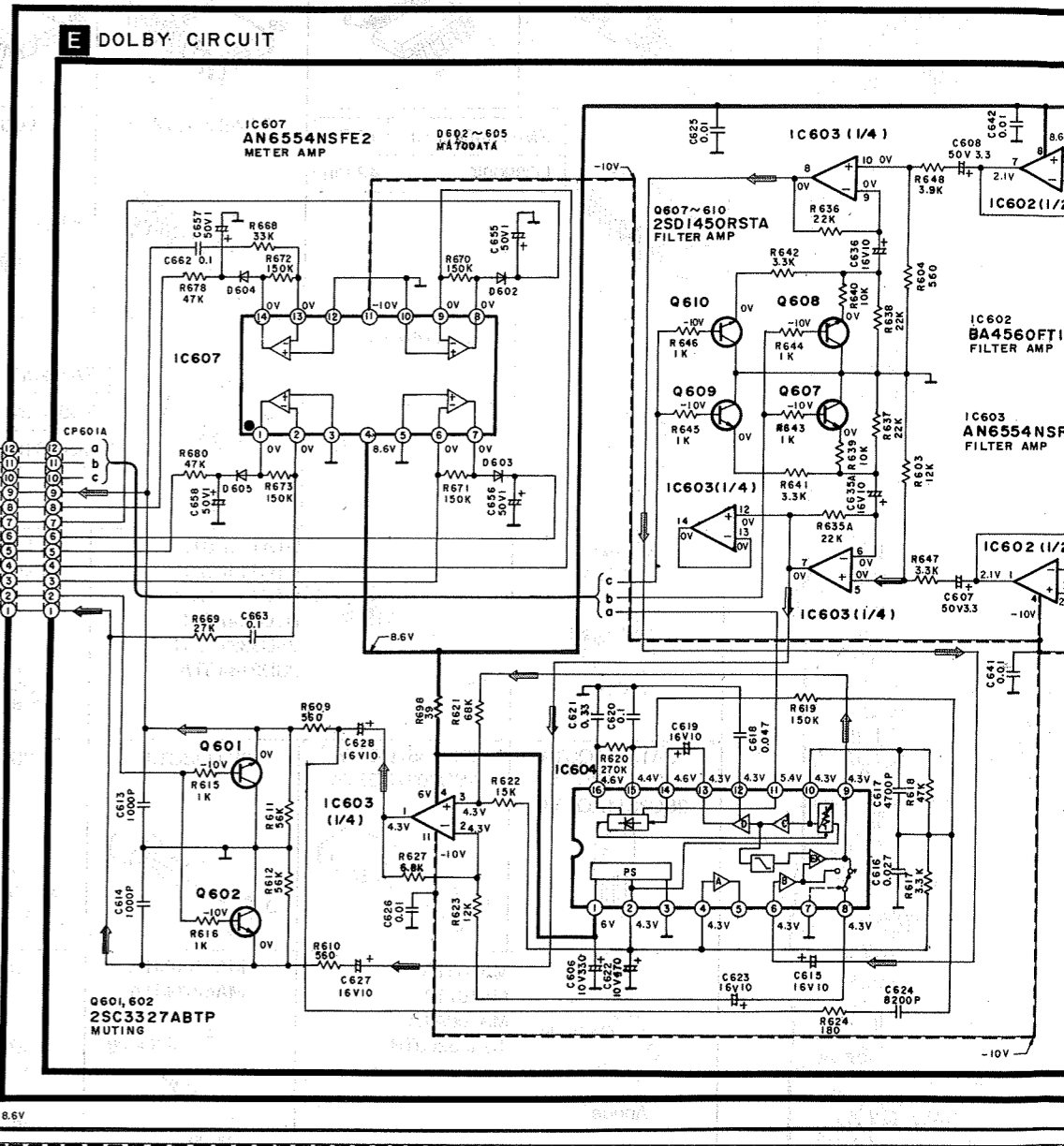
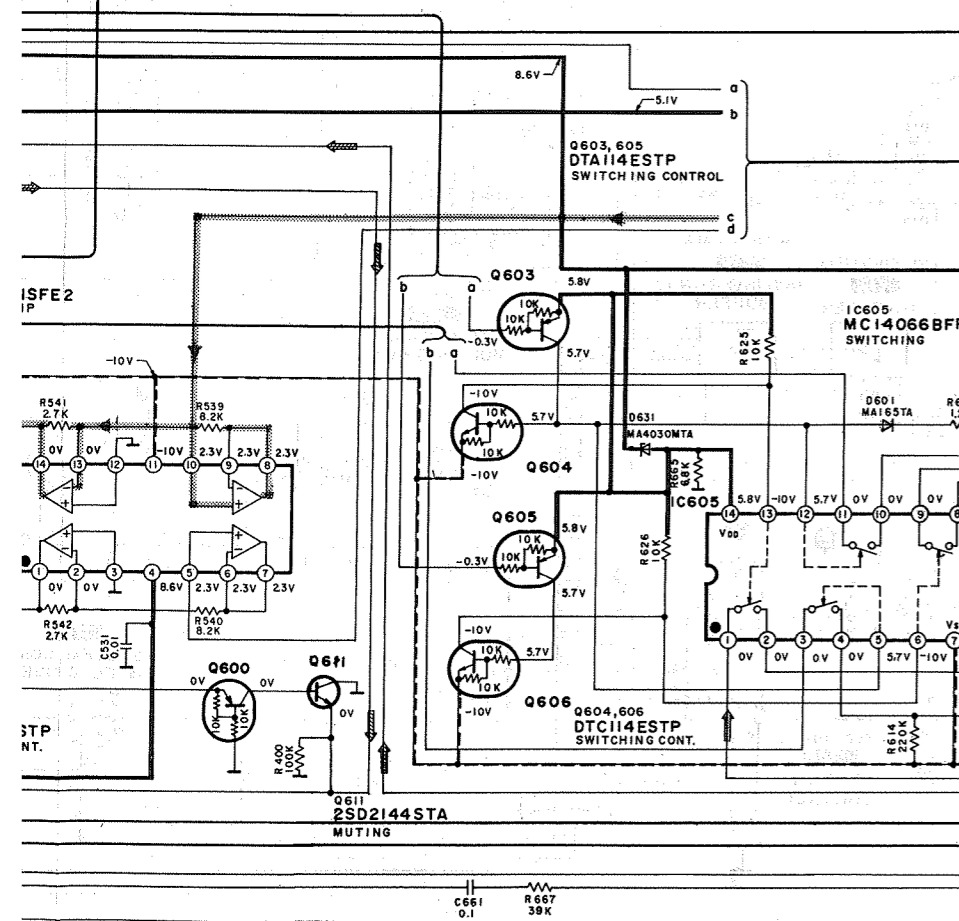
