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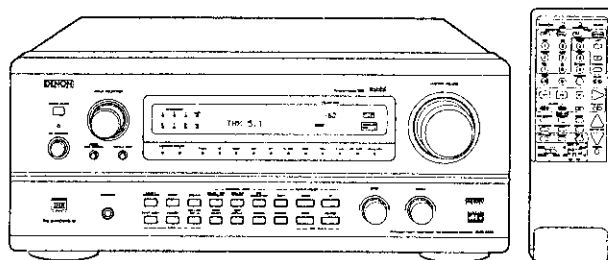
Hi-Fi Component

SERVICE MANUAL

MODEL AVR-4800

MODEL AVC-A10SE

AV SURROUND RECEIVER / AMPLIFIER



— TABLE OF CONTENTS —

SAFETY PRECAUTIONS	2	(3/17) 1U-3275-1 TONE PREOUT UNIT	89
SPECIFICATIONS	2	(4/17) 1U-3288-1 DSP UNIT (1/3)	90
WIRE ARRANGEMENT	3	(5/17) 1U-3288-1 DSP UNIT (2/3)	91
DISASSEMBLY	4-7	(6/17) 1U-3288-1 DSP UNIT (3/3)	92
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK	8,9	(7/17) 1U-3274-1 D/A UNIT	93
LEVEL DIAGRAMS	10-12	(8/17) 1U-3126-2 AMP UNIT	94
ADJUSTMENT	13,14	(9/17) 1U-3124-2 SP UNIT-1/1U-3124-3 SP UNIT-2 1U-3124-4 H/P UNIT	95
SEMICONDUCTORS	14-37	(10/17) 1U-3127-2 DIGI REG UNIT/1U-3127-3 CONNECT UNIT	96
PRINTED WIRING BOARDS	38-55	(11/17) 1U-3126-3 PRE REG UNIT	96
NOTE FOR PARTS LIST	56	(12/17) 1U-3128-1 RECTIFIER UNIT/1U-3128-2 PRIMARY UNIT 1U-3128-3 COMP UNIT/1U-3128-4 MULTI IR UNIT	97
PARTS LIST OF P.W.B. UNIT ASS'Y	56-81	(13/17) 1U-3125-1 S-VIDEO UNIT/1U-3125-2 C-VIDEO UNIT	98
EXPLODED VIEW	82	(14/17) 1U-3125-3 FLD UNIT/1U-3125-4 MASTER VR UNIT	99
PARTS LIST OF EXPLODED VIEW	83	(15/17) 1U-3275-2 TACT SW UNIT/1U-3275-3 REMOCON UNIT 1U-3275-4 POWER SW UNIT/1U-3275-5 SIGNAL UNIT 1U-3275-6 POWER SW-2 UNIT/1U-3275-7 COAX UNIT ...	100
PACKING VIEW	84	(16/17) 1U-3127-1 MAIN UNIT	101
PARTS LIST OF PACKING & ACCESSORIES	84	(17/17) 1U-3126-1 TUNER UNIT	102
BLOCK DIAGRAM	85		
WIRING DIAGRAM	86		
SCHEMATIC DIAGRAMS	87-102		
(1/17) 1U-3124-1 AUDIO IN UNIT	87		
(2/17) 1U-3254-1 EXT IN, VR UNIT	88		

● Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

Audio Section

Power Amplifier	Stereo
Rated output: (All properties shown are only for the power amplifier stage.)	(2ch driven): 125 W + 125 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 130 W + 130 W (8 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Dynamic Power:	Surround: 125 W x 5 ch (8 Ω/ohms, 1 kHz with 0.7 % T.H.D.) 170 W x 2 ch (8 Ω/ohms), 270 W x 2 ch (4 Ω/ohms), 350 W x 2 ch (2 Ω/ohms)
Output terminals:	Front/Center: 6 - 16 Ω/ohms Surround: A or B 6 - 16 Ω/ohms, A + B 8 - 16 Ω/ohms

Analog

Input sensitivity/Input Impedance:	200 mV/47 kΩ/ohms
Frequency response:	10 Hz - 100 kHz: +0, -3 dB (DIRECT mode)
S/N:	105 dB (DIRECT mode)
Distortion:	0.005 % (20 Hz ~ 20 kHz)(DIRECT mode)
Rated output/Maximum output:	1.2 V/8 V

Digital

D/A output:	Rated output - 2 V (at 0 dB playback) Total harmonic distortion - 0.005 % (1 kHz, at 0 dB) S/N ratio - 105 dB Dynamic range - 96 dB
Digital Input:	Format - Digital audio interface

Phono equalizer (PHONO Input-REC OUT)

Input sensitivity:	2.5 mV
RIAA deviation:	±1 dB (20 Hz ~ 20 kHz)
Signal-to-noise ratio:	74 dB (A weighting, with 5 mV input)
Rated output/Maximum output:	150 mV/8 V
Distortion:	0.03 % (1 kHz, 3 V)

Video Section

Standard Video Jacks

Input/output level and impedance:	1 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz - 10 MHz: +0, -3 dB

S-Video Jacks

Input/output level and impedance:	Y (brightness) signal - 1 Vp-p, 75 Ω/ohms C (color) signal - 0.286 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz - 10 MHz: +0, -3 dB

Color component video terminal

Input/output level and impedance:	Y (brightness) signal - 1 Vp-p, 75 Ω/ohms Cb (blue) signal - 0.7 Vp-p, 75 Ω/ohms Cr (red) signal - 0.7 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz - 20 MHz: +0, -3 dB

Tuner section (AVR-4800 only)

Receiving range:	[FM] (note: μV at 75 Ω/ohms, 0 dBf = 1×10^{-11} W), [AM] 87.5 MHz-107.9 MHz(U.S.A. and Canada models), 87.5 MHz-106.0 MHz(Europe, Asia, China and Taiwan R.O.C. models) 520 kHz-1710 kHz(U.S.A. and Canada models), 522kHz-1611 kHz(Europe, Asia, China and Taiwan R.O.C. models)
Usable sensitivity:	1.0 μV (11.2 dBf) 19μV
50 dB quieting sensitivity:	MONO: 1.5 μV (15.3 dBf) STEREO: 23 μV (38.5 dBf)
Signal-to-noise ratio(IHF-A):	MONO: 80 dB STEREO: 75 dB
Total harmonic distortion(at 1kHz):	MONO: 0.15 % STEREO: 0.3 %

General

Power supply:	AC120 V, 60 Hz (U.S.A., Canada and Taiwan R.O.C. models) AC230 V, 50 Hz (Europe model), AC220 V, 50 Hz (China model)
Power Consumption:	10.9 A (U.S.A. and Canada models), 690 W (Europe, Asia and China models), 620W (Taiwan R.O.C. model)
Maximum external dimensions:	434 (W) x 181 (H) x 494 (D) mm (17-3/32" x 7-1/8" x 19-29/64")
Mass:	21.5 kg (47 lbs, 6 oz)

Remote control unit (RC-869)

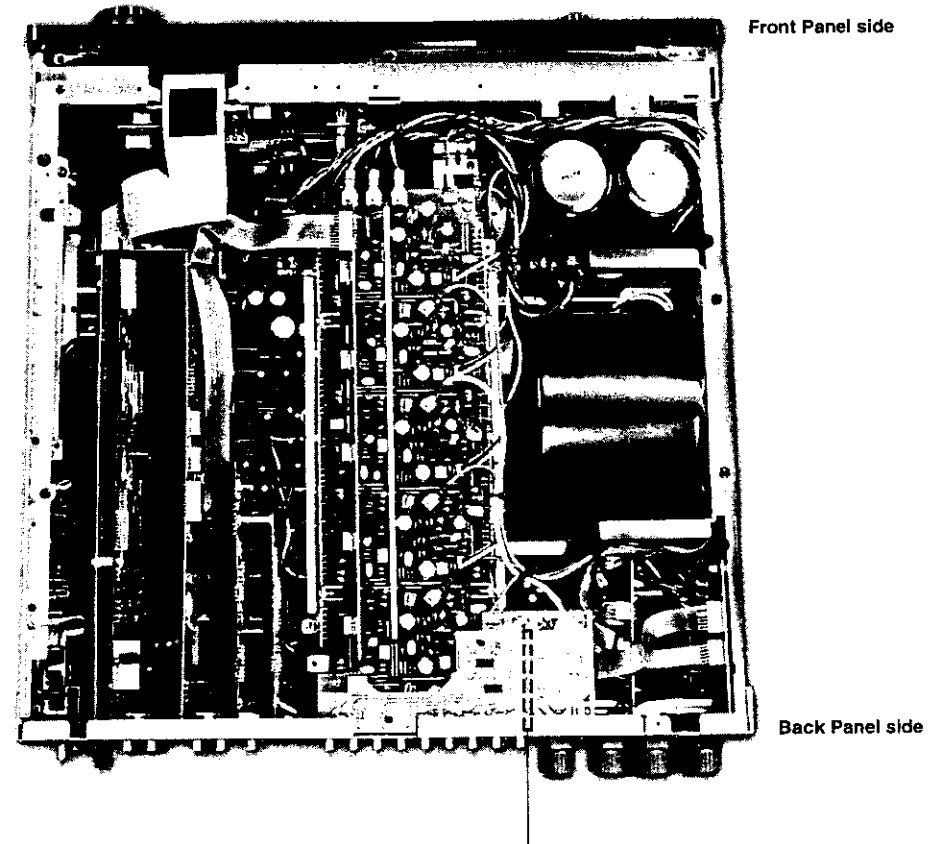
Batteries:	R6P/AA Type (two batteries)
External dimensions:	70(W) x 215 (H) x 24 (D) mm (2-3/4" x 8-15/32" x 15/16")
Mass:	200 g (Approx. 7 oz) (including batteries)

*For purposes of improvement, specification and design are subject to change without notice.

WIRE ARRANGEMENT

If wire bundles are untied or moved to perform adjustment or parts replacement etc., be sure to rearrange them neatly as they were originally bundled or placed afterward. Otherwise, incorrect arrangement can be a cause of noise generation.

Wire arrangement viewed from the top



Note:

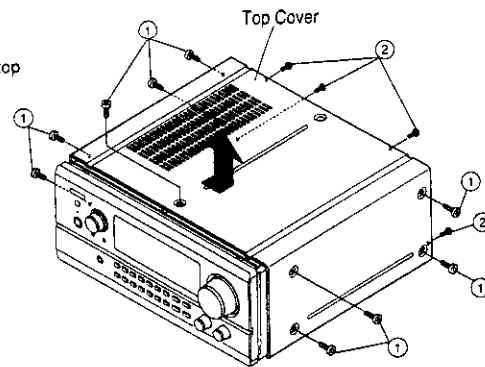
To avoid touching to the primary circuit, be sure to pass through 3 ribbon wires arranged by the Back Panel (wires connecting to the Comp. Video P.W.B., Multi IR P.W.B., and SP 1 P.W.B.) on the component side of the Multi IR P.W.B.

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

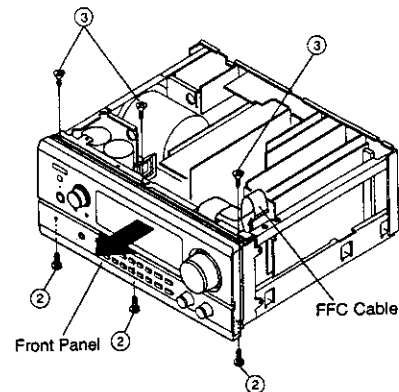
Top Cover

- (1) Remove 9 screws ① on both sides and on the top.
- (2) Remove 4 screws ② on the rear and detach the top cover by sliding to the arrow direction.



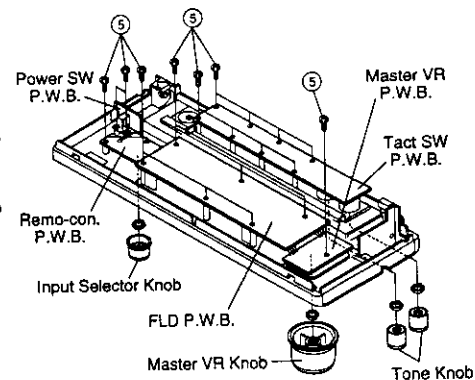
Front Panel

- (1) Disconnect the FFC from its connector.
- (2) Remove 3 screws ② and 3 screws ③ fixing the front panel at its top and bottom edges, then detach it to the arrow direction.



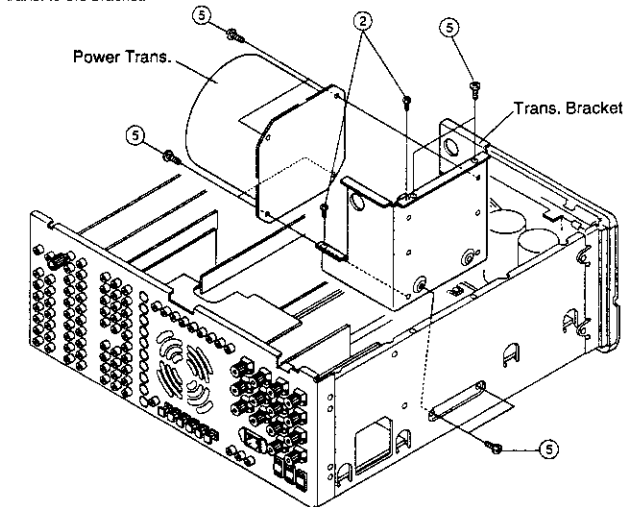
P.W.B.'s on Front Panel

- (1) FLD, Master VR P.W.B.
Remove 7 screws ⑤ after taking off the nut and knob for the master volume.
- (2) Tact SW P.W.B.
Remove 8 screws ⑤ after taking off the nuts and knobs for the tone volumes.
- (3) Remo-con. P.W.B.
Remove 2 screws ⑤ after taking off the nut and knob for the input selector.
- (4) Power SW P.W.B.
Remove 2 screws ⑤.



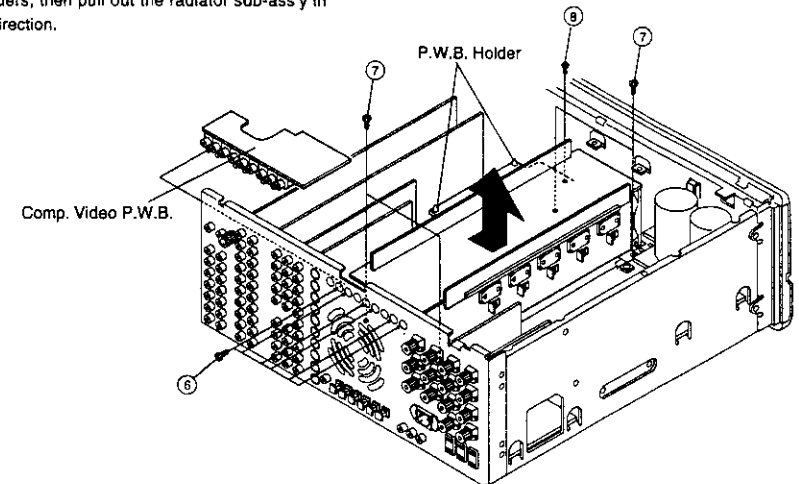
Power Trans.

- (1) Remove 4 screws ⑤ and 2 screws ② fixing the trans. bracket to the chassis.
- (2) Pull out the power trans. upward.
- (3) Remove 4 screws ⑤ fixing the power trans. to the bracket.



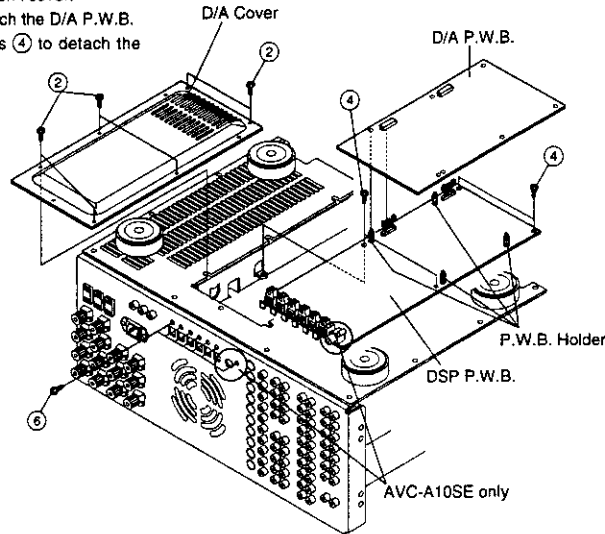
Power Radiator Unit

- (1) Remove 6 screws ⑥ to detach the comp. video P.W.B.
- (2) Remove 4 screws ⑦ and 1 screw ⑧, and release 2 P.W.B. holders, then pull out the radiator sub-ass'y in the arrow direction.



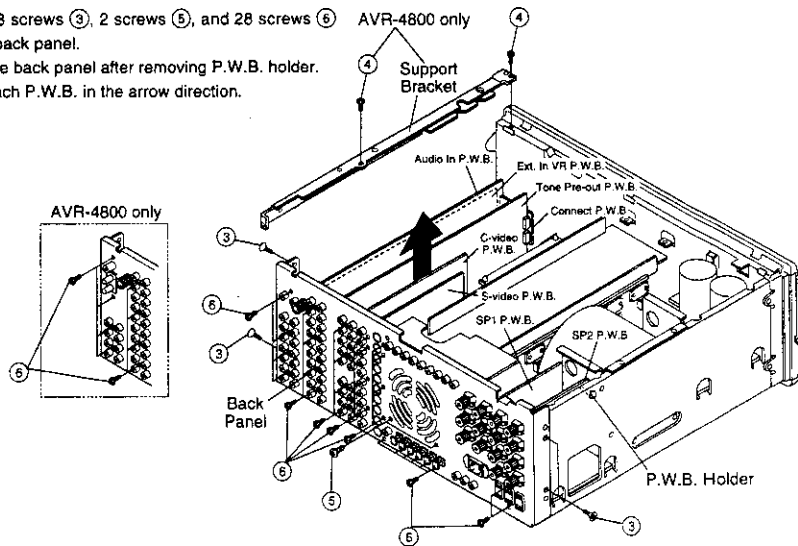
DSP, D/A P.W.B.

- (1) Remove 6 screws ② to detach the D/A cover.
- (2) Release 4 P.W.B. holders, and detach the D/A P.W.B.
- (3) Remove 7 screws ⑥ and 4 screws ④ to detach the DSP P.W.B.



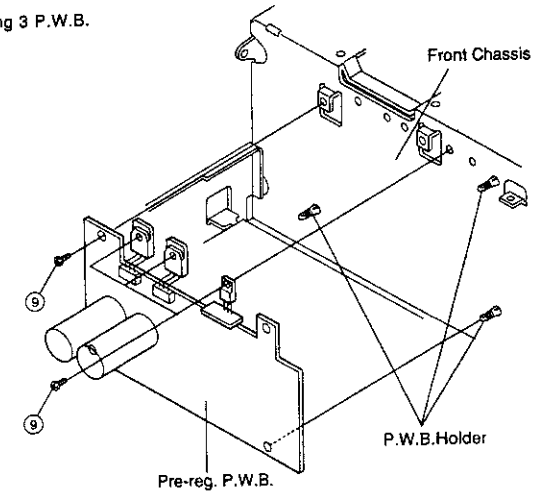
P.W.B.'s on Back Panel

- (1) Remove 1 screw ③ and 2 screws ④ fixing support bracket.
- (2) Remove 3 screws ③, 2 screws ⑤, and 28 screws ⑥ from the back panel.
- (3) Detach the back panel after removing P.W.B. holder.
- (4) Pull up each P.W.B. in the arrow direction.



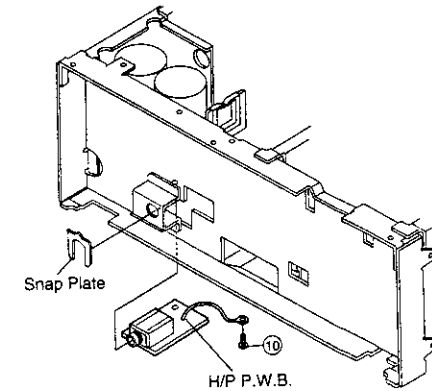
Pre-reg. P.W.B.

- (1) Remove 4 screws ⑨ fixing the Pre-reg. P.W.B. and transistors.
- (2) Detach the Pre-reg. P.W.B. after releasing 3 P.W.B. holders.



H/P P.W.B.

- (1) Remove the bottom cover.
- (2) Remove 1 screw ⑩ fixing the wire from the H/P P.W.B.
- (3) Remove the snap plate to detach the H/P P.W.B.

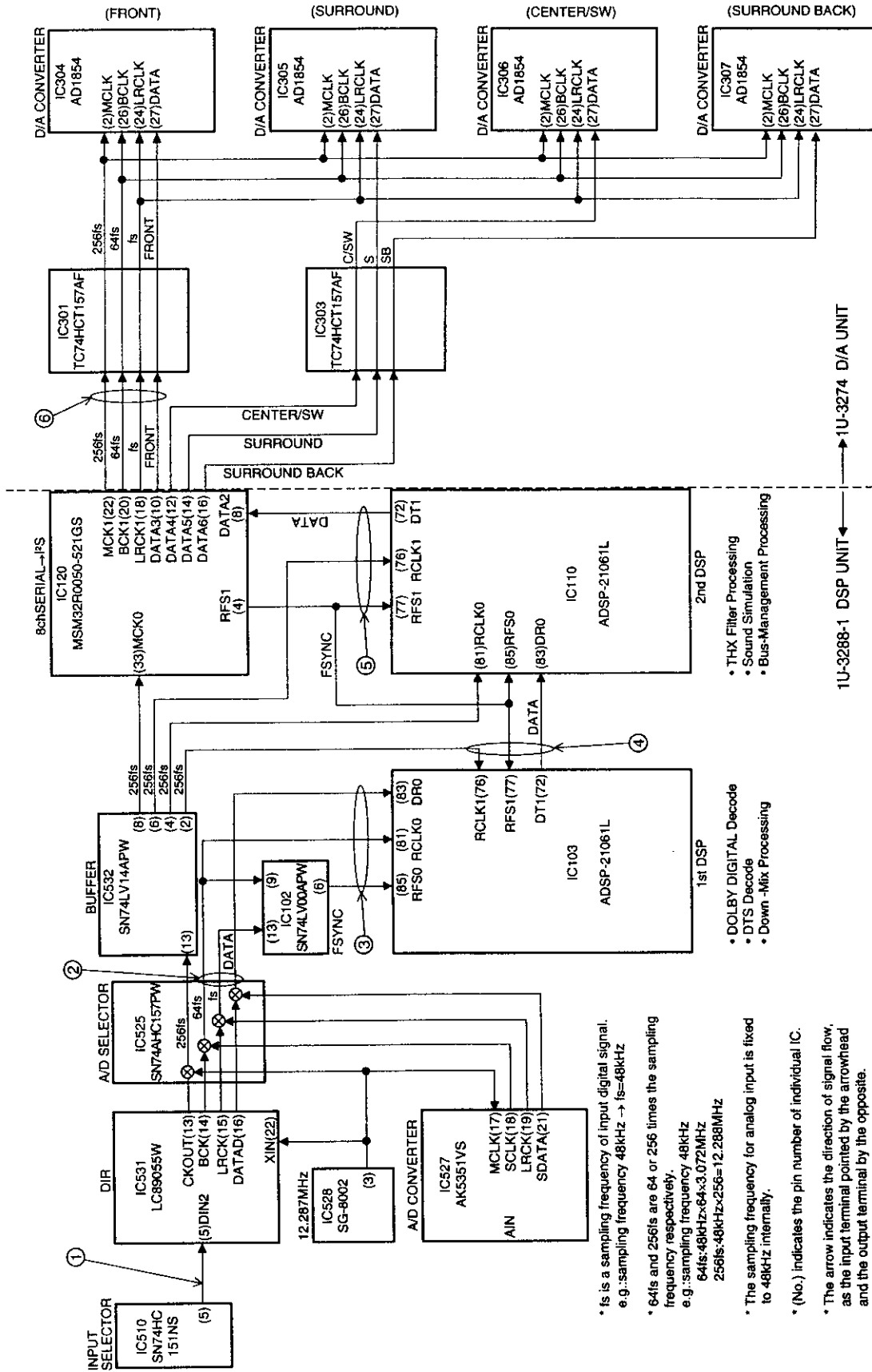


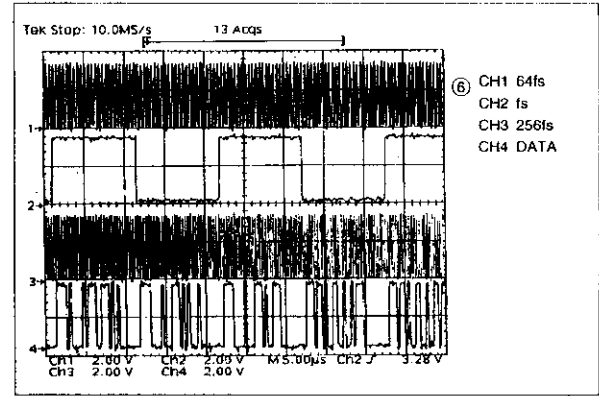
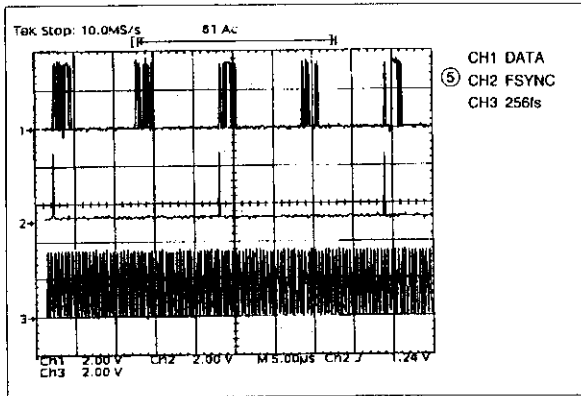
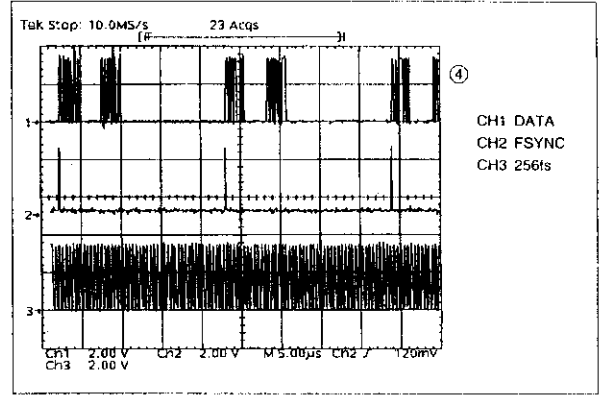
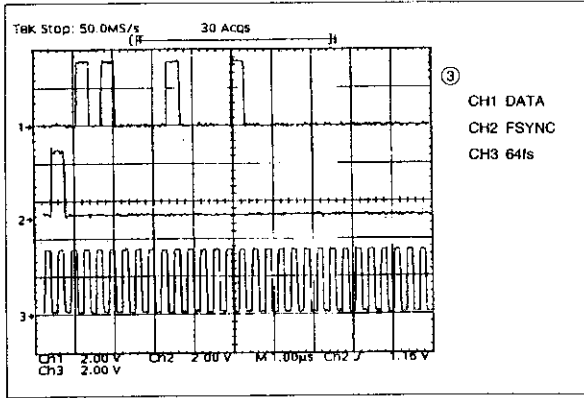
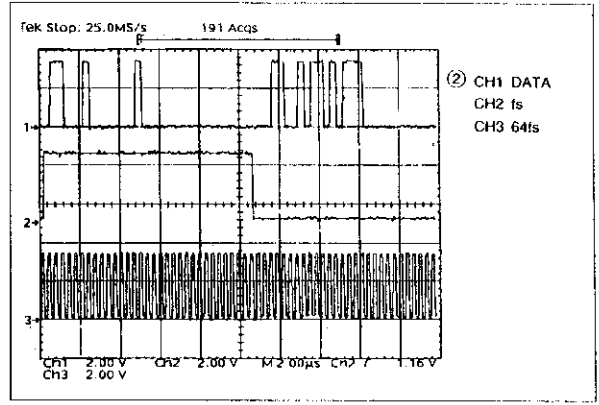
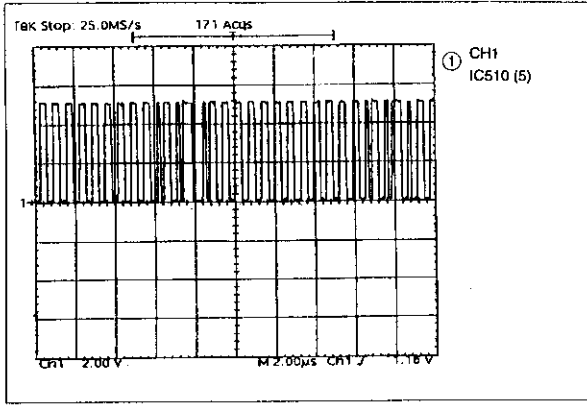
CAUTION:

- Do not detach the back panel when placing the unit other than normal position for servicing.
- Be careful not to give any stress when the unit is placed in the bottom down position with its cover removed, as the capacitors on D/A P.W.B. (1U-3274-1) and holders on Main P.W.B. (1U-3127-1) are come to be protruded from the bottom level.

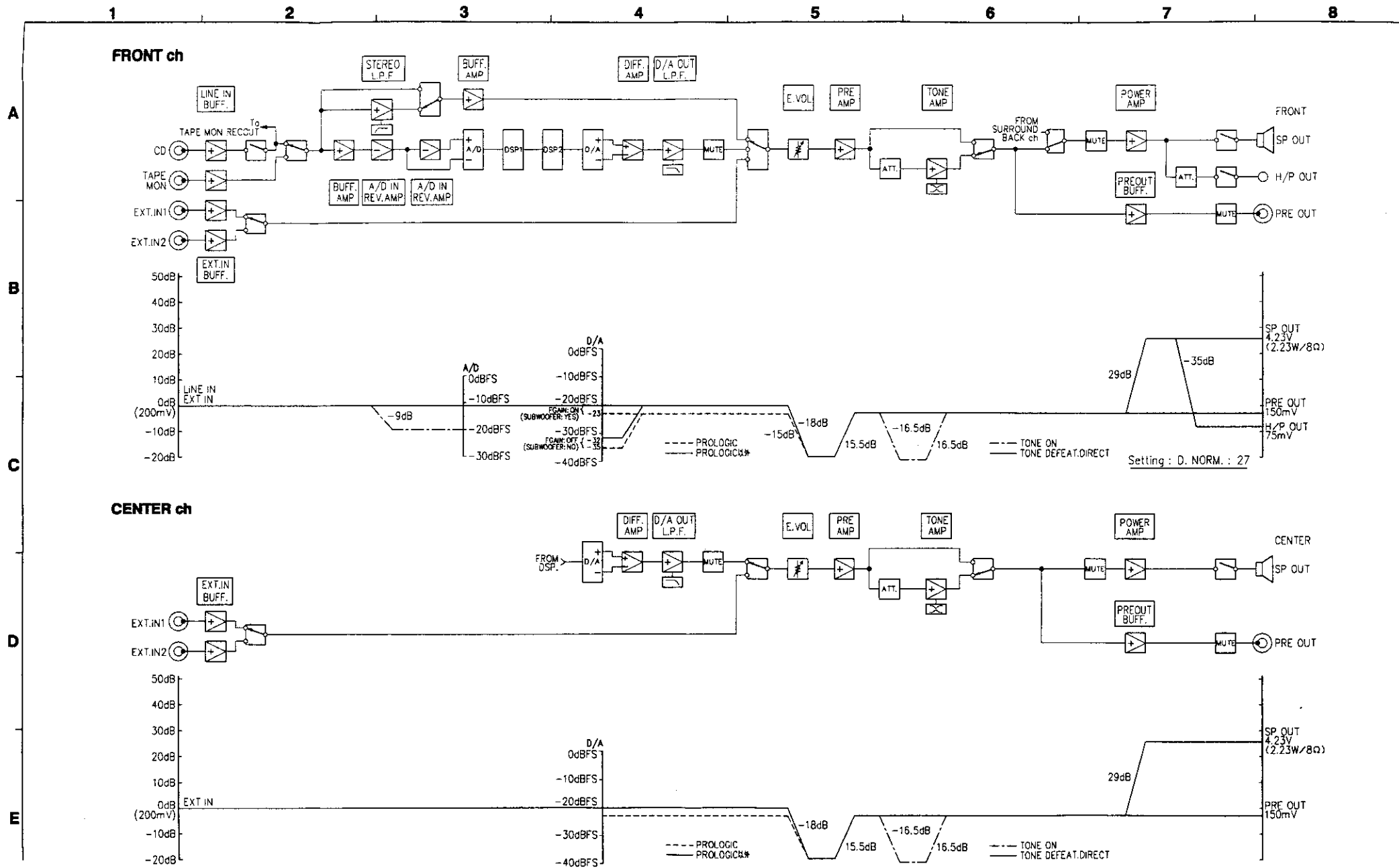
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

Clock Flow



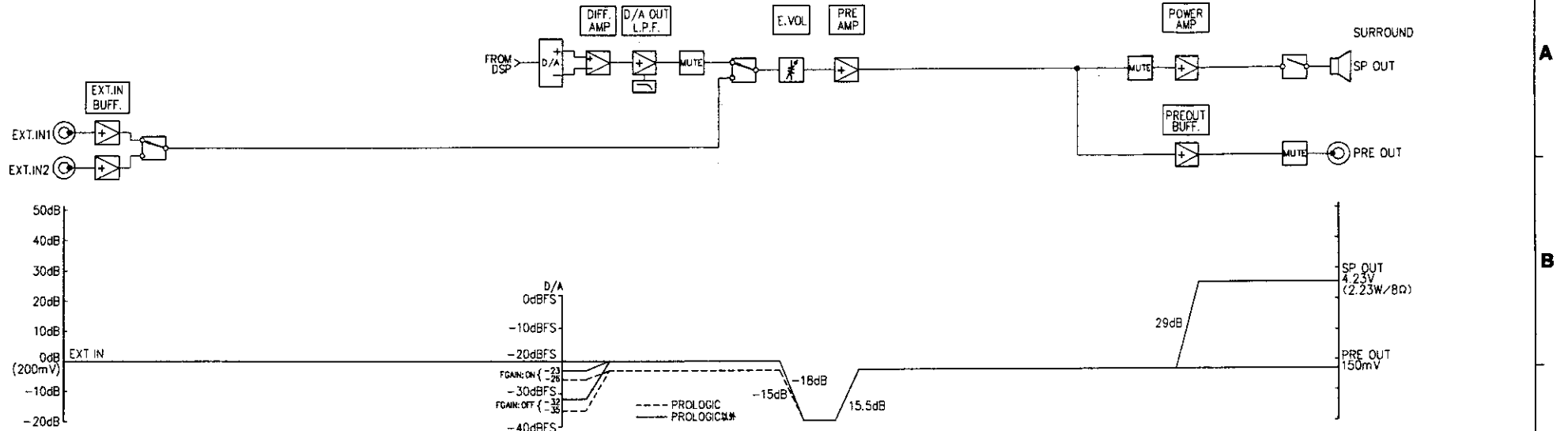


LEVEL DIAGRAMS

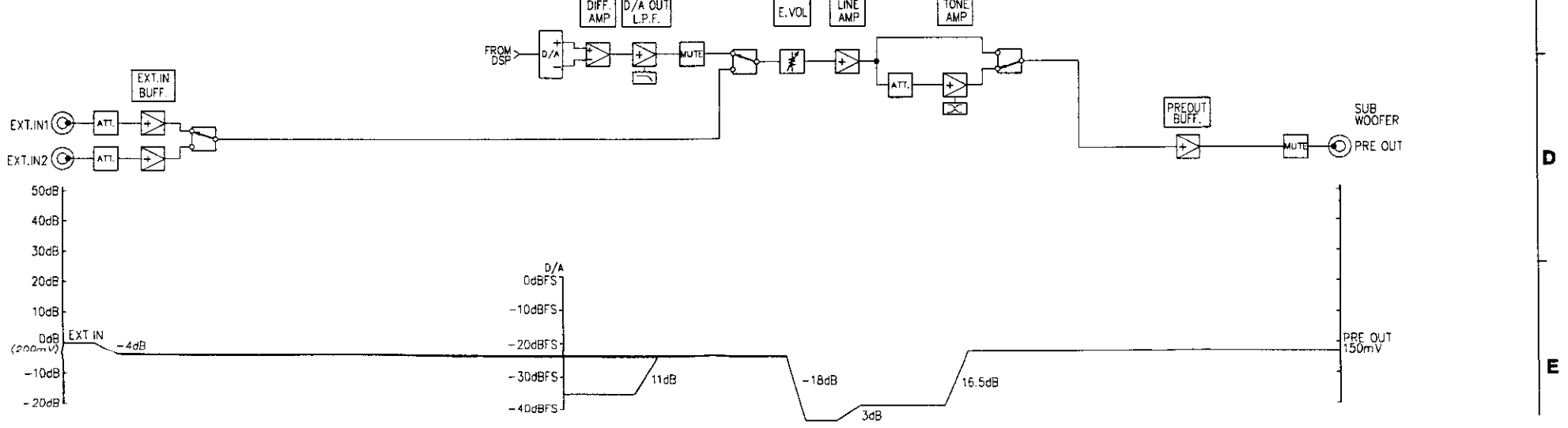


1 2 3 4 5 6 7 8

SURROUND ch



SUB-WOOFER ch



A

B

C

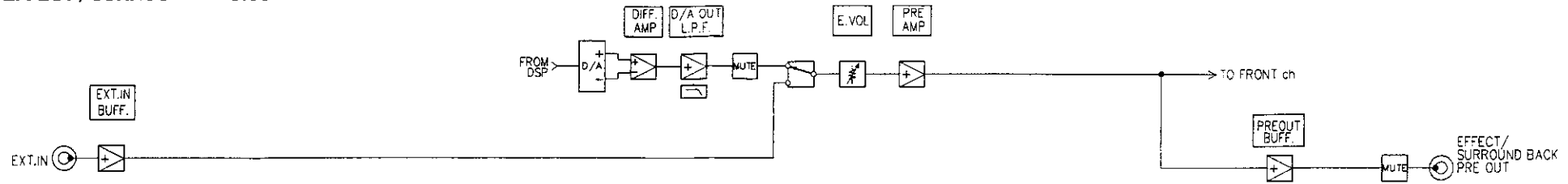
D

E

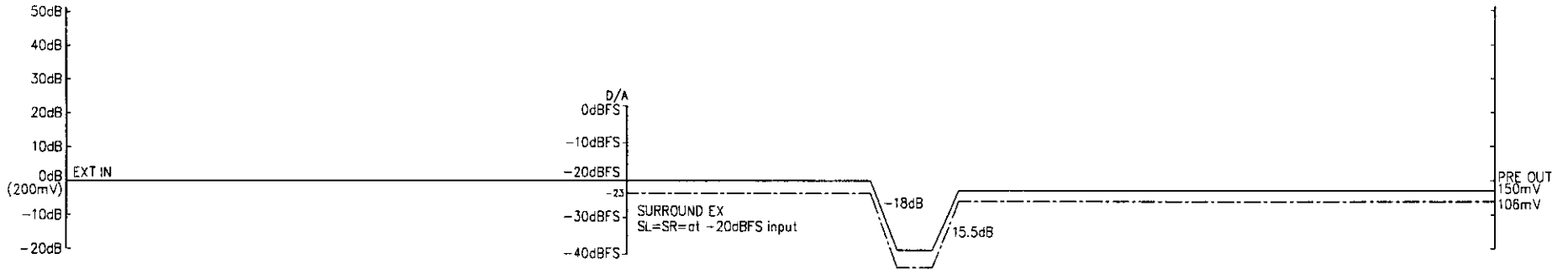
1 2 3 4 5 6 7 8

EFFECT / SURROUND BACK ch

A



B



C

D

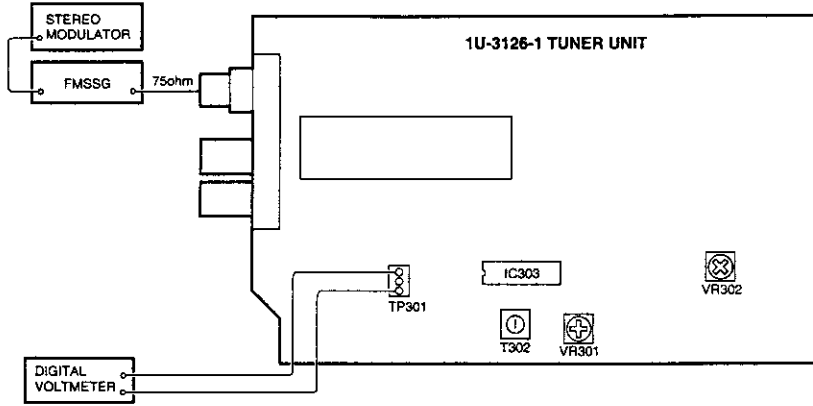
E

ADJUSTMENT

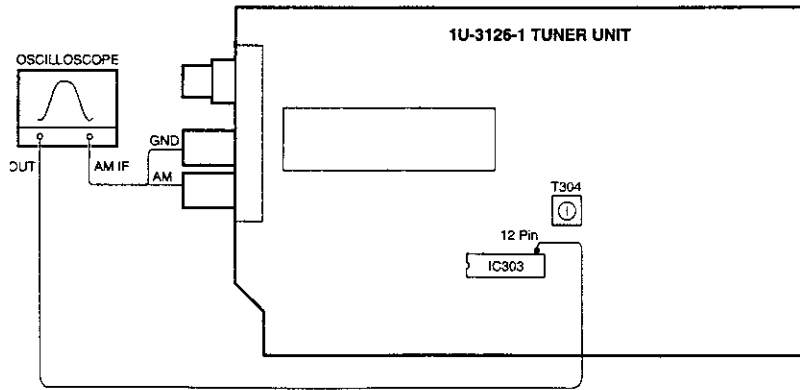
Tuner Section (AVR-4800 only)

CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

● FM



● AM



FM/MPX ALIGNMENT

Step	Alignment Item	Tuning Frequency Setting	Input			Output			Adjust	Remarks			
			Type	Frequency	Input Level	Modulation	Coupling	Type			Connect to	Points	Adjust to
1	Tuning Center	98.1 MHz	FM SSG	98.1 MHz	60 dBμ	None	Antenna Terminal	Antenna Terminal	Digital Voltmeter	TP301	T302	± 50mV	Function : FM Mode : Auto
2	Separation	98.1 MHz	FM SSG	98.1 MHz	60 dBμ	Stereo (L) 1kHz 100%	Antenna Terminal	Antenna Terminal	AC Voltmeter	AUDIO OUT Terminal (R)	VR302	Maximum Separation	—
3	Signal Level	98.1 MHz	FM SSG	98.1 MHz	20 dBμ	Off	Antenna Terminal	Antenna Terminal	—	—	VR301	Light "TUNED" FLD Character	—

AM ALIGNMENT

Step	Alignment Item	Frequency	Input	Output			Remarks
				Type	Connect to	Points	
1	IF	—	IF SWEEP (Input level is not over to work A.G.C.)	Oscilloscope	IC303 12Pin	T304	Maximum height and best symmetry curve

Audio Section

Idling Current (1U-3126-2)

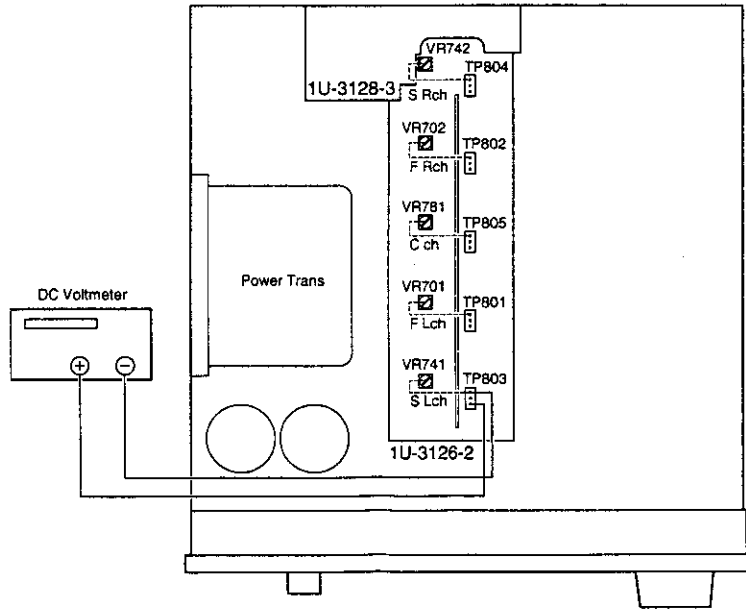
Required measurement equipment : DC Voltmeter

Preparation

- (1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15 °C ~ 30 °C (59 °F ~ 86 °F).
- (2) Presetting
 - POWER (Power source switch) → OFF
 - SPEAKER (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

- (1) Remove top cover and set VR701, VR702, VR781, VR741, VR742, on 1U-3126-2 (Amp. Unit) at full counterclockwise (◯) position.
- (2) Connect DC Voltmeter to test points (FRONT-Lch: TP801, FRONT-Rch: TP802, CENTER ch: TP805, SURROUND-Lch: TP803, SURROUND-Rch: TP804).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Presetting.
 - MASTER VOLUME : "----" counterclockwise (◯ min.)
 - MODE : 5CH STEREO
 - FUNCTION : CD
- (5) Within 2 minutes after the power on, turn VR701 clockwise (◯) to adjust the TEST POINT voltage to 1.5 mV ±0.5 mV DC.
- (6) After 10 minutes from the preset above, turn VR701 to set the voltage to 3 mV ±0.5 mV DC.
- (7) Adjust the Variable Resistors of other channels in the same way.

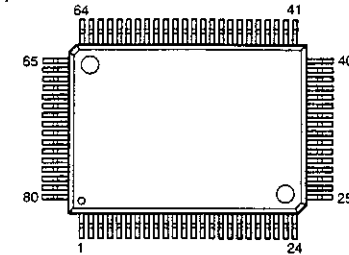


SEMICONDUCTORS

● IC's

Note: Abbreviation ahead of IC No. indicates the name of P.W.B.
 AU: Audio In & SP P.W.B. EX: Ext. In P.W.B.
 TU: Tuner & Amp P.W.B. DA: D/A P.W.B.
 MA: Main & Reg. P.W.B. TO: Tone, Pre-out P.W.B.
 VI: Video & FLD P.W.B.
 RE: Rectifier & Primary P.W.B.
 DS: DSP P.W.B.

