

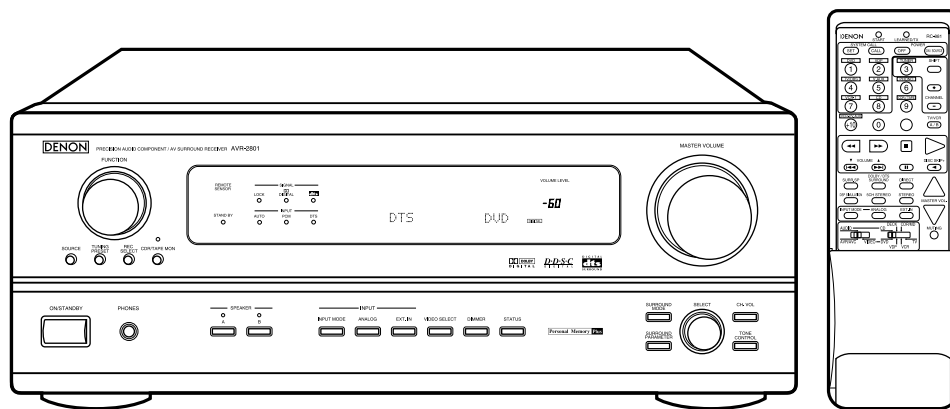
# DENON

Hi-Fi Component

## SERVICE MANUAL

# MODEL AVR-2801/981

### AV SURROUND RECEIVER



● 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)

Rated output:	Front: 90 W + 90 W 135 W + 135 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
	Center: 90 W 135 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
	Surround: 90 W + 90 W 135 W + 135 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Dynamic power:	120 W × 2 ch 170 W × 2 ch 200 W × 2 ch	(8 Ω/ohms) (4 Ω/ohms) (2 Ω/ohms)
Output terminals:	Front: A or B A + B	6 ~ 16 Ω/ohms 8 ~ 16 Ω/ohms
	Surround/Center:	6 ~ 16 Ω/ohms

#### (Analog)

Input sensitivity/input impedance:	200 mV/47 kΩ/kohms
Frequency response:	10 Hz ~ 100 kHz: +0, -3 dB (DIRECT mode)
S/N:	102 dB (DIRECT mode)
Distortion:	0.008 % (20 Hz ~ 20 kHz) (DIRECT mode)
Rated output:	1.2 V

#### (Digital)

D/A output:	Rated output - 2 V (at 0 dB playback) Total harmonic distortion - 0.008% (1 kHz, at 0 dB) S/N ratio - 102 dB Dynamic range - 96 dB Format - Digital audio interface
Digital input:	

#### (Phono equalizer (PHONO input-REC OUT))

Input sensitivity:	2.5 mV
RIAA deviation:	±1 dB (20 Hz to 20 kHz)
Signal-to-noise ratio:	74 dB (A weighting, with 5 mV input)
Rated output/Maximum output:	150 mV/7 V
Distortion factor:	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, 75Ω/ohms C (color) signal - 0.286 Vp-p, 75Ω/ohms
Frequency response:	5 Hz ~ 10 MHz - +0, -3 dB

### TUNER SECTION

Receiving range:	<b>[FM]</b> (Note: μV at 75 Ω/ohms, 0 dBf = $1 \times 10^{-15}$ W) 87.50 MHz ~ 107.90 MHz (for North America model) 87.50 MHz ~ 108.00 MHz (for Europe, China, Hong Kong, Taiwan R.O.C. and Multiple voltage models)	<b>[AM]</b> 520 kHz ~ 1710 kHz (for North America model) 522 kHz ~ 1611 kHz (for Europe, China, Hong Kong, Taiwan R.O.C. and Multiple voltage models)
Usable sensitivity:	1.0 μV (11.2 dBf)	18 μV
50 dB quieting sensitivity:	MONO 1.6 μV (15.3 dBf) STEREO 23 μV (38.5 dBf)	
S/N ratio:	MONO 80 dB STEREO 75 dB	
Total harmonic distortion:	MONO 0.15 % STEREO 0.3 %	

### GENERAL

Power supply:	AC120 V, 60 Hz (for North America and Taiwan R.O.C. models) AC230 V, 50 Hz (Europe model) AC220 V, 50 Hz (for China model) AC115/230 V, 50/60 Hz (for Hong Kong and Multiple voltage)
Power consumption:	5.0 A (for North America model) 270 W (for Europe, China, Hong Kong, Taiwan R.O.C. and Multiple voltage models)
Maximum external dimensions:	434 (W) × 171 (H) × 416 (D) mm (17-3/32" × 6-11/32" × 16-3/8")
Weight:	11.5 kg (25 lbs. 6 oz.)

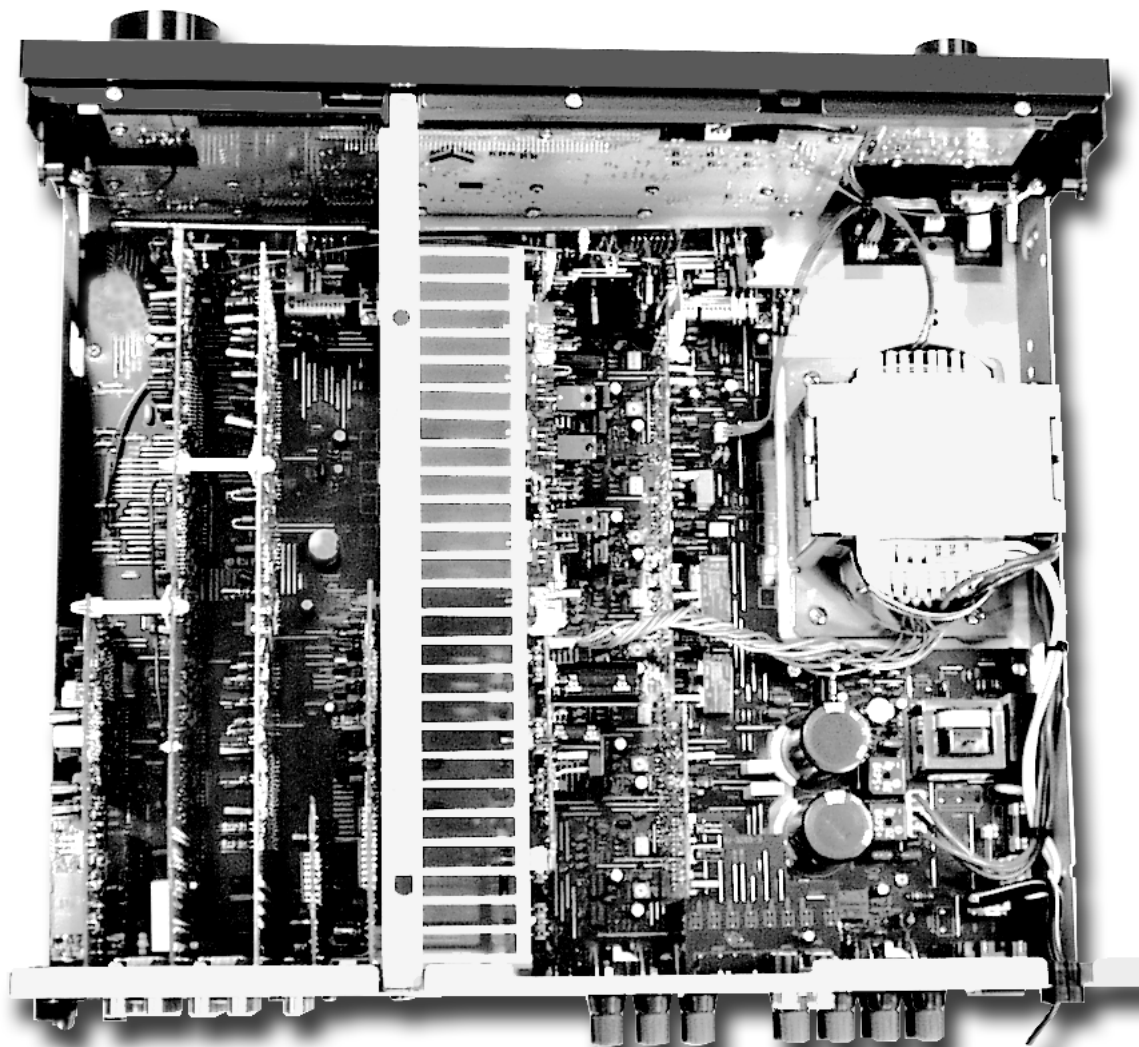
### REMOTE CONTROL UNIT (RC-881: for North America, China, Hong Kong, Taiwan R.O.C. and Multiple voltage models) (RC-882: for Europe model)

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

## 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

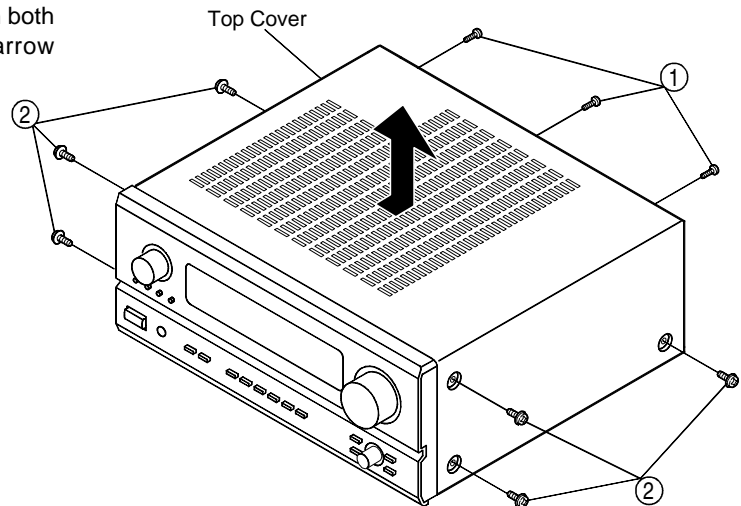


## DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

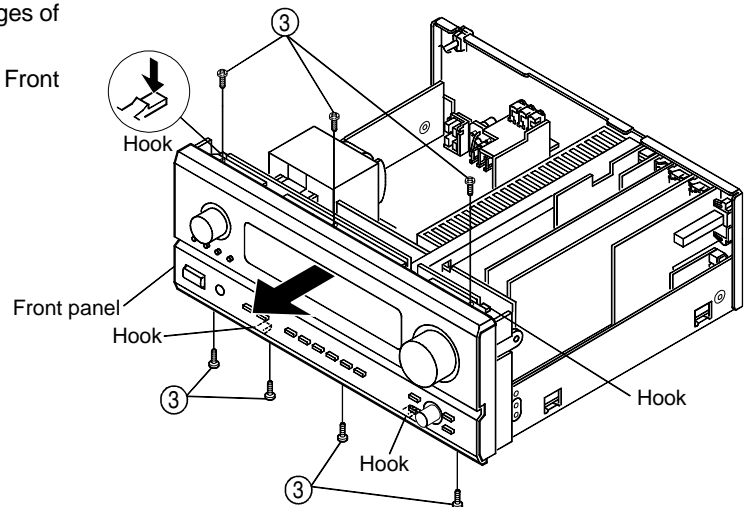
### 1. Top Cover

Remove 3 screws ① on the rear and 6 screws ② on both sides to detach the Top Cover as shown in the arrow direction.



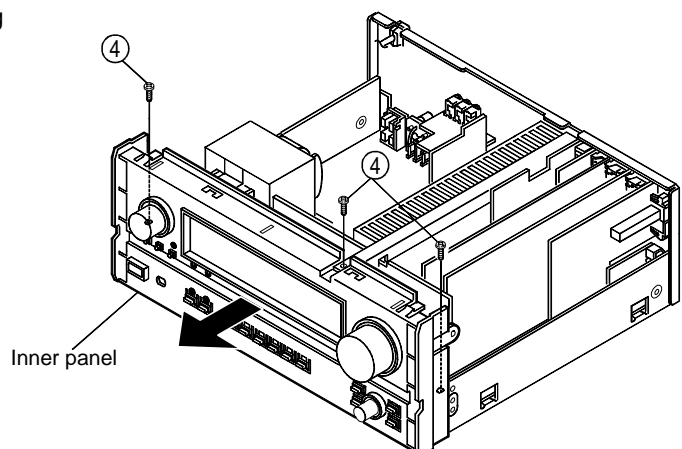
### 2. Front Panel

- (1) Remove 7 screws ③ from the top and bottom edges of the Front Panel.
- (2) Release 4 top and bottom hooks, then detach the Front Panel as shown in the arrow direction.



### 3. Inner Panel

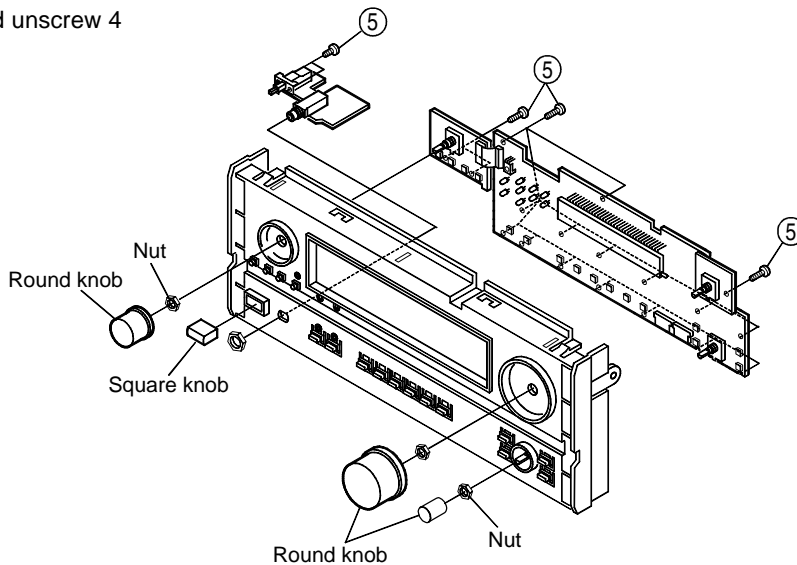
Pull out the Inner Panel in the arrow direction after removing 3 screws ④.





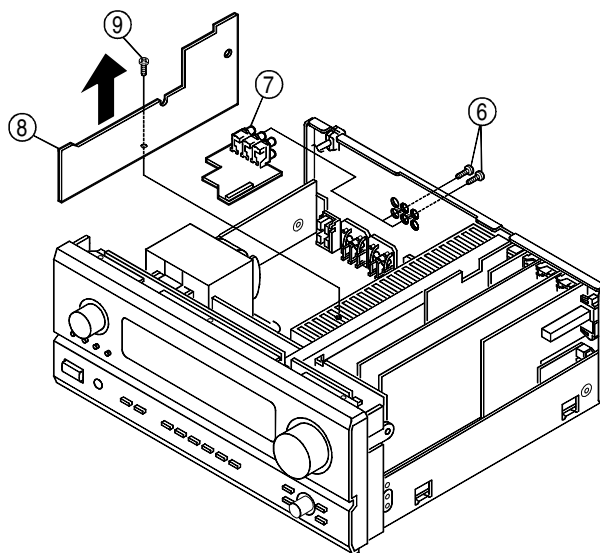
### 4. Inner Panel Ass'y

- (1) Remove 3 round and 1 square knobs, and unscrew 4 nuts.
- (2) Remove 19 screws (5) fixing each P.W.B.



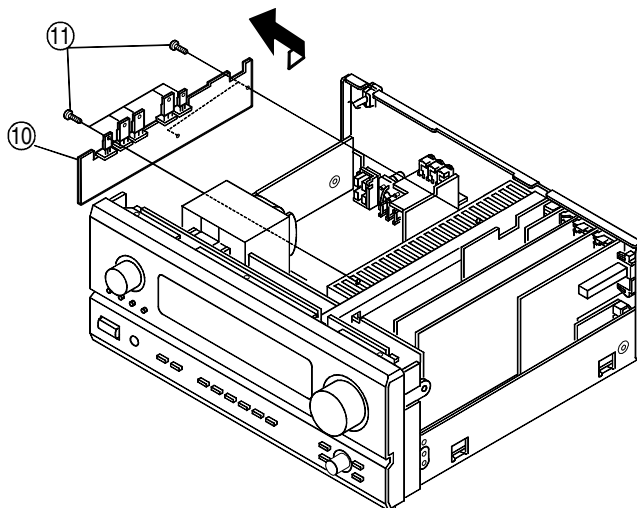
### 5. Amp Unit

- (1) Remove 2 screw (6) to detach Pre-out Unit (7).
- (2) Take off the Amp Unit (8) as shown in the arrow direction after removing 1 screw (9).



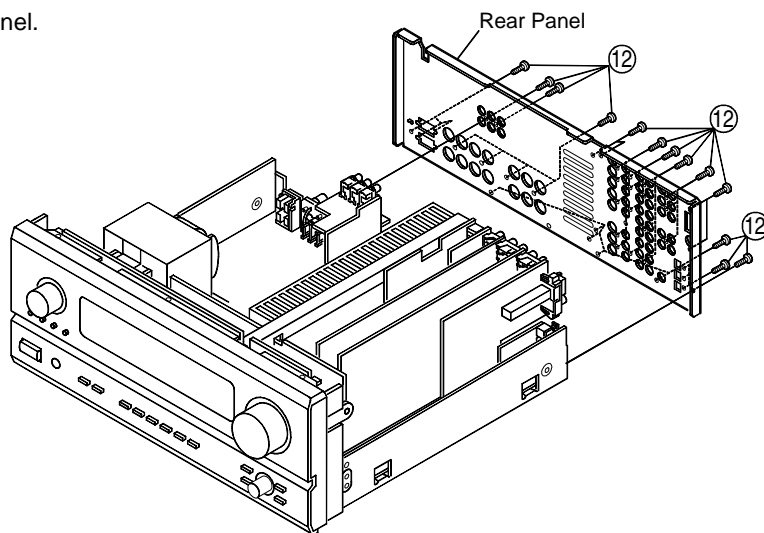
### 6. Regulator Unit

- Take off the Regulator Unit (10) as shown in the arrow direction after removing 8 screws (11).



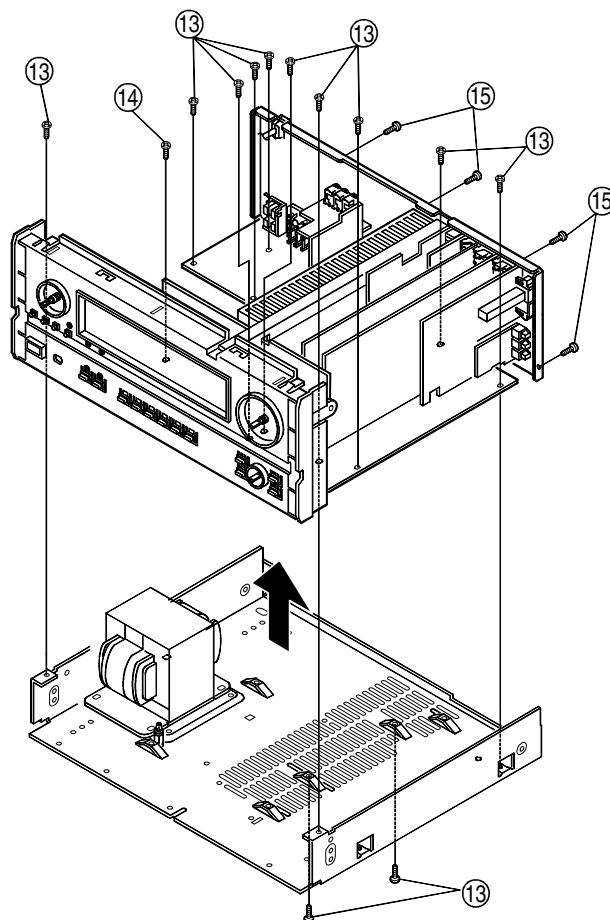
### 7. S-Video / C-video / Audio-in & DSP / Ext-in & VR / Digital-in / Tuner Unit

- (1) Remove 38 screws (12) to detach the Rear Panel.
- (2) Take off the objective P.W.B. upward.

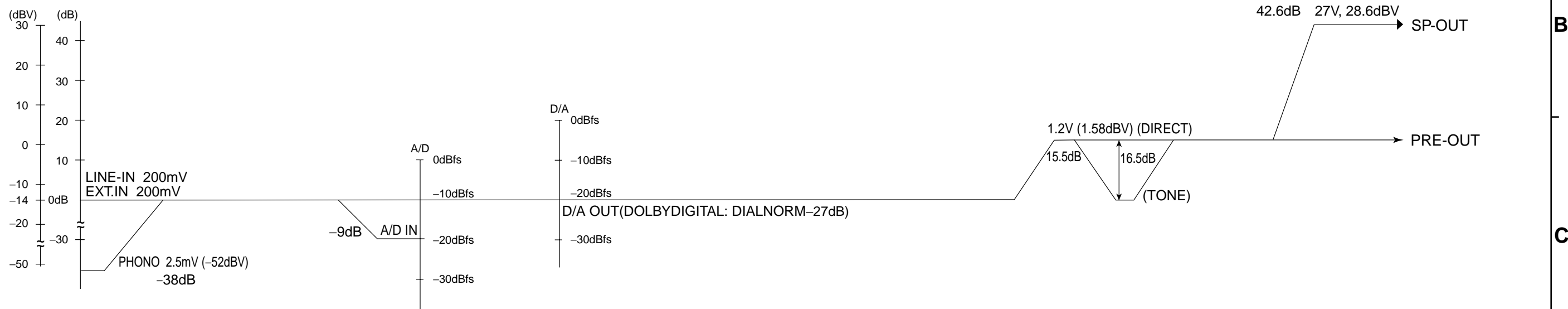
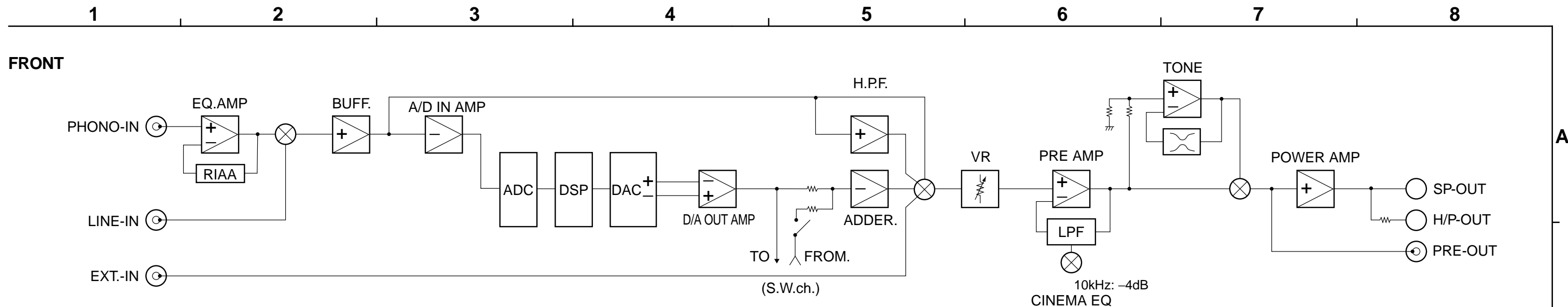


### 8. How to Check Power Amp / $\mu$ -com Unit with Power-on

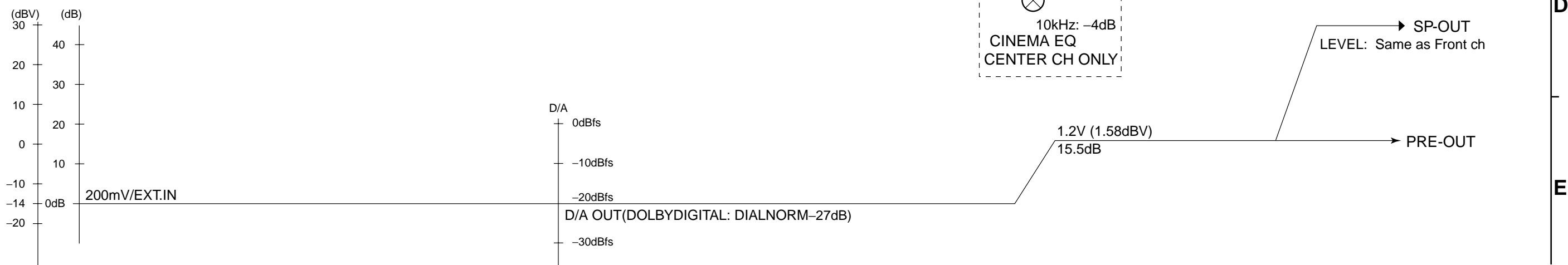
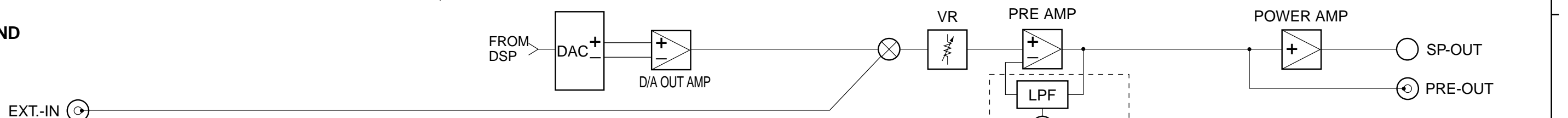
- (1) Remove 12 screws (13), 1 screw (14), and 4 screws (15) fixing to the Chassis.
- (2) Pull up the Unit to separate from the Chassis.



LEVEL DIAGRAM



CENTER SURROUND



1 2 3 4 5 6 7 8

SUBWOOFER

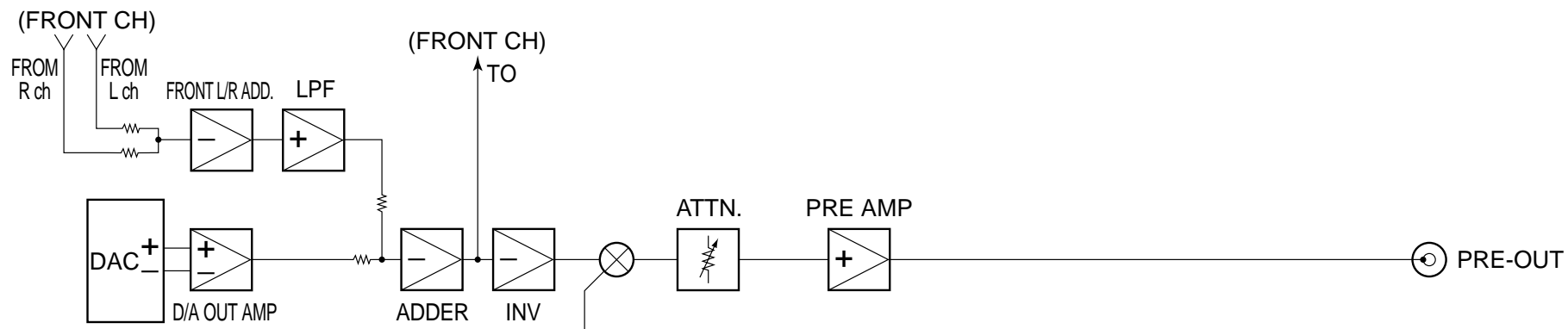
A

B

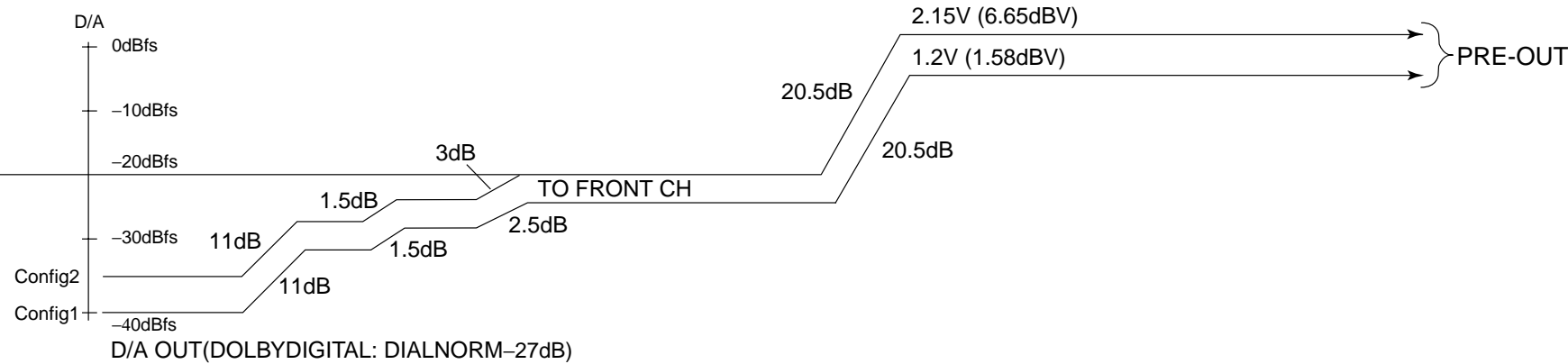
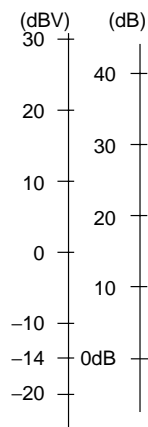
C

D

E

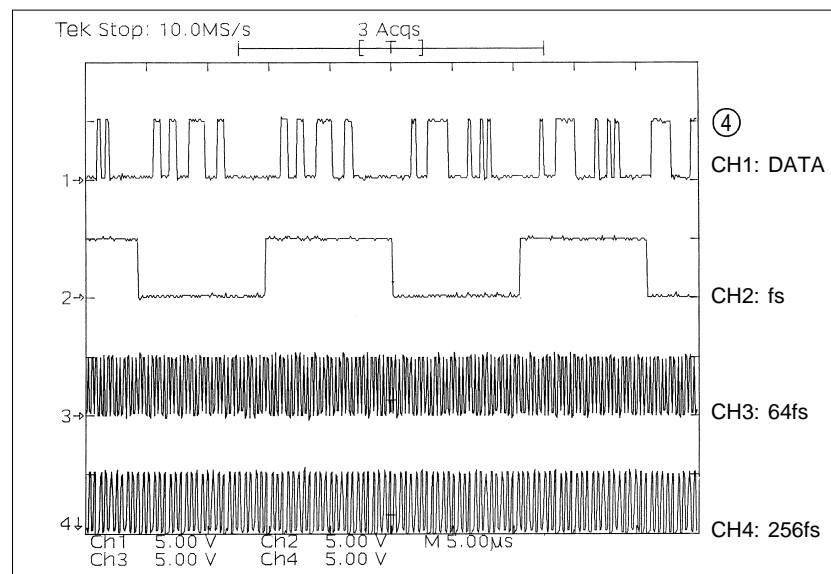
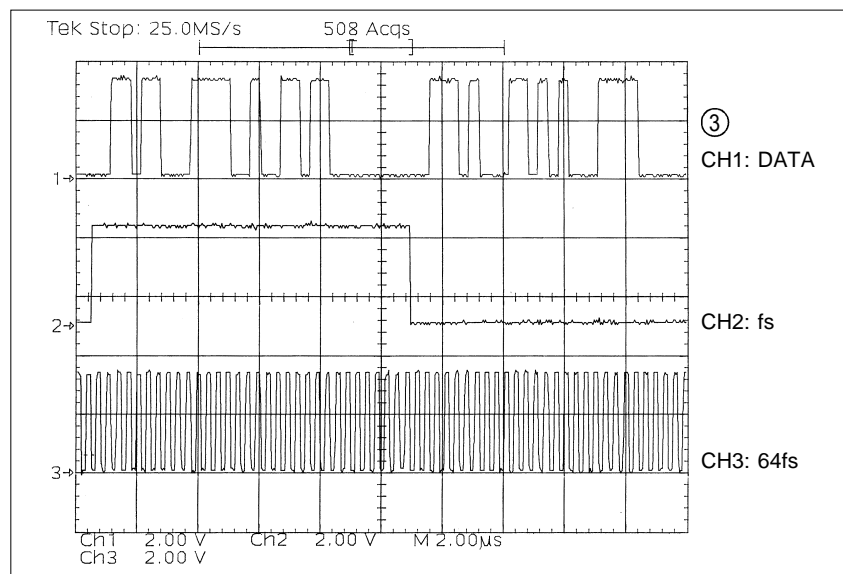
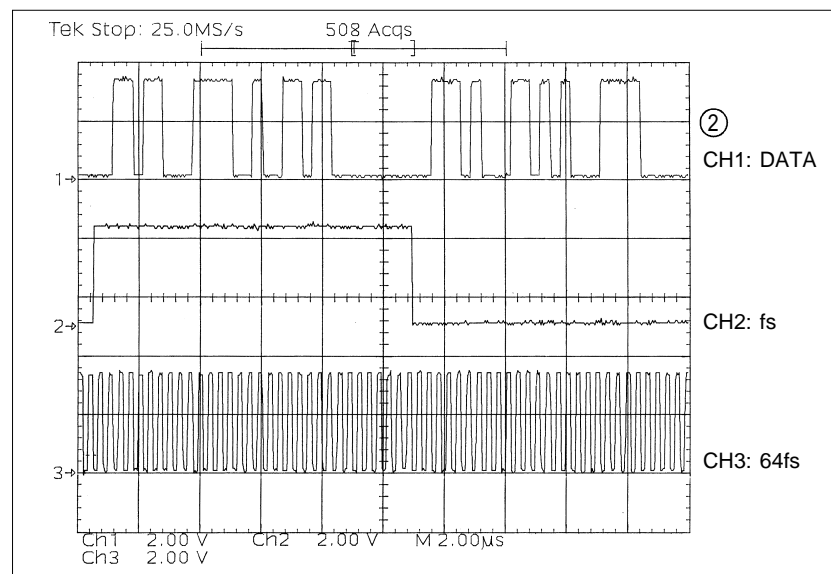
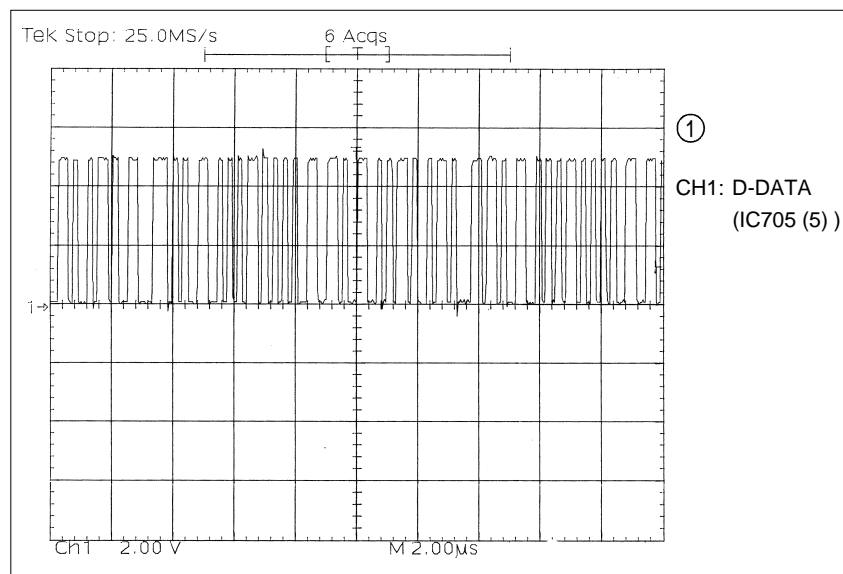


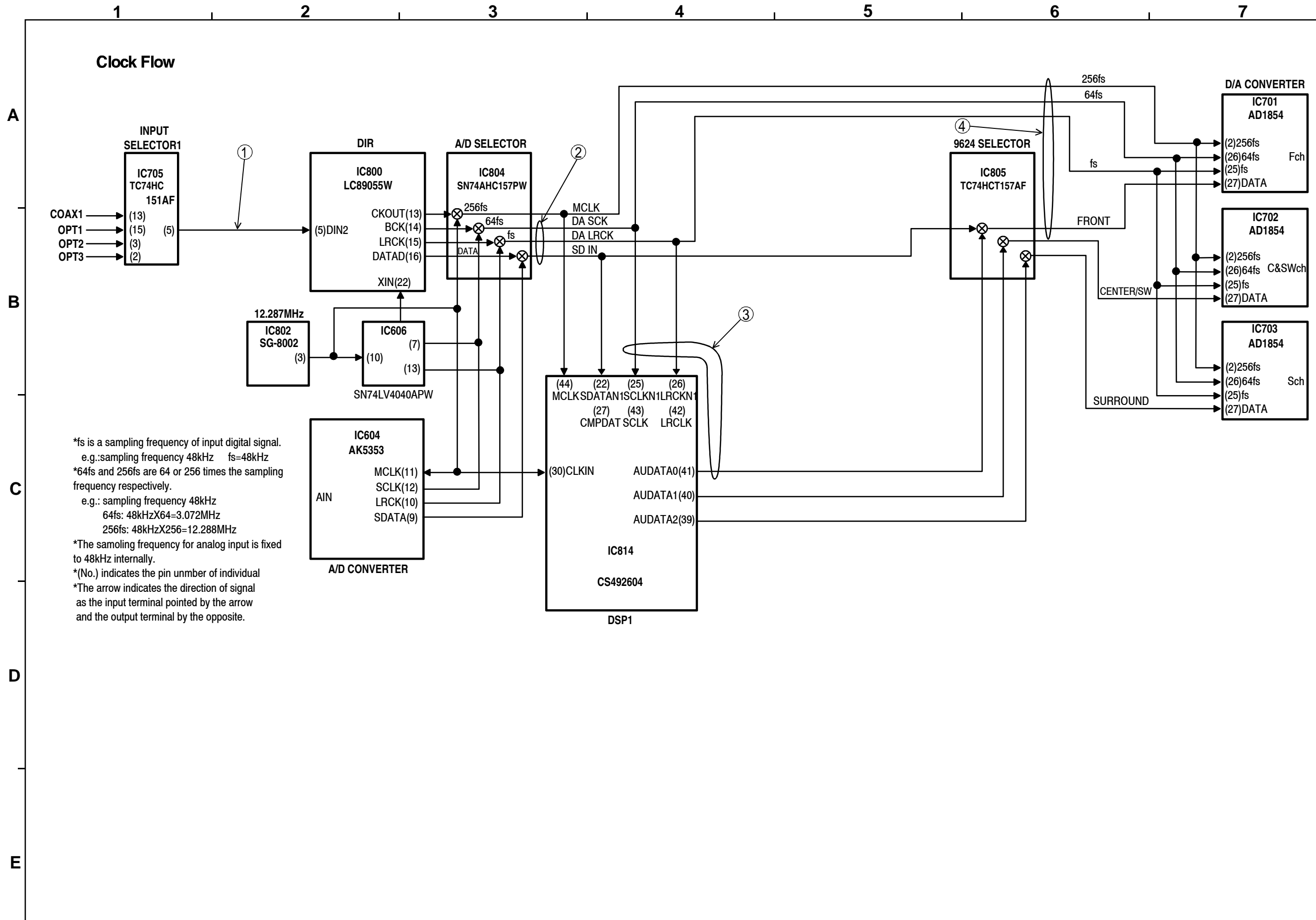
EXT.-IN



# CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

## Wave Form



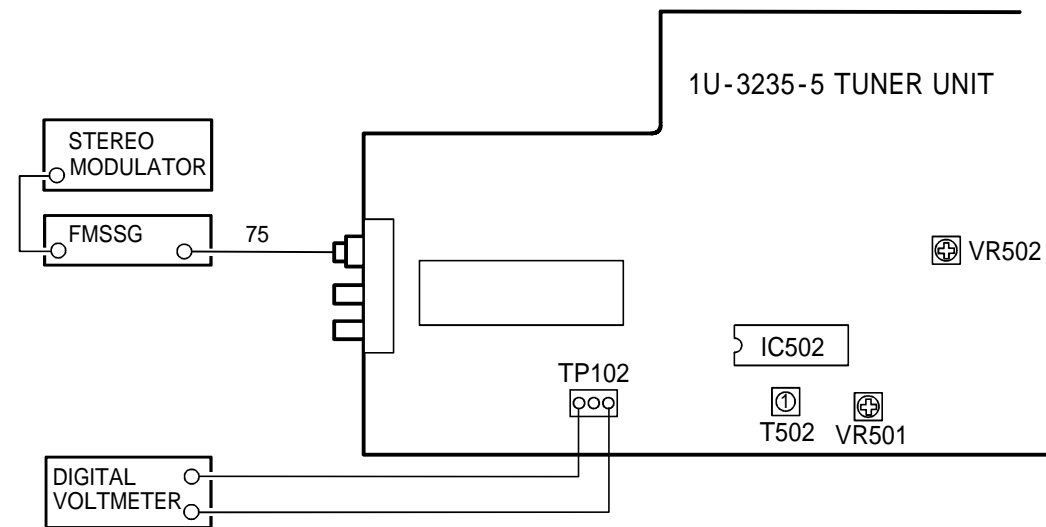


# ADJUSTMENT

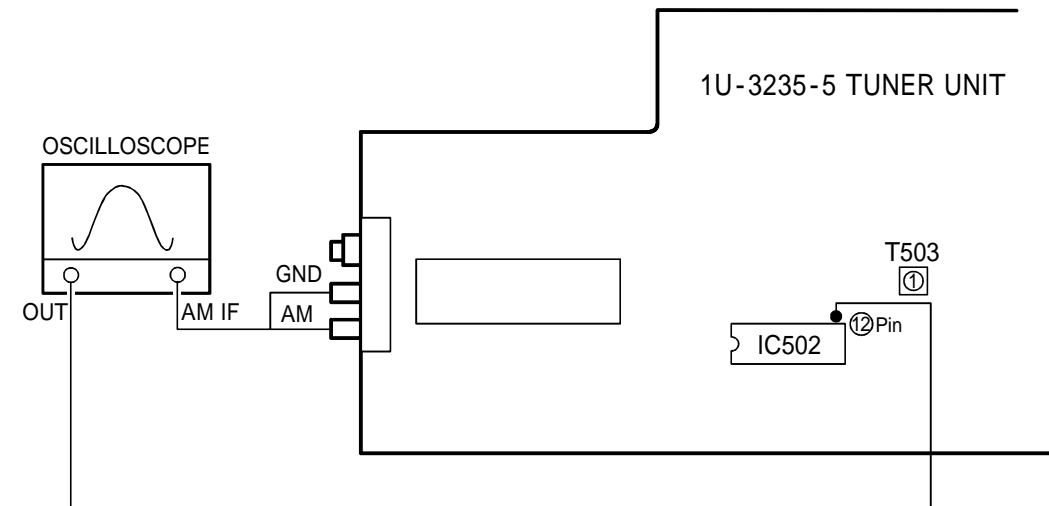
## Tuner Section

### 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	Digital Voltmeter	TP102	T502	± 50mV	Function : FM Mode : Auto
2	Separation	98.1 MHz	FM SSG	98.1 MHz	60 dBμ	Stereo (L) 1kHz 100%	Antenna Terminal	AC Voltmeter	AUDIO OUT Terminal (R)	VR502	Maximum Separation	—
3	Signal Level	98.1 MHz	FM SSG	98.1 MHz	20 dBμ	Off	Antenna Terminal	—	—	VR501	Light "TUNED" FLD Character	—

### AM ALIGNMENT

Step	Alignment Item	Frequency	Input	Output		Adjustment		Remarks
				Type	Connect to	Points	Adjust to	
1	IF	—	IF SWEEP (Input level is not over to work A.G.C.)	Oscilloscope	IC502 12Pin	T503	Maximum height and best symmetry curve	

## Audio Section


### Idling Current (1U-3232-1)



Required measurement equipment : DC Voltmeter

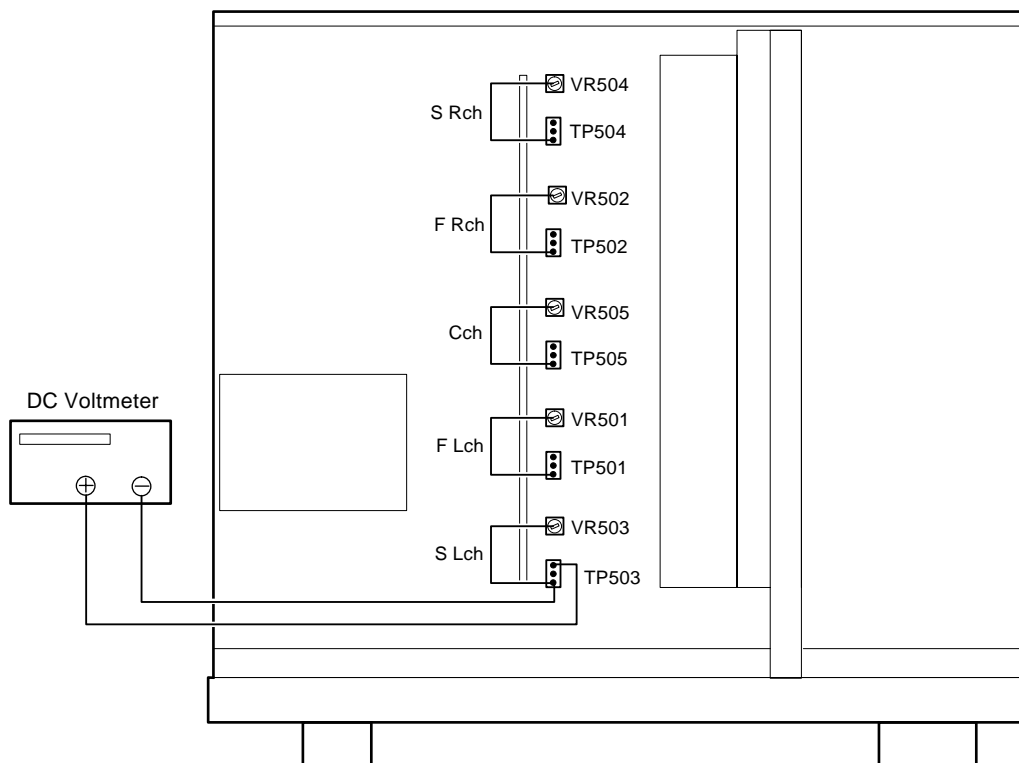
### Preparation

- (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
  - 1 POWER (Power source switch) → OFF
  - 1 SPEAKER (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

### Adjustment

- (1) Remove top cover and set VR501, VR502, VR503, VR504, VR505, on 1U-3232-1 (Power Unit) at counterclockwise (  ) fully.
- (2) Connect DC Voltmeter to test points (FRONT-Lch: TP501, FRONT-Rch: TP502, CENTER ch: TP505, SURROUND-Lch: TP503, SURROUND-Rch: TP504).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Presetting.
 

MASTER VOLUME	: "—" counterclockwise (  min.)
MODE	: 5CH STEREO
FUNCTION	: CD
- (5) Allow 2 minutes, and turn VR501 clockwise (  ) and adjust the TEST POINT voltage to 1.5 mV  $\pm$ 0.5 mV DC.
- (6) After 10 minutes from preset, turn VR501 to set the voltage to 3 mV  $\pm$ 0.5 mV DC.
- (7) Adjust the Variable Resistors of other channels in the same way.
- (8) After 5 minutes from (6), turn VR501 to set the voltage to 3 mV  $\pm$ 0.5 mV DC.
- (9) Adjust the Variable Resistors of other channels in the same way.





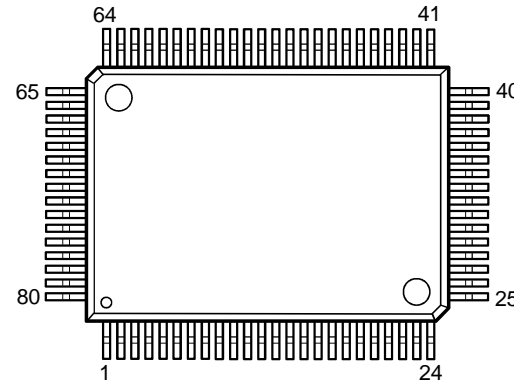
# SEMICONDUCTORS

## ● IC's

**Note:** Abbreviation ahead of IC No. indicates the name of P.W.B.

- PO: Power P.W.B. RE: Regulator P.W.B.
- EX: Exit in P.W.B. AU: Audio/DSP P.W.B.
- CO: Control P.W.B.

### TMP88CU74F (CO: IC303)



### TMP88CU74F Terminal Function

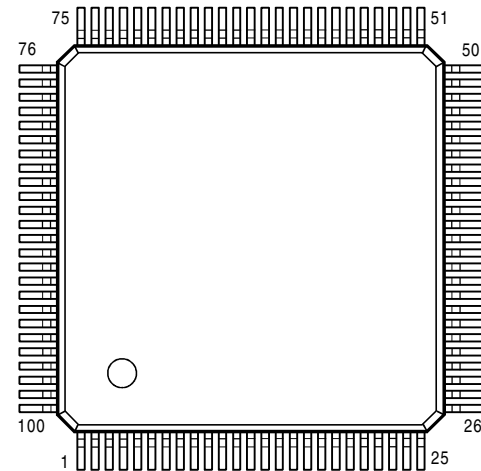
Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	P02/S01	RDS RESET	O	C	—	—	Z	L	RDS reset output (LC7074)
2	P03	OSD RST	O	C	—	—	Z	H	OSD control output (M35015)
3	P04	ST/MONO	O	C	—	—	Z	L	STEREO/MONO control signal, L: STEREO
4	P05	PLFLDATA	O	C	—	—	Z	L	PLL, FL control terminal (LC72131 & LC75721NE)
5	P06	PLL STB	O	C	—	—	Z	L	PLL control terminal (LC72131)
6	P07	PLFL CLK	O	C	—	—	Z	L	PLL, FL control terminal (LC72131 & LC75721NE)
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	TUNED_	I	—	Eu	Lv	Z	—	Tuning detect, L: Tuned
12	P21/XTIN	STEREO_	I	—	Eu	Lv	Z	—	L: At stereo receive
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, H: Detect
16	P11/INT1	RDS START	I	—	—	—	Z	L	RDS data input (LC7074)
17	P12	OSD CLK	O	C	—	—	Z	H	OSD control output (M35015)
18	P13	OSD CS	O	C	—	—	Z	H	OSD control output (M35015)
19	P14	OSDDATA	O	C	—	—	Z	L	OSD control output (M35015)
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	—	—	—	—	—	MAIN-SUB CPU comm. control terminal
24	P31/SDA	SO	O	C	—	—	—	—	MAIN-SUB CPU comm. control terminal
25	P32/SCK0_	CLK	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	FUNC STB1	O	C	—	—	Z	—	Function control output (TC9274N), INPUT
31	P45/AIN5	FUNC/T. CON CLK	O	C	—	—	Z	L	Function control output (TC9274N, TC9273), TONE control output (TC9184P)
32	P46/AIN6	FUNC/T. CON DATA	O	C	—	—	Z	L	Function control output (TC9274N, TC9273), TONE control output (TC9184P)
33	P47/AIN7	FUNC STB2	O	C	—	—	Z	L	Function control output (NJU7313), 6CH EXT. IN
34	P50/AIN8	E.VOL STB	O	C	—	—	L	L	Elect. volume control output (TC9459)
35	P51/AIN9	TONE STB	O	C	—	—	L	L	TONE control output (TC9184P)
36	P52/AIN10	E.VOL DATA	O	C	—	—	L	H	Elect. volume control output (TC9459)
37	P53/AIN11	E.VOL CLK	O	C	—	—	L	H	Elect. volume control output (TC9459)

Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
38	VASS	VASS	I	—	—	—	—	—	Ref. volt (GND)
39	VAREF	VAREF	I	—	—	—	—	—	Ref. volt (VDD)
40	VDD	VDD	I	—	—	—	—	—	Power supply
41	P60	FL CE	O	P	Ed	S	L	H	FL display control output (LC75712NE)
42	P61	FL RES	O	P	Ed	S	L	H	FL display control output (LC75712NE)
43	P62	FUNC STB3	O	P	Ed	—	Z	L	Function control output (TC9273), REC OUT
44	P63	FA-RELAY	O	P	Id	—	L	L	Front SP relay A control terminal, L: Mute
45	P64	FB-RELAY	O	P	Id	—	L	L	Front SP relay B control terminal, L: Mute
46	P65	C-RELAY	O	P	Id	—	L	L	Center SP relay control terminal, L: Mute
47	P66	S-RELAY	O	P	Id	—	L	H	Surround SP relay control terminal, L: Mute
48	P67	PRE F MUTE	O	P	Ed	—	L	H	Front PRE OUT mute control terminal, L: Mute
49	P70	PRE C MUTE	O	P	Ed	—	L	L	Center PRE OUT mute control terminal, L: Mute
50	P71	PRE S MUTE	O	P	Ed	—	L	L	Surround PRE OUT mute control terminal, L: Mute
51	P72	SUB WOOFER MUTE	O	P	Ed	—	L	H	Sub-woofer PRE OUT mute control terminal, L: Mute
52	P73	H/P RELAY	O	P	Id	—	L	H	H/P OUT relay control terminal, L: Mute
53	P74	EXP OE	O	P	Ed	—	L	H	Port expander control terminal (BU4094B)
54	P75	EXP CLK	O	P	Ed	—	L	L	Port expander control terminal (BU4094B)
55	P76	EXP DATA	O	P	Ed	—	L	L	Port expander control terminal (BU4094B)
56	P77	EXP STB	O	P	Ed	—	L	L	Port expander control terminal (BU4094B)
57	P80	POWER	O	P	Id	—	L	H	Power relay control output, H: ON
58	P81	RESET2	O	P	Id	—	L	L	Reset signal output to sub-CPU, H: Reset
59	P82	SUB-CPU-B-DOWN	O	P	Id	—	L	L	B-DOWN signal output to sub-CPU
60	P83	TAPE MON. LED	O	P	Id	—	L	L	TAPE MONITOR LED indicator control, H: MONITOR
61	P84	STANDBY	O	P	Id	—	L	H	Standby LED drive output H: Light
62	P85	DIRECT	O	P	Id	—	L	L	DIRECT relay control, H: DIRECT
63	P86	S1	O	P	Id	—	L	—	Video signal switching control output
64	P87	S2	O	P	Id	—	L	—	Video signal switching control output
65	P90	TUNER MUTE	O	P	Ed	—	L	H	TUNER mute control terminal, H: Mute
66	P91		O	P	Id	—	L	H	Not Used
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: Detected
69	P94	SYNC DET.	I	—	Eu	Lv	Z	—	Sync detect input, H: Ext. sync
70	P95	SEL A (M)	I	—	Eu	Lv	Z	—	Master volume rotation detect input (rotary encoder)
71	P96	SEL B (M)	I	—	Eu	Lv	Z	—	Master volume rotation detect input (rotary encoder)
72	P97	CINEMA EQ	O	P	Eu	Lv	Z	L	CINEMA EQ control output, H: ON
73	PD0	VOL MUTE	O	P	Ed	—	L	L	Master volume minimum control, L: Min.
74	PD1	SEL C (S)	I	—	Eu	Lv	Z	—	Surround mode rotation detect input (rotary encoder)
75	PD2	SEL D (S)	I	—	Eu	Lv	Z	—	Surround mode rotation detect input (rotary encoder)
76	PD3	SEL E (F)	I	—	Eu	Lv	Z	—	Input selector switch rotation detect input (rotary encoder)
77	PD4	SEL F (F)	I	—	Eu	Lv	Z	—	Input selector switch rotation detect input (rotary encoder)
78	Vkk	Vkk	—	—	—	—	—	—	GND fixed
79	P00/SCK1_	RDS CLK	I	—	—	S	Z	—	RDS clock input (LC7074)
80	P01/SI1	RDS DATA	I	—	—	S	Z	—	RDS data input (LC7074)

### 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.
- 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.
  - "Iu" = Inner microcomputer pull up
  - "Id" = 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 shifting is "E&L"; 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.