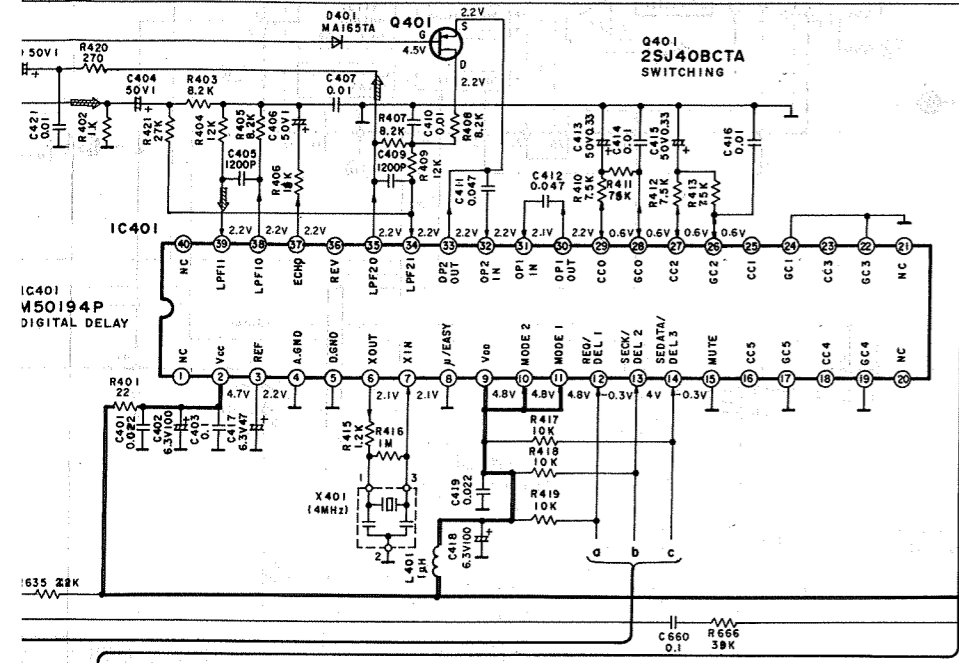
*(E) area...Made in PAES