TMP88CU74F
(MA: IC201)



TMP88CU74F Terminal Function

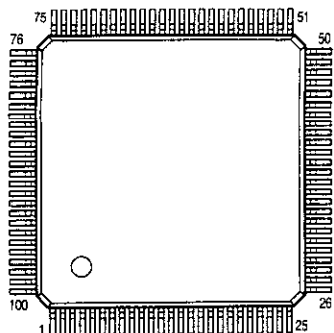
Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	P02/S01	OSD DATA	O	C	Eu	S	Z	L	OSD control output (M35015)
2	P03	OSD RST	O	C	---	---	Z	H	OSD control output (M35015)
3	P04	NU	O	C	---	---	Z	L	Open
4	P05	PLFLDATA	O	C	---	S	Z	L	PLL, FL control terminal (LC72131 & LC7511NE)
5	P06	NU	O	C	---	---	Z	L	Open
6	P07	PLFL CLK	O	C	---	S	Z	L	PLL, FL control terminal (LC72131 & LC7511NE)
7	Vss	Vss	I	---	GND	---	---	L	GND
8	Xout	Xout	O	---	---	---	---	---	XTAL
9	Xin	Xin	I	---	---	---	---	---	XTAL
10	RESET_	RESET_	I	---	Eu	Lv	L	---	Reset input
11	P22/XTOUT	NU	O	---	Eu	Lv	Z	L	Open
12	P21/XTIN	NU	O	---	Eu	Lv	Z	L	Open
13	TEST	TEST	I	---	GND	S	---	---	Connect to GND
14	P20/INT5_	B.DOWN_	I	---	Eu	Lv	Z	---	Power down detect (L: Power down)
15	P10/INT0_	PROTECT_	I	---	Ed	E&L	Z	---	PROTECTION detect input (L: Detected)
16	P11/INT1	S1	O	C	---	---	Z	L	Video switching control terminal
17	P12	SELG(F)	I	---	Eu	Lv	Z	---	Input selector SW rotary detect input (rotary encoder)
18	P13	SELD(F)	I	---	Eu	Lv	Z	---	Input selector SW rotary detect input (rotary encoder)
19	P14	SW L/R 7.1	O	C	---	---	Z	L	Surround back PREOUT muting control terminal (L: Mute)
20	P15/INT3	REMOCON	I	---	Ed	E&L	Z	---	Remote control signal input
21	P16/INT2	ACK	O	C	---	---	Z	L	MAIN-SUB CPU comm. control terminal
22	P17/INT4	REQ	I	---	Eu	---	Z	L	MAIN-SUB CPU comm. control terminal
23	P30/SCL	SI	I	(C)	---	---	---	---	MAIN-SUB CPU comm. control terminal
24	P31/SDA	SO	O	(C)	---	---	---	---	MAIN-SUB CPU comm. control terminal
25	P32/SCK0_	CLK	I/O	(C)	---	---	---	---	MAIN-SUB CPU comm. control terminal
26	P40/AIN0	MODE	I	---	Eu	Lv	Z	---	Destination switching input
27	P41/AIN1	KEY1	I	---	Eu	Lv	Z	---	Button input 1
28	P42/AIN2	KEY2	I	---	Eu	Lv	Z	---	Button input 2
29	P43/AIN3	KEY3	I	---	Eu	Lv	Z	---	Button input 3
30	P44/AIN4	KEY4	I	---	Eu	Lv	Z	---	Button input 4
31	P45/AIN5	FUNCT. CON CLK	O	C	Ed	---	Z	L	Function (TC9274N, TC9273) / Tone (TC9184P) control output
32	P46/AIN6	FUNCT. CON DATA	O	C	Ed	---	Z	L	Function (TC9274N, TC9273) / Tone (TC9184P) control output
33	P47/AIN7	S2	O	C	---	---	Z	L	Video switching control terminal
34	P50/AIN8	E.VOL STB-1	O	C	Ed	---	L	L	E. volume control output (TC9459)
35	P51/AIN9	EXT SW STB	O	C	Ed	---	L	L	EXT switch control output (TC9273)
36	P52/AIN10	E.VOL/EXT SW DATA	O	C	Ed	---	L	H	E. volume (TC9459)/ EXT switch (TC9273) control output
37	P53/AIN11	E.VOL/EXT SW CLK	O	C	Ed	---	L	H	E. volume (TC9459)/ EXT switch (TC9273) control output

Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
38	VASS	VASS	I						Ref. V (GND)
39	VAREF	VAREF	I						Ref. V (VDD)
40	VDD	VDD	I						Power
41	P61	FL CE	I	P	Ed	S	L	H	FL display control output (LC75711NE)
42	P61	FL RES	O	P	Ed	S	L	H	FL display control output (LC75711NE)
43	P62	FUNC STBA	O	P	Ed	---	Z	L	Function control output (TC9274N) INPUT
44	P63	FUNC STBB	O	P	Ed	---	Z	L	Function control output (TC9273) REC OUT, REC INH
45	P64	TONE CON. STB	O	P	Ed	---	Z	L	TONE control output (TC9184P)
46	P65	STANDBY	O	P	Id	---	L	H	Standby LED drive output (H: Light)
47	P66	EXP OE	O	P	Ed	---	L	H	Port expander control terminal (TC4094B)
48	P67	EXP CLK	O	P	Ed	---	L	L	Port expander control terminal (TC4094B)
49	P70	EXP DATA	O	P	Ed	---	L	L	Port expander control terminal (TC4094B)
50	P71	EXP STB1	O	P	Ed	---	L	L	Port expander control terminal (TC4094B)
51	P72	LED CLK	O	P	---	S	Z	H	LED control terminal (M66313)
52	P73	LED DATA	O	P	---	S	Z	H	LED control terminal (M66313)
53	P74	LED LE	O	P	---	Z	H	H	LED control terminal (M66313)
54	P75	LED OE	O	P	---	Z	H	H	LED control terminal (M66313), set input port at STBY
55	P76	MULTI MUTE	O	P	Ed	---	L	H	MULTI MUTE output (L: Mute)
56	P77	H/P RELAY	O	P	Id	---	L	L	H/P OUT relay control output (L: Mute)
57	P80	POWER	O	P	Id	---	L	H	Power relay control output (L: ON)
58	P81	RESET2	O	P	Id	---	L	H	Sub CPU control reset output (H: Reset control)
59	P82	F RELAY	O	P	Id	Lv	L	---	Front SP relay control terminal (L: Mute)
60	P83	C RELAY	O	P	Id	---	L	H	Center SP relay control terminal (L: Mute)
61	P84	SA RELAY	O	P	---	Lv	L	---	Surround SP relay A control terminal (L: Mute)
62	P85	SB RELAY	O	P	---	Lv	L	---	Surround SP relay B control terminal (L: Mute)
63	P86	PRE F MUTE	O	P	Ed	---	L	H	Front PREOUT mute control terminal (L: Mute)
64	P87	PRE C MUTE	O	P	---	Lv	L	---	Center PREOUT mute control terminal (L: Mute)
65	P90	PRE S MUTE	O	P	Ed	---	L	H	Surround PREOUT mute control terminal (L: Mute)
66	P91	SUB WOOFER MUTE	O	P	Ed	---	L	L	Sub-woofer PREOUT mute control terminal (L: Mute)
67	P92	S MONI DET	I	---	Eu	Lv	Z	---	S monitor connection detect input (L: connected)
68	P93	S SIG DET	I	---	Eu	Lv	Z	---	S signal detect input (H: S signal input)
69	P94	SYNC DET	I	---	Eu	Lv	Z	---	Sync. detect input (H: External sync.)
70	P95	SEL A (M)	I	---	Eu	Lv	Z	---	Master volume rotary detect input (rotary encoder)
71	P96	SEL B (M)	I	---	Eu	Lv	Z	---	Master volume rotary detect input (rotary encoder)
72	P97	H/P DET	I	---	Eu	Lv	Z	L	H/P input detect (H: Detect)
73	PD0	VOL MUTE	O	P	Ed	---	L	L	Master volume infinite control (L: infinite)
74	PD1	SEL E (B)	I	---	Eu	Lv	Z	---	BASS volume rotary detect input (rotary encoder)
75	PD2	SEL F (B)	I	---	Eu	Lv	Z	---	BASS volume rotary detect input (rotary encoder)
76	PD3	SEL G (T)	I	---	Eu	Lv	Z	---	TREBLE volume rotary detect input (rotary encoder)
77	PD4	SEL H (T)	I	---	Eu	Lv	Z	---	TREBLE volume rotary detect input (rotary encoder)
78	Vkk	Vkk	---	---	---	---	---	---	Fixed to GND
79	P00/SCK1	OSD CLK	O	C	Eu	S	Z	H	OSD control output (M35015)
80	P01/SI1	OSD STB1	O	C	Eu	---	Z	H	OSD control output (M35015)

NOTE:

- Pin No. : Terminal number of microcomputer.
- Port Name : The name entered in the data sheet of microcomputer.
- Symbol : Symbolized interface function.
- I/O : Input or out of part.
 - "I" = Input port
 - "O" = Output port
- Type : Composition of port in case of output port.
 - "C" = CMOS output
 - "N" = NMOS open drain output
 - "P" = PMOS open drain output
- Op : Pull up/Pull down selection information.
 - "U" = Inner microcomputer pull up
 - "D" = Inner microcomputer pull down
 - "E" = External microcomputer pull up
 - "e" = External microcomputer pull down
- Det : Indicates judging state of input port. Level detection is "L", Edge detection is "Ed", Detection by both sensing is "E&L".
*Signal data detection is "S" (Signal data output is "SS").
- Res : State at reset.
 - "H" = Outputs High Level at reset
 - "L" = Outputs Low Level at reset
 - "Z" = Becomes High impedance mode at reset
- Init : Initial output state.
- Function : Function and logical level explanation of signals to be interface.

TMP93CS41F
(DS: IC301)



TMP93CS41F Terminal Function

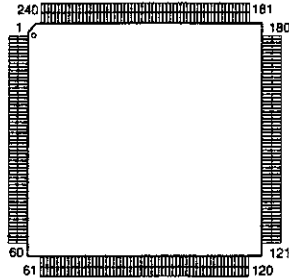
Pin No.	Name	Symbol	I/O	Type	Det	Op	Res	Init	Function
1	V REFL								A/O ref. GND
2	A Vsa	←							A/O GND
3	A Voc	←							AD +5V
4	_NMI	↑							Not used (fixed to H)
5	P70/T10	_DEM0D RESET	O	C	—	Od	L	L	Demodulator reset output (L: Reset)
6	P71/T01	DEM0D ON	O	C	—	Od	L	L	Demodulator osc. control output (H: Osc.)
7	P72/T02	FAN1	O	C	—	Od	L	L	FAN control output (H: ON, L: OFF)
8	P73/T03	FAN2	O	C	—	Od	L	L	FAN control output (H: Hi, L: Low & off)
9	P80/INT4/T4	B.DOWN	I	—	EJ&L				Power down detect (L: Detected)
10	P81/INT5/T5	DSP ACK	I	—	ET&L				Host I/F comm. response input (L: OK)
11	P82/T04	AC-3 RF DET	I	—	EJ&L				AC-3 RF signal judge input (L: AC-3 data input)
12	P83/T05	_REQ	O	C	—	Eu	H	L	MAIN-SUB CPU comm. control output (L: Comm. request from sub)
13	P84/INT6/T16	_ACK	I	—	EJ&L				MAIN-SUB CPU comm. control input (L: Ack. return from main)
14	P85/INT7/T17	ERR	I	—	ET&L				DIR control input terminal (LC89055Q) (H: ERR)
15	P86/T06	_DSP RESET	O	C	—	Od	L	L	DSP reset output terminal (L: Reset)
16	P97/INT0	_CS	I	—	ET&L				DIR control input terminal (LC89055Q), when CH status change L→H
17	P90/TXD0	SI	O	C	—				MAIN-SUB CPU comm. control terminal (data output)
18	P91/RXD0	SO	I	—					MAIN-SUB CPU comm. control terminal (data input)
19	P92/_CTS0/SCLK0	CLK	I/O	C	—				MAIN-SUB CPU comm. control terminal (I2C clock in/output)
20	P93/TXD1	NC	O	C	—	Z	L		Open
21	P94/RXD1	DIR MISO	I	—	Lv				DIR control input terminal (LC89055Q) control data input
22	P95/SCLK1	DIR CLK	O	C	—	Z	L		DIR control terminal (LC89055Q) control clock output
23	AM8/_16	←							Fixed to +5V
24	CLK	←				Eu			
25	Vcc	←							+5V
26	Vss	←							GND
27	X1	Xin	I	—					X'tal connection
28	X2	Xout	O	—					X'tal connection
29	_EA	←							Fixed to +5V
30	_RESET	RESET2	I	—	Lv	Eu	L		Reset input (controlled by main CPU)
31	P96/XT1	A/D RESET	O	N	—	Eu	H	H	A/D control terminal (L: Reset)
32	P97/XT2	ASiC RESET	O	N	—	Eu	H	H	ASiC control terminal (L: Reset)
33	TEST1	←							Connected to TEST2
34	TEST2	←							Connected to TEST1
35	PA0	DINA	O	C	—	Ed	L	L	Digital input switching control output
36	PA1	DINB	O	C	—	Ed	L	L	Digital input switching control output
37	PA2	DINC	O	C	—	Ed	L	L	Digital input switching control output
38	PA3	DIND	O	C	—	Ed	L	L	Digital input switching control output
39	PA4	DINE	O	C	—	Ed	L	L	Digital input switching control output
40	PA5	DOUTA	O	C	—	Ed	L	L	Digital input switching control output
41	PA6	DOUTB	O	C	—	Ed	L	L	Digital input switching control output
42	PA7/SCOUT	DOUTC	O	C	—	Ed	L	L	Digital input switching control output
43	ALE	←							Address latch enable
44	Vcc	←							+5V
45	PG0/AD0	AD0	I/O	C	—	Z	L		EPROM data in D0 / address out A0
46	PG1/AD1	AD1	I/O	C	—	Z	L		EPROM data in D1 / address out A1
47	PG2/AD2	AD2	I/O	C	—	Z	L		EPROM data in D2 / address out A2
48	PG3/AD3	AD3	I/O	C	—	Z	L		EPROM data in D3 / address out A3
49	PG4/AD4	AD4	I/O	C	—	Z	L		EPROM data in D4 / address out A4
50	PG5/AD5	AD5	I/O	C	—	Z	L		EPROM data in D5 / address out A5

Pin No.	Name	Symbol	I/O	Type	Det	Op	Res	Init	Function
51	PG6/AD6	AD6	I/O	C	—	Z	L		EPROM data in D6 / address out A6
52	PG7/AD7	AD7	I/O	C	—	Z	L		EPROM data in D7 / address out A7
53	PG10/AD9/A8	A8	O	C	—	Z	L		EPROM address out A8
54	PG11/AD9/A9	A9	O	C	—	Z	L		EPROM address out A9
55	PG12/AD10/A10	A10	O	C	—	Z	L		EPROM address out A10
56	PG13/AD11/A11	A11	O	C	—	Z	L		EPROM address out A11
57	PG14/AD12/A12	A12	O	C	—	Z	L		EPROM address out A12
58	PG15/AD13/A13	A13	O	C	—	Z	L		EPROM address out A13
59	PG16/AD14/A14	A14	O	C	—	Z	L		EPROM address out A14
60	PG17/AD15/A15	A15	O	C	—	Z	L		EPROM address out A15
61	_WDTOU	←				Z	H		Watch dog output
62	Vss	←							GND
63	Vcc	←							+5V
64	PG20/AD16	A16	O	C	—	Z	L		EPROM address out A16
65	PG21/A17/A17	96k-DAC	O	C	—	Z	L		Interpolation filter in DAC (AD1854) setting for 96k (H: 96k)
66	PG22/A18/A18	ADIRCE	O	C	—	Z	L		DIR control terminal (LC89055Q) control chip enable output
67	PG23/A19/A19	DIR MOSI	O	C	—	Z	L		DIR control terminal (LC89055Q) control data output
68	PG24/A1/A20	DAC-RESET	O	C	—	Od	L	H	DAC control terminal (L: Power down, ↑: Reset, H: Normal)
69	PG25/A5/A21	FGAIN	O	C	—	Od	L	L	I/V AMP gain switching control output (L: Sub-wwoofer on)
70	PG26/A6/A22	HDCCD	O	C	—	Od	L	L	HDCCD control terminal (fixed to L)
71	PG27/A7/A23	SEL CK	O	C	—	Z	L		ADC/DIR data clock switching control terminal (L: ADC)
72	PG30/_RD	_RD	O	C	—	Z	L		Flash memory control terminal
73	PG31/_WR	_WR	O	C	—	Z	L		Flash memory control terminal
74	PG32/_HWR	_CSI	I	—	Lv				DIR control input terminal (L: PCM)
75	PG33/_WAIT	ERR MUTE	O	C	—	Od	L	L	Pop noise preventive mute control output (L: Mute)
76	PG34/_BUSRQ	_DSP REQUEST	O	C	—	Z	L		(ADSP21061L-A:IRQ1) host I/F interrupt request output (L: REQ)
77	PG35/_BUSRQ	DIG (AC39) MUTE	O	C	—	Od	Z	L	Digital mute control output (L: AC-3 or DTS decode enable)
78	PG36/_RWW	WRITE	O	C	—	Z	L		DSP comm. control terminal (H: Data write)
79	PG37/_RAS	DIR RESET	O	C	—	Z	L		DIR control output (LC89055Q) (L: Reset)
80	PG40/CS0/_CAS0	NU (FLAG 1B)	I	—	Lv				Not used (ADSP21061L-B: FLAG 1B) input
81	PG41/_CS1/_CAS1	NU (LFE PRESENCE)	I	—	Lv				Not used (ADSP21061L-B: FLAG 0B) LFE slg. detect input, H: Detected
82	PG42/_CS2/_CAS2	_CS0	O	C	—	Z	L		Flash memory control terminal
83	PG0/PG00	I/O1	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D16)
84	PG1/PG01	I/O2	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D17)
85	PG2/PG02	I/O3	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D18)
86	PG3/PG03	I/O4	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D19)
87	PG4/PG10	I/O5	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D20)
88	PG5/PG11	I/O6	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D21)
89	PG6/PG12	I/O7	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D22)
90	PG7/PG13	I/O8	I/O	C	—	Z	L		DSP comm. terminal (ADSP21061L: D23)
91	Vss	←							GND
92	PG5/AN0	AUDIO LEVEL	I	—	Lv	Eu	Z		Signal level detect, set to A/D input
93	PG51/AN1	POSI (FAN)	I	—	Lv	Eu	Z		Temperature detect, set to A/D input
94	PG52/AN2	EMP	I	—	Lv				H: EMP on
95	PG53/AN3	96k DET	I	—	Lv				96k signal detect input, H: 96k
96	PG54/AN4	BUSY1	I	—	Lv				(ADSP21061L-A:FLAG2A)
97	PG55/AN5	NU (FLAG 3A)	I	—	Lv				Not used (ADSP21061L-A: FLAG 3A)
98	PG56/AN6	BUSY2	I	—	Lv				(ADSP21061L-B:FLAG2B) input
99	PG57/AN7		I	—	Lv				
100	V REFH	←							AD ref. +5V

NOTE:

- Pin No. : Terminal number of microcomputer
- Port Name : The name entered in the data sheet of microcomputer.
- Symbol : Symbolized interface function.
- I/O : Input or out of part.
 - "I" = Input port
 - "O" = Output port
- Type : Composition of port in case of output port.
 - "C" = CMOS output
 - "N" = NMOS open drain output
 - "P" = PMOS open drain output
- Op : Pull up/Pull down selection information.
 - "u" = Inner microcomputer pull up
 - "d" = Inner microcomputer pull down
 - "Eu" = External microcomputer pull up
 - "Ed" = External microcomputer pull down
- Det : Indicates judging state of input port. Level detection is "Lv", Edge detection is "Ed", Detection by both sharing is "EAL". Serial data detection is "S" (Serial data output is also "S").
- Res : State at reset.
 - "H" = Outputs High Level at reset
 - "L" = Outputs Low Level at reset
 - "Z" = Becomes High Impedance mode at reset
- Ini : Initial output state.
- Function : Function and logical level explanation of signals to be interface.

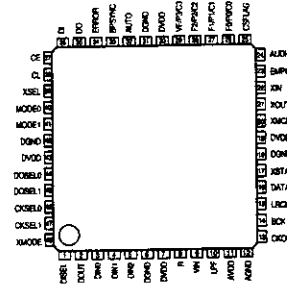
ADSST-21061LKS-176
(DS: IC103, 110)



ADSST-21061LKS-176 Terminal Function

Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	TDI	41	ADDR20	81	TCLK0	121	DATA41	161	DATA14	201	NC
2	TRST	42	ADDR21	82	TFS0	122	DATA40	162	DATA13	202	NC
3	VDD	43	GND	83	DR0	123	DATA39	163	DATA12	203	NC
4	TDO	44	ADDR22	84	RCLK0	124	VDD	164	GND	204	NC
5	TIMEXP	45	ADDR23	85	RFS0	125	DATA38	165	DATA11	205	VDD
6	EMU	46	ADDR24	86	VDD	126	DATA37	166	DATA10	206	NC
7	ICSA	47	VDD	87	VDD	127	DATA36	167	DATA9	207	NC
8	FLAG3	48	GND	88	GND	128	GND	168	GND	208	NC
9	FLAG2	49	VDD	89	ADRCLK	129	NC	169	DATA8	209	NC
10	FLAG1	50	ADDR25	90	REDY	130	DATA35	170	DATA7	210	NC
11	FLAG0	51	ADDR26	91	HBG	131	DATA34	171	DATA6	211	NC
12	GND	52	ADDR27	92	CS	132	DATA33	172	GND	212	GND
13	ADDR0	53	EGND	93	RD	133	VDD	173	DATA5	213	NC
14	ADDR1	54	MS3	94	WR	134	VDD	174	DATA4	214	NC
15	VDD	55	MS2	95	GND	135	GND	175	DATA3	215	NC
16	ADDR2	56	MS1	96	VDD	136	DATA32	176	VDD	216	NC
17	ADDR3	57	MS0	97	GND	137	DATA31	177	DATA2	217	NC
18	ADDR4	58	SW	98	CLKIN	138	DATA30	178	DATA1	218	NC
19	GND	59	BMS	99	ACK	139	GND	179	DATA0	219	VDD
20	ADDR5	60	ADDR28	100	DMAG2	140	DATA29	180	GND	220	GND
21	ADDR6	61	GND	101	DMAG1	141	DATA28	181	GND	221	VDD
22	ADDR7	62	VDD	102	PAGE	142	DATA27	182	NC	222	NC
23	VDD	63	VDD	103	VDD	143	VDD	183	NC	223	NC
24	ADDR8	64	ADDR29	104	BR6	144	VDD	184	NC	224	NC
25	ADDR9	65	ADDR30	105	BR5	145	DATA26	185	NC	225	NC
26	ADDR10	66	ADDR31	106	BR4	146	DATA25	186	NC	226	NC
27	GND	67	GND	107	BR3	147	DATA24	187	NC	227	NC
28	ADDR11	68	SBTS	108	BR2	148	GND	188	VDD	228	GND
29	ADDR12	69	DMAR2	109	BR1	149	DATA23	189	NC	229	ID2
30	ADDR13	70	DMAR1	110	GND	150	DATA22	190	NC	230	ID1
31	VDD	71	HBR	111	VDD	151	DATA21	191	NC	231	ID0
32	ADDR14	72	DT1	112	GND	152	VDD	192	NC	232	LBOOT
33	ADDR15	73	TCLK1	113	DATA47	153	DATA20	193	NC	233	RPBA
34	GND	74	TFS1	114	DATA46	154	DATA19	194	NC	234	RESET
35	ADDR16	75	DR1	115	DATA45	155	DATA18	195	GND	235	EBOOT
36	ADDR17	76	RCLK1	116	VDD	156	GND	196	GND	236	IRQ2
37	ADDR18	77	RFS1	117	DATA44	157	DATA17	197	VDD	237	IRQ1
38	VDD	78	GND	118	DATA43	158	DATA16	198	NC	238	IRQ0
39	VDD	79	CPA	119	DATA42	159	DATA15	199	NC	239	TCK
40	ADDR19	80	DT0	120	GND	160	VDD	200	NC	240	TMS

LC89055W
(DS:IC531)

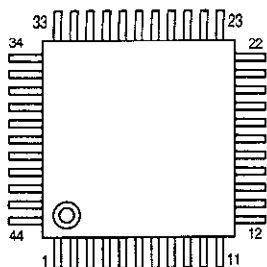


LC89055W Terminal Function

Pin No.	Pin Name	I/O	Function
1	DISEL	I	Data input terminal (select input pin of DIN0, DIN1)
2	DCOUT	O	Input bi-phase data through output terminal
3	DIN0	I	Amp built-in coaxial/optical input correspond data input terminal
4	DIN1	I	Amp built-in coaxial/optical input correspond data input terminal
5	DIN2	I	Optical input correspond data input terminal
6	DGND		Digital GND
7	DVDD		Digital power supply
8	R	I	VCO gain control input terminal
9	VIN	I	VCO free-run frequency setting input terminal
10	LPF	O	PLL loop filter setting terminal
11	AVDD		Analog power supply
12	AGND		Analog GND
13	CKOUT	O	Clock output terminal (256fs, 384fs, 512fs, X'tal osc., VCO free-run osc.)
14	BCK	O	64fs clock output terminal
15	LRCCK	O	fs clock output terminal (L: Rch, H: Lch, I2S: Reverse)
16	DATAC	O	Data output terminal
17	XSTATE	O	Input data detecting result output terminal
18	DGND		Digital GND
19	DVDD		Digital power supply
20	XMCK	O	X'tal osc. clock output terminal (24.576MHz or 12.288MHz)
21	XOUT	O	X'tal osc. connection output terminal
22	XIN	I	X'tal osc. connection output terminal
23	EMPHA	O	Emphasis information output terminal of channel status
24	AUDIO	O	Bit1 output terminal of channel status
25	CSFLAG	O	Top 40bit revise flag output terminal of channel status
26	F0/P0/C0	O	Input fs cal. sig. out / data type out / input word inf. output terminal
27	F1/P1/C1	O	Input fs cal. sig. out / data type out / input word inf. output terminal
28	F2/P2/C2	O	Input fs cal. sig. out / data type out / input word inf. output terminal
29	VF/P3/C3	O	Validity flag out / data type out / input word inf. output terminal
30	DVDD		Digital power supply
31	DGND		Digital GND
32	AUTO	O	Non PCM burst data transfer detect sig. output terminal
33	BPSYNC	O	Non PCM burst data preamble Pa, Pb, Pc, Pd sync sig. output terminal
34	ERROR	O	PLL lock error, data error flag output terminal
35	DO	O	CPU I/F read data output terminal
36	DI	I	CPU I/F write data input terminal
37	CE	I	CPU I/F chip enable input terminal
38	CL	I	CPU I/F clock input terminal
39	XSEL	I	Frequency select input pin of XIN X'tal osc. (24.576MHz or 12.288MHz)
40	MODE0	I	Mode setting input terminal
41	MODE1	I	Mode setting input terminal
42	DGND		Digital GND
43	DVDD		Digital power supply
44	DOSEL0	I	Data output format select input terminal
45	DOSEL1	I	Data output format select input terminal
46	CKSEL0	I	Output clock select input terminal
47	CKSEL1	I	Output clock select input terminal
48	XMODE	I	Reset input terminal

* For latch-up countermeasure, set digital (DVDD) and analog (AVDD) power on/off in the same timing.

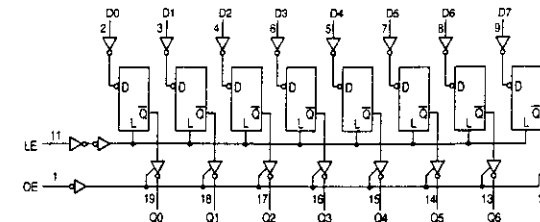
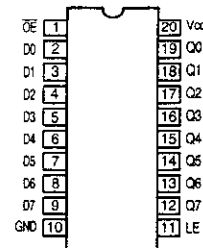
MSM32R0050-521GS
(DS: IC120)



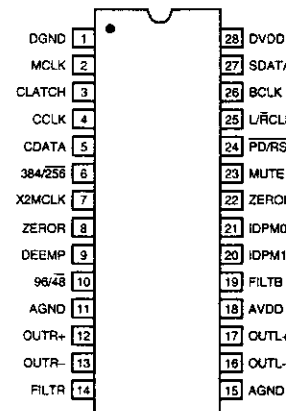
MSM32R0050-521GS Terminal Function

Pin No.	Name	I/O	Function	Pin No.	Name	Symbol	Function
1	Vcc	—		23	GND	—	
2	RFS0	O	RFS for DSP (64fs)	24	NC		
3	GND	—		25	NC		
4	RFS1	O	RFS for DSP (256fs)	26	Vcc	—	
5	GND	—		27	NC		
6	RFS1A	O	Same as RFS1	28	GND	—	
7	GND	—		29	NC		
8	DATA2	I	Output data from DSP	30	NC		
9	GND	—		31	NC		
10	DATA3	O	Data for L/R DAC	32	NC		
11	GND	—		33	MCK0	I	MCK for RFS1 generation
12	DATA4	O	Data for C/SW DAC	34	GND	—	
13	GND	—		35	LRCK0	I	LRCK for RFS0 generation
14	DATA5	O	Data for SL/SR DAC	36	GND	—	
15	GND	—		37	BCK0	I	BCK for RFS0 generation
16	DATA6	O	Data for SBL/SBR DAC	38	GND	—	
17	GND	—		39	GND	—	
18	LRCK1	O	LRCK for all DAC	40	Vcc	—	
19	Vcc	—		41	RESET	I	System reset (L: Reset)
20	BCK1	O	BCK for all DAC	42	CRESET	I	Clock reset (L: Reset)
21	GND	—		43	GND	—	
22	MCK1	O	MCK for all DAC	44	D.MUTE	I	DAC mute (L: Mute)

SN74AHCT573PW (DS: IC111)
SN74LV573APW (DS: IC113, 302)

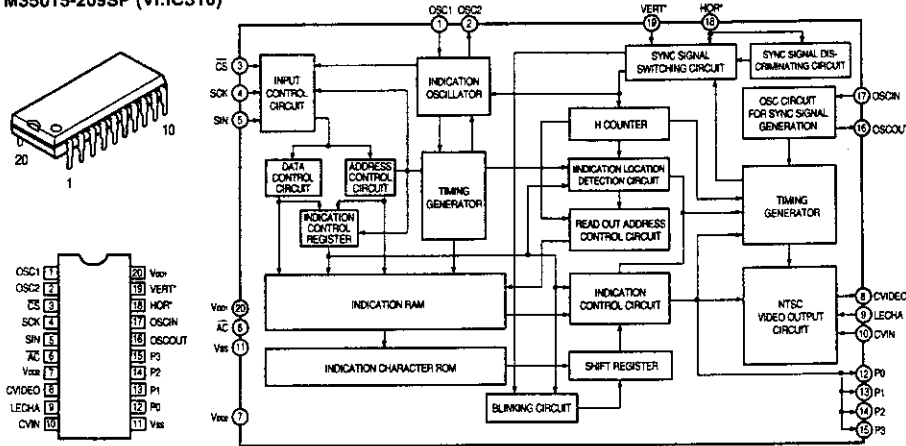


AD1854 (DA: IC304-307)



Pin No.	Name	I/O	Description
1	DGND	I	Digital Ground.
2	MCLK	I	Master Clock Input.
3	CLATCH	I	Latch input for control data.
4	CCLK	I	Control clock input for control data.
5	CDATA	I	Serial control input.
6	384/256	I	Selects the master clock mode.
7	X2MCLK	I	Selects internal clock doubler (LO) or internal clock=MCLK (HI).
8	ZEROR	O	Right Channel Zero Flag Output.
9	DEEMP	I	De-Emphasis.
10	96/48	I	Selects 48 kHz (LO) or 96 kHz Sample Frequency Control.
11,15	AGND	I	Analog Ground.
12	OUTR+	O	Right Channel Positive line level analog output.
13	OUTR-	O	Right Channel Negative line level analog output.
14	FILTR	O	Voltage Reference Filter Capacitor Connection.
16	OUTL-	O	Left Channel Negative line level analog output.
17	OUTL+	O	Left Channel Positive line level analog output.
18	AVDD	I	Analog Power supply.
19	FILTB	O	Filter Capacitor connection.
20	IDPM1	I	Input serial data port mode control one.
21	IDPM0	I	Input serial data port mode control zero.
22	ZEROL	O	Left Channel Zero Flag output.
23	MUTE	I	Mute. Assert HI to mute both stereo analog outputs.
24	PD/RST	I	Power-Down/Reset.
25	L/RCLK	I	Left/Right clock input for input data.
26	BCLK	I	Bit clock input for input data.
27	SDATA	I	Serial input.
28	DVDD	I	Digital Power Supply.

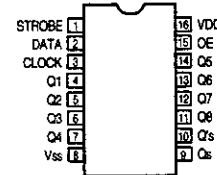
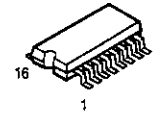
M35015-209SP (VI:IC310)



M35015-209SP Terminal Function

Pin No.	Symbol	Name	I/O	Function
1	OSC1	Osc. circuit ext. terminal.	I	External terminal for indication oscillator circuit. Standard OSC. freq. is approx. 7MHz.
2	OSC2	terminal.	O	With this OSC. freq., decides horizontal indicatin and character width.
3	CS	Chip select input	I	Chip select terminal and turns to "L" when transfer serial data. Hysteresis input. Pull up resistor is built-in.
4	SCK	Serial clock input	I	Takes in serial data of SIN at SCK rise when CS terminal is in "L". Hysteresis input. Pull up reserist is built-in.
5	SIN	Serial data input	I	Serial input of register for indication control and data, and address for indication data memory. Hysteresis input. Pull up resistor is built-in.
6	AC	Auto-clear input	I	Resets internal circuit of IC at "L" mode. Hysteresis input. Pull up resistor is built-in.
7	Vdd2	Power supply	—	Power supply terminal of analog system. Connect to +5V.
8	CVIDEO	Combined video output	O	Output terminal of combined video signal. Outputs 2Vp-p combined signal. Character output, etc. Overlap CVIN signal and outputs at superimpose.
9	LECHA	Character level input	I	Input terminal deciding character output level in combined video signal. color of character is white.
10	CVIN	Combined video input	I	Input terminal of external combined video signal. Character output etc. overlap this external combined video signal.
11	Vss	Ground	—	Ground terminal. Connect to GND.
12	P0	Output port p0	O	General output or character background signal BL NK1* output is switchable. Polarity can be selected at ROM mask.
13	P1	Output port P1	O	General output or character background signal CO1* output is switchable. Polarity can be selected at ROM mask.
14	P2	Output port P2	O	General output or character background signal BLNK2* output is switchable. Polarity can be selected at ROM mask.
15	P3	Output port P3	O	General output or character background signal CO2* output is switchable. Polarity can be selected at ROM mask.
16	OSCOOUT	Ext. terminal for sync sig. OSC. Circuit	O	Terminal for external use of sync signal OSC. circuit. Use the freq.: 14.32MHz at NTSC system, 17.73MHz at PAL. system, 14.30MHz at MPAL system.
17	OSCIN	Horizontal sync signal	I	Inputs horizontal sync signal. Hysteresis input.
18	HOR*	Horizontal sync signal	I	Inputs horizontal sync signal. Hysteresis input.
19	VERT*	Vertical sync signal	—	Input vertical sync signal. Hysteresis input. Polarity can be selected at ROM mask.
20	Vdd1	Power supply	I	Power supply terminal of digital system. Connect to +5V.

TC4094BF (MA: IC202, 203)



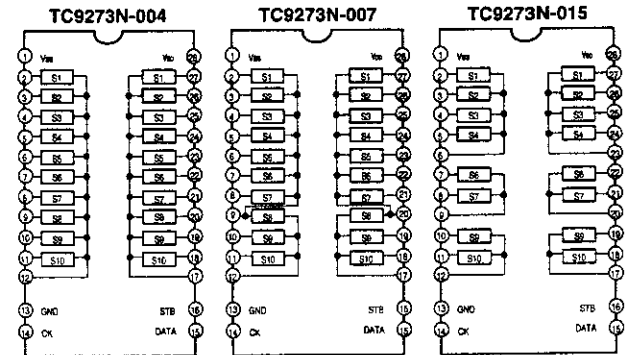
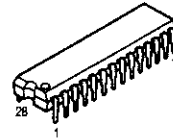
IC202

Port	Symbol	Function
Q1	INA	Video input switching
Q2	INB	Video input switching
Q3	INC	Video input switching
Q4	RECA	Video output switching
Q5	RECB	Video output switching
Q6	RECC	Video output switching
Q7	V-1	Video REC OUT INH control
Q8	V-2	Video REC OUT INH control

IC203

Port	Symbol	Function
Q1	—	Not used
Q2	F/SB SELECT	For main speaker select (L: Front, H: S. Back)
Q3	NU	Open (Fixed to L)
Q4	TONE_	Tone control (H: ON / DIRECT, THX, TEST TONE, PEAK LIMIT)
Q5	—	Not used
Q6	—	Not used
Q7	SP AGND	H: SURROUND SP A select only
Q8	DIRECT DVD/CD_	DIRECT DVD or CD switching (H: DVD analog direct)

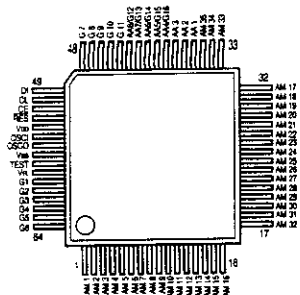
TC9273N-004 (AU: IC111)
TC9273N-007 (TO: IC705)
TC9273N-015 (EX: IC907-AVC-A10SE only)



TC9273N Terminal Function

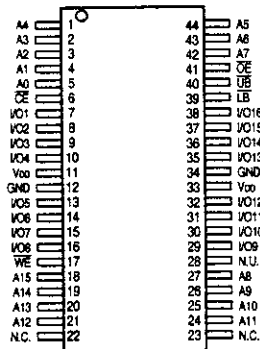
Pin No.	Symbol	Name	Function	Note
1	Vss	-Power Terminal	Dual Power Use: VDD = 8.0~17 V Single Power Use: VDD = 8.0~18V	—
13	GND	Digital Ground	GND = 0V	—
28	VDD	+Power Terminal	Vss = -8.0~17V	—
2~12 17~27	S1~11	I/O Terminal	Input terminal of analog switch.	—
14	CK	Clock Input	Clock input for data transfer.	Low level
15	DATA	Data Input	Serial input for switch setting.	Border Input
16	STB	Strobe Input	Strobe input for data writing.	Terminal

LC75721E (VI: IC102)



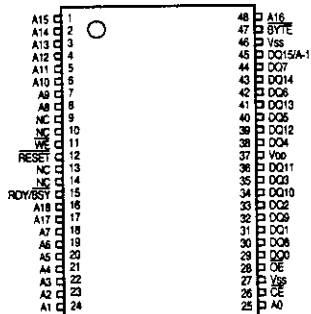
Symbol	Function
V _{DD}	Power terminal +5V
V _{SS}	Power terminal GND
V _{FL}	Power terminal FL drive
DI	Serial data transfer terminal
CL	DI: Data CL: Clock
CE	CE: Chip enable
OSCI	External CR connecting terminal
OSCO	
RES	System reset terminal
AM1~AM35	Anode output terminal
AA1~AA3	
AA4/G16	
AA5/G15	
AA6/G14	
AA7/G13	
AA8/G12	
G1~G11	
TEST	LSI test terminal

TC55V1664BFT-12 (DS: IC108, 112)



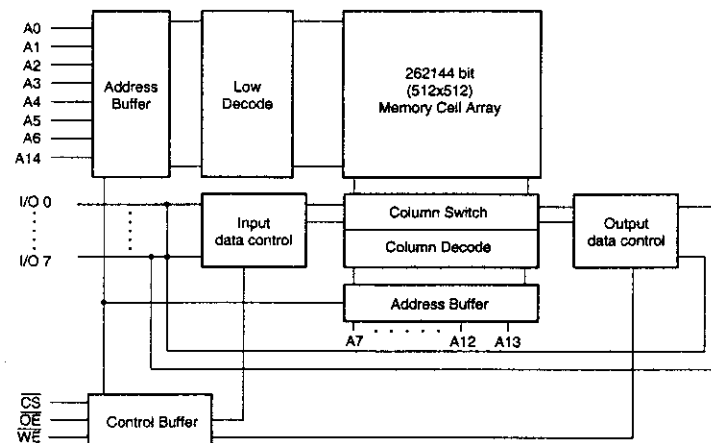
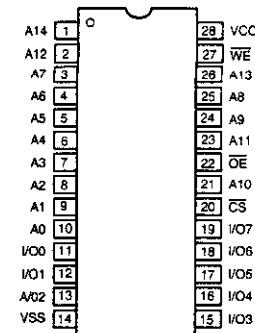
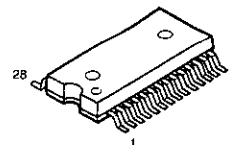
Symbol	Function
A0~A15	Address input
I/O0~I/O16	Data in/output
CE	Chip enable input
WE	Write enable input
OE	Output buffer control input
UB, UB	Data byte control input
V _{DD}	Power terminal (3.3V)
GND	GND
N.C.	No connection
N.U.	Unusable (input)

LH28F800BVE-BTL90 (DS: IC119)



Symbol	Function
A0~A18	Address input
DQ0~DQ14	Data in/output
DQ15/A-1	Data in/output / Address input
CE	Chip enable input
OE	Output enable input
WE	Word/byte select input
RDY/BSY	Ready/busy output
RESET	Hardware reset input
N.C.	No connection
V _{DD}	Power
V _{SS}	GND

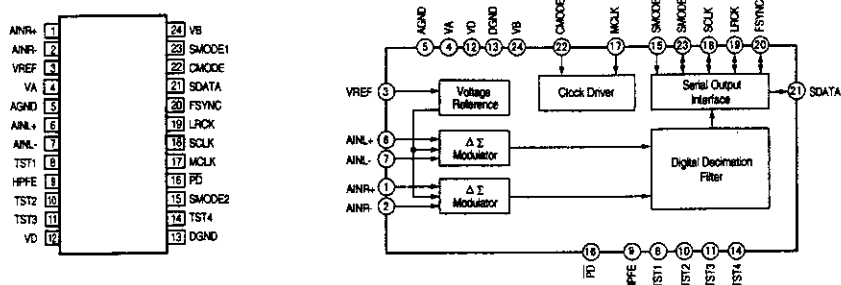
BR62256F-70LL (DS: IC516-AVC-A10SE only)



BR62256F-70LL Terminal Function

Pin No.	Symbol	I/O	Function
1~10	A0~A9	I	32k byte memory address input.
11~13	I/O0~I/O2	I/O	8 bit data input/output.
14	V _{SS}	—	GND
15~19	I/O3~I/O7	I/O	8 bit data input/output.
20	CS	I	Chip select control input.
21	A10	I	32k byte memory address input.
22	OE	I	Output enable control input.
23~26	A11~A14	I	32k byte memory address input.
27	WE	I	Write enable control input.
28	V _{CC}	—	+5V power supply.

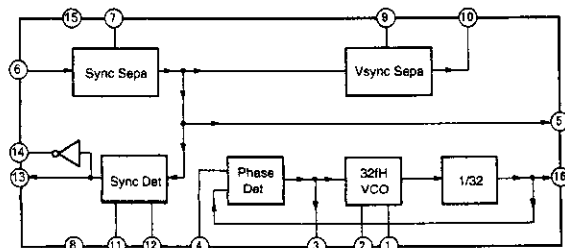
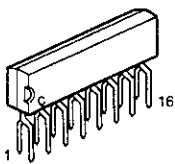
AK5351 (DS: IC527)



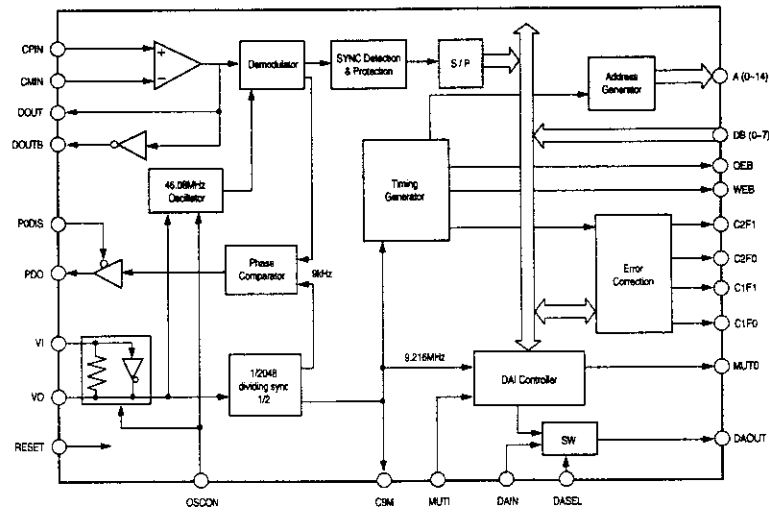
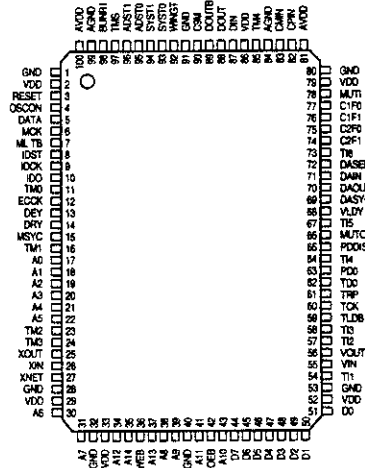
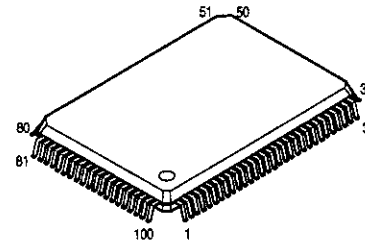
AK5351 Terminal Function

Pin No.	Symbol	I/O	Function
1	AINR+	I	Rich analog non-inverted input pin.
2	AINR-	I	Rich analog inverted input pin
3	VREF	O	Vref. output pin (VA-2.6V)
4	VA	—	Analog part power supply pin (+5V)
5	AGND	—	Analog ground pin
6	AINL+	I	Lch analog non-inverted input pin
7	AINL-	I	Lch analog inverted input pin
8	TST1	—	Test pin
9	HPFE	I	Hi-pass filter enable pin, "H": ON, "L": OFF
10	TST2	—	Test pin
11	TEST3	—	Test pin
12	VD	—	Digital part power supply pin (+5V)
13	DGND	—	Digital ground pin
14	TST4	—	Test pin
15	SMODE2	I	Interface clock select pin
16	PD	I	Power down pin, "L": power down mode
17	MCLK	I	Master clock input pin, CMODE="H": 384fs, "L": 256fs
18	SCLK	I/O	Serial data clock pin
19	LRCK	I/O	Input channel select pin
20	FSYNC	I/O	Frame sync clock pin
21	SDATA	O	Serial data output pin
22	CMODE	I	Master clock select pin, "H": MCLK=384fs, "L": 256fs
23	SMODE2	I	Interface clock select pin
24	VB	—	Bulk power supply pin (+5V)

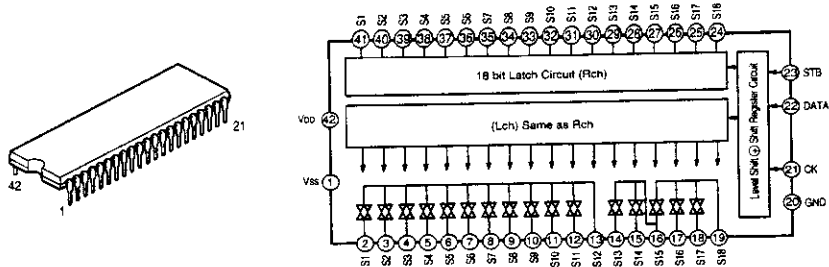
NJM2229S (VI: IC312)



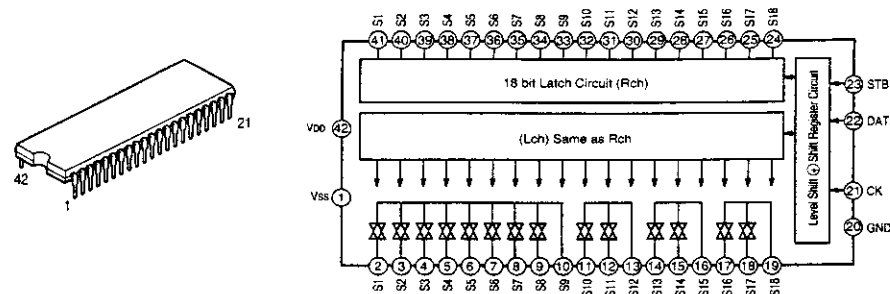
PM4007A (DS: IC512-AVC-A10SE only)



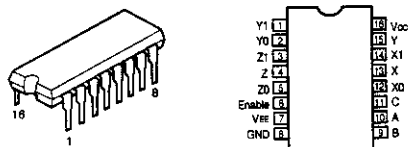
TC9274N-011 (AU: IC110)



TC9274N-012 (EX: IC906)



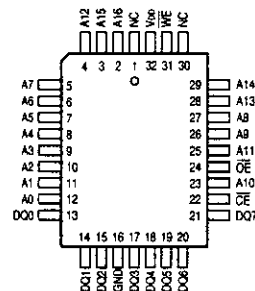
MC74HC4053N (VI: IC309)



Control inputs	Select				ON Switches		
	Enable	C	B	A	Z0	Y0	X0
L	L	L	L	L	Z0	Y0	X0
L	L	L	L	H	Z0	Y0	X1
L	L	L	H	L	Z0	Y1	X0
L	L	L	H	H	Z0	Y1	X1
L	H	L	L	L	Z1	Y0	X0
L	H	L	L	Z1	Y0	X1	
L	H	L	H	L	Z1	Y1	X0
L	H	L	H	Z1	Y1	X1	
H	X	X	X	X			None

X = Don't Care

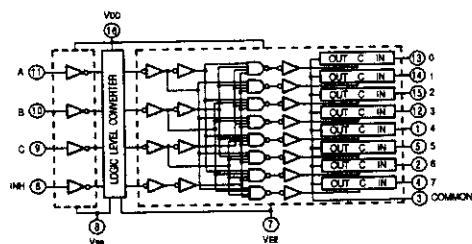
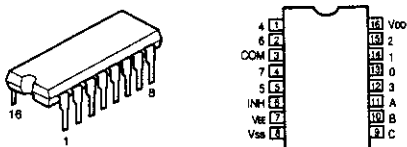
W29EE011P-90 (DS: IC303)



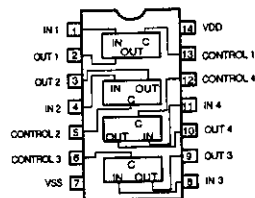
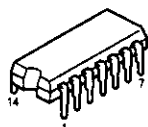
Terminal Function

Name	Function
A0 - A16	Address input
DQ0 - DQ7	Data in/output
CE	Chip enable
OE	Output enable
WE	Write enable
V _{DD}	Power terminal
GND	GND
NC	No connection

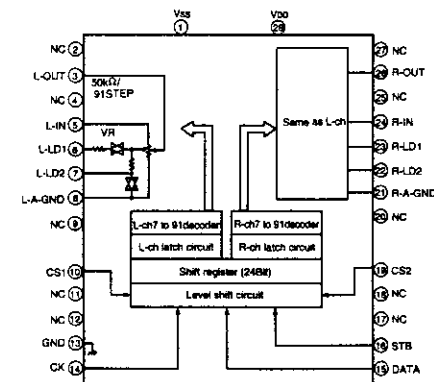
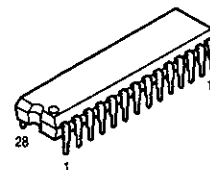
BU4051BC (VI: 304, 305, 403, 404, 407, 408)