TMP93CS41F (AU: IC301)

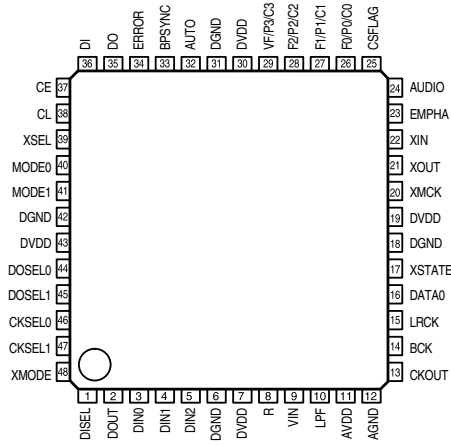


TMP93CS41F Terminal Function

Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	V REFL		—	—	—	—	—	—	A/D ref. GND
2	A Vss	←	—	—	—	—	—	—	A/D GND
3	A Vcc	←	—	—	—	—	—	—	AD +5V
4	_NMI		I	—	—	—	—	—	Not used (fixed to H)
5	P70/TI0	C15	O	C	—	—	L	L	Fixed to L (DSP ROM address cont. out bit 15, not used)
6	P71/TO1	C16	O	C	—	—	L	L	DSP program ROM address cont. output bit 16
7	P72/TO2	C17	O	C	—	—	L	L	DSP program ROM address cont. output bit 17
8	P73/TO3		O	C	—	—	L	L	
9	P80/INT4/TI4	_INTREQ	I/O	C	Eu	E↓&L	Z	—	DSP request input and cont. output (L: Rq & cont.)
10	P81/INT5/TI5	B.DOWN_	I	—	Eu	E↑&L	Z	—	Power down detect (H: Detected)
11	P82/TO4	DSP SS	O	C	—	—	Z	L	
12	P83/TO5	_REQ	O	C	Eu	—	H	L	MAIN-SUB CPU comm. control output (L: Comm. request from sub)
13	P84/INT6/TI6	_ACK	I	—	Eu	E↓&L	—	—	MAIN-SUB CPU comm. control input (L: Ack. return from main)
14	P85/INT7/TI7	ERR	I	—	—	E↑&L	—	—	DIR control input terminal (LC89055Q)( H: ERR)
15	P86/TO6	_DSP RESET	O	C	—	—	L	L	DSP reset output terminal (L: Reset)
16	P87/INT0	_CS	I	—	—	E↑&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	C					MAIN-SUB CPU comm. control terminal (I2C clock in/output)
20	P93/TXD1	DSPDATA	O	C	—	—	Z	L	
21	P94/RXD1	DSP SO	O	C	—	Lv	Z	L	
22	P95/SCLK1	DSP CLK	O	C	—	—	Z	L	
23	AM8/_16	←	—	—	—	—	—	—	Fixed to +5V
24	CLK		O	C	Eu	—	—	—	
25	Vcc	←	—	—	—	—	—	—	+5V
26	Vss	I/O1	—	—	—	—	—	—	GND
27	X1	Xin	I	—	—	—	—	—	X'tal connection
28	X2	Xout	O	—	—	—	—	—	X'tal connection
29	_EA	←	—	—	—	—	—	—	Fixed to GND
30	_RESET	RESET2_	I	—	Eu	Lv	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		O	C	Ed	—	L	L	
33	TEST1	←	I	—	—	—	—	—	Connected to TEST2
34	TEST2	←	I	—	—	—	—	—	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		O	C	Ed	—	L	L	
39	PA4	DIRECT	O	C	Ed	—	L	L	Digital direct data switch cont. terminal (H: Direct)
40	PA5		O	C	Ed	—	L	L	

Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
41	PA6	DEEMP	O	C	Ed	—	L	L	DAC de-emphasis filter cont. out terminal (H: ON)
42	PA7/SCOUT	96k-DAC	O	C	—	—	Z	L	DAC control terminal (H: Sample frequency 96kHz)
43	ALE	←	O	C	—	—	L	L	Address latch enable
44	Vcc		—	—	—	—	—	—	+5V
45	P00/AD0	AD0	I	—	—	—	—	—	
46	P01/AD1	AD1	I	—	—	—	—	—	
47	P02/AD2	AD2	I	—	—	—	—	—	
48	P03/AD3	AD3	I	—	—	—	—	—	
49	P04/AD4	AD4	I	—	—	—	—	—	
50	P05/AD5	AD5	I	—	—	—	—	—	
51	P06/AD6	AD6	I	—	—	—	—	—	
52	P07/AD7	AD7	I	—	—	—	—	—	
53	P10/AD8/A8	A8	I	—	—	—	—	—	
54	P11/AD9/A9	A9	I	—	—	—	—	—	
55	P12/AD10/A10	A10	I	—	—	—	—	—	
56	P13/AD11/A11	A11	I	—	—	—	—	—	
57	P14/AD12/A12	A12	I	—	—	—	—	—	
58	P15/AD13/A13	A13	I	—	—	—	—	—	
59	P16/AD14/A14	A14	I	—	—	—	—	—	
60	P17/AD15/A15	A15	I	—	—	—	—	—	
61	_WDTOUT	←	O	C	—	—	Z	H	
62	Vss	←	—	—	—	—	—	—	GND
63	Vcc	←	—	—	—	—	—	—	+5V
64	P20/A0/A16	A16	I	—	—	—	—	—	
65	P21/A1/A17	DIR CLK	O	C	—	—	Z	L	DIR control terminal (LC89055Q) control clock output
66	P22/A2/A18	DIR CE	O	C	—	—	Z	L	DIR control terminal (LC89055Q) control chip enable output
67	P23/A3/A19	DIR MOSI	O	C	—	—	Z	L	DIR control terminal (LC89055Q) control data output
68	P24/A4/A20	DIR MISO	I	—	—	Lv	—	—	DIR control terminal (LC89055Q) control data input
69	P25/A5/A21	SW-SUM	O	C	—	—	L	L	Subwoofer output summation cont. output
70	P26/A6/A22	DAC-RESET	O	C	—	—	L	H	DAC control terminal (L: Powerdown mode, →(rising edge) Reset)
71	P27/A7/A23	SEL CK	O	C	—	—	Z	L	ADC/DIR data clock switching control terminal (L: ADC)
72	P30/_RD	_RD	O	C	—	—	Z	L	
73	P31/_WR	_WR	O	C	—	—	Z	L	
74	P32/_HWR	CSI	I	—	—	Lv	—	—	DIR control input terminal (L: PCM)
75	P33/_WAIT	ERR MUTE_	O	C	—	—	L	L	Pop noise preventive mute control output (L: Mute)
76	P34/_BUSRQ		I	—	—	—	—	—	
77	P35/_BUSRQ	DIG. (AC3) MUTE	O	C	—	—	Z	L	Digital mute control output (L: AC-3 or DTS decode enable)
78	P36/_RW		I	—	—	—	—	—	
79	P37/_RAS	DIR RESET	O	C	—	—	Z	L	DIR control output (LC89055Q) (L: Reset)
80	P40/_CS0/_CAS0		O	C	—	—	Z	L	
81	P41/_CS1/_CAS1		O	C	—	—	Z	L	
82	P42/_CS2/_CAS2	_CS0	O	C	—	—	Z	L	Flash memory control terminal
83	P60/PG00	DSP C. RESET	O	C	—	—	Z	L	DSP reset output terminal (L: Reset)
84	P61/PG01	SCDOUT	I	—	—	Lv	—	—	DSP status data input terminal
85	P62/PG02	DSP_C. CS	O	C	—	—	Z	L	DSP chip select cont. output (L: Data out)
86	P63/PG03	DSP C. CLK	O	C	—	—	Z	L	DSP data clock output terminal
87	P64/PG10	SCDIN	O	C	—	—	Z	L	DSP data output terminal
88	P65/PG11		O	C	—	—	Z	L	
89	P66/PG12		O	C	—	—	Z	L	
90	P67/PG13		O	C	—	—	Z	L	
91	Vss	←	—	—	—	—	—	—	GND
92	P50/AN0		I	—	—	—	—	—	
93	P51/AN1		I	—	—	—	—	—	
94	P52/AN2	EMP	I	—	—	Lv	—	—	H: EMP on
95	P53/AN3	96K DET	I	—	—	Lv	—	—	96k signal detect input, H: 96k
96	P54/AN4		I	—	—	—	—	—	
97	P55/AN5		I	—	—	—	—	—	
98	P56/AN6		I	—	—	—	—	—	
99	P57/AN7		I	—	—	—	—	—	
100	V REFH	←	—	—	—	—	—	—	AD ref. +5V

LC89055W (AU: IC800)

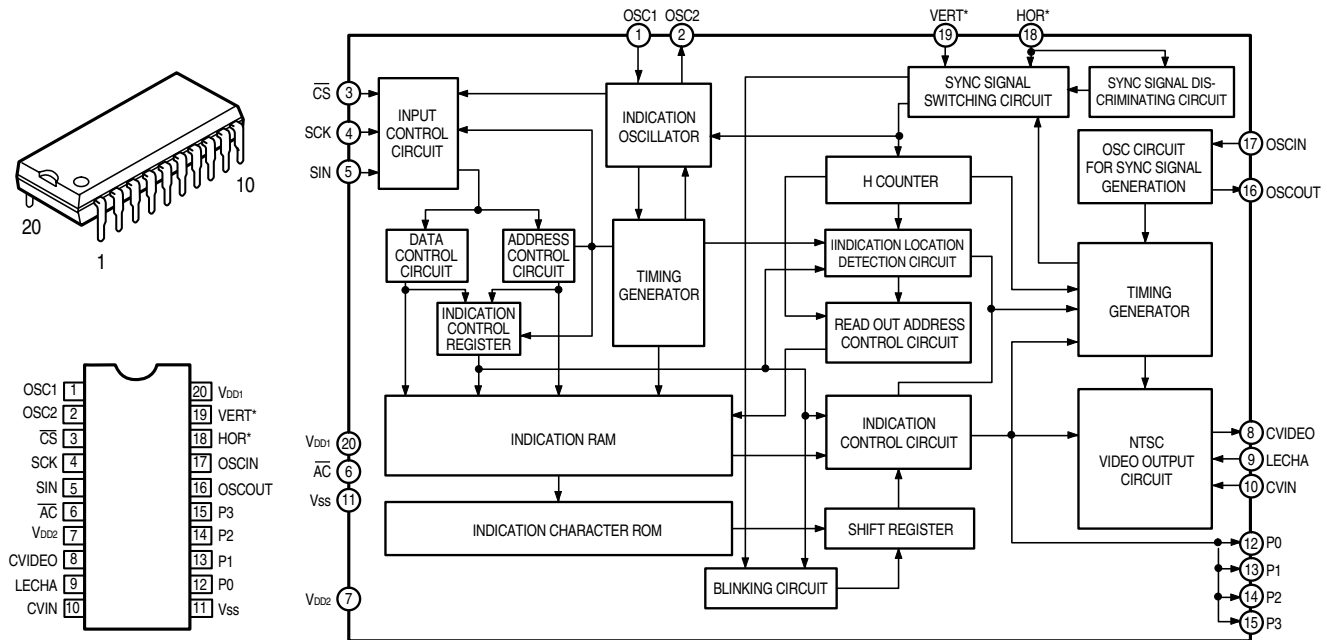


LC89055W Terminal Function

Pin No.	Pin Name	I/O	Function
1	DISEL	I	Data input terminal (select input pin of DIN0, DIN1)
2	DOUT	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	LRCK	O	fs clock output terminal (L: Rch, H: Lch, I2S: Reverse)
16	DATAO	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.

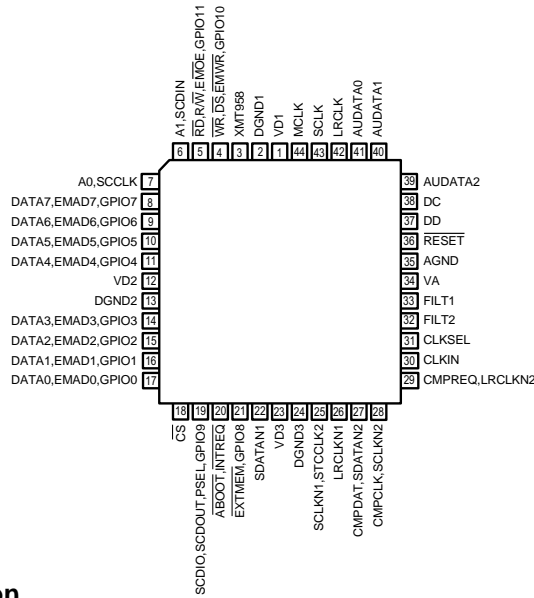
M35015-204SP (RE: IC308)



M35015-204SP 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. With this OSC. freq., decides horizontal indicatin and character width.
2	OSC2		O	
3	$\overline{CS}$	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 rersist 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	$\overline{AC}$	Auto-clear input	I	Resets internal circuit of IC at "L" mode. Hysteresi 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	OSCOUT	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		I	
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.

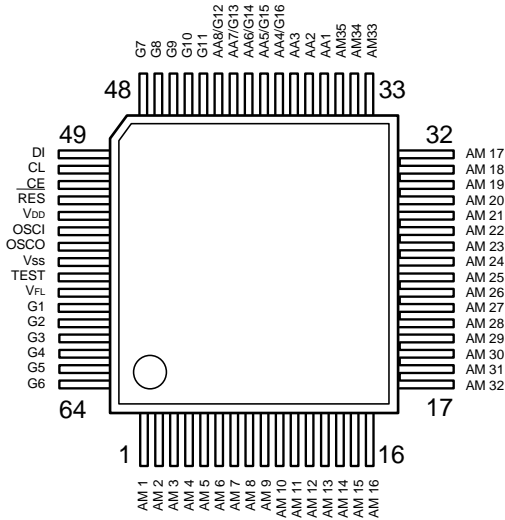
**CS492604-CLR**  
(AU: IC814)



**CS492604-CLR Terminal Function**

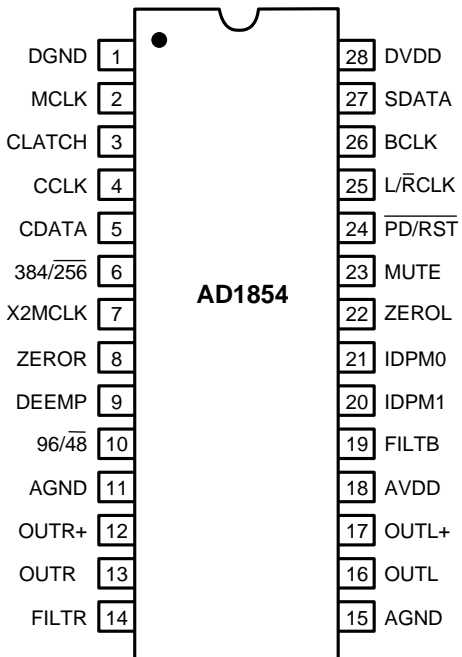
Pin No.	Pin Name	Function
1	VD1	Digital positive supply
2	DGND1	Digital supply ground
3	XMT958	SPDIF transmitter output
4	WR, DS, EMWR, GPIO10	Host write strobe or host data strobe or external memory write enable or general purpose input & output number10
5	RD, R/W, EMOE, GPIO11	Host parallel output enable or host parallel R/W or external memory outout enable or general purpose input & output number11
6	A1, SCDIN	Host address bit one or SPI serial control data input
7	A0, SCCLK	Host parallel address bit zero or serial control port clock
8	DATA7, EMAD7, GPIO7	
9	DATA6, EMAD6, GPIO6	
10	DATA5, EMAD5, GPIO5	
11	DATA4, EMAD4, GPIO4	
12	VD2	Digital positive supply
13	DGND2	Digital supply ground
14	DATA3, EMAD3, GPIO3	
15	DATA2, EMAD2, GPIO2	
16	DATA1, EMAD1, GPIO1	
17	DATA0, EMAD0, GPIO0	
18	CS	Host parallel chip select, host serial SPI chip select
19	SCDIO, SCDOUT, PSEL, GPIO9	Serial control port data input and output, parallel port type select
20	INTREQ, ABOOT	Control port interrupt request, automatic boot enable
21	EXTMEM, GPIO8	External memory chip select or general purpose input & output number 8
22	SDATAN1	PCM audio data input number one
23	VD3	Digital positive supply
24	DGND3	Digital supply ground
25	SCLKN1, STCCLK2	PCM audio input bit clock
26	LRCLKN1	PCM audio input sample rate clock
27	CMPDAT, SDATAN2	PCM audio data input number two
28	CMPCLK, SCLKN2	PCM audio input bit clock
29	CMPREQ, LRCLKN2	PCM audio input sample rate clock
30	CLKIN	Master clock input
31	CLKSEL	DSP clock select
32	FILT2	Phase locked loop filter
33	FILT1	Phase-locked loop filter
34	VA	Analog positive supply
35	AGND	Analog supply ground
36	RESET	Master reset input
37	DD	Reserved
38	DC	Reserved
39	AUDATA2	Digital audio output 2
40	AUDATA1	Digital audio output 1
41	AUDATA0	Digital audio output 0
42	LRCLK	Audio output sample rate clock
43	SCLK	Audio output bit clock
44	MCLK	Audio master clock

LC75721E (EX: IC101)



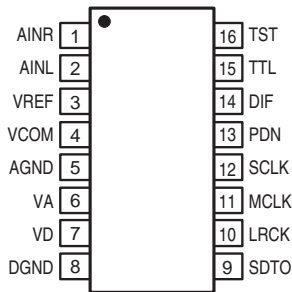
Symbol	Function
VDD	Power terminal +5V
VSS	Power terminal GND
VFL	Power terminal FL drive
DI CL CE	Serial data transfer terminal DI: Data CL: Clock CE: Chip enable
OSC1 OSC0	External CR connecting terminal
RES	System reset terminal
AM1~AM35 AA1~AA3	Anode output terminal
AA4/G16 AA5/G15 AA6/G14 AA7/G13 AA8/G12	Anode/Grid output terminal
G1~G11	Grid output terminal
TEST	LSI test terminal

AD1854 (AU: IC701, 702, 703)



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.

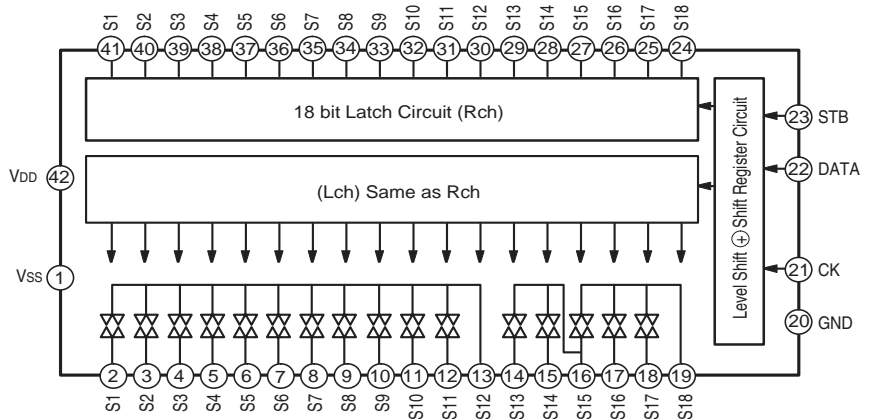
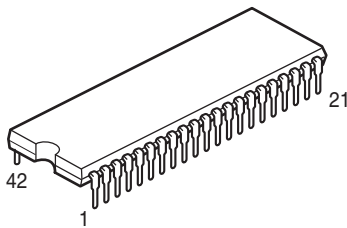
**AK5353 (AU: IC813)**



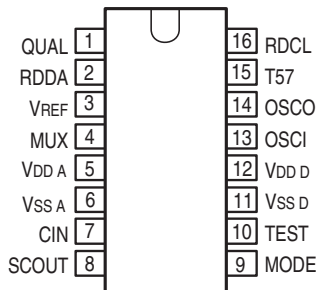
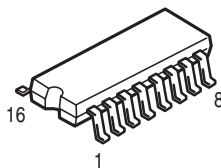
**Terminal Function**

No.	Name	I/O	Function
1	AINR	I	Rch analog input pin
2	AINL	I	Lch analog input pin
3	VREF	O	Ref. V out pin
4	VCOM	O	Common V out pin
5	AGND	—	Analog GND pin
6	VA	—	Analog power pin, +2.7~+5.5
7	VD	—	Digital power pin, +2.7~+5.5V
8	DGND	—	Digital GND pin
9	SDTO	O	Serial data out pin, 2's complement, MSB first out, at power down: L
10	LRCK	I	L/Rch clock pin
11	MCLK	I	Master clock input pin
12	SCLK	I	Serial data clock input pin, A/D data out at SCLK falling edge
13	PDN	I	Power down pin, L: Power down mode
14	DIF	I	Serial interface format pin (L: Firward, H: I <sup>2</sup> S)
15	TTL	I	Digital input level select pin, L: CMOS level, H: TTL level
16	TST	I	Test pin (internal pull-down)

**TC9274N-011 (AU: IC107)**



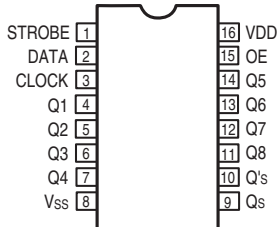
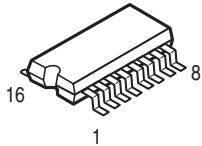
**Europe model only  
SAA6579T (CO: IC301)**



**SAA6579T Terminal Function**

Pin No.	Symbol	Function
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	VREF	Reference voltage output (0.5 V <sub>DD A</sub> ).
4	MUX	Multiplex signal input.
5	VDD A	+5V power supply for analog part.
6	VSS A	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier output of reconstruction filter.
9	MODE	Oscillation mode/test control input.
10	TEST	Test enable input.
11	VSS D	Ground for digital part (0V).
12	VDD D	+5V power supply for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	T57	57kHz clock signal output.
16	RDCL	RDS clock output.

**BU4094BF (CO: IC304, EX: IC103)**



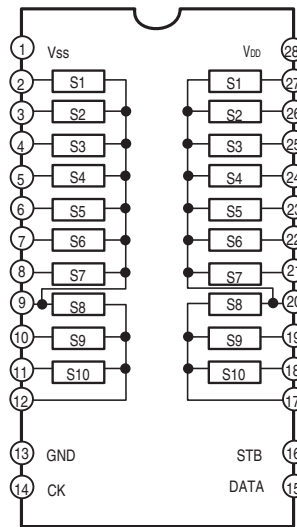
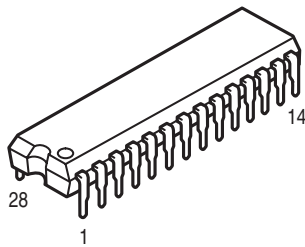
**CO: IC304**

Port	Symbol	Function
Q1	A	Video input switching
Q2	B	Video input switching
Q3	C	Video input switching
Q4	D	Video output switching
Q5	E	Video output switching
Q6	F	Video output switching (DVD/TV)
Q7	G	Video output switching (DVD/TV)
Q8	Not Used	

**EX: IC103**

Port	Symbol	Function
Q1	LOCK LED	"LOCK" LED drive output (H: Lock)
Q2	DOLBY DIGITAL LED	"DOLBY DIGITAL" LED drive output (H: D.Digital)
Q3	dts LED	"dts" LED drive output (H: dts)
Q4	AUTO LED	"AUTO" LED drive output (H: input mode "AUTO")
Q5	DTS LED	"DTS" LED drive output (H: input mode "DTS")
Q6	PCM LED	"PCM" LED drive output (H: input mode "PCM")
Q7	FRONT SP-A LED	"FRONT SPEAKER A" LED drive output
Q8	FRONT SP-B LED	"FRONT SPEAKER B" LED drive output

**TC9273N-004 (AU: IC108)**

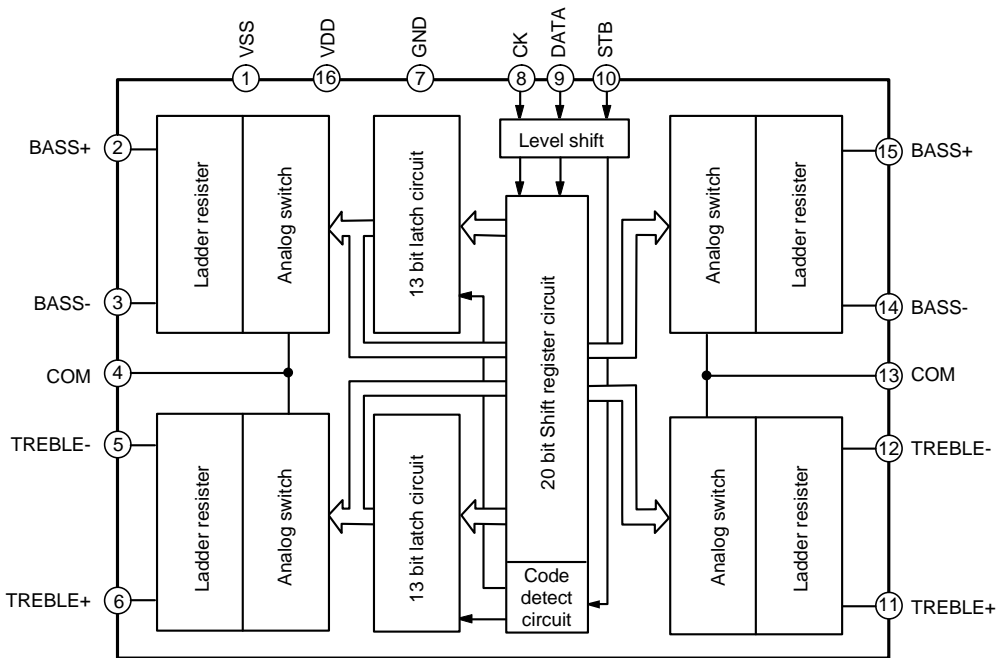
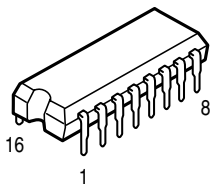


**TC9273N Terminal Function**

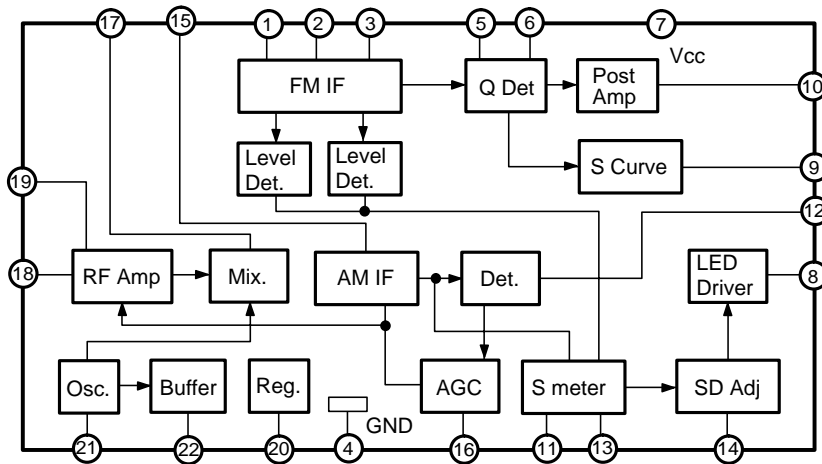
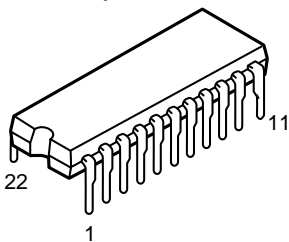
Pin No.	Symbol	Name	Function	Note
1	Vss	Power Terminal	Dual Power Use: VDD = 8.0~17 V GND = 0V Vss = 8.0~17V Single Power Use: VDD = 8.0~18V Vss = GND = 0V	
13	GND	Digital Ground		
28	VDD	+Power Terminal		
2~12 17~27	S1~11	I/O Terminal	Input terminal of analog switch.	
14	CK	Clock Input	Clock input for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



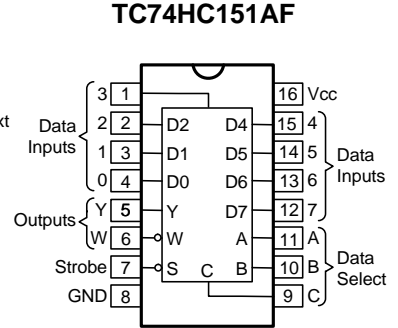
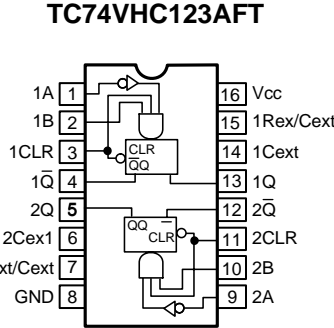
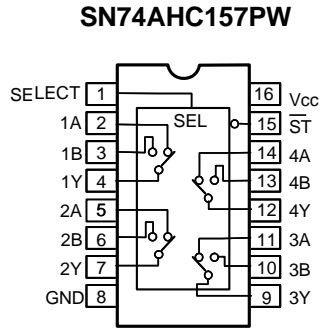
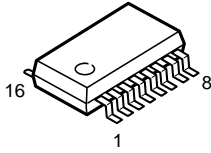
TC9184AP (CO: IC102)



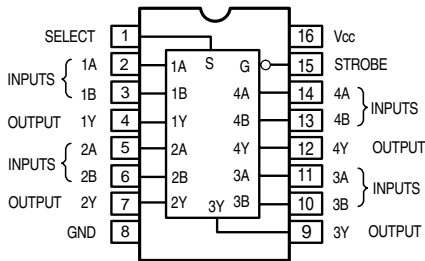
LA1265 (S)  
(RE: IC502)



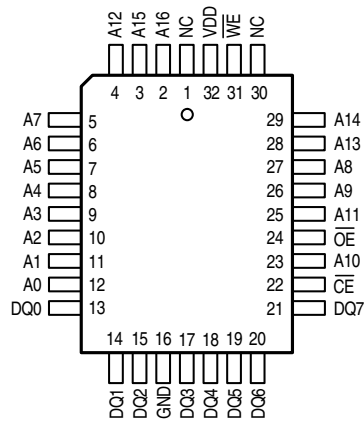
**SN74AHC157PW**  
 (AU: IC804)  
**TC74VHC123AFT**  
 (AU: IC801, 806)  
**TC74HC151AF**  
 (CO: IC705)  
**TC74HCT157AF**  
 (AU: IC805)



**TC74HCT157AF**



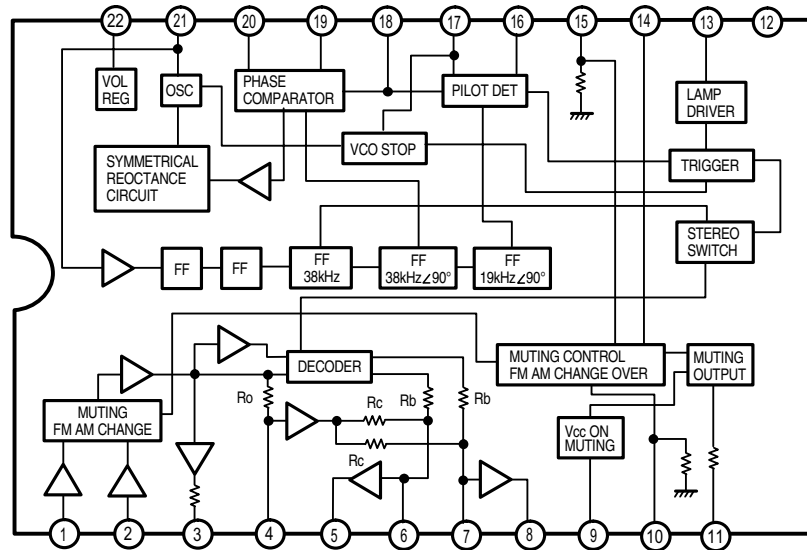
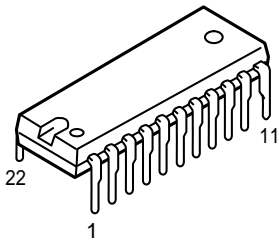
**W29C020P-90 (AU: IC817)**



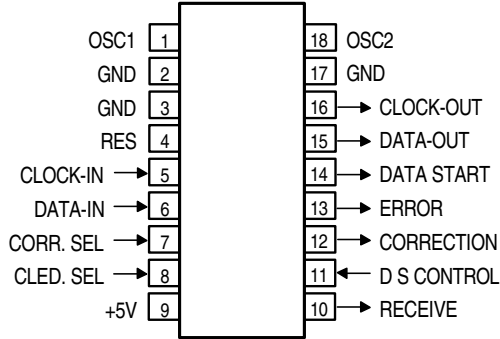
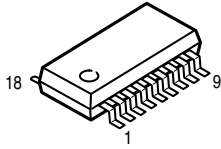
**Terminal Function**

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

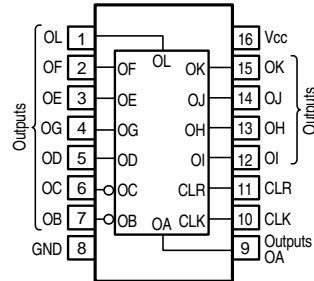
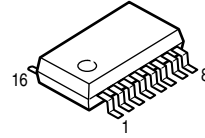
**LA3401**  
 (TU: IC503)



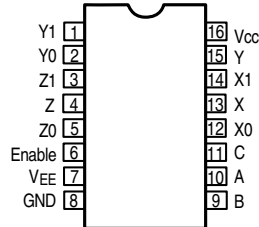
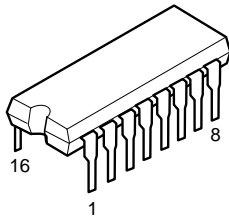
**LC7074M (CO: IC302)**  
(Europe model only)



**SN74LV4040APW (AU: IC812)**



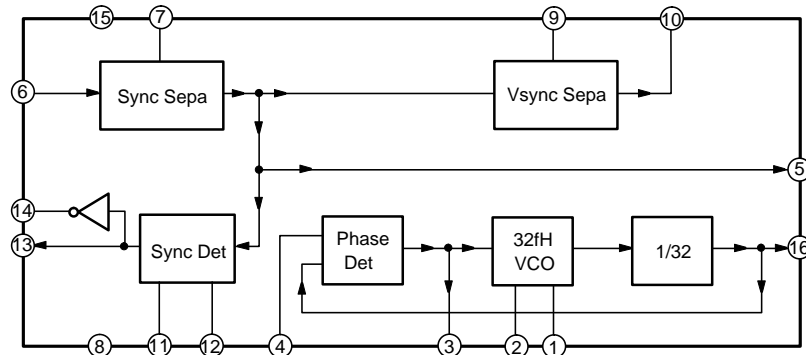
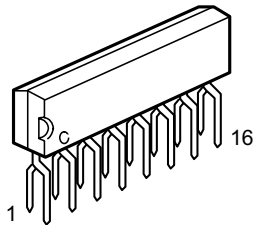
**MC74HC4053N**  
(RE: IC304)



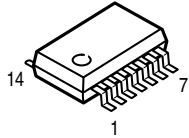
Control Inputs		Select			ON Switches		
		Enable	C	B			
L	L	L	L	L	Z0	Y0	X0
L	L	L	L	H	Z0	Y0	X1
L	L	L	H	L	Z0	Y1	X0
L	L	L	H	H	Z0	Y1	X1
L	H	L	L	L	Z1	Y0	X0
L	H	L	L	H	Z1	Y0	X1
L	H	L	H	L	Z1	Y1	X0
L	H	L	H	H	Z1	Y1	X1
H	X	X	X	X	None		

X = Don't Care

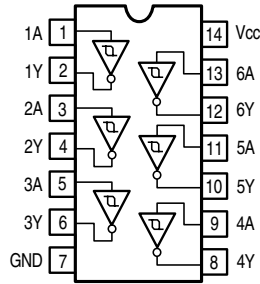
**NJM2229S (RE: IC305)**



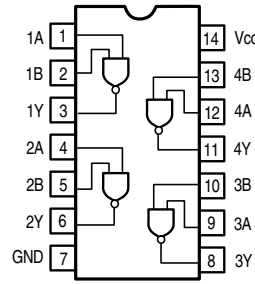
SN74LV14APW (AU: IC809)  
 SN74LV00APW (AU: IC807, 808)  
 TC74HCU04AF (CO: IC704)



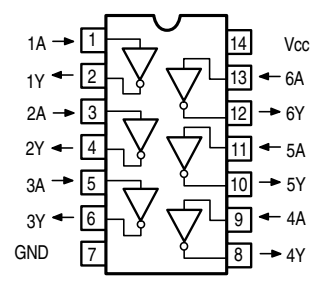
SN74LV14APW



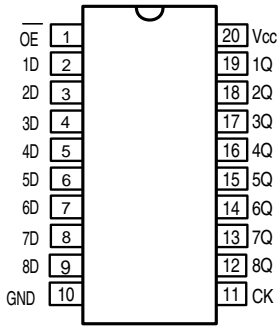
SN74LV00APW



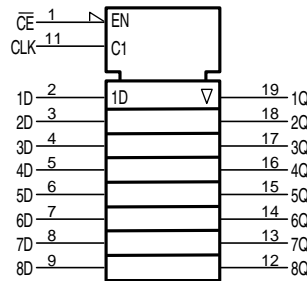
TC74HCU04AF



SN74AHC574APW  
 (AU: IC815, 816)



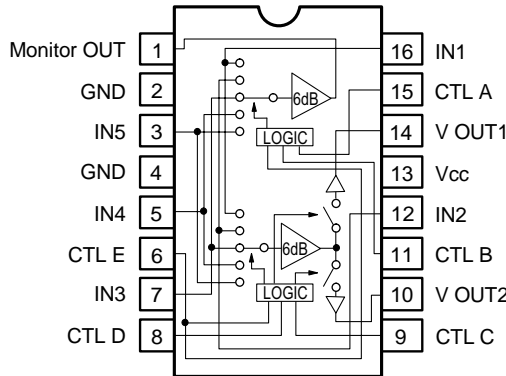
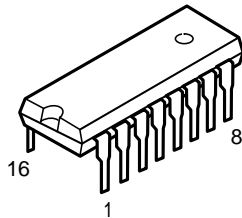
logic symbol



Function Table  
 (each flip-flop)

~ PUTS			OUTPUT
OE	CL1	D	Q
L	↑	^	^
L	↑	L	L
L	H o L	X	2
^	4	4	5

BA7625  
 (PO: IC402, 450)  
 (RE: IC302, 377)  
 BA7626  
 (RE: IC301, 376)



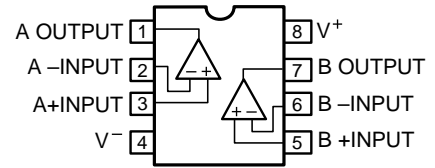
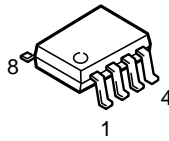
A	B	E	MONITOR OUT
L	L	*	~ 1
^	L	*	~ 2
L	^	*	~ 3
^	^	L	~ 4
^	^	^	~ 5

C	D	V OUT 1
L	L	*
^	L	*
L	^	*
^	^	L
^	^	^

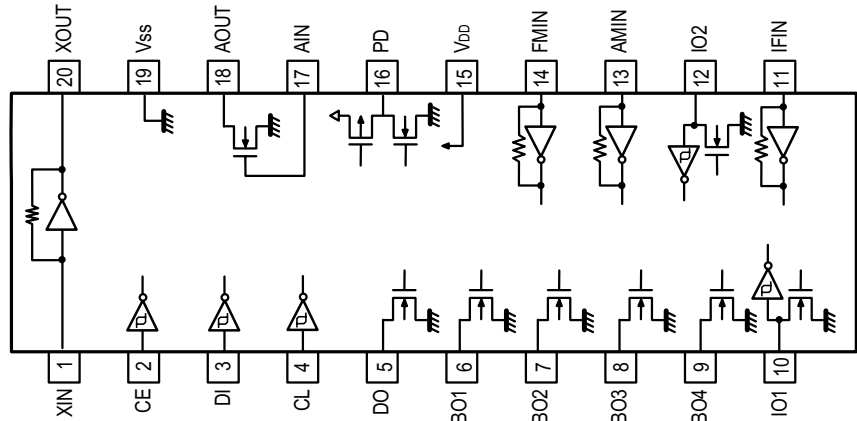
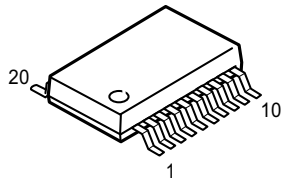
C	D	V OUT 2
L	L	*
^	L	*
L	^	*
^	^	L
^	^	^

Note 1: \* means that the output is in a high-impedance state.  
 Note 2: (" ") means that the output is in a high-impedance state, with the output voltage between Vcc and GND. ("!") means that the output is in a high-impedance state, with the output voltage between Vcc and GND.

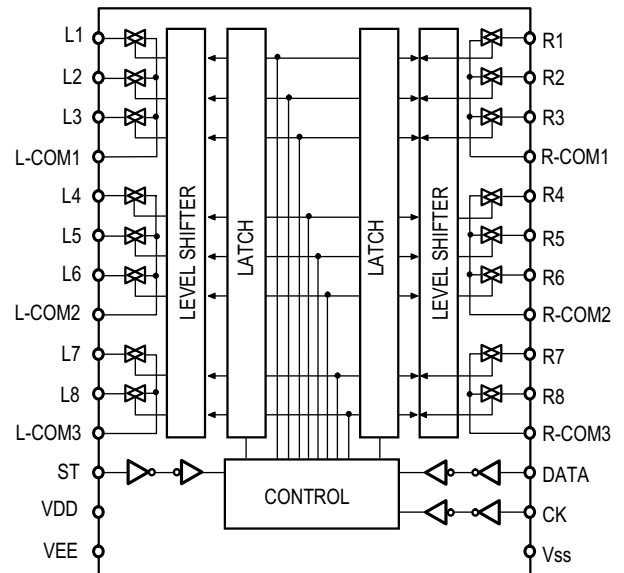
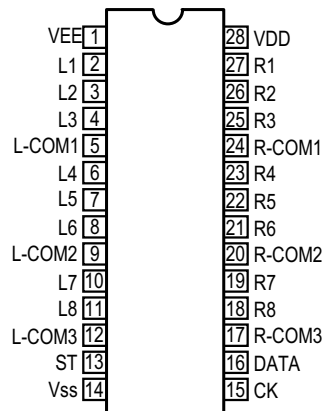
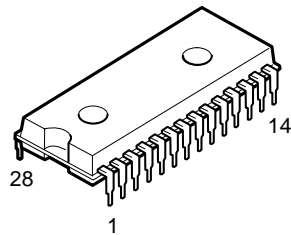
BA4510F (AU: IC811)  
 UPC4570G2 (EX: IC302,308~310,701,801~803)  
 (CO: IC103,104)  
 (AU: IC106,109,731~733)



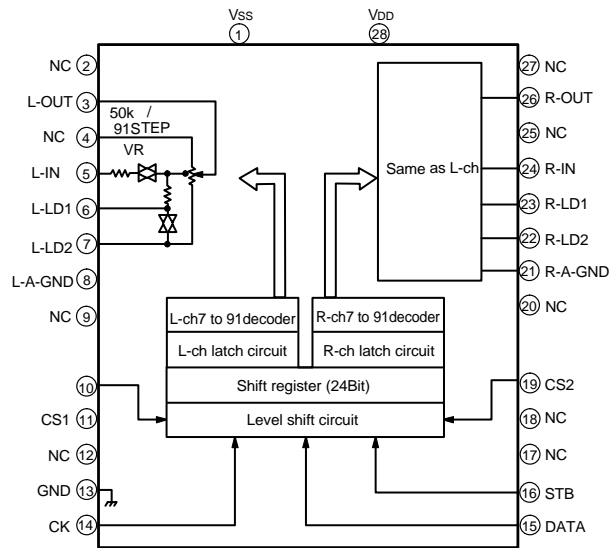
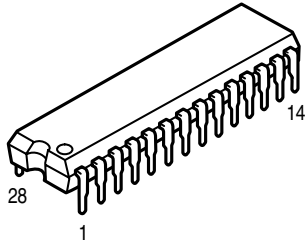
LC72131M (RE: IC507)



NJU7313AL (EX: IC311)

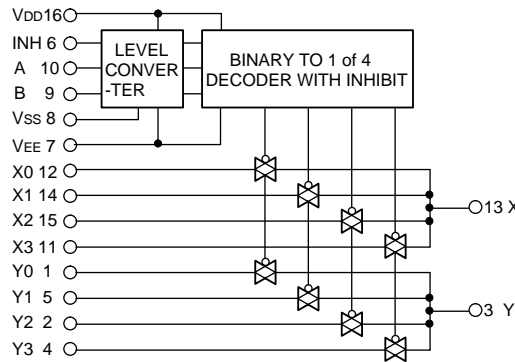
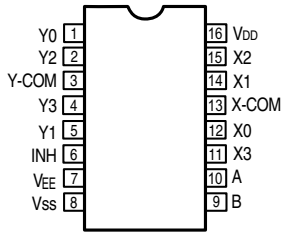
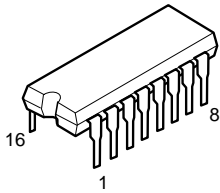


TC9459N (EX: IC805~807)



BU4052BC (PO: IC401)

(RE: IC371, 375)

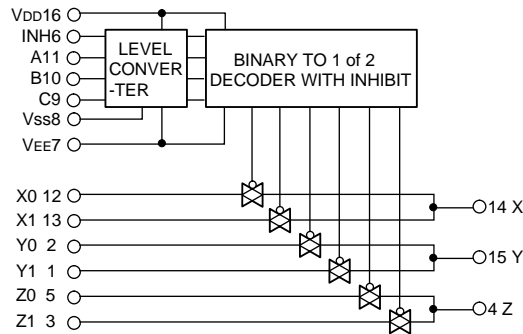
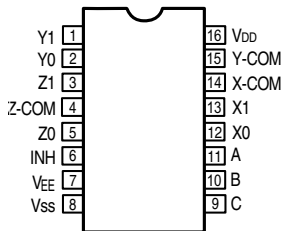
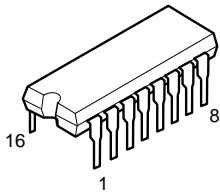


TRUTH TABLE

$\bar{Y}$ BIT	A	B	$\bar{O}$ 3 6TC
L	L	L	4 7
L	$\bar{\wedge}$	L	X1 Y1
L	L	$\bar{\wedge}$	X2 Y2
L	$\bar{\wedge}$	$\bar{\wedge}$	X3 Y3
$\bar{\wedge}$	4	4	$\bar{\wedge}$ O

4, of 8 C

BU4053BC (PO: IC403)

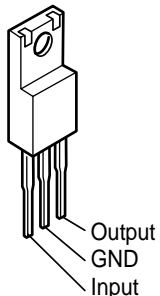


TRUTH TABLE

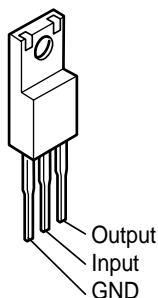
$\bar{Y}$ BIT	A	B	C	$\bar{O}$ 3 6TC
L	L	L	L	4 7 5
L	$\bar{\wedge}$	L	L	X1 7 5
L	L	H	L	4 Y1 5
L	$\bar{\wedge}$	H	L	X1 Y1 5
L	L	L	$\bar{\wedge}$	4 7 51
L	$\bar{\wedge}$	L	$\bar{\wedge}$	X1 7 51
L	L	H	$\bar{\wedge}$	4 Y1 51
L	$\bar{\wedge}$	H	$\bar{\wedge}$	X1 Y1 51
$\bar{\wedge}$	4	4	4	$\bar{\wedge}$ O

4, of 8 C

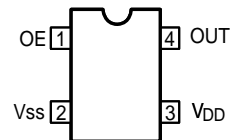
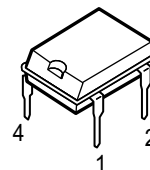
NJM7805FA (S) (RE: IC902, 903)  
 NJM7806FA (S)  
 (PO: IC502)  
 (RE: IC904)  
 NJM7812FA (S) (RE: IC906)  
 BA033T (AU: 819)



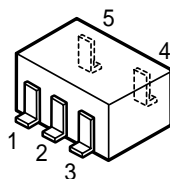
NJM7912FA (RE: IC907)



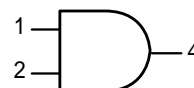
SG-8002DCPT (12.287MHz)  
 (AU: XL802)



SN74AHCT1G08DBV (AU: IC821)

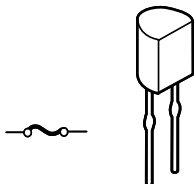


1: A  
 2: B  
 3: GND  
 4: Y  
 5: Vcc



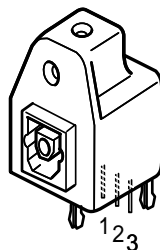
● IC PROTECTOR

ICP-N15 (PO: IC501)

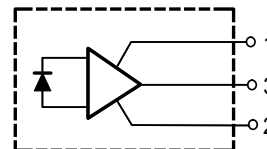


● OPTICAL

INPUT  
 GP1F37R1 (CO: IC701~703)

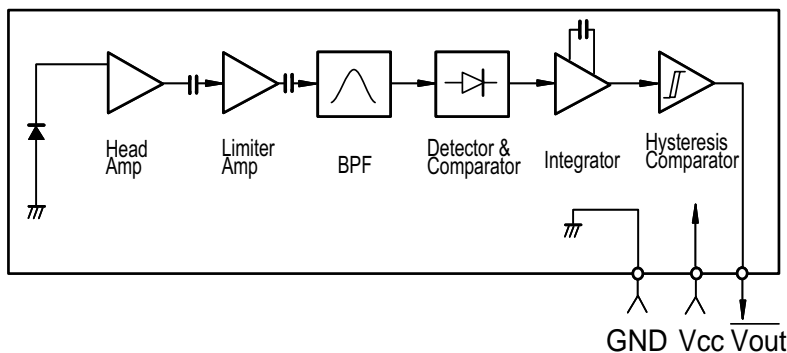
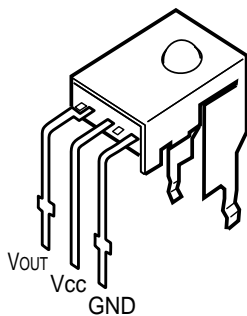


1. Vcc  
 2. GND  
 3. Vout



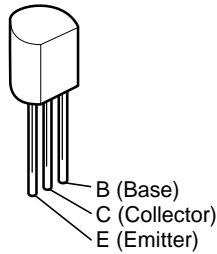
● OTHERS

GP1U271X (Remote Control Sensor)  
 (EX: IC102)

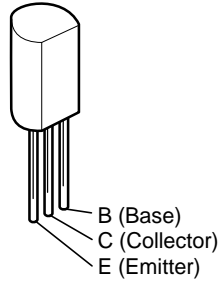


● TRANSISTORS

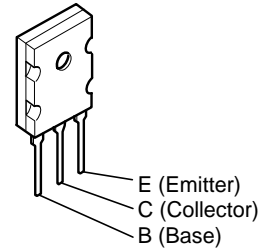
2SA970 (BL)  
2PA1015GR  
2SA988 (E/F)  
2PC1815 (BL)  
2SC3200 (BL)  
KTC2874B



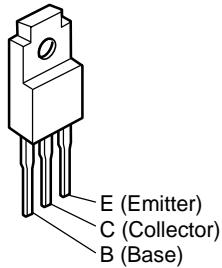
2SC2705 (O) / (Y)



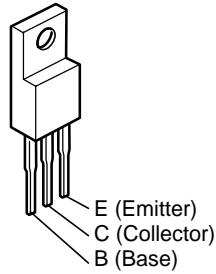
2SA1491  
2SC3855



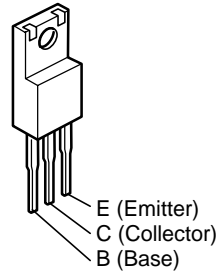
2SB1186A  
2SD1763A



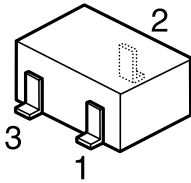
2SA1670 (O/P/Y)



2SC4495



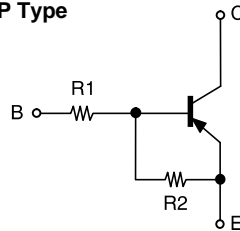
DTA114TK  
DTA114EK  
DTA144EK  
DTC114EK  
DTC144EK  
DTC323TK  
KRA102S



1: GND/Emitter  
2: Out/Collector  
3: In/Base

DTA114TK  
DTA114EK  
DTA144EK  
KRA102S

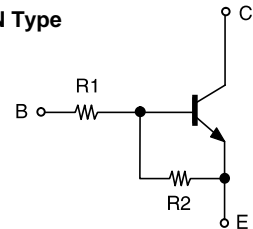
PNP Type



	R1	R2
DTA114TK	10kohm	
DTA114EK	10kohm	10kohm
DTA144EK	47kohm	47kohm
KRA102S	10kohm	10kohm

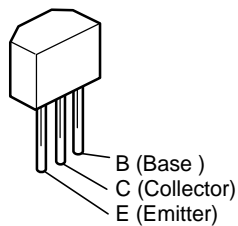
DTC114EK  
DTC144EK  
DTC323TK

NPN Type

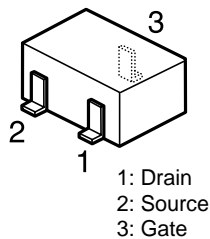


	R1	R2
DTC114EK	10kohm	10kohm
DTC144EK	47kohm	47kohm
DTC323TK	2.2kohm	

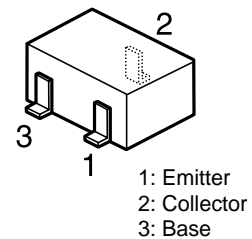
2SA933S (S)  
2SC3311A  
2SC1645S (B)



2SK771



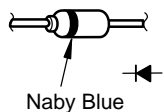
2SA1505Y  
2SC2996 (Y)  
2SC3326 (A/B)  
2SD601A



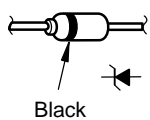


● DIODES (included LED)

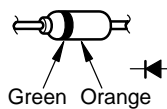
1SS270A



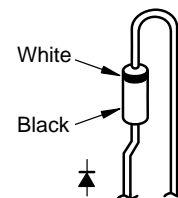
MTZJ3.3A MTZJ7.5A  
MTZJ5.6A MTZJ9.1A  
MTZJ6.2A MTZJ36A



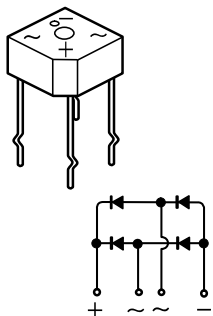
1SR35-400A



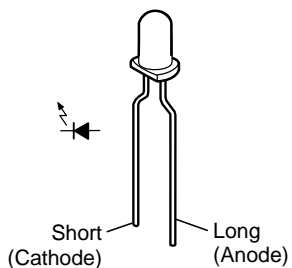
DSM1D2(Type 3)



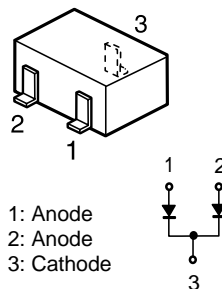
S4VB20



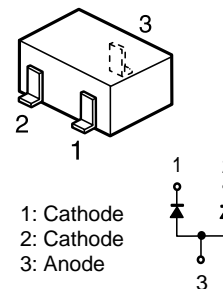
SEL1210S (Red)  
SEL4214S



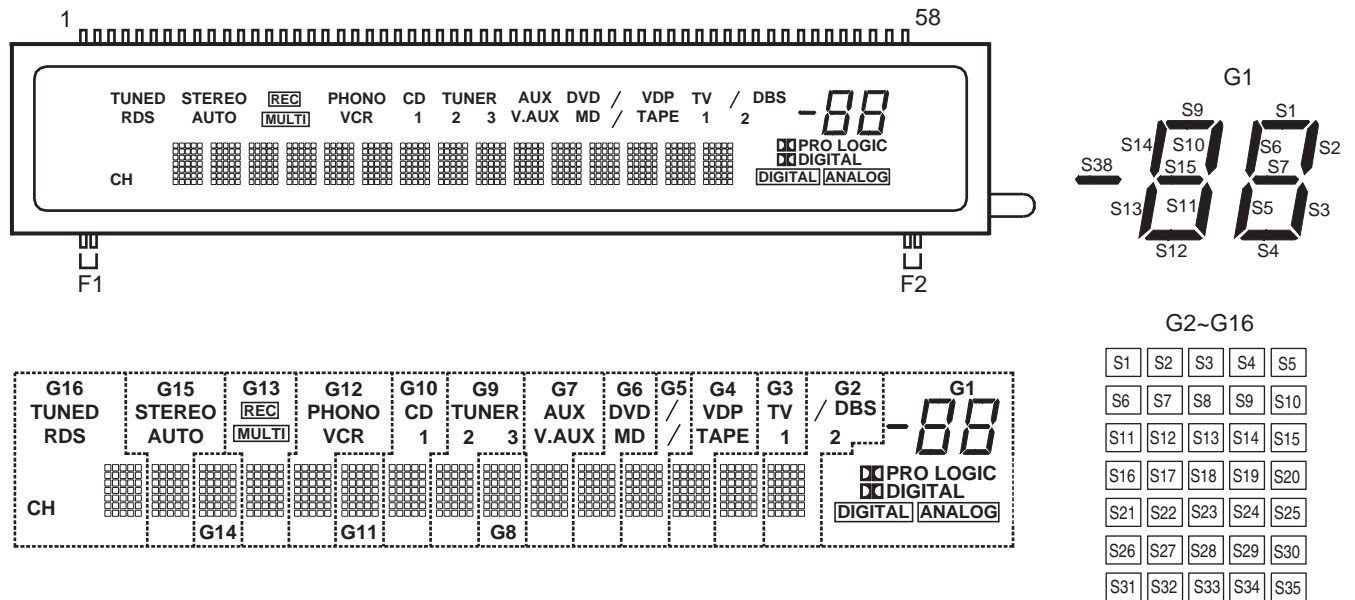
DAN202K



DAP202K



● FL DISPLAY CM1690 (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~G16		G1	G2~G16		G1	G2~G16		G1	G2~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	DIGITAL	S17	S26	—	S26	S35	—	S35
S9	S9	S9	S18	PRO LOGIC	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.AUX	—	2	1	—	VCR	MULTI	—	AUTO	RDS
S38	S38	DBS	—	—	—	—	—	—	3	—	—	—	—	—	—	CH