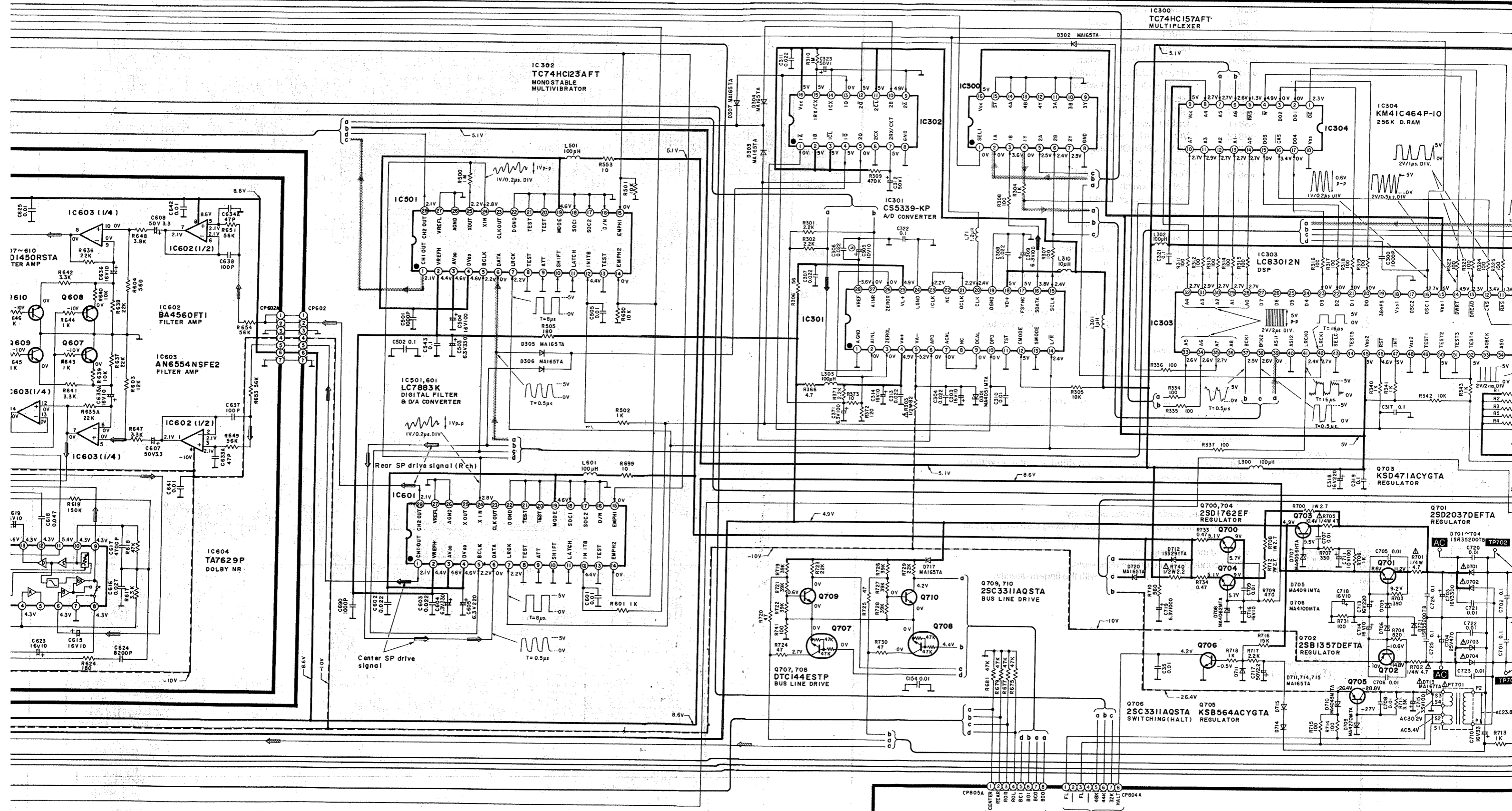
Technics

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

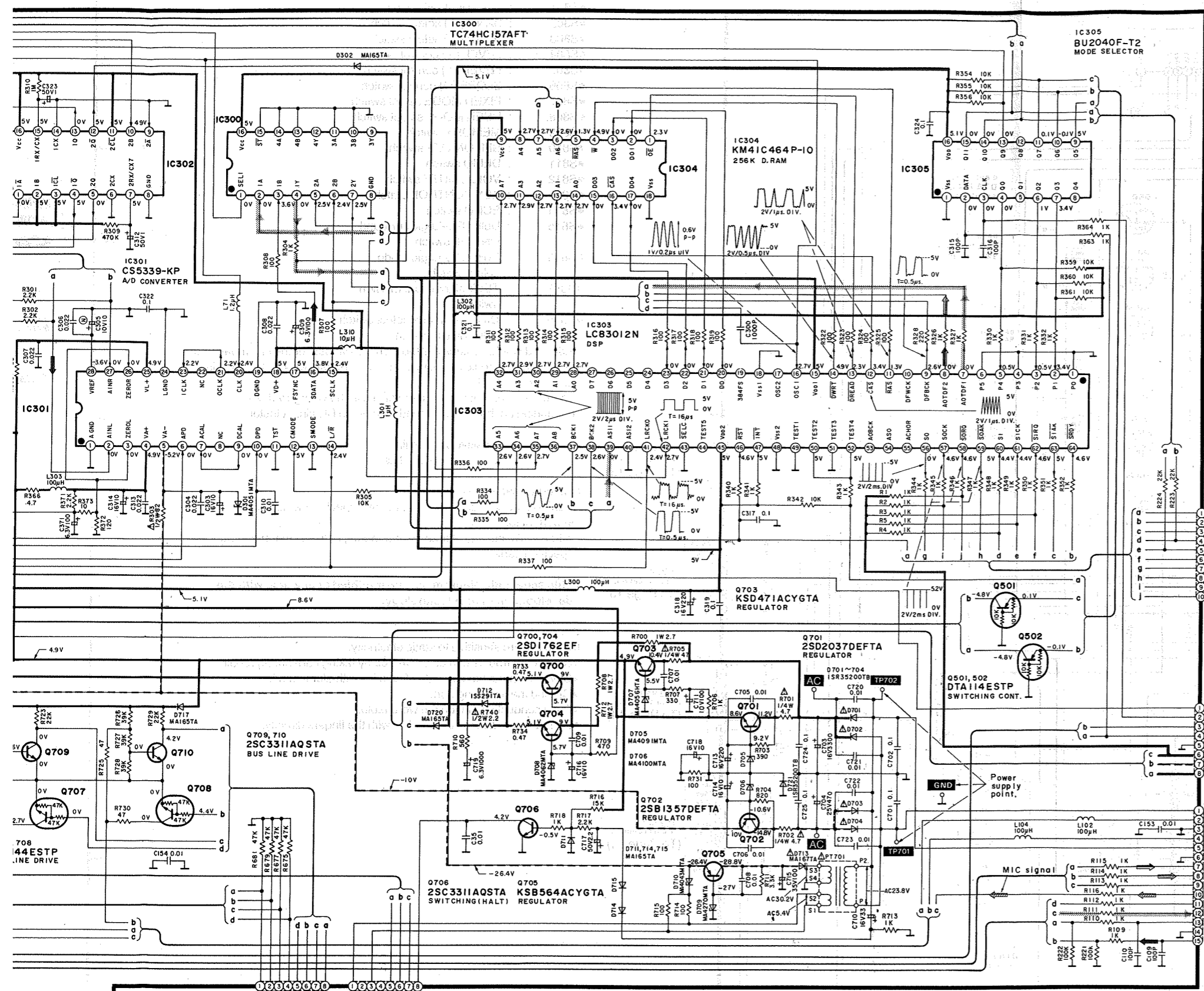


10 11 12 13 14 15 16 17 18 19 20





To FL CIRCUIT (CP805) To FL CIRCUIT (CP804)
 (To Page 16) (To Page 16)



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)