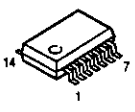
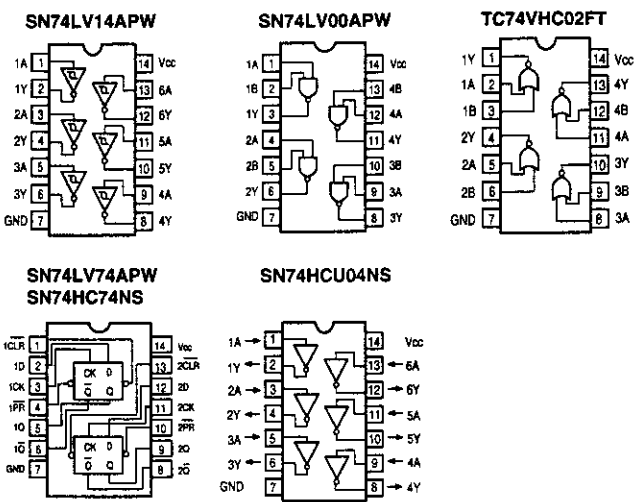
HD14066BP (VI: IC307, 411)



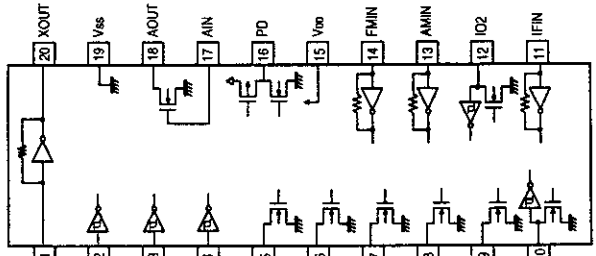
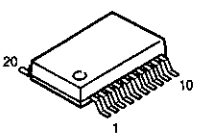
TC9459N (EX: IC505-508)



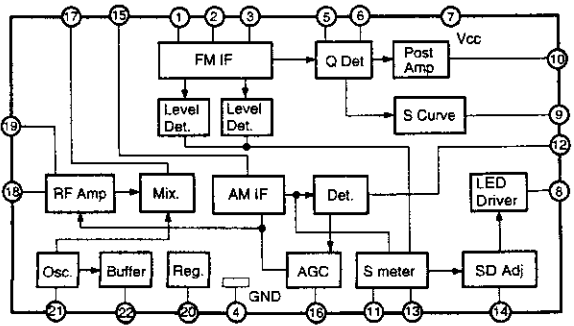
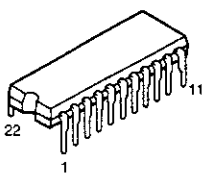
SN74LV14APW
(DS: IC530, 532)
SN74LV00APW
(DS: IC102, 122, 524, 529)
TC74VHC02FT
(DS: IC109)
SN74LV74APW
(DS: IC105)
SN74HC74NS
(DA: IC302)
SN74HCU04NS
(TO: IC471)



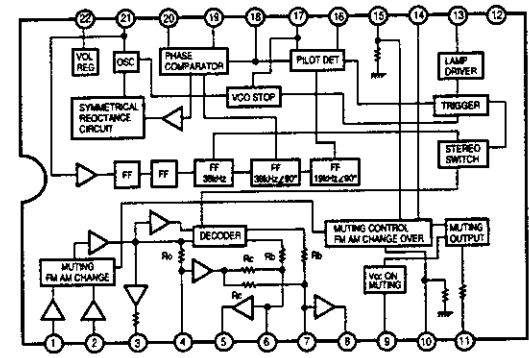
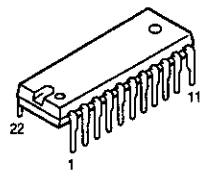
LC72131M (TU: IC307-AVR-4800 only)



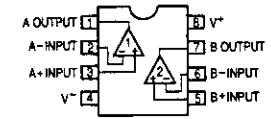
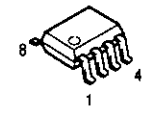
LA1265 (S) (TU: IC303-AVR-4800 only)



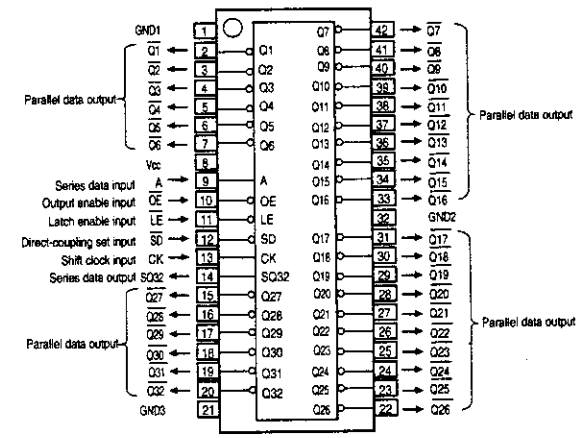
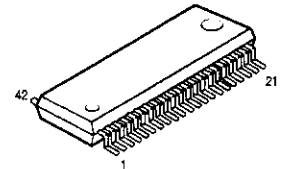
LA3401
(TU: IC302-AVR-4800 only)



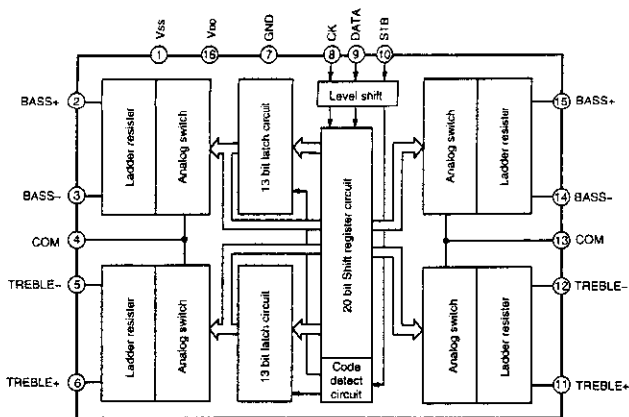
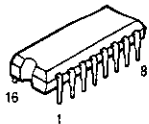
BA15218F (TU: IC310-AVR-4800 only, TO: IC609, 901)
NJM2068MD
(AU: IC101-109, 112, 251, 253)
(MA: IC204)
(DA: IC701-704, 801-804)
(TO: IC701-704, 801)
(EX: IC801-803, 807, 901-904)
BA4510F (DS: IC651, 652)
NJM5532MD
(TO: IC601, 603)
(EX: IC601, 603, 605, 607)
(DA: IC801-804)



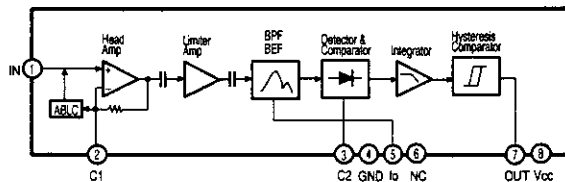
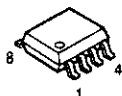
M66313FP (VI: IC101)



TC9184AP (TO: IC602, 604)

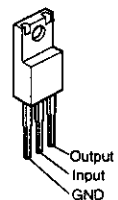
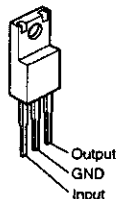


CXA1511M (RE:IC908)

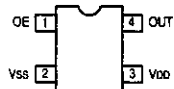
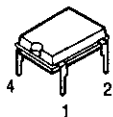


- BA033T (MA:IC903)
- NJM7805FA (S) (TU:IC913)
- (MA:IC601,906)
- NJM7806FA (S) (MA:IC904)
- (RE:IC701)
- NJM7812FA (S) (MA:IC291-AVR-4800only)
- NJM7815FA (S) (TU:IC911)

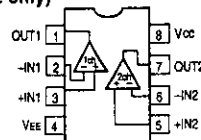
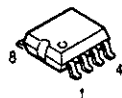
- NJM7905FA (MA:IC902-AVC-A10SE only)
- NJM7906FA (MA:IC905)
- NJM7915FA (TU:IC912)



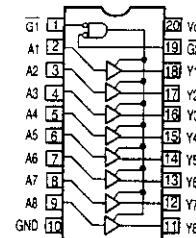
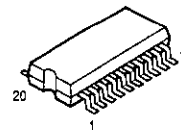
SG-8002DCPT (12.287MHz) (DS:IC528)



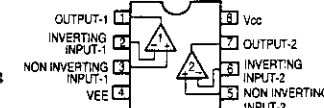
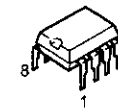
BA4560F (DS:IC511-AVC-A10SE only)



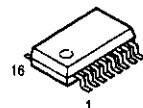
TC74VHC541FT (DS: IC114)
TC74VHC7541AFT (DS: IC116)



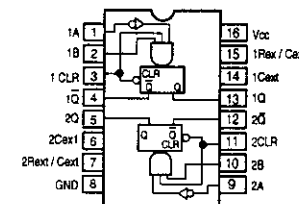
TK15420D (VI: IC301, 302, 308, 311, 401, 402, 406, 409, 412, 413) (RE: IC372, 373) (DS: IC507)



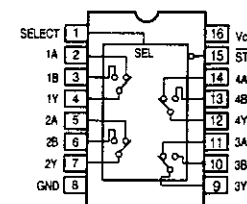
TC74VHC123AFT (DS: IC517, 523)
SN74AHC157PW (DS: IC525)
TC74HCT157AF (DA: IC301, 303)
SN74HC151NS (DS: IC509, 510, 513)



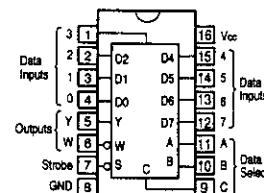
TC74VHC123AFT



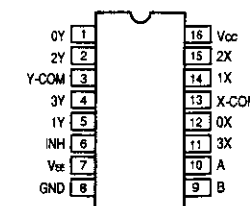
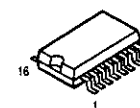
SN74AHC157PW
TC74HCT157AF



SN74HC151NS

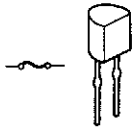


TC4052BF (RE: IC371, 374)



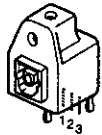
● IC PROTECTOR

ICP-N15 (RE: IC702)

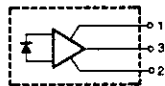


● OPTICAL

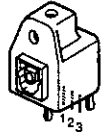
INPUT
GP1F37R1 (DS: IC501-505)



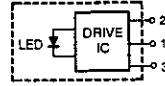
1. Vcc
2. GND
3. Vout



OUTPUT
GP1F38T2 (DS: IC506)

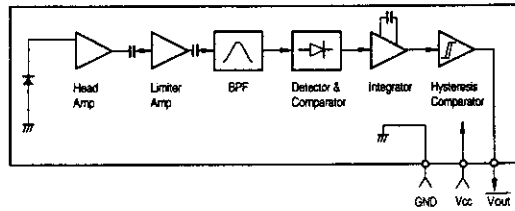
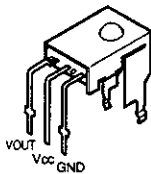


1. Vin
2. Vcc
3. GND

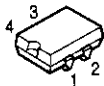


● OTHERS

GP1U271X (Remote Control Sensor)
(TO: IC401)



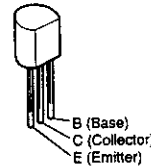
HG-8002JA (X'tal Oscillator)
(DS: IC115)



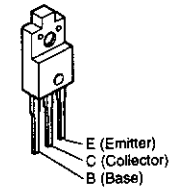
1. OE or ST
2. GND
3. OUT
4. Vcc

● TRANSISTORS

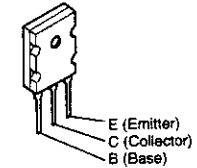
2SA970 (BL)
2SA988 (E/F)
2PC1815 (BL)
2SC1841 (E/F)



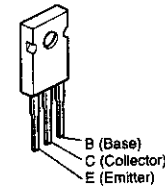
2SD1762 (E/F)



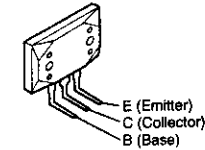
2SA1489
2SA1491
2SC3855



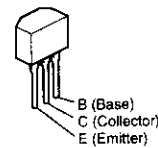
2SA1546 (L)
2SC4001 (M/L)



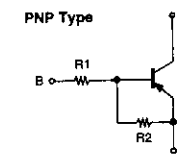
MN1715
MP1715



DTA114ES
DTC143ES
DTC144ES

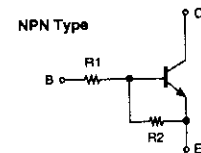


DTA114ES



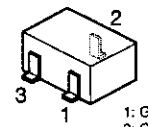
	R1	R2
DTA114ES	10kohm	10kohm

DTC143ES
DTC144ES



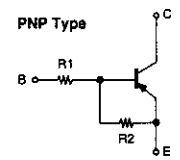
	R1	R2
DTC143ES	4.7kohm	4.7kohm
DTC144ES	47kohm	47kohm

DTA114EK
 DTA114TK (AVR-4800only)
 DTA144EK
 DTC114EK
 DTC144EK
 DTC323TK (AVR-4800only)
 RN2402 (AVR-4800only)



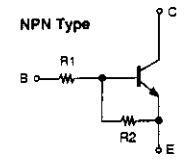
1: GND/(Emitter)
 2: Output/(Collector)
 3: Input/(Base)

DTA114EK
 DTA114TK
 DTA144EK
 RN2402



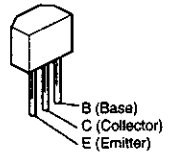
	R1	R2
DTA114EK	10kohm	10kohm
DTA114TK	10kohm	—
DTA144EK	47kohm	47kohm
RN2402	10kohm	10kohm

DTC114EK
 DTC144EK
 DTC323TK

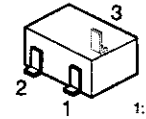


	R1	R2
DTC114EK	10kohm	10kohm
DTC144EK	47kohm	47kohm
DTC323TK	2.2kohm	—

2SC1740S (S)

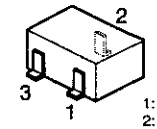


2SK771



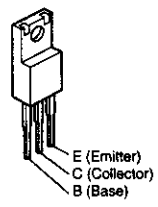
1: (Drain)
 2: (Source)
 3: (Gate)

2SA1037K (S/R)
 2SA1182 (Y/O)
 2SB709A
 2SC2412K (S)
 2SD601A
 2SC2996
 2SC3326 (A/B)

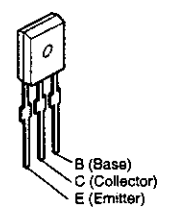


1: (Emitter)
 2: (Collector)
 3: (Base)

2SA1725 (O/P/Y)
 2SC4495
 2SC4511 (O/P/Y)

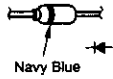


2SB1328



● DIODES (LED Included)

1SS270A

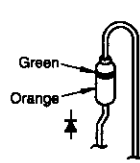


HZS4C-1 HZS16-1
 HZS5A-1 MTZJ9.1A
 HZS12A-1 MTZJ18A
 MTZJ3.3A MTZJ36A
 MTZJ5.6A
 MTZJ6.2A
 MTZJ6.8A

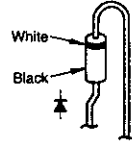


Lake Blue (HZS series)
 Black (MTZJ series)

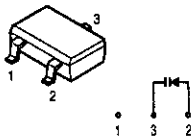
1SR35-400A



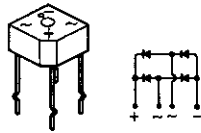
DSM1D2 (Type3)



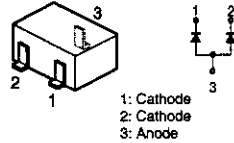
KV1851-TL



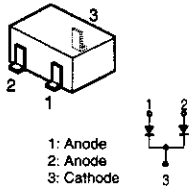
S4VB20



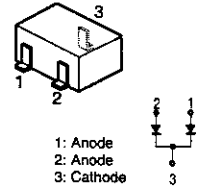
DAP202K



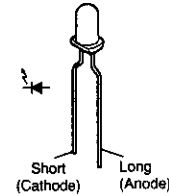
DAN202K



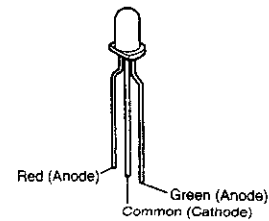
MA151WK



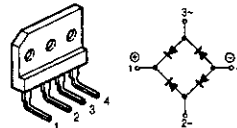
SEL1210S (Red)
 SEL-1210R (Red)
 SEL1410E (Green)
 SEL-4214S



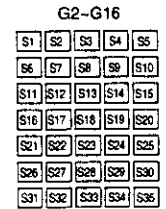
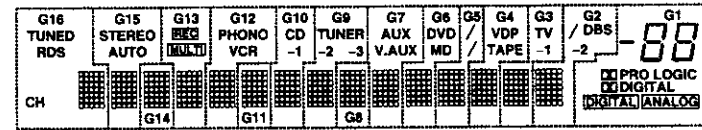
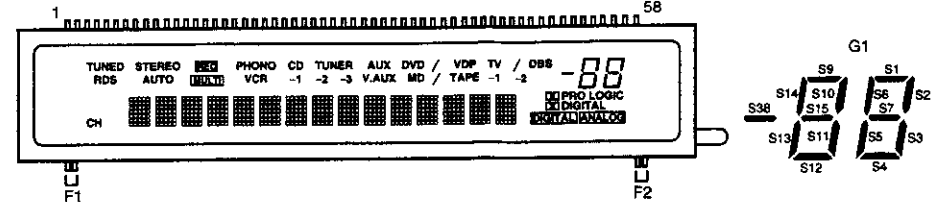
SML1216W



RBV-1506



FL DISPLAY CM1690C (VI : FL101)



Pin Assignment

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CONNECTION	F1	F1	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18
PIN NO.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CONNECTION	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38
PIN NO.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58		
CONNECTION	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	F2	F2		

F1,F2 : Filament
 G1-G16 : Grid
 S1-S38 : Anode

Anode & Grid Assignment

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16
S1	S1	S1	S10	S10	S10	S19	---	S19	S28	---	S28					
S2	S2	S2	S11	S11	S11	S20	---	S20	S29	---	S29					
S3	S3	S3	S12	S12	S12	S21	---	S21	S30	---	S30					
S4	S4	S4	S13	S13	S13	S22	---	S22	S31	---	S31					
S5	S5	S5	S14	S14	S14	S23	---	S23	S32	---	S32					
S6	S6	S6	S15	S15	S15	S24	---	S24	S33	---	S33					
S7	S7	S7	S16	---	S16	S25	---	S25	S34	---	S34					
S8	---	S8	S17	DDIGITAL	S17	S26	---	S26	S35	---	S35					
S9	S9	S9	S18	DDPROLOGIC	S18	S27	---	S27								

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16
S36	DIGITAL	/	TV	VDP	/(DVD)	DVD	AUX	---	TUNER	CD	---	PHONO	REC	---	STEREO	TUNED
S37	ANALOG	-2	-1	TAPE	/(MD)	MD	V.MAX	---	-2	-1	---	VCR	MULTI	---	AUTO	RDS
S38	S38	DBS	---	---	---	---	---	---	-3	---	---	---	---	---	---	CH

PRINTED WIRING BOARDS

1 2 3 4 5 6 7 8

1U-3124 AUDIO IN & SP P.W.B. UNIT Ass'y

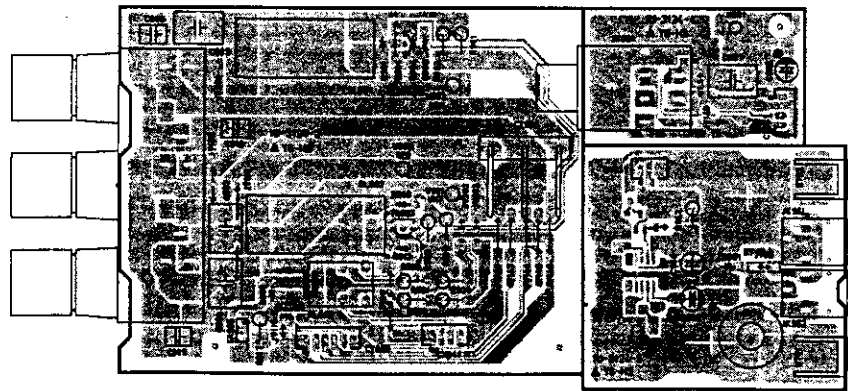
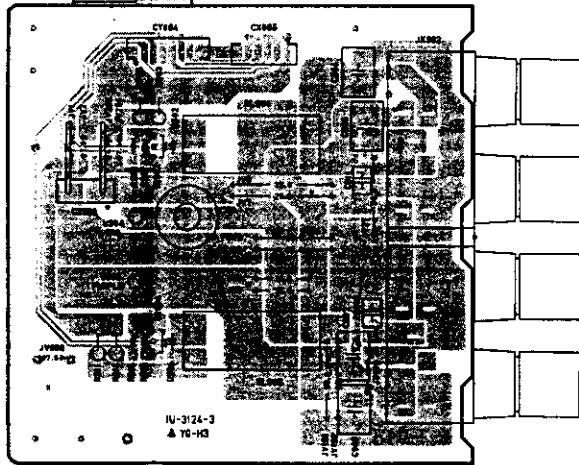
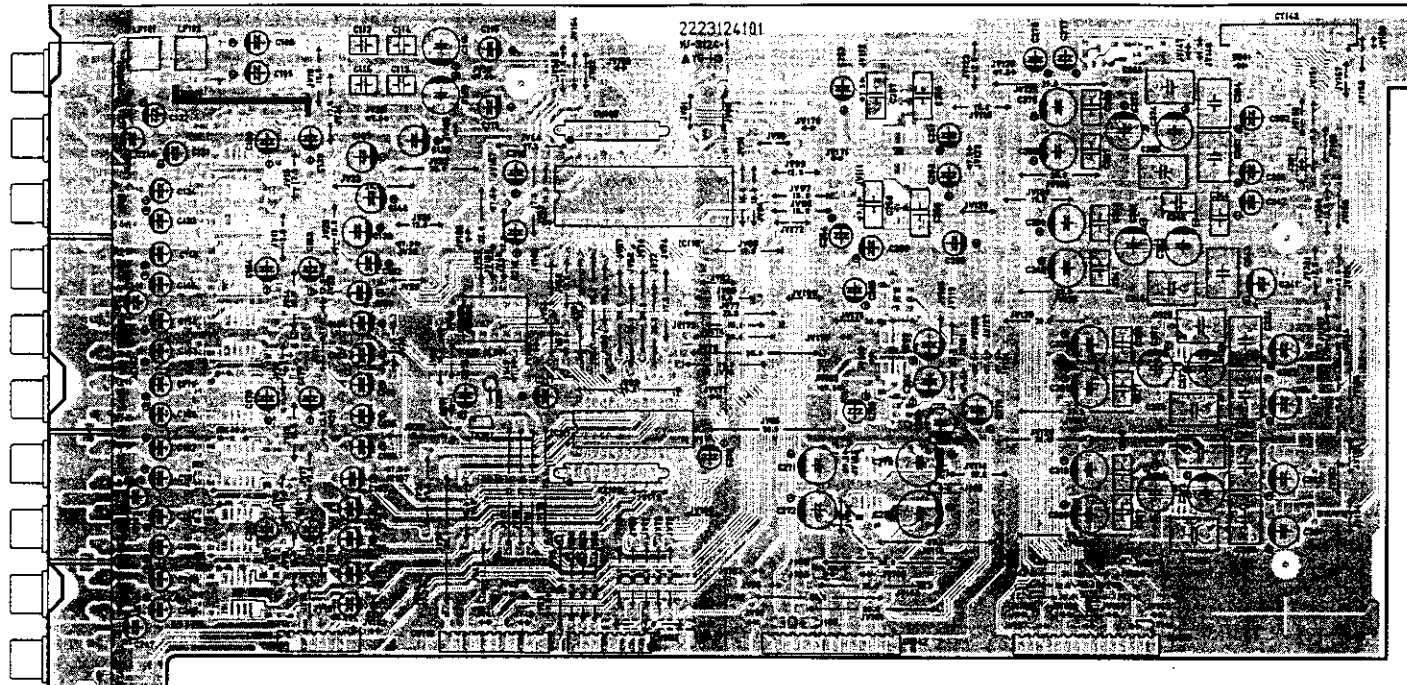
A

B

C

D

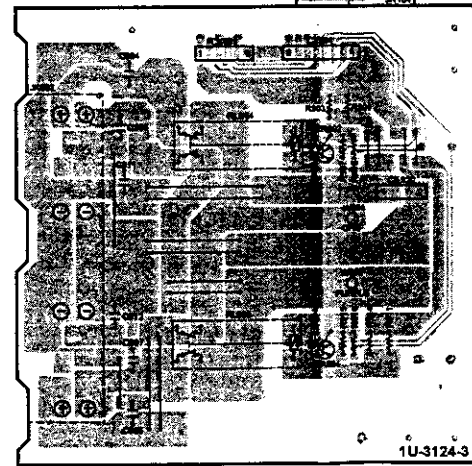
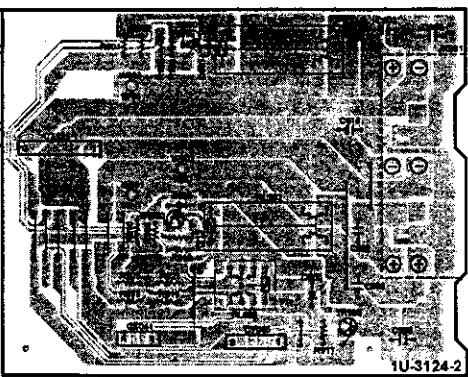
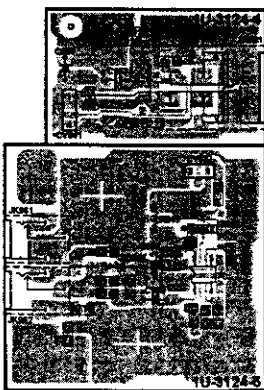
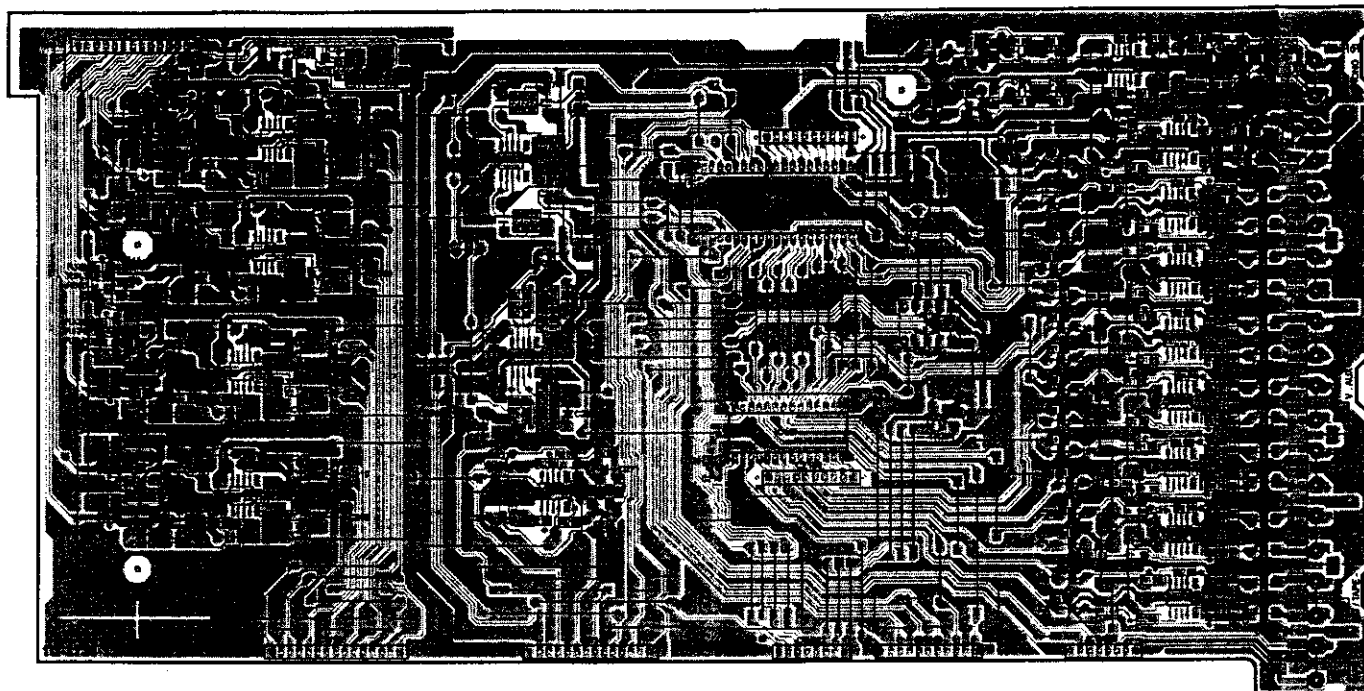
E



COMPONENT SIDE

1 2 3 4 5 6 7 8

A
B
C
D
E



FOIL SIDE

1

2

3

4

5

6

7

8

1U-3125 VIDEO & FLD UNIT

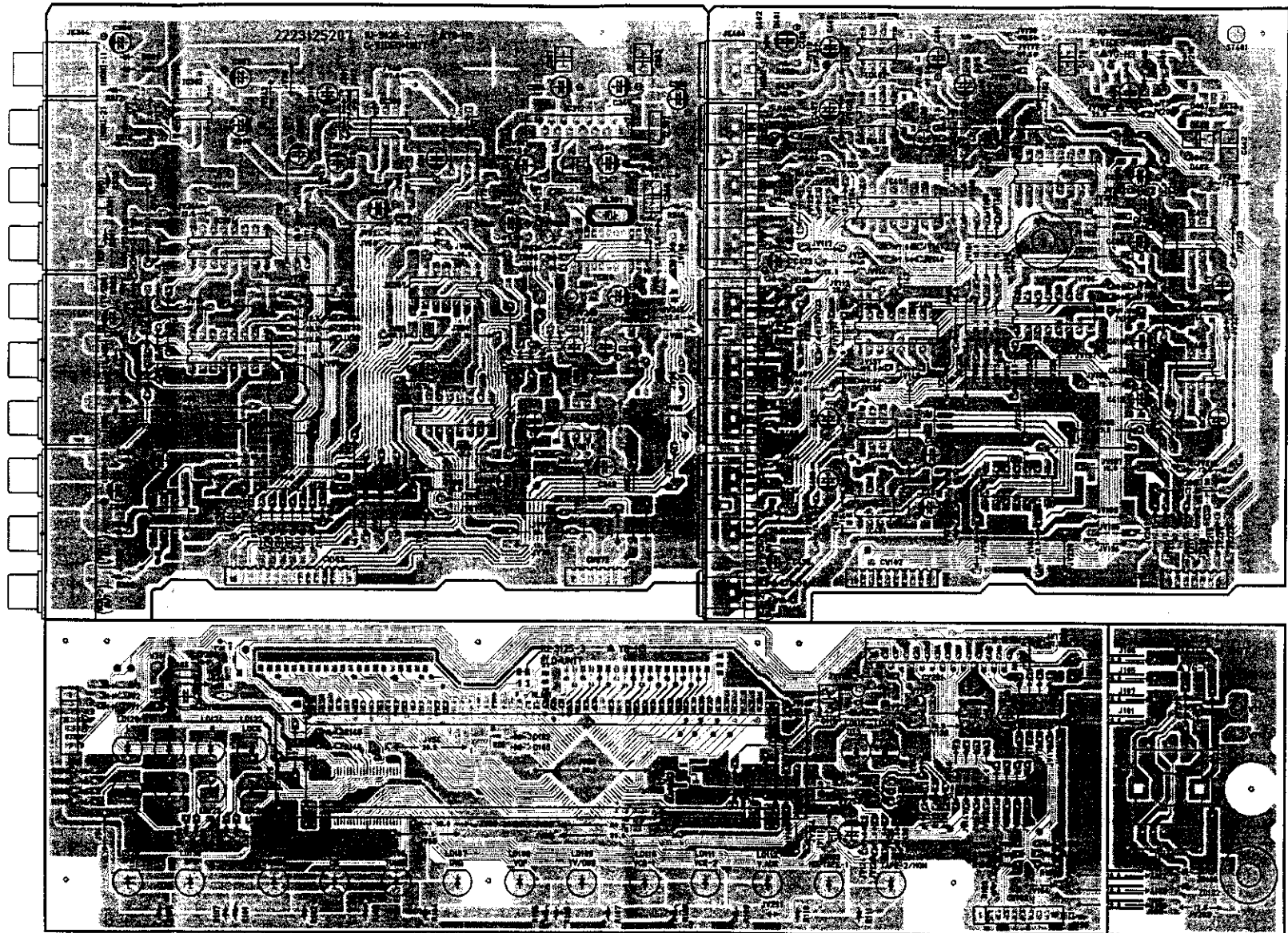
A

B

C

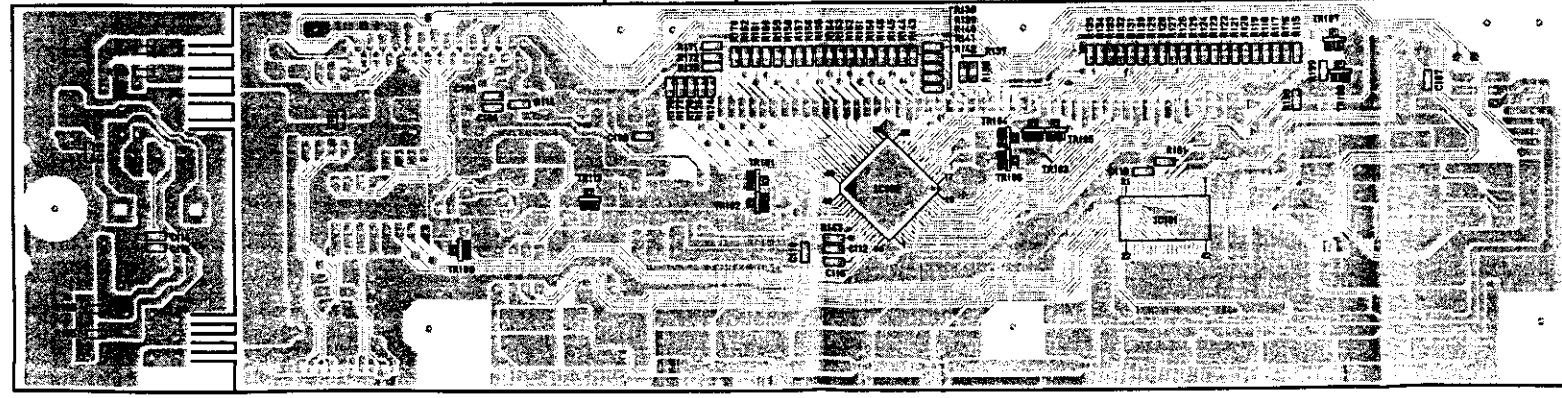
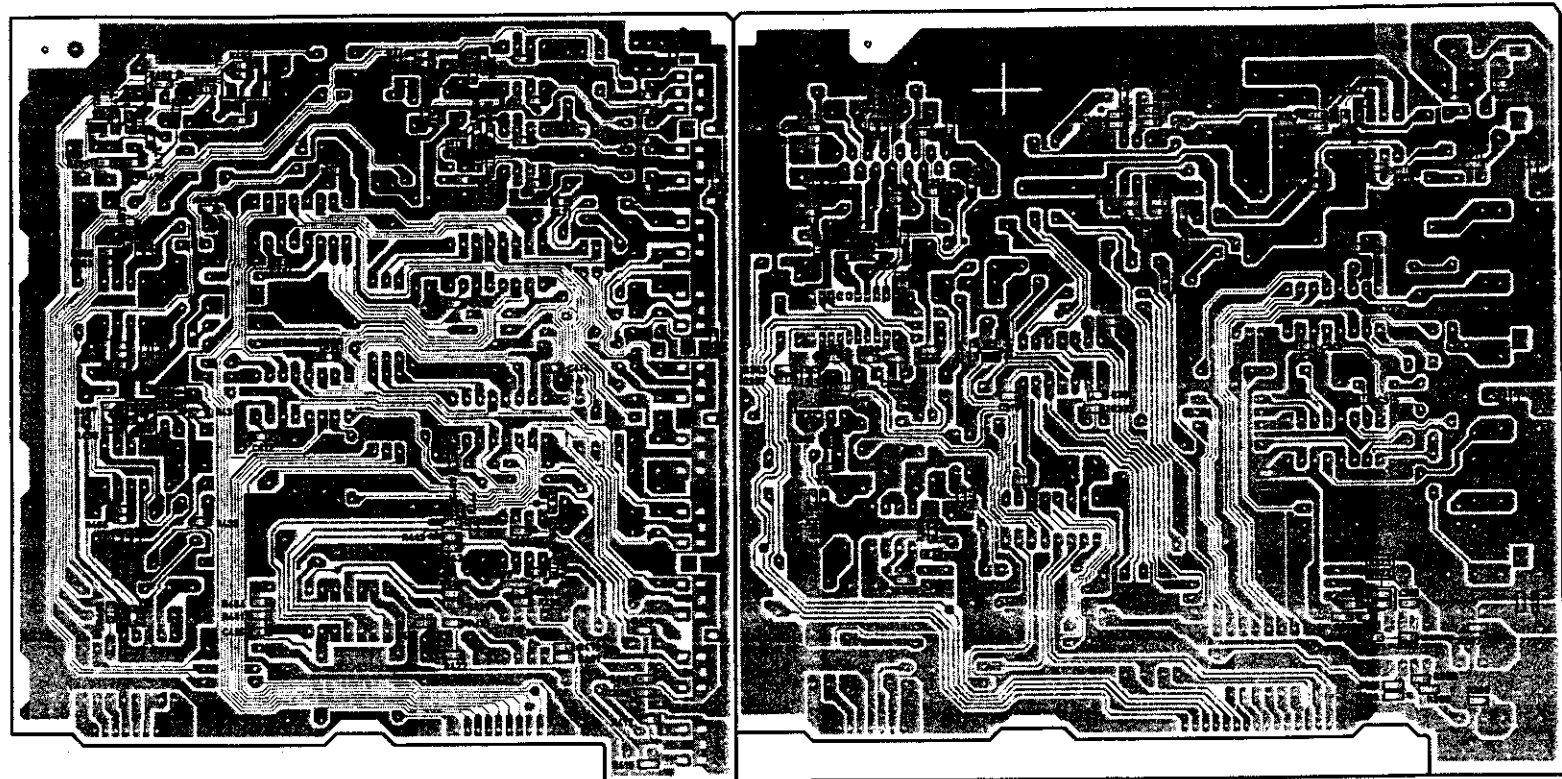
D