PRINTED WIRING BOARDS

1 2 3 4 5 6 7 8

1U-3323 AUDIO / DSP P.W.B. UNIT Ass'y  
COMPONENT SIDE

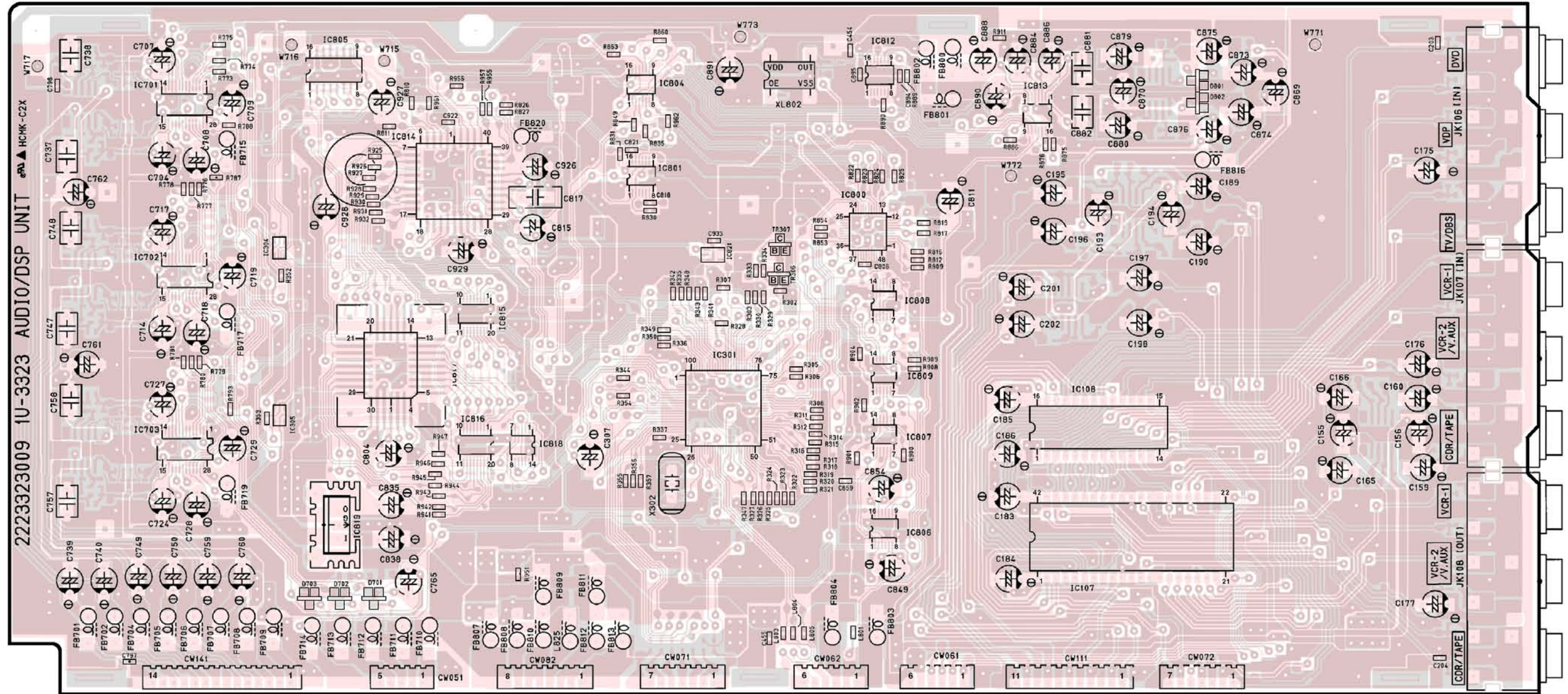
A

B

C

D

E





1 2 3 4 5 6 7 8

FOIL SIDE

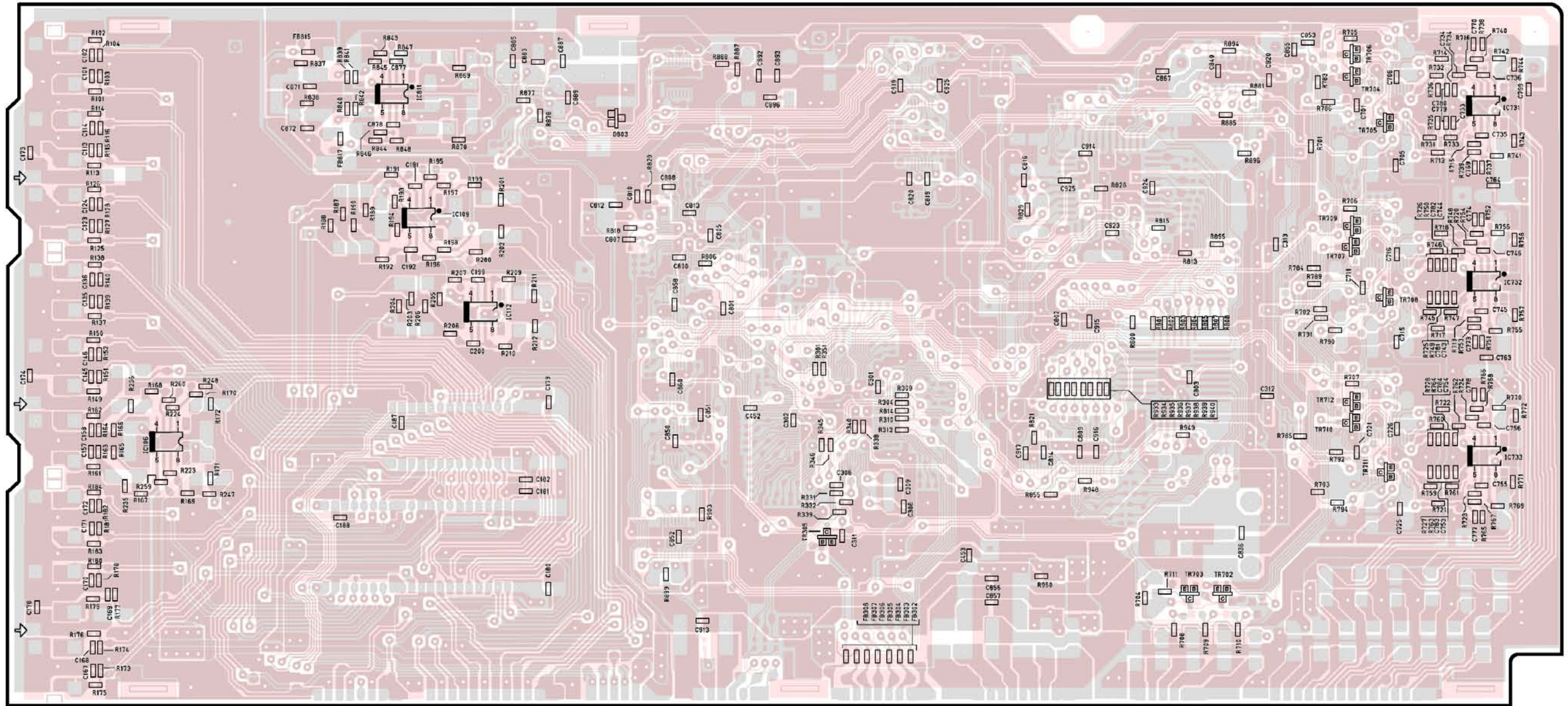
A

B

C

D

E





1 2 3 4 5 6 7 8

1U-3233 EXT. IN P.W.B. UNIT Ass'y  
COMPONENT SIDE

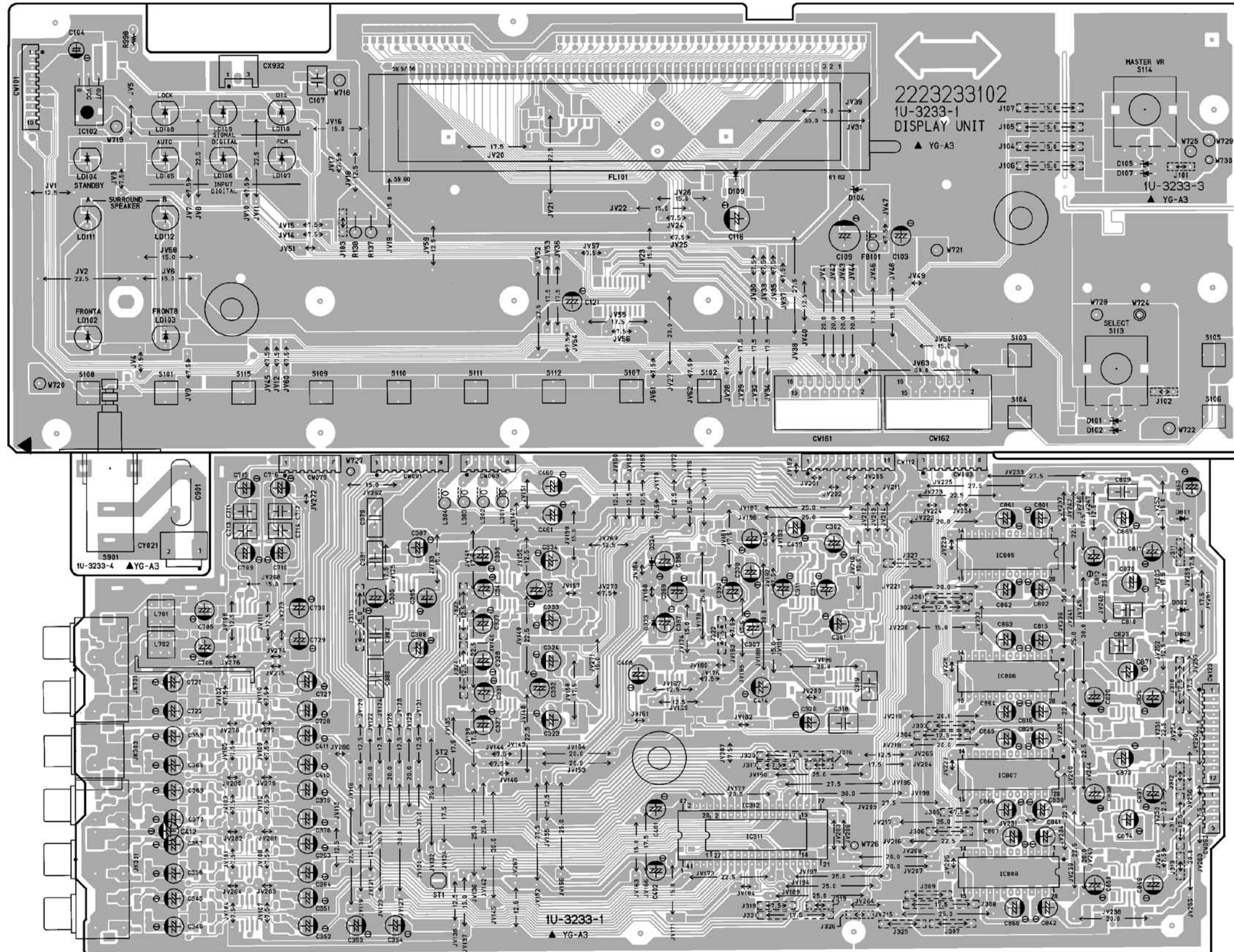
A

B

C

D

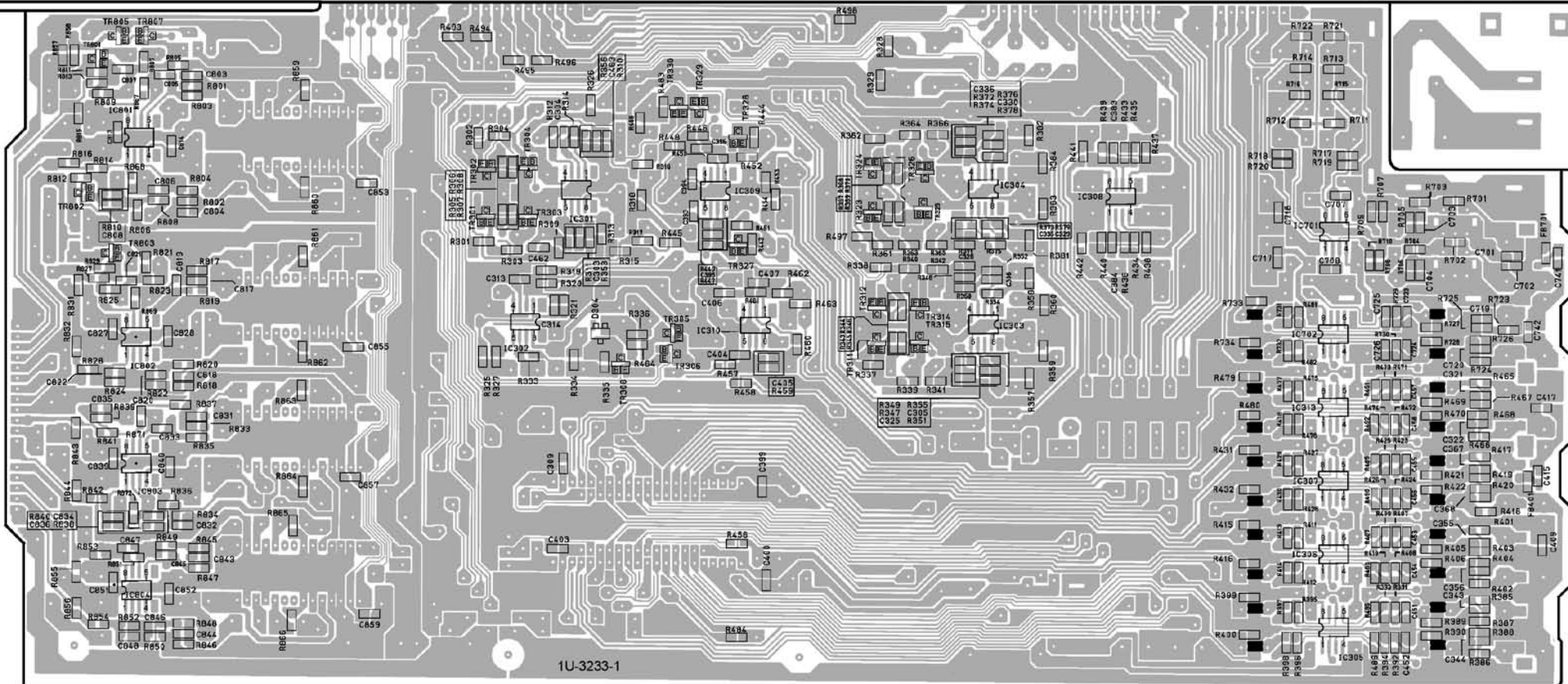
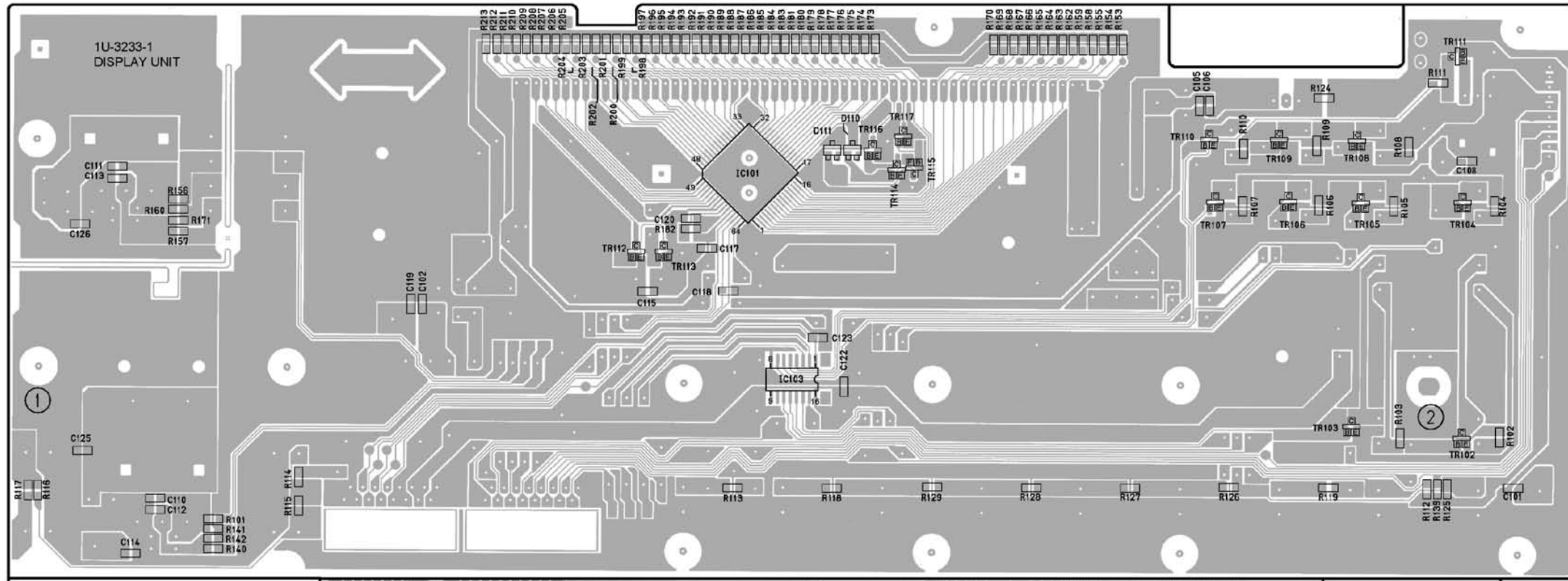
E





1 2 3 4 5 6 7 8

FOIL SIDE



A  
B  
C  
D  
E

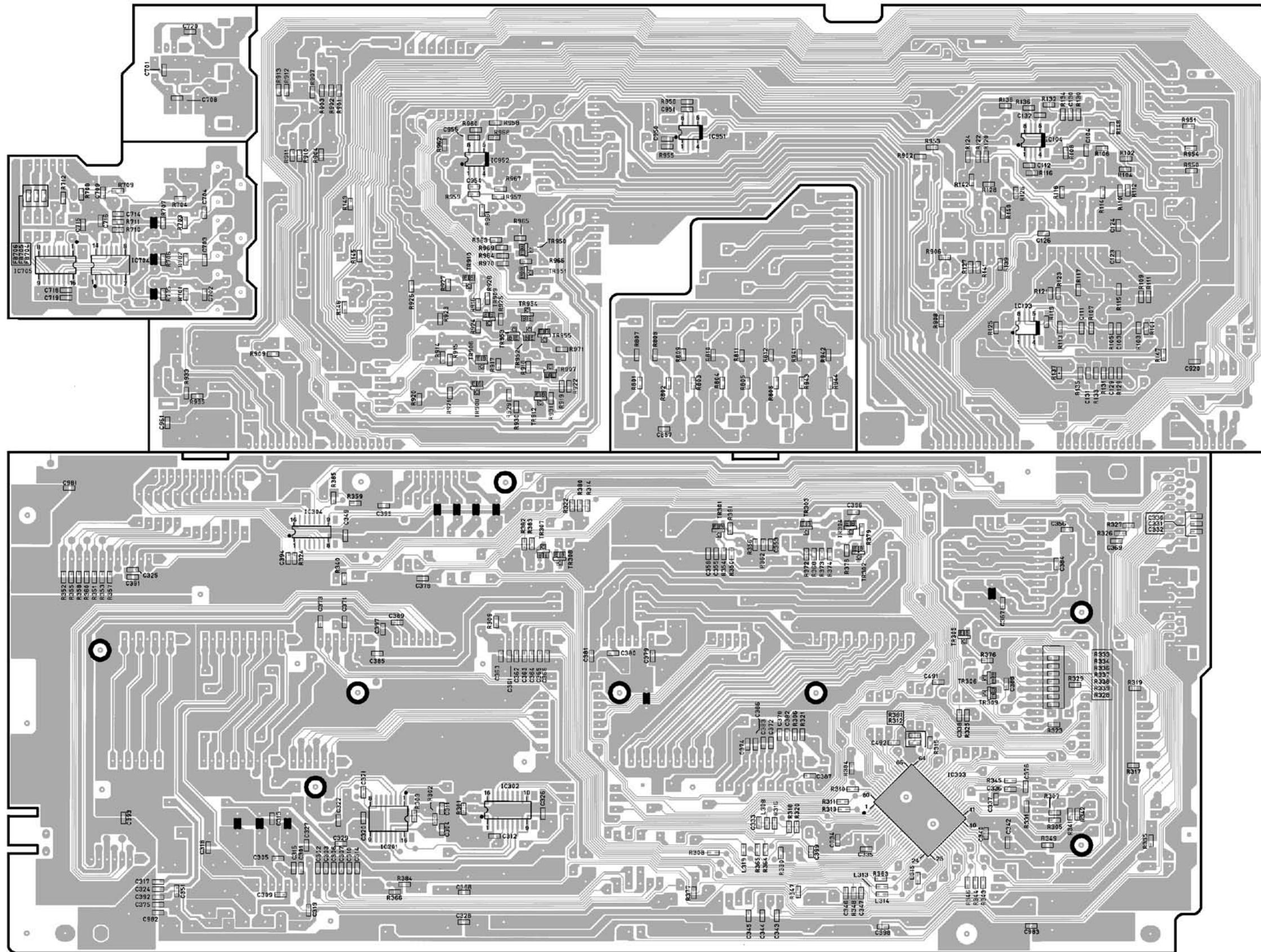






1 2 3 4 5 6 7 8

FOIL SIDE



A B C D E



1U-3235 REGULATOR P.W.B. UNIT Ass'y  
1U-3236 VOLTAGE SELECT P.W.B. UNIT Ass'y (Asia model & Hong Kong model only)  
COMPONENT SIDE

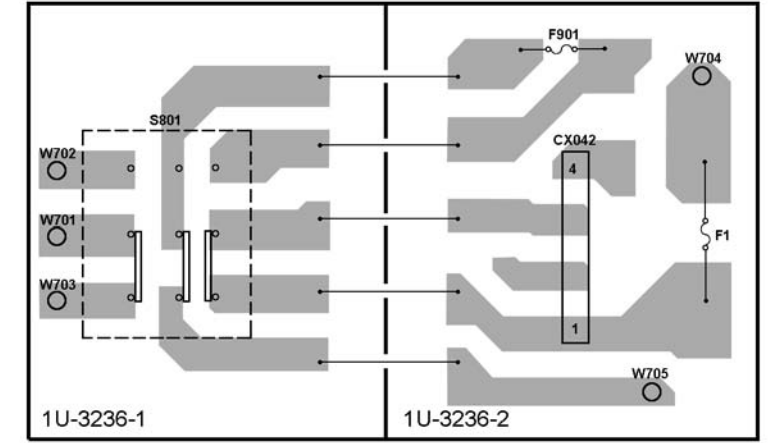
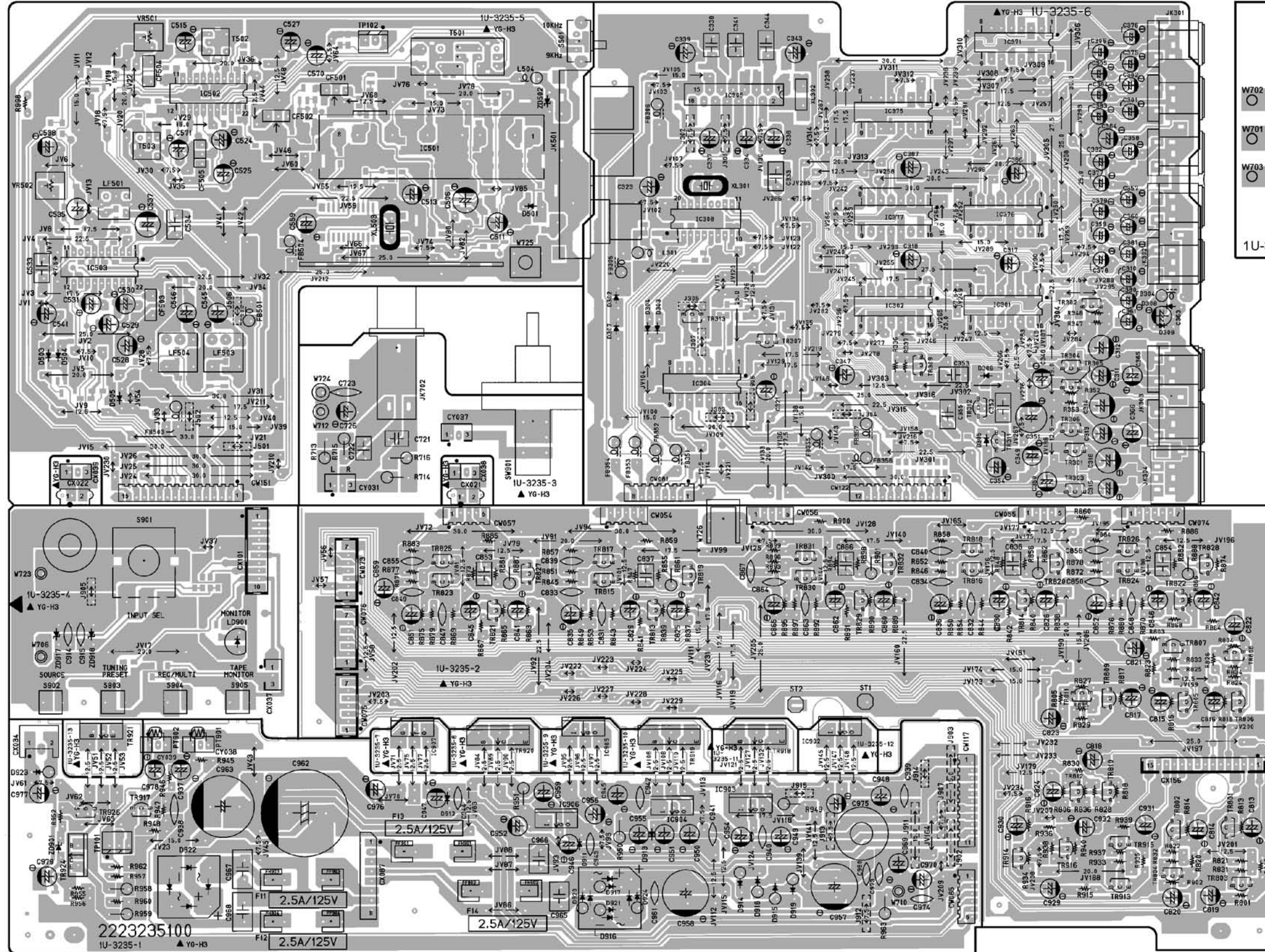
A

B

C

D

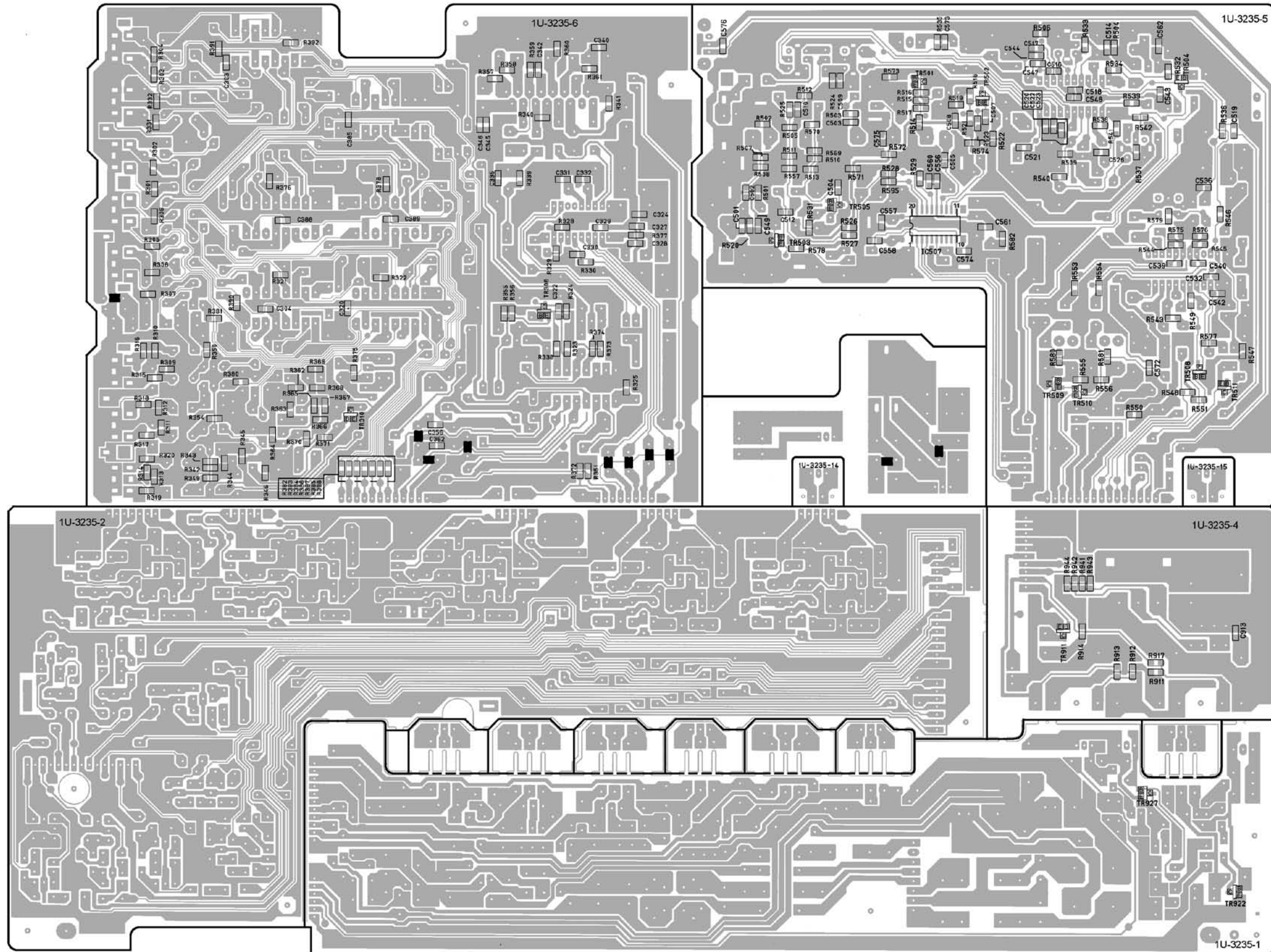
E





1 2 3 4 5 6 7 8

FOIL SIDE



A  
B  
C  
D  
E

1 2 3 4 5 6 7 8

1U-3232 POWER P.W.B. UNIT Ass'y  
COMPONENT SIDE

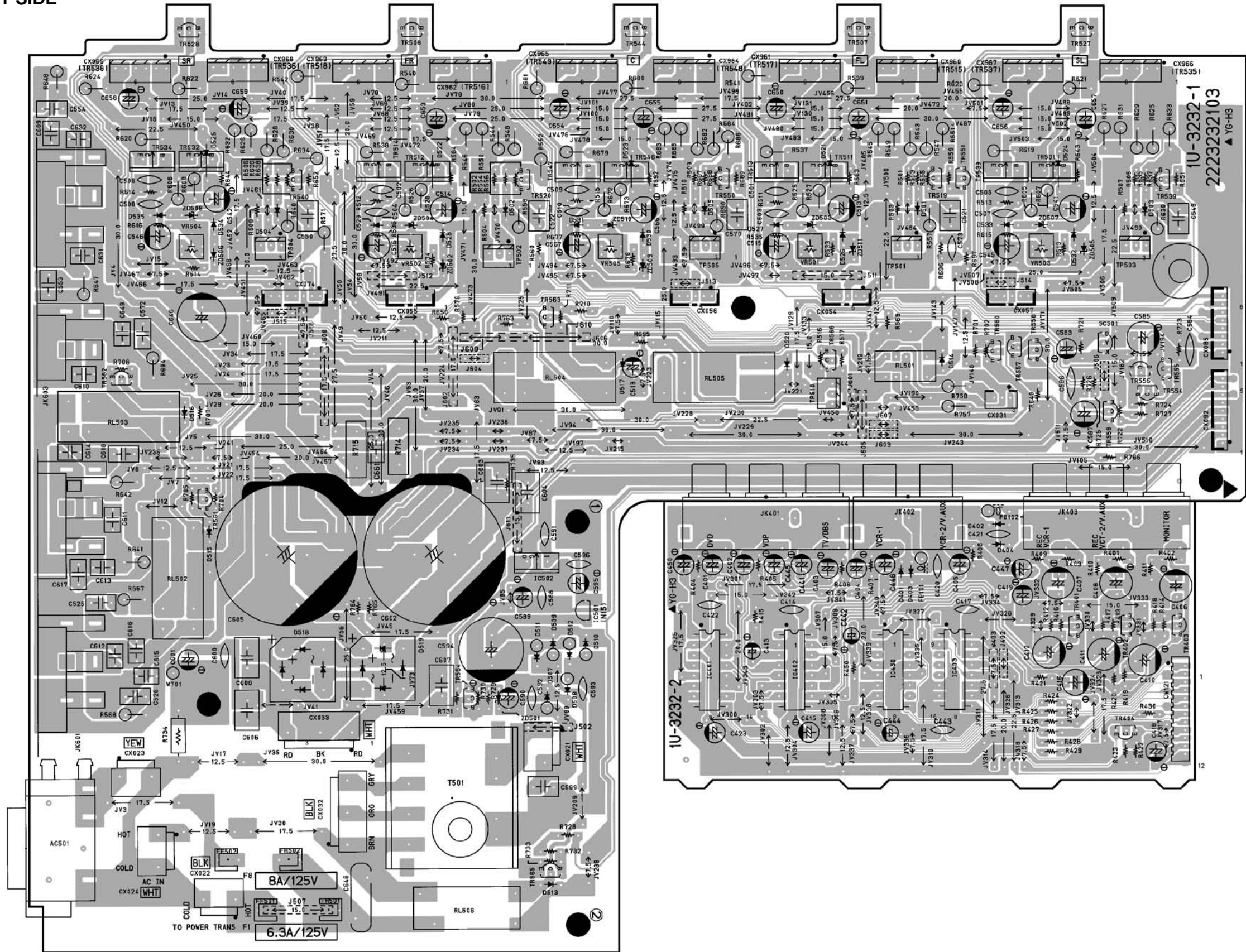
A

B

C

D

E



# 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 "I" (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  $\triangle$   have critical characteristics.  
 Use ONLY replacement parts recommended by the manufacturer.

## ● Resistors

Ex.: RN 14K 2E 182 G FR

Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : 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 : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming		

**\* Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm  
 ↑ ↑ ↑  
 Indicates number of zeros after effective number.  
 2-digit effective number.  
 • Units: ohm

1 R 2 ⇒ 1.2 ohm  
 ↑ ↑ ↑  
 1-digit effective number.  
 2-digit effective number, decimal point indicated by R.  
 • Units: ohm

## ● Capacitors

Ex.: CE 04W 1H 2R2 M BP

Type	Shape and performance	Dielectric strength	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 CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% -20% P : +100% -0% C : ±0.25pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming		

**\* Capacity (electrolyte only)**

2 2 2 ⇒ 2200μF  
 ↑ ↑ ↑  
 Indicates number of zeros after effective number.  
 2-digit effective number.  
 • Units: μF.

2 R 2 ⇒ 2.2μF  
 ↑ ↑ ↑  
 1-digit effective number.  
 2-digit effective number, decimal point indicated by R.  
 • Units: μF.

**\* Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022μF  
 ↑ ↑ ↑  
 (More than 2) — Indicates number of zeros after effective number.  
 2-digit effective number.  
 • Units: μF.

2 2 1 ⇒ 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-3323 AUDIO/DSP UNIT ASS'Y

Note: The symbols in the column "Remarks" indicate the following destinations.  
 E3: U.S.A. & Canada model  
 EU: U.S.A. model (AVR-981)  
 E2: Europe model  
 E1: Asia model  
 E1C: China model  
 E1H: Hong Kong model  
 EUT: Taiwan R.O.C. model

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
<b>SEMICONDUCTORS GROUP</b>							
IC106	263 1103 905	IC UPC4570G2-E1		R137,138	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT for E2,EUT
IC107	262 2545 006	IC TC9274N-011		R139,140	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT
IC108	262 2033 000	IC TC9273N-004		R149,150	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT for E3,EU,E1,E1C,E1H
IC109	263 1103 905	IC UPC4570G2-E1		R149,150	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT for E2,EUT
IC301	262 2840 002	IC TMP93CS40F-1B32		R151,152	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT
IC701~703	262 2747 901	IC AD1854JRSRL		R161,162	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT for E3,EU,E1,E1C,E1H
IC731~733	263 1103 905	IC UPC4570G2-E1		R161,162	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT for E2,EUT
IC800	262 2675 015	IC LC89055W-RA8		R163~166	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
IC801	262 2608 901	IC TC74VHC123AFT		R167,168	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
IC804	262 2609 900	IC SN74AHC157PW		R169,170	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
IC805	262 2284 901	IC TC74HCT157AF(TP1)		R171,172	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
IC806	262 2608 901	IC TC74VHC123AFT		R173,174	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT
IC807,808	262 2519 906	IC SN74LV00APW-EL2		R175,176	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
IC809	262 2557 900	IC SN74LV14APW-EL2		R177,178	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT
IC811	263 0934 900	IC BA4510F-E2		R179,180	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
IC812	262 2781 909	IC SN74LV4040APW-EL2		R181,182	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT
IC813	262 2772 905	IC AK5353		R183,184	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
IC814	262 2657 907	IC CS492604-CLR		R187~190	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
IC815,816	262 2660 907	IC SN74AHC574PW		R191,192	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
IC817	262 2750 901	IC AD1854JRSRL		R195,196	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
IC819	263 1048 002	IC BA033T		R197~200	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
IC821	262 2685 908	IC SN74AHCT1G08DBV		R201,202	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
TR305	269 0082 902	Transistor DTC114EKT96		R223,224	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR702	269 0082 902	Transistor DTC114EKT96		R301,302	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
TR703~712	269 0083 901	Transistor DTA114EKT96		R304	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
D701~703	276 0560 901	Diode DAN202KT146		R305~309	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
<b>RESISTORS GROUP</b>							
R101,102	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT for E3,EU,E1,E1C,E1H	R311~328	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R101,102	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT for E2,EUT	R331	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R103,104	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT	R334	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R113,114	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT for E3,EU,E1,E1C,E1H	R335,336	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R113,114	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT for E2,EUT	R337	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT
R115,116	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT	R338	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R125,126	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT for E3,EU,E1,E1C,E1H	R342	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R125,126	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT for E2,EUT	R345,346	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R127,128	247 2015 964	Carbon chip 2.7 Mohm 1/16W	RM73B--275KT	R349~351	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R137,138	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT for E3,EU,E1,E1C,E1H	R352,353	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
				R701~703	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
				R705~707	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
				R708~710	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
				R711	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
				R713,714	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT
				R715,716	247 2008 900	Carbon chip 1.8 kohm 1/16W	RM73B--182JT
				R717,718	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT
				R719,720	247 2008 900	Carbon chip 1.8 kohm 1/16W	RM73B--182JT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R721,722	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT	R875,876	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R723,724	247 2008 900	Carbon chip 1.8 kohm 1/16W	RM73B--182JT	R877	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R725-728	247 2009 967	Carbon chip 8.2 kohm 1/16W	RM73B--822JT	R881	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R731,732	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT	R885	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R733,734	247 2008 900	Carbon chip 1.8 kohm 1/16W	RM73B--182JT	R886	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R735,736	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT	R887	247 2002 964	Carbon chip 10 ohm 1/16W	RM73B--100JT for E3,EU
R739,740	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT	R887	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT for E1,E1C,E1H,E2,EUT
R741,742	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT	R888-890	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R743,744	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT	R894	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R745,746	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT	R895,896	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R747,748	247 2008 900	Carbon chip 1.8 kohm 1/16W	RM73B--182JT	R899	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
R749,750	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT	R901,902	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R753,754	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT	R903	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
R755,756	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT	R904	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R757,758	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT	R909	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R759,760	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT	R925-948	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R761,762	247 2008 900	Carbon chip 1.8 kohm 1/16W	RM73B--182JT	R951	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R763,764	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT	R955-957	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R767,768	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT	R962	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R769,770	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT	<b>CAPACITORS GROUP</b>			
R771,772	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT	C101,102	257 0507 976	Ceramic chip 330 pF/50V	CC73CH1H331JT for E2,EUT
R773-781	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C113,114	257 0507 976	Ceramic chip 330 pF/50V	CC73CH1H331JT for E2,EUT
R783-794	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C123,124	257 0507 976	Ceramic chip 330 pF/50V	CC73CH1H331JT for E2,EUT
R800-805	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C135,136	257 0507 976	Ceramic chip 330 pF/50V	CC73CH1H331JT for E2,EUT
R806	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT	C145,146	257 0507 976	Ceramic chip 330 pF/50V	CC73CH1H331JT for E2,EUT
R807,808	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C157,158	257 0507 976	Ceramic chip 330 pF/50V	CC73CH1H331JT for E2,EUT
R810,811	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C159,160	254 4524 985	Electrolytic 10µF/50V	CE04W1H100MT SMG/RE3
R813	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C165,166	254 4524 985	Electrolytic 10µF/50V	CE04W1H100MT SMG/RE3
R814	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	C167-172	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT
R815	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C173,174	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
R816	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C178	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
R817	247 2009 967	Carbon chip 8.2 kohm 1/16W	RM73B--822JT	C187	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
R818	247 2008 955	Carbon chip 3 kohm 1/16W	RM73B--302JT	C189,190	254 4538 900	Electrolytic 10µF/16V	CE04W1C100MT SMG/RE3
R819	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT	C193,194	254 4524 943	Electrolytic 1µF/50V	CE04W1H010MT SMG/RE3
R820	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT	C195,196	254 4538 900	Electrolytic 10µF/16V	CE04W1C100MT SMG/RE3 for E3,EU,E1,E1C,E1H,EUT
R822-825	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT	C195,196	254 4538 942	Electrolytic 100µF/16V	CE04W1C101MT SMG/RE3 for E2
R826,827	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	C301,302	257 0511 920	Ceramic chip 0.047µF/50V	CK73F1H473ZT
R828	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C306	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104ZT
R829	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C307	254 4524 943	Electrolytic 1µF/50V	CE04W1H010MT SMG/RE3
R830	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT				
R831	247 2011 900	Carbon chip 33 kohm 1/16W	RM73B--333JT				
R835	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT				
R837-840	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)				
R841,842	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT				
R843,844	247 2010 901	Carbon chip 12 kohm 1/16W	RM73B--123JT				
R847,848	247 2009 938	Carbon chip 6.2 kohm 1/16W	RM73B--622JT				
R849	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R854,855	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R860	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT				
R863	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT				
R869,870	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT				



Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C311~313	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT	C849	254 4524 930	Electrolytic 0.47μF/50V	CE04W1HR47MT SMG/RE3
C452,453	257 0511 920	Ceramic chip 0.047μF/50V	CK73F1H473ZT	C850~852	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C701	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C854	254 4524 930	Electrolytic 0.47μF/50V	CE04W1HR47MT SMG/RE3
C704	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3	C856~860	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C705,706	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C869,870	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3
C707,708	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3	C871,872	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C709	254 4536 931	Electrolytic 220μF/10V	CE04W1A221MT SMG/RE3	C873~876	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
C711	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C877,878	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT
C714	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3	C879,880	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
C715,716	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C881,882	255 1264 940	Mylar film 2200pF/50V	CQ93M1H222JT(B)
C717,718	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3	C883	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C719	254 4536 931	Electrolytic 220μF/10V	CE04W1A221MT SMG/RE3	C884	254 4522 903	Electrolytic 4.7μF/35V	CE04W1V4R7MT SMG/RE3
C721	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C885	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C724	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3	C886	254 4522 903	Electrolytic 4.7μF/35V	CE04W1V4R7MT SMG/RE3
C725,726	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C887	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C727,728	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3	C888	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
C729	254 4536 931	Electrolytic 220μF/10V	CE04W1A221MT SMG/RE3	C889	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C733~736	257 0507 918	Ceramic chip 180pF/50V	CC73CH1H181JT	C890	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
C737,738	255 1264 940	Mylar film 2200pF/50V	CQ93M1H222JT(B)	C891	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT SMG/RE3
C739,740	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3	C892	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C743~746	257 0507 918	Ceramic chip 180pF/50V	CC73CH1H181JT	C893	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C747,748	255 1264 940	Mylar film 2200pF/50V	CQ93M1H222JT(B)	C894,895	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C749,750	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3	C913	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C753~756	257 0507 918	Ceramic chip 180pF/50V	CC73CH1H181JT	C915,916	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C757,758	255 1264 940	Mylar film 2200pF/50V	CQ93M1H222JT(B)	C919,920	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C759,760	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3	C922~925	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C761,762	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3	C926~929	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3
C763,764	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C933	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C769,770	257 0508 933	Ceramic chip 560 pF/50V	CC73CH1H561JT	FB715	253 1180 921	Ceramic 1000pF/50V	CK45B1H102KT for E1,E1C,E1H,E2,EUT
C773,774	257 0508 933	Ceramic chip 560 pF/50V	CC73CH1H561JT	FB717	253 1180 921	Ceramic 1000pF/50V	CK45B1H102KT for E1,E1C,E1H,E2,EUT
C777~784	257 0508 933	Ceramic chip 560 pF/50V	CC73CH1H561JT	FB719	253 1180 921	Ceramic 1000pF/50V	CK45B1H102KT for E1,E1C,E1H,E2,EUT
C800~803	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT				
C804	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3				
C805,806	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT				
C807	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT				
C808	257 0011 996	Ceramic chip 0.1μF/25V	CK73B1E104KT				
C809	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT				
C810	257 0501 901	Ceramic chip 0.01μF/50V	CK73B1H103KT (1608)				
C811	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3				
C812,813	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT				
C815	254 4524 956	Electrolytic 2.2μF/50V	CE04W1H2R2MT SMG/RE3				
C817	256 1059 912	Metalized 0.22μF/50V	CF93A1H224JT (JL)				
C818	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT				
C819	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT				
C820	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104ZT				
C821	257 0507 976	Ceramic chip 330 pF/50V	CC73CH1H331JT				
C825	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT				
C835	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3				
C838	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3				
C840	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103ZT				

1U-3232 POWER UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	
<b>OTHER PARTS GROUP</b>					<b>SEMICONDUCTORS GROUP</b>				
CW051	205 0885 008	5P connector socket (TUC-P)		1	IC401	262 2692 001	IC BU4052BC		
CW061,062	205 0942 019	6P connector socket (TUC-P)		2	IC402	263 0856 004	IC BA7625		
CW071,072	205 0942 022	7P connector socket (TUC-P)		2	IC403	262 2693 000	IC BU4053BC		
CW082	205 0885 095	8P connector socket (TUC-P)		1	IC450	263 0856 004	IC BA7625		
CW111	205 0885 066	11P connector socket (TUC-P)		1	△ IC501	268 0073 905	IC ICP-N15		
CW141	205 0885 011	14P connector socket (TUC-P)		1	IC502	263 0793 002	IC NJM7806FA(S)		
FB302-308	235 0130 903	Chip emifil (11A121)		7	TR401-404	271 0290 904	Transistor 2PA1015GR		
FB701,702	235 0049 900	Beads inductor		2	TR507,508	273 0454 908	Transistor 2SC1645S(B)		
FB704-714	235 0049 900	Beads inductor		11	TR511,512	274 0158 016	Transistor 2SD1763A(E)		
FB800,801	235 0049 900	Beads inductor		2	TR513,514	272 0115 011	Transistor 2SB1186A(E)		
FB803,804	235 0049 900	Beads inductor		2	TR519,520	273 0458 904	Transistor 2SC3200(BL)		
FB807-813	235 0049 900	Beads inductor		7	TR527,528	273 0454 908	Transistor 2SC1645S(B)		
FB815	235 0130 903	Chip emifil (11A121)		1	TR531,532	274 0158 016	Transistor 2SD1763A(E)		
FB816	235 0049 900	Beads inductor		1	TR533,534	272 0115 011	Transistor 2SB1186A(E)		
FB817	235 0130 903	Chip emifil (11A121)		1	TR539,540	273 0458 904	Transistor 2SC3200(BL)		
JK106-108	204 8513 010	6P pin jack (S-GND)		3	TR544	273 0454 908	Transistor 2SC1645S(B)		
L801	235 0130 903	Chip emifil (11A121)		1	TR546	274 0158 016	Transistor 2SD1763A(E)		
L803-805	235 0130 903	Chip emifil (11A121)		3	TR547	272 0115 011	Transistor 2SB1186A(E)		
X302	399 0532 902	Ceramic 12.5 MHz		1	TR550	273 0458 904	Transistor 2SC3200(BL)		
XL802	399 0575 008	Crystal 12.287 MHz		1	TR551	271 0131 924	Transistor 2SA988(E/F)		
					TR554	273 0429 904	Transistor 2SC3311A		
					TR555	271 0192 905	Transistor 2SA933S(S)		
					TR556,557	273 0429 904	Transistor 2SC3311A		
					TR558	271 0192 905	Transistor 2SA933S(S)		
					TR559-566	273 0429 904	Transistor 2SC3311A		
					D401-404	276 0432 903	Diode 1SS270A		
					D501-505	276 0432 903	Diode 1SS270A		
					D507-512	276 0704 903	Diode 1SR35-400A		
					D513-517	276 0432 903	Diode 1SS270A		
					D518,519	276 0305 001	Diode S4VB20		
					D520	276 0432 903	Diode 1SS270A		
					D526-535	276 0432 903	Diode 1SS270A		
					ZD501	276 0644 911	Zener diode MTZJ7.5A		
					ZD502-511	276 0634 905	Zener diode MTZJ3.3A		
					SC501	279 0016 904	Thyristor SF0R1A42		
<b>RESISTORS GROUP</b>					<b>RESISTORS GROUP</b>				
					R525-528	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)	
					R537,538	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS	
					R539-542	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS	
					R543-550	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)	
					R551,552	241 2379 987	Carbon film 1 kohm 1/4W(NB)	RD14B2E102JNBS	
					R557,558	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)	
					R567,568	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)	
					R571	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)	



Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R605-608	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)	C525,526	256 1058 939	Metalized 0.047 $\mu$ F/50V	CF93A1H473J (JL) for E2
R619,620	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS	C541,542	254 4525 913	Electrolytic 47 $\mu$ F/50V	CE04W1H470M(SMG/RE3)
R621-624	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS	C545,546	254 4527 982	Electrolytic 10 $\mu$ F/100V	CE04W2A100M(SMG/RE3)
R625-632	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)	C549,550	256 1058 971	Metalized 0.1 $\mu$ F/50V	CF93A1H104J (JL)
R633,634	241 2379 987	Carbon film 1 kohm 1/4W(NB)	RD14B2E102JNBS	C553,554	255 1265 978	Mylar film 0.022 $\mu$ F/50V	CQ93M1H223J(B) for E3,EU,E1,E1C,E1H,EUT
R639-642	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)	C553,554	256 1058 939	Metalized 0.047 $\mu$ F/50V	CF93A1H473J (JL) for E2
R647,648	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)	C566	254 4525 913	Electrolytic 47 $\mu$ F/50V	CE04W1H470M(SMG/RE3)
R672,673	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)	C567	254 4527 982	Electrolytic 10 $\mu$ F/100V	CE04W2A100M(SMG/RE3)
R679	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS	C570	256 1058 971	Metalized 0.1 $\mu$ F/50V	CF93A1H104J (JL)
R680,681	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS	C572	255 1265 978	Mylar film 0.022 $\mu$ F/50V	CQ93M1H223J(B) for E3,EU,E1,E1C,E1H,EUT
R682-685	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)	C572	256 1058 939	Metalized 0.047 $\mu$ F/50V	CF93A1H473J (JL) for E2
R686	241 2379 987	Carbon film 1 kohm 1/4W(NB)	RD14B2E102JNBS	C573	253 1181 904	Ceramic 0.01 $\mu$ F/50V	CK45F1H103Z
R690	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)	C583	254 4538 900	Electrolytic 10 $\mu$ F/16V	CE04W1C100M(SMG/RE3)
R694	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)	C584	253 9039 906	Ceramic 0.1 $\mu$ F/25V	CK45=1E104Z
R714,715	244 2671 927	Metal Oxide 0.1 ohm 2W	RS14B3D0R1JNBS(S)	C585	254 6190 906	Electrolytic 330 $\mu$ F/6.3V	CE04W0J331M (SRA)
R734	242 2009 001	Composition 2.2 Mohm 1/2W	RC05GF2H225K(UL) for E3,EU	C586	253 9039 906	Ceramic 0.1 $\mu$ F/25V	CK45=1E104Z
R757,758	244 2052 960	Metal oxide 220 ohm 1W	RS14B3A221JNBS(S)	C587	254 4533 947	Electrolytic 330 $\mu$ F/6.3V	CE04W0J331M(SMG/RE3)
VR501-505	211 6132 909	Semi fixed resistor 4.7 kohm	V06PB472	C589	254 4538 900	Electrolytic 10 $\mu$ F/16V	CE04W1C100M(SMG/RE3)
<b>CAPACITORS GROUP</b>				C590	254 4524 943	Electrolytic 1 $\mu$ F/50V	CE04W1H010M(SMG/RE3)
C401-405	254 4306 909	Electrolytic 4.7 $\mu$ F/50V	CE04W1H4R7M(SRE)	C592,593	253 1181 904	Ceramic 0.01 $\mu$ F/50V	CK45F1H103Z
C406-408	254 6190 906	Electrolytic 330 $\mu$ F/6.3V	CE04W0J331M (SRA)	C594	254 4403 721	Electrolytic 2200 $\mu$ F/25V	CE04W1E222MC (SMG)
C410	254 4302 974	Electrolytic 100 $\mu$ F/10V	CE04W1A101M(SRE)	C595	254 4524 943	Electrolytic 1 $\mu$ F/50V	CE04W1H010M(SMG/RE3)
C411,412	254 4299 906	Electrolytic 10 $\mu$ F/16V	CE04W1C100M(SRE)	C599	256 1058 971	Metalized 0.1 $\mu$ F/50V	CF93A1H104J (JL)
C413	254 4305 968	Electrolytic 1 $\mu$ F/50V	CE04W1H010M(SRE)	C601	254 4524 943	Electrolytic 1 $\mu$ F/50V	CE04W1H010M(SMG/RE3)
C414	253 1181 917	Ceramic 0.022 $\mu$ F/50V	CK45F1H223Z	C602	254 6216 709	Electrolytic 10000 $\mu$ F/63V	CE68W1J103MC(DL)
C415	254 4299 906	Electrolytic 10 $\mu$ F/16V	CE04W1C100M(SRE)	C605	254 6216 709	Electrolytic 10000 $\mu$ F/63V	CE68W1J103MC(DL)
C416	254 4302 974	Electrolytic 100 $\mu$ F/10V	CE04W1A101M(SRE)	C606-608	256 1042 903	Metalized 0.1 $\mu$ F/250V	CF93A2E104K
C417	253 1181 904	Ceramic 0.01 $\mu$ F/50V	CK45F1H103Z	C609	253 1181 904	Ceramic 0.01 $\mu$ F/50V	CK45F1H103Z
C418,419	254 4299 906	Electrolytic 10 $\mu$ F/16V	CE04W1C100M(SRE)	C610-612	255 1181 904	Ceramic 0.01 $\mu$ F/50V	CK45F1M103Z
C420	253 1181 904	Ceramic 0.01 $\mu$ F/50V	CK45F1H103Z	C613-616	255 1265 936	Mylar film 0.01 $\mu$ F/50V	CQ93M1H103J(B) for E2, EUT
C422	253 1181 917	Ceramic 0.022 $\mu$ F/50V	CK45F1H223Z	C617,618	255 1265 978	Mylar film 0.022 $\mu$ F/50V	CQ93M1H223J(B) for E3,EU,E1,E1C,E1H,EUT
C423	254 4299 906	Electrolytic 10 $\mu$ F/16V	CE04W1C100M(SRE)	C617,618	256 1058 939	Metalized 0.047 $\mu$ F/50V	CF93A1H473J (JL) for E2
C441	254 4306 909	Electrolytic 4.7 $\mu$ F/50V	CE04W1H4R7M(SRE)	C631,632	255 1265 936	Mylar film 0.01 $\mu$ F/50V	CQ93M1H103J(B) for E2, EUT
C442	254 4305 968	Electrolytic 1 $\mu$ F/50V	CE04W1H010M(SRE)	C646	254 4540 710	Electrolytic 470 $\mu$ F/63V	CE04W1J471MC(SMG/RE3)
C443	253 1181 917	Ceramic 0.022 $\mu$ F/50V	CK45F1H223Z	▲ C648	253 8014 702	Ceramic 0.01 $\mu$ F/400V(AC)	CK45F2GAC103MC
C444	254 4299 906	Electrolytic 10 $\mu$ F/16V	CE04W1C100M(SRE)	C649	255 1265 936	Mylar film 0.01 $\mu$ F/50V	CQ93M1H103J(B) for E2, EUT
C445-447	254 4306 909	Electrolytic 4.7 $\mu$ F/50V	CE04W1H4R7M(SRE)				
C450	254 4306 909	Electrolytic 4.7 $\mu$ F/50V	CE04W1H4R7M(SRE)				
C501,502	253 4543 905	Ceramic 220 pF/500V	CC45SL2H221J				
C505,506	253 4543 905	Ceramic 220 pF/500V	CC45SL2H221J				
C509	253 4543 905	Ceramic 220 pF/500V	CC45SL2H221J				
C513,514	254 4525 913	Electrolytic 47 $\mu$ F/50V	CE04W1H470M(SMG/RE3)				
C515,516	254 4527 982	Electrolytic 10 $\mu$ F/100V	CE04W2A100M(SMG/RE3)				
C521,522	256 1058 971	Metalized 0.1 $\mu$ F/50V	CF93A1H104J (JL)				
C525,526	255 1265 978	Mylar film 0.022 $\mu$ F/50V	CQ93M1H223J(B) for E3,EU,E1,E1C,E1H,EUT				