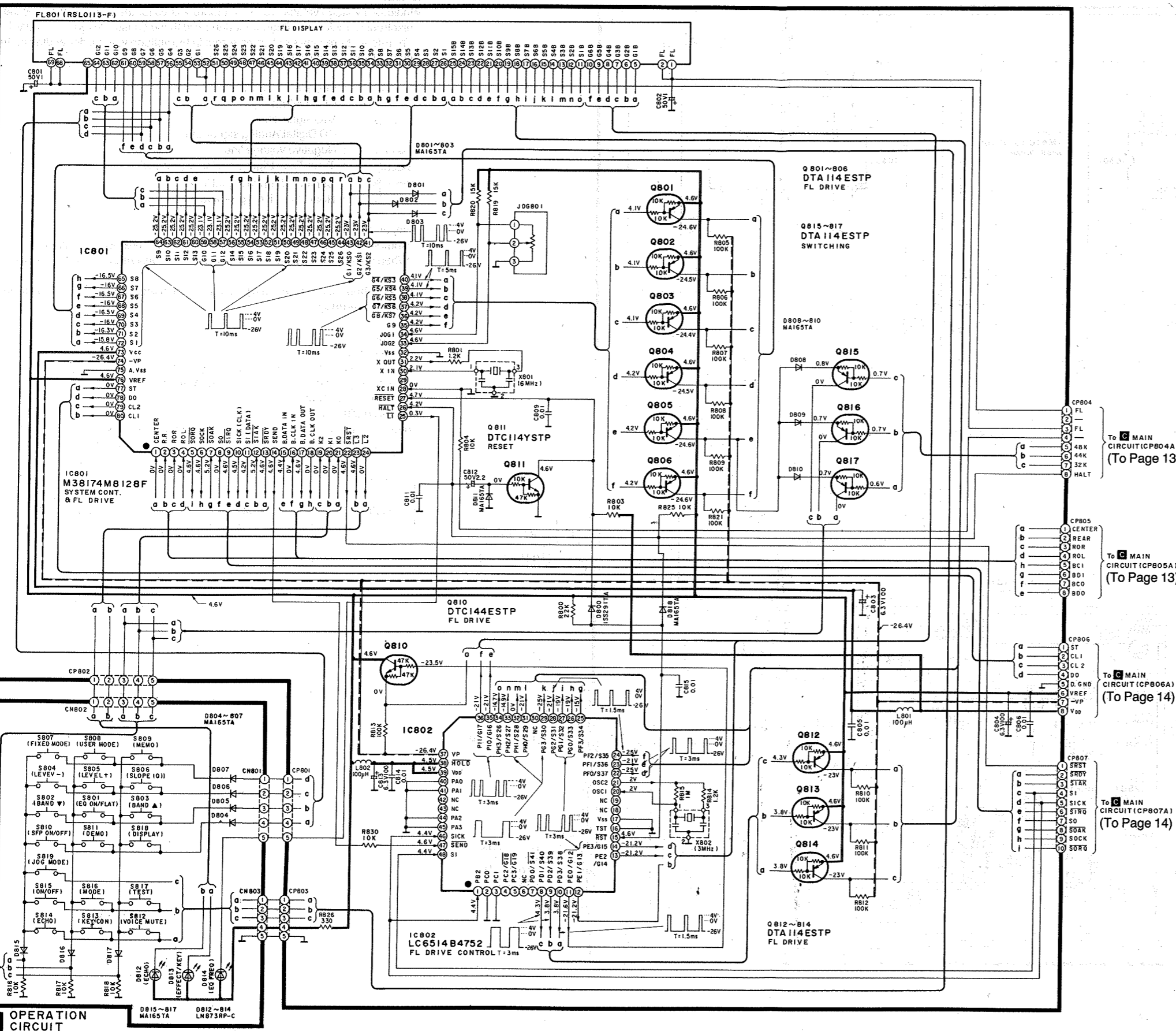
To SU-CH900/
RS-CH900
(To JK1/
JK201)

To FL CIRCUIT (CPB05)
(To Page 16)

To FL CIRCUIT (CPB04)
(To Page 16)

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

A FL CIRCUIT



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

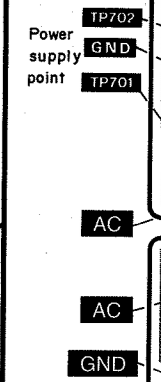
Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

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

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A
B
C
D
E
F