E



COMPONENT SIDE

1 2 3 4 5 6 7 8



FOIL SIDE

A
B
C
D
E

1 2 3 4 5 6 7 8

1U-3126 TUNER & AMP UNIT

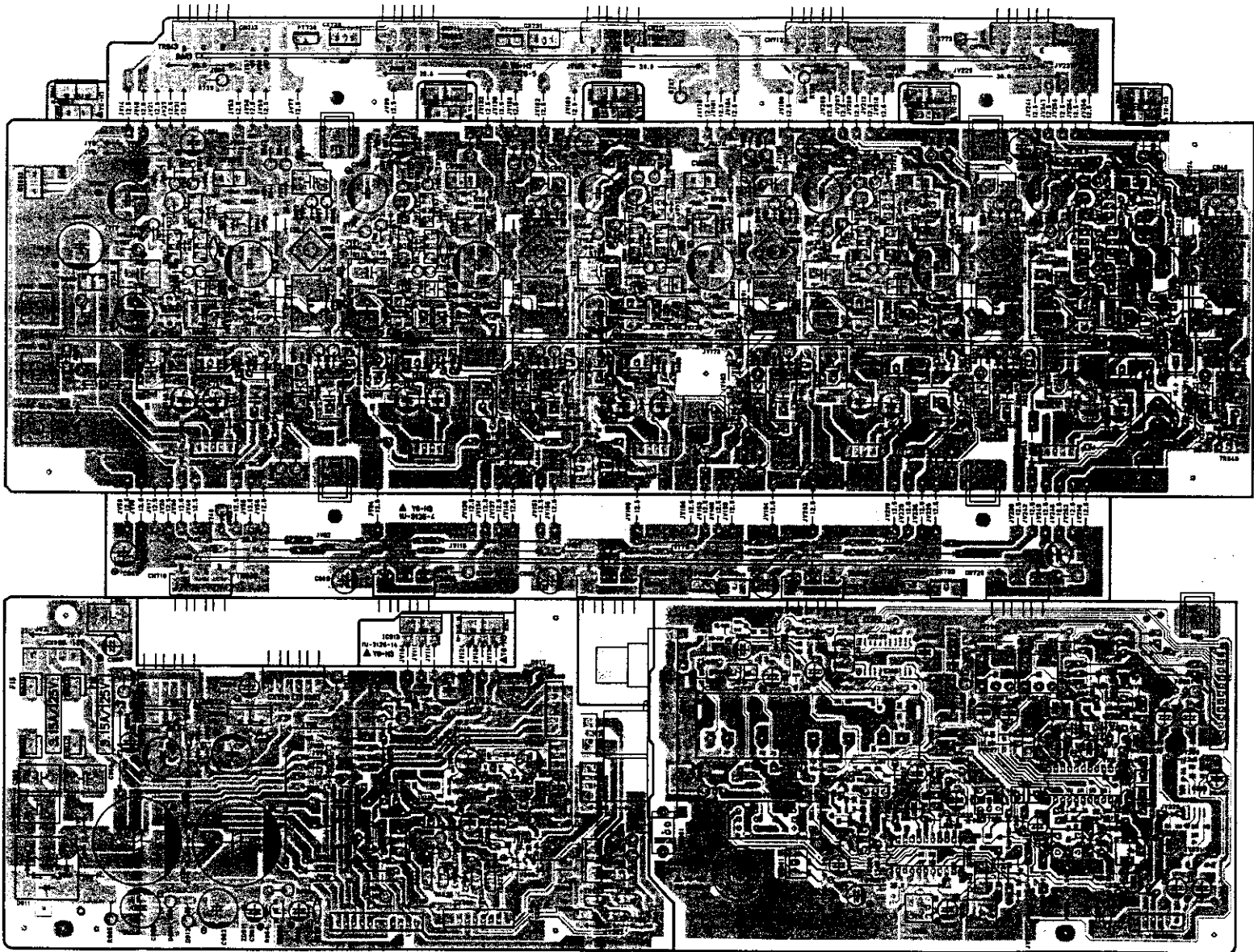
A

B

C

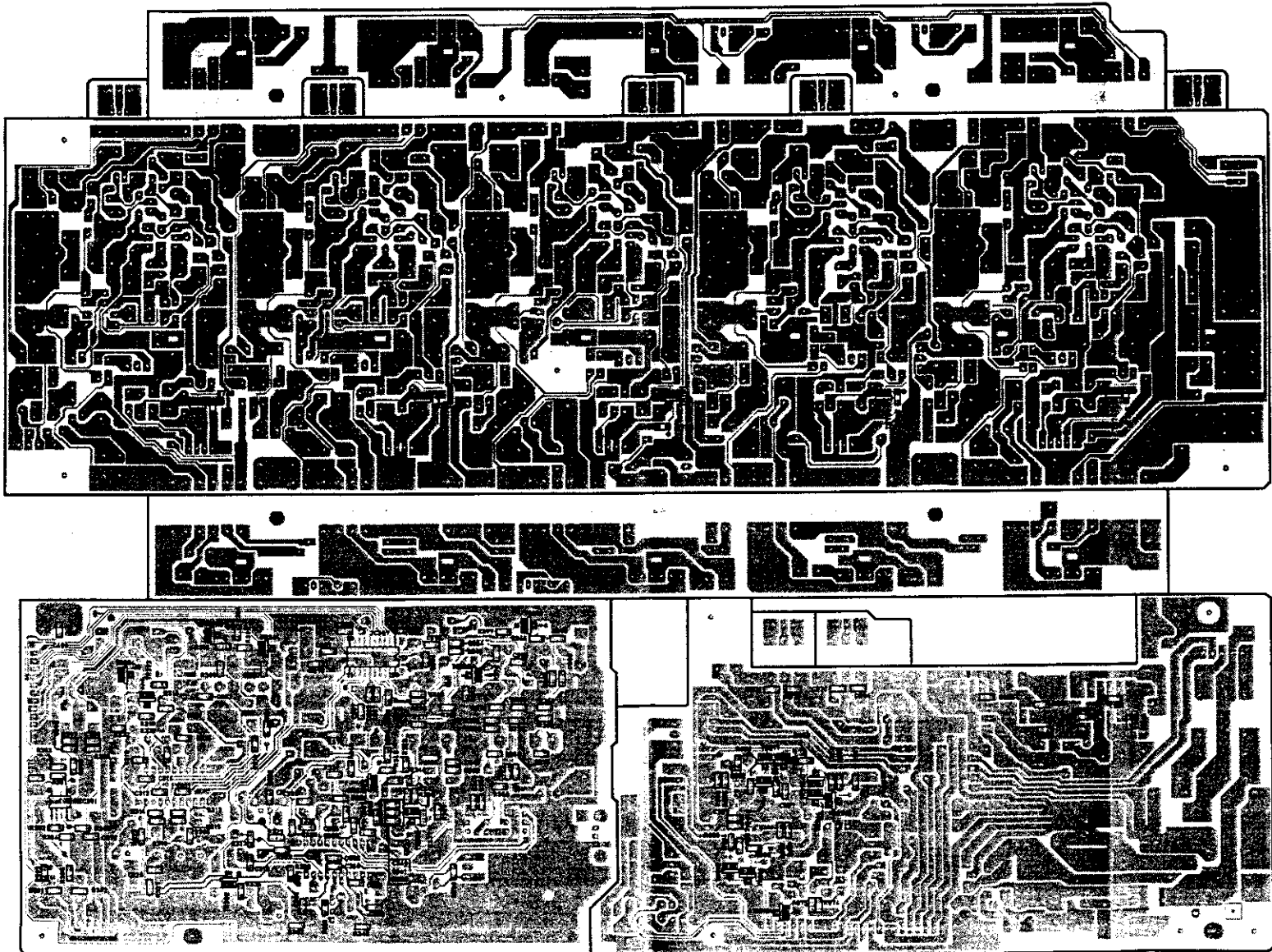
D

E



COMPONENT SIDE

1 2 3 4 5 6 7 8



A
B
C
D
E

FOIL SIDE

1

2

3

4

5

6

7

8

1U-3127 MAIN & REG. UNIT

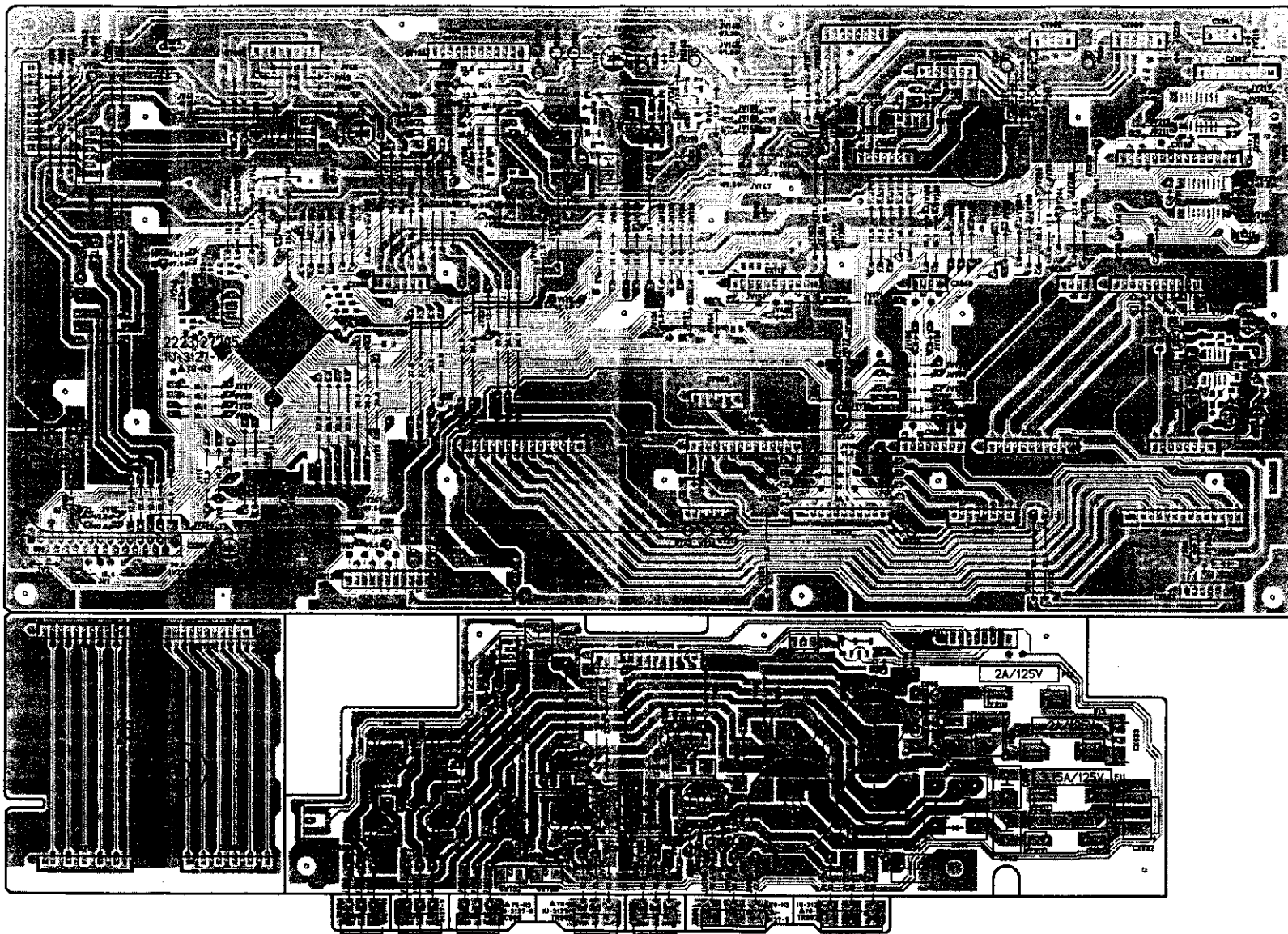
A

B

C

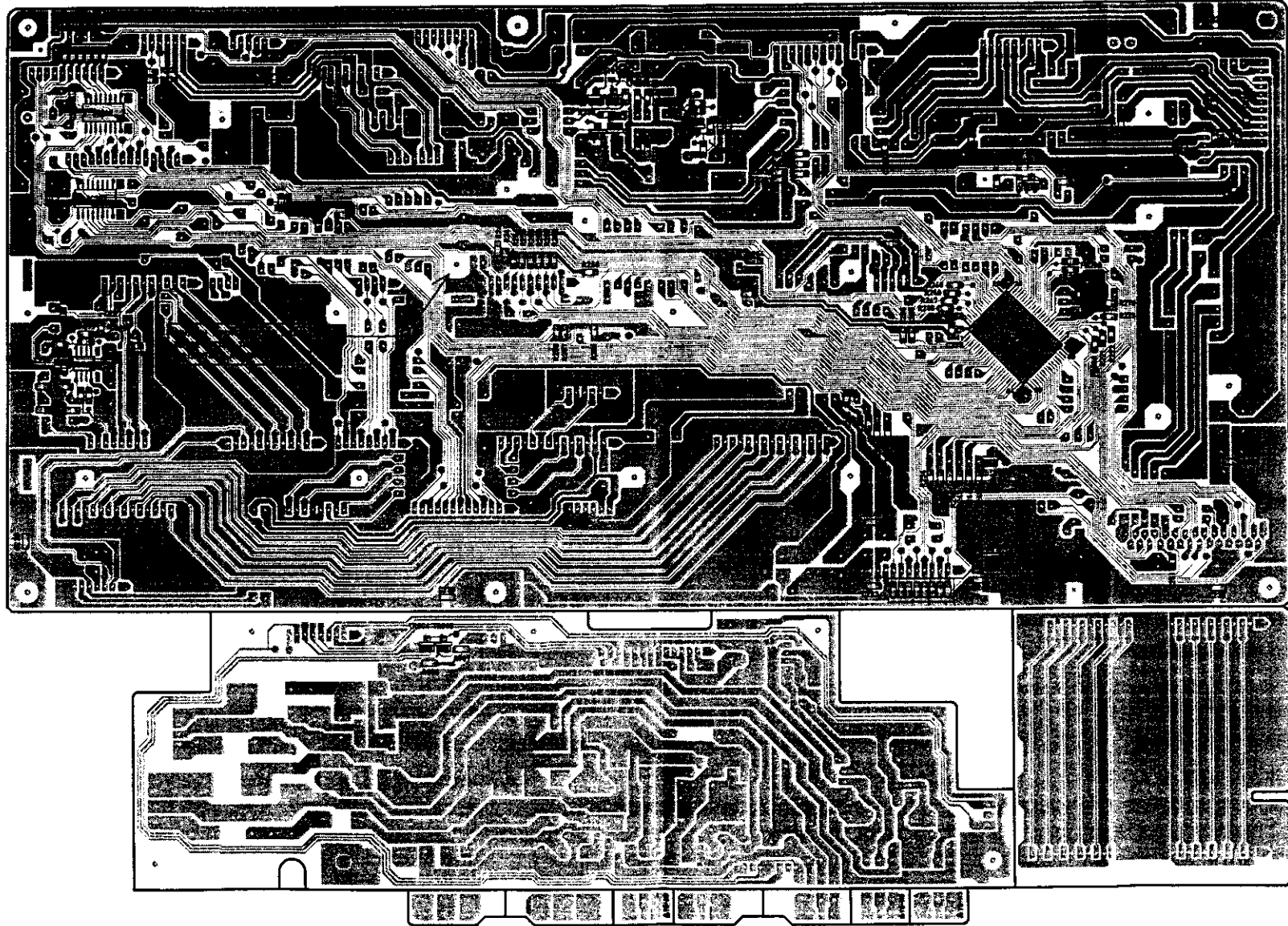
D

E



COMPONENT SIDE

1 2 3 4 5 6 7 8



FOIL SIDE

1

2

3

4

5

6

7

8

1U-3128 RECTIFIER & PRI. UNIT

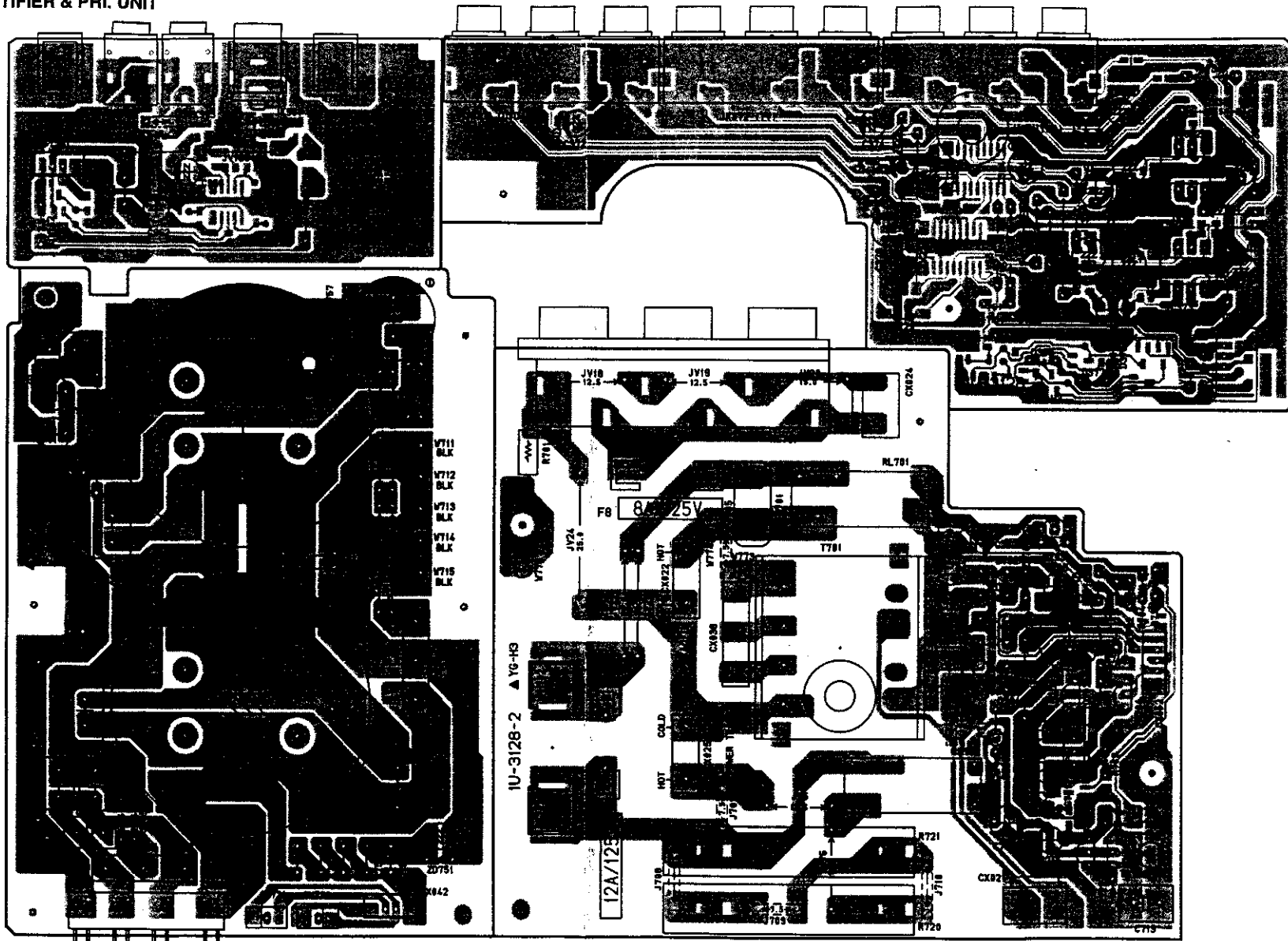
A

B

C

D

E



COMPONENT SIDE

1 2 3 4 5 6 7 8

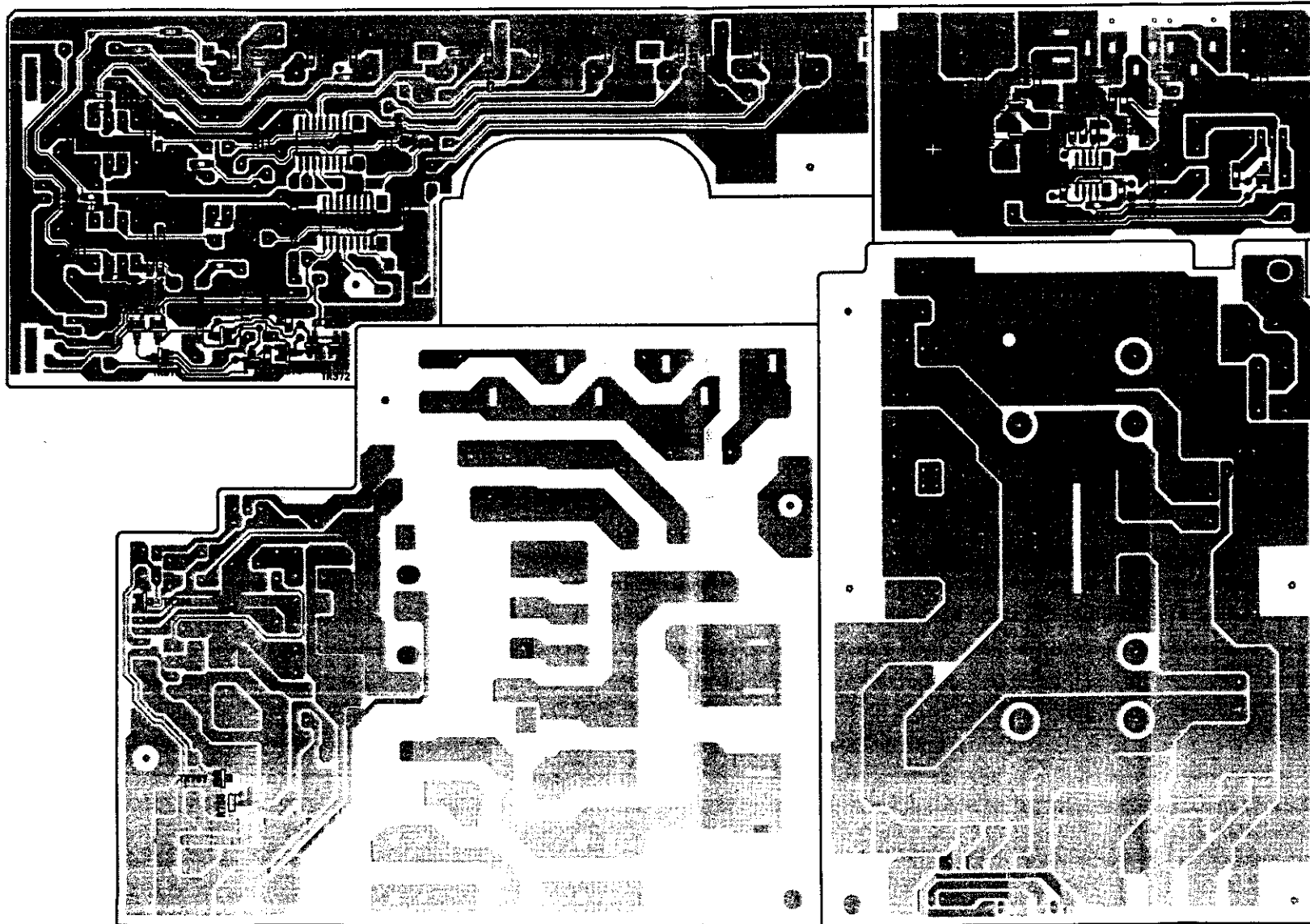
A

B

C

D

E

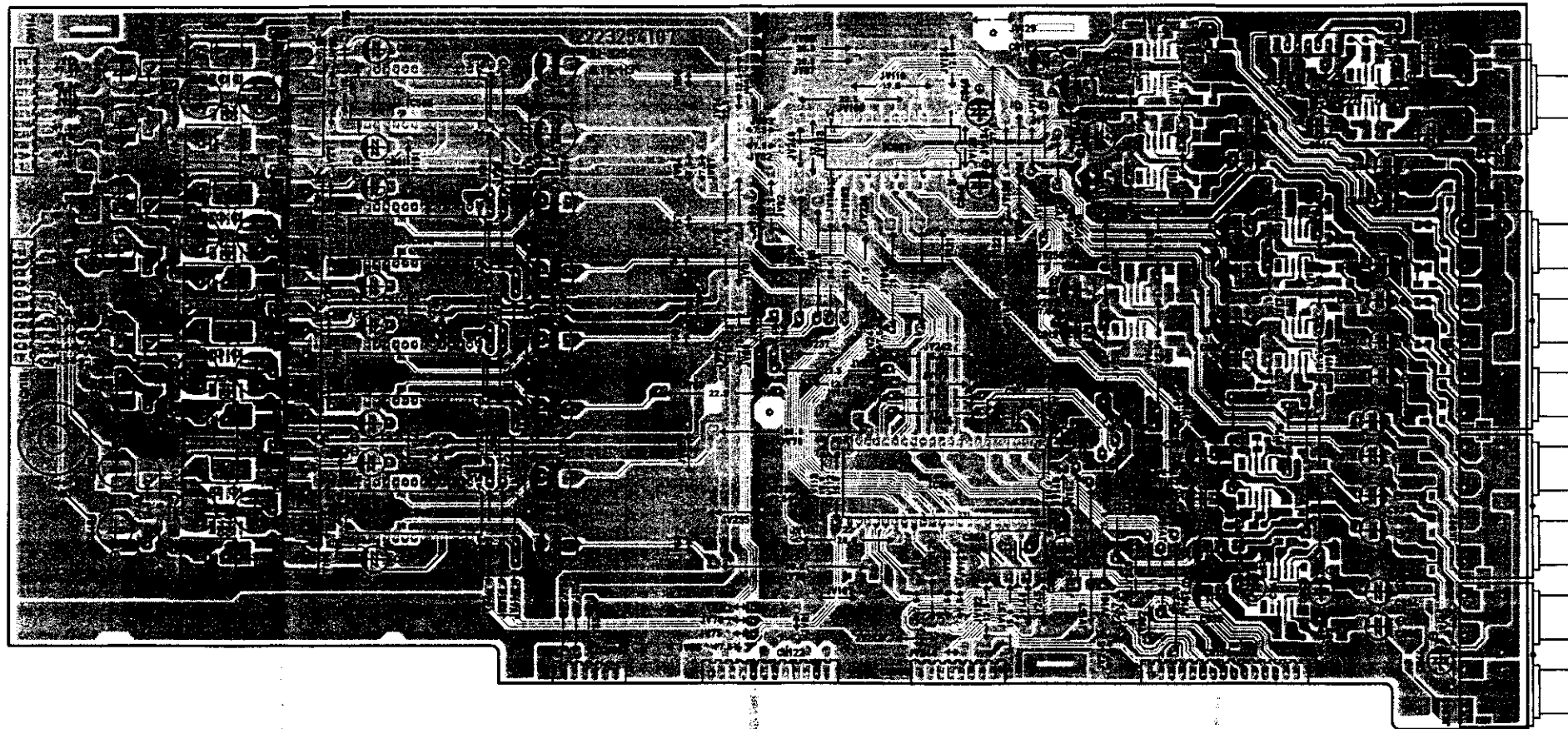


FOIL SIDE

1 2 3 4 5 6 7 8

1U-3254 EXT IN UNIT

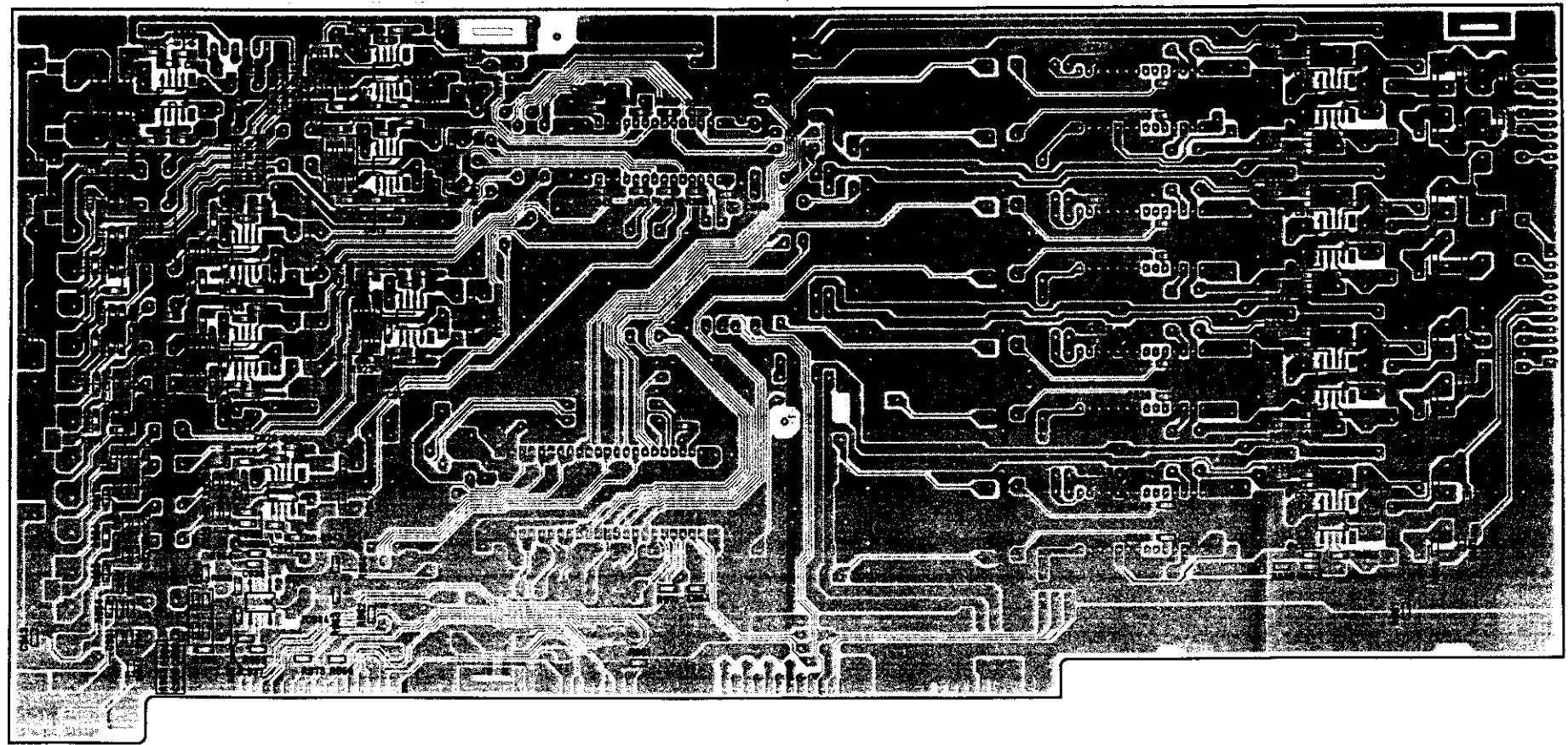
A
B
C
D
E



COMPONENT SIDE

1 2 3 4 5 6 7 8

A
B
C
D
E



FOIL SIDE

1 2 3 4 5 6 7 8

1U-3274 D/A UNIT

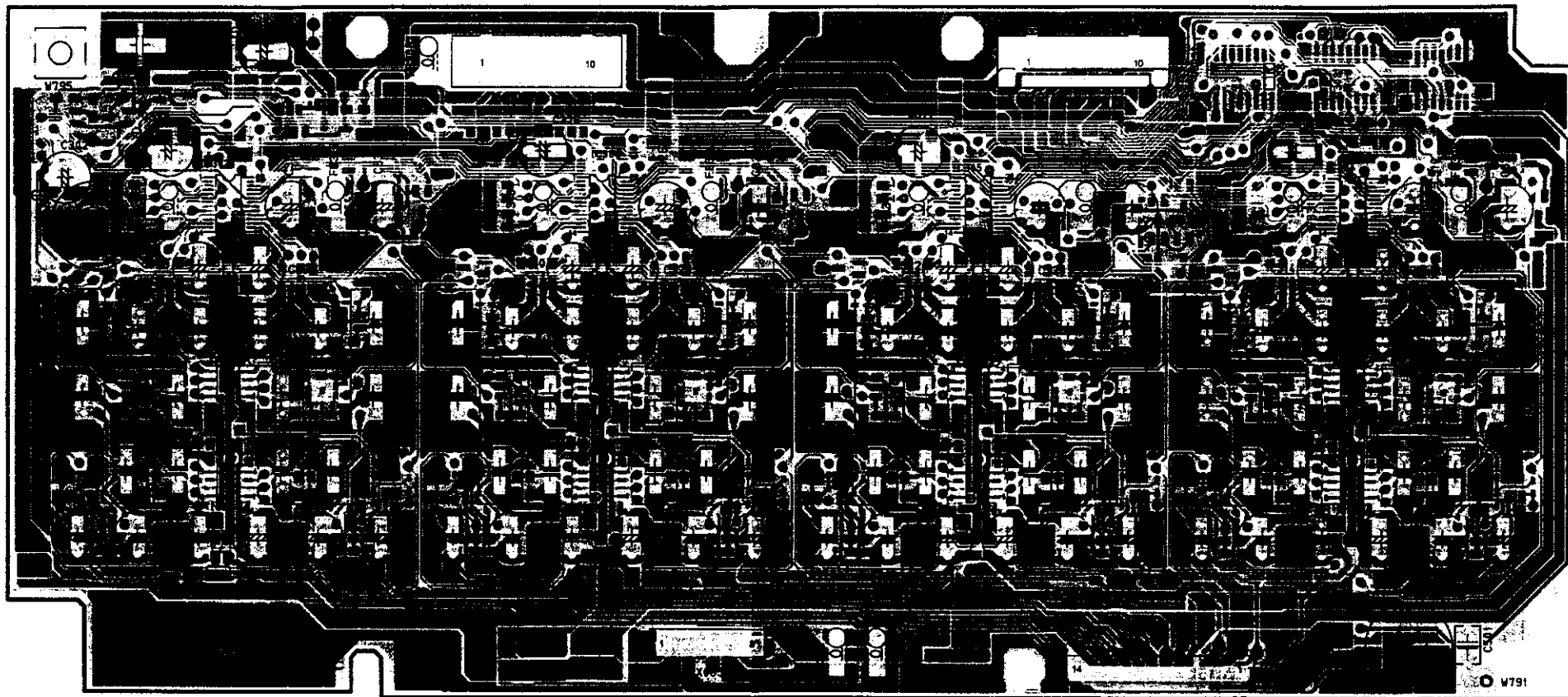
A

B

C

D

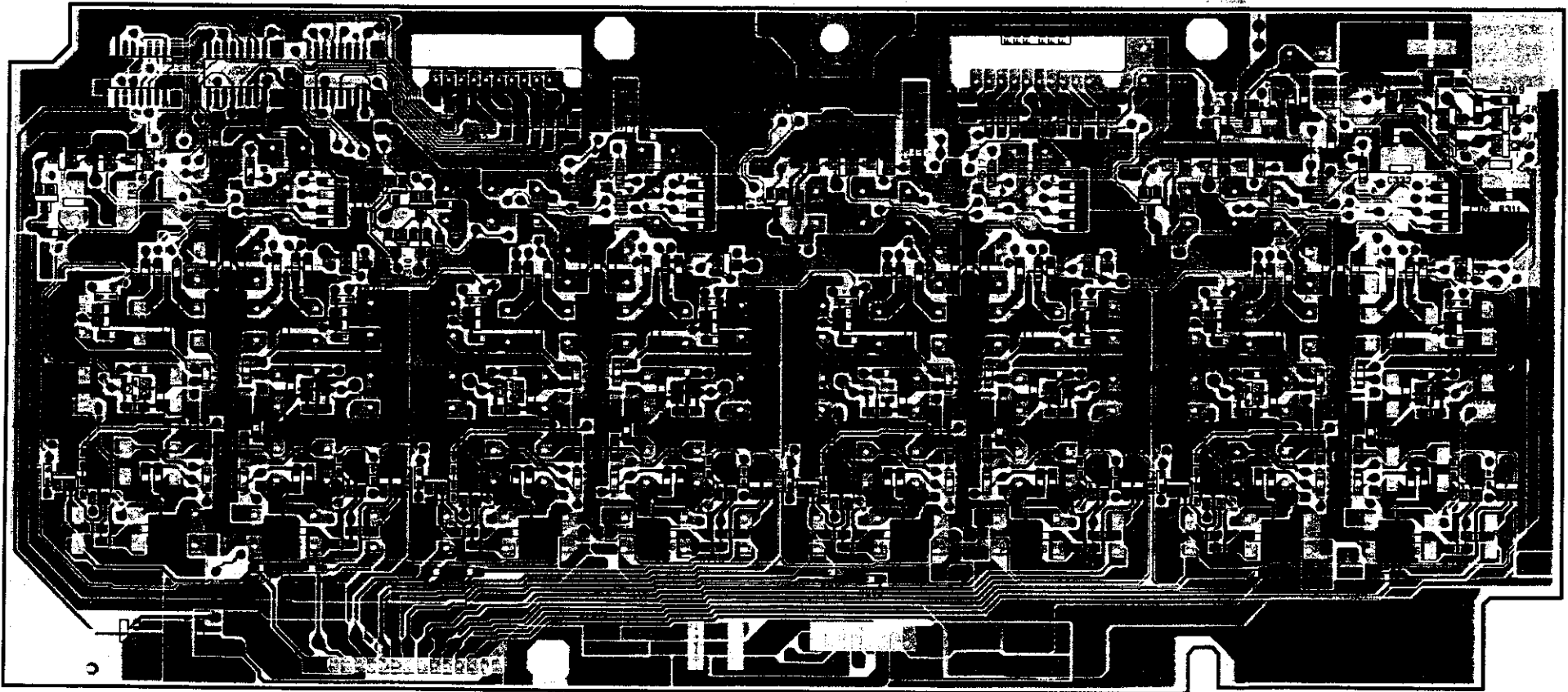
E



COMPONENT SIDE

1 2 3 4 5 6 7 8

A
B
C
D
E

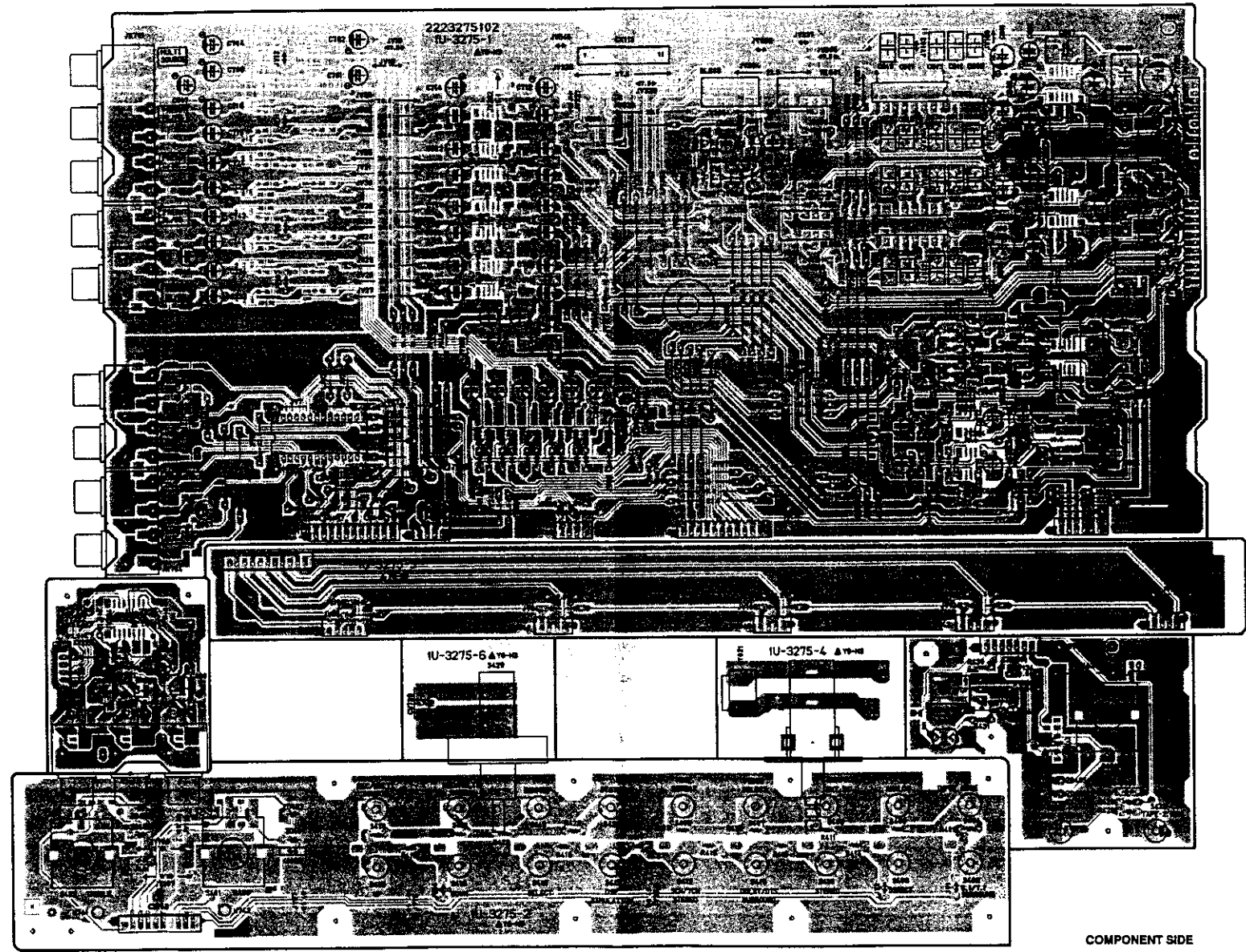


FOIL SIDE

1 2 3 4 5 6 7 8

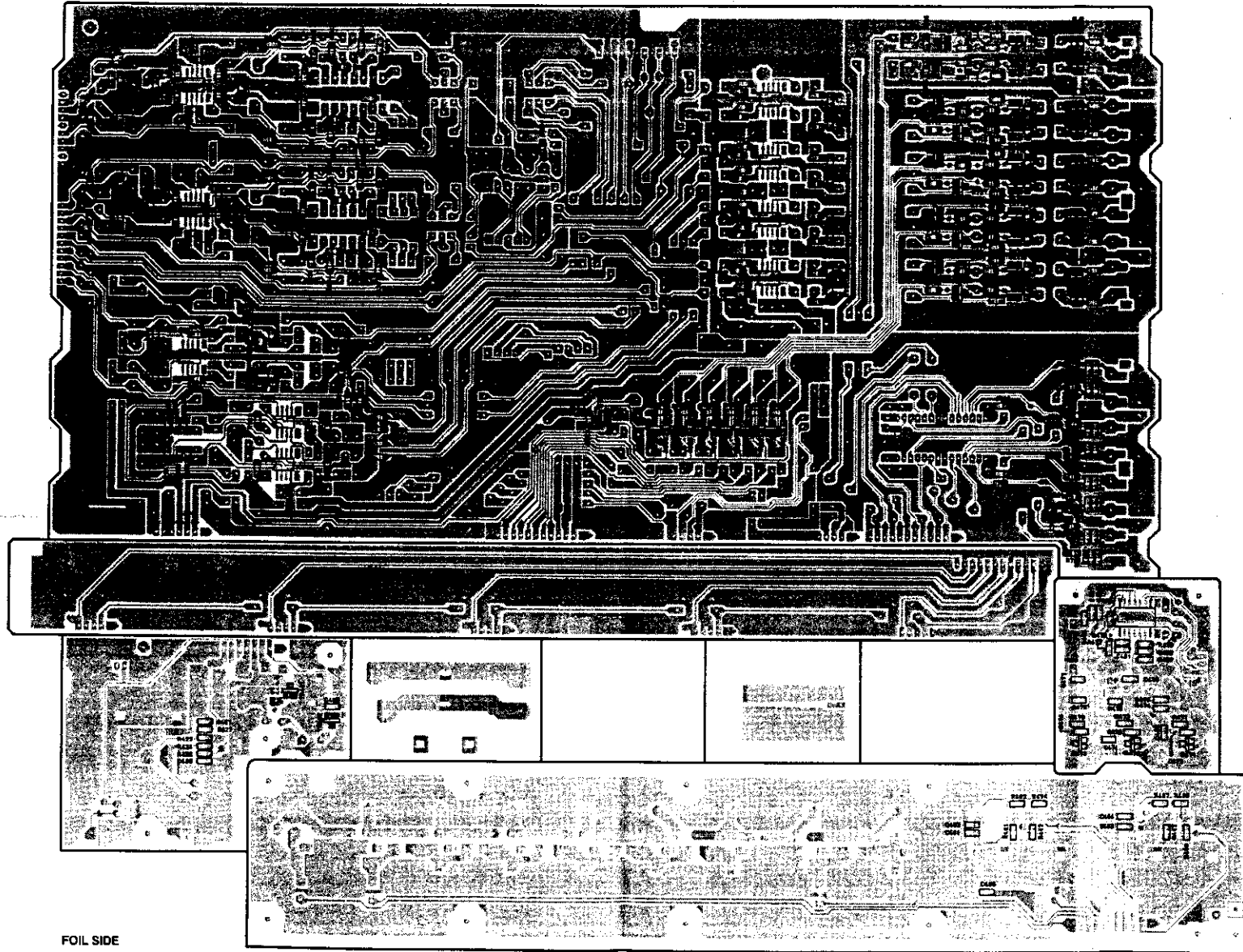
1U-3275 TONE PREOUT UNIT

A
B
C
D
E



COMPONENT SIDE

1 2 3 4 5 6 7 8



A
B
C
D
E

FOIL SIDE

1 2 3 4 5 6 7 8

1U-3288 DSP UNIT

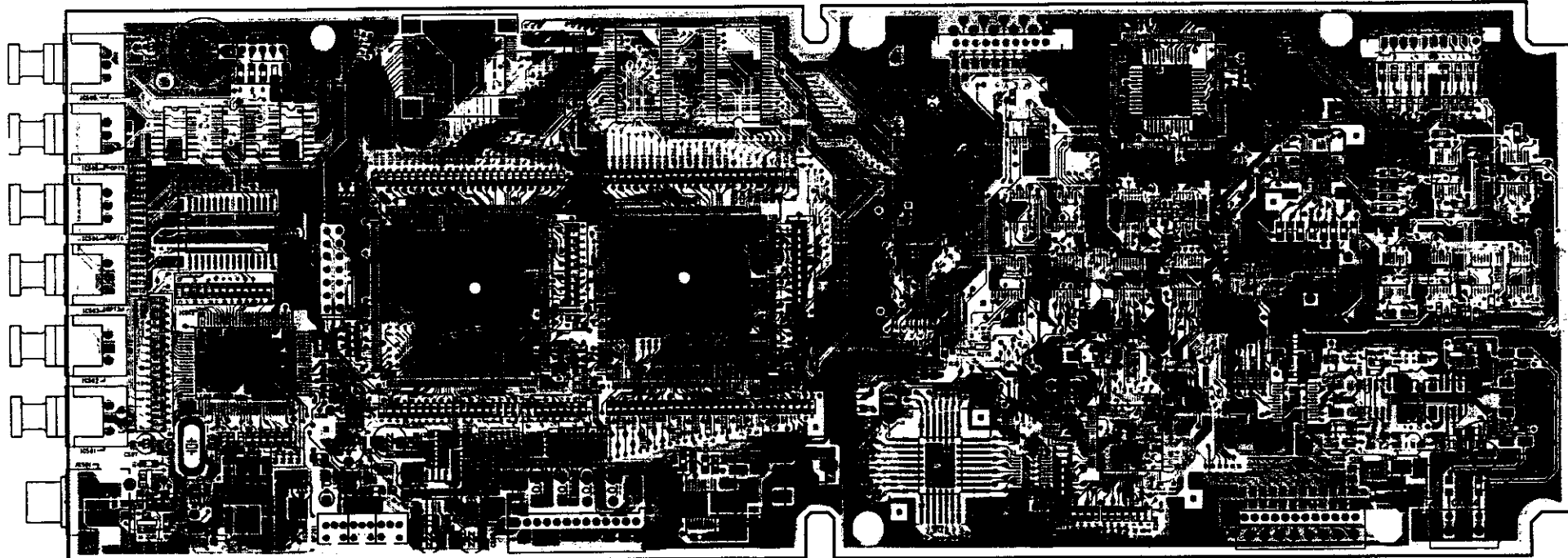
A

B

C

D

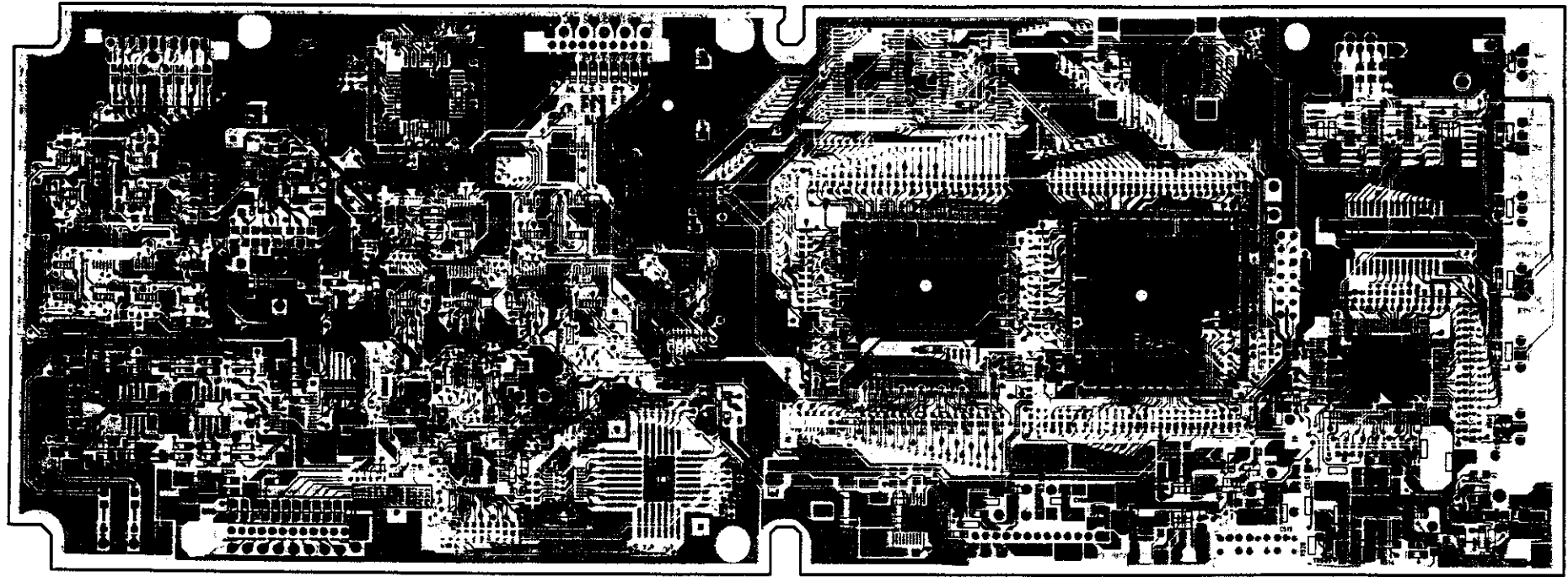
E



COMPONENT SIDE

1 2 3 4 5 6 7 8

A
B
C
D
E



FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
 - When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
 - Ordering part without stating its part number can not be supplied.
 - Part indicated with the mark "※" is not illustrated in the exploded view.
 - Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- WARNING:**
Parts marked with this symbol Δ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Resistors

Ex: RN	14K	2E	182	G	ER
Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RM : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±3% K : ±5% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor P : Lead wire forming		

● Resistance
 $\frac{1}{\text{---}} \frac{2}{\text{---}} \frac{3}{\text{---}}$ ⇒ 1800 ohm = 1.8 kohm
 Indicates number of zeros after effective number.
 2-digit effective number.
 • Units: ohm

● Resistance
 $\frac{1}{\text{---}} \frac{2}{\text{---}} \frac{3}{\text{---}}$ ⇒ 1.2 ohm
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.
 • Units: ohm

Capacitors

Ex: CE	04W	1H	2B2	M	BP
Type	Shape and performance	Dielectric	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CO : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CQ : Metallized CH : Metallized	0J : 5.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 5A : 100V 2D : 125V 2D : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	J : ±5% K : ±10% M : ±20%	F : ±1% G : ±2% J : ±3% K : ±5% M : ±20%	Z : ±80% K : ±10% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type SP : Non-polar type NR : Ripple-resistant type DL : For charge and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

● Capacity (electrolytic only)
 $\frac{2}{\text{---}} \frac{2}{\text{---}} \frac{2}{\text{---}}$ ⇒ 2200µF
 Indicates number of zeros after effective number.
 2-digit effective number.
 • Units: µF

● Capacity (except electrolytic)
 $\frac{2}{\text{---}} \frac{2}{\text{---}} \frac{2}{\text{---}}$ ⇒ 2.2µF
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.
 • Units: µF

● Capacity (except electrolytic)
 $\frac{2}{\text{---}} \frac{2}{\text{---}} \frac{2}{\text{---}}$ ⇒ 2200pF=0.0022µF
 (More than 2) indicates number of zeros after effective number.
 2-digit effective number.
 • Units: µF

● Capacity (except electrolytic)
 $\frac{2}{\text{---}} \frac{2}{\text{---}} \frac{1}{\text{---}}$ ⇒ 220pF
 (0 or 1) indicates number of zeros after effective number.
 2-digit effective number.
 • Units: pF

● When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P.W.B. UNIT 1U-3124F/G AUDIO IN & SP UNIT

Note: The symbols in the column "Remarks" indicate the following destinations.
 EU: U.S.A. model E1: Asia model
 EC: Canada model (AVR-4800) EIC: China model
 E2: Europe model EUT: Taiwan R.O.C. model

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP							
IC101-109	263 0896 909	IC NJM2068MD-T1		R171,172	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT
IC110	262 2545 006	IC TC9274N-011		R173,174	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT
IC111	262 2033 000	IC TC9273N-004		R175,176	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT
IC112	263 0896 909	IC NJM2068MD-T1		R177,178	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT
IC251	263 0896 909	IC NJM2068MD-T1		R179,180	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT
IC253	263 0896 909	IC NJM2068MD-T1		R181,182	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT
TR201	269 0018 905	Transistor DTC143ES(4.7K-4.7K)T		R183,184	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT
TR901-904	273 0388 906	Transistor 2SC1740S(E)-T		R185,186	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT
TR905	269 0018 905	Transistor DTC143ES(4.7K-4.7K)T		R187,188	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT
D201	276 0432 903	Diode 1SS270A TE (TAPE)		R189,190	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT
RESISTORS GROUP							
R101,102	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B-391JT	R205,206	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT
R103,104	247 0011 988	Carbon chip 68 kohm 1/10W	RM73B-683JT	R227,228	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R105,106	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B-154JT	R227,228	247 0007 974	Carbon chip 1.3 kohm 1/10W	RM73B-132JT
R107,108	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT				
R109,110	247 0005 992	Carbon chip 240 ohm 1/10W	RM73B-241JT	R251,252	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R111,112	247 0012 956	Carbon chip 130 kohm 1/10W	RM73B-134JT	R253,254	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT
R113,114	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B-113JT	R255,256	247 0010 990	Carbon chip 30 kohm 1/10W	RM73B-303JT
R115,116	247 0003 949	Carbon chip 22 ohm 1/10W	RM73B-220JT	R257,258	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B-153JT
R117,118	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT	R263,264	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R118,120	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT	R265,266	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R121,122	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT	R269,270	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R123,124	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT	R273,274	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT
R125,126	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT	R275-280	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R127,128	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT	R286	241 2380 905	Carbon film 1.2 kohm 1/4W(NB)	RD1482E122JNBST
R129,130	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT	R287,288	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R131,132	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT	R289-292	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R133,134	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT	R293,294	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R135,136	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT	R301,302	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R137,138	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT	R309,310	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R139,140	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT	R317,318	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R141,142	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT	R321,322	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R143,144	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT	R329,330	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R145,146	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT	R337,338	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R147,148	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT	R341,342	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R149,150	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT	R349,350	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R151,152	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT	R357,358	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R153,154	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT	R361,362	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R155,156	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT	R369,370	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R157,158	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT	R377,378	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R159,160	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT	R381-388	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT
R161,162	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT				
R163,164	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT	R901-903	244 2043 908	Metal oxide 680 ohm 1W(NB)	RS1483A681JNBST(S)
R165,166	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT	R906	244 2043 908	Metal oxide 680 ohm 1W(NB)	RS1483A681JNBST(S)
R167,168	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT	R908	244 2043 908	Metal oxide 680 ohm 1W(NB)	RS1483A681JNBST(S)
R169,170	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT				

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R910,911	244 2043 908	Metal oxide 680 ohm 1W(NB)	RS14B3A681JNBST(S)	C240-242	254 4524 943	Electrolytic 1µF/50V	CE04WH100MT SMGRE3
R914	244 2043 908	Metal oxide 680 ohm 1W(NB)	RS14B3A681JNBST(S)	C247	254 4524 943	Electrolytic 1µF/50V	CE04WH100MT SMGRE3
R917	241 2380 905	Carbon film 1.2 kohm 1/4W(NB)	RD14B2E122JNBST	C253,254	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3
R918-921	244 2052 960	Metal oxide 220 ohm 1W(NB)	RS14B3A221JNBST(S)	C255-258	256 1058 971	Metalized 0.1µF/50V	CF93A1H104JT (JL)
R951	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT	C263-266	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3
CAPACITORS GROUP				C269,270	254 4524 998	Electrolytic 22µF/50V	CE04WH220MT SMGRE3
C101,102	257 0005 944	Ceramic chip 220pF/50V	CC73SL1H221JT	C271,272	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3
C105,106	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	C273,274	254 4524 998	Electrolytic 22µF/50V	CE04WH220MT SMGRE3
C107,108	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT	C275	254 4524 969	Electrolytic 3.3µF/50V	CE04WH330MT SMGRE3
C105,110	254 4536 931	Electrolytic 220µF/10V	CE04WH220MT SMGRE3	C901-907	255 4235 934	Mylar film 0.01µF/100V	CO93P2A103JT(NH) for E2,E1,E1C
C111,112	255 4199 999	Mylar film 0.024µF/50V	CO92M1H243JT(MRZ)	C908-912	255 1265 936	Mylar film 0.01µF/50V	CO93M1H103JT(B)
C113,114	255 1265 907	Mylar film 6800pF/50V	CO93M1H680JT(B)	C953	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103ZT
C115,118	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	C957	256 1058 971	Metalized 0.1µF/50V	CF93A1H104JT (JL)
C119,120	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	OTHER PARTS GROUP			
C121,122	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	CN105	002 9022 069	10C R.wire Assy	1
C127,128	254 4525 913	Electrolytic 47µF/50V	CE04WH470MT SMGRE3	CW082	205 0885 095	8P connector socket (TUC-P)	1
C129,130	254 4524 943	Electrolytic 1µF/50V	CE04WH100MT SMGRE3	CW088	205 0885 095	8P connector socket (TUC-P)	1
C131,132	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	CW105	205 0409 002	10P dip socket	1
C133,134	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	CW118	205 0885 066	11P connector socket (TUC-P)	1
C139,140	254 4525 913	Electrolytic 47µF/50V	CE04WH470MT SMGRE3	CW142	205 0885 011	14P connector socket (TUC-P)	1
C143,144	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	CW155	205 0885 040	15P connector socket (TUC-P)	1
C145,146	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	CX041	205 0343 045	4P connector base (KR-PH)	1
C151,152	254 4538 926	Electrolytic 33µF/16V	CE04WH330MT SMGRE3	CX065	205 0343 061	6P connector base (KR-PH)	1
C155,156	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	CX920	205 0075 025	2P terminal	1
C157,158	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	CX931	205 0075 038	3P terminal	1
C163,164	254 4538 926	Electrolytic 33µF/16V	CE04WH330MT SMGRE3	CY041	205 0343 045	4P connector base (KR-PH)	1
C167,168	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	CY065	205 0343 061	6P connector base (KR-PH)	1
C169,170	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	CY084	205 0343 087	8P connector base (KR-PH)	1
C175,176	254 4538 926	Electrolytic 33µF/16V	CE04WH330MT SMGRE3	CY143	205 0375 042	14P connector base (KR-PH)	1
C177,178	254 4524 943	Electrolytic 1µF/50V	CE04WH100MT SMGRE3	CZ105	205 0409 002	10P dip socket	1
C179,180	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	JK101,102	204 8543 006	6P pin jack	2
C181,182	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	JK103,104	204 8540 009	4P pin jack	2
C187,188	254 4538 926	Electrolytic 33µF/16V	CE04WH330MT SMGRE3	JK901	205 1097 002	6P SP terminal	1
C191,192	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	JK902	205 1098 001	8P SP terminal	1
C193,194	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	JK951	204 8217 031	Headphone jack (BK(AU))	1
C199,200	254 4538 926	Electrolytic 33µF/16V	CE04WH330MT SMGRE3	LF101,102	235 9003 002	FTZ choke coil	for E2,E1,E1C 2
C203,204	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C	RL501	214 0205 006	Relay (EA2-12N57)	1
C205,206	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3	RL901,902	214 0195 006	Relay FTR-F1	2
C211,212	254 4538 926	Electrolytic 33µF/16V	CE04WH330MT SMGRE3	RL903	214 0205 006	Relay (EA2-12N57)	1
C215,216	254 4524 985	Electrolytic 10µF/50V	CE04WH100MT SMGRE3				
C221,222	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2,E1,E1C				