1U-3233 EXT. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty
<b>OTHER PARTS GROUP</b>				
△ AC501	203 3976 002	AC outlet (2P)	for E3,EU,EUT	1
CW121	205 0885 079	12P connector socket (TUC-P)		1
CX021	205 0581 001	2P VH connector base	for E2,E1,E1C,E1H,EUT	1
CX022	205 0768 002	2P VH connector base (BLK)		1
CX023	205 1093 006	2P VH connector base	for E2,E1	1
CX024	205 0581 001	2P VH connector base		1
CX031	205 0343 032	3P connector base (KR-PH)		1
CX032	205 0841 000	3P AC connector base (BK)	for E1,E1H	1
CX033	205 0825 000	3P AC connector base		1
CX054-057	205 0884 009	5P connector base (TUC-P)		4
CX074	205 0943 021	7P connector base (TUC-P)		1
CX085	205 0884 096	8P connector base (TUC-P)		1
CX092	205 0884 038	9P connector base (TUC-P)		1
CX960-969	205 1064 064	6P pin header (TXX)V		10
△ F1	206 1046 001	Fuse 6.3A UL 20mm	for E3,EU,EUT	1
△ F1	206 1015 074	Fuse 3.15A	for E2,E1C	1
△ F1	206 1036 011	Fuse 6.3A	for E1,E1H	1
△ F8	206 1046 014	Fuse 8A	for E3,EU,EUT	1
△ F8	206 1015 032	Fuse 2.5A	for E2,E1,E1C,E1H	1
FF501,502	202 0040 909	Fuse clip		2
FH501,502	202 0040 909	Fuse clip		2
JK401	204 8516 017	3P pin jack		1
JK402	204 8583 008	2P pin jack (video)		1
JK403	204 8516 017	3P pin jack		1
JK601	205 0472 026	8P SP terminal (EAEK)		1
JK603	205 1108 001	6P SP terminal (E3)		1
RL501	214 0200 001	Relay EC2-12N35		1
RL502-505	214 0195 006	Relay FTR-F1		4
RL506	214 0188 000	Relay VS-12MBNR-SM2(TV-8)		1
△ T501	233 6073 107	Power trans. (Mini)-E3	for E3,EU,EUT	1
△ T501	233 6058 025	Power trans. (Mini)-E2	for E2,E1C	1
△ T501	233 6278 009	Power trans. (Mini)-E1	for E1,E1H	1
TP501-505	205 0133 035	3P NH connector base		5
TP510	205 0133 035	3P NH connector base		1
	513 2585 074	Fuse label	for F8 for E2,E1,E1C,E1H	1
	513 2585 045	Fuse label	for F1 for E2,E1C	1
	513 2654 057	Fuse label	for F1 for E1,E1H	1
	415 0299 000	Condenser cover	for C648 for E2,E1,E1C,E1H	1

Ref. No.	Part No.	Part Name	Remarks
<b>SEMICONDUCTORS GROUP</b>			
IC101	262 2549 002	IC LC75721E	
IC102	499 0290 007	Remocon sensor GP1U271X	
IC103	262 2375 904	IC TC4094BF(TP1)	
IC302	263 1103 905	IC UPC4570G2-E1	
IC308-310	263 1103 905	IC UPC4570G2-E1	
IC311	262 1853 100	IC NJU7313AL	
IC701	263 1103 905	IC UPC4570G2-E1	
IC801-803	263 1103 905	IC UPC4570G2-E1	
IC805-807	262 2662 002	IC TC9459N	
TR102-110	269 0082 902	Transistor DTC114EKT96	
TR111	269 0083 901	Transistor DTA114EKT96	
TR112	269 0055 900	Transistor DTA144EKT96	
TR113-115	269 0054 901	Transistor DTC144EKT96	
TR116,117	269 0055 900	Transistor DTA144EKT96	
TR301-304	273 0414 906	Transistor 2SC3326(A/B)	
TR305	269 0055 900	Transistor DTA144EKT96	
TR306	269 0054 901	Transistor DTC144EKT96	
TR308	275 0100 902	Transistor 2SK771-5-TB	
TR311,312	273 0414 906	Transistor 2SC3326(A/B)	
TR314,315	273 0414 906	Transistor 2SC3326(A/B)	
TR323-326	273 0414 906	Transistor 2SC3326(A/B)	
TR327,328	275 0100 902	Transistor 2SK771-5-TB	
TR329	269 0054 901	Transistor DTC144EKT96	
TR330	269 0055 900	Transistor DTA144EKT96	
TR801-803	275 0100 902	Transistor 2SK771-5-TB	
TR805	269 0083 901	Transistor DTA114EKT96	
TR807	269 0054 901	Transistor DTC144EKT96	
D104	276 0644 937	Zener diode MTZJ9.1A T77	
D109	276 0432 903	Diode 1SS270A TE (TAPE)	
D110,111	276 0559 909	Diode DAP202KT146	
D304	276 0559 909	Diode DAP202KT146	
D323,324	276 0432 903	Diode 1SS270A TE (TAPE)	
D801-803	276 0432 903	Diode 1SS270A TE (TAPE)	
LD102-110	393 9434 906	LED SEL1210S	
<b>RESISTORS GROUP</b>			
R101	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R102-110	247 0007 903	Carbon chip 680 ohm 1/10W	RM73B--681JT
R111	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R112	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
R113	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R114	247 0006 917	Carbon chip 300 ohm 1/10W	RM73B--301JT	R373,374	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R115	247 0006 975	Carbon chip 510 ohm 1/10W	RM73B--511JT	R378,379	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R116	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R381,382	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R117,118	247 0008 957	Carbon chip 3 kohm 1/10W	RM73B--302JT	R385,386	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R124	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT				for E3,EU,E1,E1C,E1H
R125	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R385,386	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471JT
R126	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT				for E2,EUT
R127	247 0006 917	Carbon chip 300 ohm 1/10W	RM73B--301JT	R387,388	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275JT
R128	247 0006 975	Carbon chip 510 ohm 1/10W	RM73B--511JT	R391,392	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R129	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R395--398	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R139	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT				
R140	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	R401,402	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R141,142	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT				for E3,EU,E1,E1C,E1H
R153~155	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT	R401,402	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471JT
R156,157	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT				for E2,EUT
R158,159	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT	R403,404	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275JT
R160	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT	R407,408	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R162~170	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT	R411~414	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R171	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT	R417,418	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R173,174	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT				for E3,EU,E1,E1C,E1H
R175,176	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	R417,418	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471JT
R177~181	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT				for E2,EUT
R182	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT	R419,420	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275JT
R183~212	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT	R423,424	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
				R427~430	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R213	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	R433~438	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B--393JT
				R439,440	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470JT
R301~304	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT	R441,442	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT
R305~308	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333JT	R445	247 0010 987	Carbon chip 27 kohm 1/10W	RM73B--273JT
R309,310	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	R446,447	247 0010 945	Carbon chip 18 kohm 1/10W	RM73B--183JT
R311~316	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R448~450	247 0010 987	Carbon chip 27 kohm 1/10W	RM73B--273JT
R317,318	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	R451,452	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R319,320	247 0011 957	Carbon chip 51 kohm 1/10W	RM73B--513JT	R453,454	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT
R321	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	R455	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT
R325	247 0010 974	Carbon chip 24 kohm 1/10W	RM73B--243JT	R456	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R326	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	R457	247 0012 901	Carbon chip 82 kohm 1/10W	RM73B--823JT
R327	247 0010 974	Carbon chip 24 kohm 1/10W	RM73B--243JT	R458	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B--153JT
R328,329	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	R459	247 0011 915	Carbon chip 36 kohm 1/10W	RM73B--363JT
R333	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	R460	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822JT
R334	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	R461	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B--113JT
R336	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	R462	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R337~340	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT	R463	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT
R341,342	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R464	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
R343~346	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333JT	R481,482	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R347,348	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	R483	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
R349,350	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R485~490	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R354,355	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R493~498	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT
R357,358	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT				
R361~364	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT	R701,702	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R365,366	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT				for E3,EU,E1,E1C,E1H
R367~370	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333JT	R701,702	247 0007 974	Carbon chip 1.3 kohm 1/10W	RM73B--132JT
R371,372	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT				for E2,EUT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R703,704	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391JT	C110~113	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
R705,706	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT	C115	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
R707,708	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B--154JT	C117	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102KT
R709,710	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470JT	C120	257 0003 933	Ceramic chip 30pF/50V	CC73SL1H300JT
R711,712	247 0005 992	Carbon chip 240 ohm 1/10W	RM73B--241JT	C121	254 4193 905	Electrolytic 10μF/16V	CE04W1C100MT (SRA)
R713,714	247 0012 956	Carbon chip 130 kohm 1/10W	RM73B--134JT	C125	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
R715,716	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B--113JT	C301,302	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3
R717,718	247 0003 949	Carbon chip 22 ohm 1/10W	RM73B--220JT	C303~306	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--OR0KT
R719,720	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470JT	C307,308	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
R721,722	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C318	256 1058 984	Metalized 0.12μF/50V	CF93A1H124JT (JL)
R723,724	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	C319	256 1058 942	Metalized 0.056μF/50V	CF93A1H563JT (JL)
R723,724	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471JT for E2,EUT	C320	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
R725,726	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275JT	C323,324	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3
R729~732	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--OR0KT	C329,330	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--OR0KT
R801,802	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C333,334	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3
R803,804	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	C343,344	257 0005 986	Ceramic chip 330pF/50V	CC73SL1H331JT for E2,EUT
R805,806	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751JT	C355,356	257 0005 986	Ceramic chip 330pF/50V	CC73SL1H331JT for E2,EUT
R807,808	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682JT	C367,368	257 0005 986	Ceramic chip 330pF/50V	CC73SL1H331JT for E2,EUT
R809,810	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT	C379~382	256 1058 955	Metalized 0.068μF/50V	CF93A1H683JT (JL)
R811,812	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C387,388	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
R813,814	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--OR0KT	C389,390	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
R815,816	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	C395,396	257 0003 904	Ceramic chip 22pF/50V	CC73SL1H220JT
R817,818	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C397,398	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
R819,820	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	C405	257 0003 904	Ceramic chip 22pF/50V	CC73SL1H220JT
R821,822	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751JT	C408	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
R823	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682JT	C409	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
R824	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822JT	C412	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
R825	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT	C414	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
R827,828	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	C416	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
R829	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C459~461	254 4524 901	Electrolytic 0.1μF/50V	CE04W1H0R1MT SMG/RE3
R831,832	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	C703,704	257 0005 944	Ceramic chip 220pF/50V	CC73SL1H221JT
R833,834	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C705,706	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
R835,836	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	C707,708	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT
R837,838	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751JT	C709,710	254 4533 934	Electrolytic 220μF/6.3V	CE04W0J221MT SMG/RE3
R839,840	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT	C711,712	255 4199 999	Mylar film 0.024μF/50V	CQ92M1H243JT(MRZ)
R841,842	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	C713,714	255 1265 907	Mylar film 6800pF/50V	CQ93M1H682JT(B)
R843,844	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	C715,716	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
R857	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT	C719,720	257 0005 986	Ceramic chip 330pF/50V	CC73SL1H331JT for E2,EUT
R858	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	C725,726	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--OR0KT
R859~864	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C729,730	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
R867~869	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C741,742	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
R871,872	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT	C801,802	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
<b>CAPACITORS GROUP</b>				C809,810	255 1265 923	Mylar film 8200pF/50V	CQ93M1H822JT(B)
C102	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT	C815,816	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
C103	254 4193 905	Electrolytic 10μF/16V	CE04W1C100MT (SRA)				
C104	254 4196 944	Electrolytic 1μF/50V	CE04W1H010MT (SRA)				
C107	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT (JL)				
C109	254 4196 999	Electrolytic 22μF/50V	CE04W1H220MT (SRA)				

## 1U-3321 CONTROL UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks
C823	255 1265 923	Mylar film 8200pF/50V	CQ93M1H822JT(B)		<b>SEMICONDUCTORS GROUP</b>			
C829,830	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3		IC102	262 2616 003	IC TC9184AP	
C837,838	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3		IC103,104	263 1103 905	IC UPC4570G2-E1	
C860	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3		IC301	262 1701 906	IC SAA6579T-T	for E2
C861,862	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3 for E3,EU,E1,E1C,E1H,EUT		IC302	262 1929 908	IC LC7074M-TE-R	for E2
C861,862	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3 for E2		IC303	262 2839 000	IC TMP88CU74F-1B28	
C863~866	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3		IC304	263 1040 903	IC BU4094BCF-E2	
C869,870	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3 for E3,EU,E1,E1C,E1H,EUT		IC701~703	269 0178 007	Optical connector GP1F37R1	
C869,870	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3 for E2		IC704	262 1205 907	IC TC74HCU04AF(TP1)	
C871	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3		IC705	262 2386 906	IC SN74HC151NS(TAPE)	
C873,874	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3		TR301	274 0163 904	Transistor 2SD601A	
<b>OTHER PARTS GROUP</b>					TR302	271 0299 905	Transistor 2SA1505Y-RTK	
CW052	205 0885 008	5P connector socket (TUC-P)		1	TR303	269 0054 901	Transistor DTC144EKT96	
CW063	205 0942 019	6P connector socket (TUC-P)		1	TR304	269 0082 902	Transistor DTC114EKT96	
CW079	205 0942 022	7P connector socket (TUC-P)		1	TR305	269 0055 900	Transistor DTA144EKT96	
CW083	205 0885 095	8P connector socket (TUC-P)		1	TR306	269 0054 901	Transistor DTC144EKT96	
CW091	205 0885 037	9P connector socket (TUC-P)		1	TR307	269 0083 901	Transistor DTA114EKT96	
CW101	205 1000 002	10P FJ connector plug		1	TR308,309	269 0054 901	Transistor DTC144EKT96	
CW112	205 0885 066	11P connector socket (TUC-P)		1	TR901	271 0131 924	Transistor 2SA988-T(E/F)	
CW123	205 0885 079	12P connector socket (TUC-P)		1	TR902	274 0160 907	Transistor 2SD2144STPU	
CW161,162	205 1055 028	16P connector base (TKC-V)		2	TR903	273 0429 904	Transistor 2SC3311A (TA)	
CX932	205 1121 033	3P connector base-L (5268)		1	TR904,905	271 0131 924	Transistor 2SA988-T(E/F)	
CY021	205 0581 001	2P VH connector base	for E2,E1,E1C, E1H,EUT	1	TR906~908	269 0083 901	Transistor DTA114EKT96	
JK701	204 8545 004	4P pin jack (GND)		1	TR910	269 0083 901	Transistor DTA114EKT96	
L701,702	235 9003 002	FTZ choke coil	for E2,EUT	2	TR911	271 0131 924	Transistor 2SA988-T(E/F)	
S101~112	212 5611 903	Tact switch		12	TR912	269 0083 901	Transistor DTA114EKT96	
S113	212 0373 000	Rotary encoder EC16B		1	D301	276 0432 903	Diode 1SS270A TE (TAPE)	for E2
S114	212 0422 003	Rotary encoder		1	D302	276 0432 903	Diode 1SS270A TE (TAPE)	
△S901	212 1030 009	Power switch (TV-5)	for E2,E1,E1C, 1E1H,EUT	1	D303	276 0634 905	Zener diode MTZJ3.3AT77	
ST2	205 0452 004	Style pin		1	D304	276 0432 903	Diode 1SS270A TE (TAPE)	
W724	203 0526 002	1P contact ass'y		1	D305,306	276 0704 903	Diode 1SR35-400A(T93X)	
	414 0799 109	Shield plate		1	D701	276 0432 903	Diode 1SS270A TE (TAPE)	
	203 0525 029	1P SIN cord ass'y	W726 to W727	1	D901~912	276 0432 903	Diode 1SS270A TE (TAPE)	
					D913	276 0704 903	Diode 1SR35-400A(T93X)	
					D914	276 0645 978	Zener diode MTZJ36A T77	
					D915	276 0704 903	Diode 1SR35-400A(T93X)	
					D916	276 0643 996	Zener diode MTZJ5.6A T77	
					D917	276 0704 903	Diode 1SR35-400A(T93X)	
					<b>RESISTORS GROUP</b>			
					R101,102	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT
					R103,104	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT
					R105,106	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT
					R107,108	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
					R109,110	247 2012 909	Carbon chip 82 kohm 1/16W	RM73B--823JT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R111,112	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R350	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R113	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT	R351-353	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
R114,115	247 2011 926	Carbon chip 39 kohm 1/16W	RM73B--393JT	R354	247 2013 908	Carbon chip 220 kohm 1/16W	RM73B--224JT
R116	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT	R355	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
R117,118	247 2014 907	Carbon chip 560 kohm 1/16W	RM73B--564JT	R356	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R119,120	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT	R357-360	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
R121,122	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT	R361,362	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R123,124	247 2010 985	Carbon chip 27 kohm 1/16W	RM73B--273JT	R363-365	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R125,126	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R366	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT for E1,E1H
R127,128	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT	R368	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R129-132	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R372,373	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R135,136	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R374	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R141-143	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R375	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBST
R145-148	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R376	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R303	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT for E2	R377	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT for E2
R304-307	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R378-383	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R308	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R384	247 2007 972	Carbon chip 1.3 kohm 1/16W	RM73B--132JT for E1,E1H
R309	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R385	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R310,311	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R701-703	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R312	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R705-707	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R313	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R708	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT
R314	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R709	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R315	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R710	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT
R316	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R711	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT
R318	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R712	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R320	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R801-806	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT
R324-326	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R807-812	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT
R327	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R901-904	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT
R329	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R906	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R330	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R907	247 2014 907	Carbon chip 560 kohm 1/16W	RM73B--564JT
R331	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R908	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R333,334	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R910	247 2007 998	Carbon chip 1.6 kohm 1/16W	RM73B--162JT
R335	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT	R911	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B--223JT
R340-342	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R912	247 2008 971	Carbon chip 3.6 kohm 1/16W	RM73B--362JT
R343,344	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R913	247 2014 907	Carbon chip 560 kohm 1/16W	RM73B--564JT
R345	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R914	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT
R346	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R915	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R347	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT for E2	R916	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R347	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT for E1,E1H	R917	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT
R347	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608) for E1C,EUT	R918	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R348	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT for E3,EU	R919	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R348	247 2009 912	Carbon chip 5.1 kohm 1/16W	RM73B--512JT for E1,E1H	R920	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT
R348	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608) for E1C,EUT	R921	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R349	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R922	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
				R926	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT
				R927	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R928	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C348	254 4538 939	Electrolytic 47µF/16V	CE04W1C470MT SMG/RE3
R929	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT	C349	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
R930	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	C350	256 1058 984	Metalized 0.12µF/50V	CF93A1H124JT (JL)
R931	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C352	254 4522 903	Electrolytic 4.7µF/35V	CE04W1V4R7MT SMG/RE3
R932	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBST	C353	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
R933	247 2010 956	Carbon chip 20 kohm 1/16W	RM73B--203JT	C354	254 4533 921	Electrolytic 100µF/6.3V	CE04W0J101MT SMG/RE3
R934	244 2055 996	Metal oxide 1.2 kohm 1W(NB)	RS14B3A122JNBST(S)	C355	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
R935	247 2010 956	Carbon chip 20 kohm 1/16W	RM73B--203JT	C356	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
R939,940	244 2055 996	Metal oxide 1.2 kohm 1W(NB)	RS14B3A122JNBST(S)	C357	254 4250 783	Electrolytic 3300µF/6.3V	CE04W0J332MC(SME) for E3,EU
<b>CAPACITORS GROUP</b>				C357	259 0007 702	Back up cap. 8200 µF/5.5V	SB CAP==822=C for E2,E1,E1C,E1H,EUT
C101,102	254 4524 956	Electrolytic 2.2µF/50V	CE04W1H2R2MT SMG/RE3	C358	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C105,106	254 4524 969	Electrolytic 3.3µF/50V	CE04W1H3R3MT SMG/RE3	C359	254 4533 934	Electrolytic 220µF/6.3V	CE04W0J221MT SMG/RE3
C107,108	256 1058 942	Metalized 0.056µF/50V	CF93A1H563JT (JL)	C361	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT for E3,EU
C109,110	255 1265 907	Mylar film 6800pF/50V	CQ93M1H682JT(B)	C367	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
C111,112	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C375	257 0511 920	Ceramic chip 0.047µF/50V	CK73F1H473ZT
C113,114	255 1265 949	Mylar film 0.012µF/50V	CQ93M1H123JT(B)	C377	254 4538 900	Electrolytic 10µF/16V	CE04W1C100MT SMG/RE3
C115,116	255 1264 953	Mylar film 2700pF/50V	CQ93M1H272JT(B)	C382	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT for E2,E1,E1C,E1H,EUT
C117,118	254 4524 972	Electrolytic 4.7µF/50V	CE04W1H4R7MT SMG/RE3 for E3,EU,E1,E1C,E1H,EUT	C390	256 1058 971	Metalized 0.1µF/50V	CF93A1H104JT (JL)
C117,118	254 4538 939	Electrolytic 47µF/16V	CE04W1C470MT SMG/RE3 for E2	C393	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C119,120	255 1265 978	Mylar film 0.022µF/50V	CQ93M1H223JT(B)	C395	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT for E3,EU
C121,122	254 4524 972	Electrolytic 4.7µF/50V	CE04W1H4R7MT SMG/RE3	C397	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C303	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT for E1,E1C,E1H,E2,EUT	C398	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT
C304	257 0504 924	Ceramic chip 27pF/50V	CC73CH1H270JT for E2	C399	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C305	257 0511 920	Ceramic chip 0.047µF/50V	CK73F1H473ZT for E3,EU	C491	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT for E3,EU
C308	254 4524 956	Electrolytic 2.2µF/50V	CE04W1H2R2MT SMG/RE3 for E2	C701-704	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104ZT
C310	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C705-707	254 4538 939	Electrolytic 47µF/16V	CE04W1C470MT SMG/RE3
C311	257 0504 924	Ceramic chip 27pF/50V	CC73CH1H270JT for E2	C709	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104ZT
C312	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT for E2	C710	254 4524 969	Electrolytic 3.3µF/50V	CE04W1H3R3MT SMG/RE3
C315	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT for E1,E1C,E1H,E2,EUT	C714	257 0504 908	Ceramic chip 22pF/50V	CC73CH1H220JT
C316	254 4538 900	Electrolytic 10µF/16V	CE04W1C100MT SMG/RE3 for E2	C715,716	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
C321	257 0508 933	Ceramic chip 560pF/50V	CC73CH1H561JT for E2	C717	254 4538 900	Electrolytic 10µF/16V	CE04W1C100MT SMG/RE3
C323	254 4538 900	Electrolytic 10µF/16V	CE04W1C100MT SMG/RE3 for E2	C718,719	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
C325	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT for E3,EU	C857	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT
C339	254 4536 957	Electrolytic 470µF/10V	CE04W1A471MT SMG/RE3	C858	254 4524 943	Electrolytic 1µF/50V	CE04W1H010MT SMG/RE3
C340	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104ZT	C901	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103ZT(DD-3)
C341	254 4538 939	Electrolytic 47µF/16V	CE04W1C470MT SMG/RE3	C902	254 4524 956	Electrolytic 2.2µF/50V	CE04W1H2R2MT SMG/RE3
C342	257 0511 920	Ceramic chip 0.047µF/50V	CK73F1H473ZT	C903	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103ZT(DD-3)
				C909	254 4524 943	Electrolytic 1µF/50V	CE04W1H010MT SMG/RE3
				C911	254 4527 908	Electrolytic 0.1µF/100V	CE04W2A0R1MT SMG/RE3
				C912	254 4524 985	Electrolytic 10µF/50V	CE04W1H100MT SMG/RE3
				C913,914	254 4524 901	Electrolytic 0.1µF/50V	CE04W1H0R1MT SMG/RE3
				C916-918	254 4524 901	Electrolytic 0.1µF/50V	CE04W1H0R1MT SMG/RE3

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C919	254 4522 958	Electrolytic 100µF/35V	CE04W1V101MT SMG/RE3	<b>OTHER PARTS GROUP</b>				
C920	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT	CW064	205 0942 019	6P connector socket (TUC-P)		1
C961	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103ZT	CW066	205 0942 019	6P connector socket (TUC-P)		1
C962	254 4524 943	Electrolytic 1µF/50V	CE04W1H010MT SMG/RE3	CW085	205 0885 095	8P connector socket (TUC-P)		1
				CW092	205 0885 037	9P connector socket (TUC-P)		1
				CW116	205 0885 066	11P connector socket (TUC-P)		1
				CW124	205 0885 079	12P connector socket (TUC-P)		1
				CW156	205 0885 040	15P connector socket (TUC-P)		1
				CX051,052	205 0884 009	5P connector base (TUC-P)		2
				CX061~066	205 0943 018	6P connector base (TUC-P)		6
				CX071,072	205 0943 021	7P connector base (TUC-P)		2
				CX073	205 1000 015	7P FJ connector plug		1
				CX075,076	205 1000 015	7P FJ connector plug		2
				CX079	205 0943 021	7P connector base (TUC-P)		1
				CX081~083	205 0884 096	8P connector base (TUC-P)		3
				CX091	205 0884 038	9P connector base (TUC-P)		1
				CX111,112	205 0884 067	11P connector base (TUC-P)		2
				CX116,117	205 0884 067	11P connector base (TUC-P)		2
				CX121~124	205 0884 070	12P connector base (TUC-P)		4
				CX141	205 0884 012	14P connector base (TUC-P)		1
				CX151	205 0884 041	15P connector base (TUC-P)		1
				CX161,162	205 1056 027	16P connector socket TKC-V		2
				FB304,305	235 0049 900	Beads inductor		2
				FB704~706	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	3
				JK701	204 8593 001	1P pin jack (OR,NI)		1
				JK801	204 8543 006	6P pin jack		1
				L308	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT	1
				L313~315	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT	3
				L319	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT	1
				L702	235 0060 918	Inductor 4.7µH		1
				L703	235 0060 905	Inductor 2.2µH		1
				L704,705	235 0060 918	Inductor 4.7µH		2
				RL901	214 0200 001	Relay EC2-12N35		1
				ST4,5	205 0452 004	Style pin		2
				W708	205 1034 010	M3 Screw terminal		1
				X301	399 0178 007	Crystal 4.332 MHz	for E2	1
				XL301	399 0191 903	Ceramic 4.00 MHz	for E2	1
				XL302	399 0532 902	Ceramic 12.5 MHz		1
					203 0438 080	1P SIN con ass'y	W733 to W734	1
					203 0438 093	1P SIN con ass'y	W731 to W732	1



## 1U-3235 REGULATOR UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
<b>SEMICONDUCTORS GROUP</b>				<b>RESISTORS GROUP</b>			
IC301	263 0857 003	IC BA7626		D501	276 0432 903	Diode 1SS270A TE (TAPE)	
IC302	263 0856 004	IC BA7625		D503~505	276 0432 903	Diode 1SS270A TE (TAPE)	
IC304	262 2067 005	IC MC74HC4053N		D911~913	276 0432 903	Diode 1SS270A TE (TAPE)	
IC305	263 0682 003	IC NJM2229S		D914,915	276 0548 910	Diode DSM1D2(TYPE-3)	
IC308	262 2311 007	IC M35015-***SP		D917~921	276 0548 910	Diode DSM1D2(TYPE-3)	
IC371	262 2692 001	IC BU4052BC		D922	276 0305 001	Diode S4VB20	
IC375	262 2692 001	IC BU4052BC		D924	276 0548 910	Diode DSM1D2(TYPE-3)	
IC376	263 0857 003	IC BA7626		ZD502	276 0644 937	Zener diode MTZJ9.1A T77	
IC377	263 0856 004	IC BA7625		LD901	393 9408 903	LED SEL-4214S	
IC501	216 0102 008	Front end	for E3,EU,E1,E1C,E1H,EUT	PT901	279 0034 054	Thermistor PTH9M04BC222TS2F333	
IC501	216 9013 004	FM front end (U) S	for E2	<b>RESISTORS GROUP</b>			
IC502	263 0891 001	IC LA1265(S)		R301~308	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750JT
IC503	263 0439 007	IC LA3401		R309~314	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT
IC507	262 2450 900	IC LC72131M-TLM		R315~320	247 0004 964	Carbon chip 68 ohm 1/10W	RM73B--680JT
IC902,903	263 0809 006	IC NJM7805FA(S)		R321,322	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750JT
IC904	263 0793 002	IC NJM7806FA(S)		R323	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
IC906	263 0801 004	IC NJM7812FA(S)		R324	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751JT
IC907	263 0641 002	IC NJM7912FA		R325	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
TR301~307	271 0290 904	Transistor 2PA1015GR(TAPE)		R328	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
TR309	271 0290 904	Transistor 2PA1015GR(TAPE)		R329	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182JT
TR310	269 0082 902	Transistor DTC114EKT96		R330	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B--100JT
TR311	273 0446 903	Transistor 2PC1815BL(TAPE)		R331,332	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750JT
TR312,313	271 0290 904	Transistor 2PA1015GR(TAPE)		R338	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT
TR501	275 0074 902	FET 2SK211-Y/GR(TE85L)	for E2	R339	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
TR502	273 0411 909	Transistor 2SC2996-Y(TE85L)		R340	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474JT
TR503,504	269 0083 901	Transistor DTA114EKT96		R341	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333JT
TR505	269 0184 907	Transistor KRA102S-RTK		R342,343	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT
TR508	269 0054 901	Transistor DTC144EKT96		R344	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224JT
TR509,510	269 0066 902	Transistor DTC323TKT96		R345	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822JT
TR511	269 0086 908	Transistor DTA114TKT96		R346	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT
TR801~814	273 0459 903	Transistor KTC2874B-AT		R349,350	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT
TR815~818	271 0094 919	Transistor 2SA970(BL)TPE2		R354~356	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT
TR819,820	273 0281 906	Transistor 2SC2705 (O)/(Y)TPE6		R357	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391JT
TR821,822	273 0459 903	Transistor KTC2874B-AT		R358	247 0007 987	Carbon chip 1.5 kohm 1/10W	RM73B--152JT
TR823~826	271 0094 919	Transistor 2SA970(BL)TPE2		R359	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT
TR827,828	273 0281 906	Transistor 2SC2705 (O)/(Y)TPE6		R360	247 0011 957	Carbon chip 51 kohm 1/10W	RM73B--513JT
TR829	273 0459 903	Transistor KTC2874B-AT		R361	247 0009 956	Carbon chip 7.5 kohm 1/10W	RM73B--752JT
TR830,831	271 0094 919	Transistor 2SA970(BL)TPE2		R362	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B--122JT
TR832	273 0281 906	Transistor 2SC2705 (O)/(Y)TPE6		R363	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221JT
TR911	269 0082 902	Transistor DTC114EKT96		R364	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT
TR917	273 0429 904	Transistor 2SC3311A (TA)		R365	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT
TR918~920	271 0262 000	Transistor 2SA1670(O/P/Y)		R366	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT
D302~309	276 0432 903	Diode 1SS270A TE (TAPE)		R367	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822JT
				R368	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473JT
				R369	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822JT
				R370	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R371	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R546	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B--393JT
R373	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT	R547	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT
R374-376	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750JT	R548	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT
R377	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R549	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT
R378	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750JT	R550	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562JT
R380,381	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	R551	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT
R382-388	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT	R553,554	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332JT
R390-392	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R555,556	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562JT for E3,EU,E1,E1C,E1H,EUT
R501	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B--100JT	R555,556	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332JT for E2
R502	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT for E2	R569	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562JT for E2
R503	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R570	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT for E2
R504-512	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R571-574	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R514	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	R575,576	247 0012 943	Carbon chip 120 kohm 1/10W	RM73B--124JT for E3,EU,E1,E1C,E1H,EUT
R515	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT	R575,576	247 0012 998	Carbon chip 200 kohm 1/10W	RM73B--204JT for E2
R516	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT for E3,EU,E1,E1C,E1H,EUT	R577	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223JT
R516	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331JT for E2	R578	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R517	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331JT for E2	R579-581	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT for E3,EU,E1,E1C,E1H,EUT
R518	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221JT	R582	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R519	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471JT	R595	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT
R520	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R713,714	244 2052 960	Metal oxide 220 ohm 1W(NB)	RS14B3A221JNBST(S)
R521	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT	R855,856	241 2397 943	Carbon film 330 ohm 1/4W	RD14B2E331JT(5) for E2
R522	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331JT	R861,862	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBST
R523	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B--122JT	R881,882	241 2397 943	Carbon film 330 ohm 1/4W	RD14B2E331JT(5) for E2
R524	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT	R887,888	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBST
R525	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R898	241 2397 943	Carbon film 330 ohm 1/4W	RD14B2E331JT(5) for E2
R526	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562JT	R901	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBST
R527-529	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT	R911	247 0006 917	Carbon chip 300 ohm 1/10W	RM73B--301JT
R531,532	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	R912	247 0006 975	Carbon chip 510 ohm 1/10W	RM73B--511JT
R533	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B--153JT	R913	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102JT
R534	247 0005 921	Carbon chip 120 ohm 1/10W	RM73B--121JT	R914	247 0007 903	Carbon chip 680 ohm 1/10W	RM73B--681JT
R535	247 0010 945	Carbon chip 18 kohm 1/10W	RM73B--183JT for E3,EU	R917	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201JT
R535	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B--393JT for E2,E1,E1C,E1H,EUT	R941,942	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101JT
R536	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT for E3,EU,E1,E1C,E1H,EUT	R943,944	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472JT
R536	247 0008 944	Carbon chip 2.7 kohm 1/10W	RM73B--272JT for E2	R949-951	241 2376 919	Carbon film 30 ohm 1/4W(NB)	RD14B2E300JNBST
R537	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683JT	R963	241 2375 907	Carbon film 10 ohm 1/4W(NB)	RD14B2E100JNBST
R538	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682JT	VR501	211 6132 925	Semi fixed resistor 10 kohm	V06PB103T
R539	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562JT	VR502	211 6132 983	Semi fixed resistor 100 kohm	V06PB104T
R540,541	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103JT				
R542,543	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332JT				
R544,545	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104JT for E3,EU,E1,E1C,E1H,EUT				
R544,545	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B--154JT for E2				

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
<b>CAPACITORS GROUP</b>				C507,508	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C301,302	254 4195 916	Electrolytic 4.7μF/35V	CE04W1V4R7MT (SRA)	C509	257 0002 947	Ceramic chip 12pF/50V	CC73SL1H120JT
C303,304	257 0012 982	Ceramic chip 0.022μF/50V	CK73F1H223ZT	C510	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C305,306	254 4195 916	Electrolytic 4.7μF/35V	CE04W1V4R7MT (SRA)	C511	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3
C310	254 4195 916	Electrolytic 4.7μF/35V	CE04W1V4R7MT (SRA)	C512	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C311	254 4533 934	Electrolytic 220μF/6.3V	CE04W0J221MT SMG/RE3	C513	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
C312	254 4533 950	Electrolytic 470μF/6.3V	CE04W0J471MT SMG/RE3	C514	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C313	254 4533 934	Electrolytic 220μF/6.3V	CE04W0J221MT SMG/RE3	C515	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3
C314	254 4533 950	Electrolytic 470μF/6.3V	CE04W0J471MT SMG/RE3	C516,517	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C315	254 4533 934	Electrolytic 220μF/6.3V	CE04W0J221MT SMG/RE3	C518	257 0010 984	Ceramic chip 0.047μF/50V	CK73B1H473KT
C316	254 4533 950	Electrolytic 470μF/6.3V	CE04W0J471MT SMG/RE3	C519	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E2
C317,318	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	C520	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT
C320	257 0012 982	Ceramic chip 0.022μF/50V	CK73F1H223ZT	C521-523	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C321	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3	C524	254 4524 930	Electrolytic 0.47μF/50V	CE04W1HR47MT SMG/RE3
C323	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3	C525	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3
C324	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	C526	257 0010 942	Ceramic chip 0.022μF/50V	CK73B1H223KT
C327-329	257 0003 946	Ceramic chip 33pF/50V	CC73SL1H330JT	C527	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3 for E3,EU
C330	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT	C527	254 4524 927	Electrolytic 0.33μF/50V	CE04W1HR33MT SMG/RE3 for E2,E1,E1C,E1H,EUT
C331	257 0002 921	Ceramic chip 10pF/50V	CC73SL1H100DT	C528	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3
C332	257 0002 947	Ceramic chip 12pF/50V	CC73SL1H120JT	C529	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
C333	255 1265 978	Mylar film 0.022μF/50V	CQ93M1H223JT(B)	C530	254 4524 914	Electrolytic 0.22μF/50V	CE04W1HR22MT SMG/RE3
C334	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT SMG/RE3	C531	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
C335	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT	C532	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C336	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	C533	256 1058 939	Metalized 0.047μF/50V	CF93A1H473JT (JL)
C337	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3	C534	256 1058 942	Metalized 0.056μF/50V	CF93A1H563JT (JL)
C338	255 1264 908	Mylar film 1000pF/50V	CQ93M1H102JT(B)	C535	254 3053 910	Electrolytic 22μF/16V	CE04D1C220MBPT (SME)
C339	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3	C536	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT for E3,EU,E1,E1C,E1H,EUT
C340	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	C537	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3 for E2
C341	255 1264 911	Mylar film 1200pF/50V	CQ93M1H122JT(B)	C538	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3
C342	257 0005 902	Ceramic chip 150pF/50V	CC73SL1H151JT	C539,540	257 0006 972	Ceramic chip 750pF/50V	CC73SL1H751JT for E3,EU
C343	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	C539,540	257 0005 986	Ceramic chip 330pF/50V	CC73SL1H331JT for E2
C344	256 1058 955	Metalized 0.068μF/50V	CF93A1H683JT (JL)	C539,540	257 0006 930	Ceramic chip 510pF/50V	CC73SL1H511JT for E1,E1C,E1H,EUT
C345	257 0008 941	Ceramic chip 470pF/50V	CK73B1H471KT	C541	254 4524 956	Electrolytic 2.2μF/50V	CE04W1H2R2MT SMG/RE3
C346	257 0009 940	Ceramic chip 3300pF/50V	CK73B1H332KT	C544	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C347	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3	C545,546	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
C348	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT SMG/RE3	C557,558	257 0002 963	Ceramic chip 15pF/50V	CC73SL1H150JT
C349,350	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT SMG/RE3	C559	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
C351	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT SMG/RE3	C561	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C352,353	256 1058 939	Metalized 0.047μF/50V	CF93A1H473JT (JL)	C562	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C354	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	C570	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT SMG/RE3
C355	256 1058 939	Metalized 0.047μF/50V	CF93A1H473JT (JL)	C571	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3
C356	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	C574	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101JT
C357-361	254 4195 916	Electrolytic 4.7μF/35V	CE04W1V4R7MT (SRA)	C575	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C362	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT	C576	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102KT for E1,E1H,E1C,E2,EUT
C363-366	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103ZT(DD-3)				
C375-384	254 4195 916	Electrolytic 4.7μF/35V	CE04W1V4R7MT (SRA)				
C385	257 0012 982	Ceramic chip 0.022μF/50V	CK73F1H223ZT				
C386,387	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3				
C388,389	257 0012 982	Ceramic chip 0.022μF/50V	CK73F1H223ZT				
C501,502	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102KT				
C503-505	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT				

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C721,722	255 1264 908	Mylar film 1000pF/50V	CQ93M1H102JT(B) for E2	<b>OTHER PARTS GROUP</b>				
C723	253 9039 906	Ceramic 0.1μF/25V	CK45=1E104ZT(DD-3)	CF501	261 0135 907	Ceramic filter MA8	for E3,EU,E1, E1C,E1H,EUT	1
C813~824	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT SMG/RE3	CF501	261 0146 006	Ceramic filter FMCFSK107M2-A	for E2	1
C825,826	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3 for E3,EU,E1,E1C,E1H,EUT	CF502	261 0136 906	Ceramic filter MS2G	for E3,EU,E1, E1C,E1H,EUT	1
C825,826	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT SMG/RE3 for E2	CF502	261 0146 006	Ceramic filter FMCFSK107M2-A	for E2	1
C829,830	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3	CF503	261 0079 005	Ceramic resonator CSB456F11		1
C831~834	253 1179 945	Ceramic 220pF/50V	CK45B1H221KT(DD-3)	CF504	261 0031 001	Ceramic filter BFU450C4		1
C835,836	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT SMG/RE3 for E3,EU,E1,E1C,E1H,EUT	CF505	261 0116 007	Ceramic filter SFU450B3		1
C835,836	254 4538 955	Electrolytic 220μF/16V	CE04W1C221MT SMG/RE3 for E2	CW054~057	205 0885 008	5P connector socket (TUC-P)		4
C837,838	255 1264 966	Mylar film 3300pF/50V	CQ93M1H332JT(B)	CW065	205 0942 019	6P connector socket (TUC-P)		1
C839,840	253 4482 901	Ceramic 33pF/500V	CC45SL2H330JT	CW073	205 1081 018	7P FJ connector base		1
C841,842	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3	CW074	205 0942 022	7P connector socket (TUC-P)		1
C845,846	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3	CW075,076	205 1081 018	7P FJ connector base		2
C847~850	253 1179 945	Ceramic 220pF/50V	CK45B1H221KT(DD-3)	CW081	205 0885 095	8P connector socket (TUC-P)		1
C851,852	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT SMG/RE3	CW117	205 0885 066	11P connector socket (TUC-P)		1
C853,854	255 1264 966	Mylar film 3300pF/50V	CQ93M1H332JT(B)	CW122	205 0885 079	12P connector socket (TUC-P)		1
C855,856	253 4482 901	Ceramic 33pF/500V	CC45SL2H330JT	CW151	205 0885 040	15P connector socket (TUC-P)		1
C859	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3	CX037	205 0343 032	3P connector base (KR-PH)	for E3,EU	1
C860	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3	CX087	205 1120 089	8P connector base (5267)		1
C862	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT SMG/RE3	CX101	205 1081 005	10P FJ connector base		1
C863,864	253 1179 945	Ceramic 220pF/50V	CK45B1H221KT(DD-3)	CX156	205 0884 041	15P connector base (TUC-P)		1
C865	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT SMG/RE3	CY031	205 0343 032	3P connector base (KR-PH)		1
C866	255 1264 966	Mylar film 3300pF/50V	CQ93M1H332JT(B)	CY037	205 0343 032	3P connector base (KR-PH)	for E3,EU	1
C867	253 4482 901	Ceramic 33pF/500V	CC45SL2H330JT	⚠ F11~14	206 1039 076	Fuse 2.5A	for E3,EU,EUT	4
C914,915	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103ZT(DD-3)	⚠ F11~14	206 1015 032	Fuse 2.5A	for E2,E1,E1C,E1H	4
C937	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT SMG/RE3	FB305,306	235 0049 900	Beads inductor		2
C938	253 9039 906	Ceramic 0.1μF/25V	CK45=1E104ZT(DD-3)	FF901~904	202 0040 909	Fuse clip		4
C939~941	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103ZT(DD-3)	FH901~904	202 0040 909	Fuse clip		4
C946~950	254 4541 939	Electrolytic 47μF/25V	CE04W1E470MT SMG/RE3	JK301	204 8415 011	3P S-terminal		1
C951,952	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	JK302,303	204 8414 012	2P S-terminal		2
C954,955	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	JK304	205 0902 004	1P S-terminal (SW)		1
C957,958	254 4406 702	Electrolytic 3300μF/16V	CE04W1C332MC(SMG)	JK501	205 0847 004	3P antenna terminal (PAL/F)		1
C959	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	JK702	204 8264 013	Head phone jack (NI)	for E3,EU,E2	1
C962	254 4403 705	Electrolytic 6800μF/25V	CE04W1E682MC(SMG)	JK702	204 8264 071	Headphone jack (gold)	for E1,E1C,E1H,EUT	1
C963	254 4403 718	Electrolytic 1000μF/25V	CE04W1E102MC (SMG)	L301	235 0060 963	Inductor 15μH		1
C965~968	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT (JL)	LF501	232 9010 009	Antibirdie filter	for E2	1
C975,976	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT SMG/RE3	LF503,504	232 0085 004	LPF	for E2	2
				S501	212 0408 001	Slide switch	for E1,E1H	1
				S901	212 0373 000	Rotary encoder EC16B		1

## 1U-3236 VOLTAGE SELECT UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
S902-905	212 5611 903	Tact switch		4	<b>OTHER PARTS GROUP</b>				
SW901	212 0420 005	1P push switch (non lock)	for E3,EU	1	CX042	205 0581 030	4P VH connector base	for E1,E1H	1
T501	231 2096 001	MW ant.-osc. coil		1	△ F901	206 1015 074	Fuse 3.15A	for E1,E1H	1
T502	231 2085 009	FM DET trans.		1	FF901	202 0040 909	Fuse clip	for E1,E1H	1
T503	231 1138 009	AM IFT		1	FH901	202 0040 909	Fuse clip	for E1,E1H	1
W712	203 0526 002	1P contact ass'y		1	△ S801	212 4810 006	Slide switch	for E1,E1H	1
XL301	399 0153 006	Crystal 14.32MHz-12PF		1		203 5220 002	3P VH connector cord	for E1,E1H	1
XL302	399 0105 009	Ceramic resonator CSB503F2		1		203 8505 009	5P VH connector cord	for E1,E1H	1
XL503	399 0075 003	Crystal 7.2 MHz		1					
	203 0356 010	Earth wire (A)		1					
	415 0309 026	P.V.C. tube (L=20)		1					

Note: The symbols in the column "Remarks" indicate the following destinations.  
 E3: U.S.A. & Canada model      E1C: China model  
 EU: U.S.A. model (AVR-981)      E1H: Hong Kong model  
 E2: Europe model      EUT: Taiwan R.O.C. model  
 E1: Asia model



**PARTS LIST OF EXPLODED VIEW**

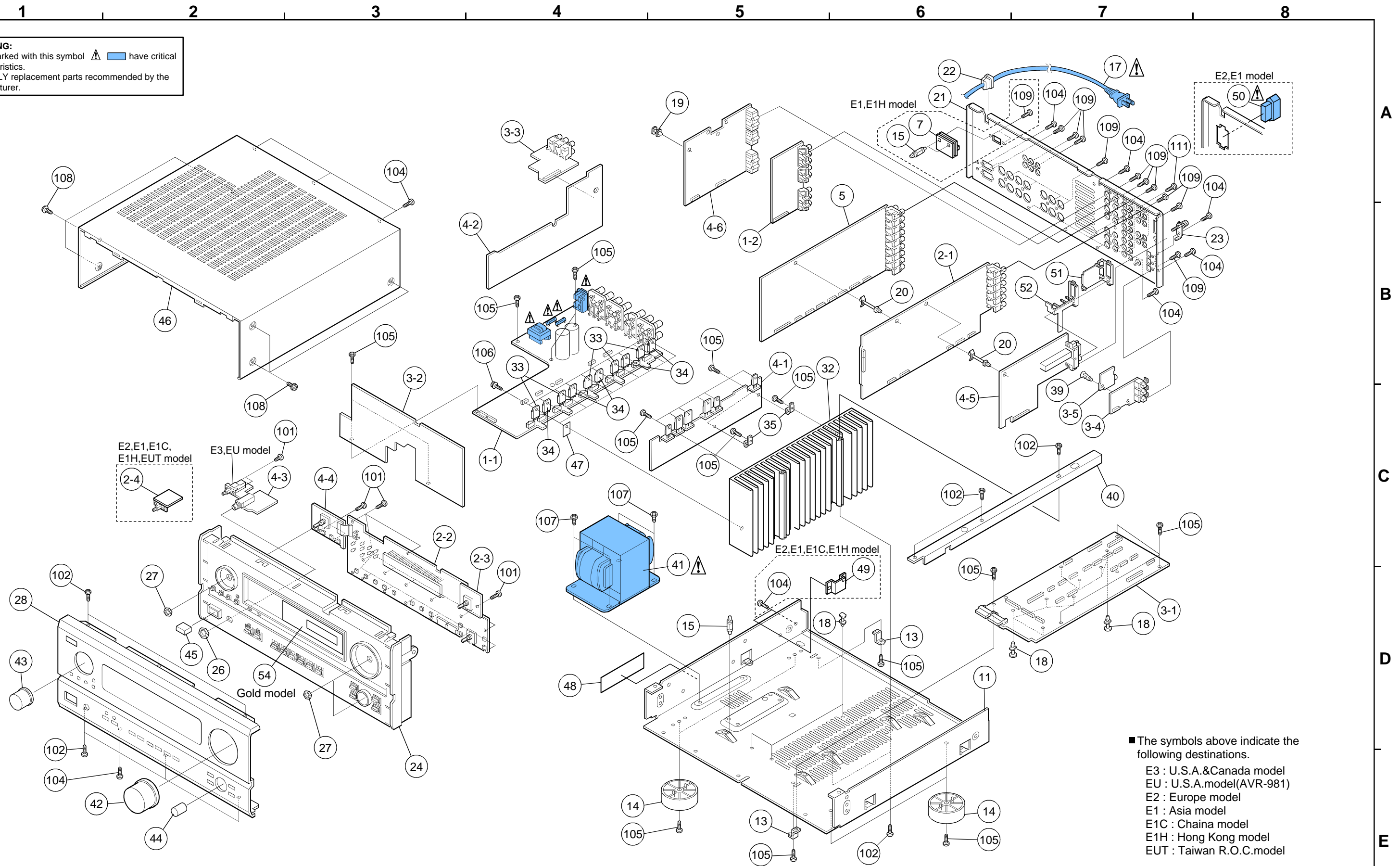
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-3232S	Power unit ass'y	for E3,EU	1	21	105 1352 036	Back panel	for E2	1
	1U-3232W		for E2	1	21	105 1352 023	Back panel	for E1,E1H	1
	1U-3232V		for E1,E1H	1	21	105 1352 049	Back panel	for E1C	1
	1U-3232X		for E1C	1	21	105 1352 052	Back panel	for EUT	1
	1U-3232Y		for EUT	1	22	445 0056 008	Cord bush		1
1-1		Power unit			23	205 1116 006	Terminal ass'y		1
	1-2	C.video unit			24	146 2214 129	Inner panel	for Black model	1
2	1U-3233S	EXT.IN unit ass'y	for E3,EU	1	24	146 2214 132	Inner panel	for Gold mode	1
	1U-3233W		for E2	1	26	475 6124 003	12 NUT		1
	1U-3233V		for E1,E1C,E1H	1	27	—	9 NUT		3
2-1	1U-3233Y		for EUT	1	28	144 2726 006	Front panel ass'y	for E3	1
		EXT IN vr unit			28	144 2726 051	Front panel ass'y	for EU	1
	2-2	Display unit			28	144 2726 035	Front panel ass'y	for E2 (Black model)	1
	2-3	VOL unit			28	144 2726 048	Front panel ass'y	for E2 (Gold model)	1
2-4	P. SW unit			28	144 2726 022	Front panel ass'y	for E1,E1C,E1H,EUT	1	
3	1U-3321	Control unit ass'y	for E3,EU	1	32	417 0588 005	Radiator		1
	1U-3321B		for E2	1	33	273 0389 031	2SC3855 LB(O/P/Y)(Z)		5
	1U-3321A		for E1,E1H	1	34	271 0240 035	2SA1491 LB(O/P/Y)(Z)		5
	1U-3321D		for E1C,EUT	1	35	412 4127 001	PWB bracket (B)		2
3-1		Control unit			39	412 2741 007	P.W.B. holder (H=8)		1
	3-2	Connect unit			40	412 4296 107	Radiator bracket		1
	3-3	PRE OUT unit			△ 41	233 6296 104	Power trans(MAIN/E3)	for E3,EU,EUT	1
	3-4	Digital input unit			△ 41	233 6302 001	Power trans(MAIN)-E2	for E2	1
	3-5	Digital IN-2 unit			△ 41	233 6303 000	Power trans(MAIN)-E1	for E1,E1H	1
4	1U-3235S	Regulator unit ass'y	for E3,EU	1	△ 41	233 6318 008	Power trans-MAIN-220V	for E1C	1
	1U-3235W		for E2	1	42	112 0844 006	Knob (M) ass'y	for Black model	1
	1U-3235V		for E1,E1H	1	42	112 0844 019	Knob (M) ass'y	for Gold mode	1
	1U-3235X		for E1C	1	43	112 0846 004	Knob (F) ass'y	for Black model	1
	1U-3235Y		for EUT	1	43	112 0846 017	Knob (F) ass'y	for Gold mode	1
4-1		Regulator unit			44	112 0848 002	Knob (S) ass'y	for Black model	1
	4-2	Amp unit			44	112 0848 015	Knob (S) ass'y	for Gold mode	1
	4-3	H/P & P. SW unit			45	113 1873 105	Push knob	for Black model	1
	4-4	Front unit			45	113 1873 118	Push knob	for Gold mode	1
	4-5	Tuner unit			46	102 0638 008	Top cover	for Black model	1
	4-6	S-video unit			46	102 0638 011	Top cover	for Gold mode	1
5	1U-3323	Audio/DSP unit ass'y	for E3,EU	1	47	—	Insulating sheet		10
	1U-3323A		for E1,E1C,E1H	1	48	513 3336 002	Caution label	for E3,EU	1
	1U-3323B		for E2	1	49	412 2955 107	Side bracket	for E2,E1,E1C,E1H	1
	1U-3323E		for EUT	1	△ 50	203 3981 000	AC outlet (E2)	for E2,E1,E1H	1
7	1U-3236	Voltage SEL unit ass'y	for E1,E1H	1	51	412 4556 009	Earth plate (B)		1
11	411 1372 526	Main chassis		1	52	412 4557 105	Earth plate (A)		1
13	412 4210 002	Bracket		1	△ 53	513 3517 009	Rating label (China)	for E1C	1
14	104 0194 289	Foot ass'y		4	53	513 3548 007	Rating label (T)	for EUT	1
15	449 0133 017	PWB holder		1	54	146 2151 004	Blind sheet	for Gold mode	1
△ 17	206 2160 009	AC cord VH N/I E3	for E3,EU,EUT	1	△ 55	203 4871 067	3P KR-KR RIBBON 175	CN031	1
△ 17	206 2089 106	AC cord W/CON.E2	for E2	1	△ 56	203 4871 038	3P KR-KR RIBBON 100	CN037 for E3,EU	1
△ 17	206 2175 007	AC cord(E1/VH)	for E1	1	△ 57	445 8004 007	Wire clasper	for E3,EU,E2(Black model),E1C	3
△ 17	206 2174 008	AC cord(E1C/VH)	for E1C	1				for E2(Gold model),	4
△ 17	206 2177 005	AC cord(EK/VH)	for E1H	1				E1,E1H,EUT	
18	412 2814 028	Card spacer (L=10)		10	△ 58	477 0096 007	Push rivet	for E2,E1,E1C,E1H	14
19	412 2814 031	Card spacer (L=4)		1	△ 59	515 8030 066	Preset label	for E1,E1H	1
20	409 0052 019	Holder (A)		1	△ 60	513 3518 008	Caution label (E1C)	for E1C	1
21	105 1352 007	Back panel	for E3	1	△ 60	513 2482 009	Caution label (T)	for EUT	1
21	105 1352 010	Back panel	for EU	1					

Ref. No.	Part No.	Part Name	Remarks	Q'ty
△ 61	513 2481 000	Serial no. sheet (T)	for EUT	1
<b>SCREWS</b>				
101	473 7500 015	Screw 3×8 CBTS (P)-Z		17
102	473 7501 001	Screw 3×10 CBTS (P)-Z		11
104	473 7015 018	Screw 3×8 CBTS (S)-B	for E3,EU,EUT for E2,E1,E1C,E1H	10 12
105	473 7005 002	Screw 3×10 CBTS (S)-Z		26
106	473 8007 009	Cup screw 3×12		10
107	473 7004 016	Screw 4×6 CBTS (S)-Z		4
108	473 8064 000	Screw 4×8 CBTS(B)-B-3P	for Black model	6
108	473 8064 013	Screw 4×8 CBTS(B)-N-3P	for Gold mode	6
109	477 0064 107	Fixing screw	for E3,EU,E1,E1H,EUT for E2 for E1C	30 26 28
111	473 7006 056	Screw 3X20 CBTS (S)-B		1