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP				
CW732	203 5226 006	3P PH-SAN connector cord		1
CW733	203 5226 019	3P PH-SAN connector cord		1
CX032	205 0653 036	3P VH connector base		1
CX033	205 0233 032	3 P EH connector base		1
CX036	205 0233 032	3 P EH connector base		1
CX045	205 0884 083	4P connector base (TUC-P)		1
CX049	205 0884 083	4P connector base (TUC-P)		1
CX055	205 0343 058	5P connector base (KR-PH)		1
CX061,062	205 0943 018	6P connector base (TUC-P)		2
CX063	205 0343 061	6P connector base (KR-PH)		1
CX069	205 0343 061	6P connector base (KR-PH)		1
CX072,073	205 0943 021	7P connector base (TUC-P)		2
CX082,083	205 0884 096	8P connector base (TUC-P)		2
CX084	205 0343 087	8P connector base (KR-PH)		1
CX088	205 0884 096	8P connector base (TUC-P)		1
CX102	205 0884 054	10P connector base (TUC-P)		1
CX112	205 0884 067	11P connector base (TUC-P)		1
CX114-119	205 0884 067	11P connector base (TUC-P)		6
CX121	205 0375 026	12P connector base (KR-PH)	for EU,EC	1
CX122	205 0884 070	12P connector base (TUC-P)		1
CX142	205 0884 012	14P connector base (TUC-P)		1
CX153-155	205 0884 041	15P connector base (TUC-P)		3
CX291	205 0736 034	28P FFC connector base (9603)		1
CX941	205 0343 045	4P connector base (KR-PH)		1
CY052	205 0343 058	5P connector base (KR-PH)		1
CY055	205 0343 058	5P connector base (KR-PH)		1
CY064	205 0343 061	6P connector base (KR-PH)		1
CY068	205 0343 061	6P connector base (KR-PH)		1
CY081	205 0343 087	8P connector base (KR-PH)		1
CY085	205 0343 087	8P connector base (KR-PH)		1
CY111	205 0375 013	11P connector base (KR-PH)		1
CY124	205 0375 026	12P connector base (KR-PH)		1
CY137	205 0375 039	13P connector base (KR-PH)		1
Δ F11,12	205 1039 069	Fuse 3.15A	for EU,EC,EUT	2
Δ F11,12	205 1015 074	Fuse 3.15A	for E2,E1,E1C	2
Δ F13,14	205 1039 069	Fuse 2.0A	for EU,EC,EUT	2
Δ F13,14	205 1015 081	Fuse 2A	for E2,E1,E1C	2
FB201-205	235 0049 900	Beads inductor		5
FB206-208	235 0130 903	Chip emiff (11A121)		3
FB209	235 0049 900	Beads inductor		1
FB214	235 0049 900	Beads inductor	for EU,EC	1
FF911-914	202 0040 909	Fuse clip		4
FH911-914	202 0040 909	Fuse clip		4
L201,202	235 0070 908	Inductor 12μH		2

1U-3128F/G/H/I RECTIFIER & PRI. UNIT

Ref. No.	Part No.	Part Name	Remarks	Q'ty
TP901	205 0190 036	3P NH connector base		1
W721	203 0475 072	1P contact ass'y		1
W722	203 0463 000	1P SIN con. Ass'y	for EU,EC	1
W724	203 0639 002	1P SIN cord ass'y		1
X201	399 0532 902	Ceramic 12.5 MHz		1
	513 2585 032	Fuse label	for E2,E1,E1C	2
	513 2585 045	Fuse label	for E2,E1,E1C	2
SEMICONDUCTORS GROUP				
IC371	262 2643 906	IC TC4052BF(TAPE)		
IC372,373	263 1075 004	IC TK15420D		
IC374	262 2643 906	IC TC4052BF(TAPE)		
IC701	263 0793 002	IC NJM7806FA(S)		
IC908	262 2580 906	IC CXA1511M		
TR371,372	269 0054 901	Transistor DTC144EKT96		
TR373,374	269 0055 900	Transistor DTA144EKT96		
TR375	269 0054 901	Transistor DTC144EKT96		
TR701	273 0388 906	Transistor 2SC1740S(E)-T		
TR704-706	273 0388 906	Transistor 2SC1740S(E)-T		
TR707	269 0054 901	Transistor DTC144EKT96		
TR708	269 0082 902	Transistor DTC114EKT96		
TR906	269 0055 900	Transistor DTA144EKT96		
TR951	269 0082 902	Transistor DTC114EKT96		
TR952	269 0083 901	Transistor DTA114EKT96		
D371	276 0559 909	Diode DAP202KT146		
D374	276 0559 909	Diode DAP202KT146		
D375	276 0560 901	Diode DAN202KT146		
D376-378	276 0432 903	Diode 1SS270A TE (TAPE)		
D701	276 0432 903	Diode 1SS270A TE (TAPE)		
D702-707	276 0704 903	Diode 1SR35-400A(T93X)		
D708,709	276 0432 903	Diode 1SS270A TE (TAPE)		
D752	276 0704 903	Diode 1SR35-400A(T93X)		
ZD701	276 0644 908	Zener diode MTZJ6.8A T77		
ZD702	276 0645 907	Zener diode MTZJ18A T77		
ZD751	276 0643 995	Zener diode MTZJ5.6A T77		
ZD901	276 0637 902	Zener diode MTZJ6.2AT77		
ZD951	276 0637 902	Zener diode MTZJ6.2AT77		
RESISTORS GROUP				
R371-376	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B-750JT	
R377-379	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B-223JT	
R380-382	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B-750JT	
R384	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT	
R385	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B-103JT	
R386	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT	
R387-389	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT	
R390-392	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B-103JT	
R393-395	247 0006 975	Carbon chip 510 ohm 1/10W	RM73B-511JT	
R396-398	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B-561JT	
R701	242 2009 001	Composition 2.2Mohm 1/2W	RC05GF2H225K(UL) for EU,EC	
R720,721	243 2091 009	Winding 33 ohm 10W	RW78A4A330J=(UL)	
R751-754	244 2051 974	Metal oxide 1 kohm 1W(NB)	RS14B3A102JNBST(S)	
R755	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT	
R889	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT	
R890	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B-221JT	
R891	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KJT	
R892	247 0012 998	Carbon chip 200 kohm 1/10W	RM73B-204JT	
R893	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B-102JT	
R894	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B-393JT	
R895	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B-102JT	
R992	244 2052 928	Metal oxide 47 ohm 1W(NB)	RS14B3A470JNBST(S)	
R993	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KJT	
R995	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT	
CAPACITORS GROUP				
C371	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT	
C372	254 4305 968	Electrolytic 1μF/50V	CE04W1H1010MT(SRE)	
C373	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT	
C374	254 4305 968	Electrolytic 1μF/50V	CE04W1H1010MT(SRE)	
C375	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT	
C376	254 4305 968	Electrolytic 1μF/50V	CE04W1H1010MT(SRE)	
C378,379	254 4299 964	Electrolytic 47μF/16V	CE04W1C470MT(SRE)	
C380,381	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	
C382,383	254 4299 964	Electrolytic 47μF/16V	CE04W1C470MT(SRE)	
C384,385	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	
C386,387	254 4299 964	Electrolytic 47μF/16V	CE04W1C470MT(SRE)	
C388,389	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	
C390-392	254 4302 974	Electrolytic 100μF/10V	CE04W1A101MT(SRE)	
C393,394	254 4299 964	Electrolytic 47μF/16V	CE04W1C470MT(SRE)	
C395,396	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	
C701	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT (JL)	
C702	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT (JL)	
C705	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3	
C706	254 4524 943	Electrolytic 1μF/50V	CE04W1H1010MT SMG/RE3	
C709	254 4403 721	Electrolytic 2200μF/25V	CE04W1E222MC (SMG)	
C713	255 1265 936	Mylar film 0.01μF/50V	CO93M1H103JT(B)	
C715	254 4524 989	Electrolytic 3.3μF/50V	CE04W1HR3MT SMG/RE3	
C751-753	256 1042 903	Metalized 0.1μF/250V	CF93A2E104KT	
C755	255 1265 936	Mylar film 0.01μF/50V	CO93M1H103JT(B)	
C760	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3	
C762,763	254 4524 972	Electrolytic 4.7μF/50V	CE04W1HR7MT SMG/RE3	
C766,767	254 4562 714	Electrolytic 100μF/100V	CE04W2A101MC(ARS/2)	
C962	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3	
C963	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	
C964	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT	
C965	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	

Ref. No.	Part No.	Part Name	Remarks	Q'ty
C966	254 4524 943	Electrolytic 1µF/50V	CE04M1H01MT SMC/R3E3	
C967	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103ZT	
C968	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104ZT	
OTHER PARTS GROUP				Q'ty
CW730	203 5226 006	3P PH-SAN connector cord		1
CW731	203 5226 019	3P PH-SAN connector cord		1
CX021	205 0581 001	2P VH connector base	for E2,E1,E1C,EUT	1
CX022	205 0606 025	2P wrapping terminal		1
CX024	205 0581 001	2P VH connector base	for E2,E1	1
CX025	205 0606 025	2P wrapping terminal		1
CX031	205 0087 039	3P wrapping terminal		1
CX039	205 0087 039	3P wrapping terminal		1
CX042	205 0343 045	4P connector base (KR-PH)		1
CX052	205 0343 058	5P connector base (KR-PH)		1
CX086	205 1099 000	8P pin header (6035B)		1
CY069	205 0355 062	6P KR connector base (L)		1
CY941	205 0343 045	4P connector base (KR-PH)		1
Δ F2	205 1051 009	Fuse 12A	for E1,E1C,EUT	1
Δ F3	205 1051 011	Fuse 6A	for E2,E1,E1C	1
Δ F4	205 1046 014	Fuse 3A	for E1,E1C,EUT	1
Δ F6	205 1015 082	Fuse 2.5A	for E2,E1	1
FF702	EP-5870	Fuse holder	for EU,EC,EUT	1
FF703	202 0040 909	Fuse clip	for E2,E1,E1C	1
FF708	202 0040 909	Fuse clip	for EU,EC,E2,E1,EUT	1
FH702	EP-5870	Fuse holder	for EU,EC,EUT	1
FH703	202 0040 909	Fuse clip	for E2,E1,E1C	1
FH708	202 0040 909	Fuse clip	for EU,EC,E2,E1,EUT	1
JK371-373	204 8581 000	3P pin jack (NI-COM.V)		3
JK904,905	204 8260 004	Mini jack		2
JK951	204 8289 001	DC Power jack		1
RL701,702	214 0202 009	Relay DG1U TV-8		2
Δ T701	223 6073 107	Power trans. (M3-E1)	for E1,E1C,EUT	1
Δ T701	223 6068 025	Power trans. (M3-E2)	for E2,E1	1
Δ T701	223 6317 009	Power trans.	for E1C	1
W702,703	205 1034 007	M3 Screw terminal		2
W711-715	203 0678 002	1P SIN cord assy		5

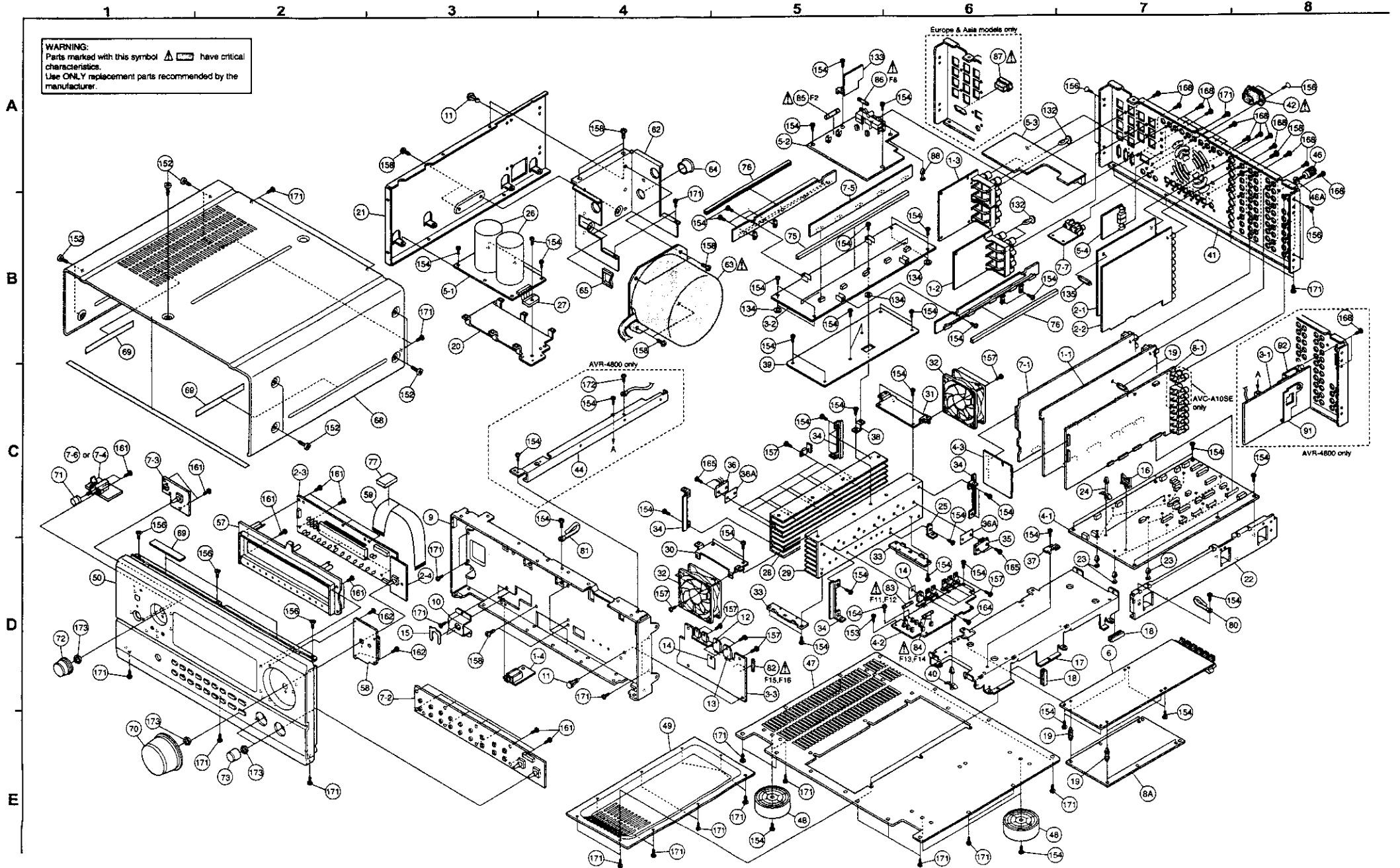
1U-3254F/G/H EXT IN UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC505-508	262 2662 002	IC TC9459N	
IC601	263 0898 907	IC NJM5532MD(T1)	
IC603	263 0898 907	IC NJM5532MD(T1)	
IC605	263 0898 907	IC NJM5532MD(T1)	
IC607	263 0898 907	IC NJM5532MD(T1)	
IC801-803	263 0896 909	IC NJM2068MD-T1	for E2,E1,E1C,EUT
IC807	263 0896 909	IC NJM2068MD-T1	for E2,E1,E1C,EUT
IC901-904	263 0896 909	IC NJM2068MD-T1	
IC906	262 2667 007	IC TC9274N-012	
IC907	262 2725 004	IC TC9273N-015	for E2,E1,E1C,EUT
RESISTORS GROUP			
R509,510	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R519,520	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R529,530	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R539,540	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R601,602	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R605,606	247 0007 932	Carbon chip 910 ohm 1/10W	RM73B-911JT
R607,608	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B-512JT
R613,614	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
R619,620	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R623	247 0007 932	Carbon chip 910 ohm 1/10W	RM73B-911JT
R624	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B-162JT
R625	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B-512JT
R626	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B-153JT
R631,632	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
R635,636	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R639,640	247 0007 987	Carbon chip 1.5 kohm 1/10W	RM73B-152JT
R641,642	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B-822JT
R647-650	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R653,654	247 0007 932	Carbon chip 910 ohm 1/10W	RM73B-911JT
R655,656	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
R661,662	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R801,802	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT for E2,E1,E1C
R801,802	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for EUT
R803-806	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT for E2,E1,E1C,EUT
R807,808	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT for E2,E1,E1C,EUT
R811,812	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for E2,E1,E1C,EUT
R815,816	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT for E2,E1,E1C,EUT
R817	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT for E2,E1,E1C
R817	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for EUT
R818	247 0010 945	Carbon chip 18 kohm 1/10W	RM73B-183JT for E2,E1,E1C,EUT
R819	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT for E2,E1,E1C,EUT
R820	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B-333JT for E2,E1,E1C,EUT
R821	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT for E2,E1,E1C,EUT
R822	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT for E2,E1,E1C,EUT
R823,824	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT for E2,E1,E1C,EUT
R827,828	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for E2,E1,E1C,EUT
R831,832	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT for E2,E1,E1C,EUT
R833,834	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT for E2,E1,E1C
R833,834	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for EUT
R835-838	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT for E2,E1,E1C,EUT
R839,840	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT for E2,E1,E1C,EUT
R843,844	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for E2,E1,E1C,EUT
R847,848	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT for E2,E1,E1C,EUT
R849,850	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B-623JT for E2,E1,E1C,EUT
R851,852	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT for E2,E1,E1C,EUT
R853,854	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT for E2,E1,E1C,EUT
R855,856	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT for E2,E1,E1C,EUT
R857,858	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT for E2,E1,E1C,EUT
R859	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for E2,E1,E1C,EUT
R901,902	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT for EU,EC,EUT
R901,902	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT for E2,E1,E1C
R903-906	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
R907,908	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT
R911,912	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B-0R0KT

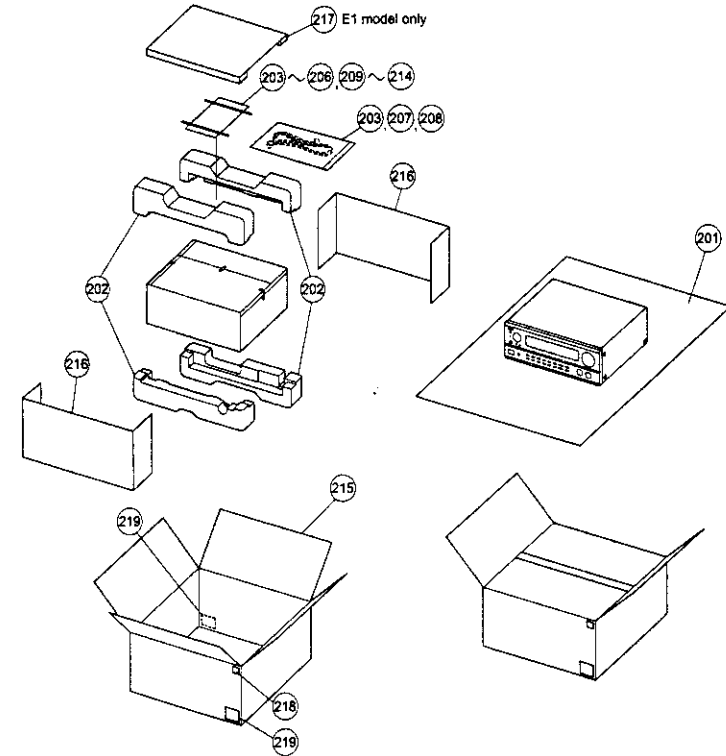
1U-3275F/G TONE PREOUT UNIT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				RESISTORS GROUP			
IC401	499 0290 007	Fluocom sensor GP1U271X		R401,402	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
IC471	262 2384 908	IC SN74HCUD4NS(TAPE)		R403,404	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT
IC601	263 0698 907	IC NJM5532MD(T1)		R405,406	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
IC602	262 2616 003	IC TC9184AP		R407,408	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT
IC603	263 0698 907	IC NJM5532MD(T1)		R424,425	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT
IC604	262 2616 003	IC TC9184AP		R426,427	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT
IC609	263 0615 902	IC BA15218F-DXE2		R471-473	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B-750JT
IC701-704	263 0696 909	IC NJM2068MD-T1		R474-476	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B-101JT
IC705	262 2034 009	IC TC8273N-007		R477	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B-222JT
IC801	263 0696 909	IC NJM2068MD-T1		R478,479	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT
IC901	263 0615 902	IC BA15218F-DXE2		R480	247 0006 928	Carbon chip 2.2 kohm 1/10W	RM73B-222JT
TR401	269 0055 900	Transistor DTA114EKT96		R481	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT
TR402	269 0082 902	Transistor DTC114EKT96		R482	247 0006 928	Carbon chip 2.2 kohm 1/10W	RM73B-222JT
TR601	269 0018 905	Transistor DTC143ES(4.7K-4.7K)T		R601-604	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT
TR691-696	269 0083 901	Transistor DTA114EKT96		R605,606	247 0012 901	Carbon chip 82 kohm 1/10W	RM73B-823JT
TR697	269 0018 905	Transistor DTC143ES(4.7K-4.7K)T		R607,608	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
TR698	269 0083 901	Transistor DTA114EKT96		R609,610	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B-393JT
TR701-718	273 0414 906	Transistor 2SC3326(A/B)		R611,612	247 0014 908	Carbon chip 560 kohm 1/10W	RM73B-564JT
TR801,802	273 0414 906	Transistor 2SC3326(A/B)		R613,614	247 0010 987	Carbon chip 27 kohm 1/10W	RM73B-273JT
TR805	269 0083 901	Transistor DTA114EKT96		R615,616	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B-562JT
TR806	269 0082 902	Transistor DTC114EKT96		R617,618	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B-102JT
TR901,902	273 0414 906	Transistor 2SC3326(A/B)		R619,620	247 0008 985	Carbon chip 10 kohm 1/10W	RM73B-103JT
D471-473	276 0559 909	Diode DAP202KT146		R621-624	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT
D601-616	276 0432 903	Diode 1SS270A TE (TAPE)		R625,626	247 0012 901	Carbon chip 82 kohm 1/10W	RM73B-823JT
D619	276 0432 903	Diode 1SS270A TE (TAPE)		R627,628	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
D801-808	276 0432 903	Diode 1SS270A TE (TAPE)		R629,630	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B-393JT
D901,902	276 0432 903	Diode 1SS270A TE (TAPE)		R631,632	247 0014 908	Carbon chip 560 kohm 1/10W	RM73B-564JT
ZD401-406	276 0637 902	Zener diode MTZJ6.2AT77		R633,634	247 0010 987	Carbon chip 27 kohm 1/10W	RM73B-273JT
ZD903	276 0458 903	Zener diode HZSSA-1TD		R635,636	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B-562JT
LD401	393 9408 903	LED SEL-4214S(TP6)	Red	R637,638	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B-102JT
				R639	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B-103JT
				R641,642	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B-332JT
				R643,644	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B-561JT
				R645,646	247 0006 960	Carbon chip 3.3 kohm 1/10W	RM73B-332JT
				R647,648	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B-561JT
				R659	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B-103JT
				R691-696	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT
				R697,698	241 2380 905	Carbon film 1.2 kohm 1/4W(NB)	RD14B2E122JNBST
				R699	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B-474JT
				R701,702	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B-471JT
				R703,704	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B-473JT
				R707,708	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
				R709,710	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B-100JT
				R711,712	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B-104JT
				R713,714	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B-470JT
				R715,716	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B-221JT
				R717,718	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B-472JT
				R719,720	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B-221JT
				R721,722	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B-223JT

EXPLODED VIEW



PACKING VIEW



Note: The symbols in the column "Remarks" indicate the following distinctions.
 EU: U.S.A. model (AVR-4800) E2: Europe model
 E1C: China model E1: Canada model (AVR-4800)
 E1: Asia model EUT: Taiwan R.O.C. model

PARTS LIST OF PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	504 0182 106	Cabinet sheet		1	211	231 0922 009	Loop antenna	for EU,EC	1
202	503 1316 205	Cushion Assy		1	212	395 0019 009	FM antenna Assy	for EU,EC	1
203	505 8006 019	Envelope		2	213	529 0079 008	FM antenna adapter	for EU,EC	1
204	511 3544 005	Instruction manual	for EU,EC	1	214	515 0817 009	DEL warranty home	for EU	1
204	511 3590 004	Instruction manual	for E2	1	215	501 2024 040	Carton case	for EU,EC	1
204	511 3591 003	Instruction manual	for E1, E1C, EUT	1	215	501 2024 066	Carton case	for E2, E1C	1
205	511 3575 002	Instruction manual	for EC	1	215	501 2024 079	Carton case	for E1, EUT	1
205	511 3592 002	Instruction manual	for E1, EUT	1	216	501 2042 006	Spacer	for EU, EC, E2, E1C, EUT	2
205	511 3589 002	Instruction manual	for E1C	1	216	501 2042 019	Spacer	for E1	2
206	515 0671 708	Service station list (EX)		1	217	503 1324 006	Cushion	for E1	1
△	207	206 2157 009	AC cord set	1	218	513 3327 008	Bar code label base	for EU, EC, E2, E1C, EUT	1
△	207	206 2154 002	AC cord with connector	1	219	513 1389 006	Control card base		1
△	207	206 2189 006	AC cord	1	★ 220	515 0627 105	DCI warranty home	for EC	1
△	208	206 2148 005	AC cord (BS3P)	1	★ 221	519 9111 001	Color label (gold)	for gold model	2
209	399 0587 009	Remote controller RC-869		1	★ 222	513 3195 049	Koin label	for EUT	1
210	—	Battery (R6P×2)		1					

BLOCK DIAGRAM

1

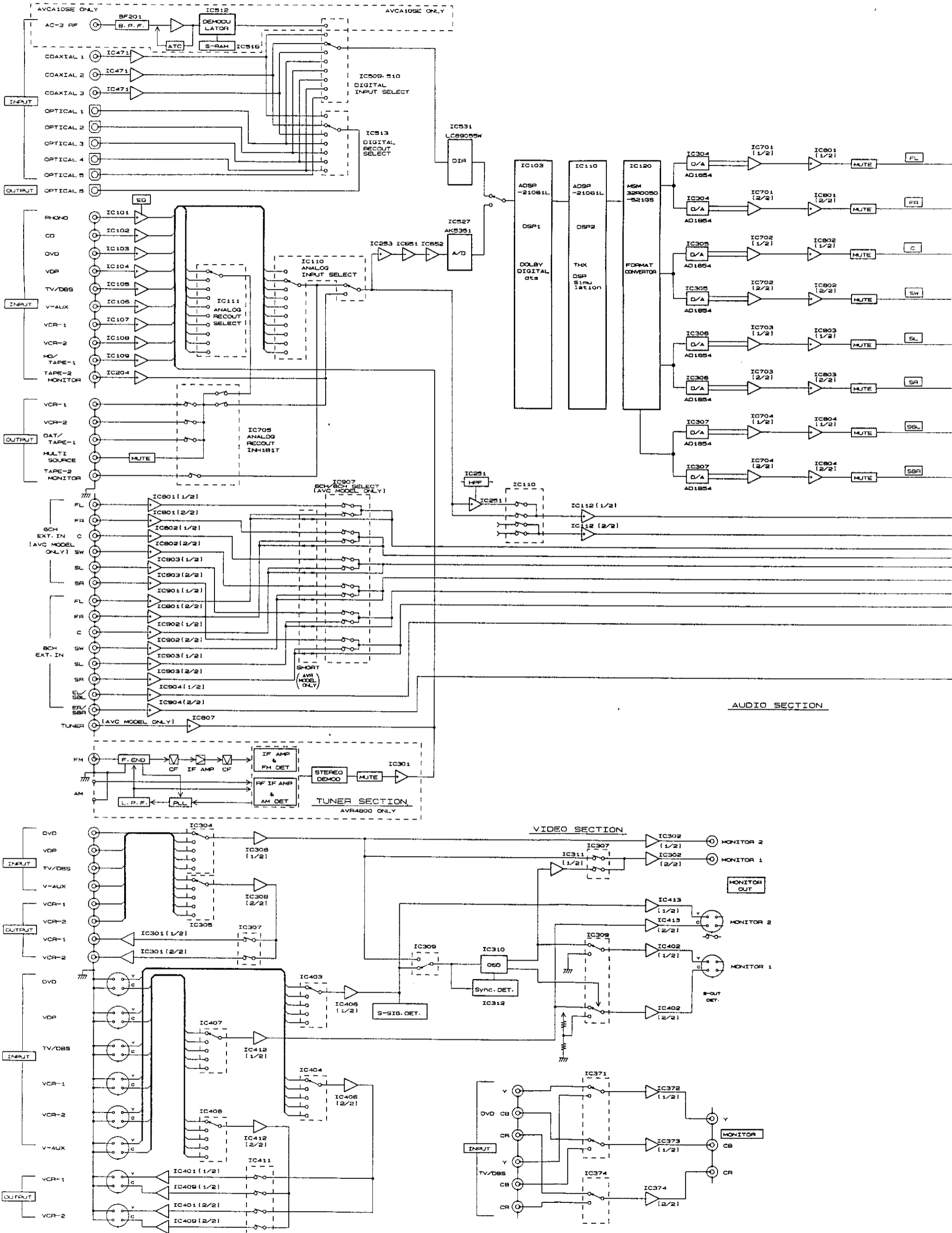
2

3

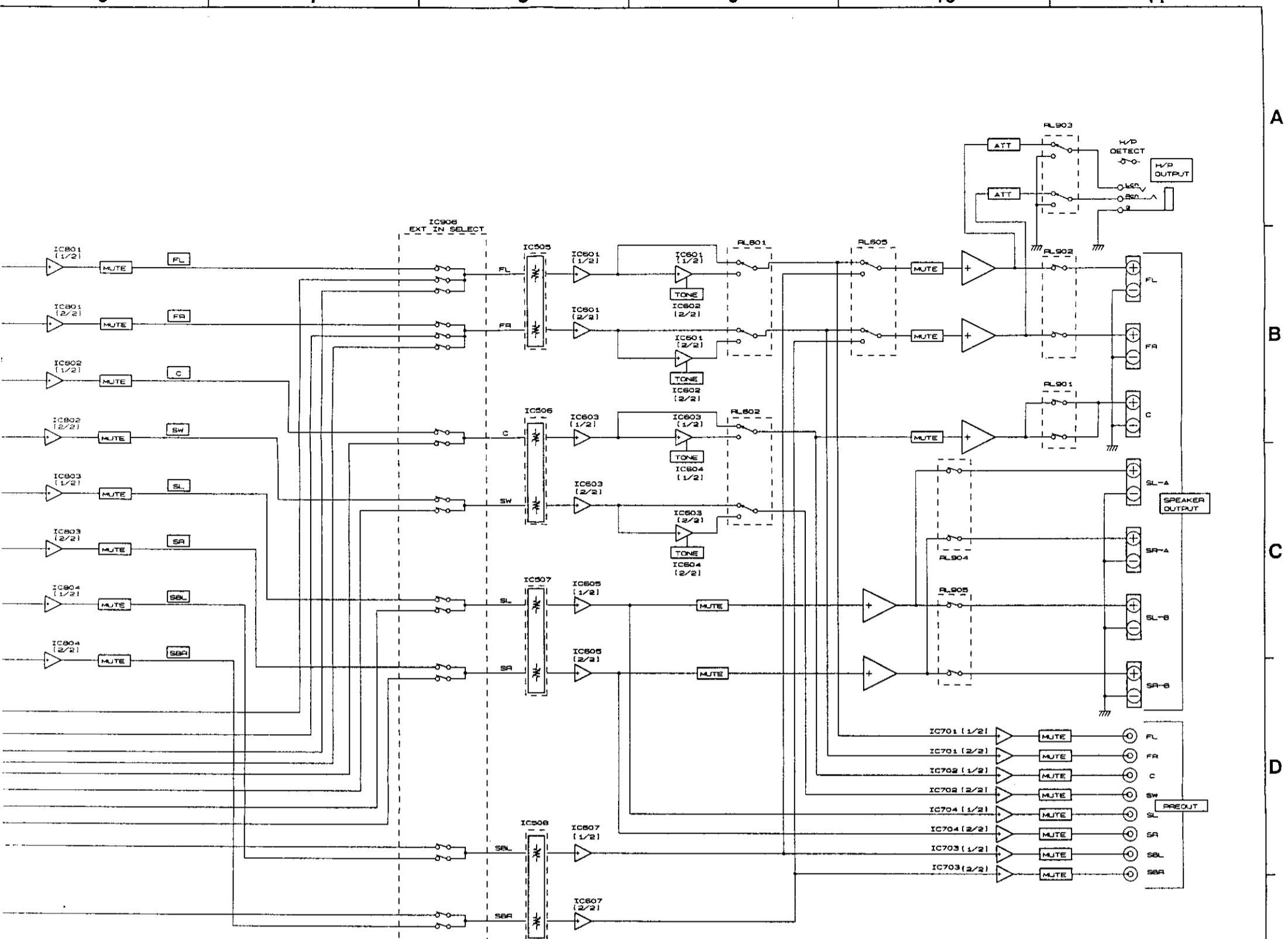
4

5

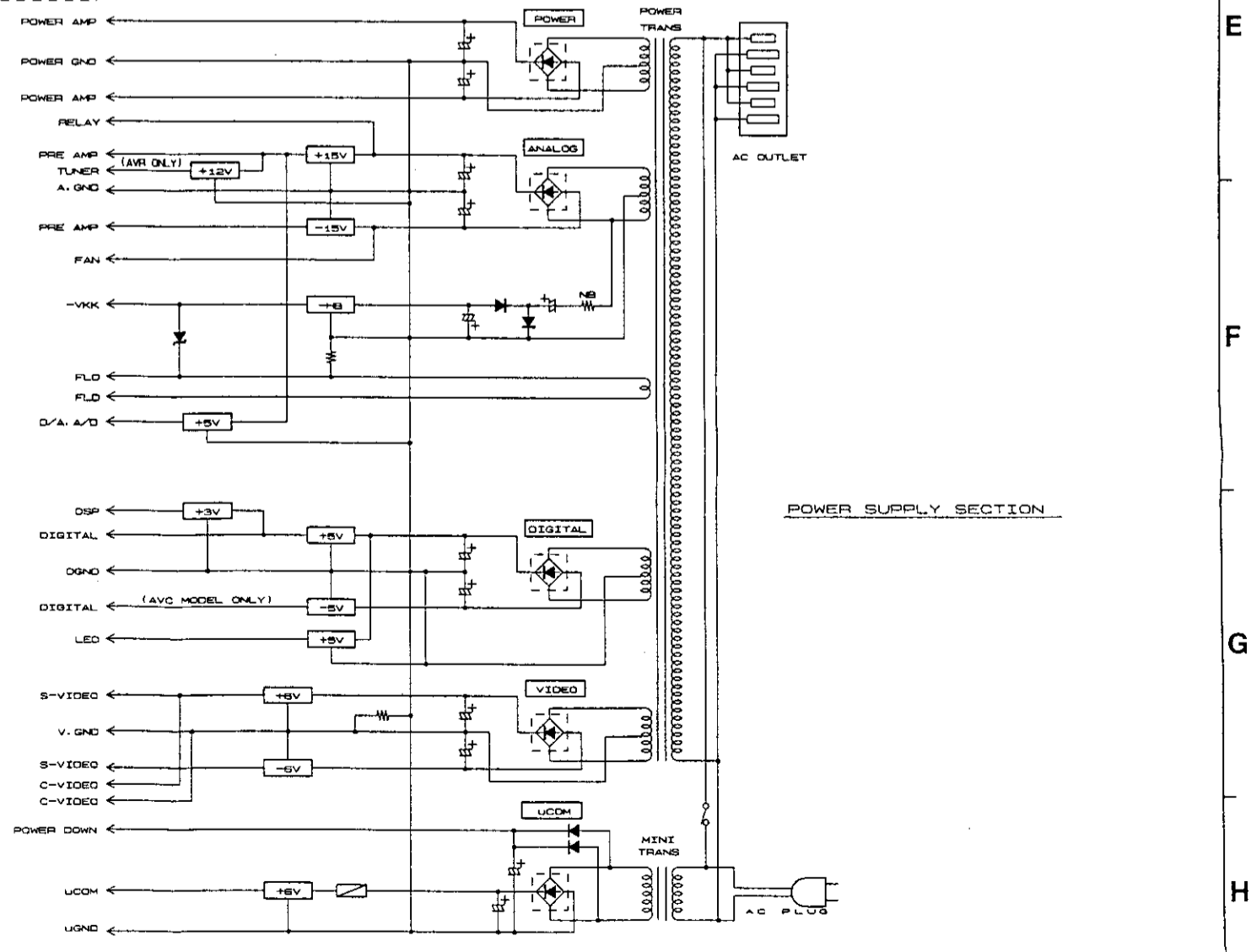
6



6 7 8 9 10 11



SECTION



POWER SUPPLY SECTION

A B C D E F G H

WIRING DIAGRAM

1 2 3 4 5 6

A

B

C

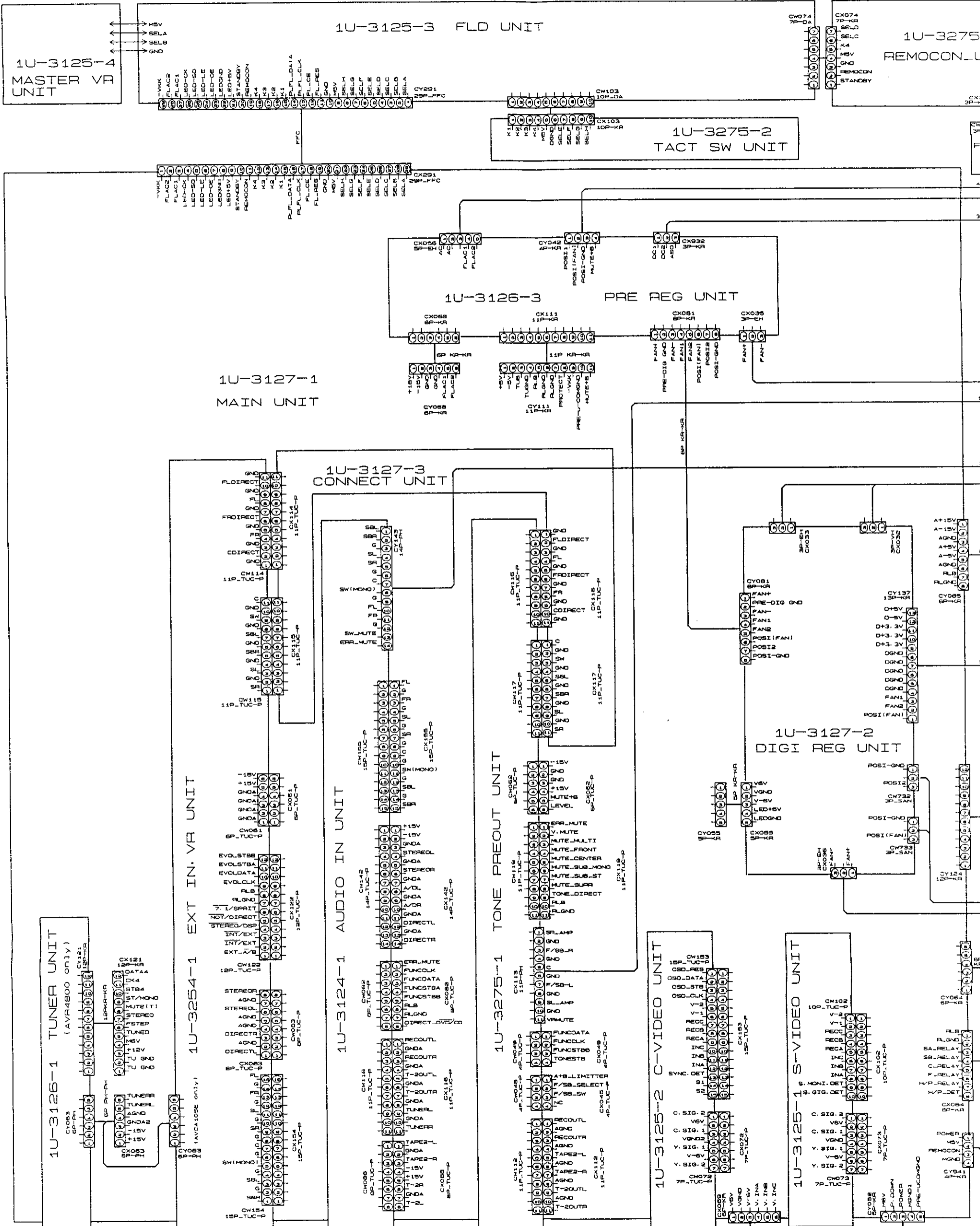
D

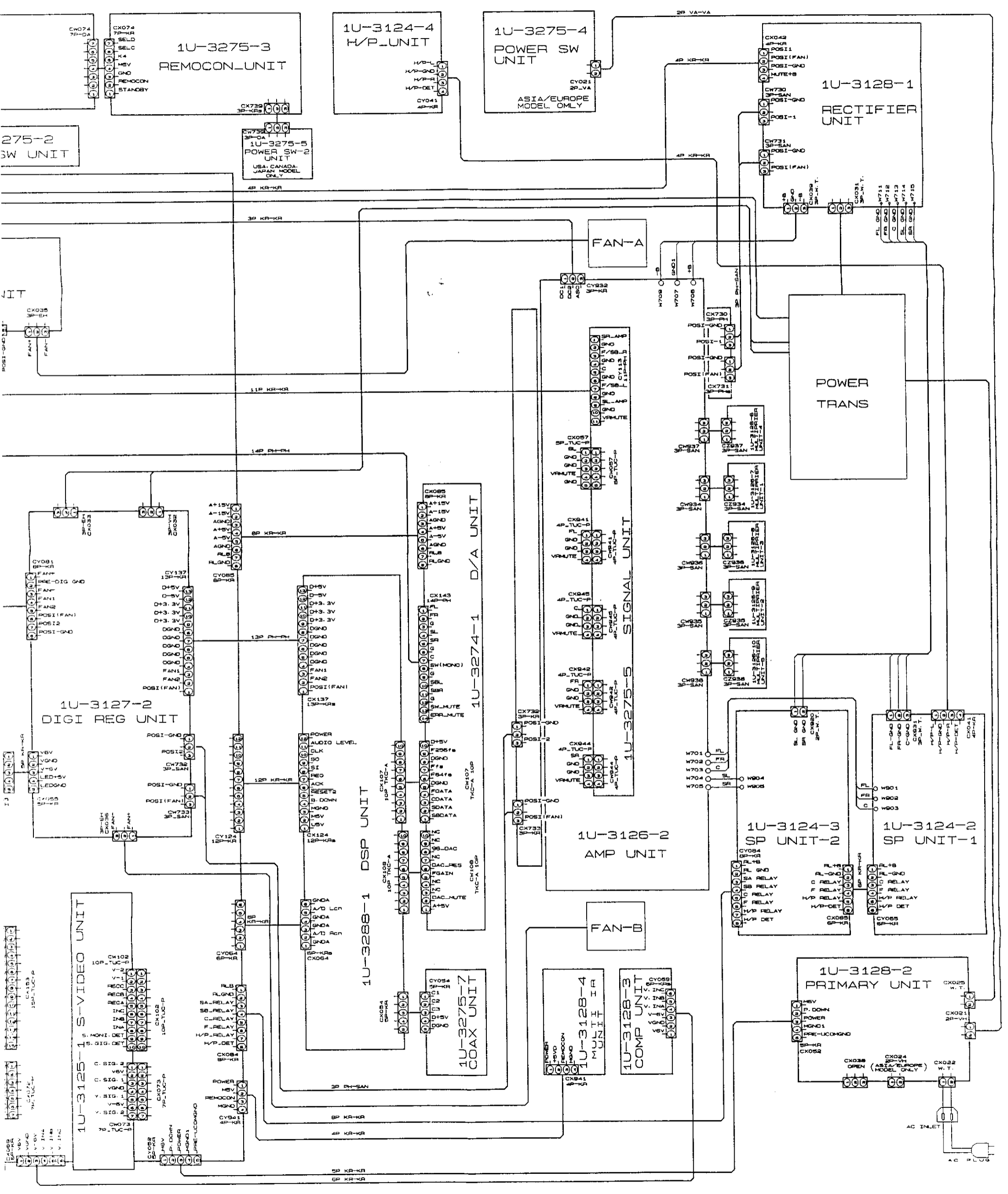
E

F

G

H





SCHEMATIC DIAGRAMS (1/17)

1

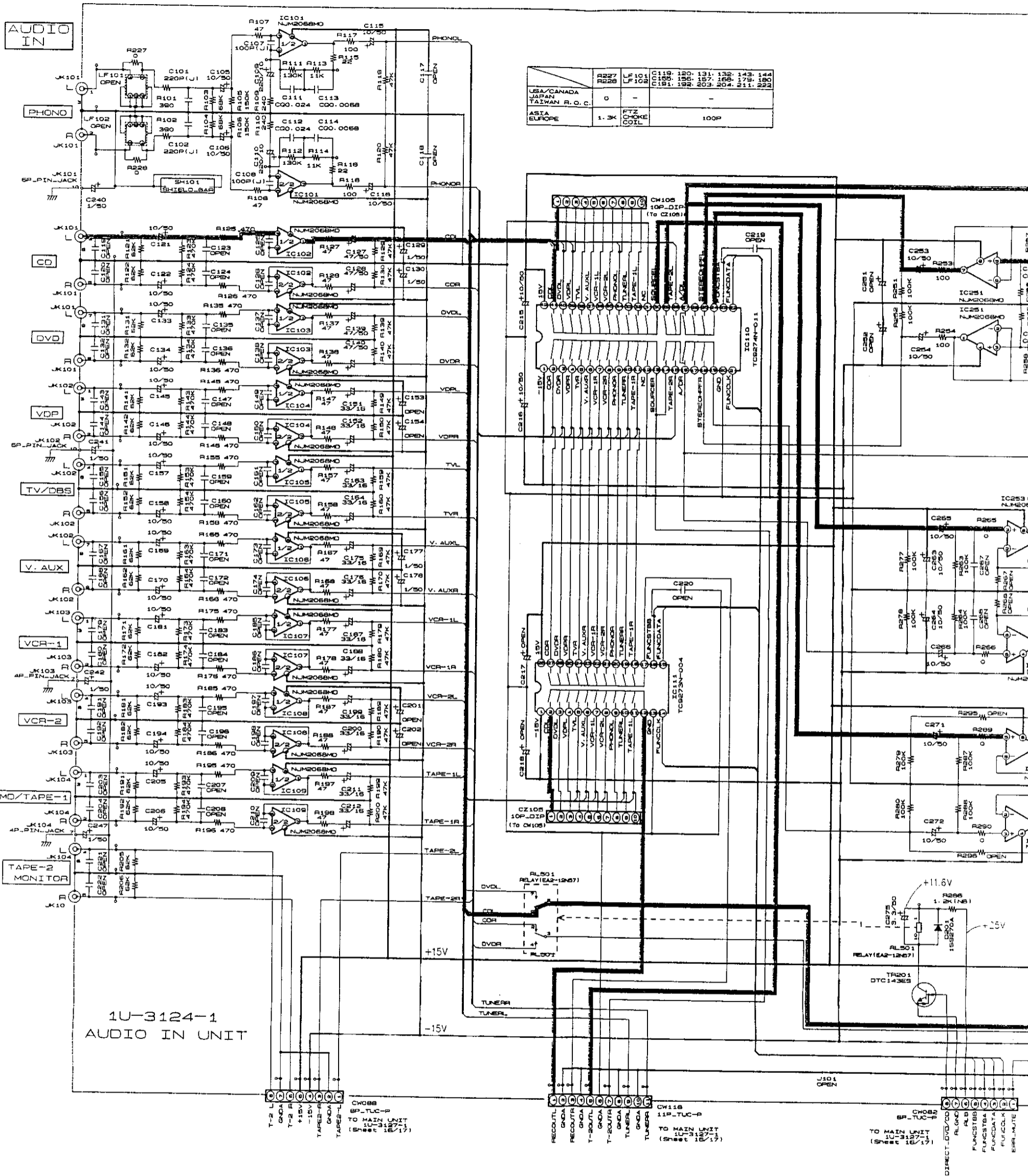
2

3

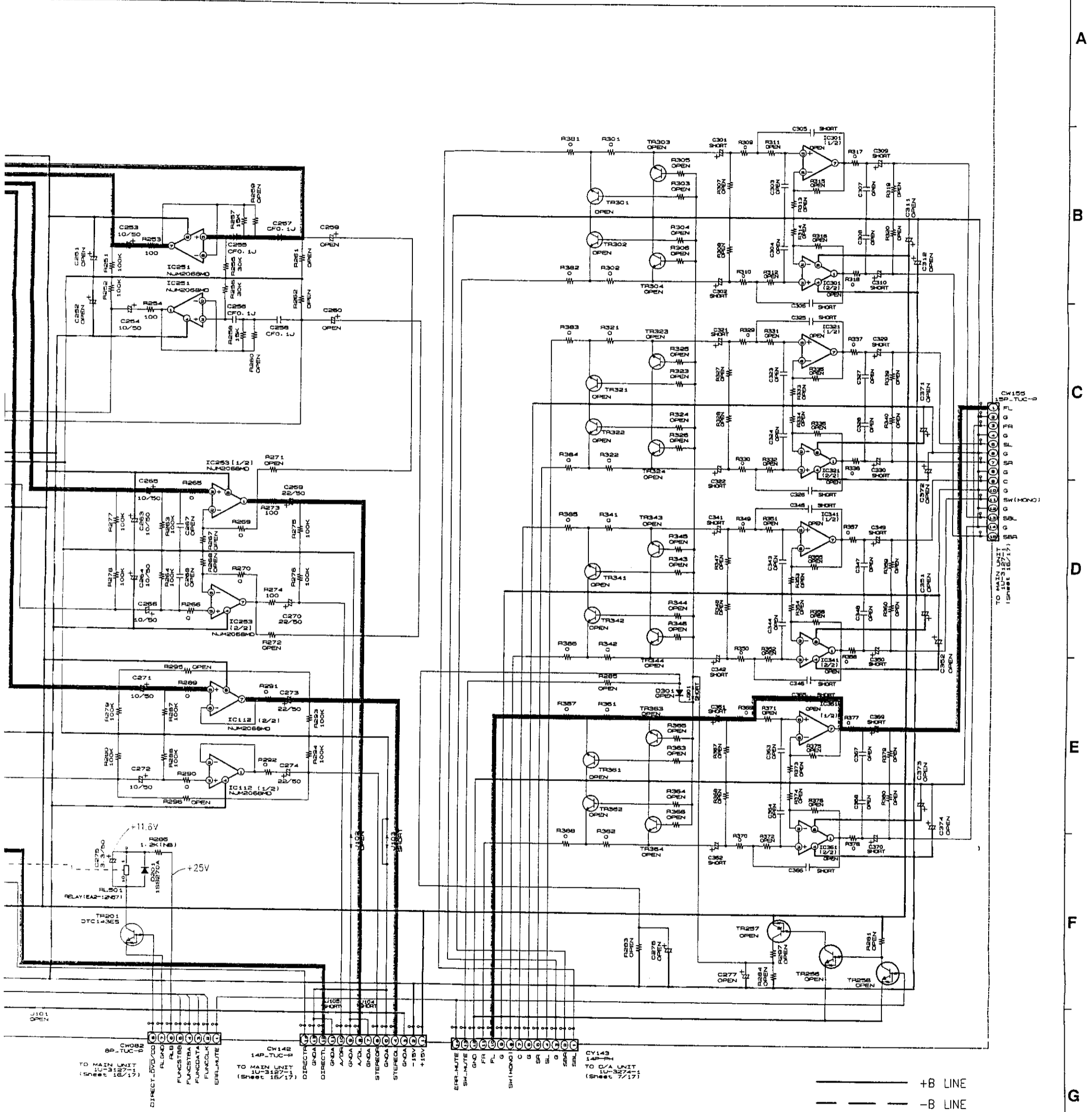
4

5

6



NOTICE
 ALL RESISTANCE VALUES IN OHM. K=1,000 OHM M=1,000,000
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO-FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PREVIOUS NOTICE.