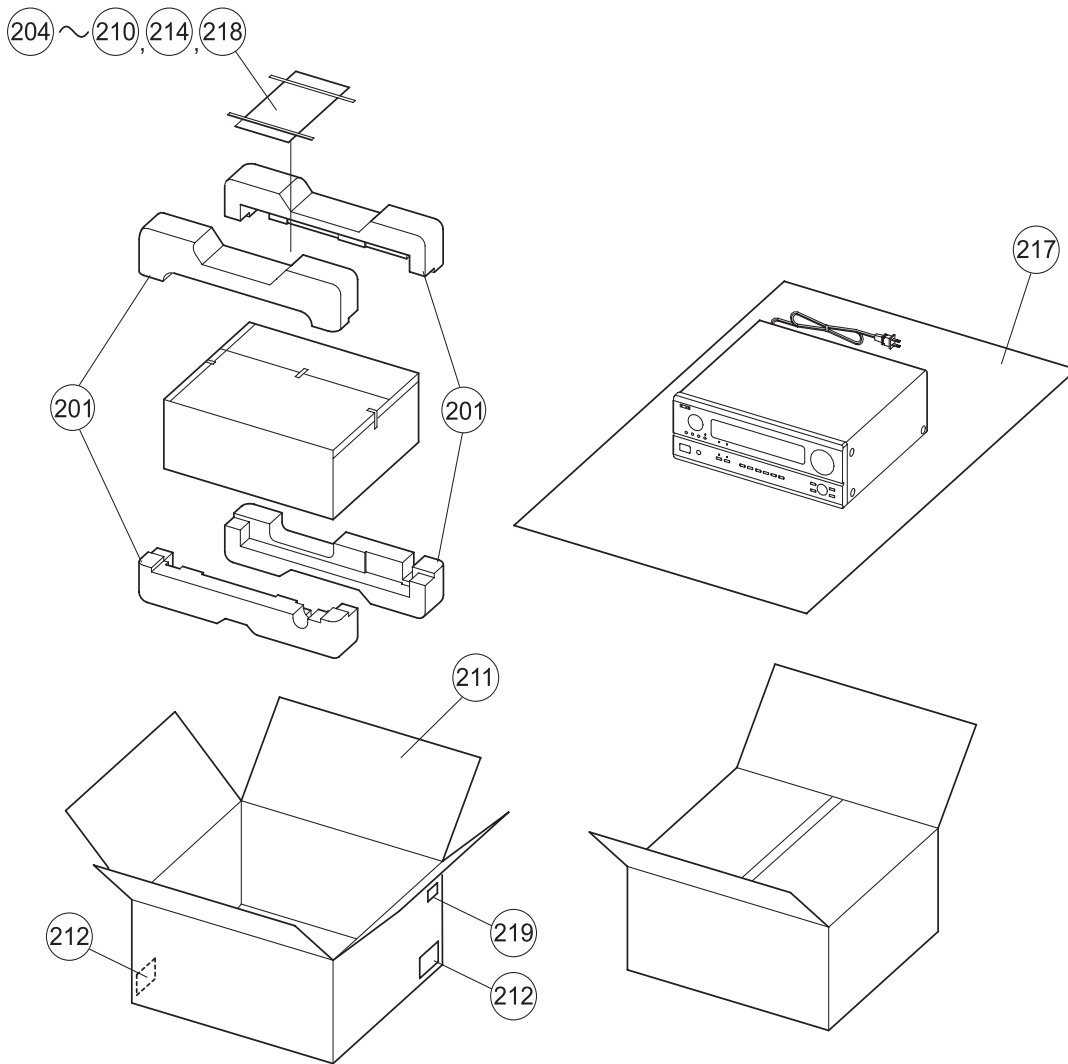
**EXPLODED VIEW**

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



■ The symbols above indicate the following destinations.  
 E3 : U.S.A.&Canada model  
 EU : U.S.A.model(AVR-981)  
 E2 : Europe model  
 E1 : Asia model  
 E1C : China model  
 E1H : Hong Kong model  
 EUT : Taiwan R.O.C.model

# PACKING VIEW



**Note:** The symbols in the column "Remarks" indicate the following destinations.  
 E3: U.S.A. & Canada model      E1C: China model  
 EU: U.S.A. model (AVR-981)      E1H: Hong Kong model  
 E2: Europe model      EUT: Taiwan R.O.C. model  
 E1: Asia model

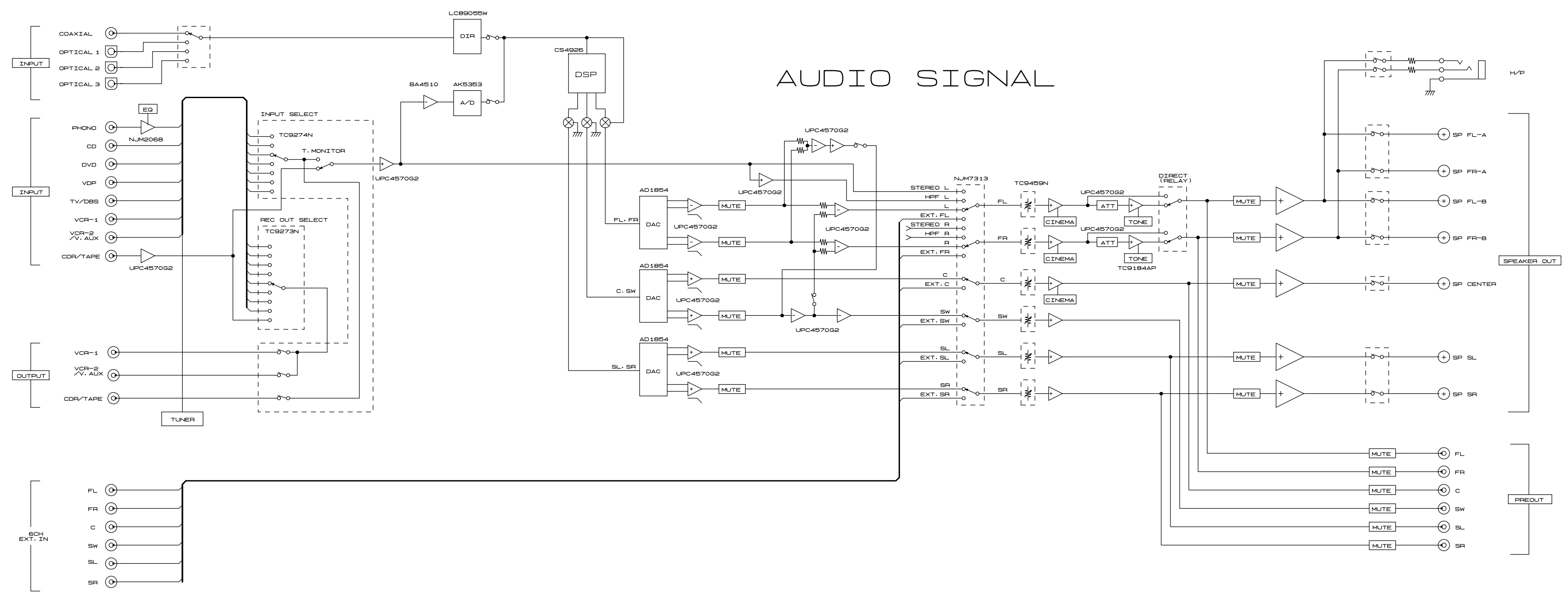
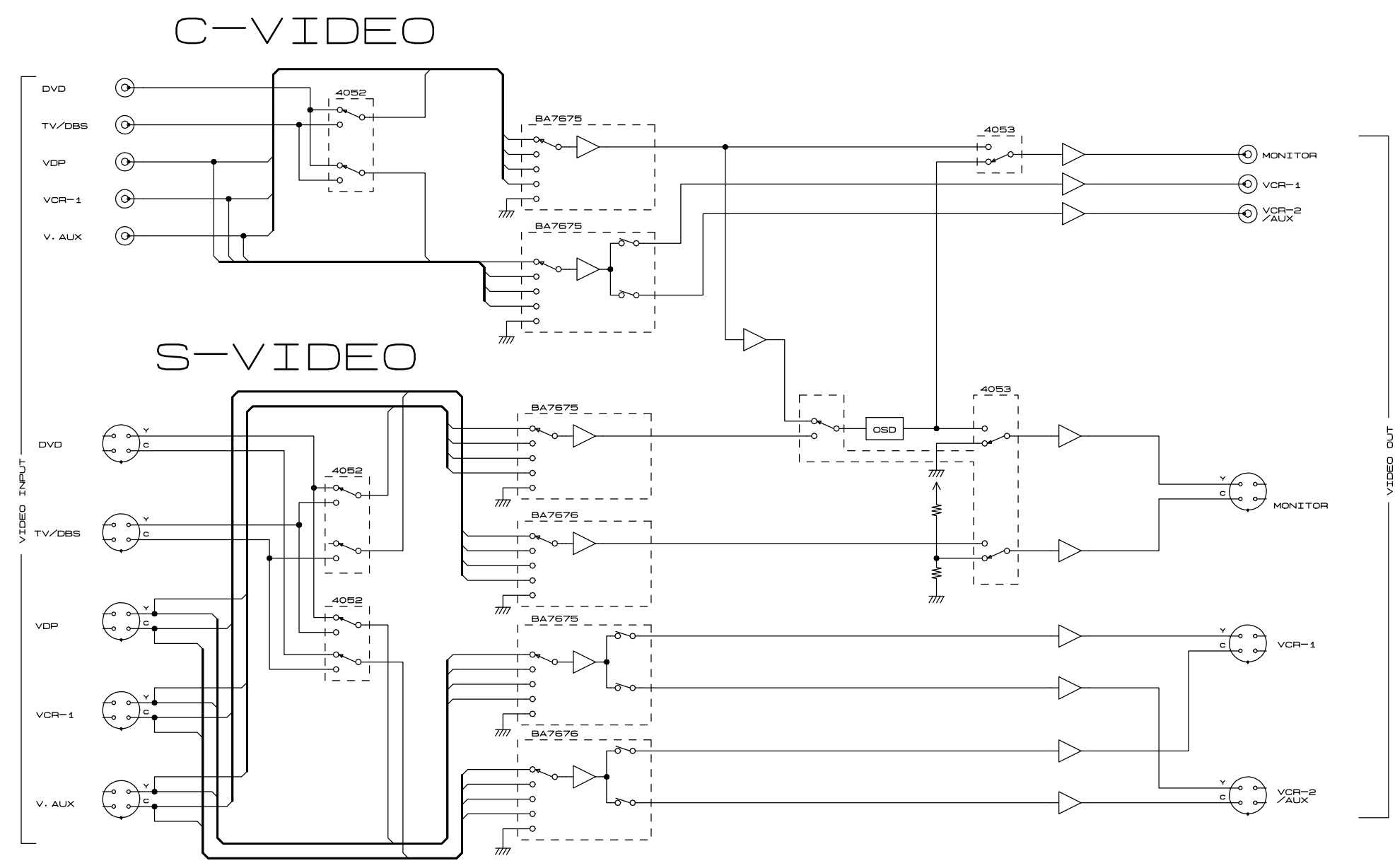
## PARTS LIST OF PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	503 1330 003	Cushion ass'y		1	210	515 0867 101	S.S.list (EX)		1
★ 202	502 0933 000	Pad	for E1H	2	211	501 2099 004	Carton case	for E3,E2,E1,E1C,E1H,EUT	1
204	505 8006 019	Envelope		1	211	501 2099 017	Carton case	for EU	1
205	511 3662 000	Inst. Manual (E3)	for E3	1	211	501 2099 020	Carton case	for E1H	1
205	511 3686 002	Inst. Manual (981)	for EU	1	212	—	Control card		1
205	511 3691 000	Inst. Manual (E2)	for E2	1	214	515 0817 009	DEL warranty form	for E3(U.S.A. model),EU	1
205	511 3690 001	Inst. Manual (E1)	for E1,E1H,EUT	1	★ 215	513 9111 001	Color label (gold)	for Gold model	2
205	511 3692 009	Inst. Manual (E1C)	for E1C	1	217	504 0192 106	Cabinet sheet		1
206	231 0922 009	Loop antenna		1	218	—	Battery (R6P/AA)×2		1
207	395 0023 008	FM antenna ass'y		1	219	—	Bar code label	for E3,EU,E2	1
208	529 0079 008	FM ant. adapter		1	★ 220	513 3322 003	Label (RDS)	for E2	2
209	399 0640 001	Remote controller RC-881	for E3,EU,E1,E1C,E1H,EUT	1	★ 221	513 3549 006	Carton label (T)	for EUT	1
209	399 0641 000	Remote controller RC-882	for E2	1	★	515 0627 105	DCI warranty form	for E3(Canada model)	1



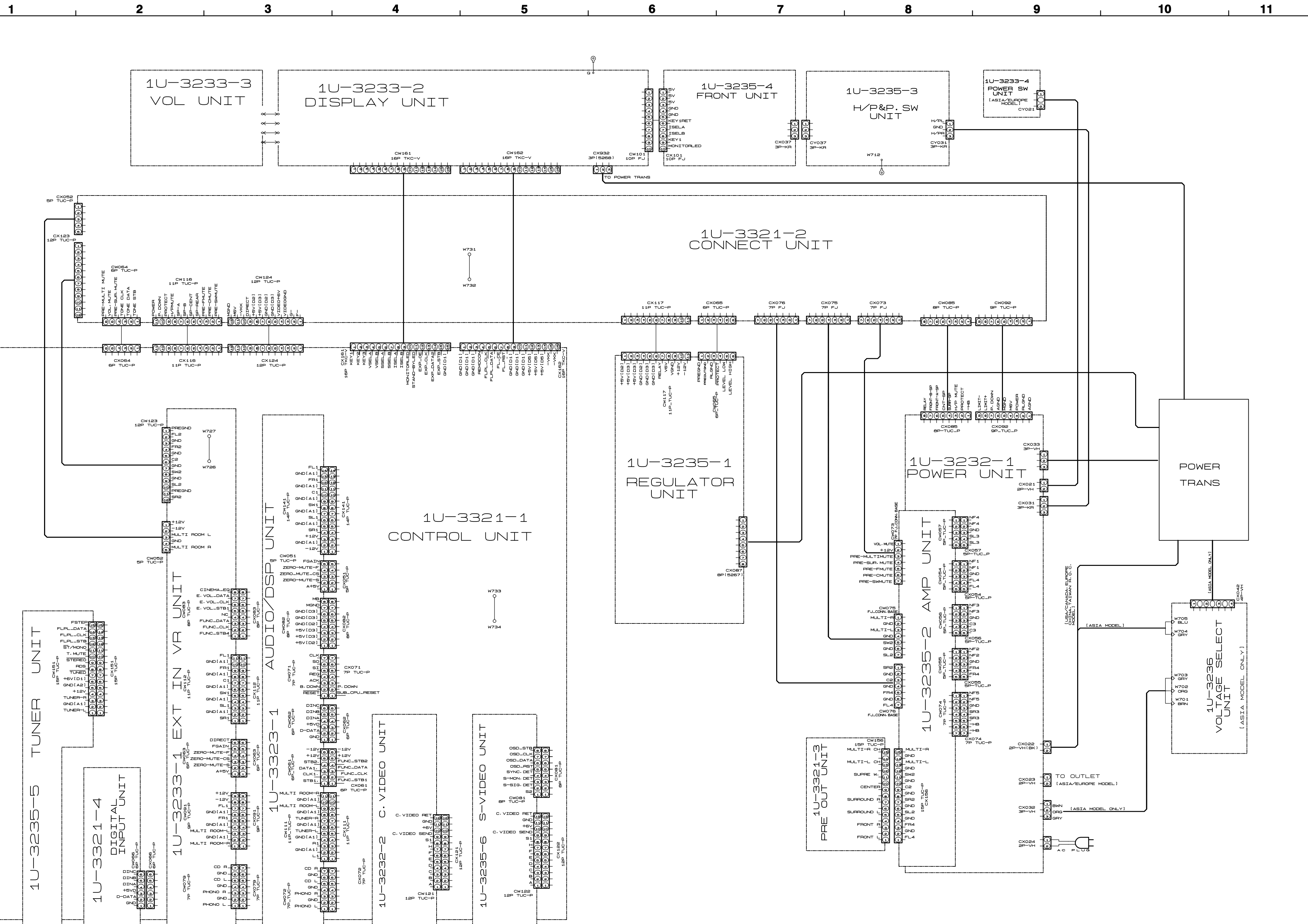
BLOCK DIAGRAM

1 2 3 4 5 6 7 8 9 10 11



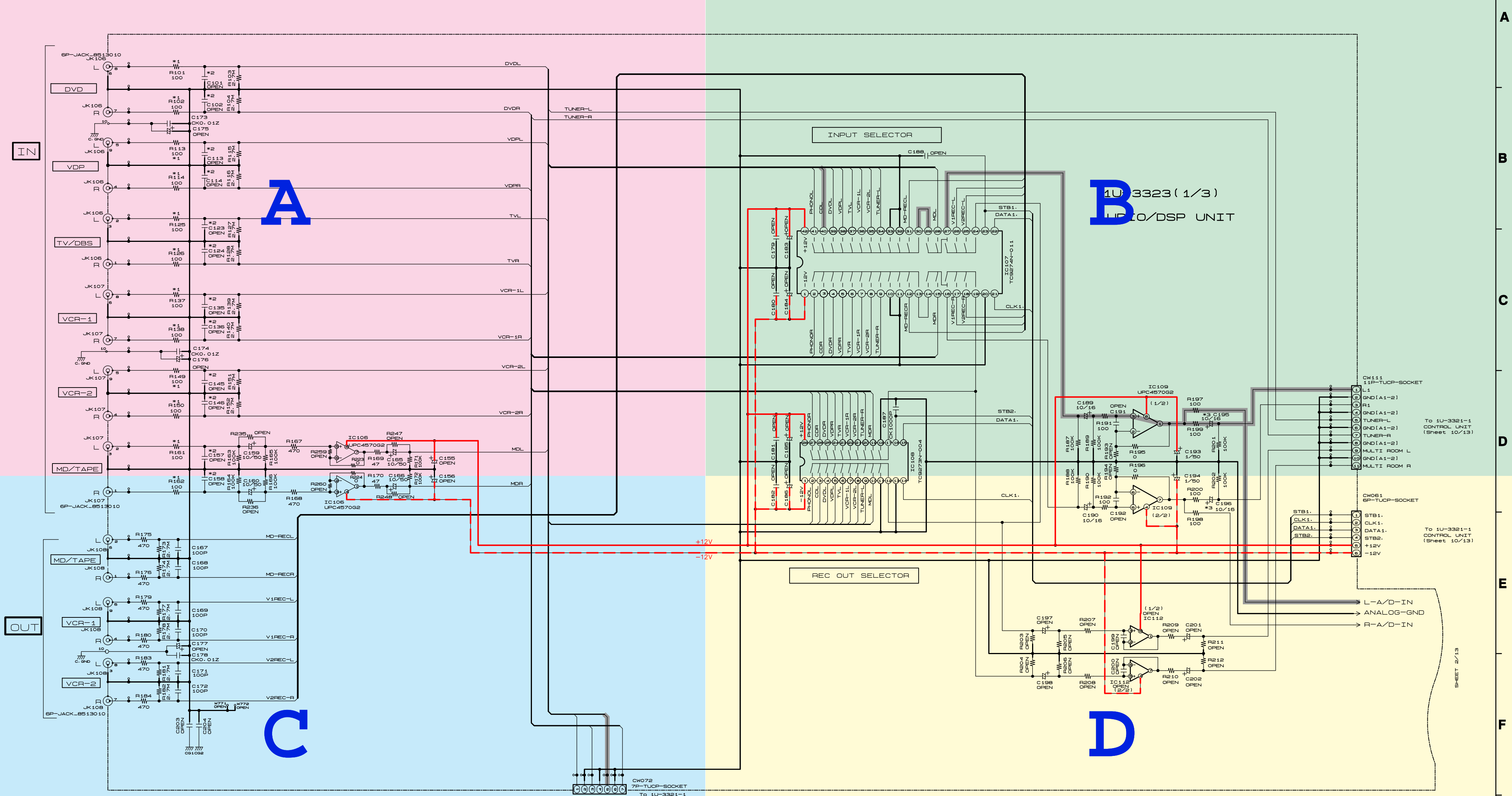
A  
B  
C  
D  
E  
F  
G  
H

WIRING DIAGRAM



**SCHEMATIC DIAGRAMS (1/13)**

1 2 3 4 5 6 7 8 9 10 11



	*1	*2	*3
R101-102, 113, 114, 125, 126, 137, 138, 149, 150, 161, 162	100	OPEN	10/16
R103, 108, 111, 114, 123, 124, 135, 136, 142, 146, 157, 158	OPEN	OPEN	OPEN
R175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220	470	330P	100/16
R175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220	470	330P	10/16

**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 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 milliamps, 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.



6

7

8

9

10

11

A

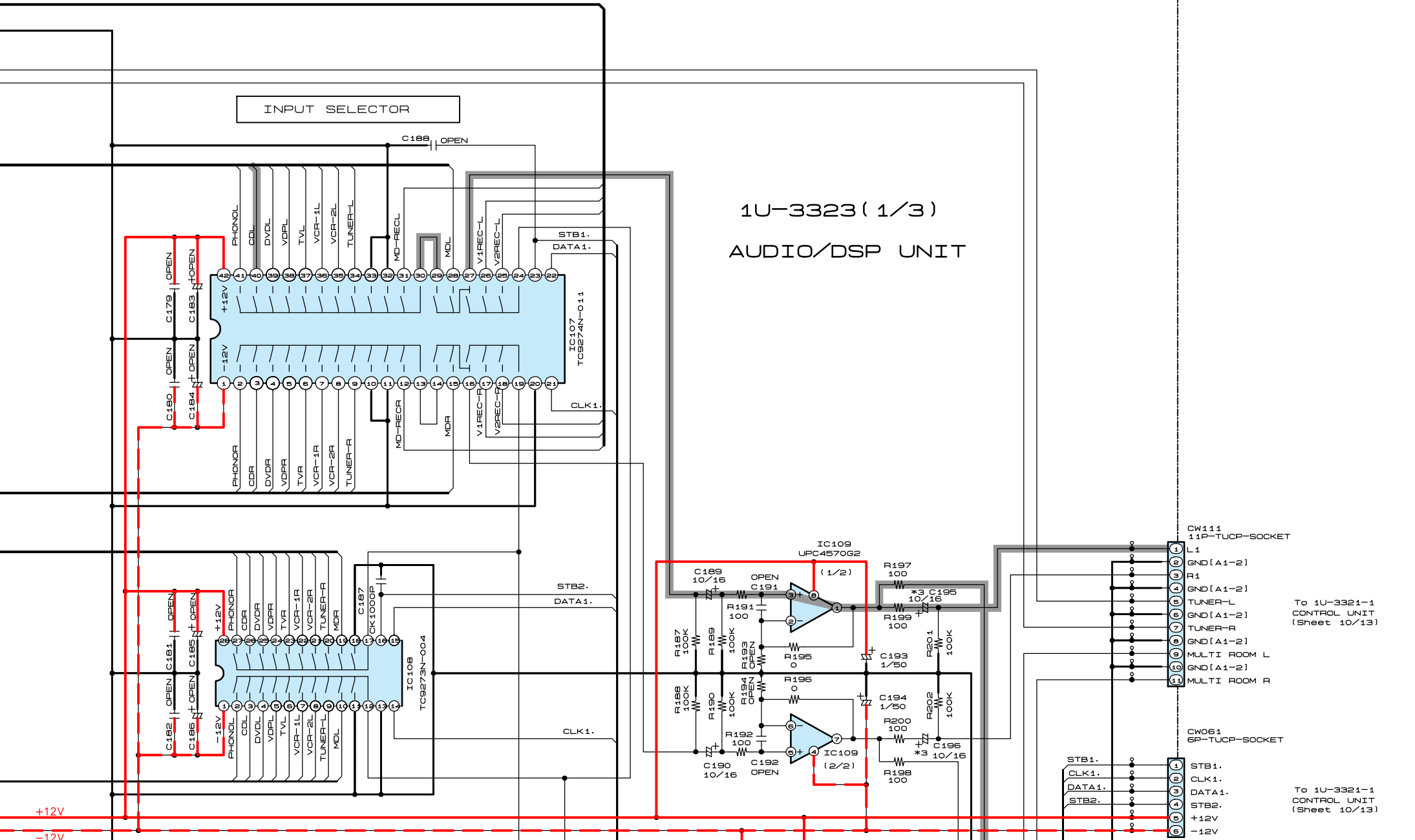
B

C

D

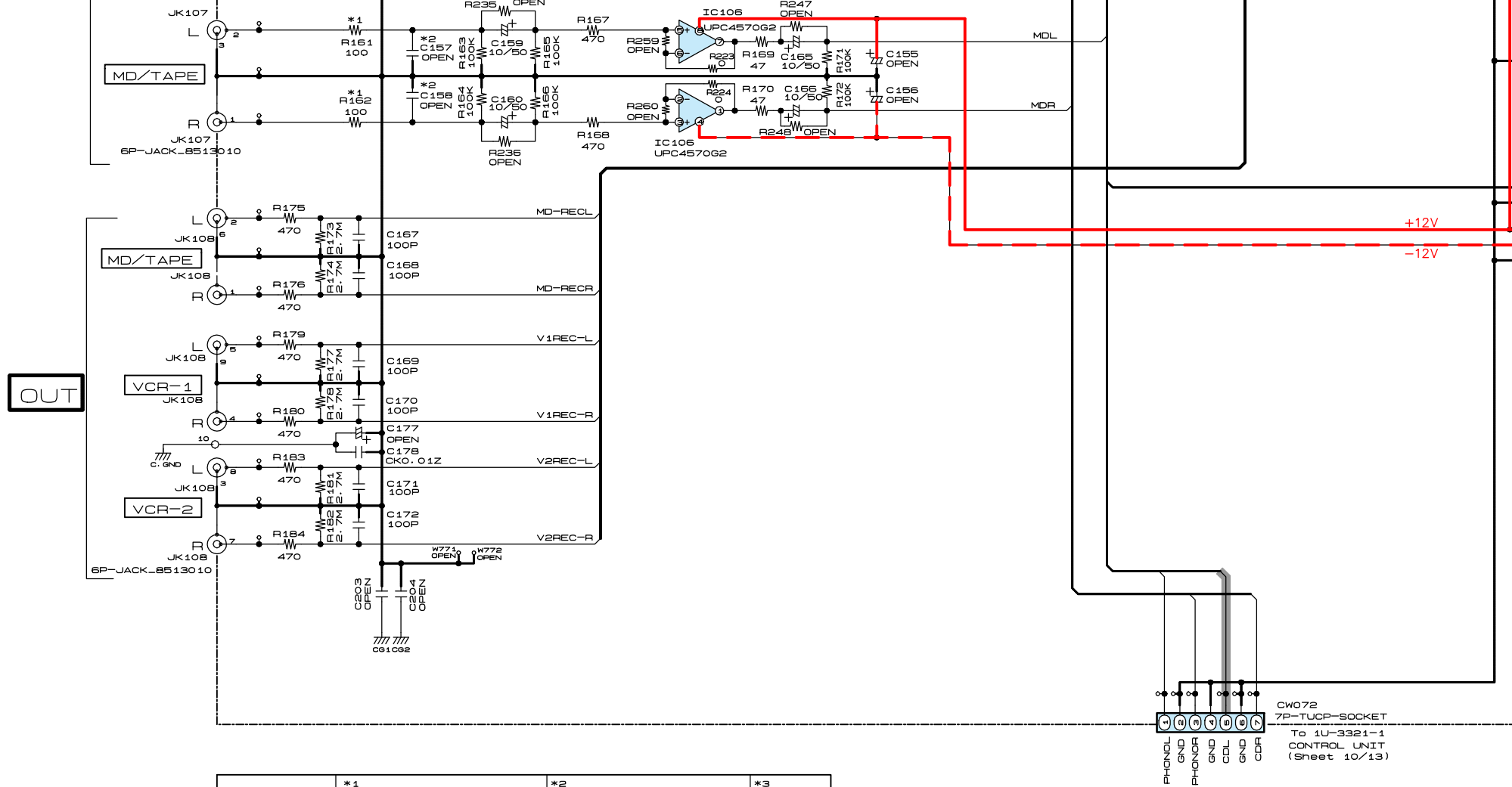
INPUT SELECTOR

1U-3323 (1/3)  
AUDIO/DSP UNIT

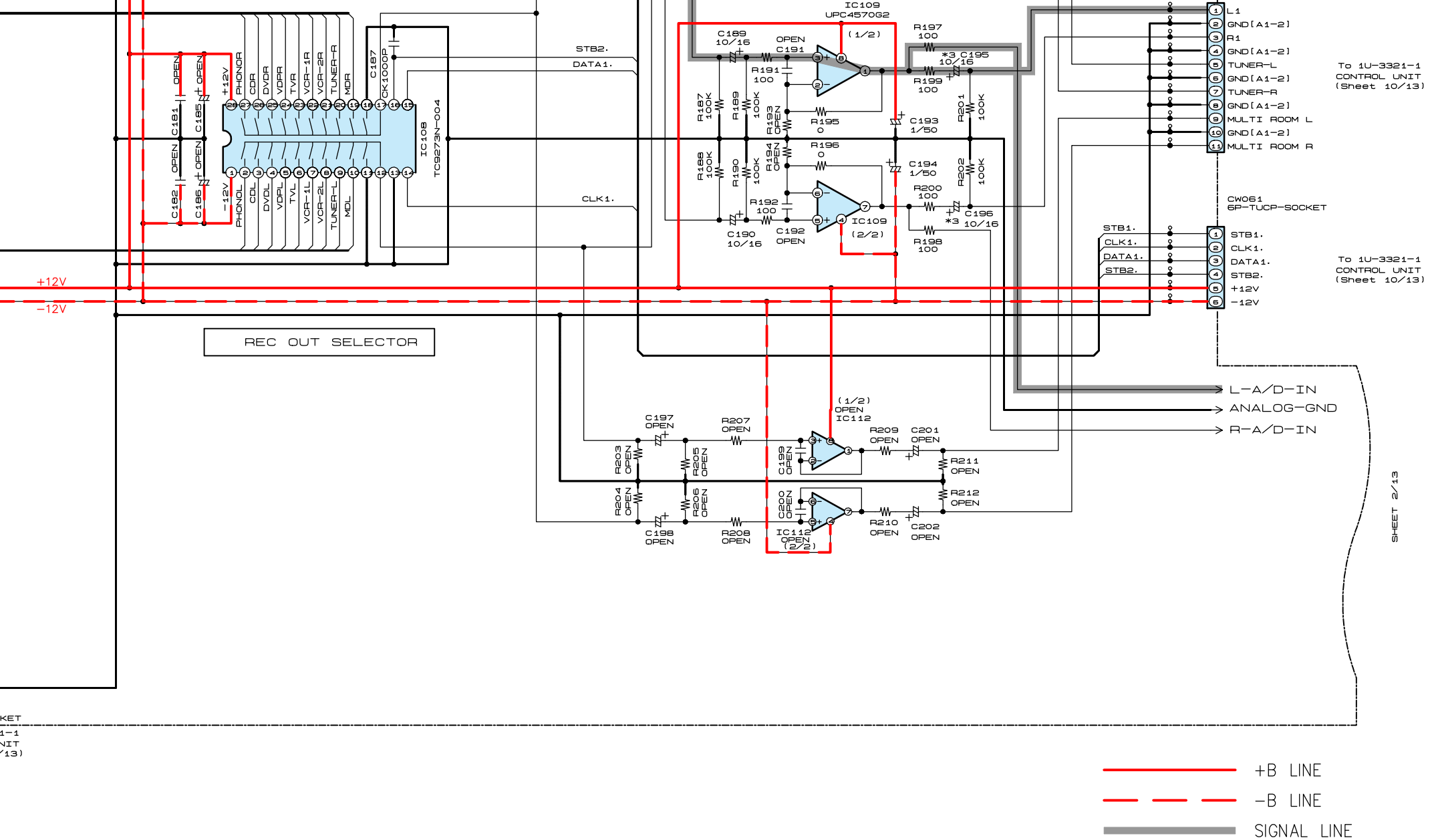


To 1U-3321-1  
CONTROL UNIT  
(Sheet 10/13)

To 1U-3321-1  
CONTROL UNIT  
(Sheet 10/13)



	*1	*2	*3
	R101, 102, 113, 114, 125, 126 137, 138, 149, 150, 161, 162	C101, 102, 113, 114, 123, 124 135, 136, 145, 146, 157, 158	C195, 196
* USA CANADA ASIA CHINA HONG KONG	100	OPEN	10/16
EUROPE	470	330P	100/16
TAIWAN R. O. C	470	330P	10/16



SHEET 2/13

**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  have critical characteristics.  
 Use ONLY replacement parts recommended by the manufacturer.

**CAUTION:**

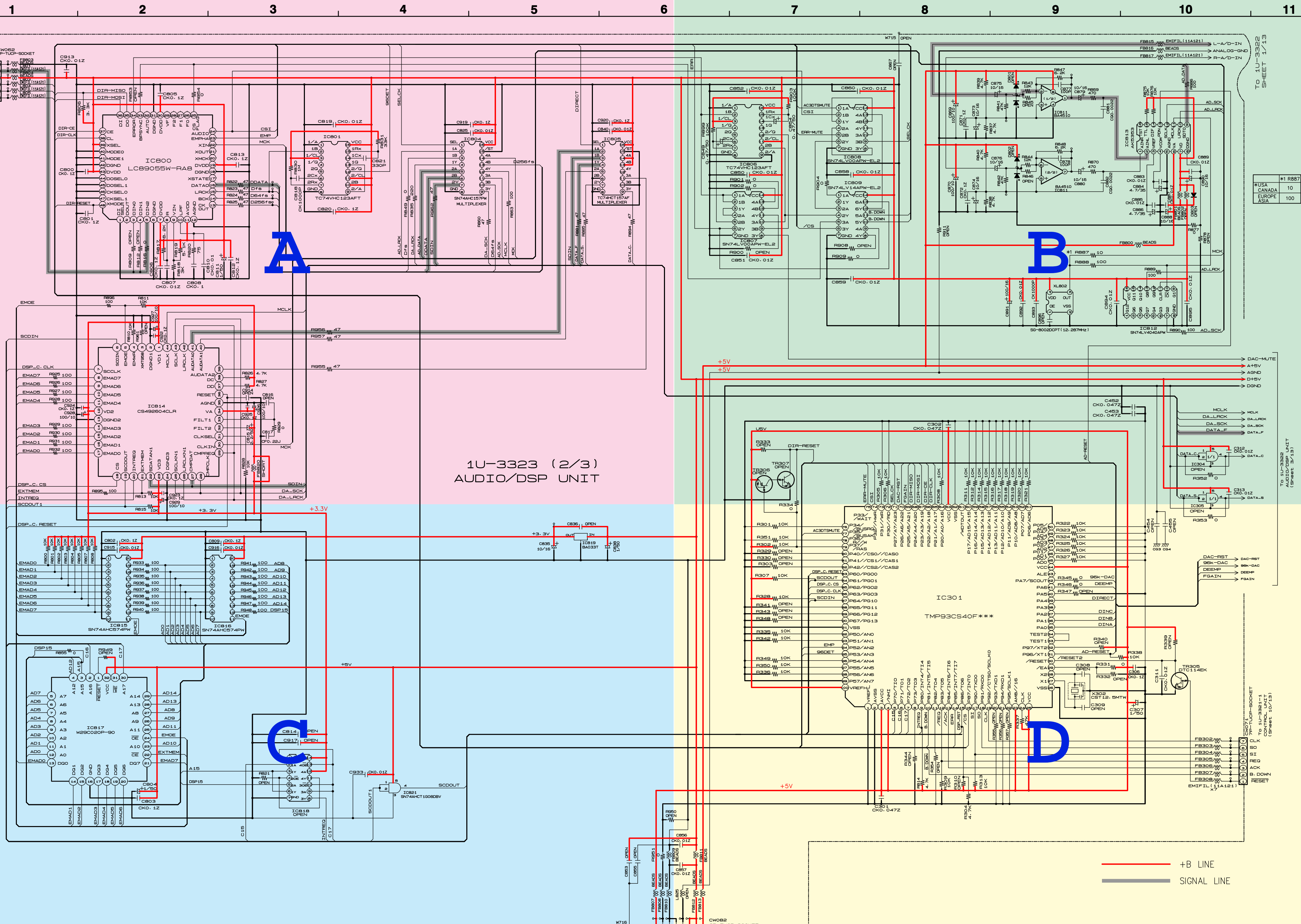
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

**WARNING:**

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



SCHEMATIC DIAGRAMS (2/13)



1U-3323 (2/3) AUDIO/DSP UNIT

#1 R887	
USA	10
EUROPE	10
ASIA	100

— +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:**  
Parts marked with this symbol 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 milliamps, 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 (2/13)  
1U-3323 AUDIO/DSP UNIT (2/3)



# SCHEMATIC DIAGRAMS (2/13)

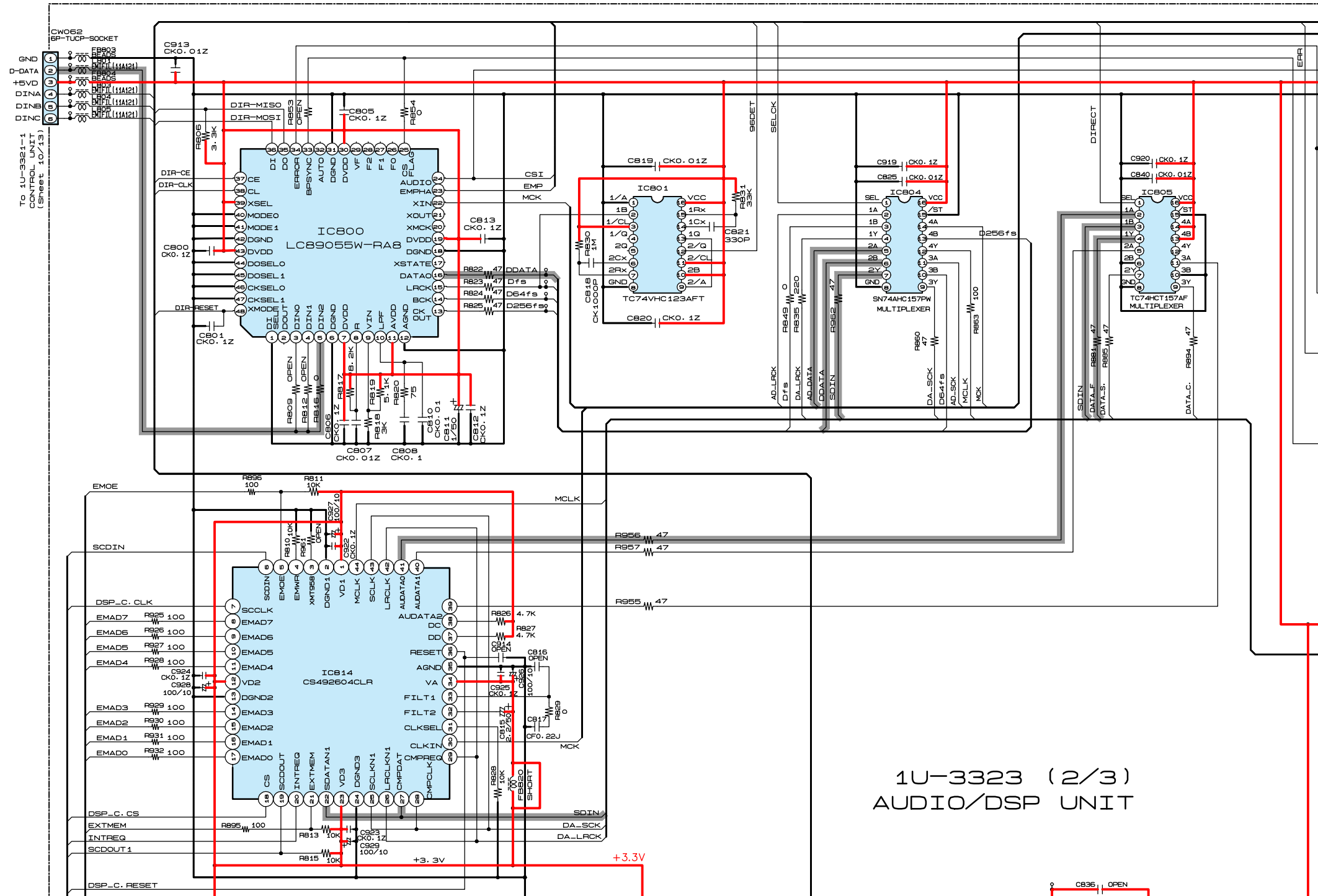
1 2 3 4 5 6

A

B

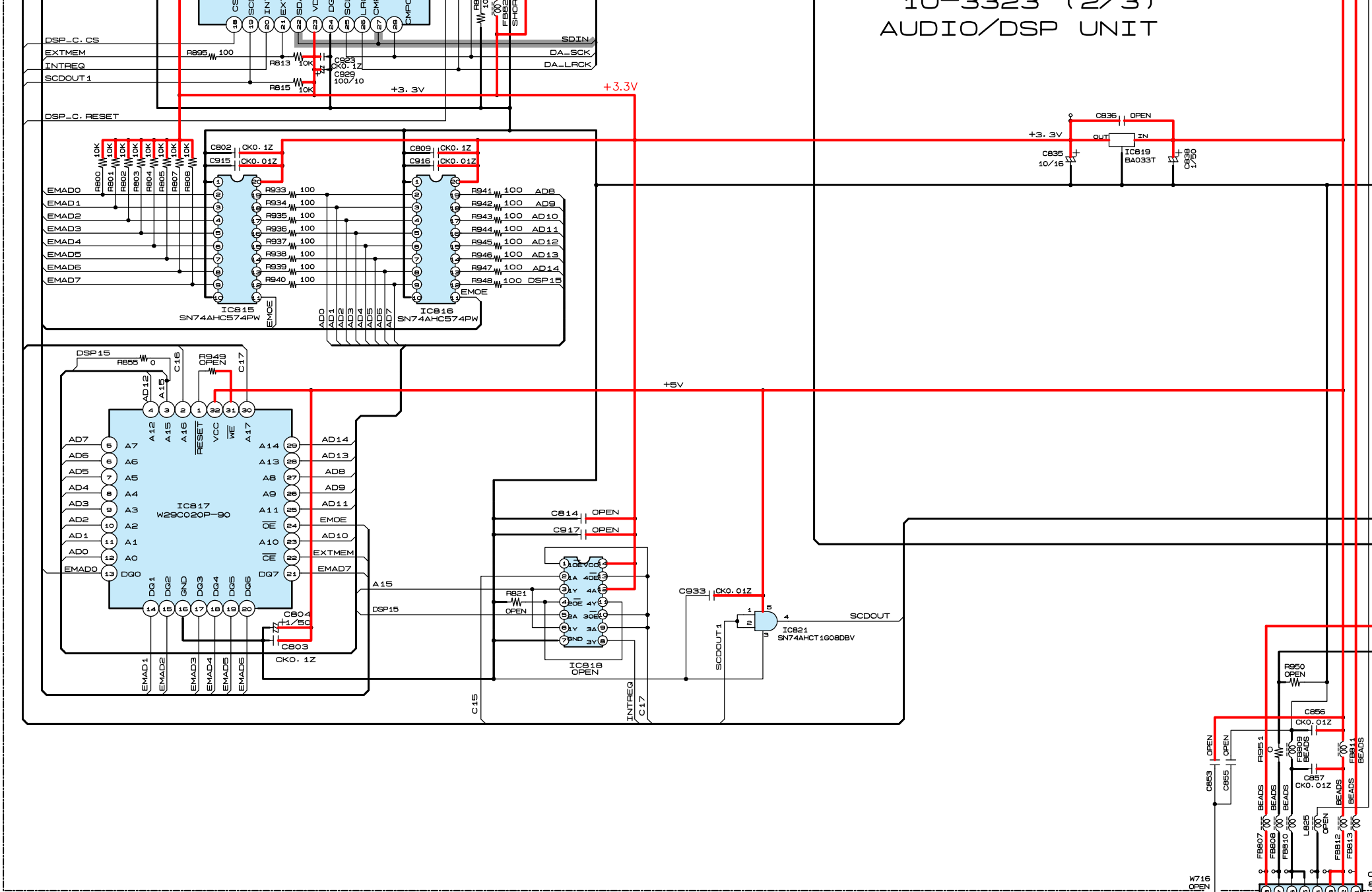
C

D



1U-3323 (2/3)  
AUDIO/DSP UNIT



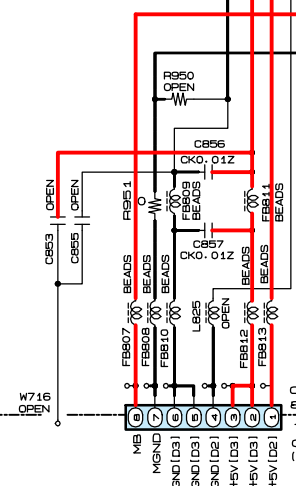


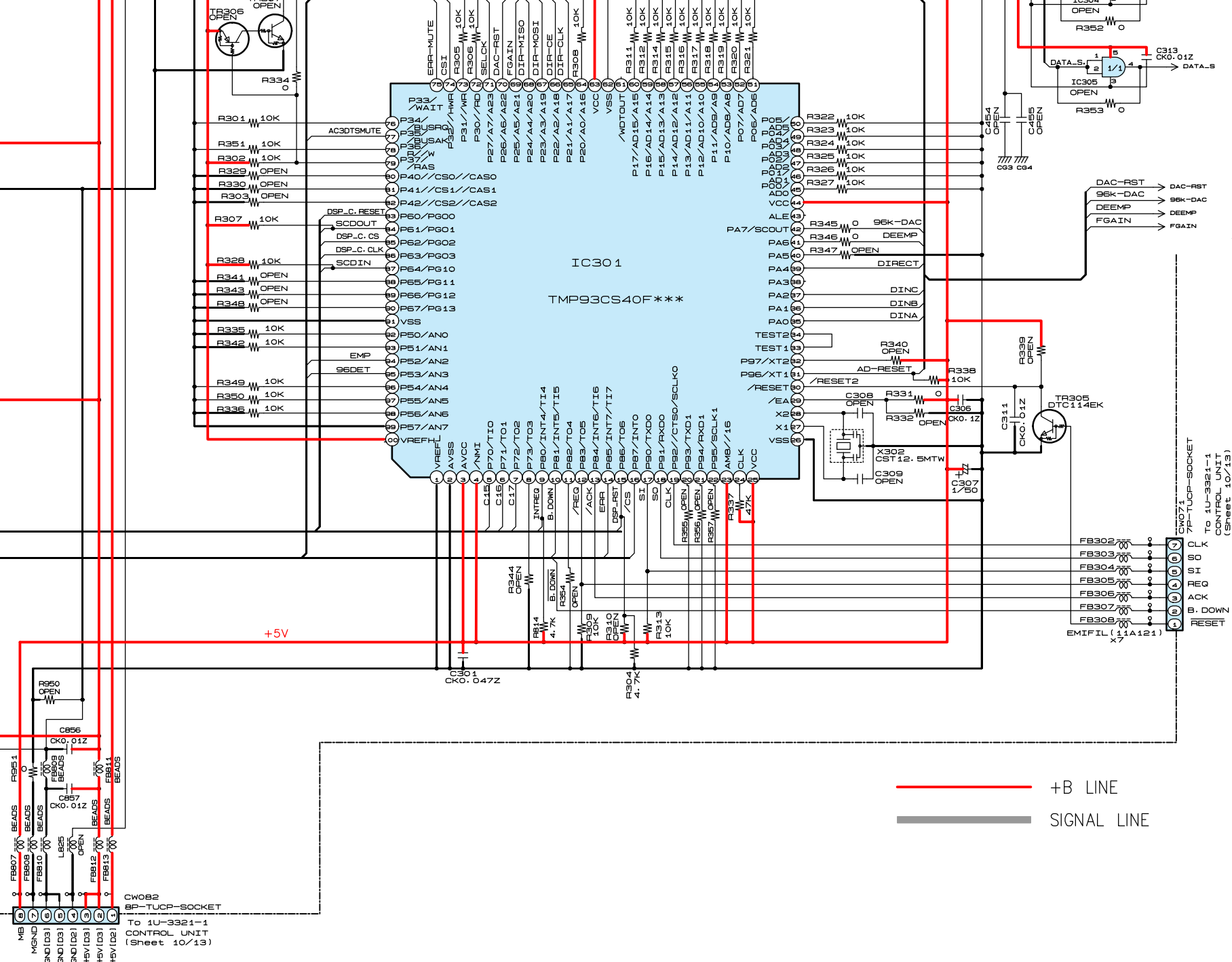
**NOTICE**  
 ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM  
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD  
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT  
 CONDITION.  
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE.

**WARNING:**  
 Parts marked with this symbol 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 milliamps, 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.





To 1U-3323 AUDIO/DSP CONTROL UNIT (Sheet 10/13)

7-PIN TUCP-SOCKET  
To 1U-3321-1 CONTROL UNIT (Sheet 10/13)

EMIFIL (11A121) X7  
FB302  
FB303  
FB304  
FB305  
FB306  
FB307  
FB308  
RESET  
B. DOWN  
ACK  
REQ  
SI  
SO  
CLK

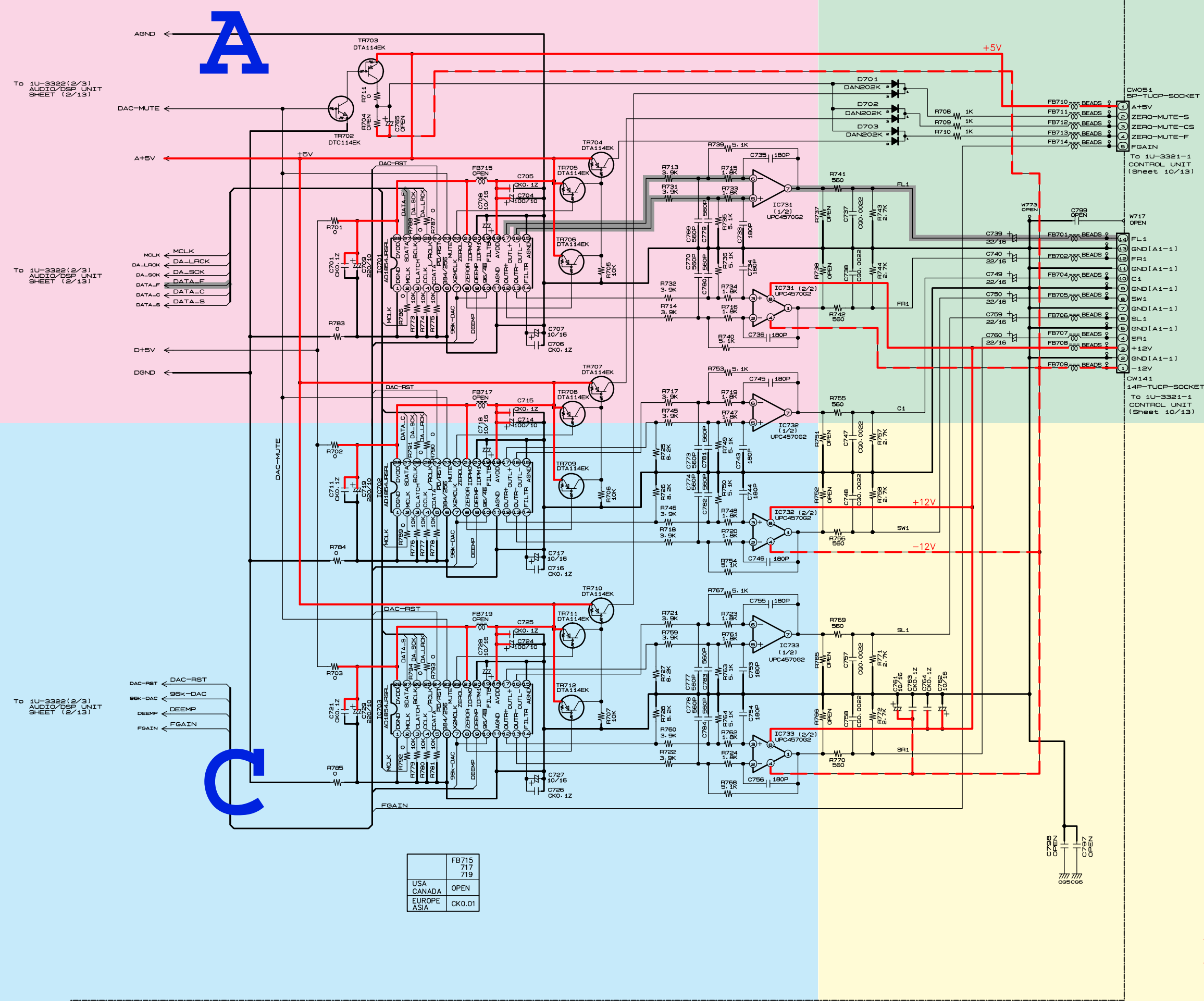
— +B LINE  
— SIGNAL LINE

**SCHEMATIC DIAGRAMS (2/13)**  
**1U-3323 AUDIO/DSP UNIT (2/3)**

SCHEMATIC DIAGRAMS (3/13)

1 2 3 4 5 6 7 8 9 10 11

1U-3323 (3/3)  
AUDIO/DSP UNIT

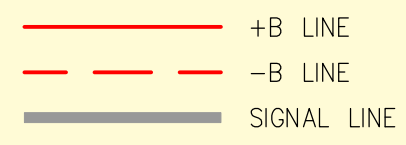


**NOTICE**  
 ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM  
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD  
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT  
 CONDITION.  
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE.

**WARNING:**  
 Parts marked with this symbol  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 milliamps, 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.