WARNING:
RESISTANCE VALUES IN OHM, K=1,000 OHM, M=1,000,000 OHM
CAPACITANCE VALUES IN MICRO-FARAD, P=MICRO-MICRO-FARAD
VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
ON.

AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol Δ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a chassis resistance check. If the leakage current exceeds 0.5 milliamperes, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

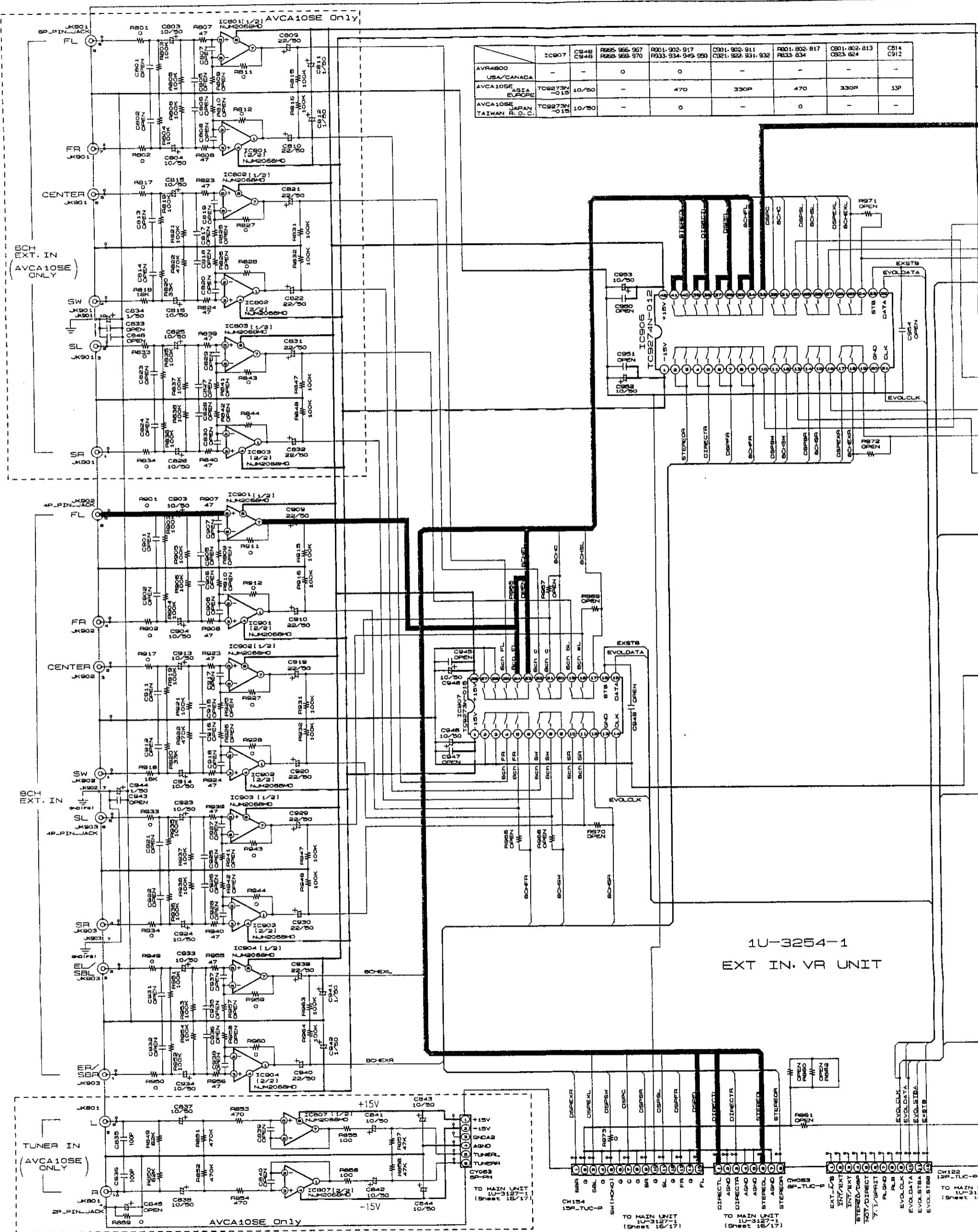
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

— +B LINE
- - - -B LINE
———— SIGNAL LINE

SCHEMATIC DIAGRAMS (2/17)

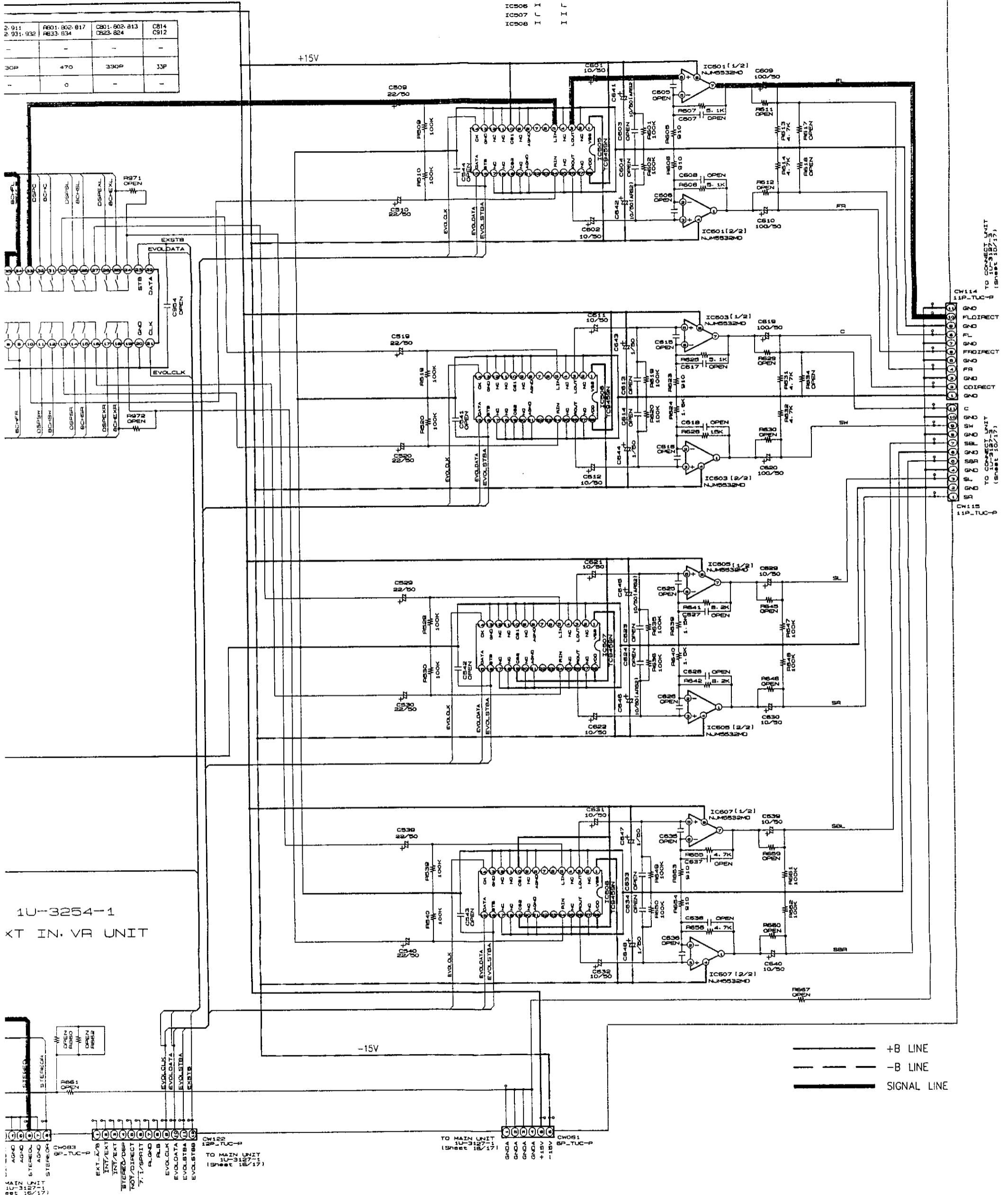
1 2 3 4 5 6

A
B
C
D
E
F
G
H

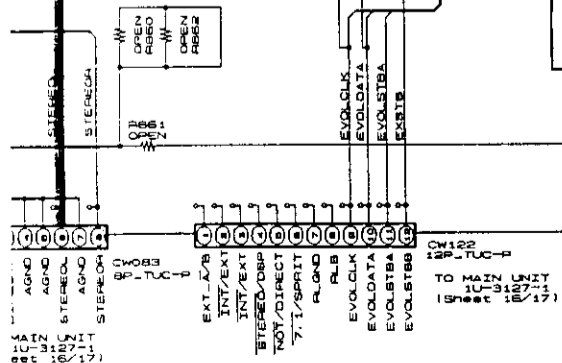


IC505 0
IC506 1
IC507 1
IC508 1

2 911 2 931-932	R601-802-817 R633-834	C801-802-813 C823-824	C814 C812
30P	470	330P	33P
-	0	-	-



1U-3254-1
EXT IN, VR UNIT



--- +B LINE
--- -B LINE
--- SIGNAL LINE

SCHEMATIC DIAGRAMS (2/17)
1U-3254-1 EXT IN, VR UNIT

SCHEMATIC DIAGRAMS (3/17)

1

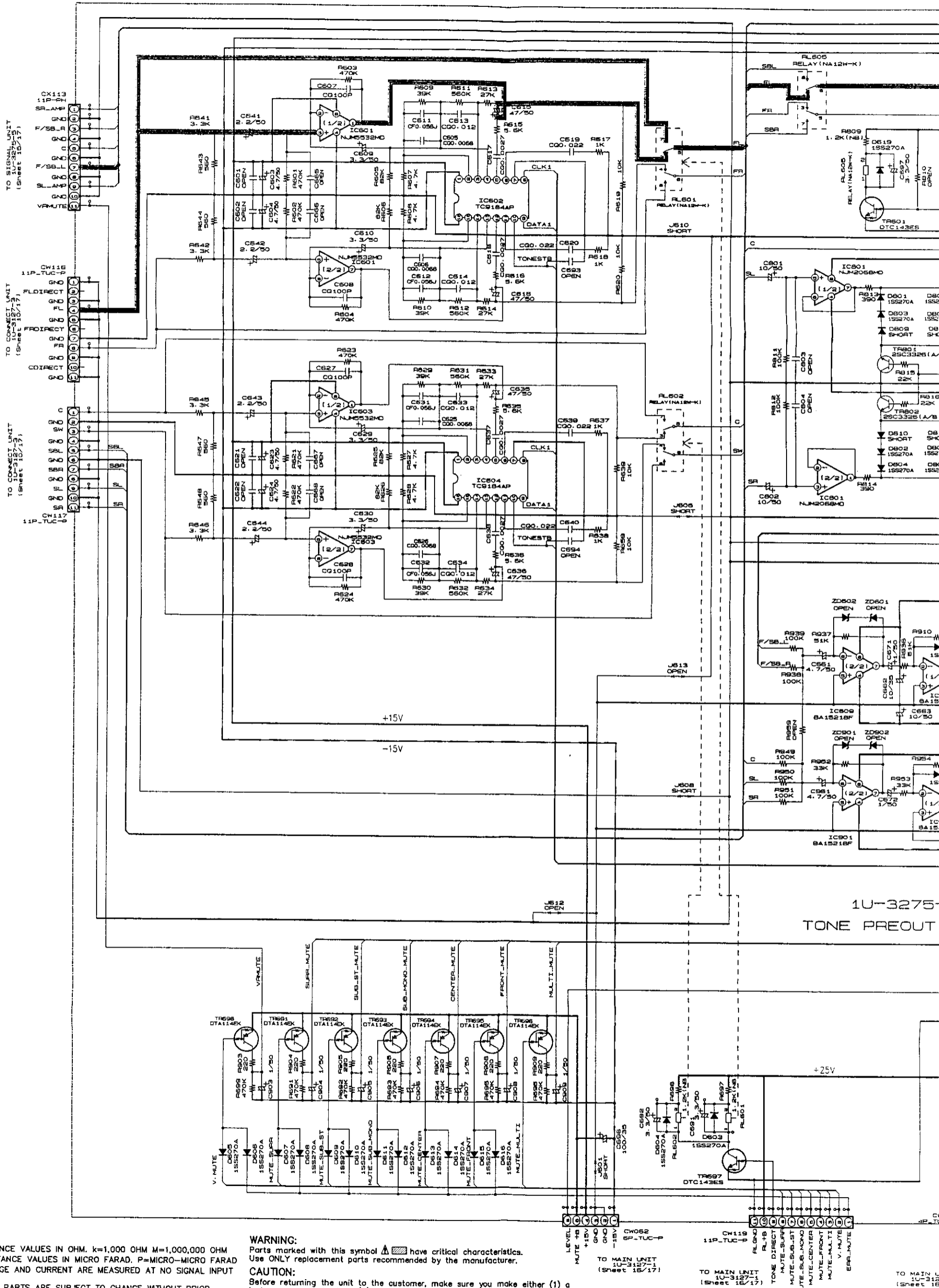
2

3

4

5

6



NOTICE

ALL RESISTANCE VALUES IN OHM. K=1,000 OHM M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

WARNING:

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 Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a
 leakage current check or (2) a chassis resistance check. If the leakage
 current exceeds 0.5 millamps, or if the resistance from chassis to either side
 of the power cord is less than 460 kohms, the unit is defective.

WARNING:

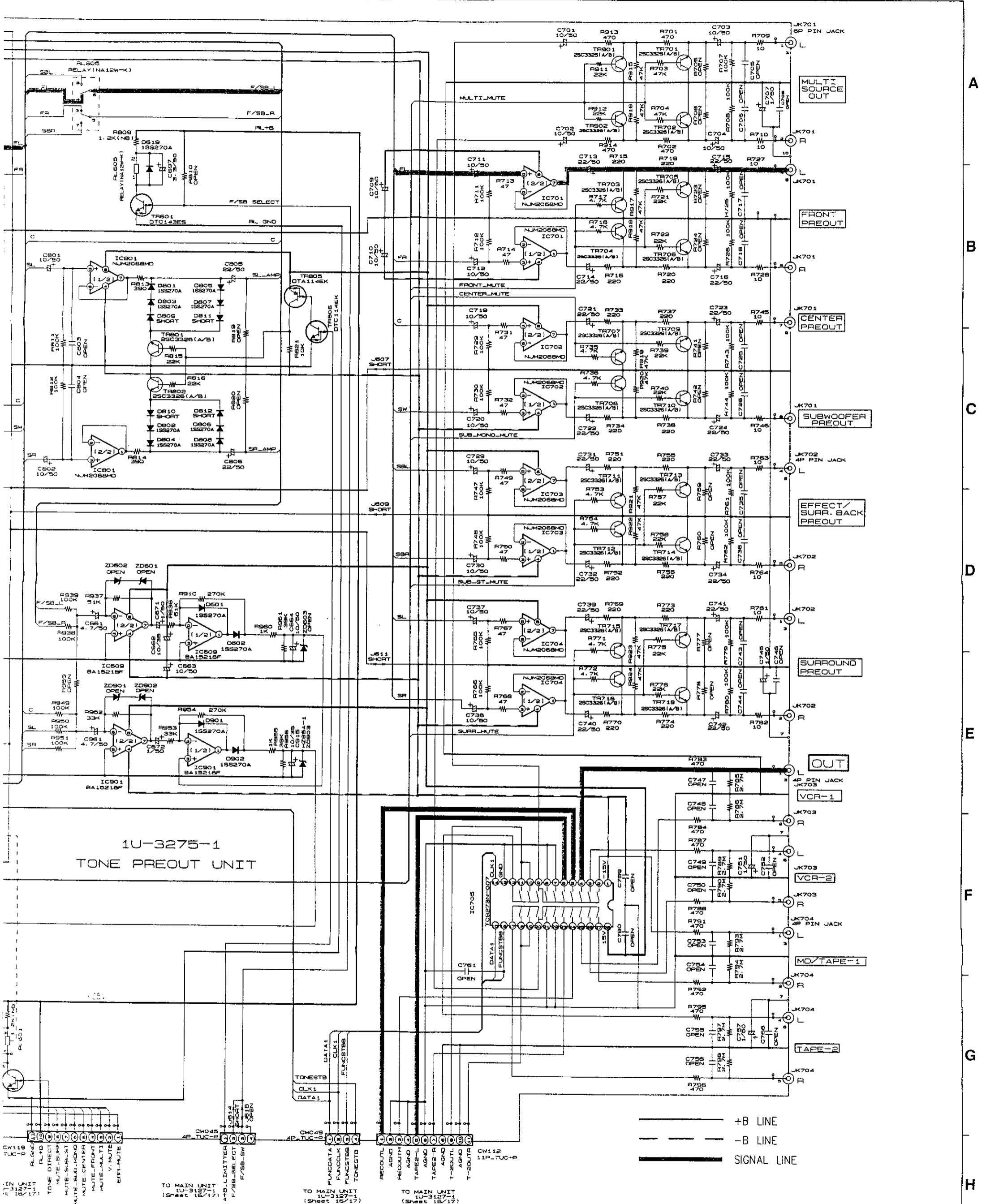
DO NOT return the unit to the customer until the problem is located and
 corrected.

1U-3275-
TONE PREOUT

TO MAIN UNIT
1U-3127-1
(Sheet 16/17)

TO MAIN UNIT
1U-3127-1
(Sheet 16/17)

6 7 8 9 10 11



SCHEMATIC DIAGRAMS (3/17)
1U-3275-1 TONE PREOUT UNIT

SCHEMATIC DIAGRAMS (4/17)

1 2 3 4 5 6

A

B

C

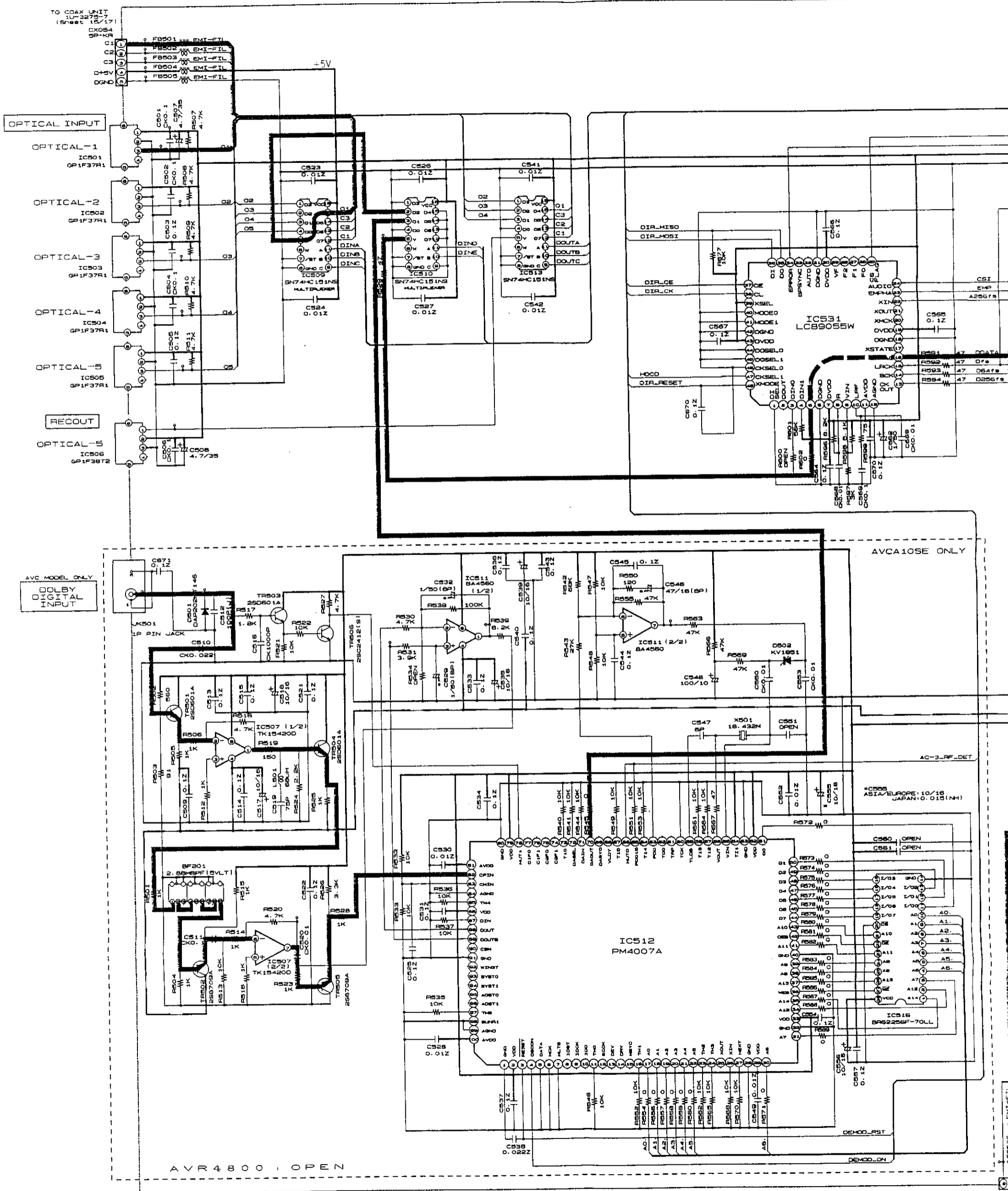
D

E

F

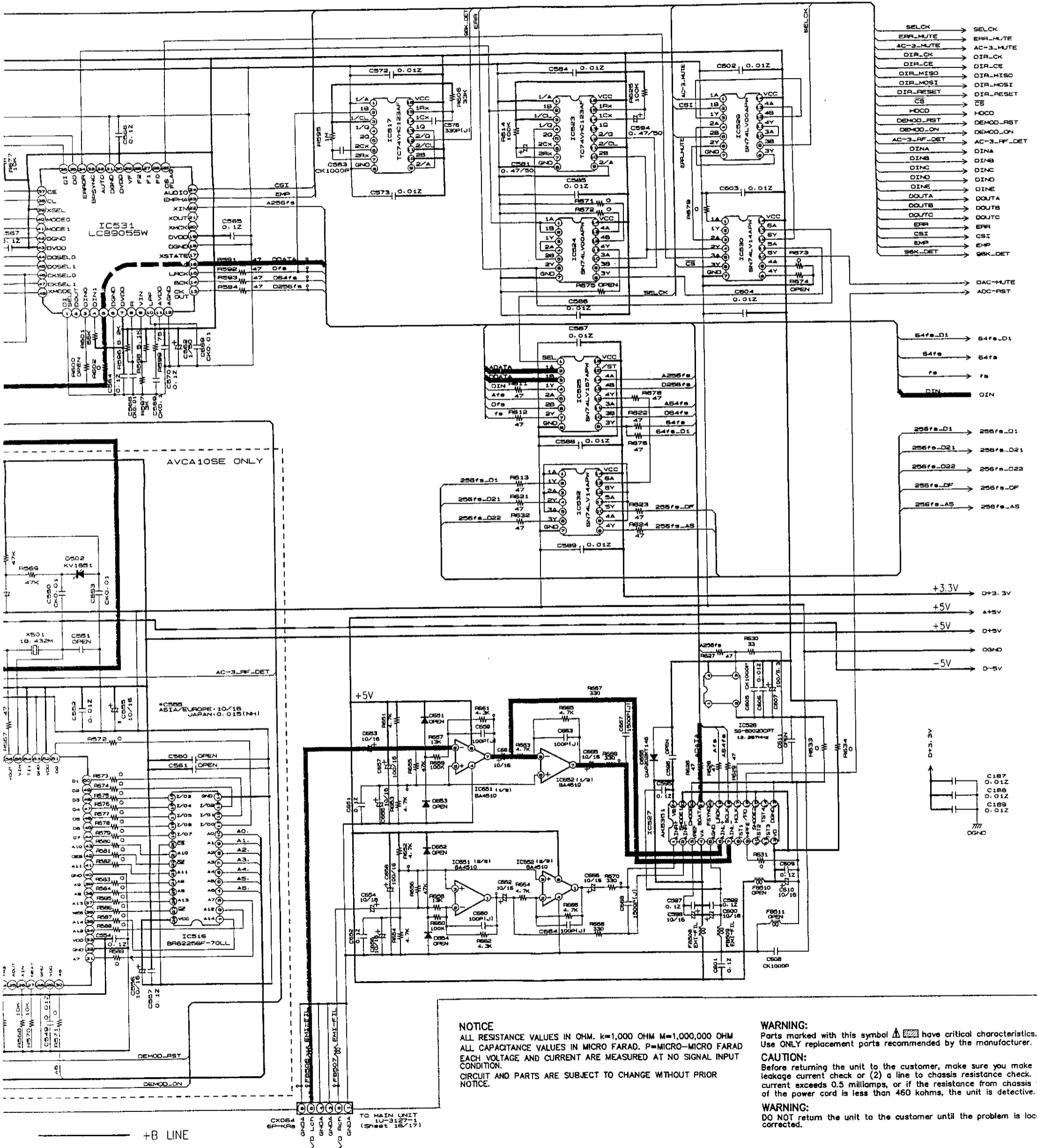
G

H



— +B LINE
 - - - -B LINE
 ——— SIGNAL LINE

1U-3288-1 DSP UNIT (1/3)



NOTICE
 ALL RESISTANCE VALUES IN OHM. K=1,000 OHM M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

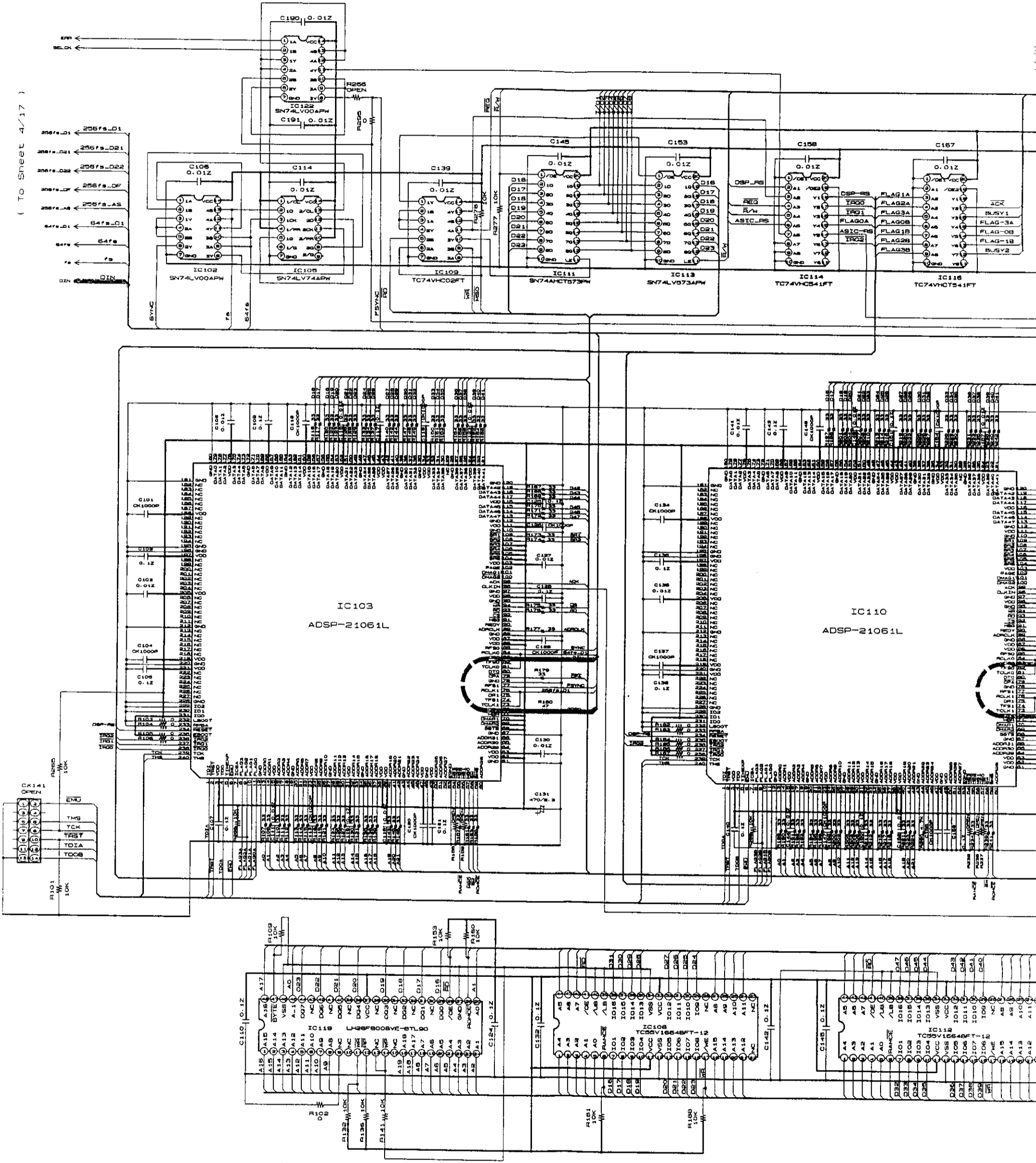
WARNING:
 Parts marked with this symbol Δ have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
 Before returning the unit to the customer, make sure you make either (1) a
 leakage current check or (2) a line to chassis resistance check. If the leakage
 current exceeds 0.5 millamps, or if the resistance from chassis to either side
 of the power cord is less than 460 kohms, the unit is defective.

WARNING:
 DO NOT return the unit to the customer until the problem is located and
 corrected.

1U-3288-1 DSP UNIT (2/3)

(To Sheet 4/17)

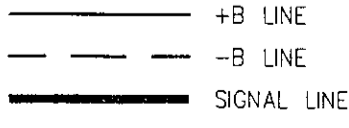
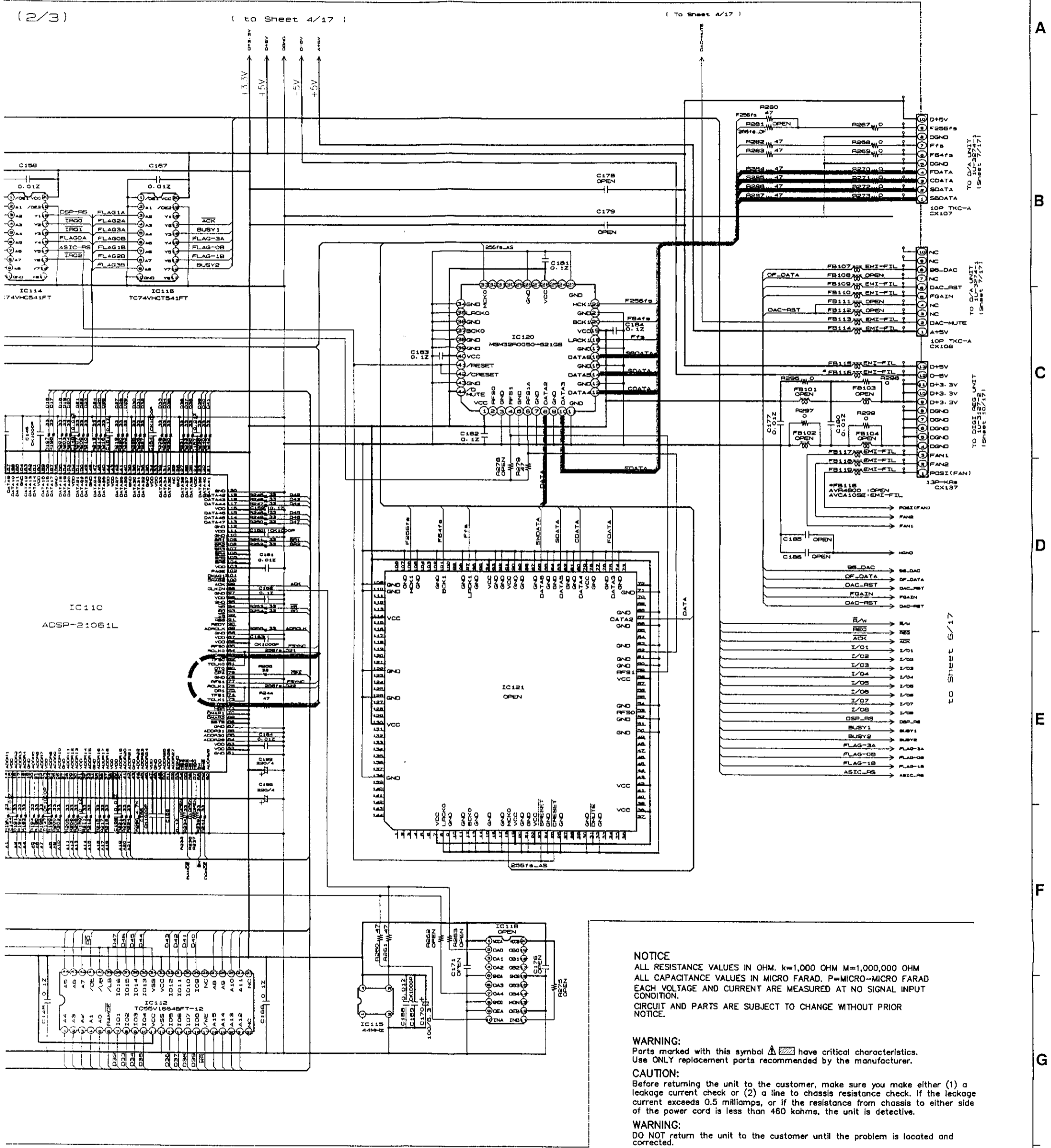


IC SOCKET for IC115 : 2070020005

(2/3)

(to Sheet 4/17)

(To Sheet 4/17)



NOTICE
 ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
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 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
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 leakage current check or (2) a chassis resistance check. If the leakage
 current exceeds 0.5 millamps, or if the resistance from chassis to either side
 of the power cord is less than 460 kohms, the unit is defective.

WARNING:
 DO NOT return the unit to the customer until the problem is located and
 corrected.

SCHEMATIC DIAGRAMS (6/17)

1 2 3 4 5 6

A

B

C

D

E

F

G

H

to Sheet 5/17

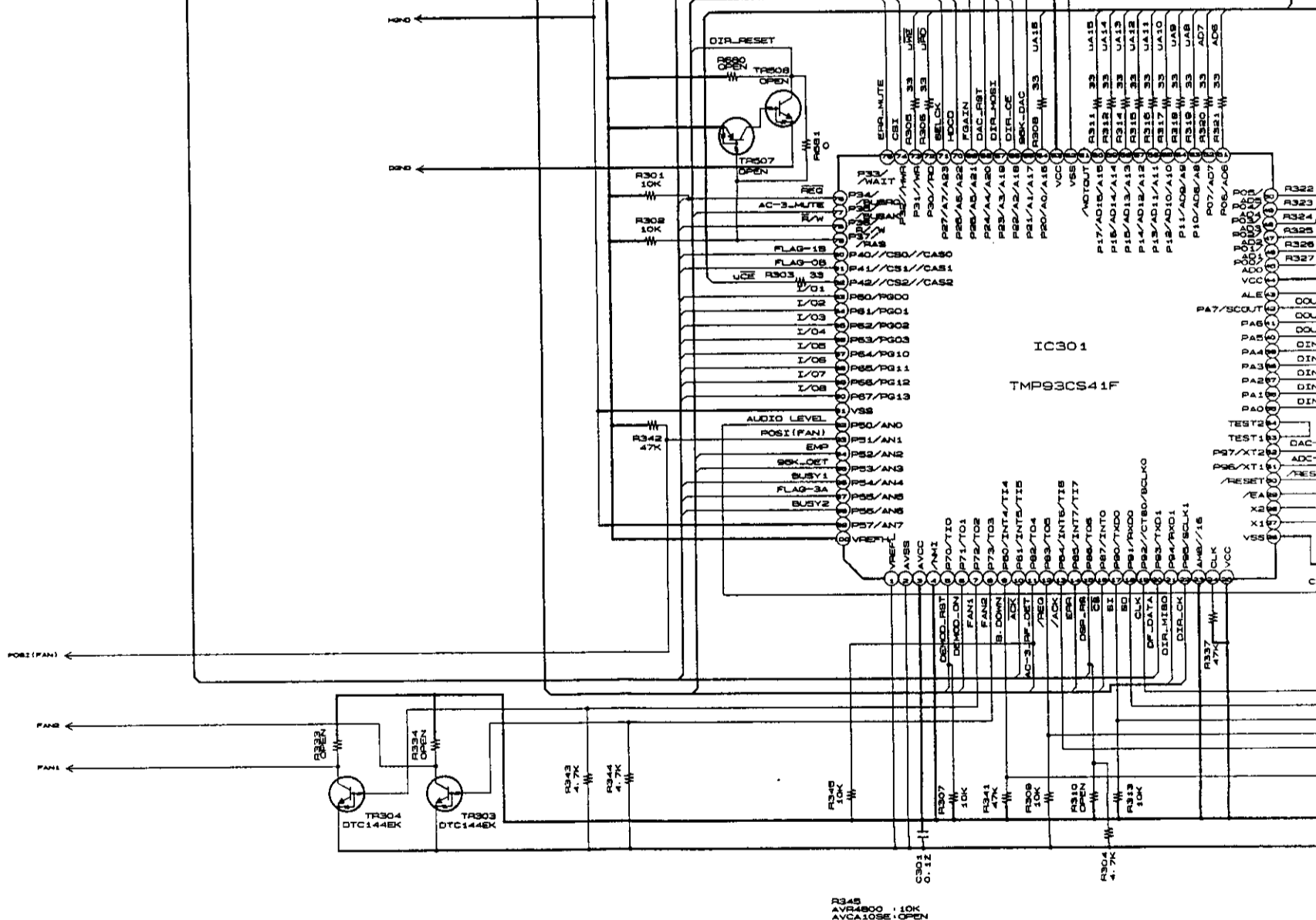
to Sheet 4/17

to Sheet 5/17

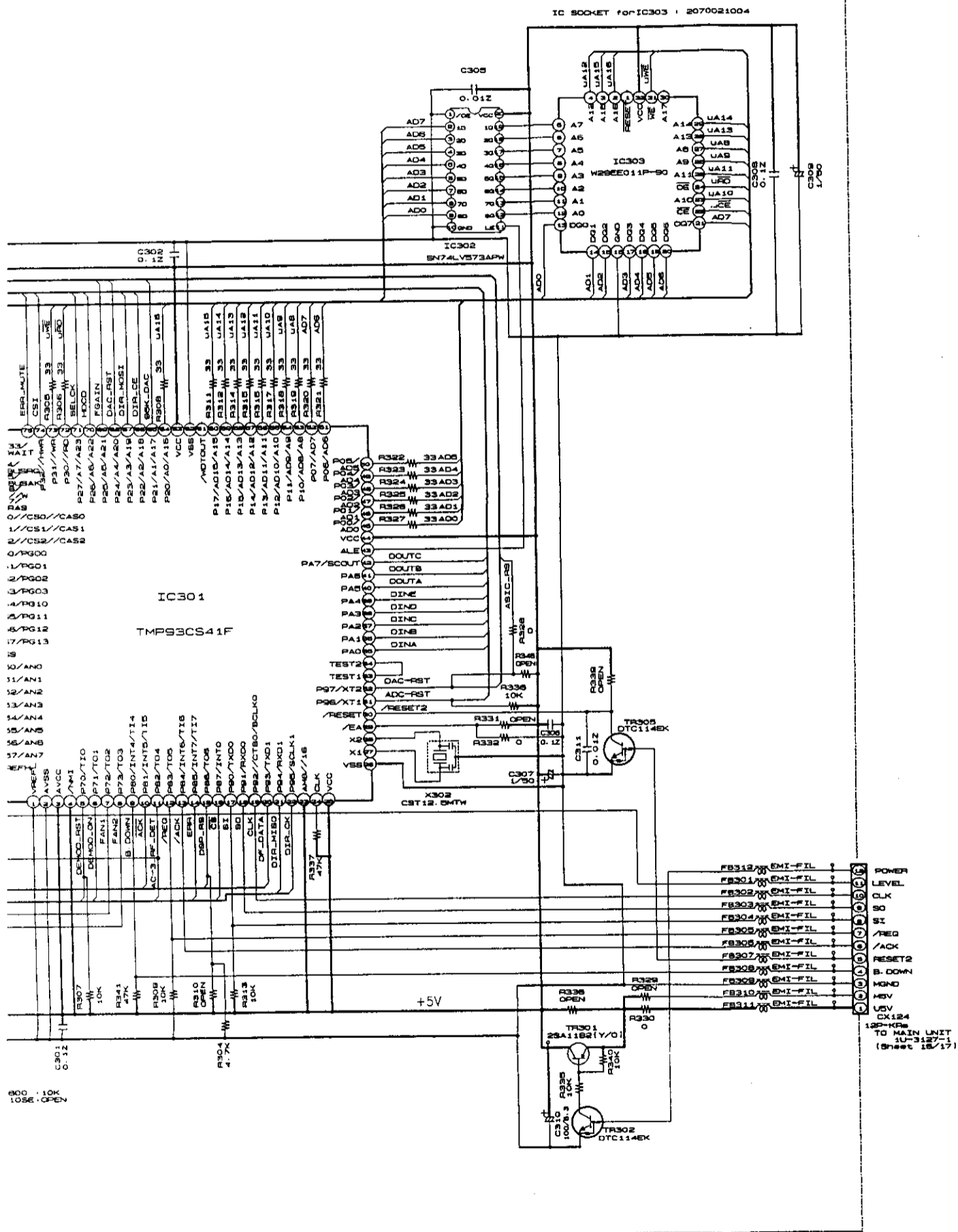
1U-3288-1 DSP UNIT (3/3)

DIR-DAC	←	96_DAC
DF-DATA	←	DF_DATA
DAC-RST	←	DAC_RST
PGAIN	←	PGAIN
DAC-RST	←	DAC_RST
R/W	←	R/W
REG	←	REG
ACK	←	ACK
L/O1	←	L/O1
L/O3	←	L/O3
L/O4	←	L/O4
L/O6	←	L/O6
L/O7	←	L/O7
L/O8	←	L/O8
DSP_RS	←	DSP_RS
BUSY1	←	BUSY1
BUSY2	←	BUSY2
FLAG-3A	←	FLAG-3A
FLAG-0B	←	FLAG-0B
FLAG-1B	←	FLAG-1B
ASIC_RS	←	ASIC_RS

SELCK	←	SELCK
ERR-MUTE	←	ERR-MUTE
AC-3-MUTE	←	AC-3-MUTE
DIR-CK	←	DIR-CK
DIR-CE	←	DIR-CE
DIR-MISO	←	DIR-MISO
DIR-MOSI	←	DIR-MOSI
DIR-RESET	←	DIR-RESET
CS	←	CS
HOCO	←	HOCO
DEM0D_RST	←	DEM0D_RST
DEM0D_ON	←	DEM0D_ON
AC-3-RF_DET	←	AC-3-RF_DET
AOC-RST	←	AOC-RST
DINA	←	DINA
DINB	←	DINB
DINC	←	DINC
DINO	←	DINO
DINE	←	DINE
DOUA	←	DOUA
DOUB	←	DOUB
DOUC	←	DOUC
DOUD	←	DOUD
CS1	←	CS1
CS2	←	CS2
SSK_DET	←	SSK_DET



DSP UNIT (3/3)



NOTICE
 ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
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 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

WARNING:
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CAUTION:
 Before returning the unit to the customer, make sure you make either (1) a
 leakage current check or (2) a line to chassis resistance check. If the leakage
 current exceeds 0.5 millamps, or if the resistance from chassis to either side
 of the power cord is less than 460 kohms, the unit is defective.

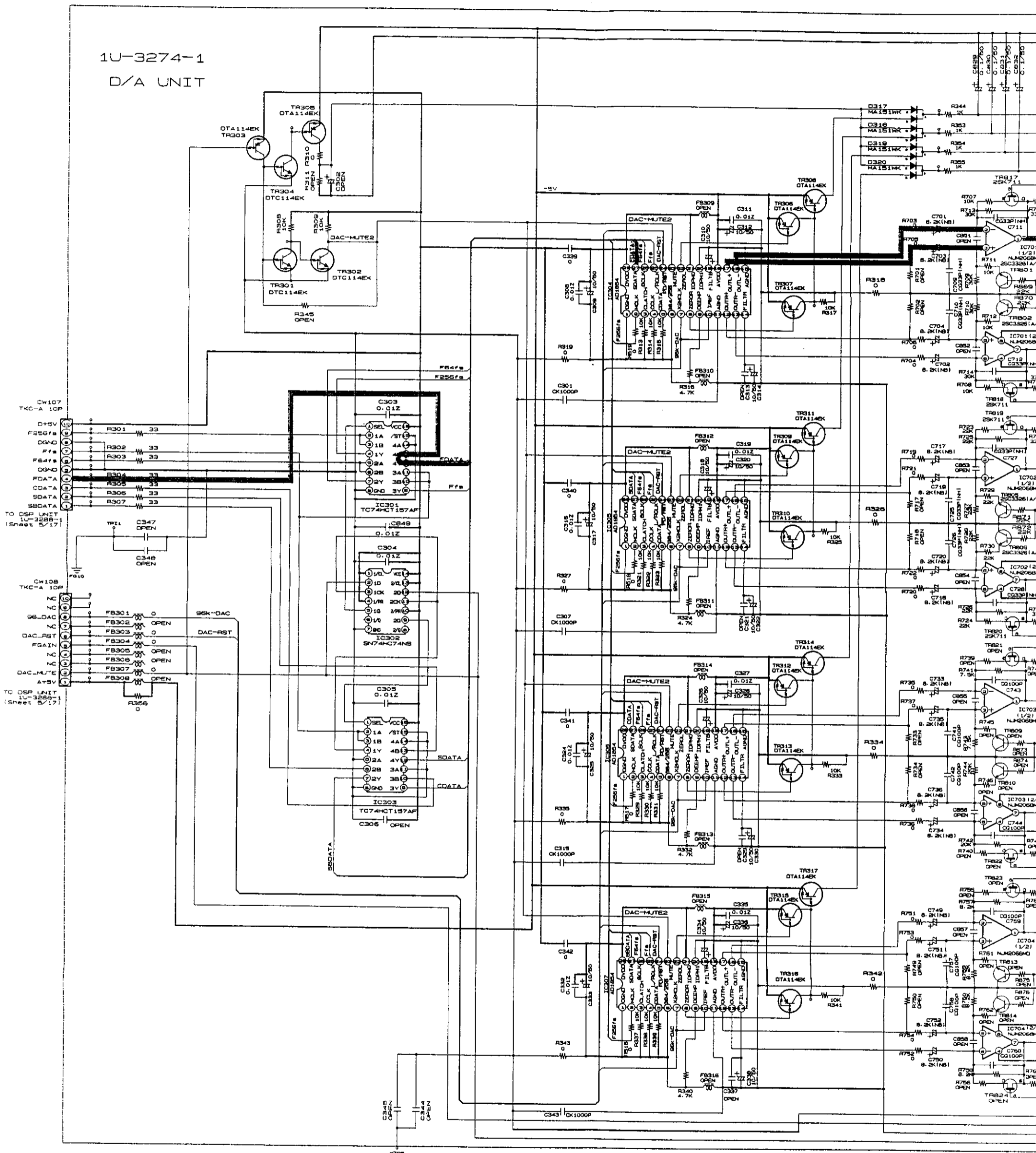
WARNING:
 DO NOT return the unit to the customer until the problem is located and
 corrected.

— +B LINE

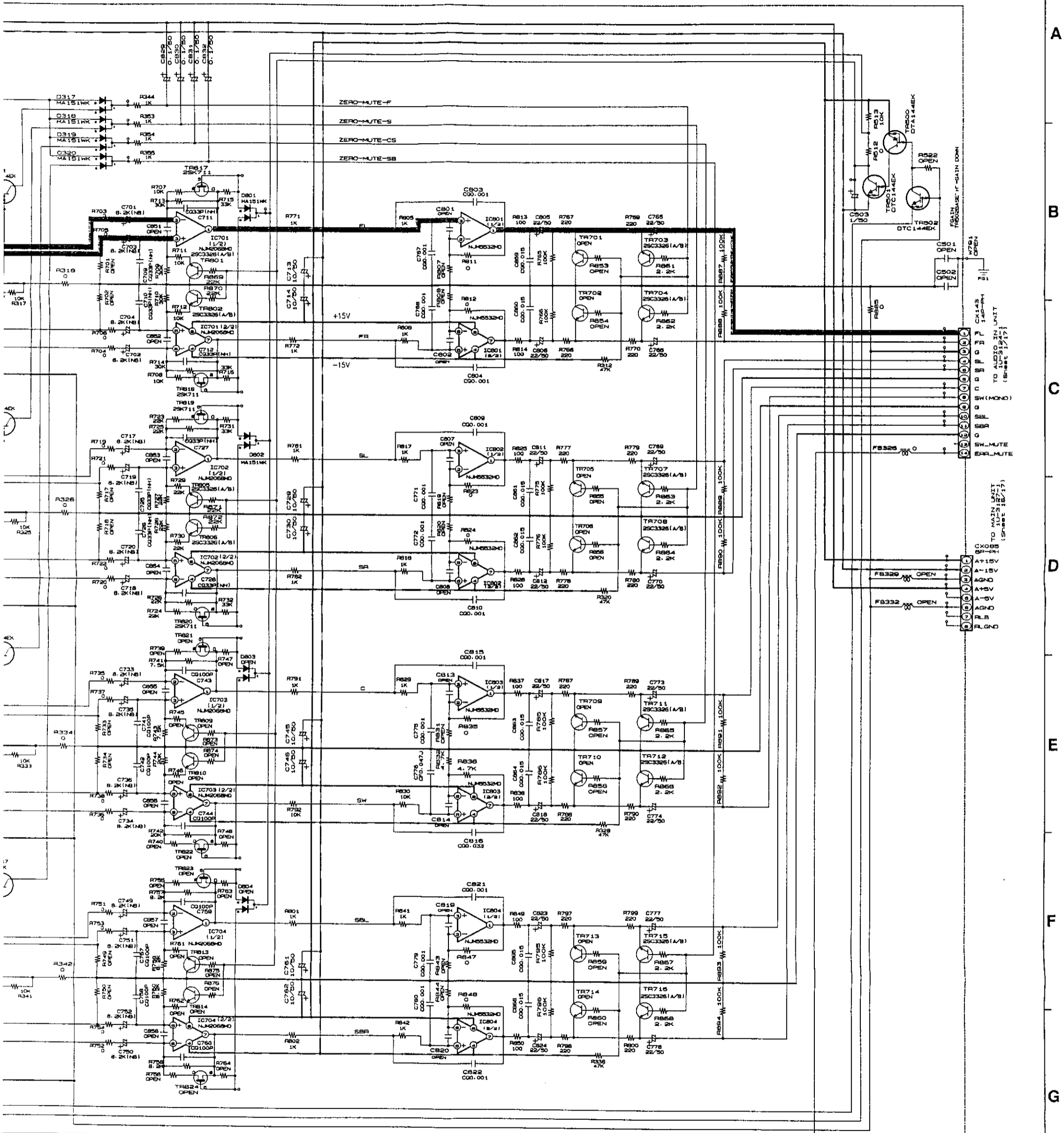
SCHEMATIC DIAGRAMS (7/17)

1 2 3 4 5 6

1U-3274-1
D/A UNIT



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL IN
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.



ANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
 TANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 GE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT

1) PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR

WARNING:

Parts marked with this symbol Δ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

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WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

— +B LINE
 — -B LINE
 — SIGNAL LINE

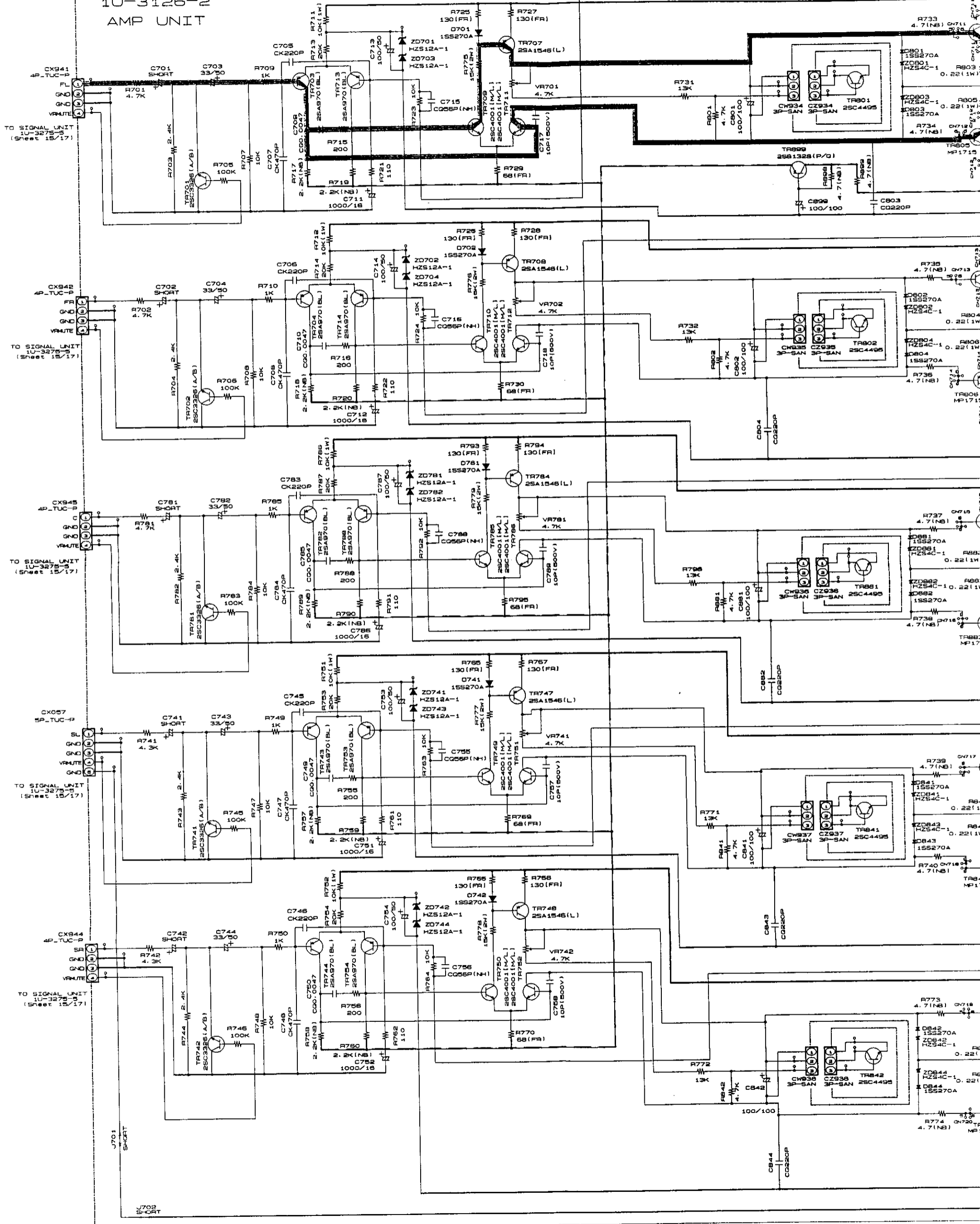
SCHEMATIC DIAGRAMS (7/17)
 1U-3274-1 D/A UNIT

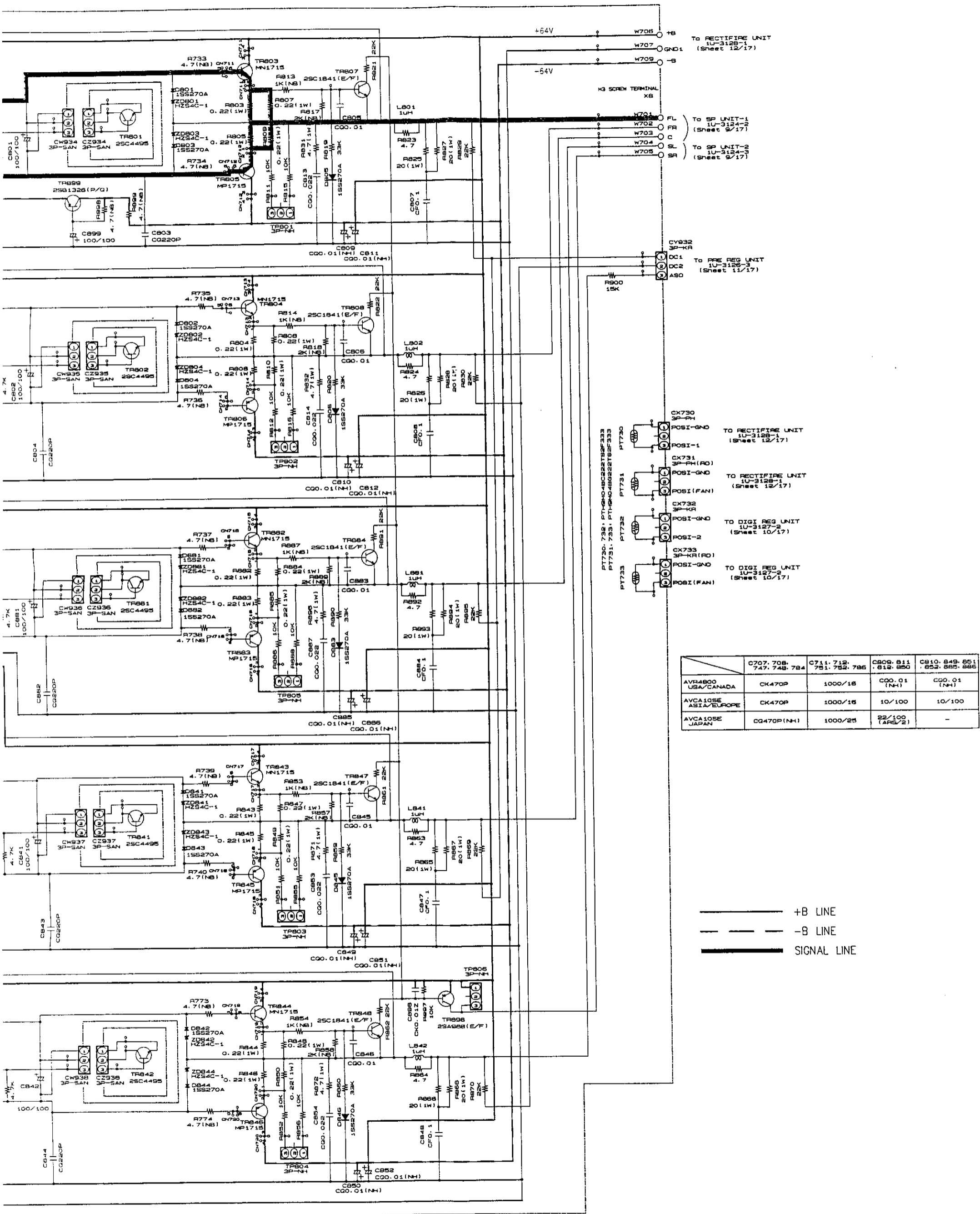
SCHEMATIC DIAGRAMS (8/17)

1 2 3 4 5 6

A
B
C
D
E
F
G
H

1U-3126-2
AMP UNIT





	C707, 708, 747, 748, 784	C711, 712, 751, 752, 786	C809, 811, 812, 850	C810, 849, 851, 852, 885, 886
AVR4800 USA/CANADA	CK470P	1000/15	COO.01 (NH)	COO.01 (NH)
AVCA105E ASIA/EUROPE	CK470P	1000/15	10/100	10/100
AVCA105E JAPAN	CQ470P(NH)	1000/25	22/100 (ARS/2)	-

_____ +B LINE
 _____ -B LINE
 _____ SIGNAL LINE

SCHMATIC DIAGRAMS (8/17)
1U-3126-2 AMP UNIT

SCHEMATIC DIAGRAMS (9/17)

1

2

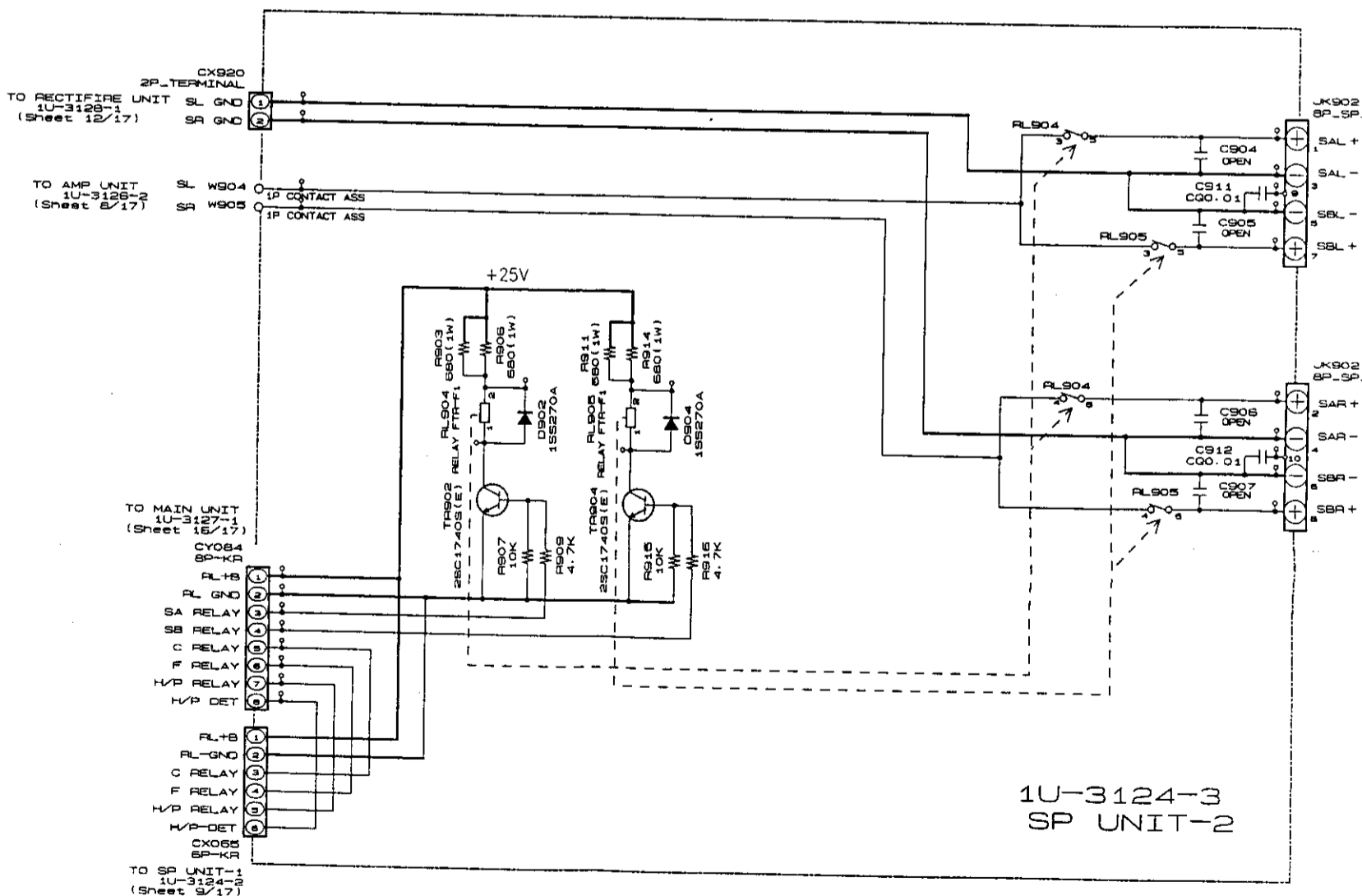
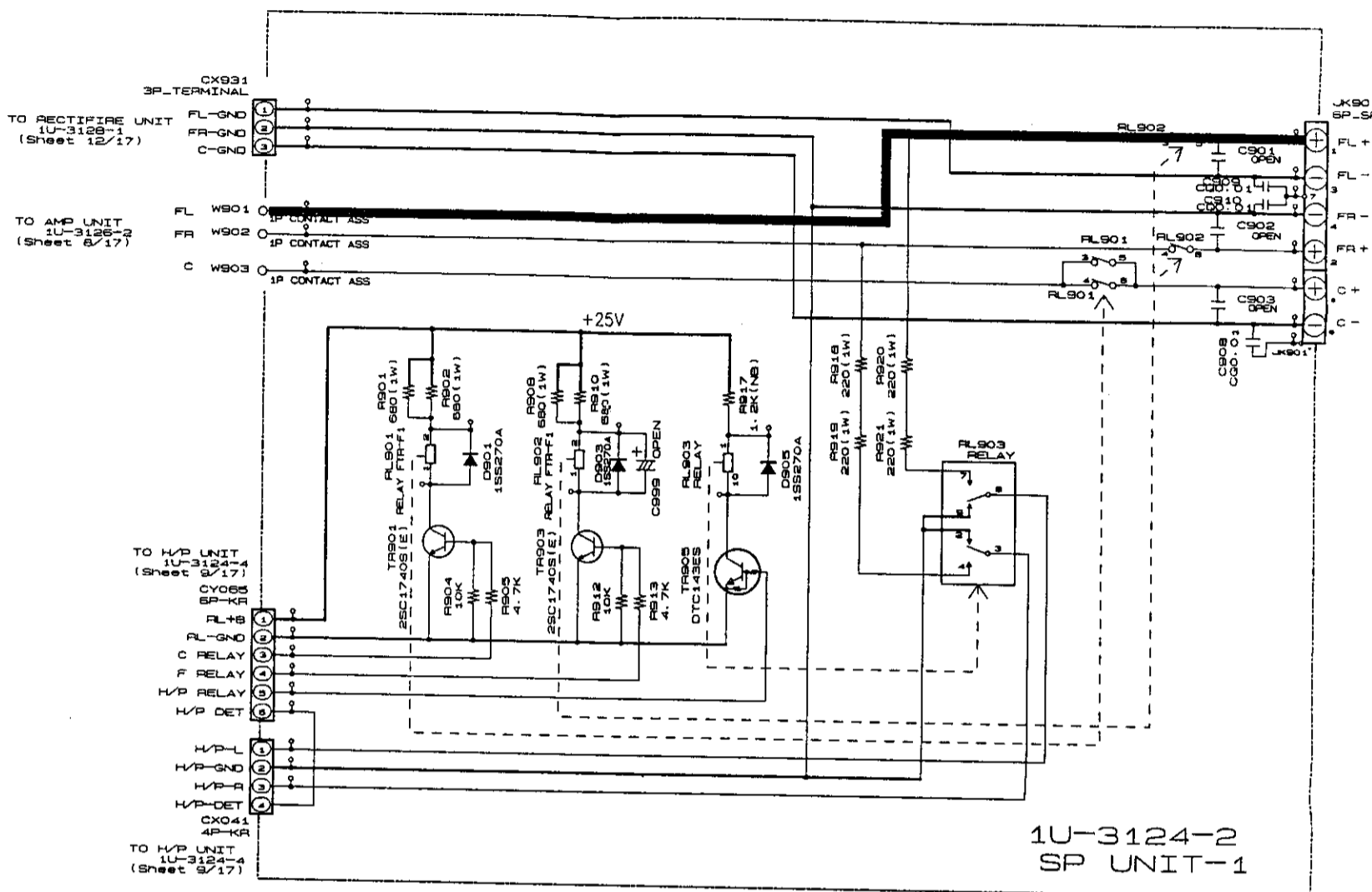
3

4

5

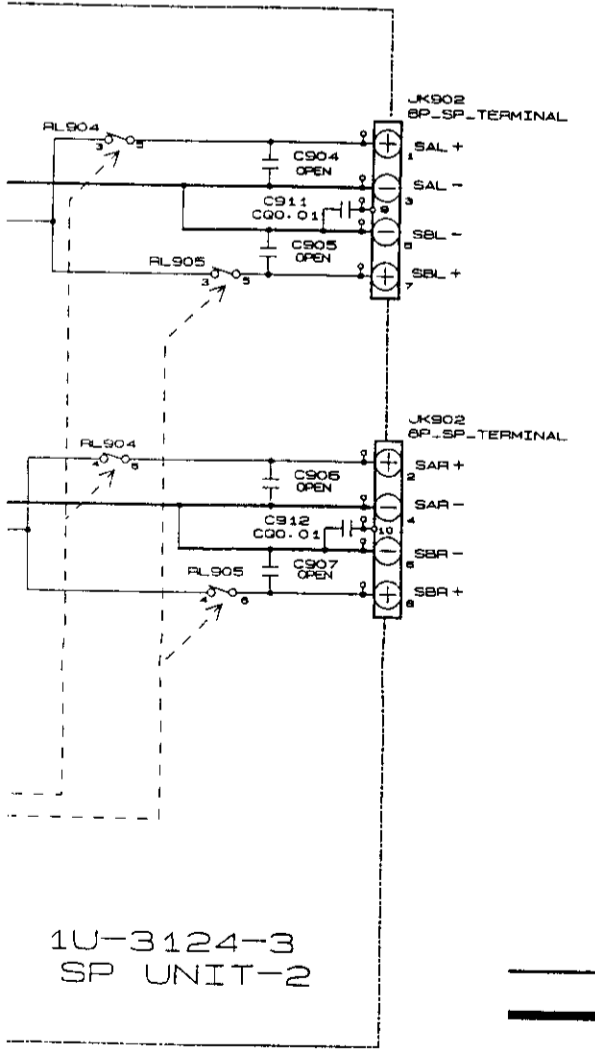
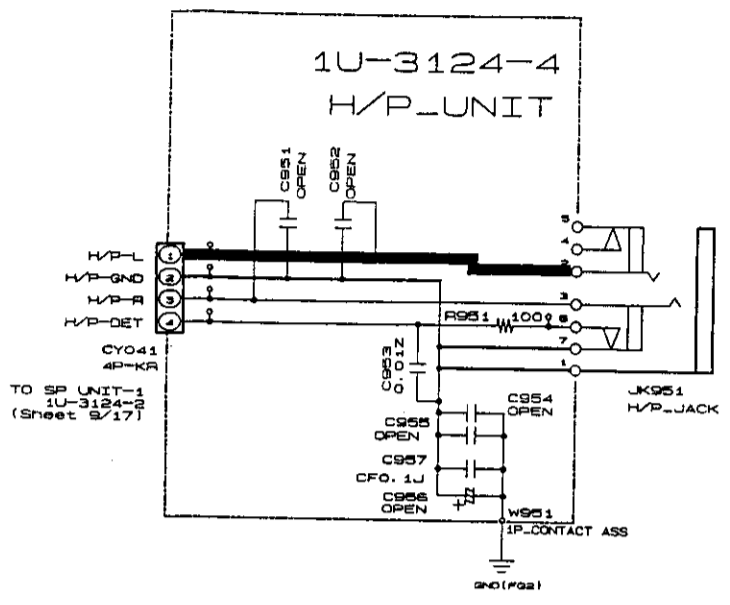
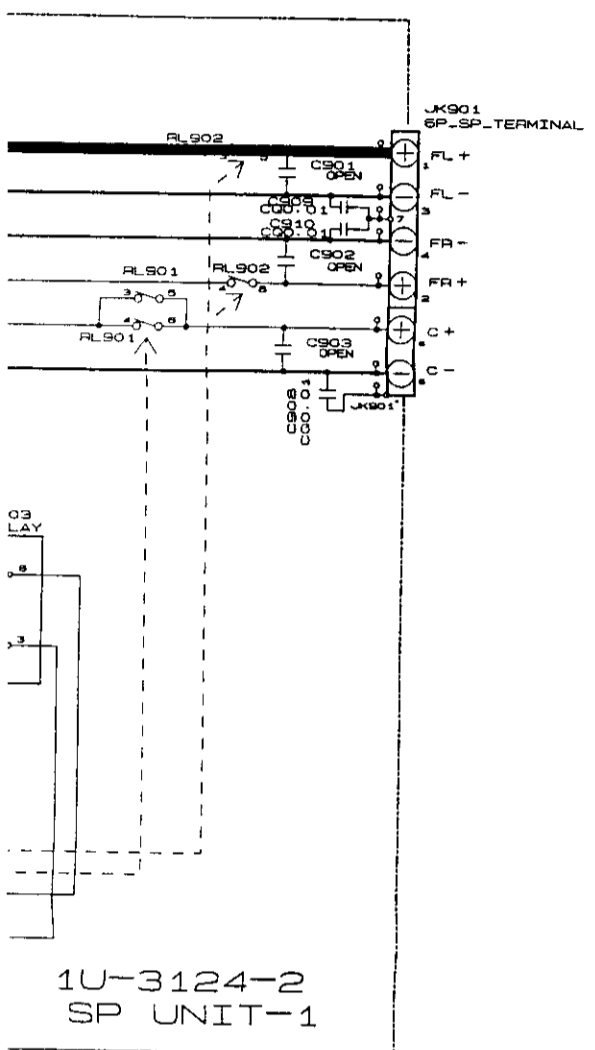
6

	C901, 902, 903, 904 - 905, 906, 907	C999
AVR4800 USA/CANADA	-	-
AVCA105E TAIWAN R. O. C.	-	-
AVCA105E ASIA/EUROPE	CQO. 01 (NH)	-
AVCA105E JAPAN	-	10/90 (ASF)



6 7 8 9 10 11

C999
-
-
-
10/50
[ASF]



— +B LINE
— SIGNAL LINE

NOTICE
ALL RESISTANCE VALUES IN OHM, k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD, P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
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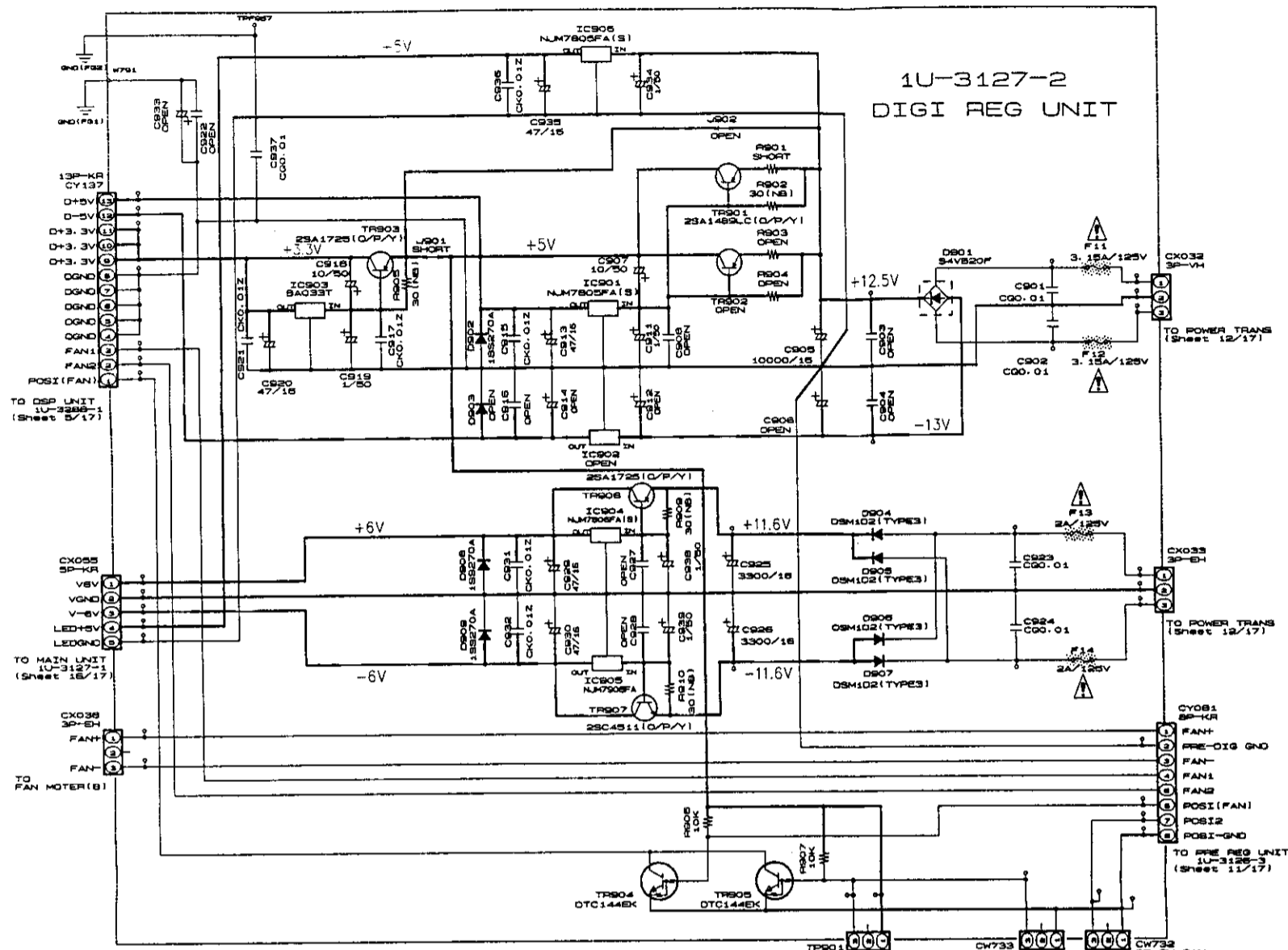
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

A
B
C
D
E
F
G
H

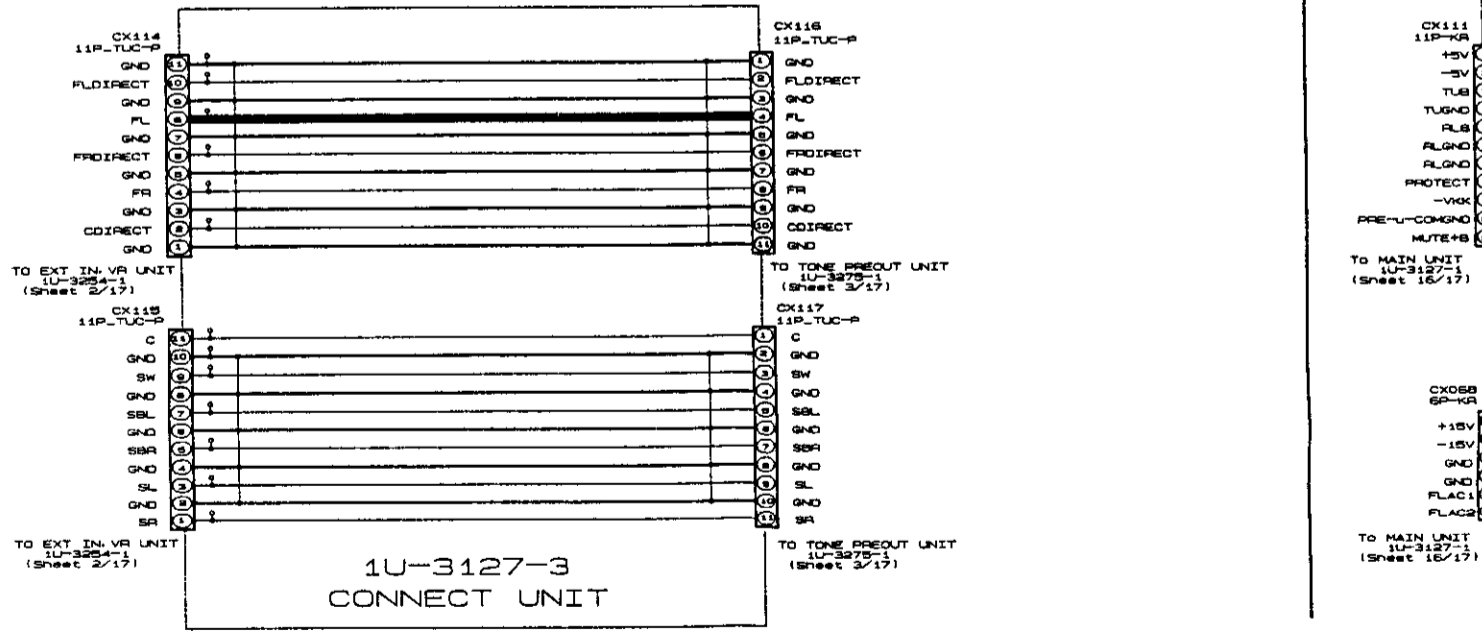
SCHEMATIC DIAGRAMS (10/17)

1 2 3 4 5 6

A
B
C
D
E
F
G
H



	F11 F12	F13 F14	IC902	C906	C912	C913	C914	D903	C913 C920 C930	C918	C919
AVR4800 USA/CANADA	3.15A/125V	2A/125V	-	-	-	-	-	-	47/16 SMG	10/50 SMG	1/50 SMG
AVCA10SE ASIA/EUROPE	3.15A/250V	2A/250V	NJM7905A	1000/16	1/50	47/16	47/16	1SS270A	47/16 SMG	10/50 SMG	1/50 SMG
AVCA10SE TAIWAN R.O.C.	3.15A/125V	2A/125V	NJM7905A	1000/16	1/50	47/16	47/16	1SS270A	47/16 SMG	10/50 SMG	1/50 SMG
AVCA10SE JAPAN	3.15A/125V	2A/125V	NJM7905A	1000/16	1/50	47/50	47/16	1SS270A	47/50 RA3	10/50 RA3	1/50 RA3

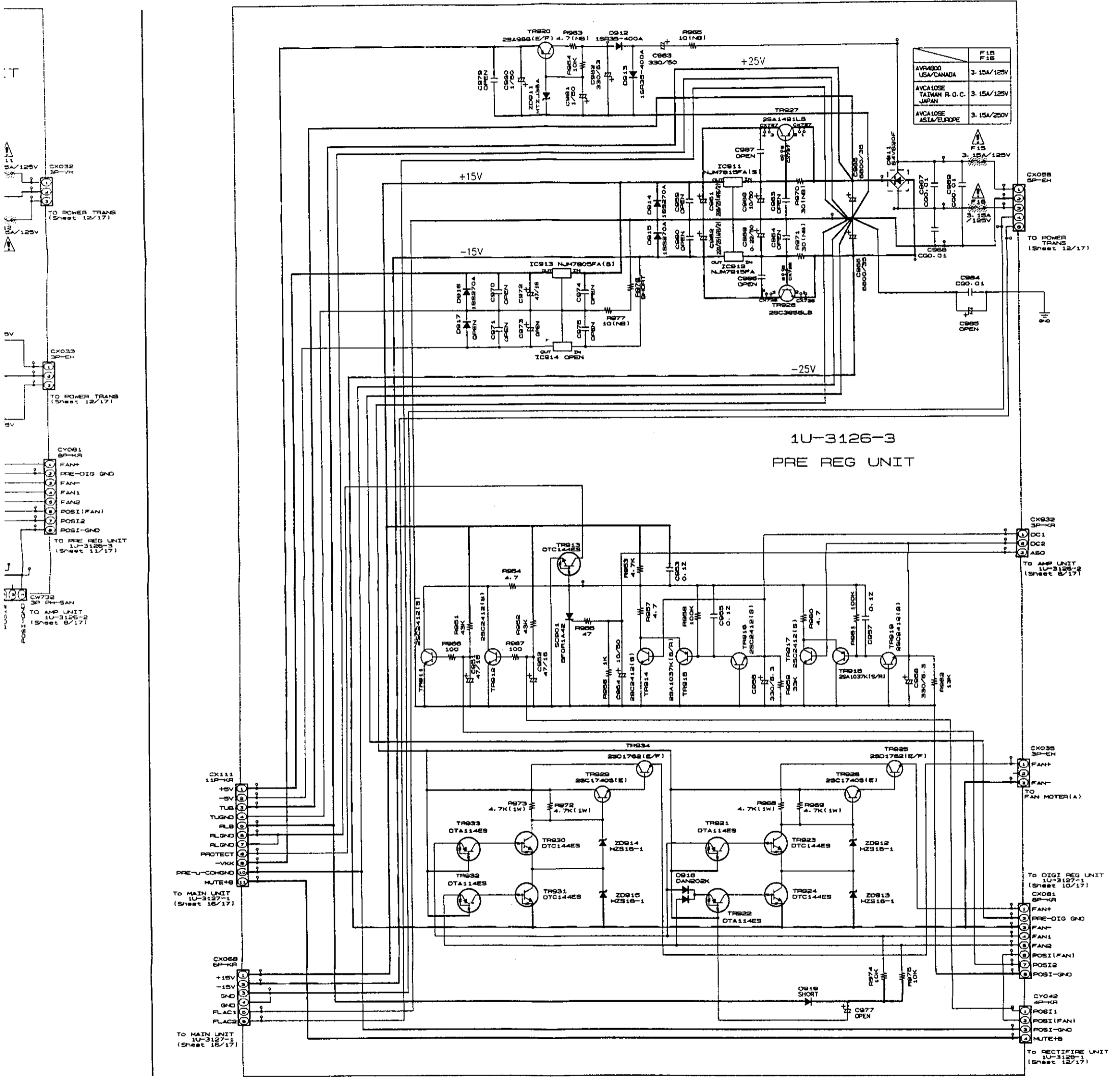


NOTICE
ALL RESISTANCE VALUES IN OHM. K=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
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of the power cord is less than 460 kohms, the unit is defective.

WARNING:
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corrected.

	C906	C908
AVR4800 USA/CANADA	-	-
AVCA10SE ASIA/EUROPE	COO.	-
AVCA10SE JAPAN	-	-



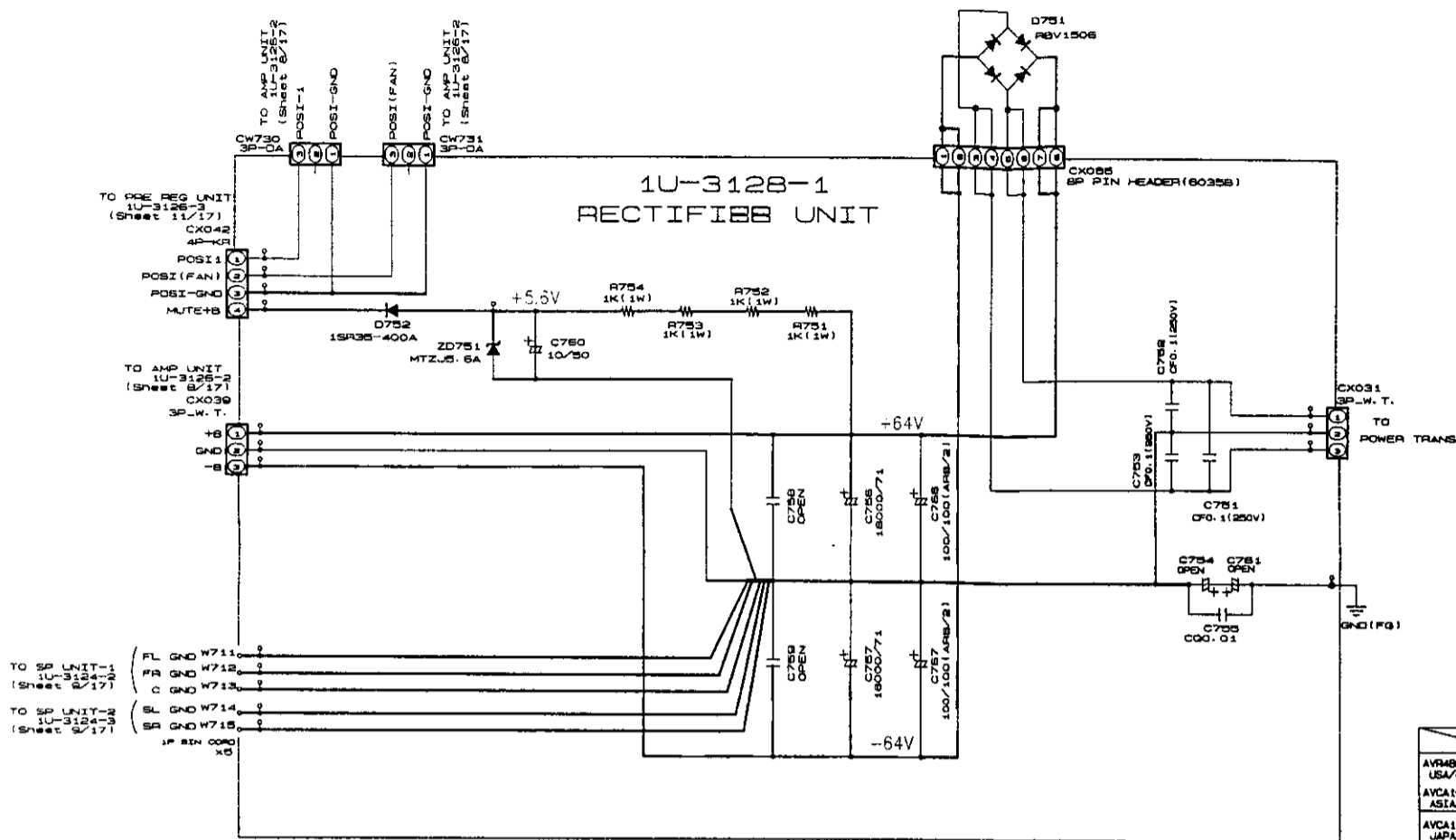
	C967 C968	C969	C972	C979	C980	C984
AVR4800 USA/CANADA			47/15 34G	-	1/30 34G	C00.01
AVCA105E TAIWAN P.O.C. JAPAN	C00.01	C00.01				
AVCA105E ASIA/EUROPE					220/20 ASF	0.015 (N41)

— +B LINE
 - - - -B LINE
 ——— SIGNAL LINE

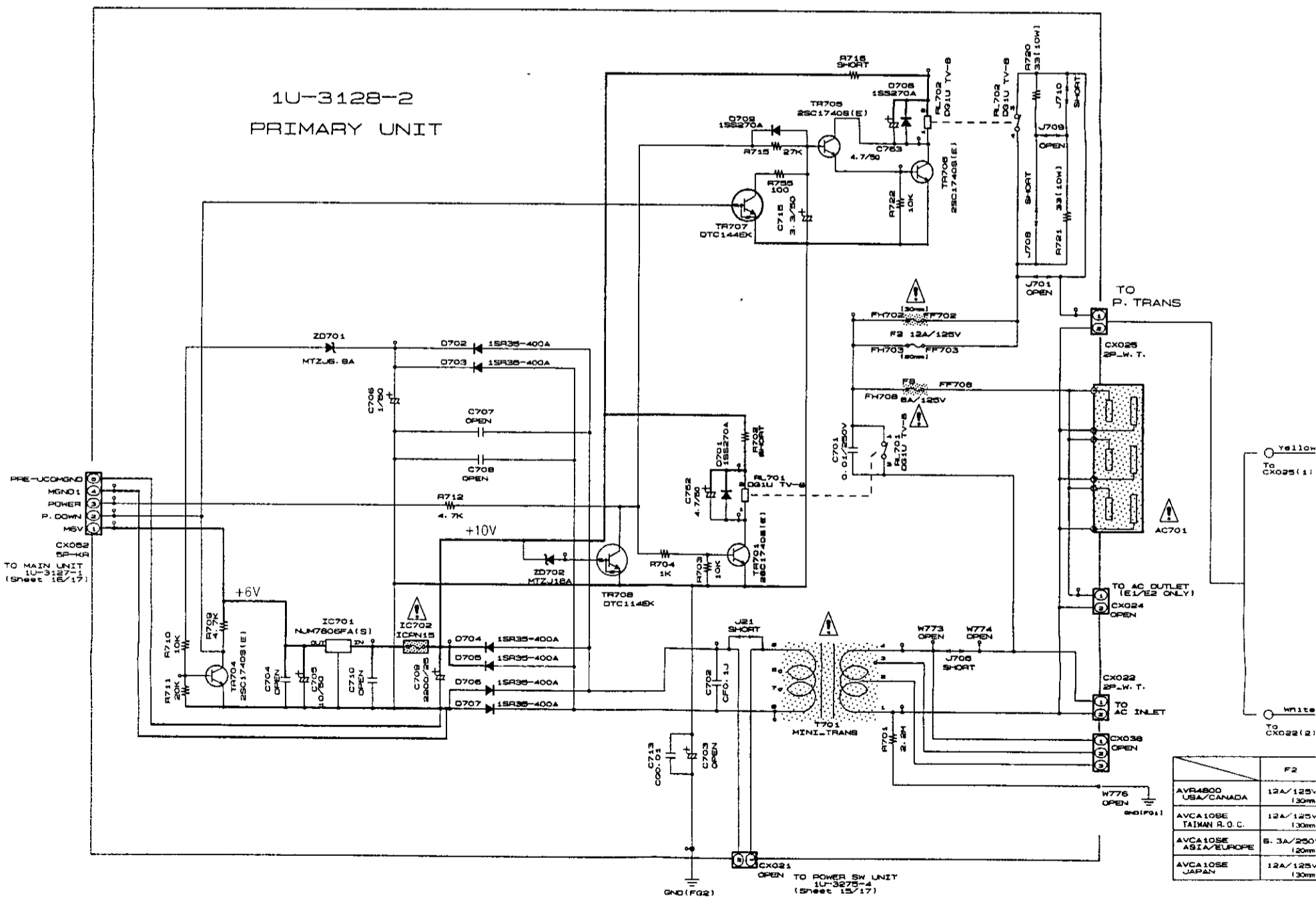
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 he manufacturer.
 e sure you make either (1) a
 resistance check. If the leakage
 nce from chassis to either side
 unit is defective.
 he problem is located and

SCHEMATIC DIAGRAMS (12/17)

1 2 3 4 5 6 7



	C702	C713	C751	C752 C753	C755
AVR4800 USA/CANADA	CFO. 1U	COO. 01	CFO. 1 (250V)	CFO. 1 (250V)	COO. 01
AVCA105E ASIA/EUROPE	0.015 (NH)	0.015 (NH)	-	0.015 (NH)	0.015 (NH)

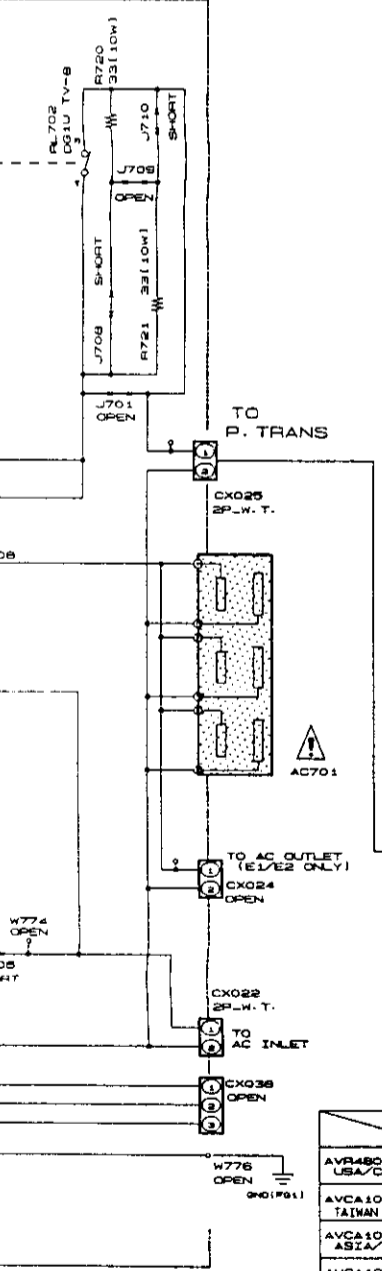
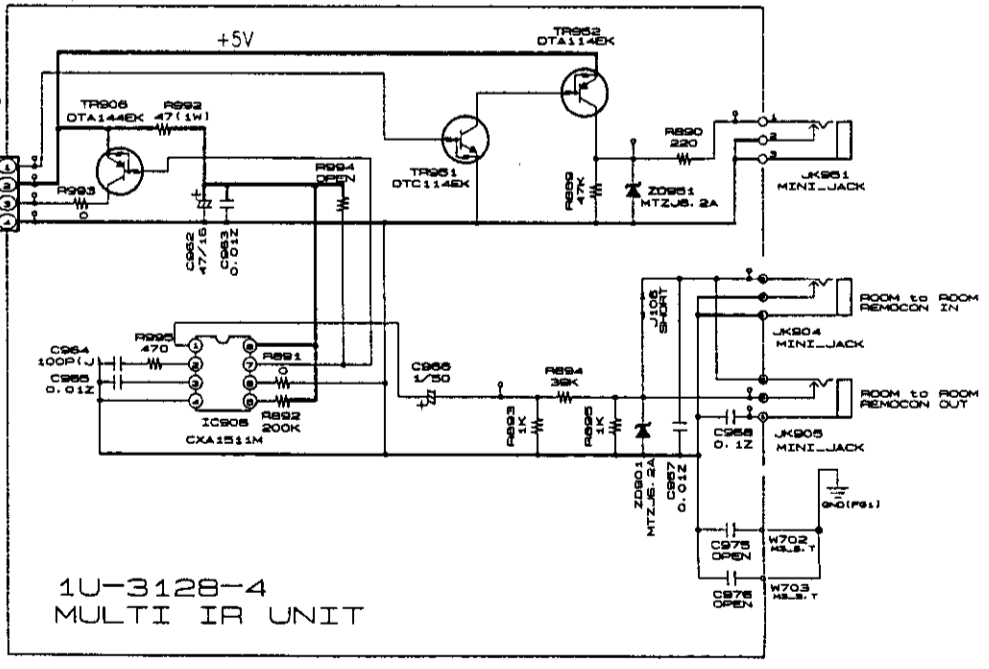
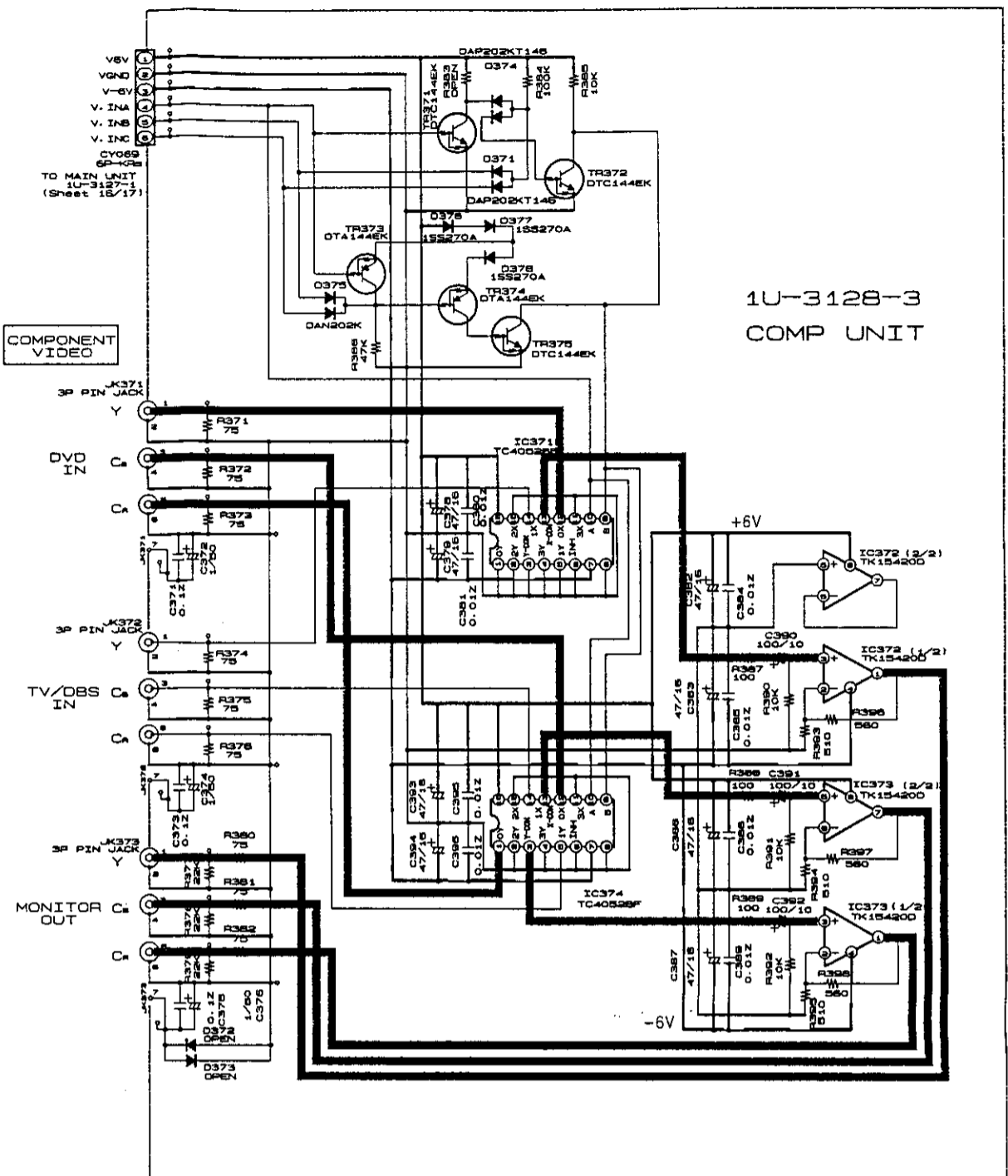


	F2
AVR4800 USA/CANADA	12A/125V 130mm
AVCA105E TAIWAN R.O.C.	12A/125V 130mm
AVCA105E ASIA/EUROPE	5.3A/250V 120mm
AVCA105E JAPAN	12A/125V 130mm

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6 7 8 9 10 11

	C702	C713	C751	C752 C753	C755
AVR4800 USA/CANADA	CFO. 1J	C00. 01	CFO. 1 (250V)	CFO. 1 (250V)	C00. 01
AVCA10SE ASIA/EUROPE					
AVCA10SE JAPAN	0. 015 (N+)	0. 015 (N+)	-	0. 015 (N+)	0. 015 (N+)



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of the power cord is less than 460 kohms, the unit is defective.