	FB715
USA	OPEN
CANADA	OPEN
EUROPE	CK0.01
ASIA	CK0.01

# SCHEMATIC DIAGRAMS (3/13)

1

2

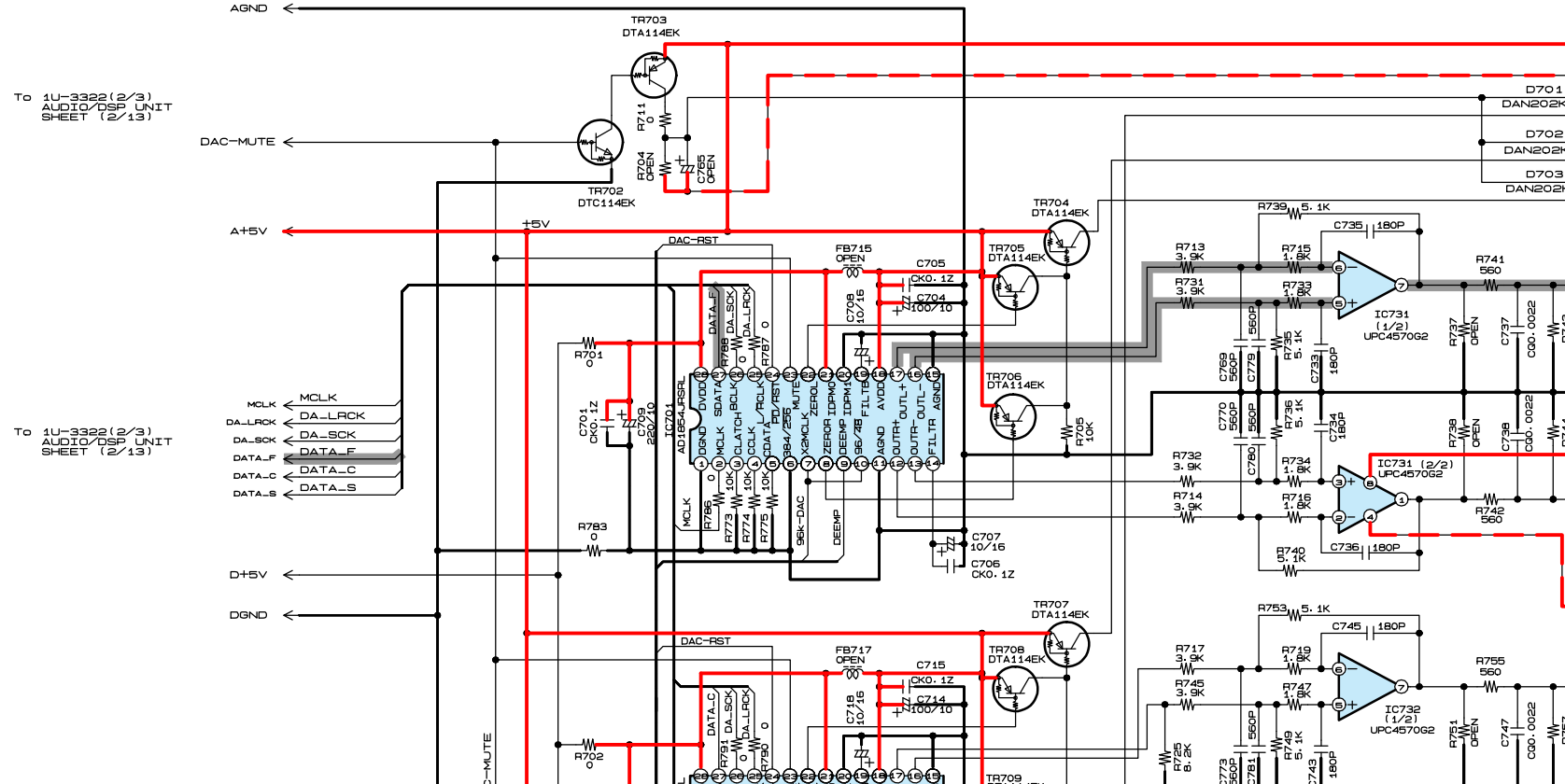
3

4

5

6

## 1U-3323 (3/3) AUDIO/DSP UNIT



To 1U-3322 (2/3)  
AUDIO/DSP UNIT  
SHEET (2/13)

To 1U-3322 (2/3)  
AUDIO/DSP UNIT  
SHEET (2/13)

6

7

8

9

10

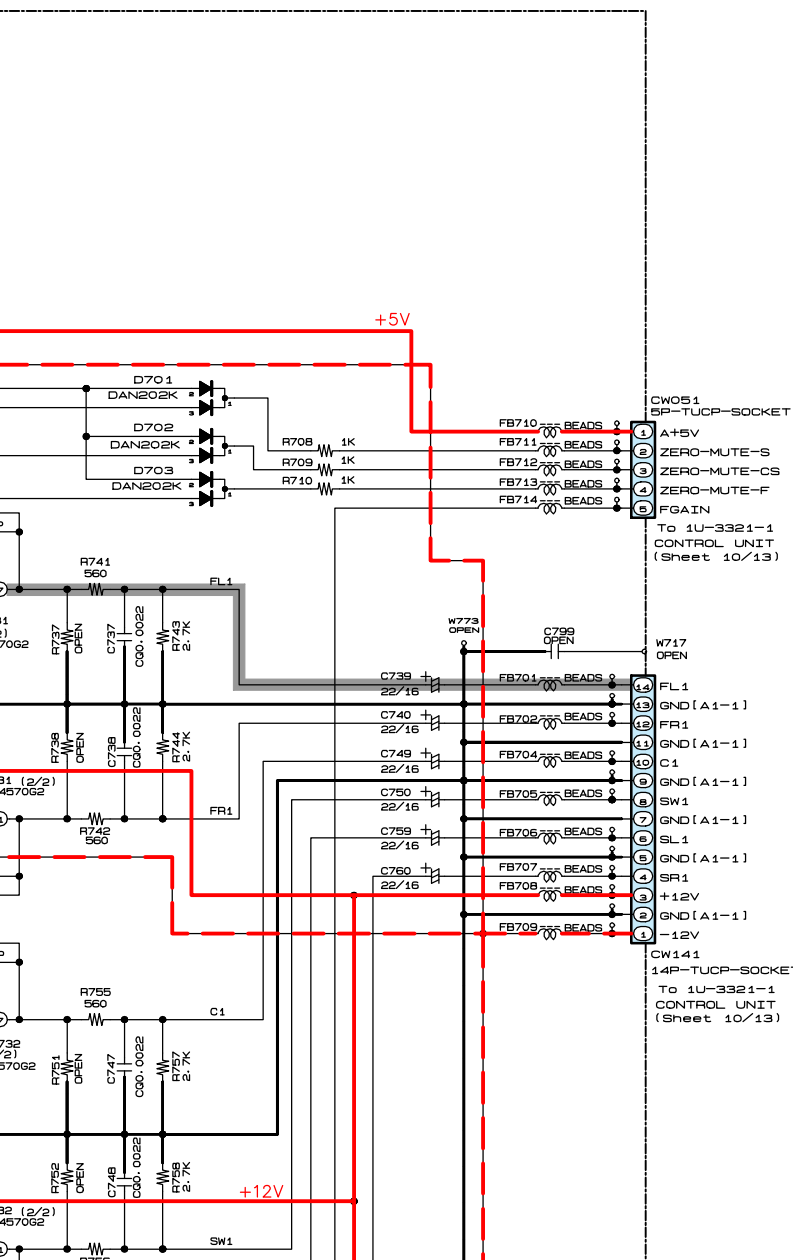
11

A

B

C

D

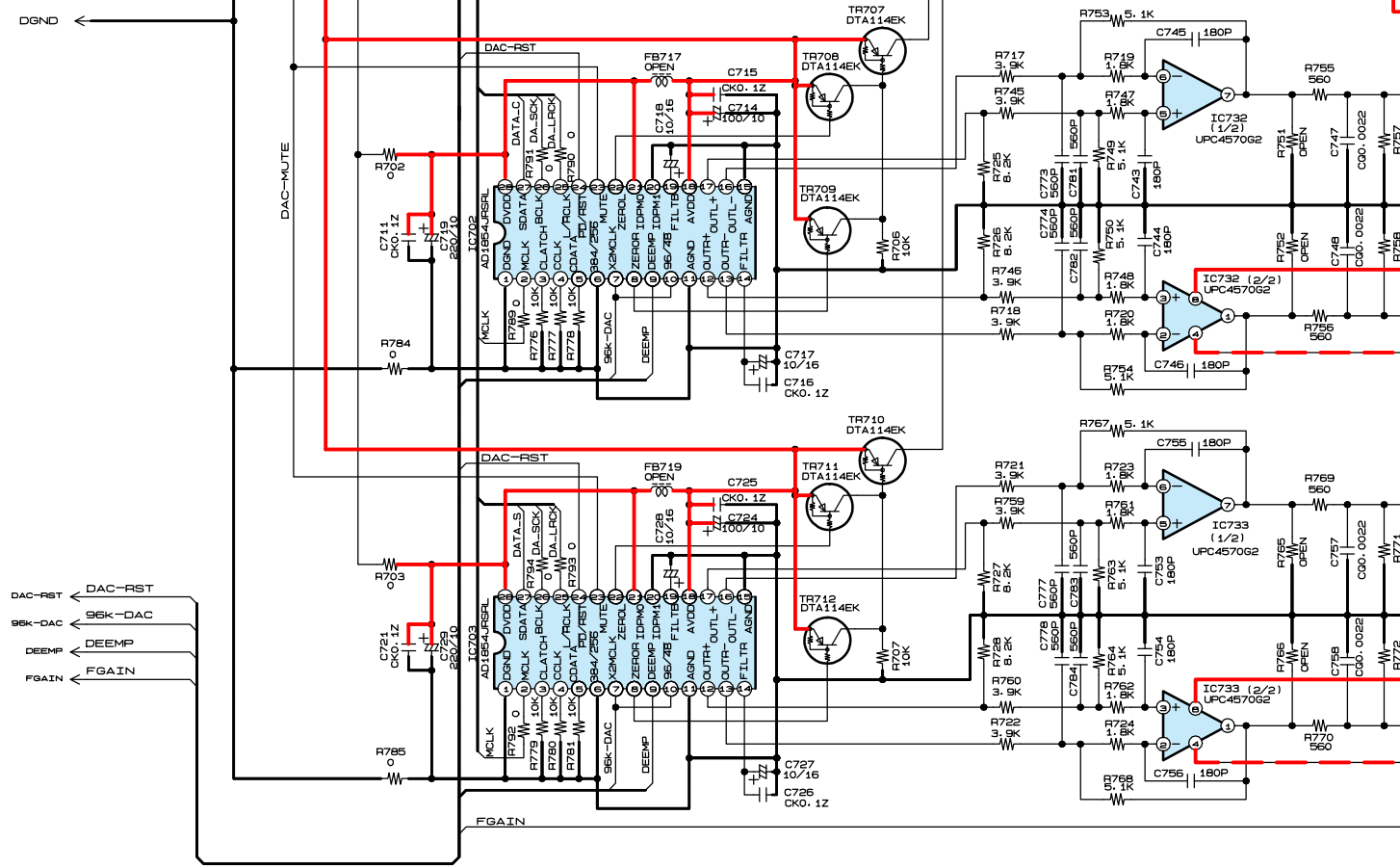


**NOTICE**

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.



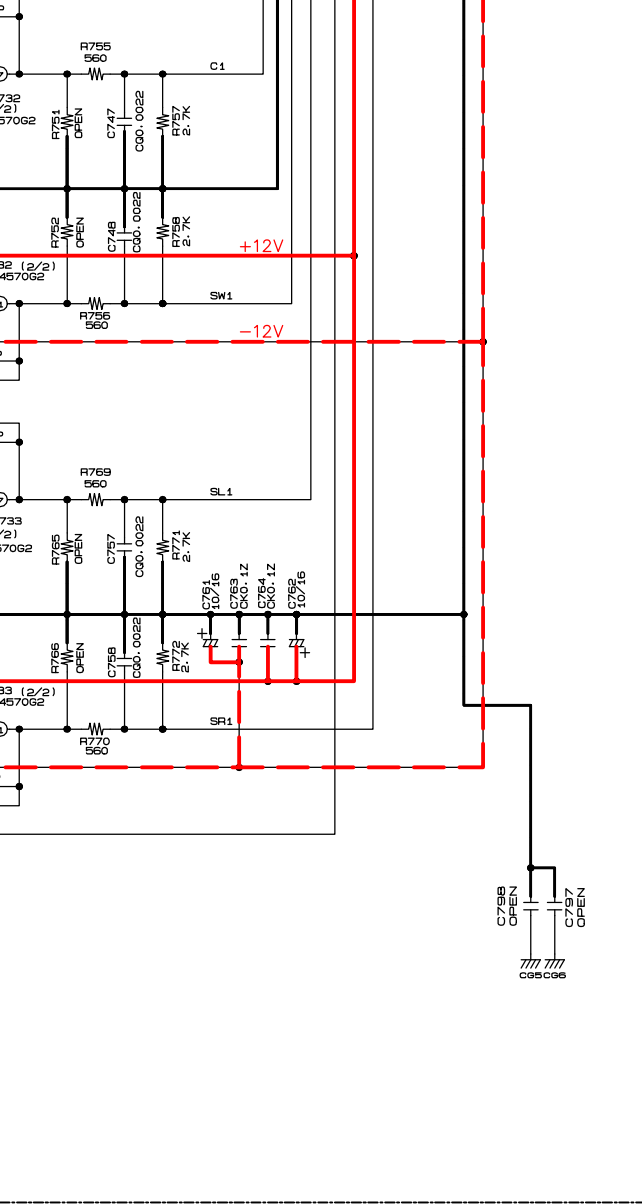
TO 1U-3322(2/3)  
AUDIO/DSP UNIT  
SHEET (2/13)



DAC-RST ← DAC-RST  
96K-DAC ← 96K-DAC  
DEEMP ← DEEMP  
FGAIN ← FGAIN

	FB715 717 719
USA CANADA	OPEN
EUROPE ASIA	CK0.01





**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  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 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

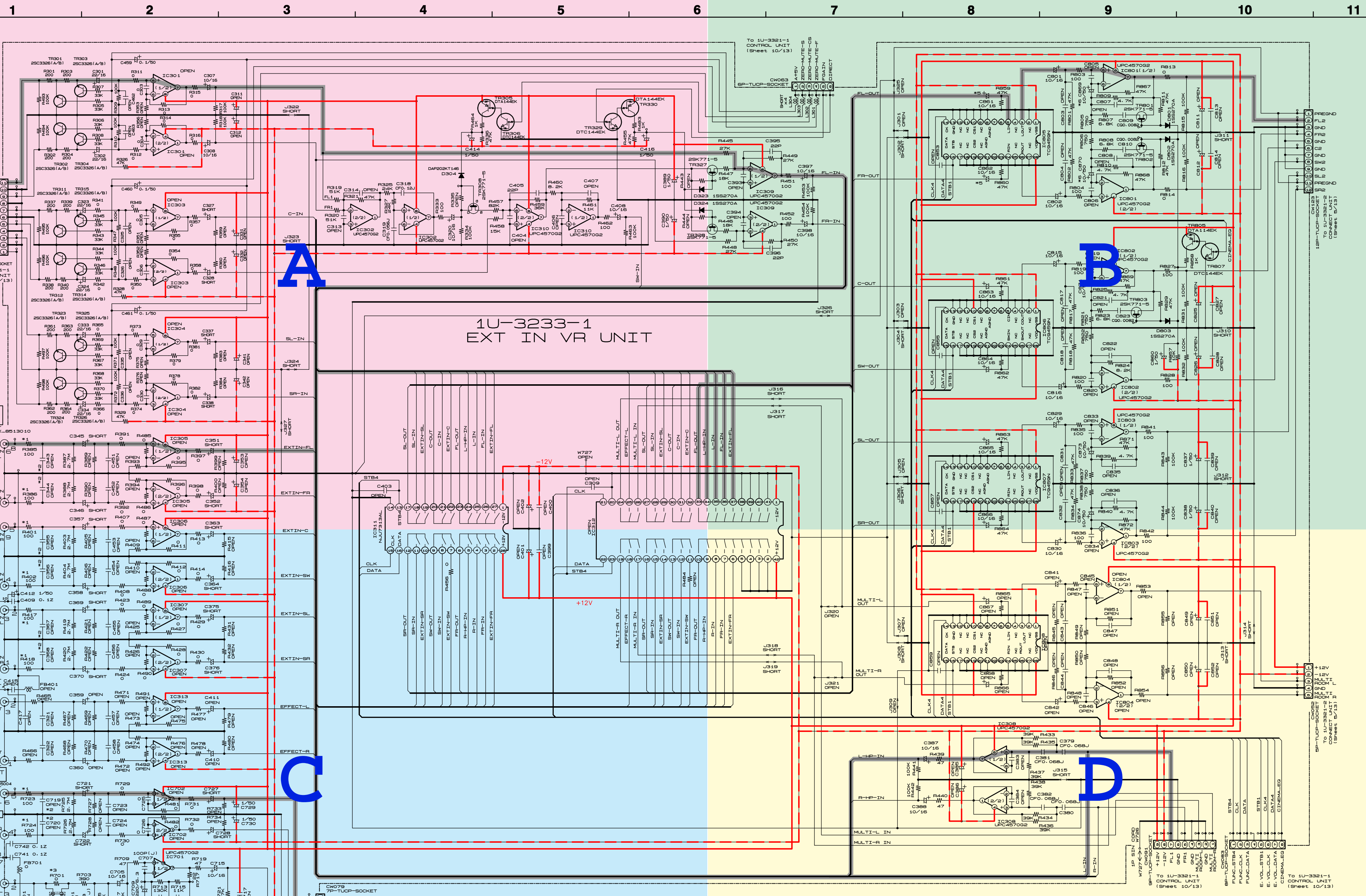
**WARNING:**

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



D  
E  
F  
G  
H

SCHEMATIC DIAGRAMS (4/13)

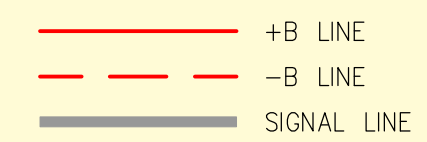


	*1	*2	*3	*4	*5	*6
USA CANADA	386.401.408 217.418.723.724	344.355.356 367.368.719.720	R701 702	L701 702	C81 82	C89 870
EUROPE	470	330P	1.3K	FTZ CLICK COIL	47/16	47/16
ASIA: CHINA HONG KONG	100	---	0	---	10/16	10/16
TAIWAN R.O.C	470	330P	1.3K	FTZ CLICK COIL	10/16	10/16

**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.

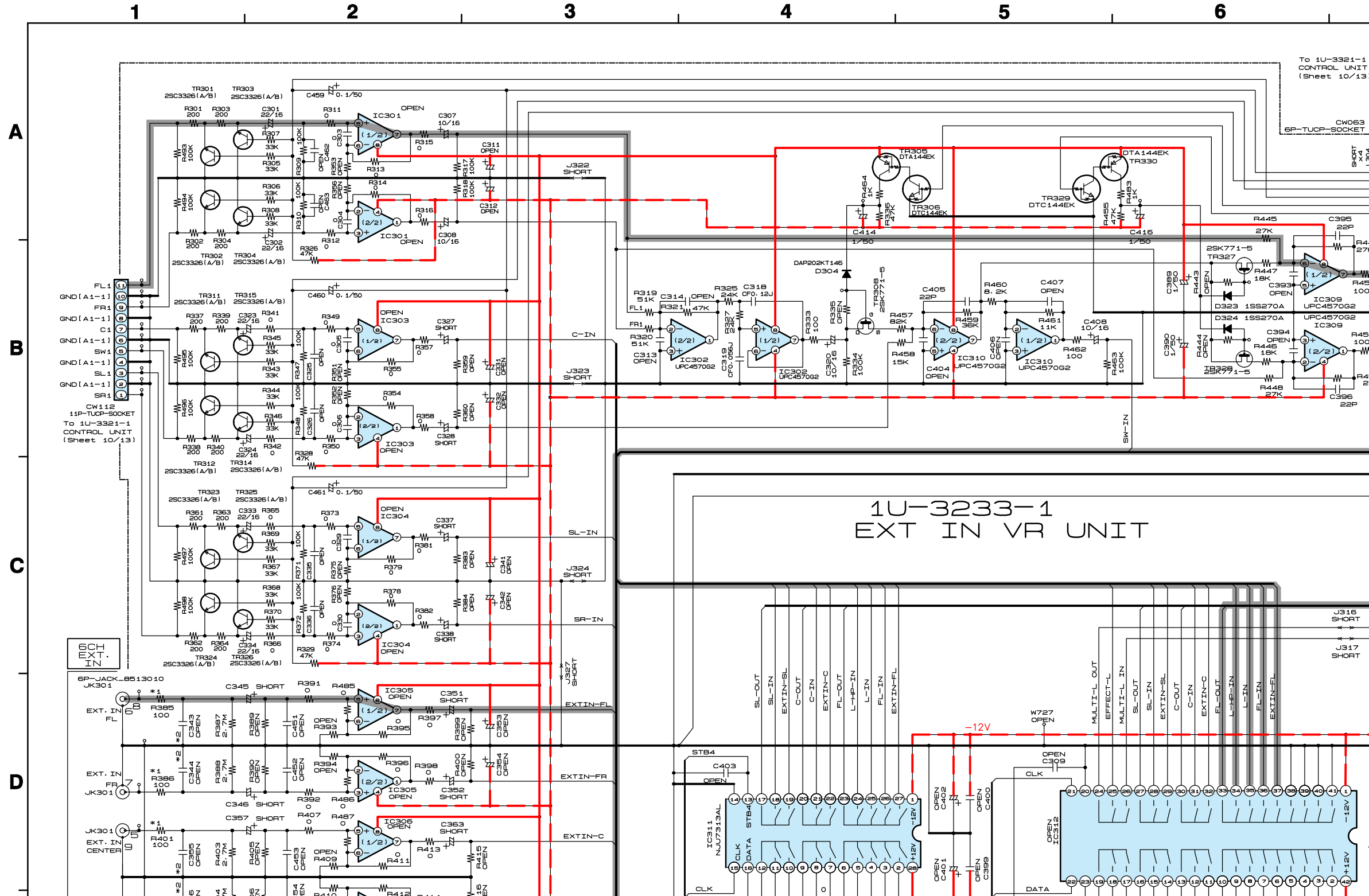
**WARNING:**  
Parts marked with this symbol have critical characteristics.  
Use ONLY replacement parts recommended by the manufacturer.  
**CAUTION:**  
Before returning the unit to the customer, make sure you make either (1) a  
leakage current check or (2) a line to chassis resistance check. If the leakage  
current exceeds 0.5 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.

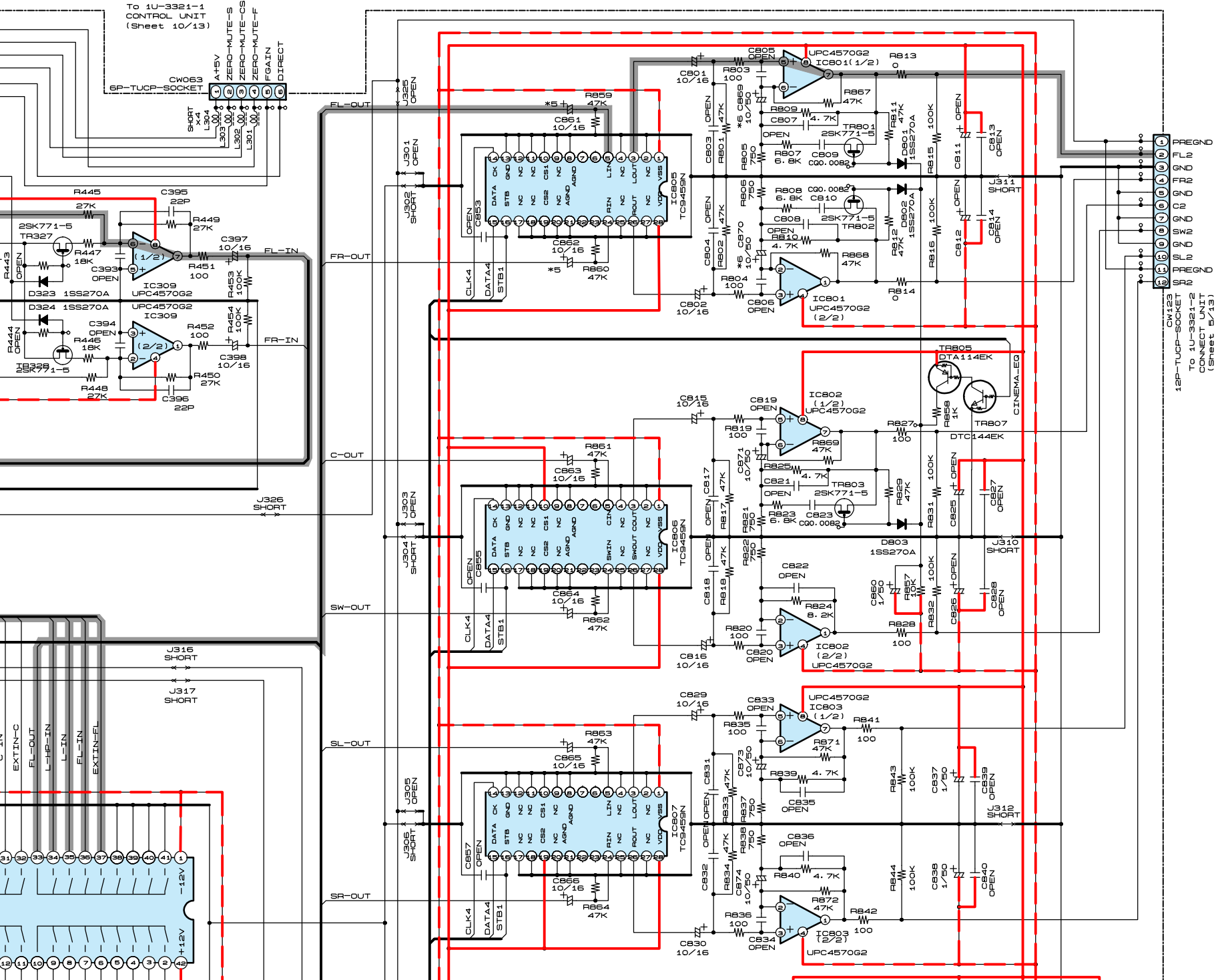


SCHEMATIC DIAGRAMS (4/13)  
1U-3233-1 EXT VR UNIT

# SCHEMATIC DIAGRAMS (4/13)

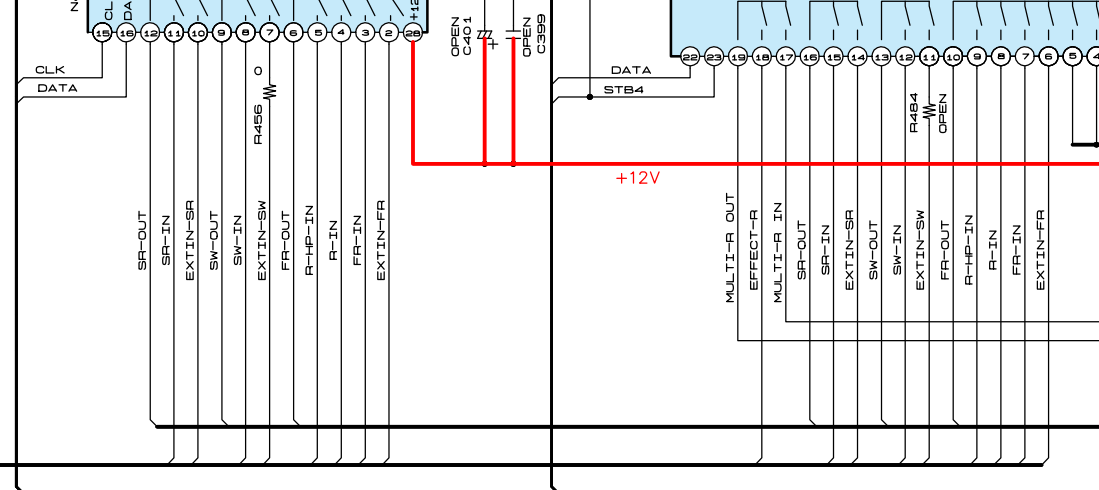
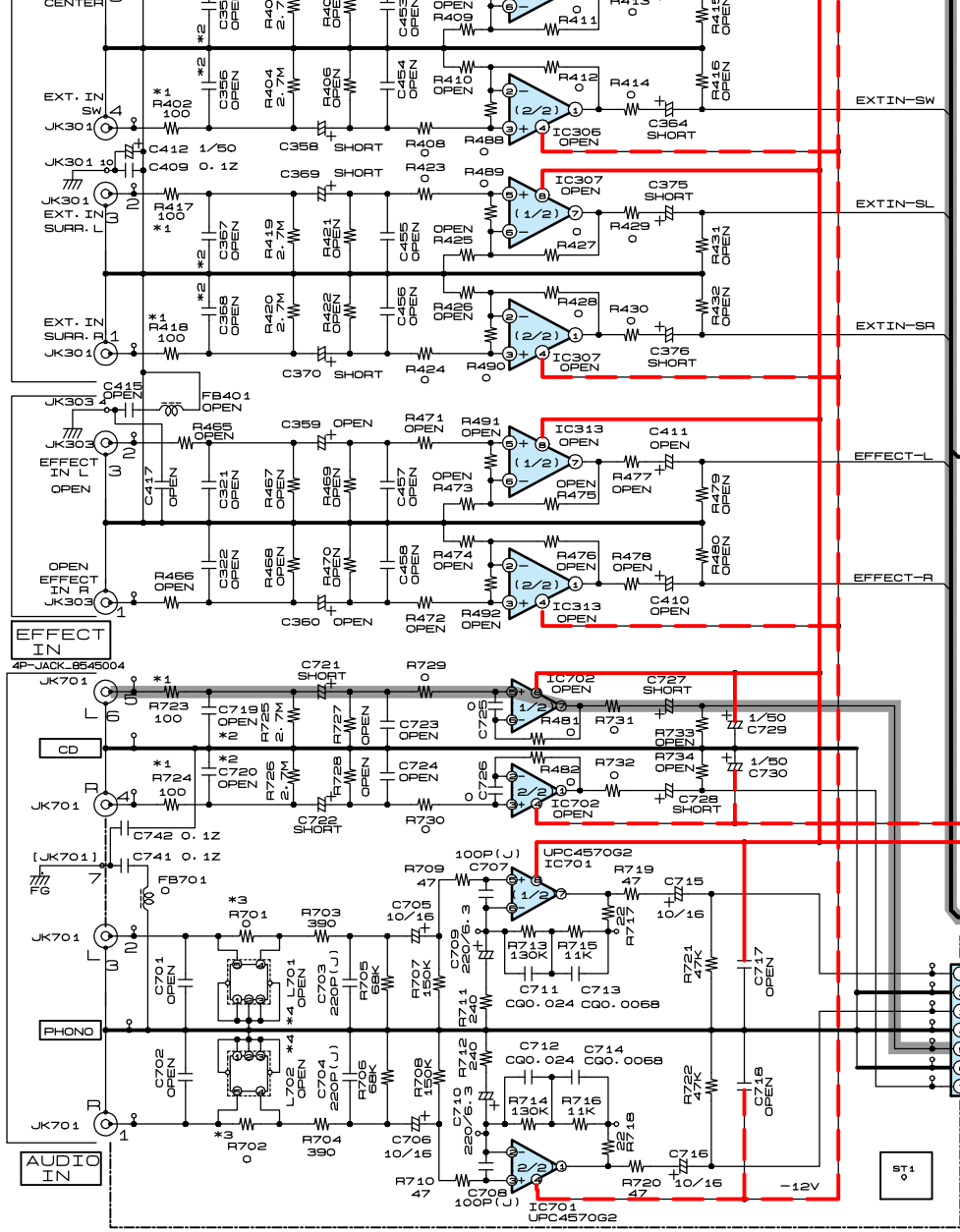






12P-TUCP-SOCKET  
 To 1U-3921-2  
 CONNECT UNIT  
 (Sheet 5/13)

To 1U-3921-1  
 CONTROL UNIT  
 (Sheet 10/13)



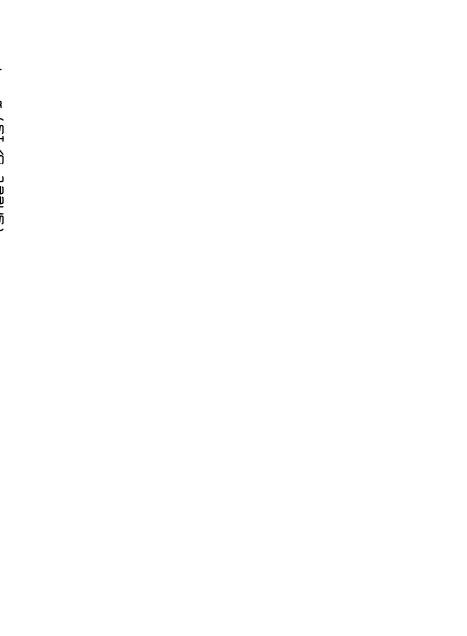
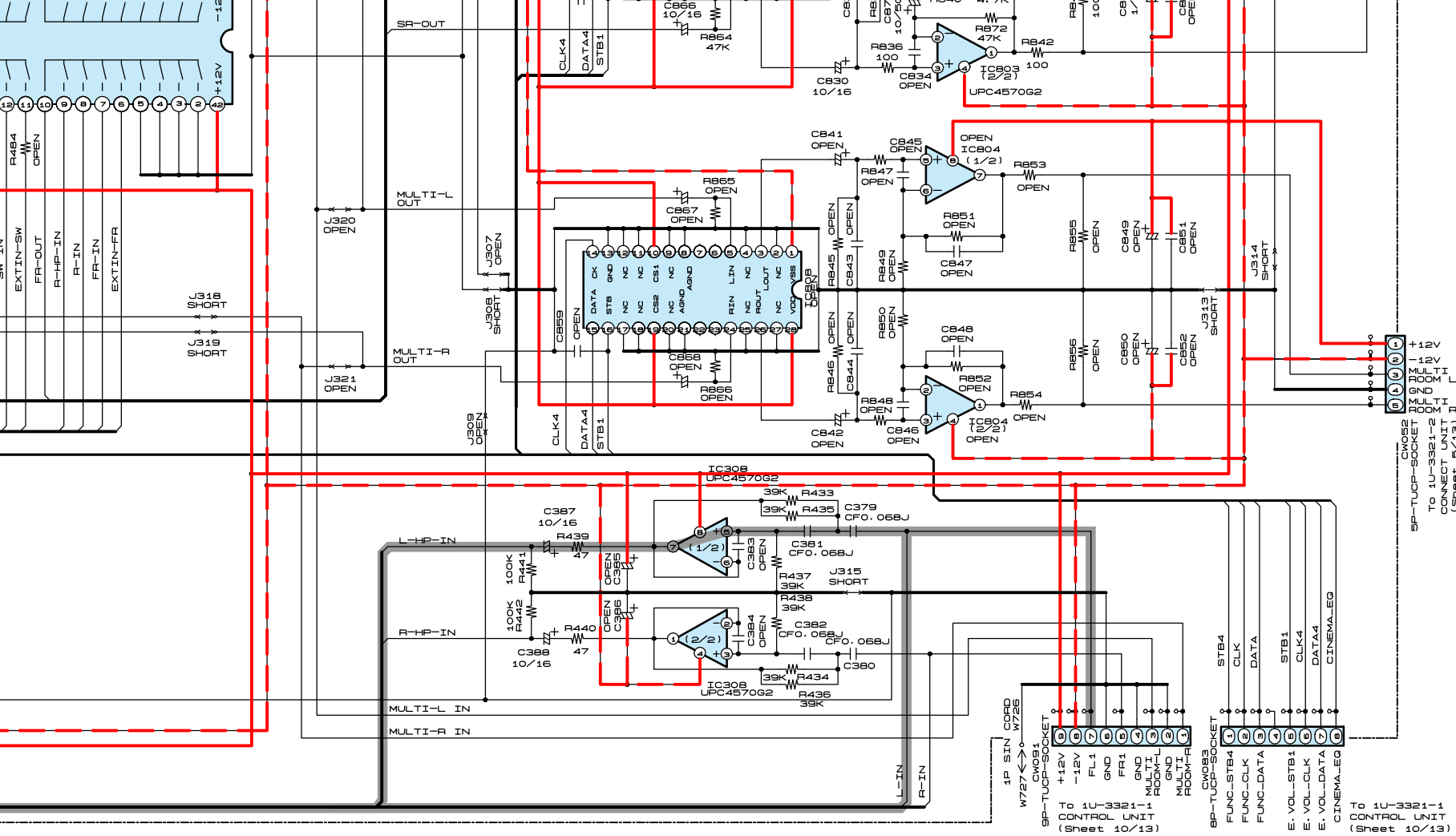
CW079  
7P-TUCP-SOCKET

PHONO L  
GND  
PHONO R  
GND  
CD L  
GND  
CD R


To 1U-3321-1  
CONTROL UNIT  
(Sheet 10/13)

	*1	*2	*3	*4	*5	*6
* USA CANADA	R385, 386, 401, 402 417, 418, 723, 724	C343, 344, 355, 356 367, 368, 719, 720	R701 702	L701 702	C861 862	C869 870
EUROPE	470	330P	1.3K	FTZ CHOKE COIL	47/16	47/16
ASIA, CHINA HONG KONG	100	---	0	---	10/16	10/16
TAIWAN R. O. C.	470	330P	1.3K	FTZ CHOKE COIL	10/16	10/16

**NOTICE**  
ALL RESISTANCE VALUE  
ALL CAPACITANCE VALUE  
EACH VOLTAGE AND  
CONDITION.  
CIRCUIT AND PARTS  
NOTICE.



**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  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 milliamps, or if the resistance from chassis to either side  
 of the power cord is less than 460 kohms, the unit is defective.

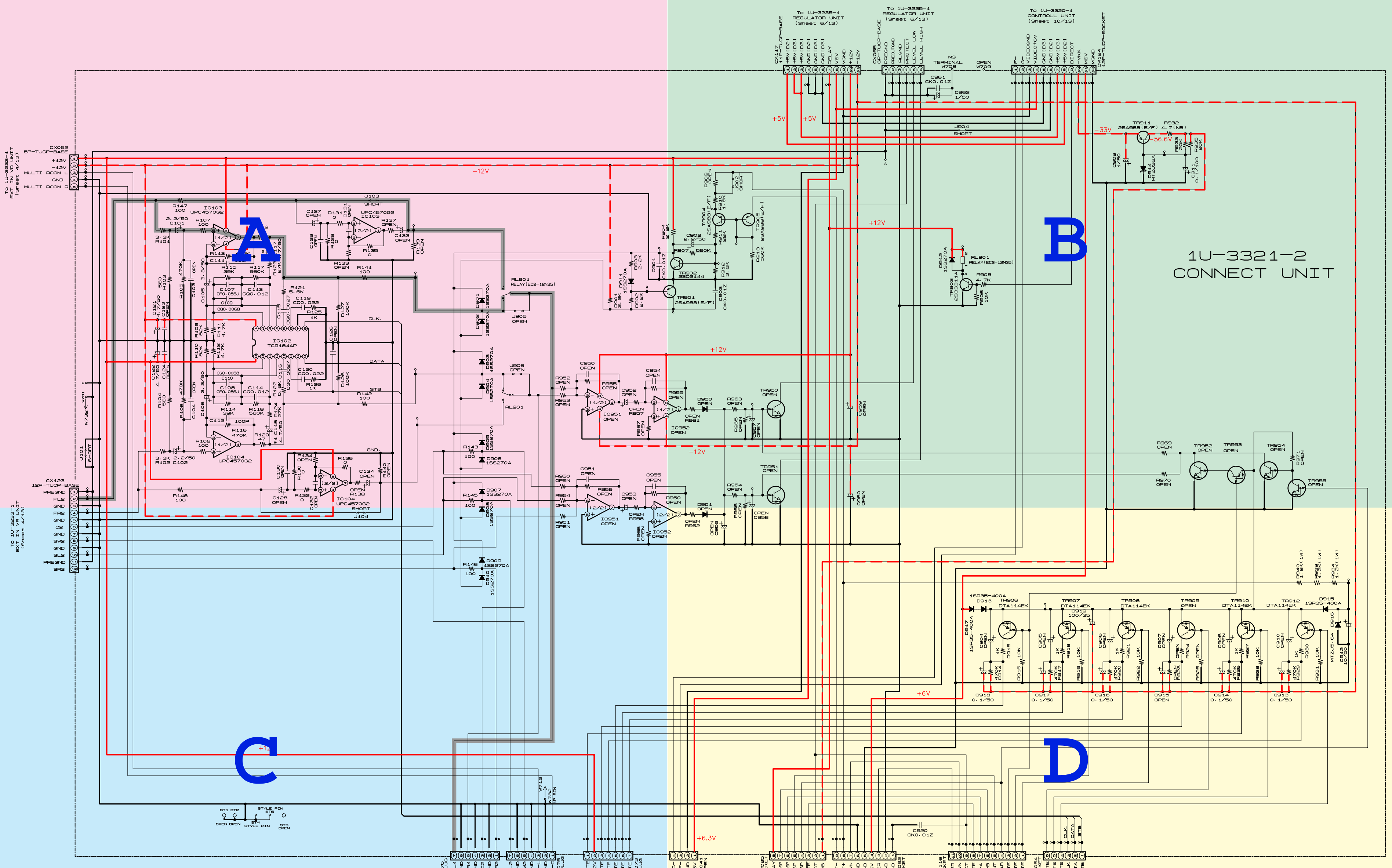
**WARNING:**  
 DO NOT return the unit to the customer until the problem is located and  
 corrected.

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

**SCHEMATIC DIAGRAMS (4/13)**  
**1U-3233-1 EXT VR UNIT**

SCHEMATIC DIAGRAMS (5/13)


1 2 3 4 5 6 7 8 9 10 11



1U-3321-2 CONNECT UNIT

*1	C117, 118
*USA CANADA ASIA CHINA YAZMAN R.D.C HONG KONG	4.7/50
EUROPE	47/16

**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  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 milliamps, 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 (5/13)

1

2

3

4

5

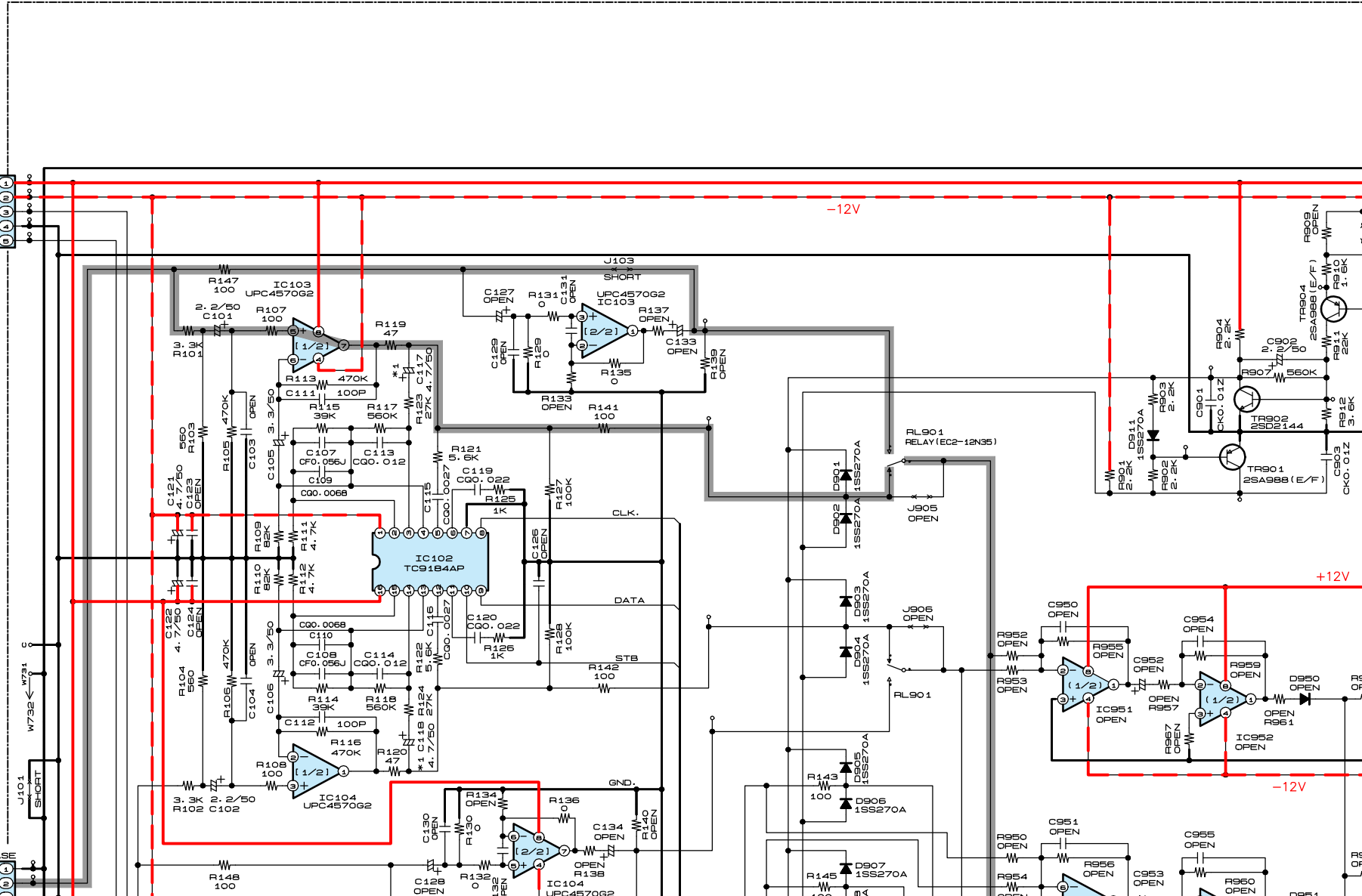
6

TO 1U-3633-1  
EXT IN VR UNIT  
(Sheet 4/13)

CX052  
5P-TUCP-BASE

+12V  
+12V  
MULTI ROOM L  
GND  
MULTI ROOM R

CX123  
12P-TUCP-BASE  
PREGND  
FL2





7

8

9

10

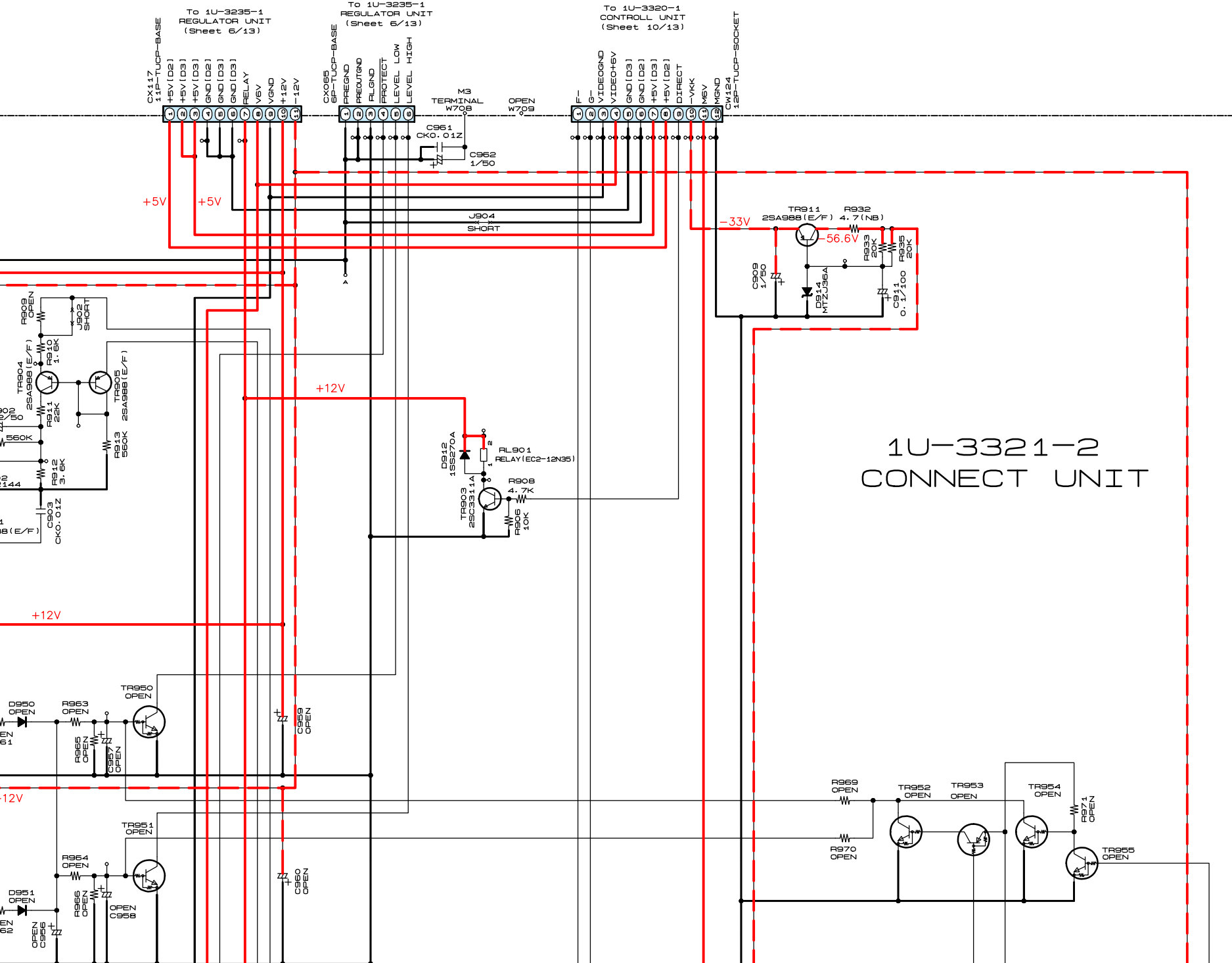
11

A

B

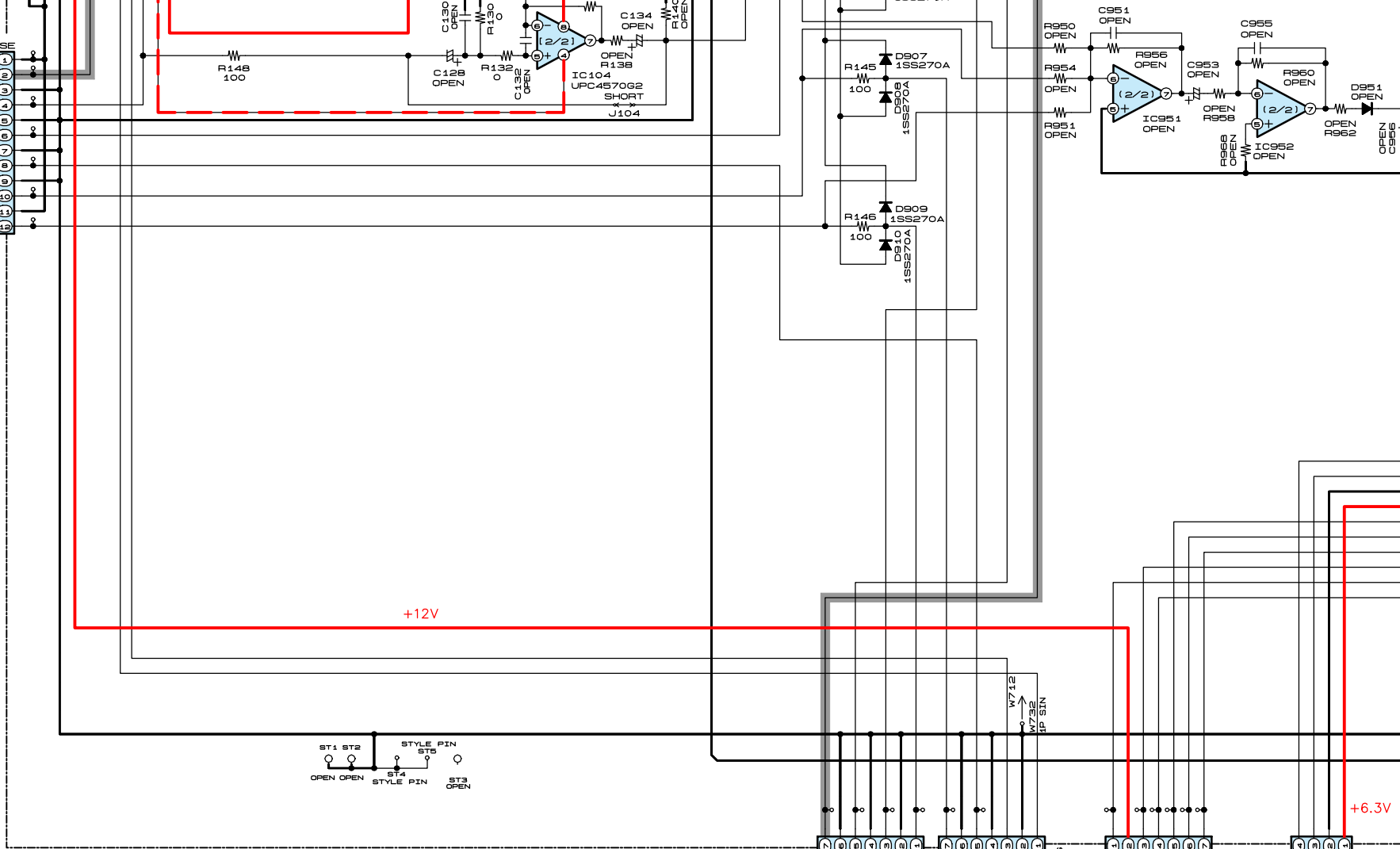
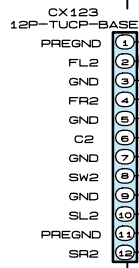
C

D

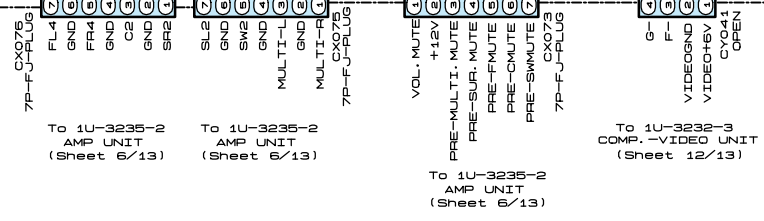


1U-3321-2  
CONNECT UNIT

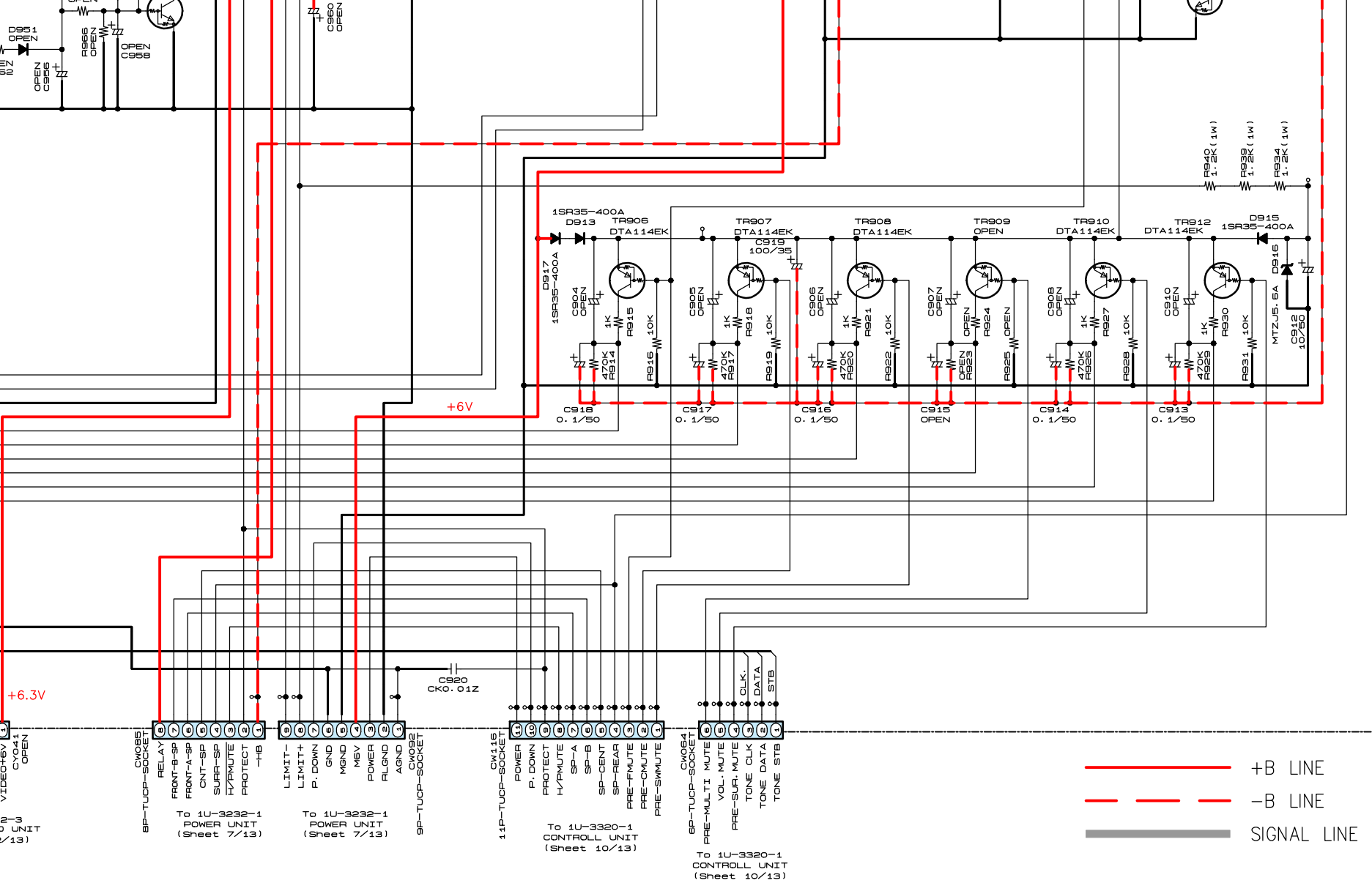
To 1U-3233-1  
EXT IN VR UNIT  
(Sheet 4/13)



	*1 C117. 118
* USA CANADA ASIA CHINA TAIWAN R. O. C HONG KONG	4. 7/50
EUROPE	47/16



**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  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 milliamps, 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 (5/13)**  
**1U-3321-2 CONNECT UNIT**