WARNING:
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corrected.

— +B LINE
- - - -B LINE
— SIGNAL LINE

SCHEMATIC DIAGRAMS (12/17)
1U-3128-1 RECTIFIER UNIT
1U-3128-2 PRIMARY UNIT
1U-3128-3 COMP UNIT / 1U-3128-4 MULTI IR UNIT

SCHEMATIC DIAGRAMS (13/17)

1 2 3 4 5 6

A

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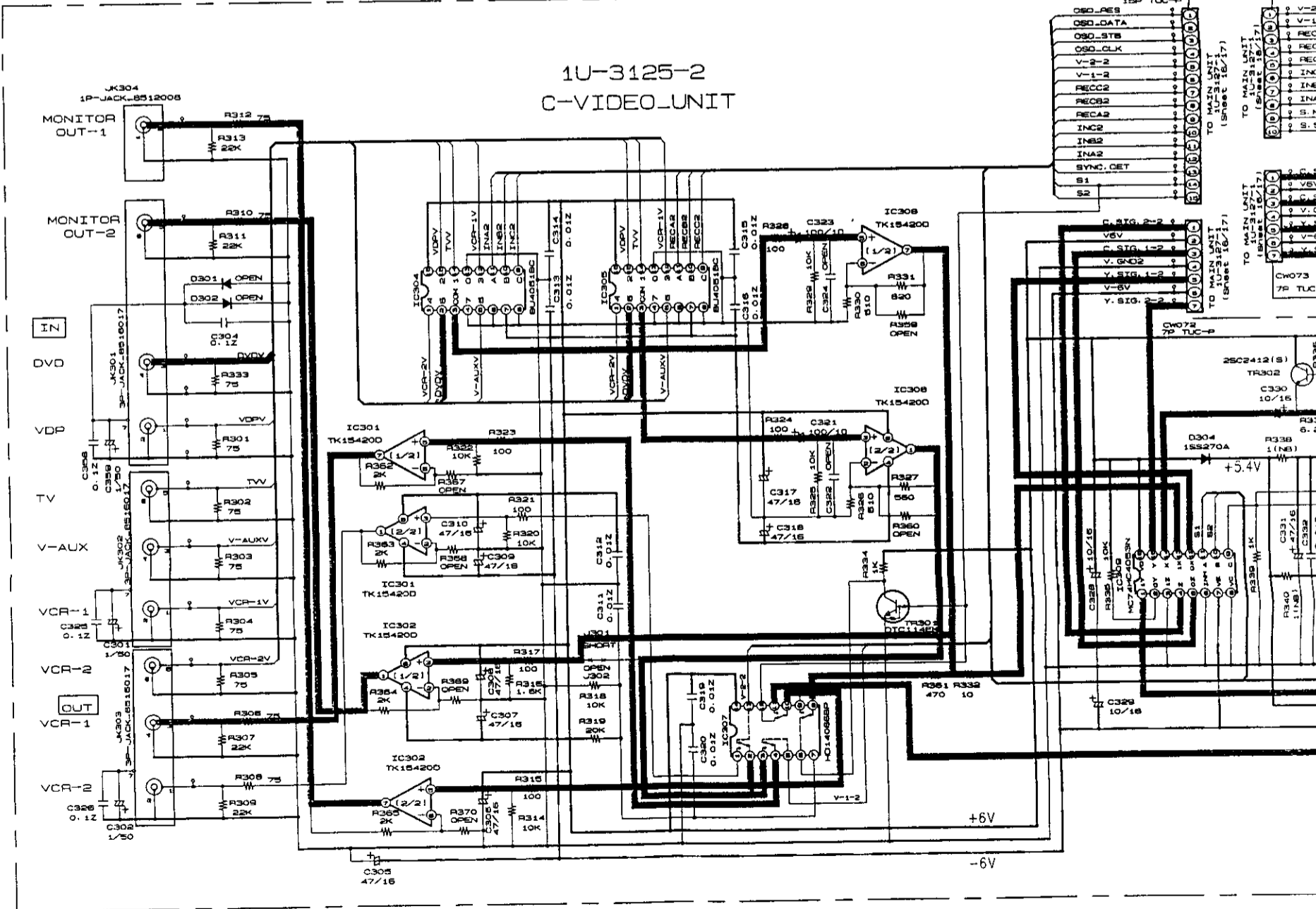
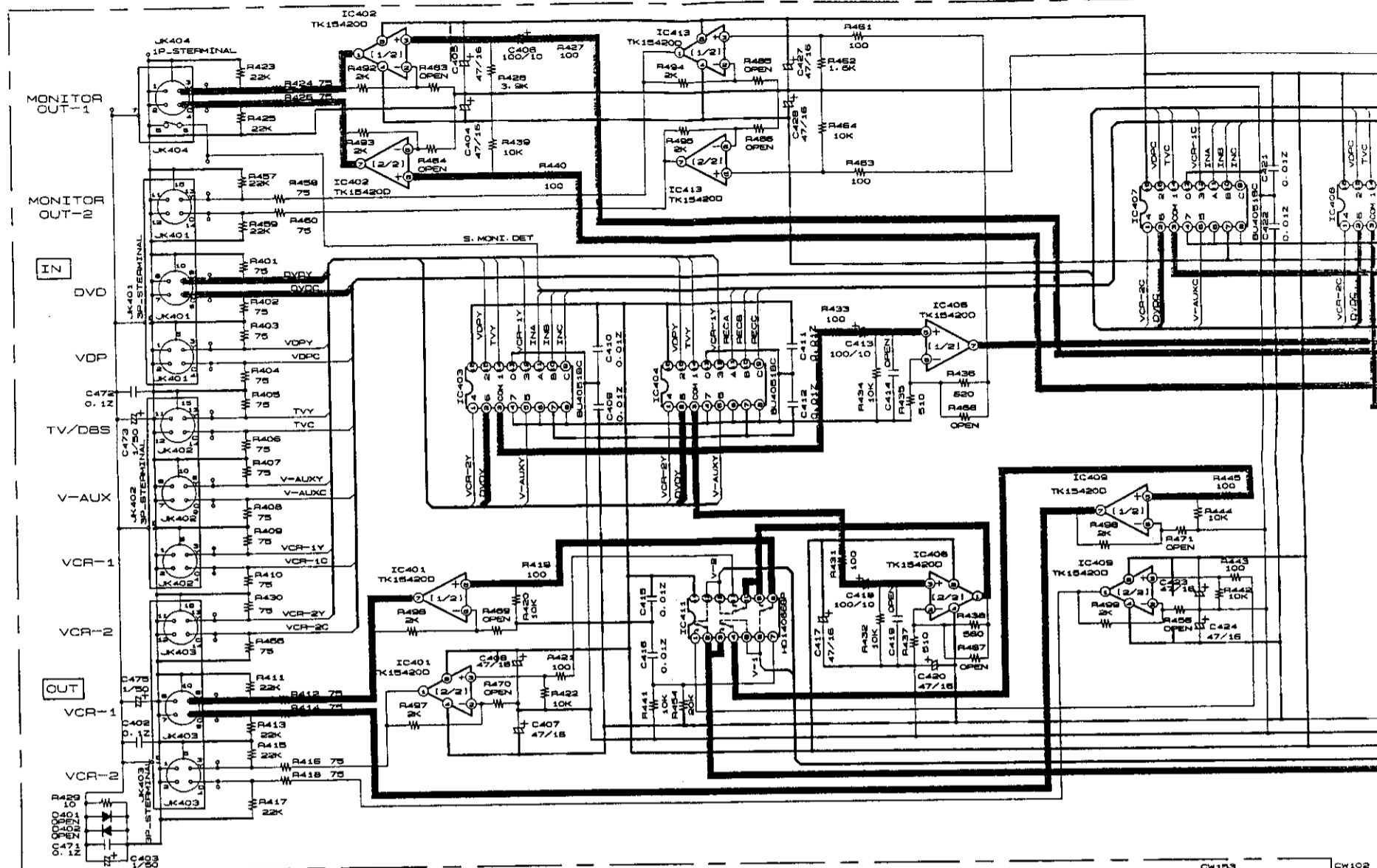
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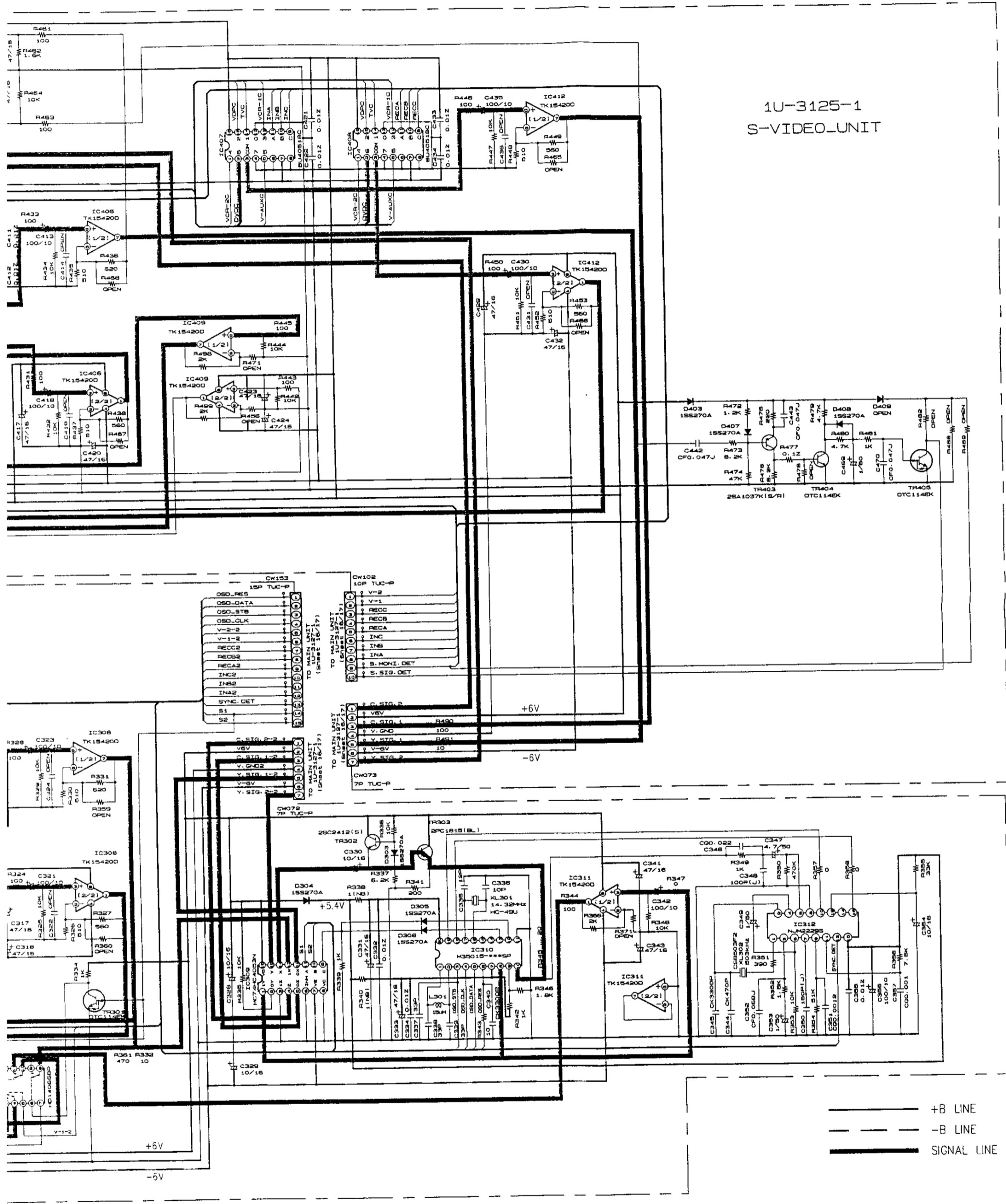
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 of the power card is less than 460 kohms, the unit is defective.

WARNING:
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 corrected.

1U-3125-1
S-VIDEO UNIT

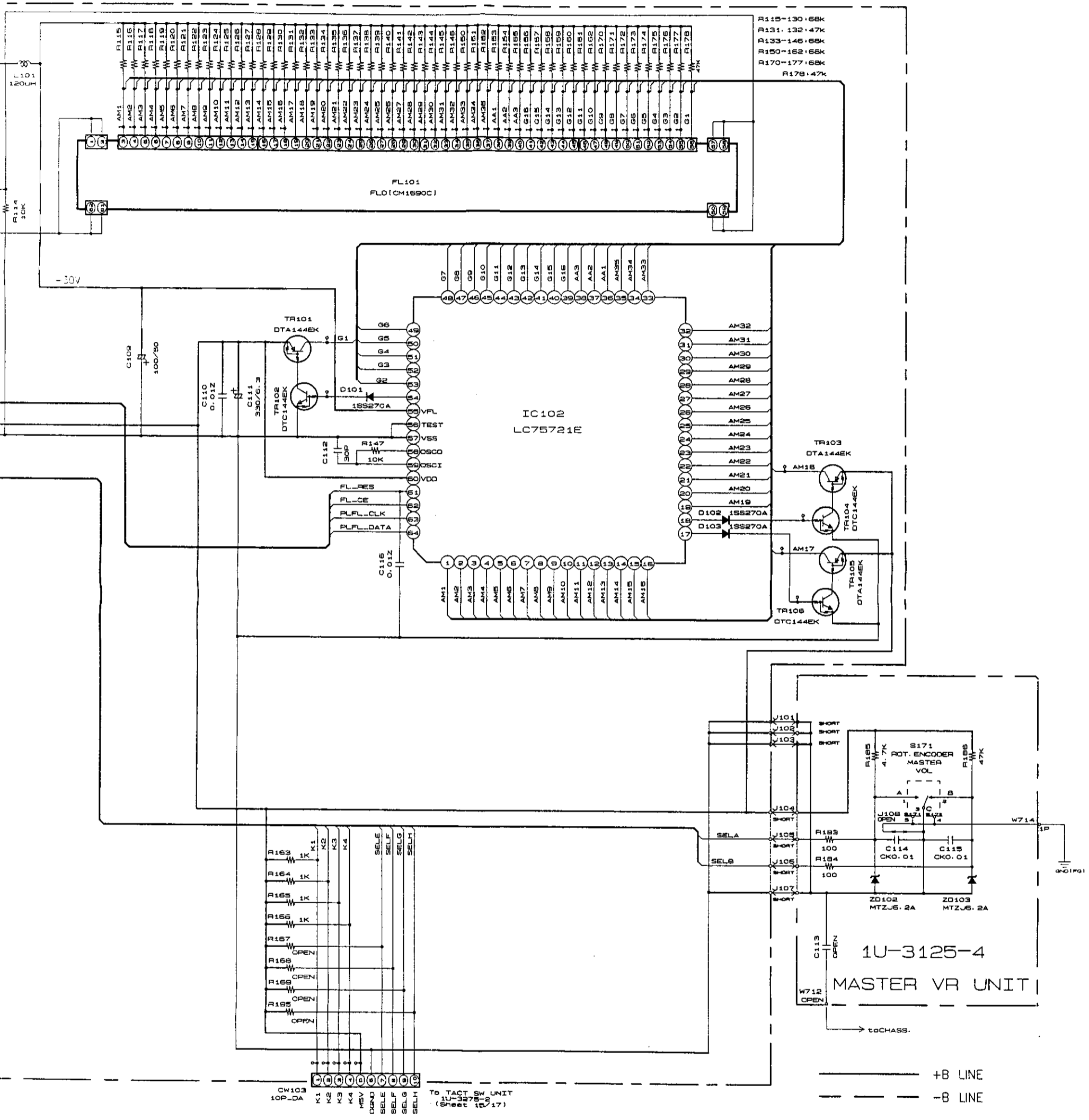


_____ +B LINE
 - - - - - -B LINE
 _____ SIGNAL LINE

have critical characteristics.
 send by the manufacturer.
 omer, make sure you make either (1) a
 o chassis resistance check. If the leakage
 he resistance from chassis to either side
 ohms, the unit is defective.
 mer until the problem is located and

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NOTICE
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SCHEMATIC DIAGRAMS (14/17)
 1U-3125-3 FLD UNIT
 1U-3125-4 MASTER VR UNIT

SCHEMATIC DIAGRAMS (15/17)

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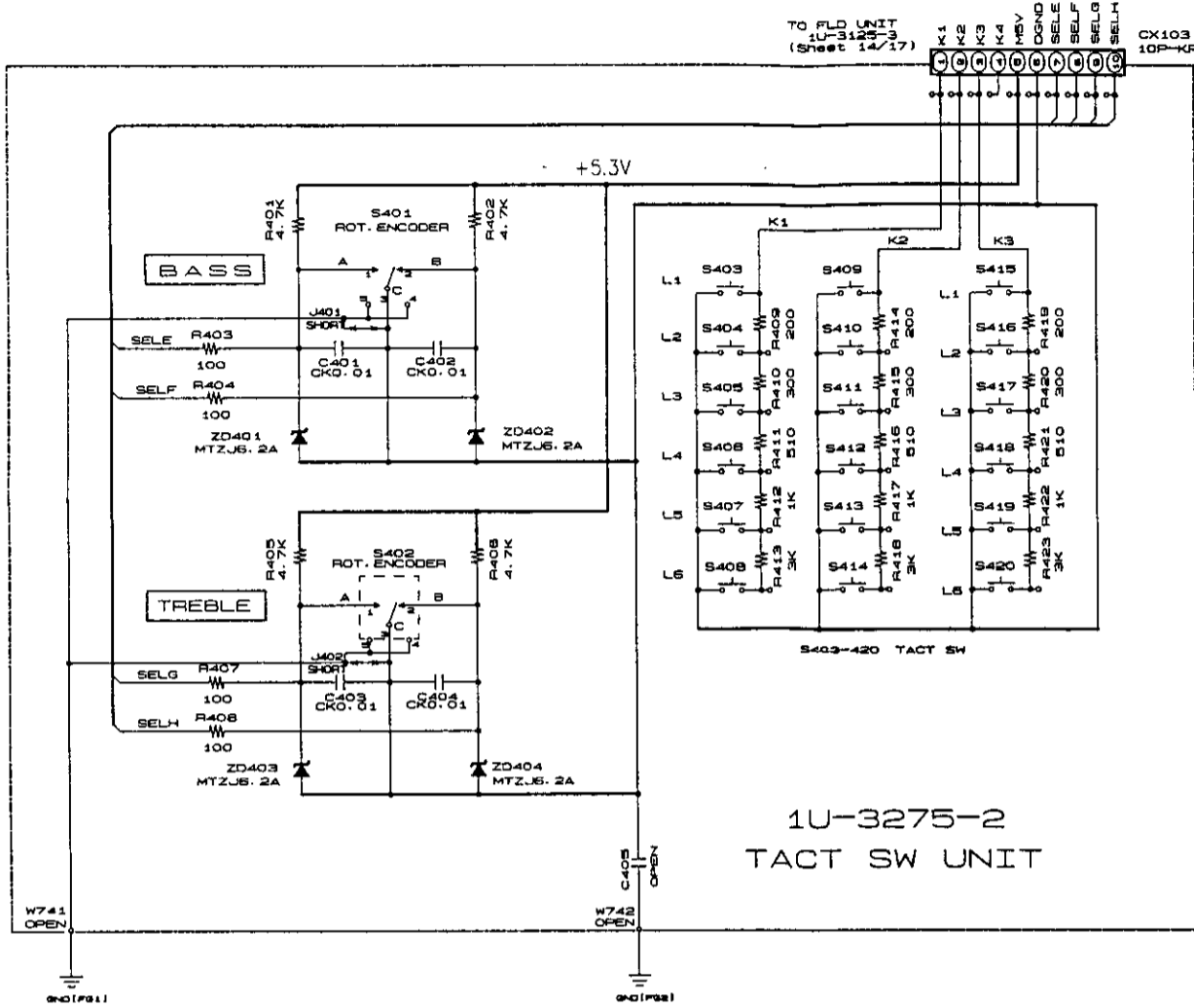
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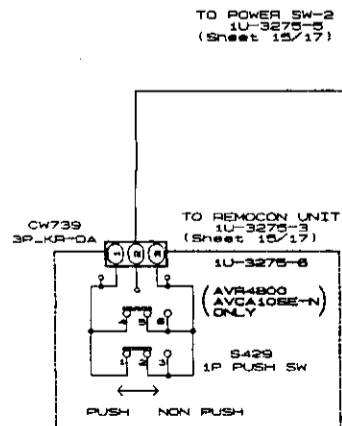
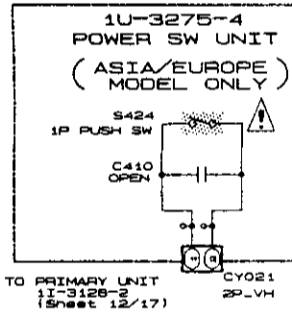
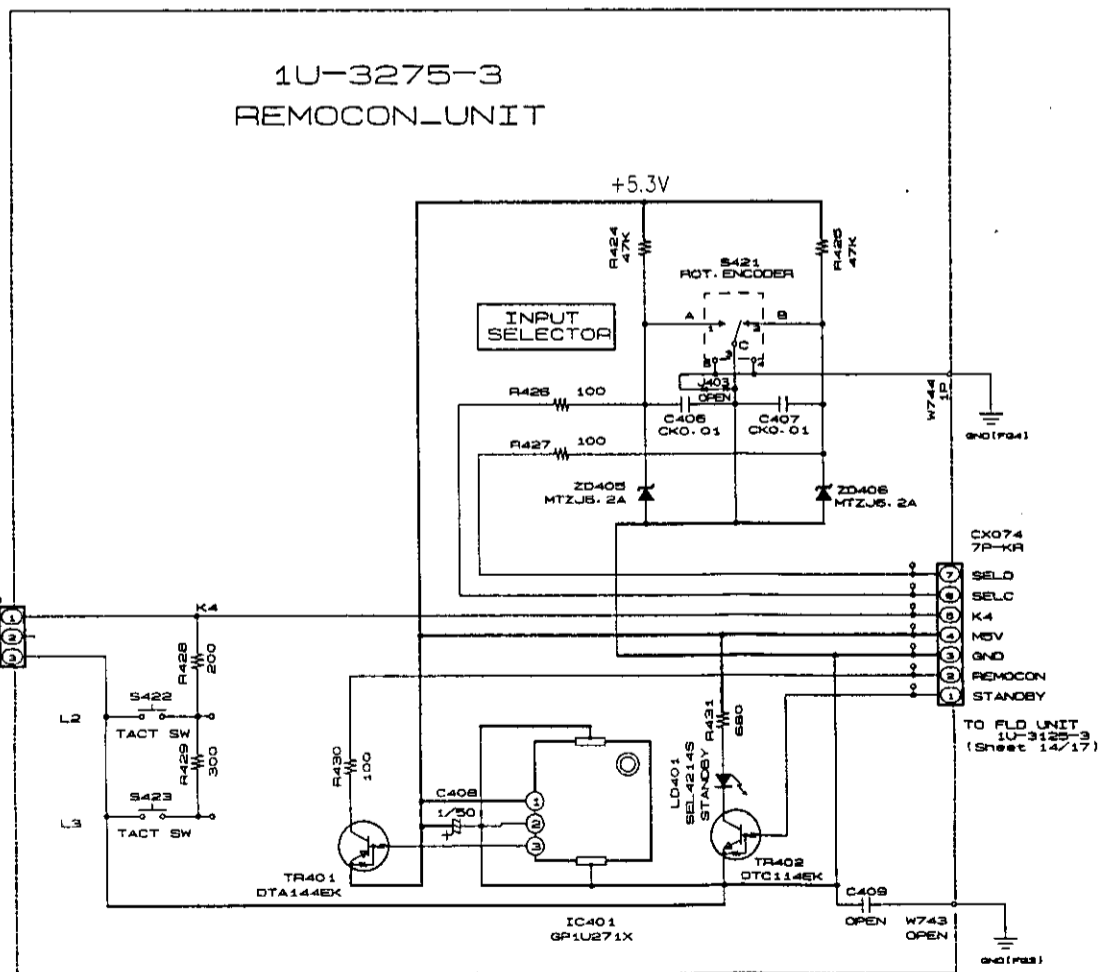
F

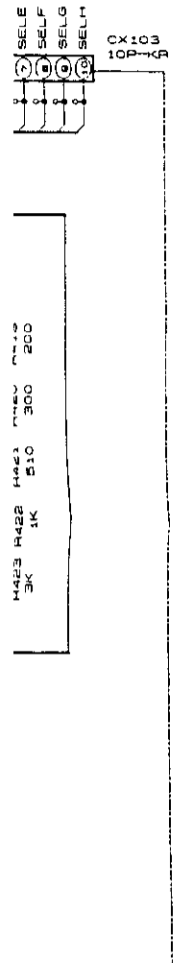
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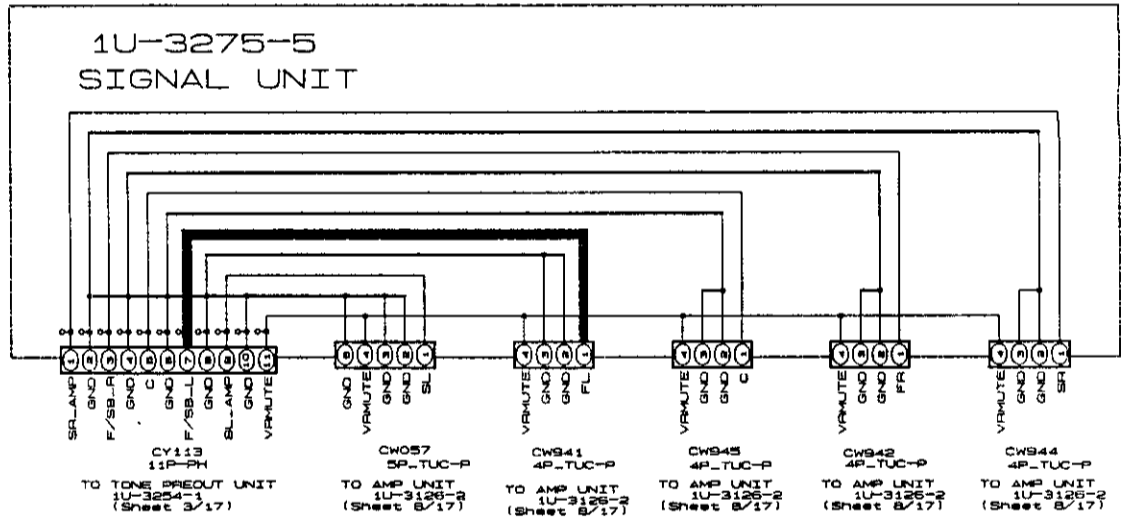
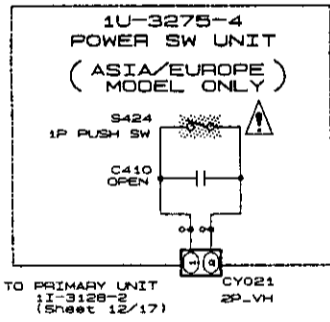
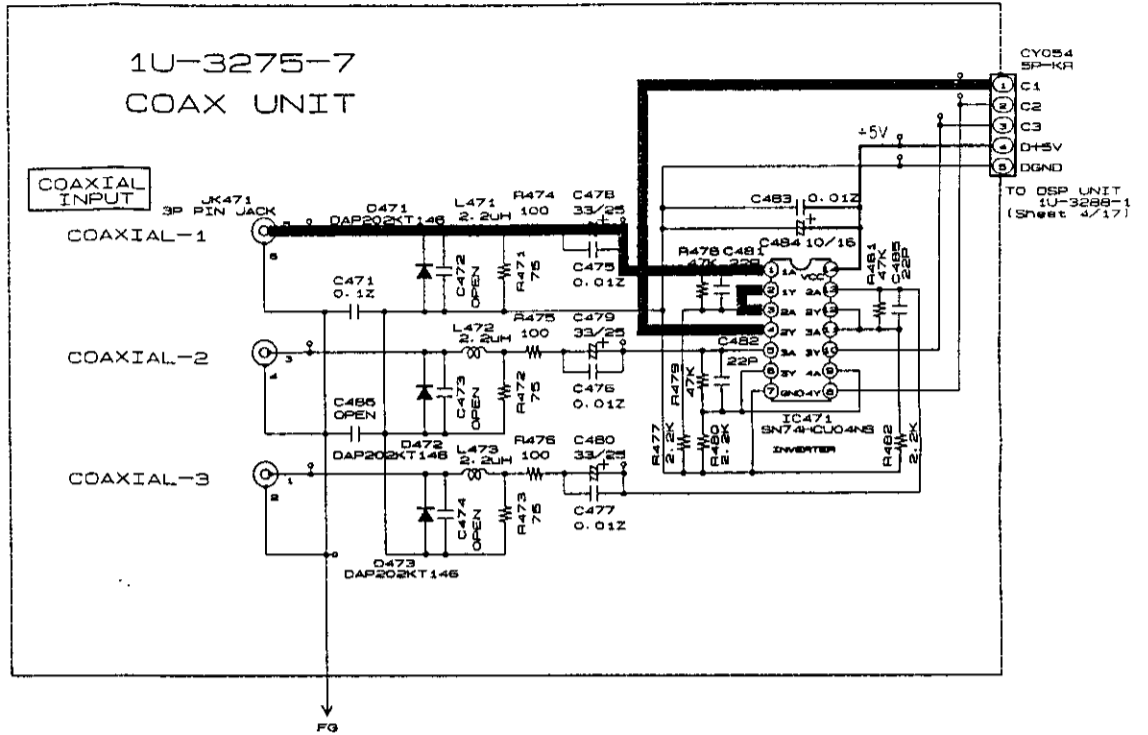


	K1	K2	K3
L1	SURROUND BACK	DIRECT	CH VO DOW
L2	INPUT MODE	STEREO	CH VO UP
L3	ANALOG	DOLBY/DTS SURROUND	REC/M SOUR
L4	60V/8CH EXT. IN	5CH STEREO	REC/M MOD
L5	VIDEO SELECT	DSP SIMULATION	DIMM
L6	TOE DEFEAT	SELECT	STA





	K1	K2	K3	K4
L1	SURROUND BACK	DIRECT	CH VOLUME DOWN	
L2	INPUT MODE	STEREO	CH VOLUME UP	HOME THX CINEMA
L3	ANALOG	DOLBY/DTS SURROUND	REC/MULTI SOURCE	TAPE-2 MONITOR
L4	5CH/5CH EXT. IN	5CH STEREO	REC/MULTI MODE	
L5	VIDEO SELECT	DSP SIMULATION	DIMMER	
L6	TOPE DEFEAT	SELECT	STATUS	



— +8 LINE
 — SIGNAL LINE

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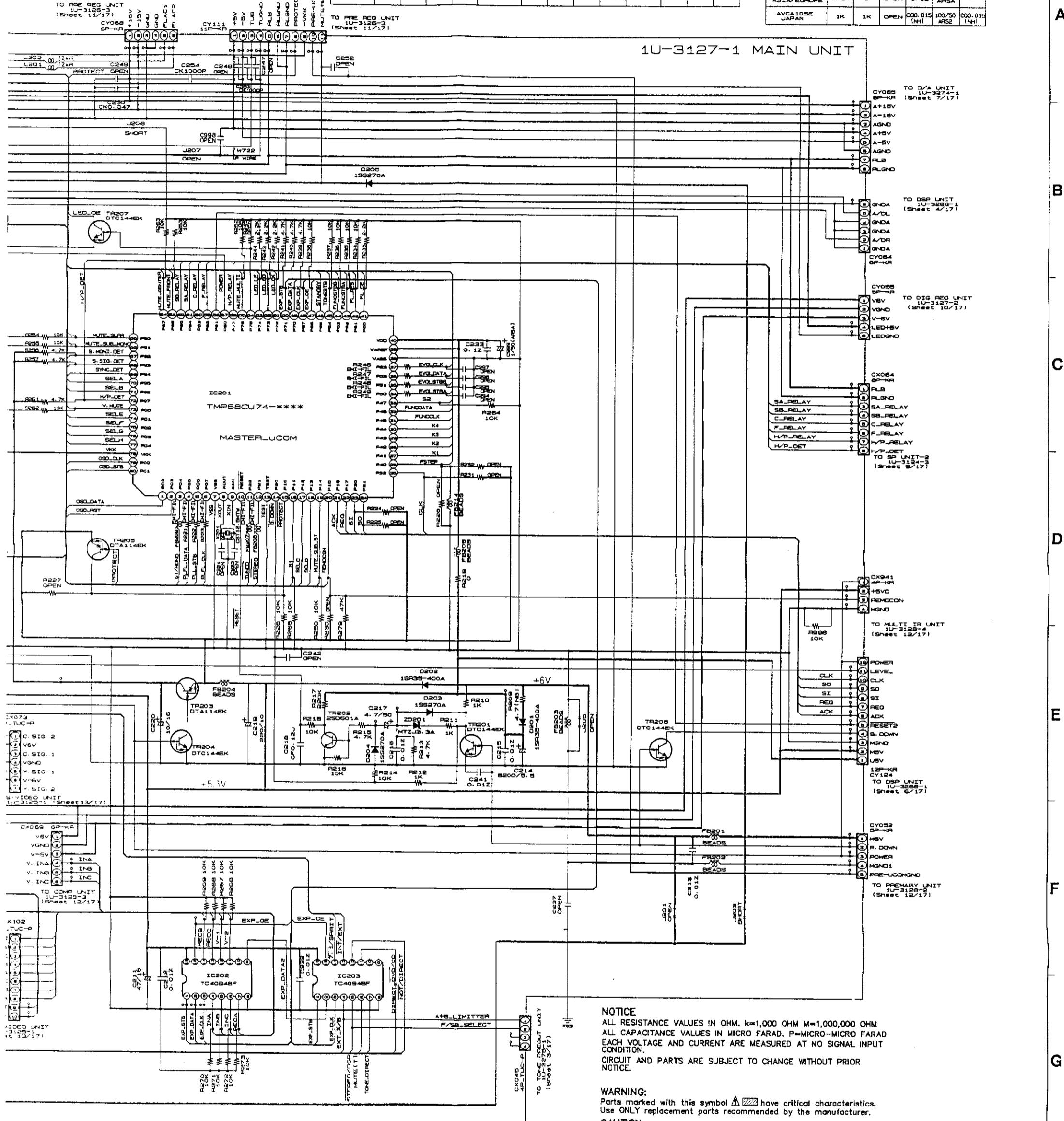
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6 7 8 9 10 11

IC291	00243	CX121	R248-247	C233	C234	C225	J207	W722-723
AVR4800	NM7812	10/30	248-249	0	0X0.1	100P	OPEN	1P-WIRE
AVCA10SE	-	-	EM1-FIL	-	-	-	SHORT	-

	R228	R232	FB205	C233	C998	C998
AVR4800	OPEN	OPEN	BEADS	0.1Z	1/50	ARSA
AVCA10SE	OPEN	0	OPEN	0.1Z	1/50	ARSA
AVCA10SE	1K	1K	OPEN	000.015	100/50	000.015
				(NH)	ARS2	(NH)

1U-3127-1 MAIN UNIT

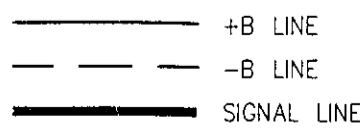


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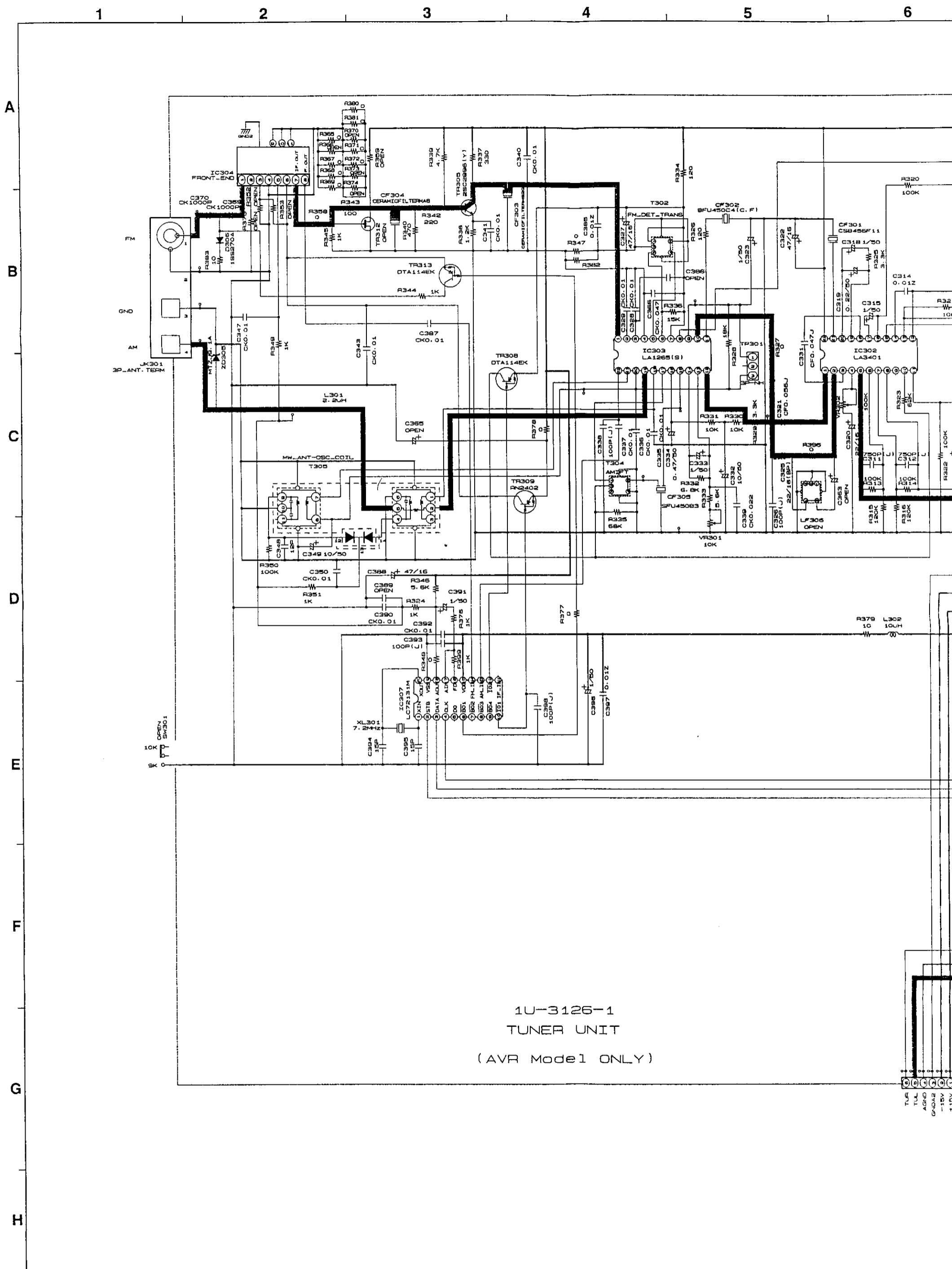
WARNING:
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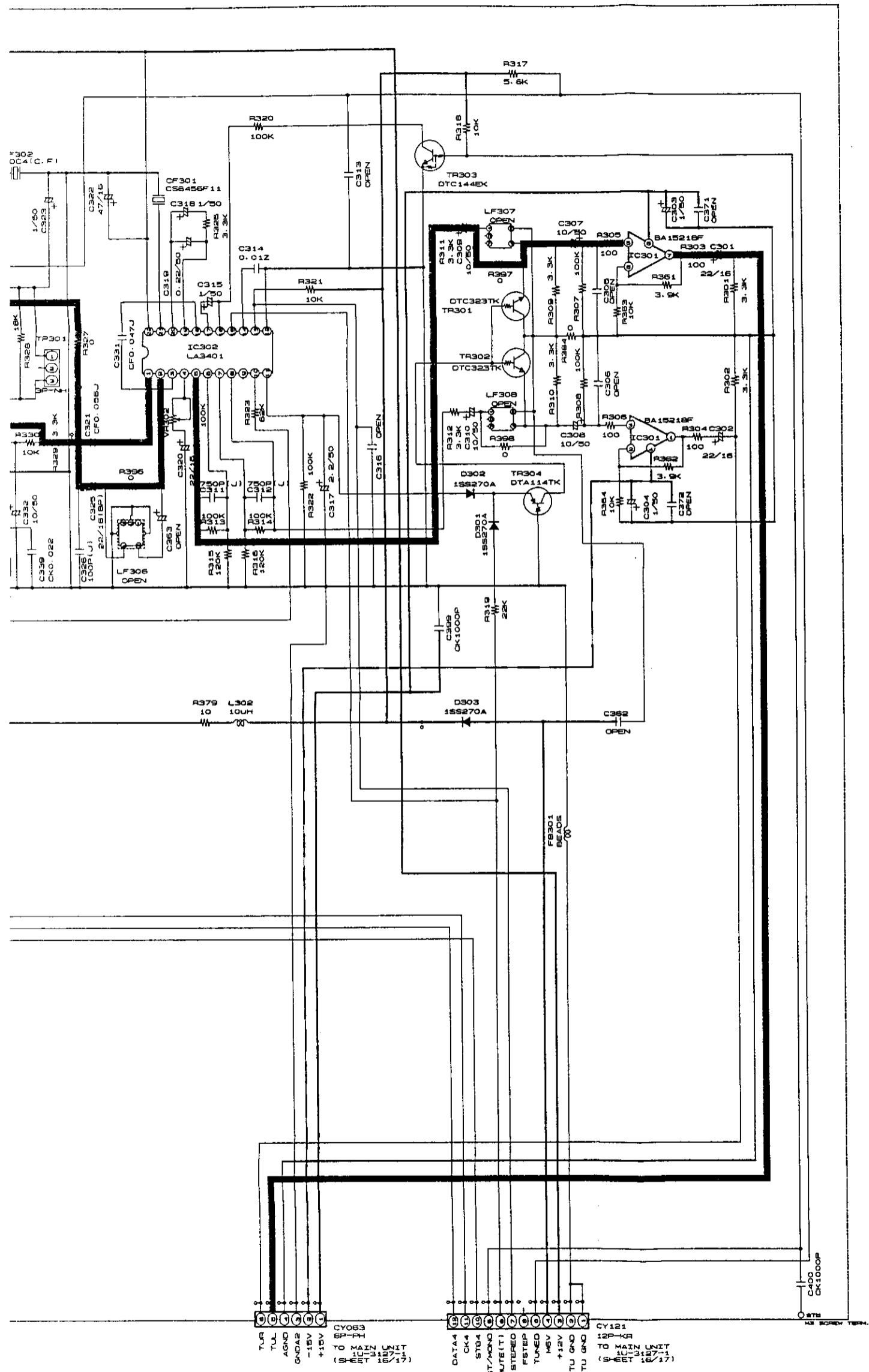
SCHEMATIC DIAGRAMS (16/17)
1U-3127-1 MAIN UNIT

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SCHEMATIC DIAGRAMS (17/17)



1U-3126-1
TUNER UNIT
(AVR Model ONLY)



NOTICE
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— +B LINE
 - - - -B LINE
 ——— SIGNAL LINE