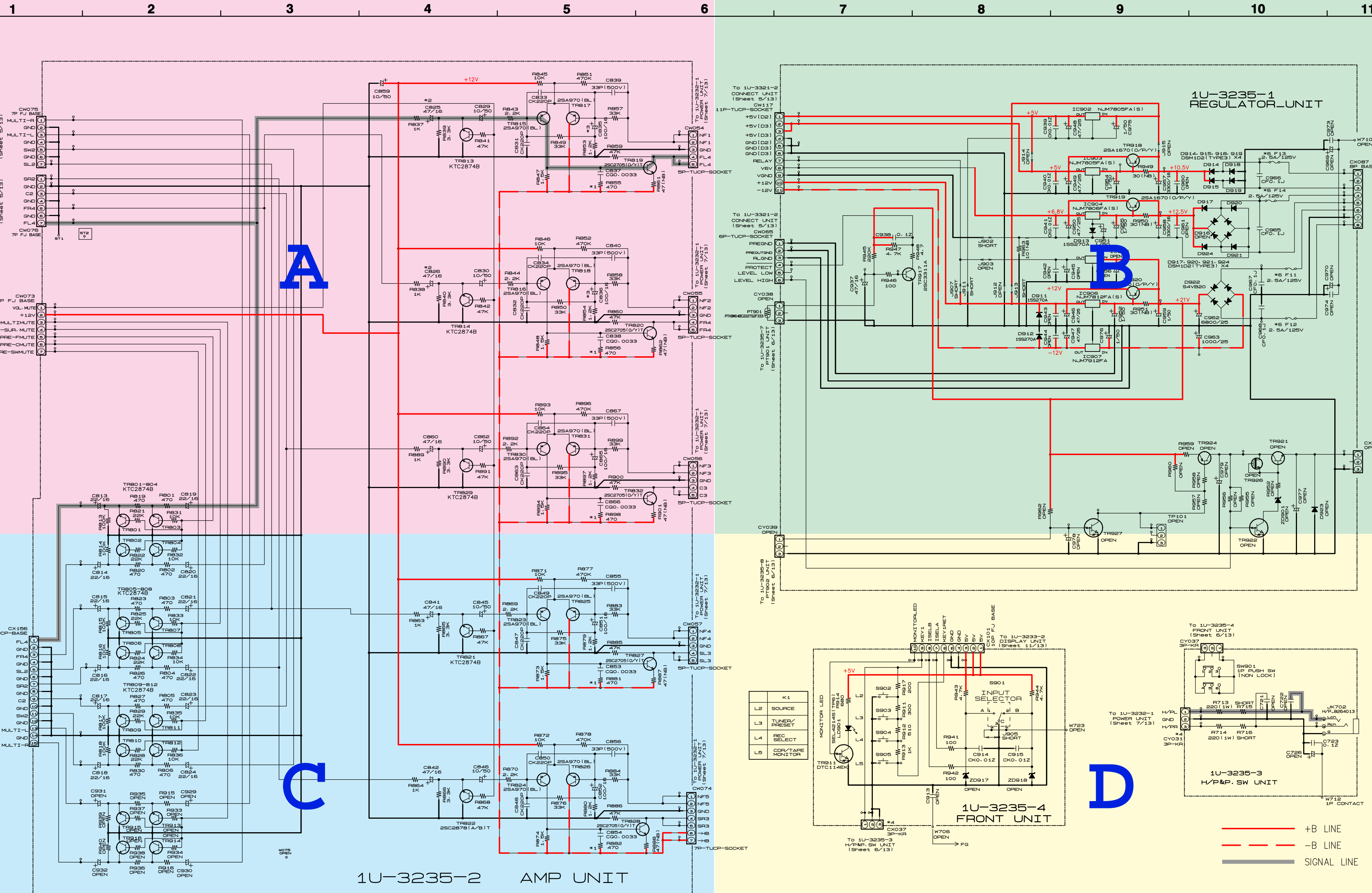
F

F

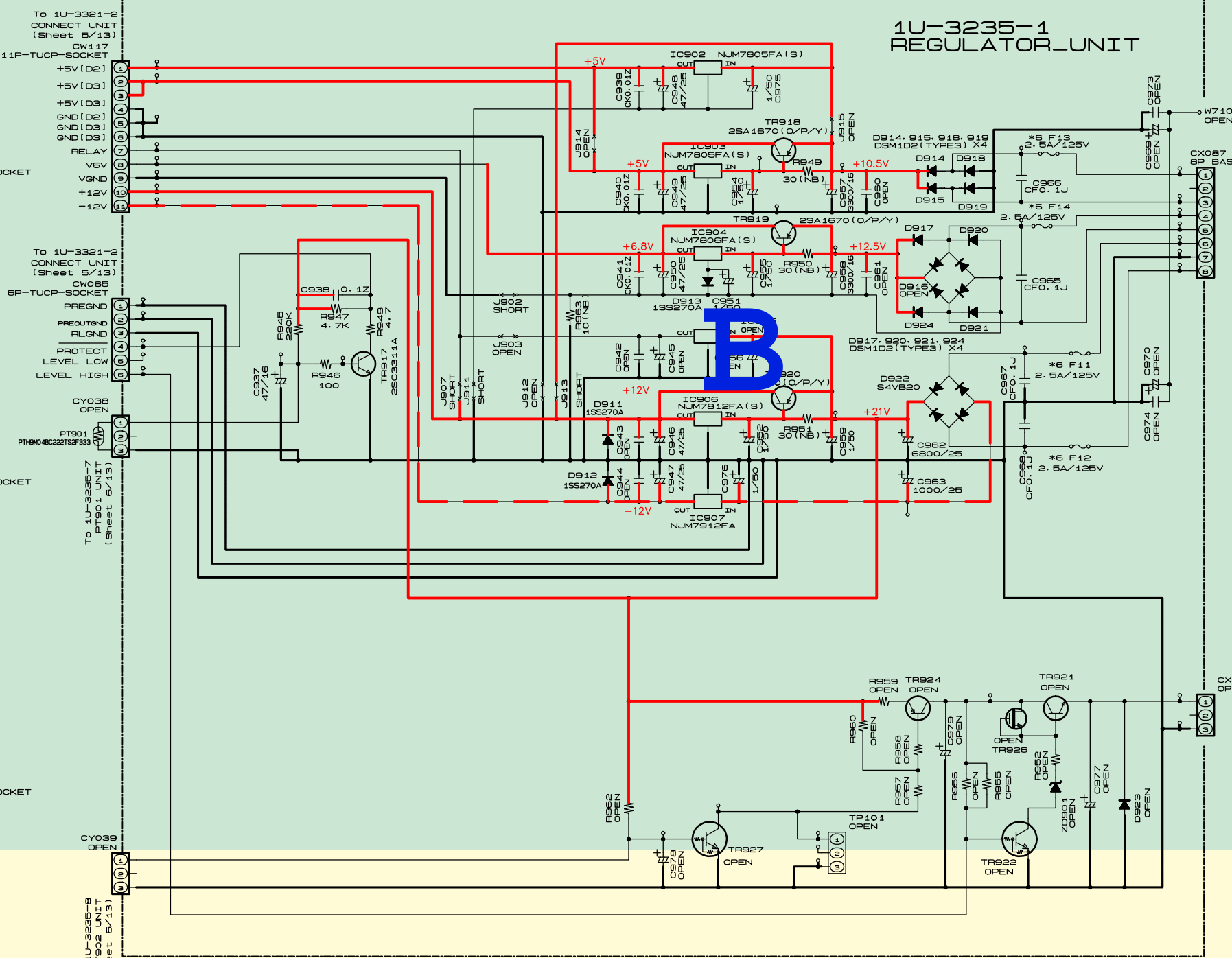
G

H

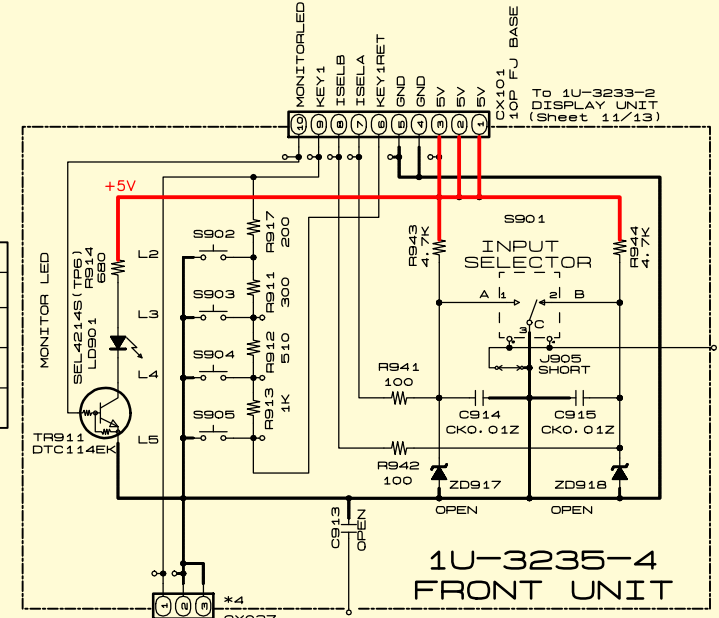
**SCHEMATIC DIAGRAMS (6/13)**



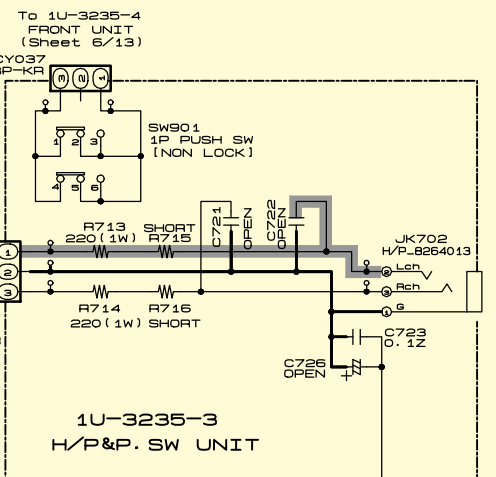
**1U-3235-2 AMP UNIT**



**1U-3235-1 REGULATOR UNIT**



**1U-3235-4 FRONT UNIT**



**1U-3235-3 H/P & P.SW UNIT**

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

	*1	*2	*3	*4	*5	*6	*7	*8
	RB55, 855, 881 882, 898	CB25 826	CB35 836	CX037 CY037	SWG01	F11, 12 13, 14	JK702	C721, 722
* USA CANADA	470	47/16	100/16	3P KR	1P PUSH SW	2.5A/125V	H/P JACK (NI)	---
EUROPE	330	100/16	220/16	---	---	2.5A/250V	H/P JACK (NI)	COO.001
ASIA HONG KONG	470	47/16	100/16	---	---	2.5A/250V	H/P JACK (GOLD)	---
CHINA	470	47/16	100/16	---	---	2.5A/250V	H/P JACK (GOLD)	---
TAIWAN P. O. C	470	47/16	100/16	---	---	2.5A/125V	H/P JACK (GOLD)	---

**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.

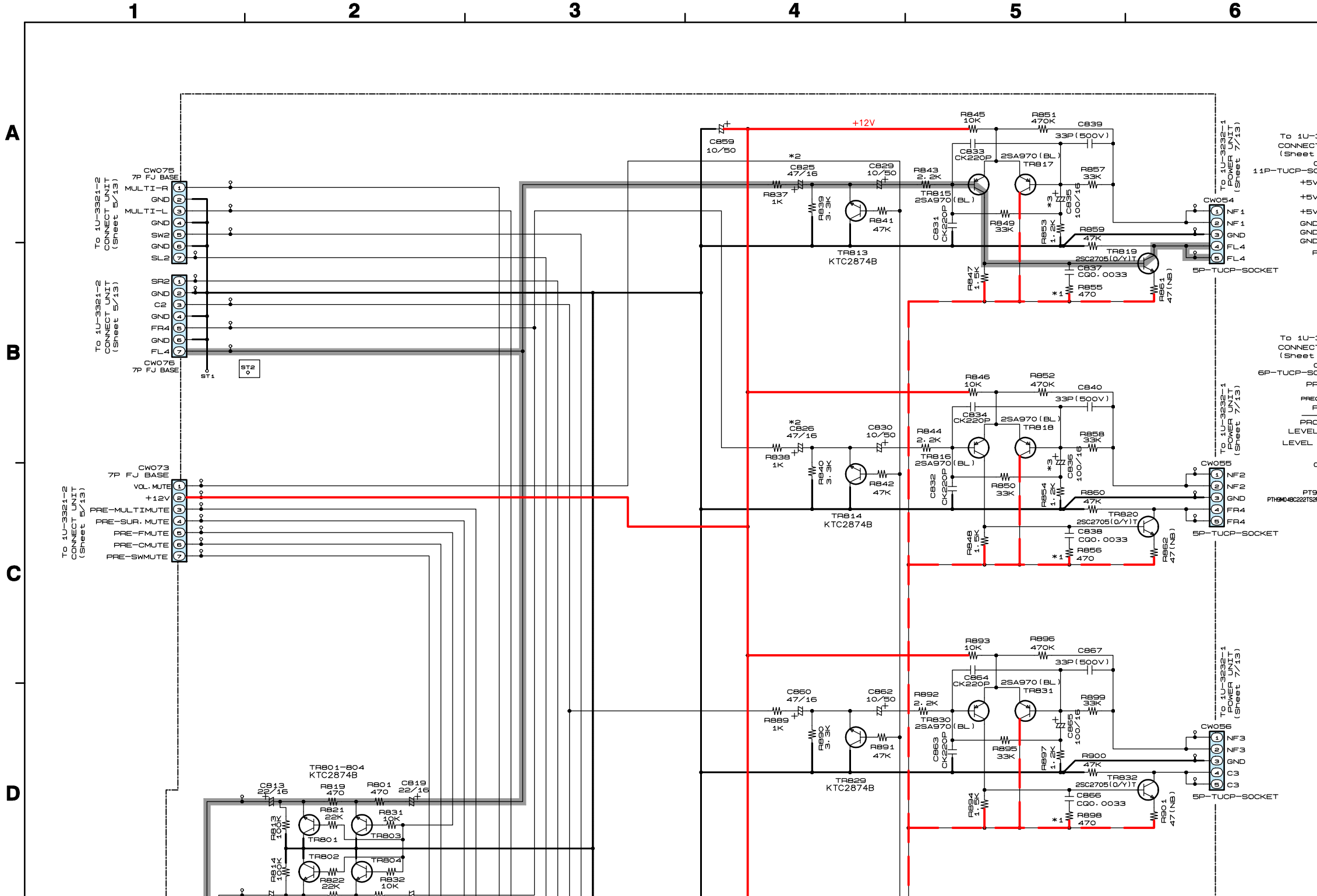
**WARNING:**  
 Parts marked with this symbol have critical characteristics.  
 Use ONLY replacement parts recommended by the manufacturer.

**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.

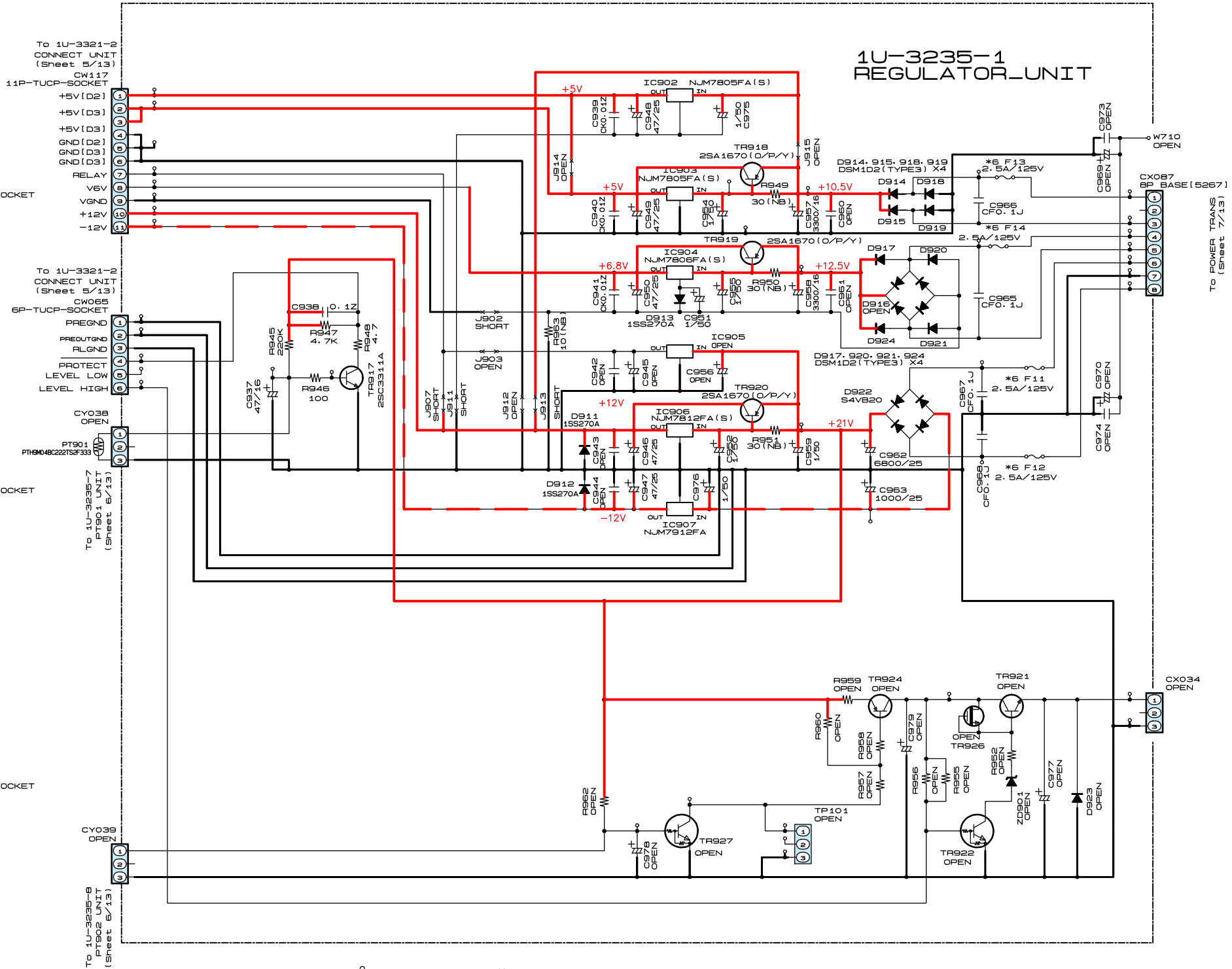
**SCHEMATIC DIAGRAMS (6/13)**  
 1U-3235-1 REGULATOR UNIT  
 1U-3235-2 AMP UNIT  
 1U-3235-3 H/P & P.SW UNIT  
 1U-3235-4 FRONT UNIT

# SCHEMATIC DIAGRAMS (6/13)





# 1U-3235-1 REGULATOR UNIT



To POWER TRANS (Sheet 7/13)

To 1U-3321-2 CONNECT UNIT (Sheet 5/13)  
 CW117 11P-TUCP-SOCKET  
 +5V (D2)  
 +5V (D3)  
 +5V (D3)  
 GND (D2)  
 GND (D3)  
 RELAY  
 V6V  
 VGND  
 +12V  
 -12V

To 1U-3321-2 CONNECT UNIT (Sheet 5/13)  
 CW065 6P-TUCP-SOCKET  
 PREGND  
 PREGOUTGND  
 RLGND  
 PROTECT LEVEL LOW  
 LEVEL HIGH  
 CY038 OPEN

PT901 PTH904BC222152F333

To 1U-3235-7 PT901 UNIT (Sheet 6/13)

To 1U-3235-8 PT902 UNIT (Sheet 6/13)

CY039 OPEN

LED

BASE

CX034 OPEN

W710 OPEN

CX087 8P BASE (5267)

C970 OPEN

C974 OPEN

C977 OPEN

D923 OPEN

Z924 OPEN

TR922 OPEN

TR921 OPEN

TR924 OPEN

TR925 OPEN

TR926 OPEN

TR927 OPEN

TR928 OPEN

TR929 OPEN

TR930 OPEN

TR931 OPEN

TR932 OPEN

TR933 OPEN

TR934 OPEN

TR935 OPEN

TR936 OPEN

TR937 OPEN

TR938 OPEN

TR939 OPEN

TR940 OPEN

TR941 OPEN

TR942 OPEN

TR943 OPEN

TR944 OPEN

TR945 OPEN

TR946 OPEN

TR947 OPEN

TR948 OPEN

TR949 OPEN

TR950 OPEN

TR951 OPEN

TR952 OPEN

TR953 OPEN

TR954 OPEN

TR955 OPEN

TR956 OPEN

TR957 OPEN

TR958 OPEN

TR959 OPEN

TR960 OPEN

TR961 OPEN

TR962 OPEN

TR963 OPEN

TR964 OPEN

TR965 OPEN

TR966 OPEN

TR967 OPEN

TR968 OPEN

TR969 OPEN

TR970 OPEN

TR971 OPEN

TR972 OPEN

TR973 OPEN

TR974 OPEN

TR975 OPEN

TR976 OPEN

TR977 OPEN

TR978 OPEN

TR979 OPEN

TR980 OPEN

TR981 OPEN

TR982 OPEN

TR983 OPEN

TR984 OPEN

TR985 OPEN

TR986 OPEN

TR987 OPEN

TR988 OPEN

TR989 OPEN

TR990 OPEN

TR991 OPEN

TR992 OPEN

TR993 OPEN

TR994 OPEN

TR995 OPEN

TR996 OPEN

TR997 OPEN

TR998 OPEN

TR999 OPEN

TR1000 OPEN

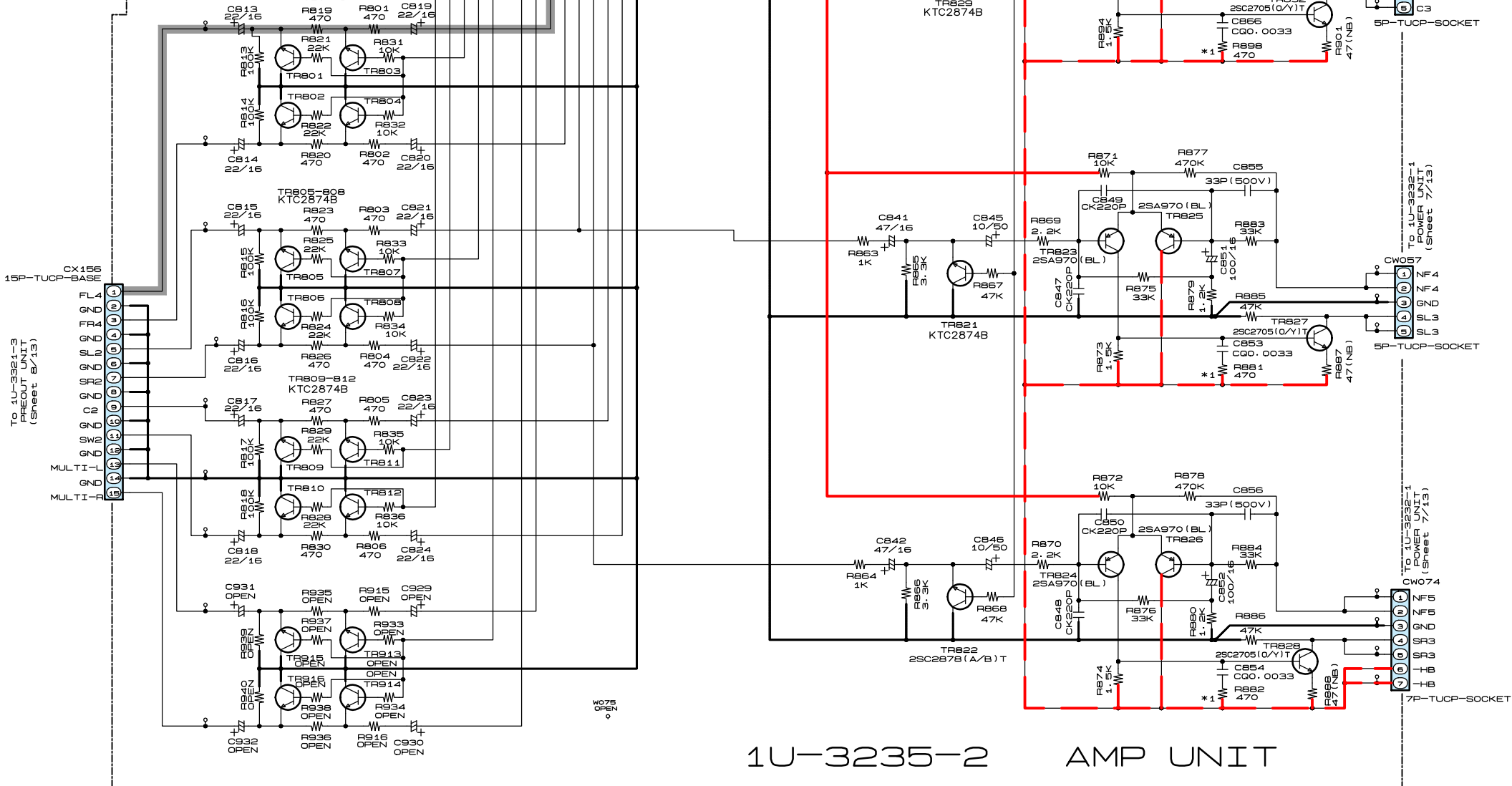
D

E

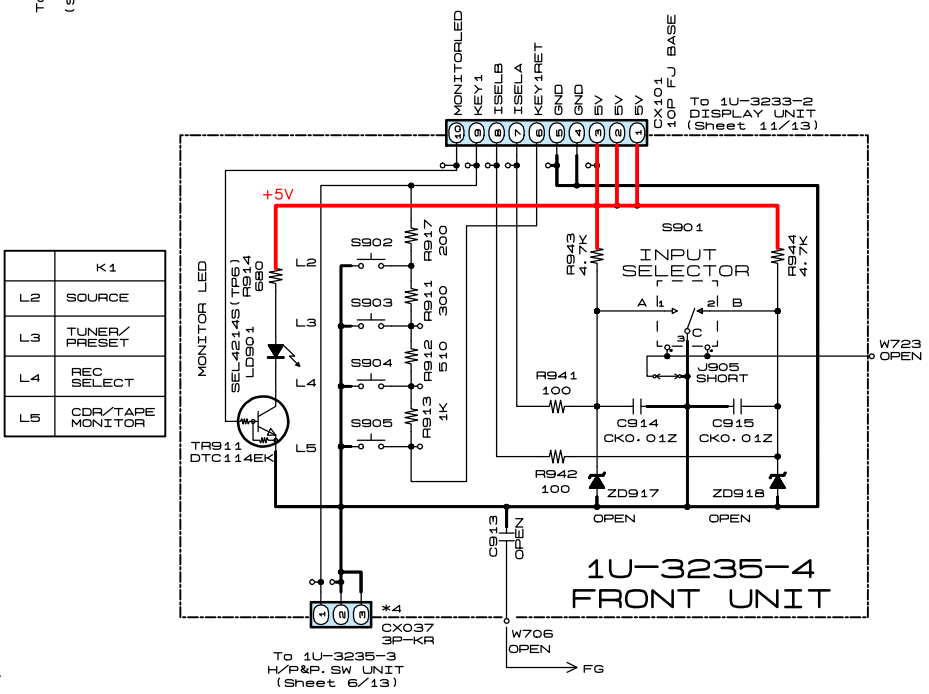
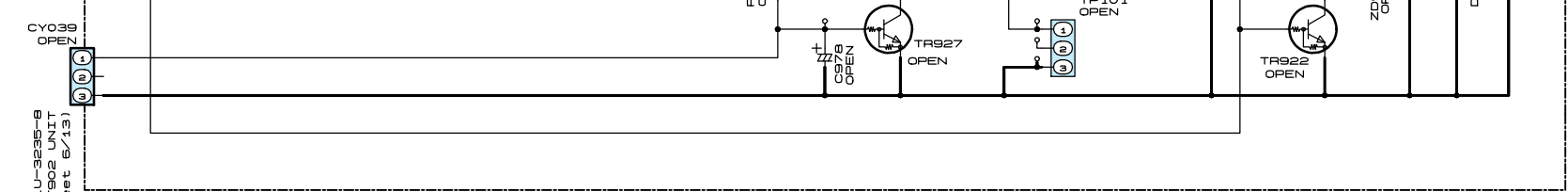
F

G

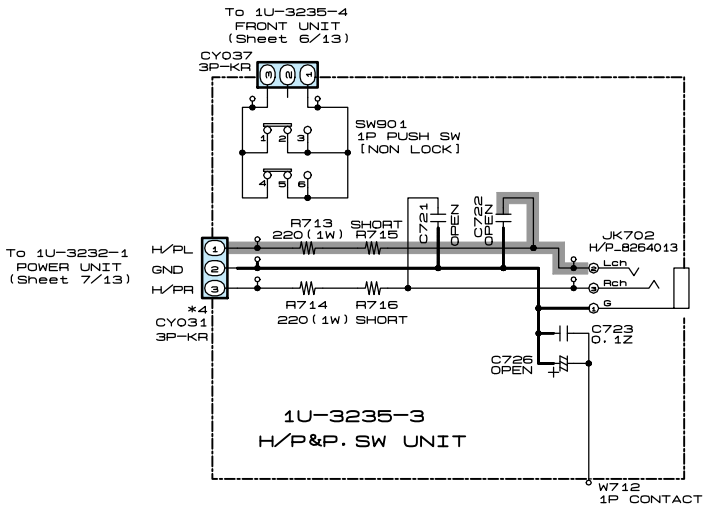
H



	*1	*2	*3	*4	*5	*6	*7	*8
	R885, 886, 888, 889	C825, 826	C835, 836	CX037, CW057	SW901	F11, 12, 13, 14	JK702	C721, 722
* USA CANADA	470	47/16	100/16	3P KR	1P PUSH SW	2.5A/125V	H/P JACK (NI)	---
EUROPE	330	100/16	220/16	---	---	2.5A/250V	H/P JACK (NI)	C00.001
ASIA HONG KONG	470	47/16	100/16	---	---	2.5A/250V	H/P JACK (GOLD)	---
CHINA	470	47/16	100/16	---	---	2.5A/250V	H/P JACK (GOLD)	---
TAIWAN R. O. C	470	47/16	100/16	---	---	2.5A/125V	H/P JACK (GOLD)	---



	K1
L2	SOURCE
L3	TUNER/PRESET
L4	REC SELECT
L5	CDR/TAPE MONITOR



——— +B LINE  
- - - - - -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:**

Parts marked with this symbol 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 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

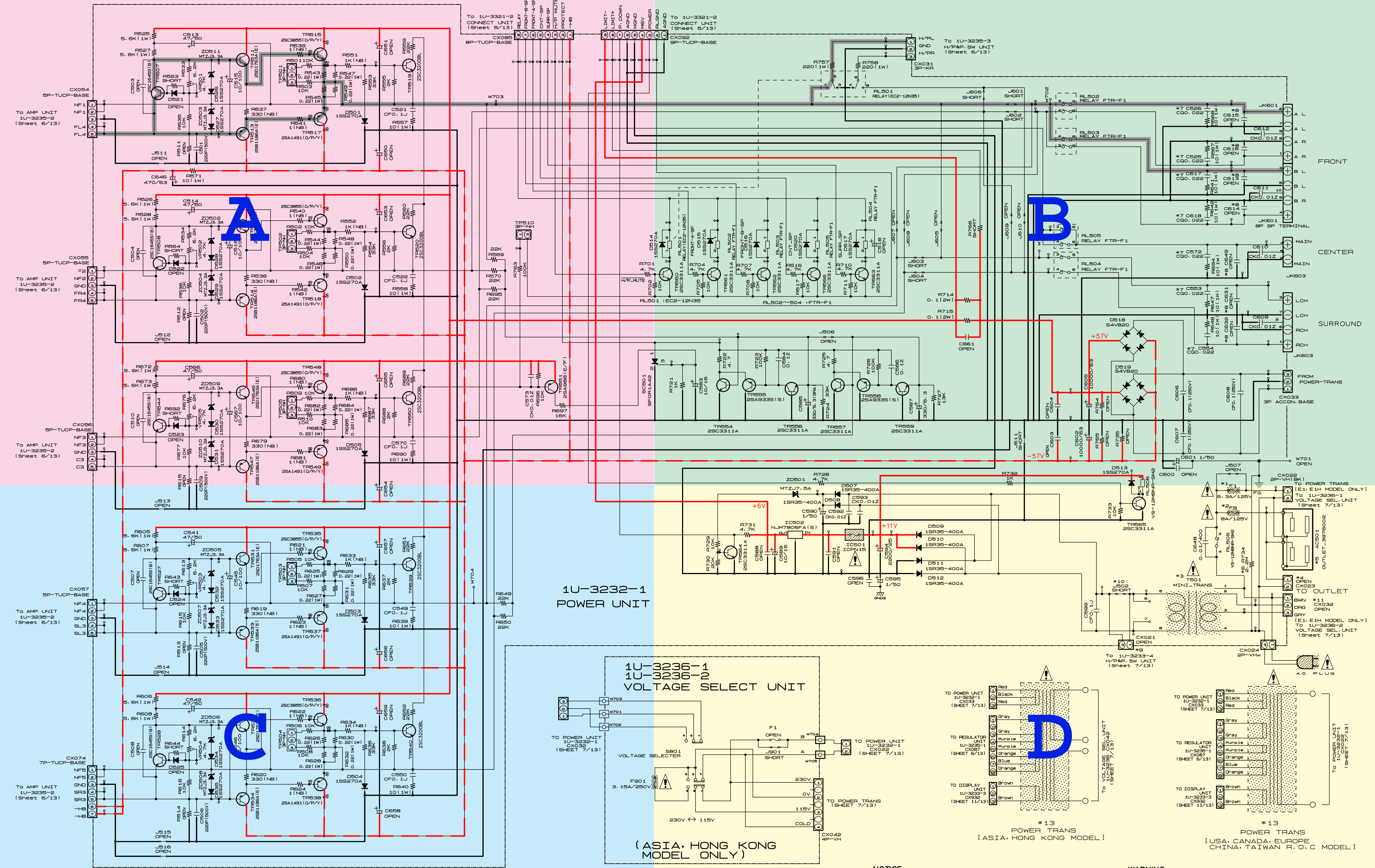
**WARNING:**

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

**SCHEMATIC DIAGRAMS (6/13)**  
 1U-3235-1 REGULATOR UNIT  
 1U-3235-2 AMP UNIT  
 1U-3235-3 H/P & P. SW UNIT  
 1U-3235-4 FRONT UNIT

SCHEMATIC DIAGRAMS (7/13)

1 2 3 4 5 6 7 8 9 10 11



	*1	*2	*3	*4	*5	*6	*7	*8	*9	*10	*11	*12	*13
	F1	F2	T501	CX023	AC501	R734	C525, 526, 527, 528, 529, 530, 531, 532	C513, 514, 515, 516, 517, 518, 519, 520	CX021, CX022	J502	CX032	S901	POWER TRANS
* USA CANADA	6.3A/125V	8A/125V	2336073107	---	2P AC OUTLET	2.2M	COO.022	---	---	SHORT	---	---	2336296104
EUROPE	3.15A/250V	2.5A/250V	2336088025	2P VH	---	---	CFO.047J	COO.01	2P VH	OPEN	P. SW	---	2336302001
ASIA HONG KONG	6.3A/250V	2.5A/250V	2336278009	2P VH	---	---	COO.022	---	2P VH	OPEN	3P CQN BASE	P. SW	2336303000
CHINA	3.15A/250V	---	2336317009	---	---	---	COO.022	---	2P VH	OPEN	P. SW	---	2336318008
TAIWAN P.O.C	6.3A/125V	8A/125V	2336073107	---	---	---	COO.022	COO.01	2P VH	OPEN	---	---	2336296007

**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 ⚠ 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 milliamps, 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 (7/13)**  
 1U-3232-1 POWER UNIT  
 1U-3233-4 P.SW UNIT  
 1U-3236-1 VOLTAGE SELECT UNIT (Asia, Hong Kong model only)  
 1U-3236-2 VOLTAGE SELECT UNIT (Asia, Hong Kong model only)



# SCHEMATIC DIAGRAMS (7/13)

1

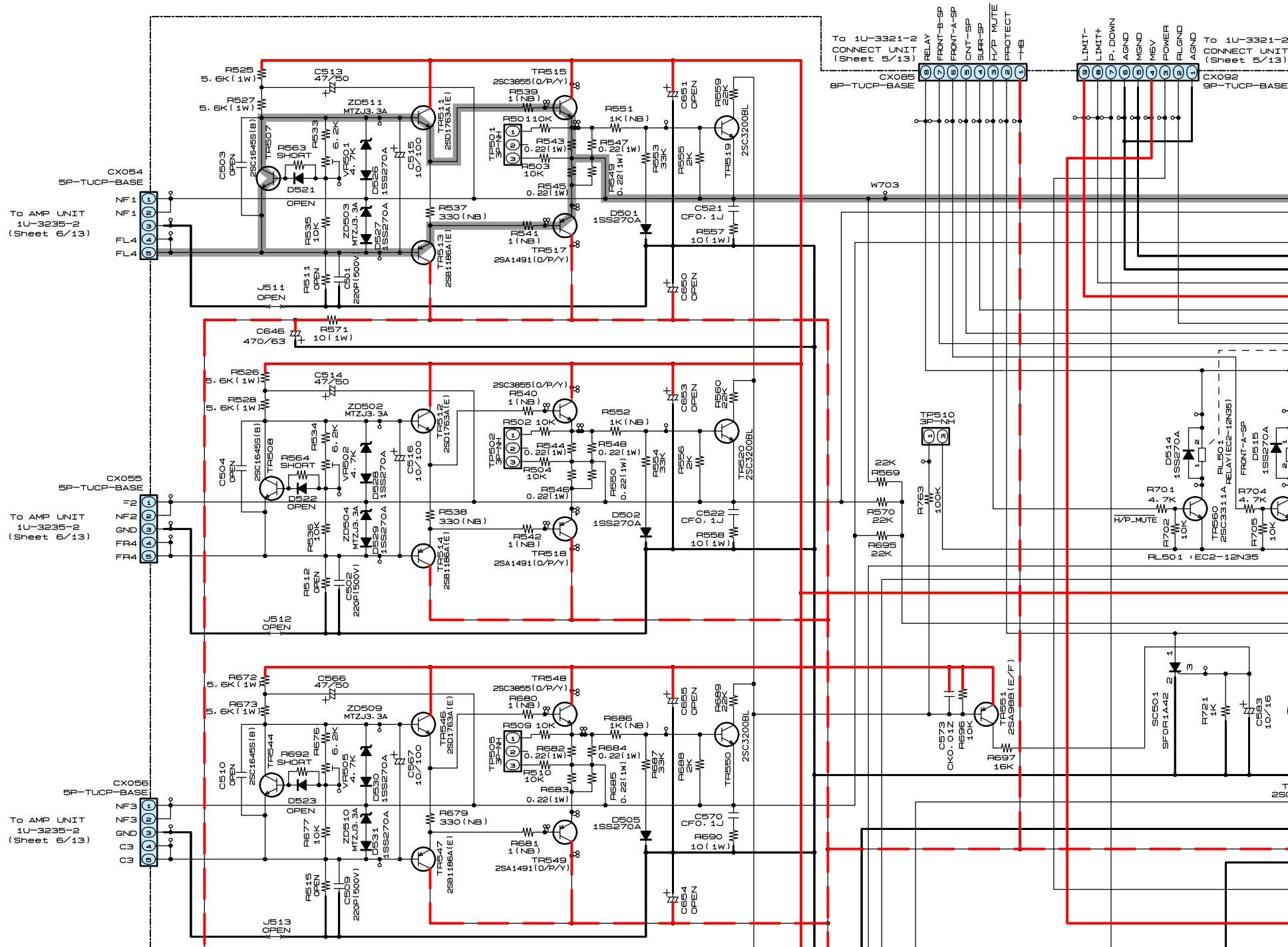
2

3

4

5

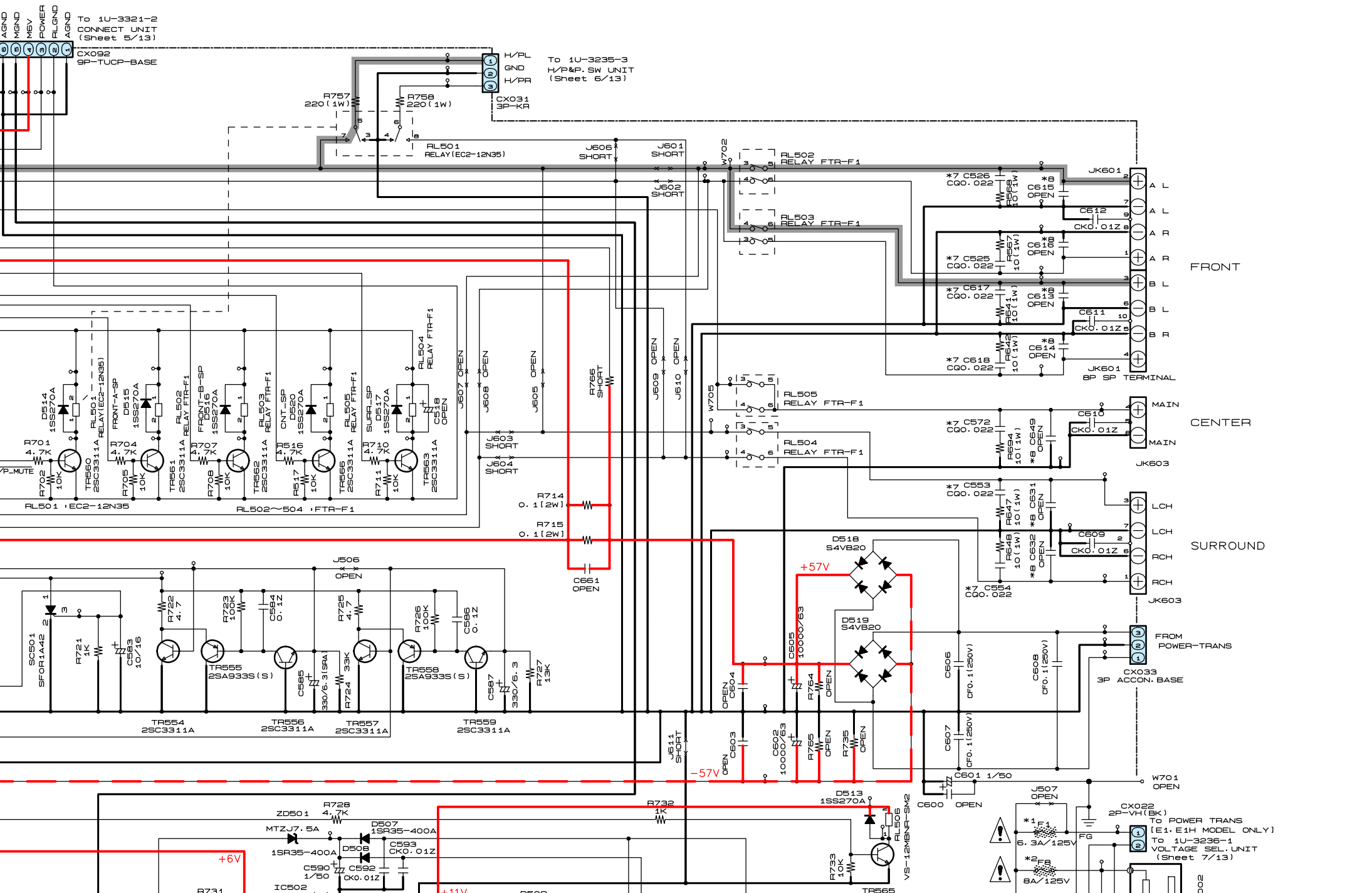
6





6 7 8 9 10 11

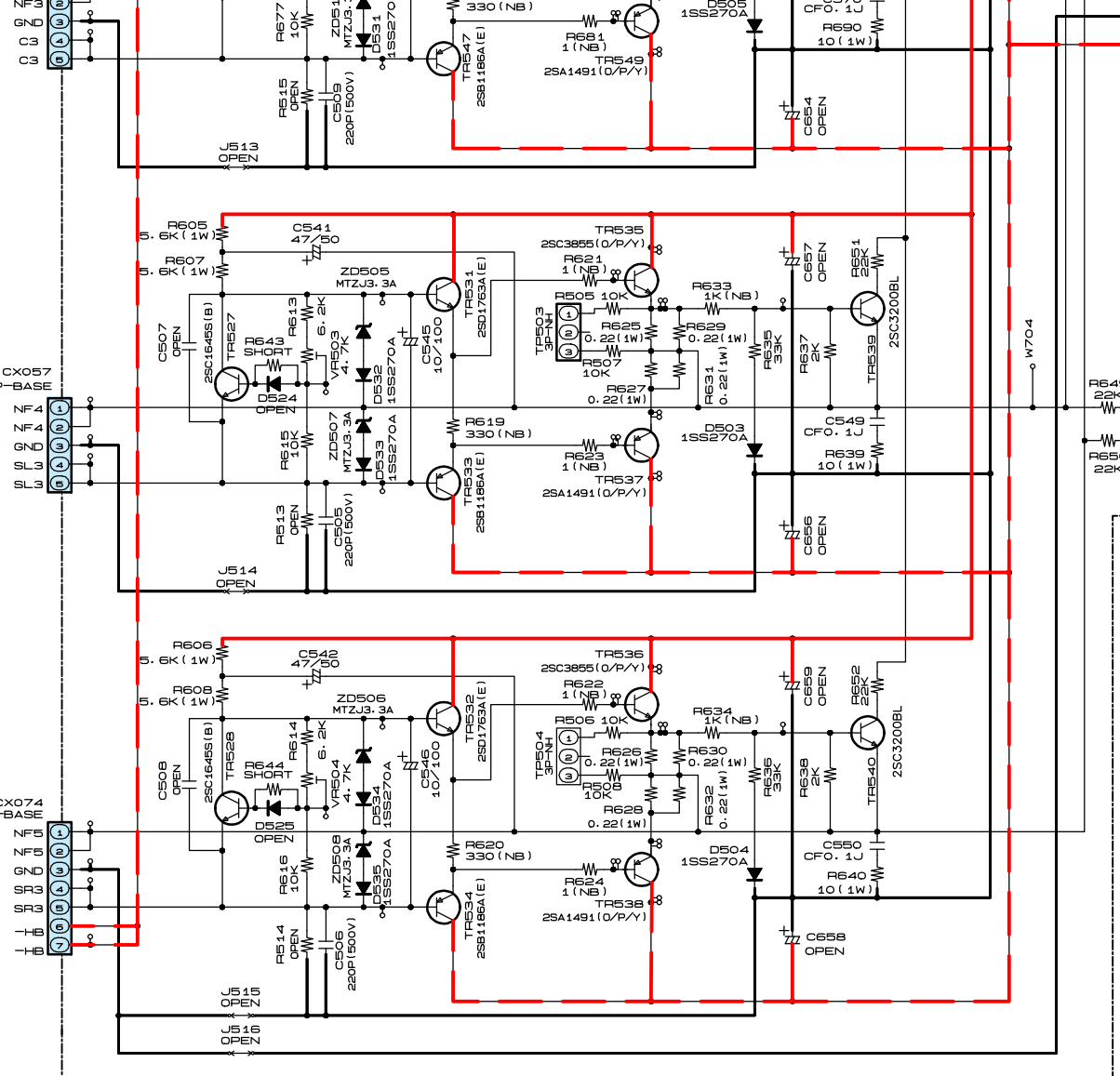
A  
B  
C  
D



To AMP UNIT  
1U-3235-2  
(Sheet 6/13)

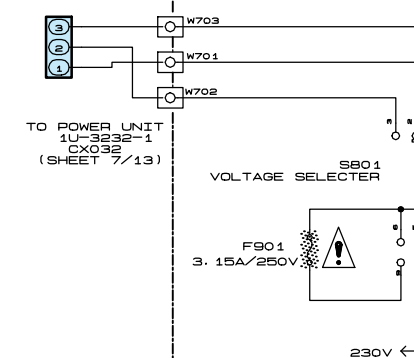
To AMP UNIT  
1U-3235-2  
(Sheet 6/13)

To AMP UNIT  
1U-3235-2  
(Sheet 6/13)



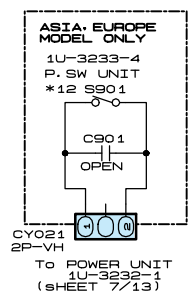
# 1U-3232-1 POWER UNIT

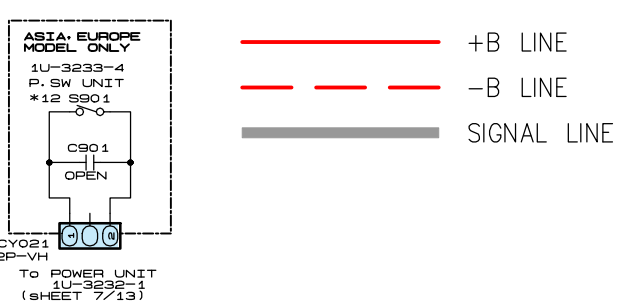
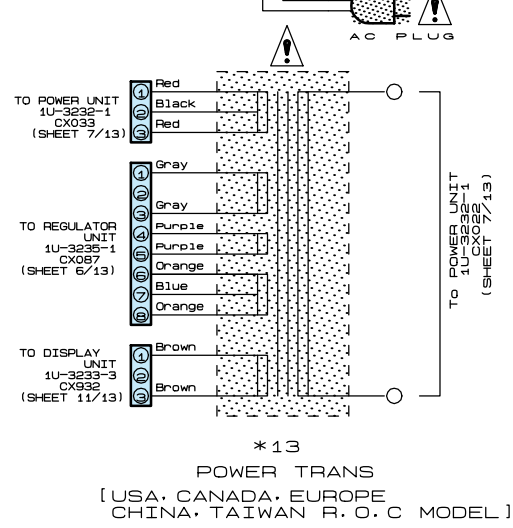
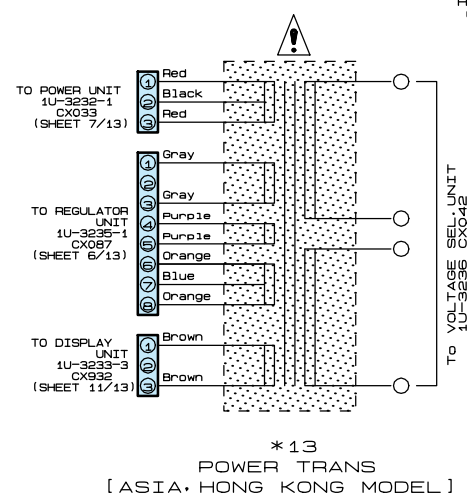
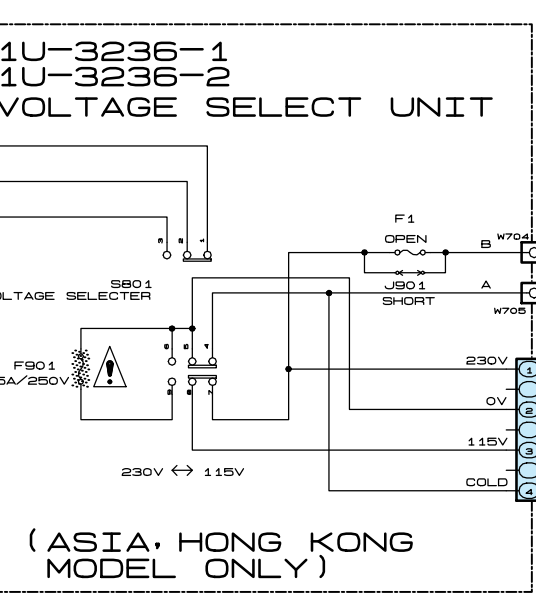
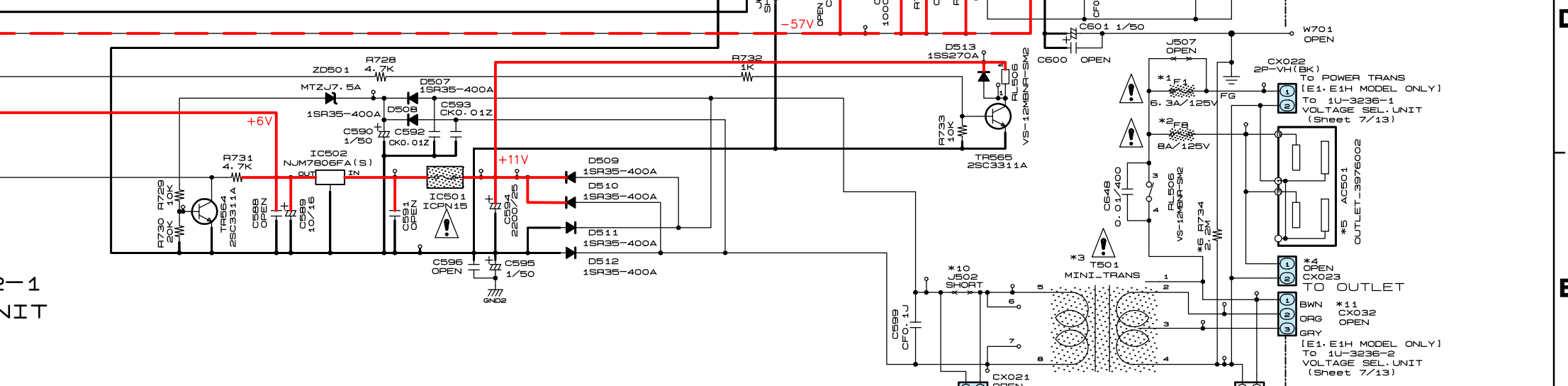
## 1U-3236-1 1U-3236-2 VOLTAGE



(ASIA MODEL)

	*1 F1	*2 F8	*3 T501	*4 CX023	*5 AC501	*6 R734	*7 C901 618	*8 C901 618	*9 CX021 CY021	*10 J502	*11 CX032	*12 S901	*13 POWER TRANS
* USA CANADA	6.3A/125V	8A/125V	2336073107	---	2P AC OUTLET	2.2M	CQ0.022	---	---	SHORT	---	---	2336296104
EUROPE	3.15A/250V	2.5A/250V	2336058025	2P VH	---	---	CF0.047J	CQ0.01	2P VH	OPEN	---	P. SW	2336302001
ASIA HONG KONG	6.3A/250V	2.5A/250V	2336278009	2P VH	---	---	CQ0.022	---	2P VH	OPEN	3P CON BASE	P. SW	2336303000
CHINA	3.15A/250V	---	2336317009	---	---	---	CQ0.022	---	2P VH	OPEN	---	P. SW	2336318008
TAIWAN R. O. C	6.3A/125V	8A/125V	2336073107	---	2P AC OUTLET	---	CQ0.022	CQ0.01	2P VH	OPEN	---	P. SW	2336296007





**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 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 milliamps, 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.

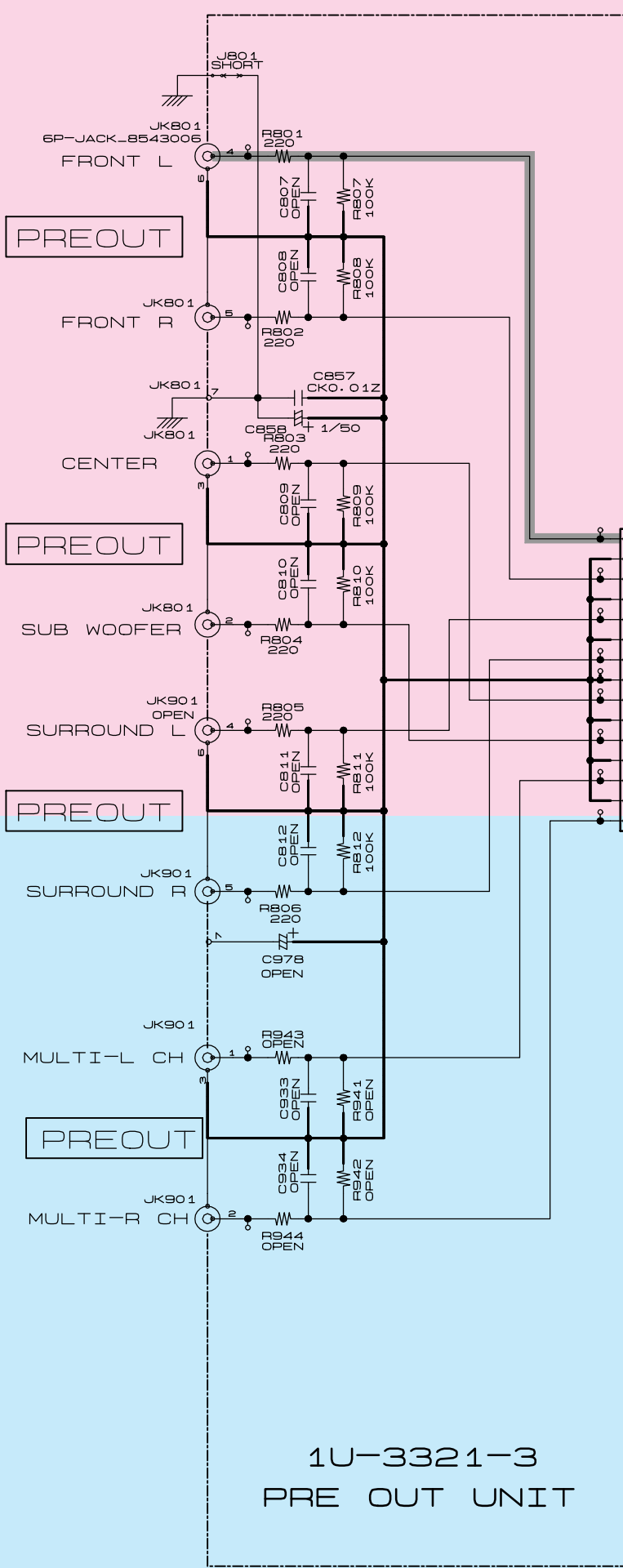
**SCHEMATIC DIAGRAMS (7/13)**  
1U-3232-1 POWER UNIT  
1U-3233-4 P.SW UNIT  
1U-3236-1 VOLTAGE SELECT UNIT (Asia, Hong Kong model only)  
1U-3236-2 VOLTAGE SELECT UNIT (Asia, Hong Kong model only)

D  
E  
F  
G  
H

SCHEMATIC DIAGRAMS (8/13)

1 2 3 4 5 6 7 8 9 10 11

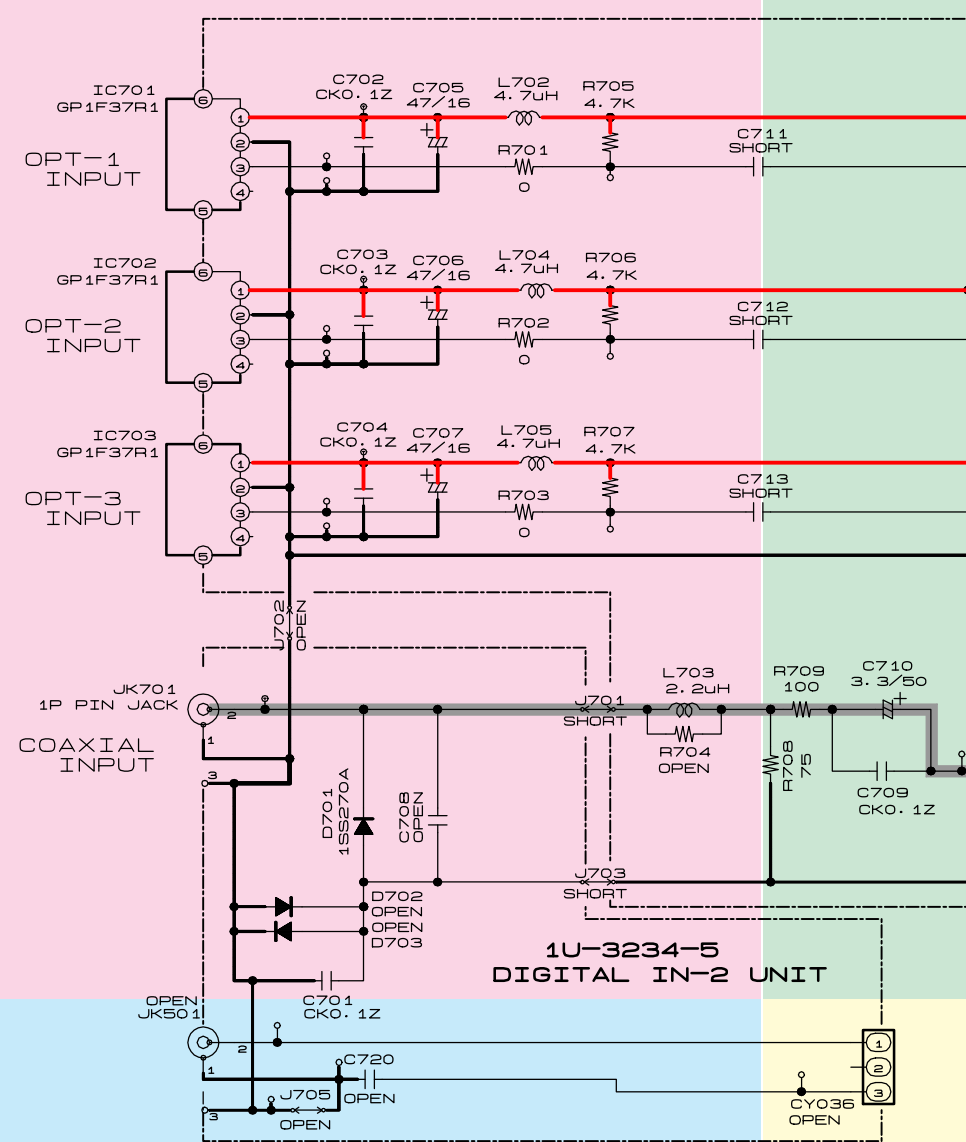
A  
B  
C  
D  
E  
F  
G  
H



1U-3321-3  
PRE OUT UNIT

A

C



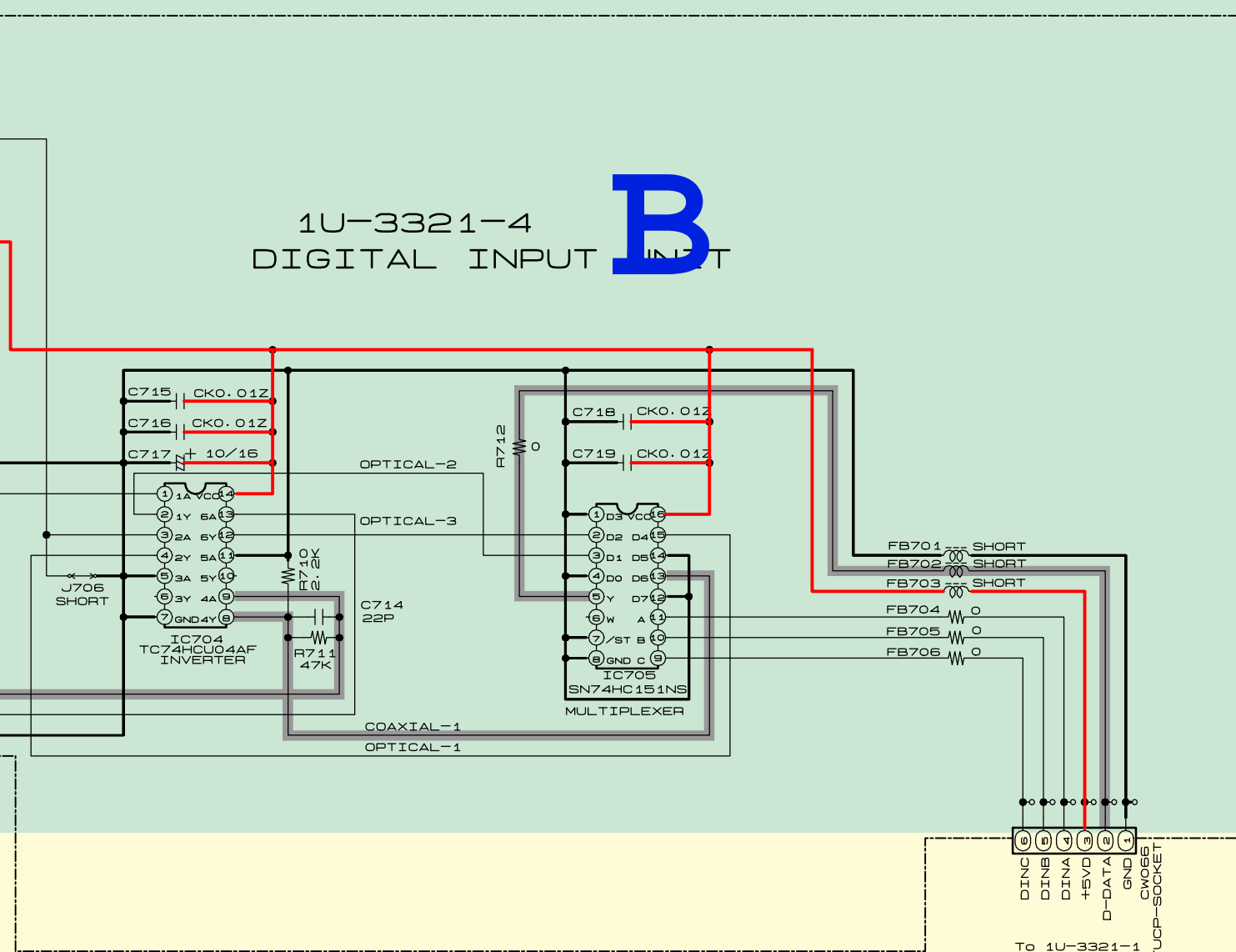
1U-3234-5  
DIGITAL IN-2 UNIT

**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 INPUT  
 CONDITION.  
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE.

**WARNING:**  
 Parts marked with this symbol 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 milliamps, 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-3321-4  
DIGITAL INPUT UNIT

— +B LINE  
 — SIGNAL LINE

D

**SCHEMATIC DIAGRAMS (8/13)**

1

2

3

4

5

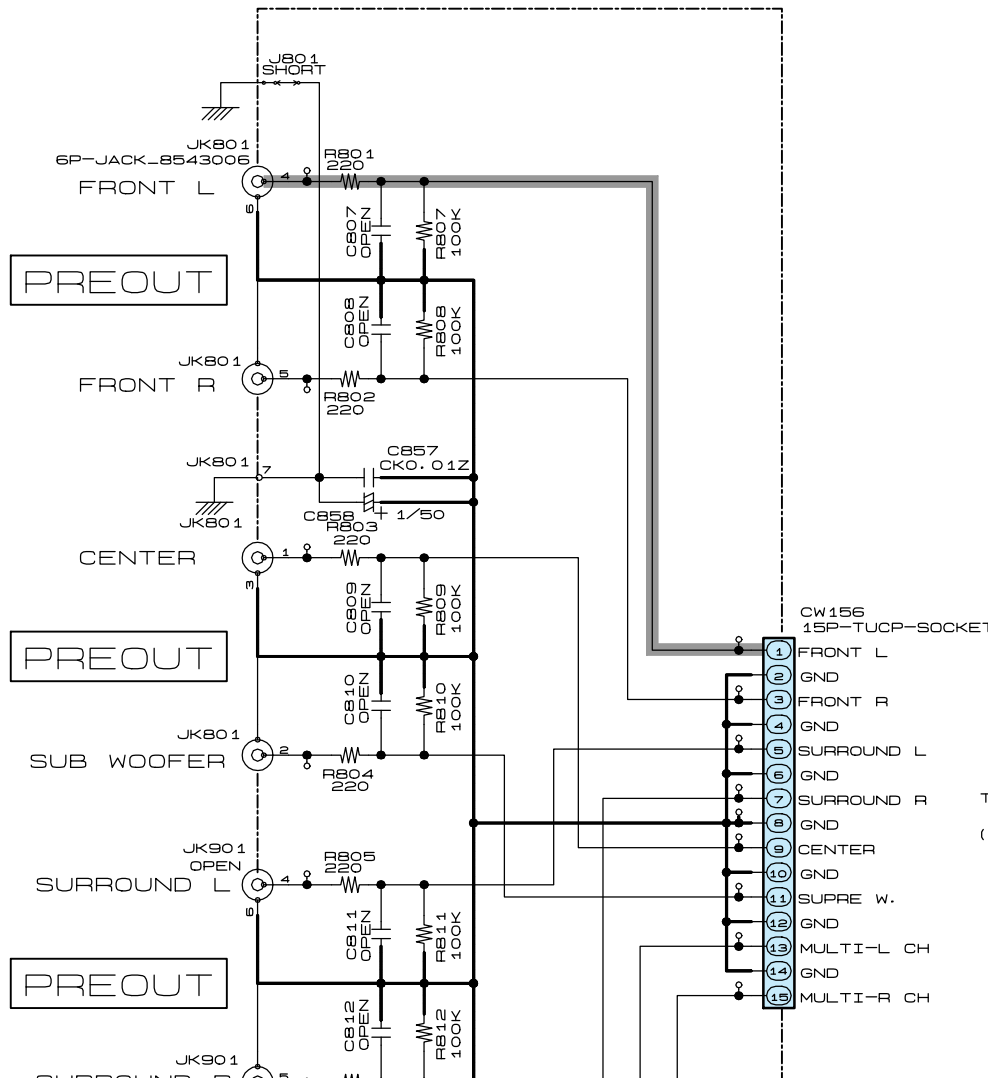
6

A

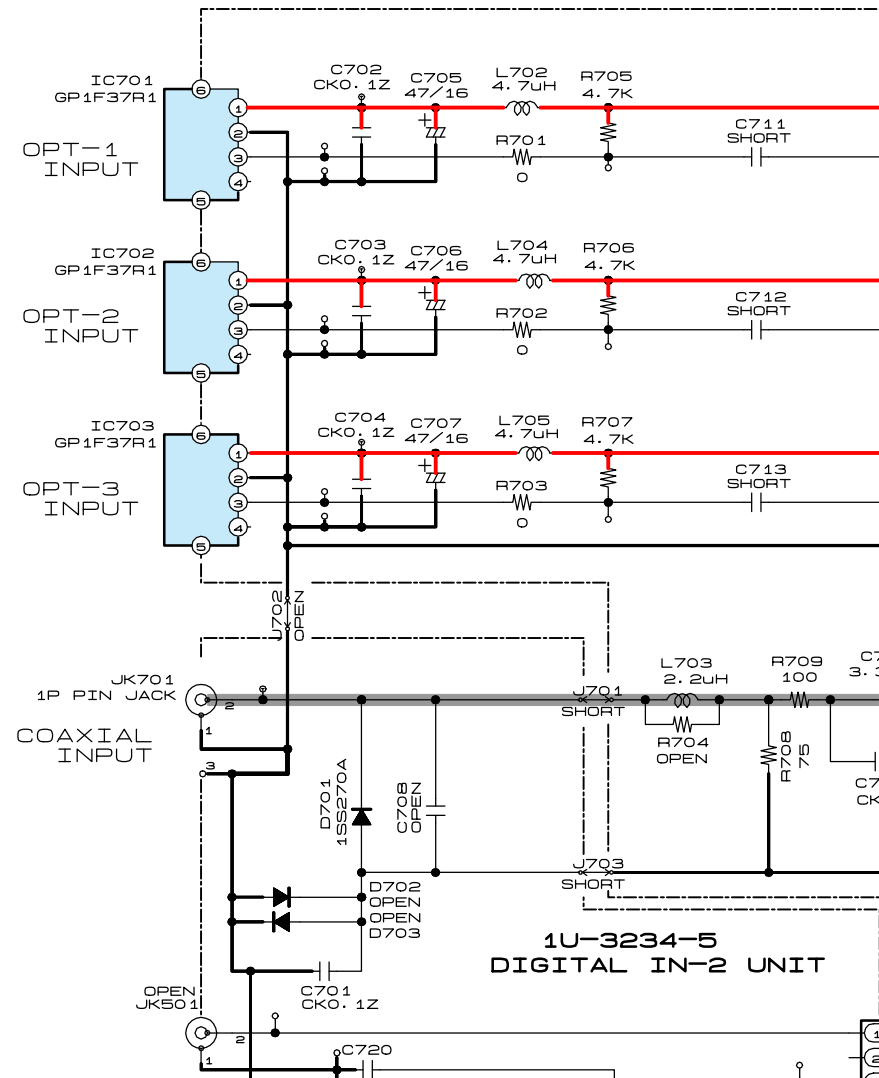
B

C

D

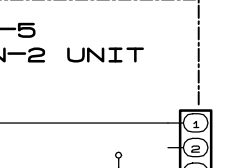
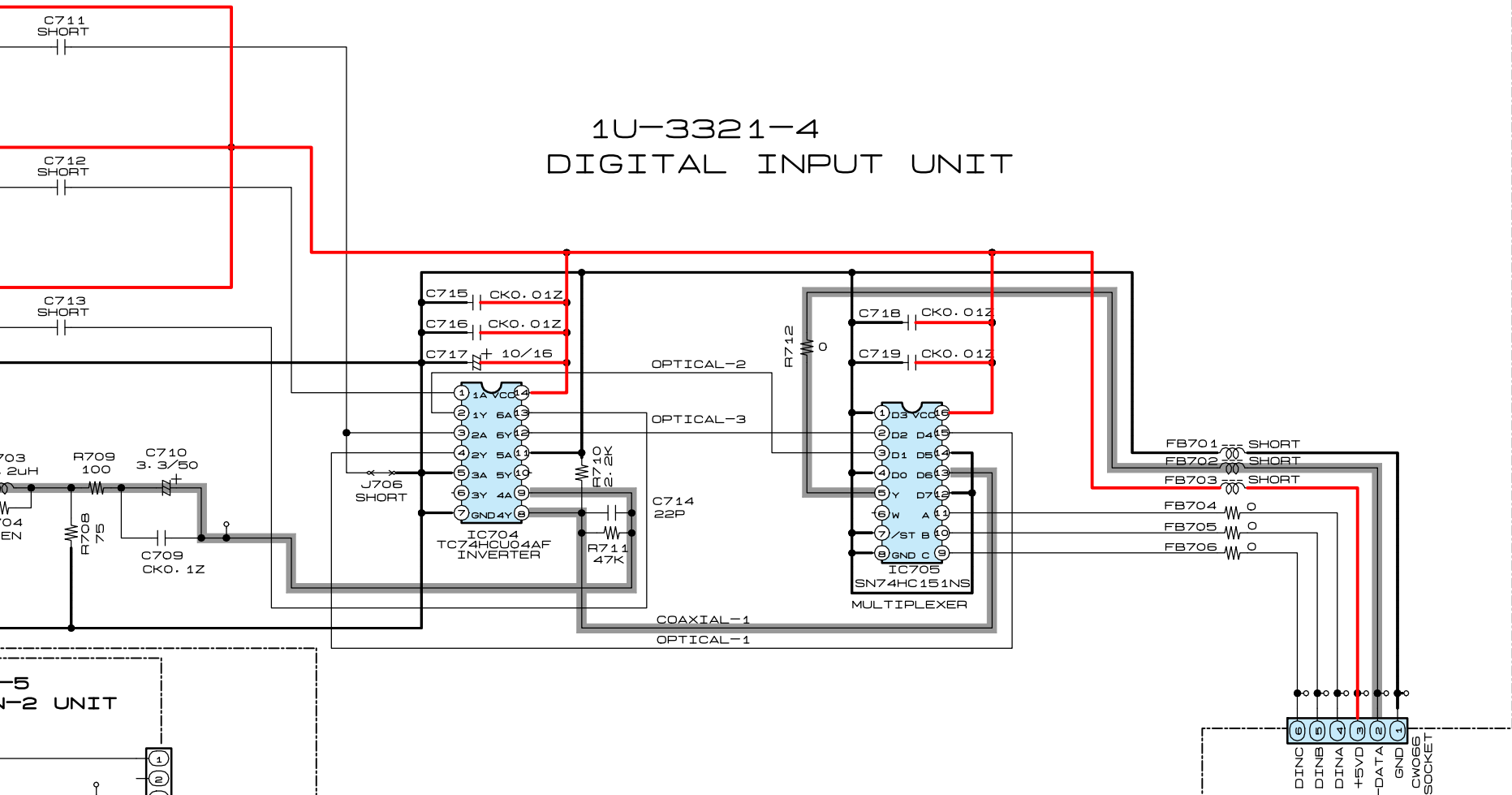


To 1U-3235-2  
AMP UNIT  
(Sheet 6/13)





# 1U-3321-4 DIGITAL INPUT UNIT



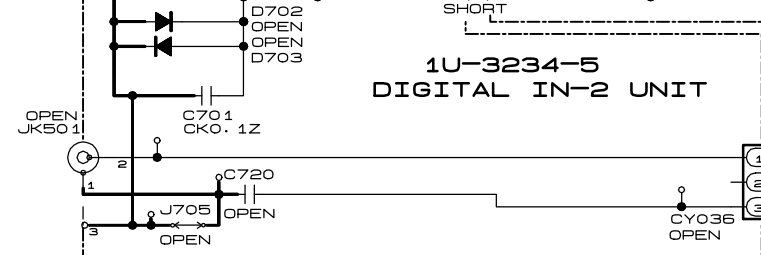
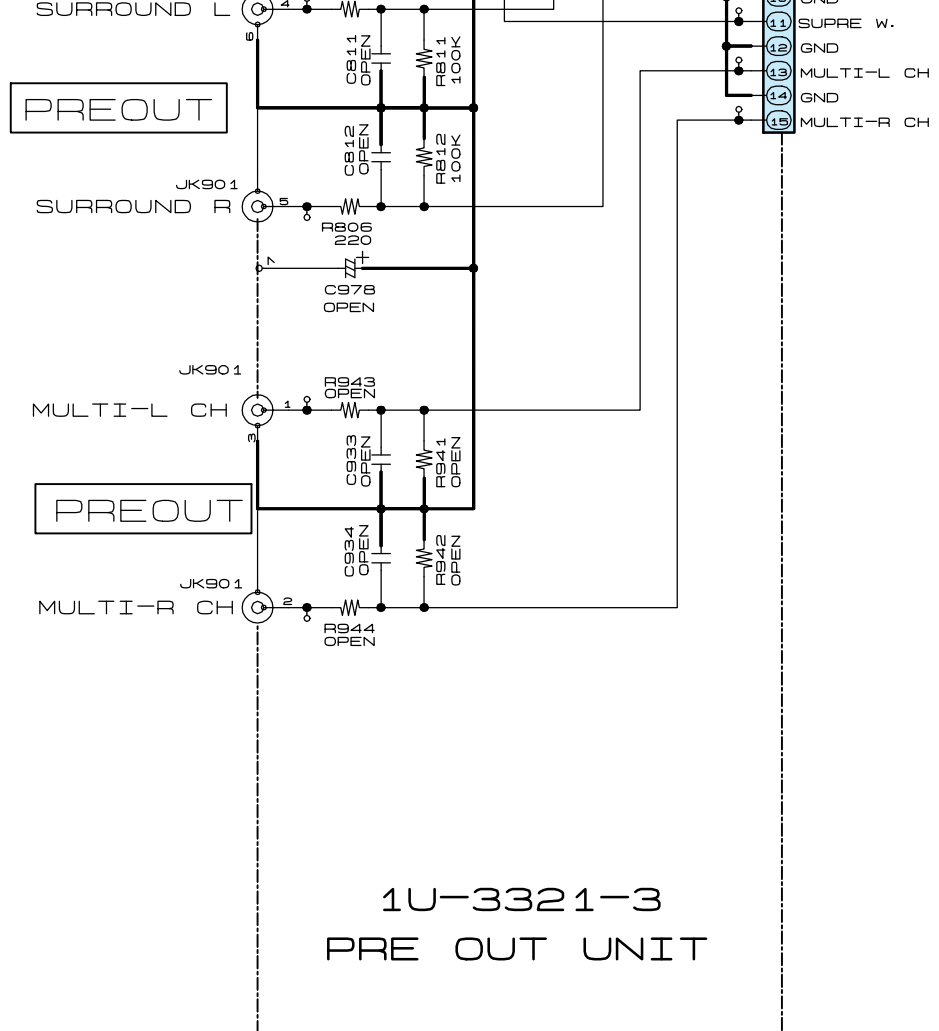
D

E

F

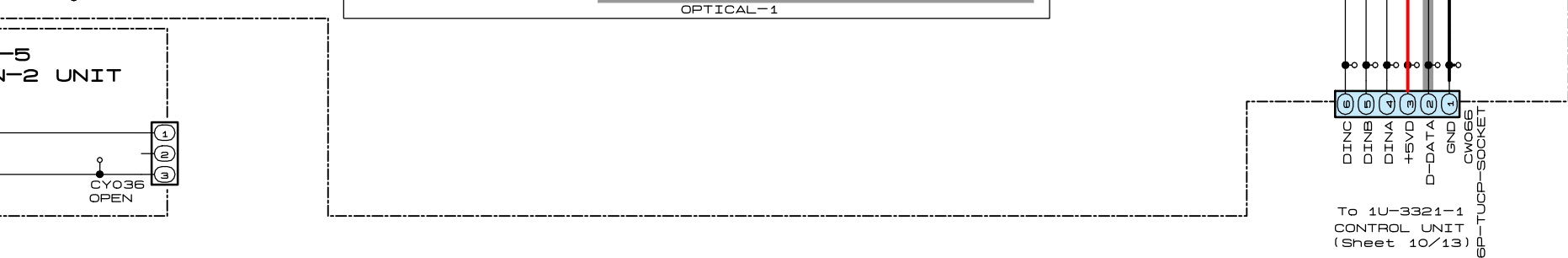
G

H




**NOTICE**

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



— +B LINE  
 — SIGNAL LINE

OHM M=1,000,000 OHM  
 D. P=MICRO-MICRO FARAD  
 RED AT NO SIGNAL INPUT  
 CHANGE WITHOUT PRIOR

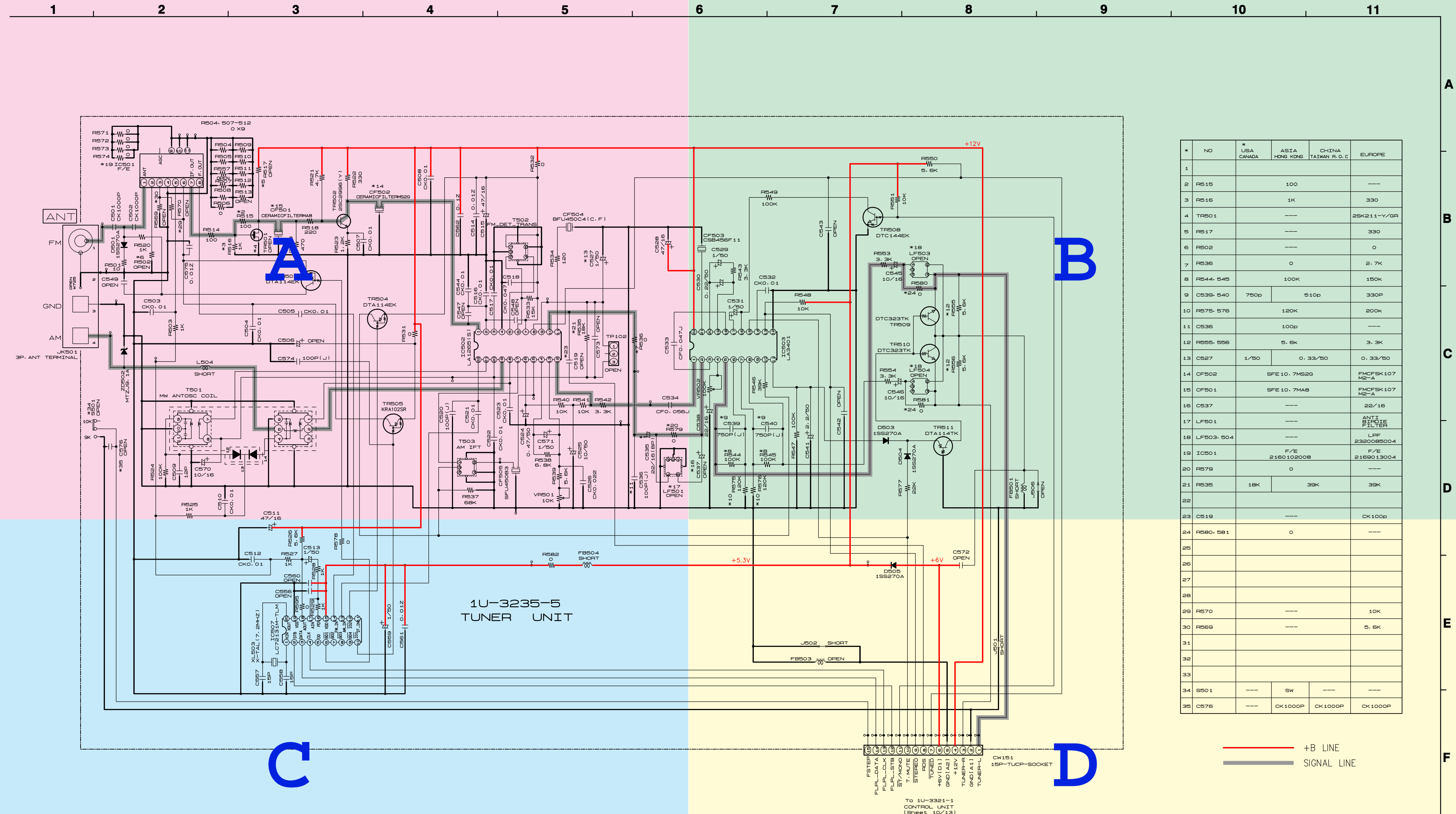
**WARNING:**  
 Parts marked with this symbol  have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

**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 milliamps, 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 (8/13)**  
 1U-3321-3 PRE OUT UNIT  
 1U-3321-4 DIGITAL INPUT UNIT  
 1U-3321-5 DIGITAL IN-2 UNIT

**SCHEMATIC DIAGRAMS (9/13)**



* NO	* USA CANADA	ASIA HONG KONG	CHINA TAIWAN R.O.C	EUROPE
1				
2	R515	100		
3	R516	1K		330
4	TR501			2SK211-Y/GR
5	R517			330
6	R502			0
7	R536	0		2.7K
8	R544, 545	100K		150K
9	C539, 540	750p	510p	330P
10	R575, 576	120K		200K
11	C538	100p		
12	R555, 556	5.6K		3.3K
13	C527	1/50	0.33/50	0.33/50
14	CF502	SFE 10.7MS2G		FMCFSK107 M2-A
15	CF501	SFE 10.7MAB		FMCFSK107 M2-A
16	C537			22/16
17	LF501			ANTI BIPOLAR FILTER
18	LF503, 504			LFP 2320085004
19	IC501	F/E 2160102008		F/E 2169013004
20	R579	0		
21	R535	18K	39K	39K
22				
23	C519			CK100p
24	R580, 581	0		
25				
26				
27				
28				
29	R570			10K
30	R569			5.6K
31				
32				
33				
34	S501	SW		
35	C576	CK1000P	CK1000P	CK1000P

**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 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 milliamps, 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 (9/13)

1

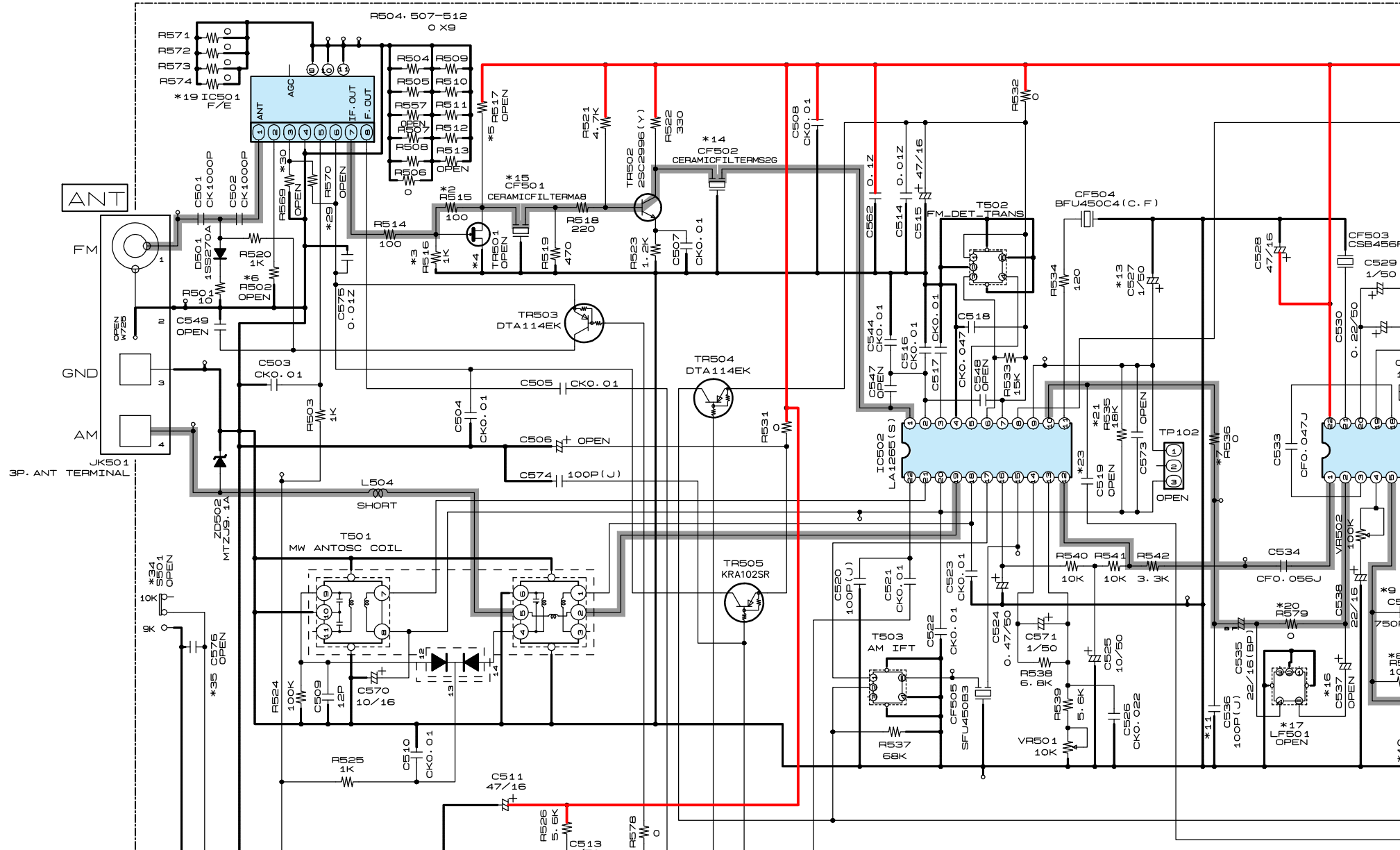
2

3

4

5

6





6

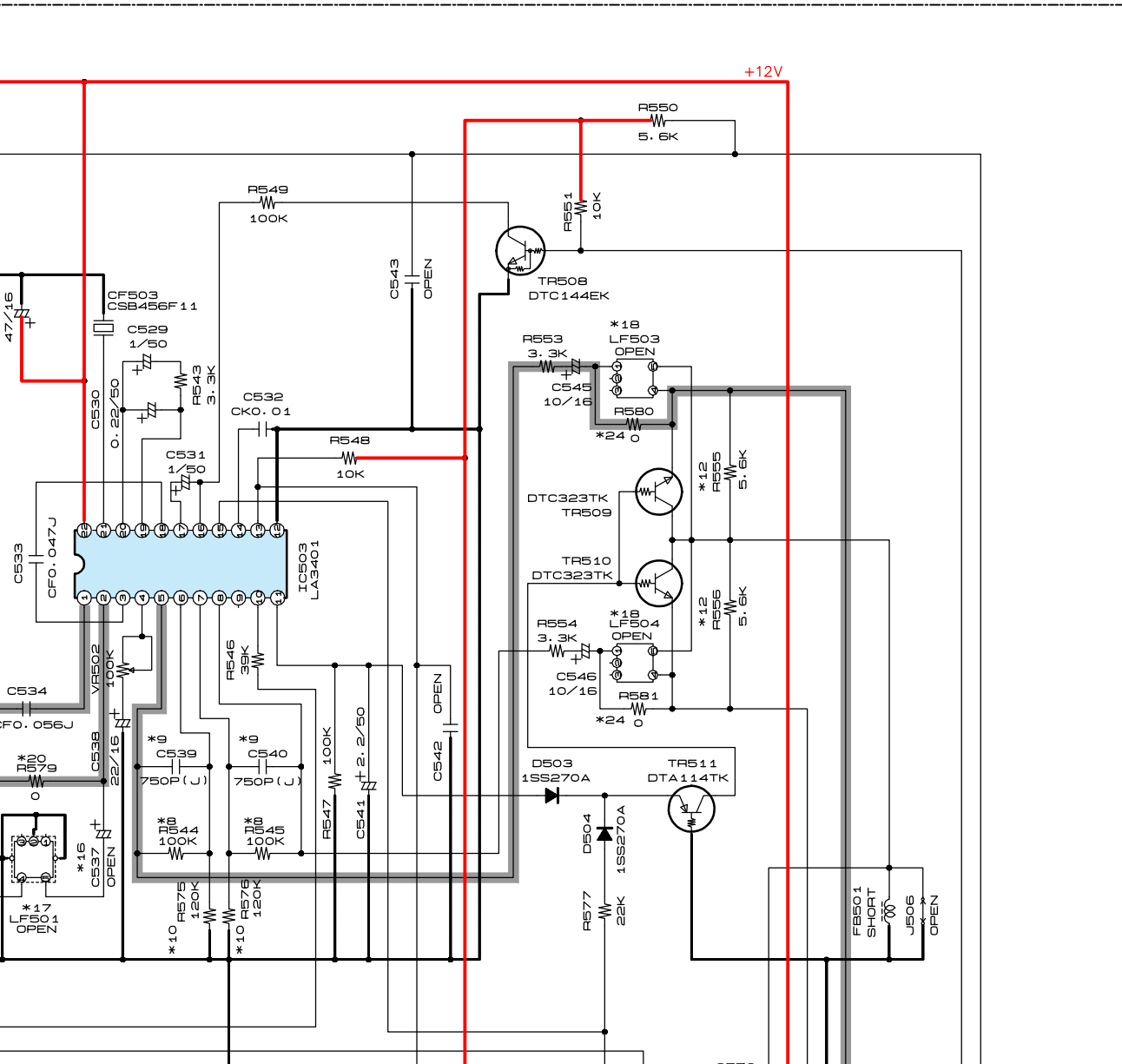
7

8

9

10

11



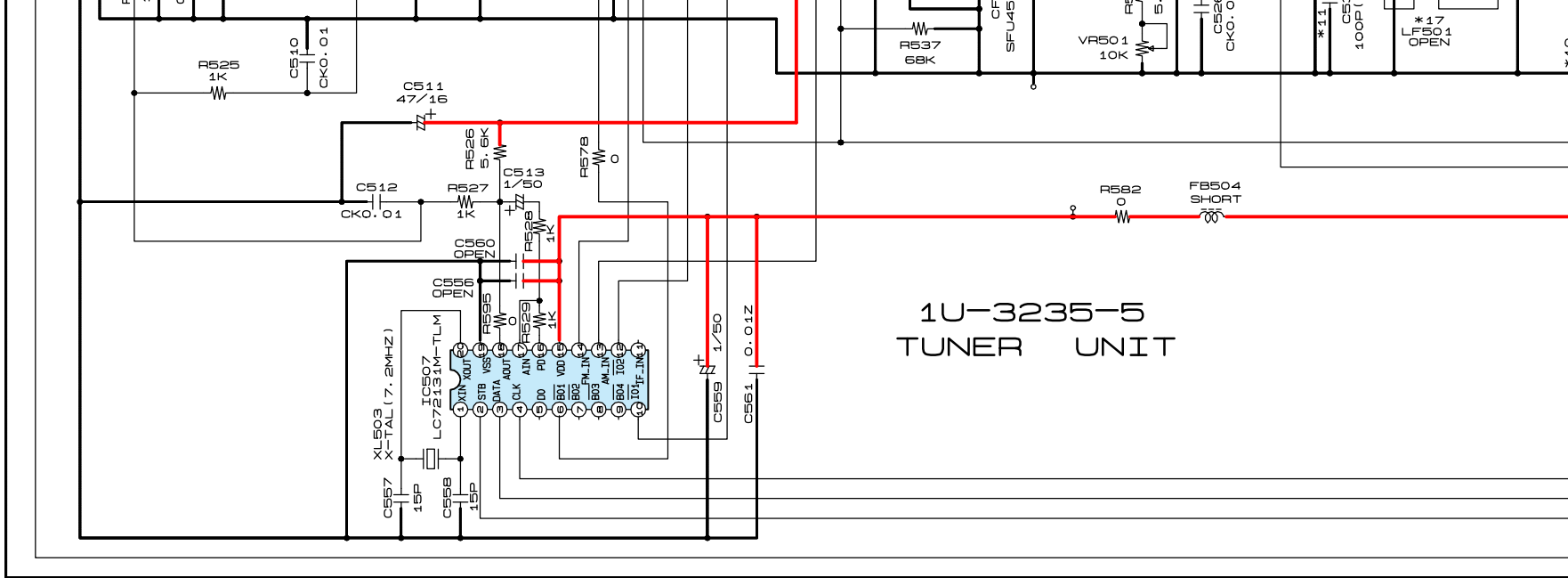
A

B

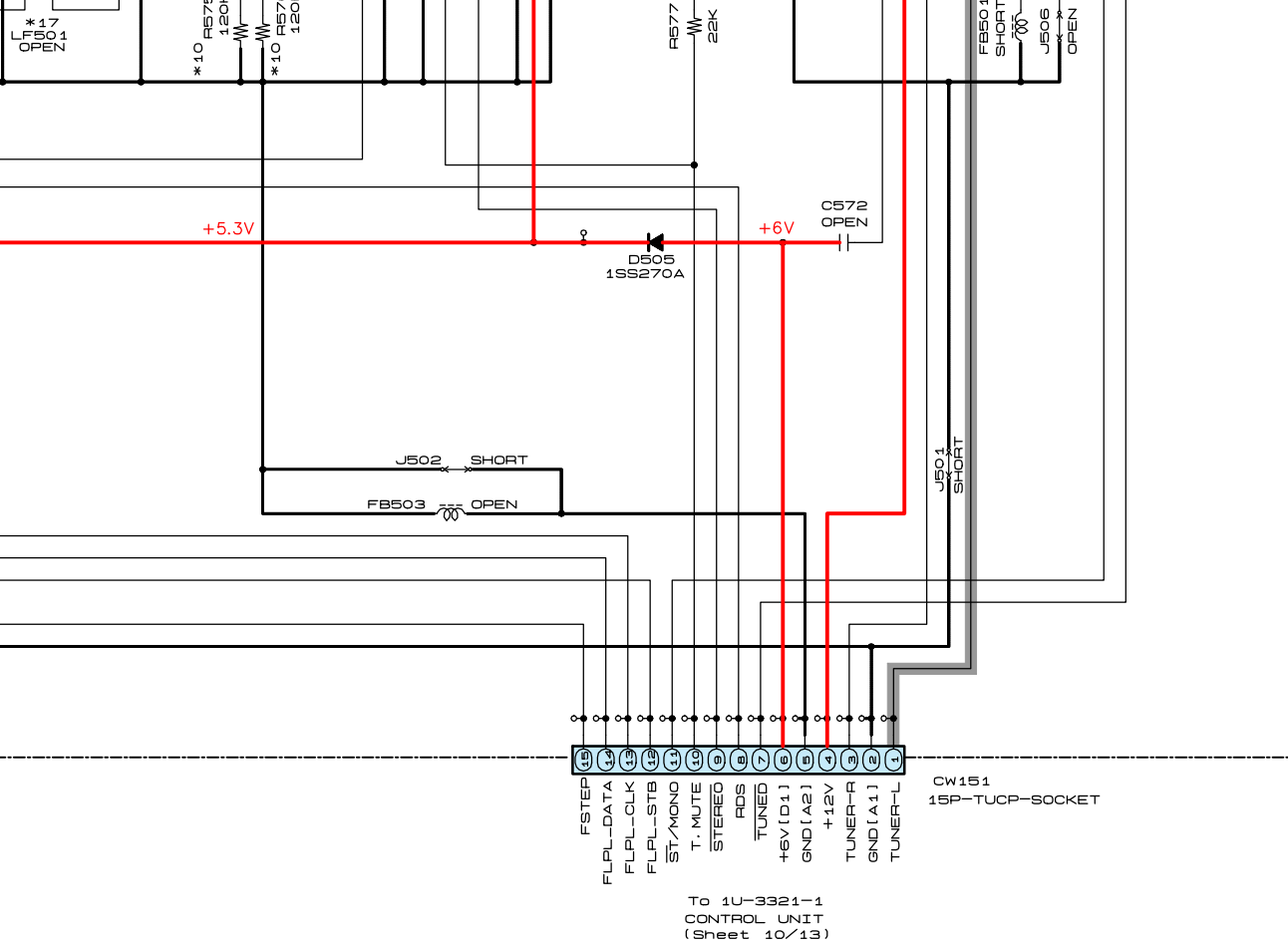
C

D

* NO	* USA CANADA	ASIA HONG KONG	CHINA TAIWAN R. O. C	EUROPE
1				
2	R515	100		---
3	R516	1K		330
4	TR501	---		2SK211-Y/GR
5	R517	---		330
6	R502	---		0
7	R536	0		2.7K
8	R544, 545		100K	150K
9	C539, 540	750p	510p	330P
10	R575, 576		120K	200K
11	C536		100p	---
12	R555, 556		5.6k	3.3k
13	C527	1/50	0.33/50	0.33/50
14	CF502		SFE 10.7MS2G	FMCFSK 107 M2-A
15	CF501		SFE 10.7MAB	FMCFSK 107 M2-A
16	C537		---	22/16
17	LF501		---	ANTI BIRDIE FILTER
18	LF503, 504		---	LPF 2320085004
19	IC501		F/E 2160102008	F/E 2169013004
20	R579		0	---
21	R535	18K	39K	39K
22				
23	C519		---	CK100p
24	R580, 581		0	---
25				



**NOTICE**  
 ALL RESISTANCE VALUES  
 ALL CAPACITANCE VALUES  
 EACH VOLTAGE AND CURRENT  
 CONDITION.  
 CIRCUIT AND PARTS LIST  
 NOTICE.



21	R535	18K	39K	39K
22				
23	C519	---	---	CK100p
24	R580, 581	0	---	---
25				
26				
27				
28				
29	R570	---	---	10K
30	R569	---	---	5.6K
31				
32				
33				
34	S501	---	SW	---
35	C576	---	CK1000P	CK1000P

— +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:**  
 Parts marked with this symbol have critical characteristics.  
 Use ONLY replacement parts recommended by the manufacturer.

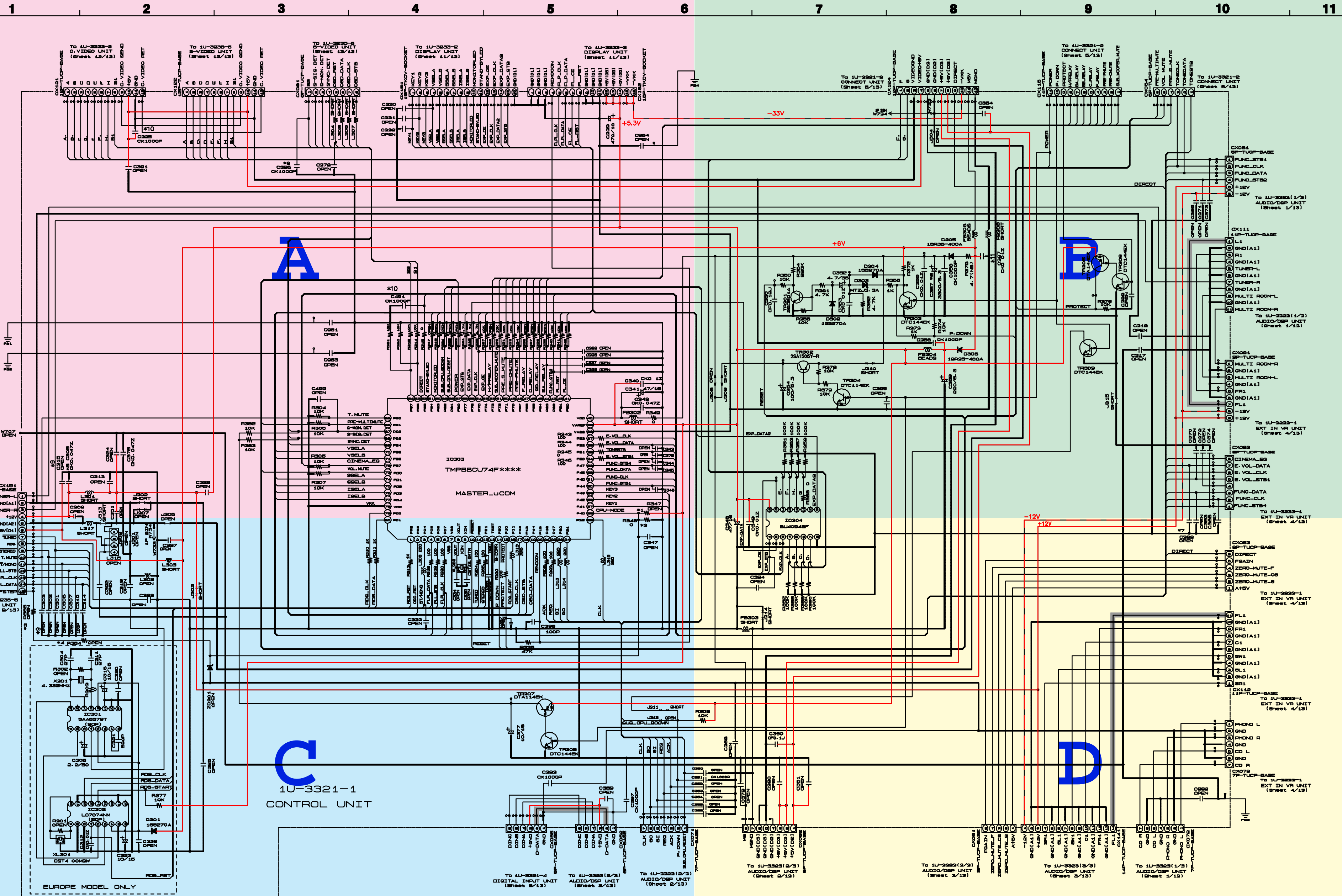
**CAUTION:**  
 Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit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

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

**SCHEMATIC DIAGRAMS (9/13)**  
**1U-3235-5 TUNER UNIT**

D  
 E  
 F  
 G  
 H

**SCHEMATIC DIAGRAMS (10/13)**



**1U-3321-1 CONTROL UNIT**

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
*USA CANADA	—	0	—	—	CK0 047	3300/5 3	—	CK1000P	—	CK1000P	CK0.01
EUROPE	0	—	—	—	8200/5 5	CK1000P	—	CK1000P	—	—	—
ASIA HONG KONG	1K	5. 1K	0	1. 3K	—	8200/5 5	CK1000P	—	CK1000P	—	—
CHINA TAIWAN R.O.C.	4. 7K	4. 7K	—	—	—	8200/5 5	CK1000P	—	CK1000P	—	—

**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.

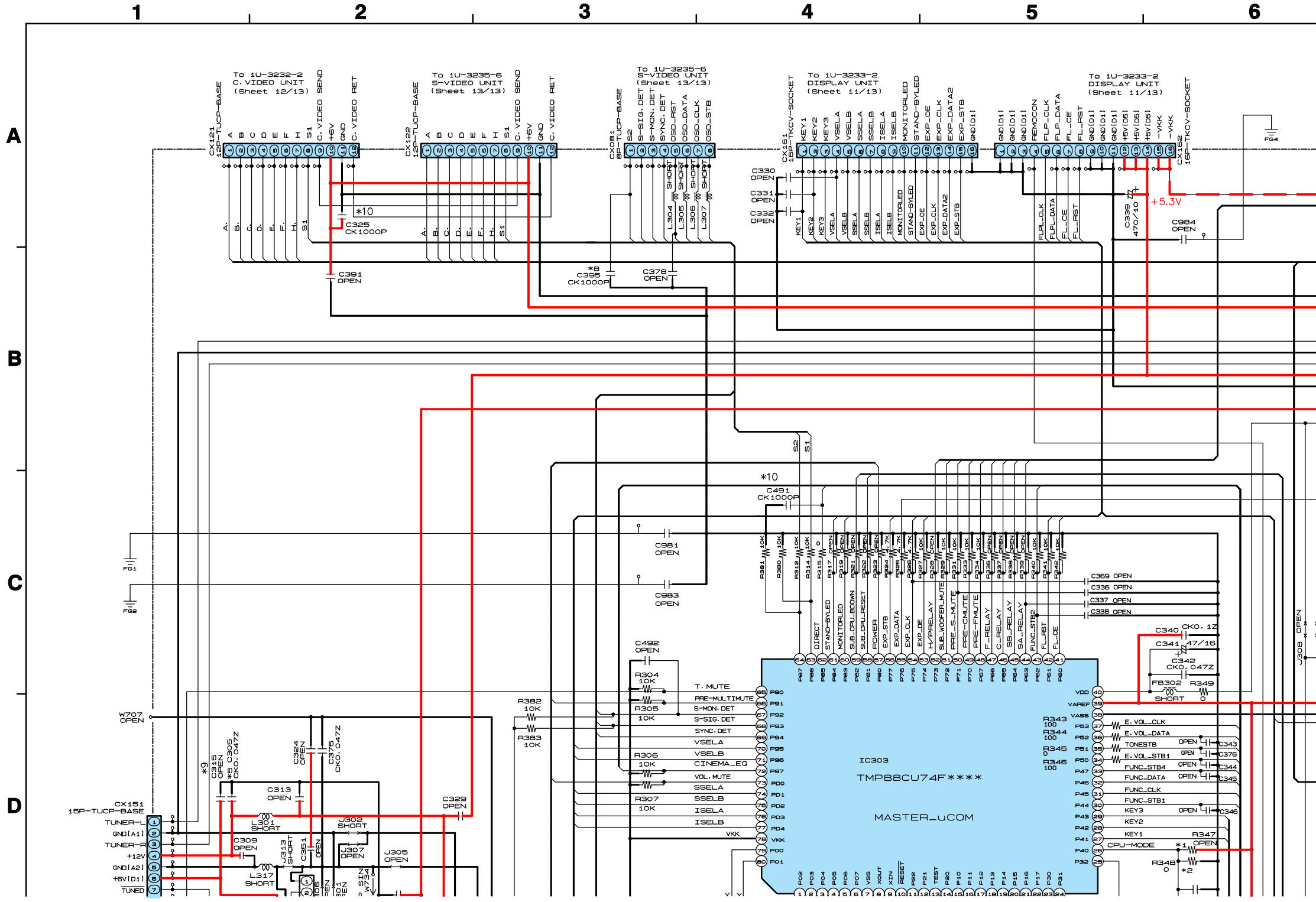
**WARNING:**  
 Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

**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.

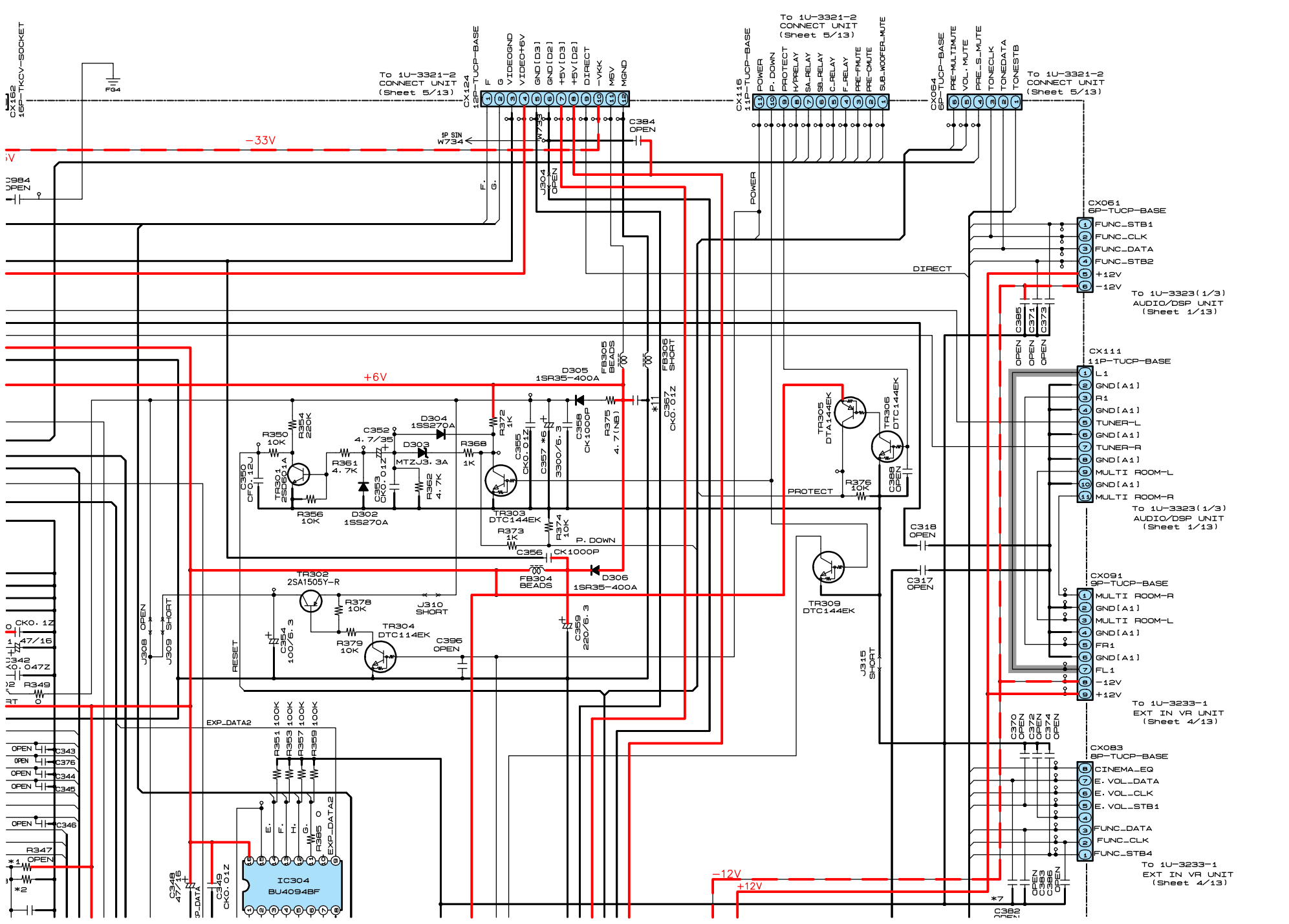
**WARNING:**  
 DO NOT return the unit to the customer until the problem is located and corrected.

**SCHEMATIC DIAGRAMS (10/13)**  
**1U-3321-1 CONTROL UNIT**

# SCHEMATIC DIAGRAMS (10/13)







To 1U-3321-1  
CONNECT UNIT  
(Sheet 5/13)

To 1U-3321-1  
CONNECT UNIT  
(Sheet 5/13)

To 1U-3321-1  
CONNECT UNIT  
(Sheet 5/13)

To 1U-3323(1/3)  
AUDIO/DSP UNIT  
(Sheet 1/13)

To 1U-3323(1/3)  
AUDIO/DSP UNIT  
(Sheet 1/13)

To 1U-3233-1  
EXT IN VR UNIT  
(Sheet 4/13)

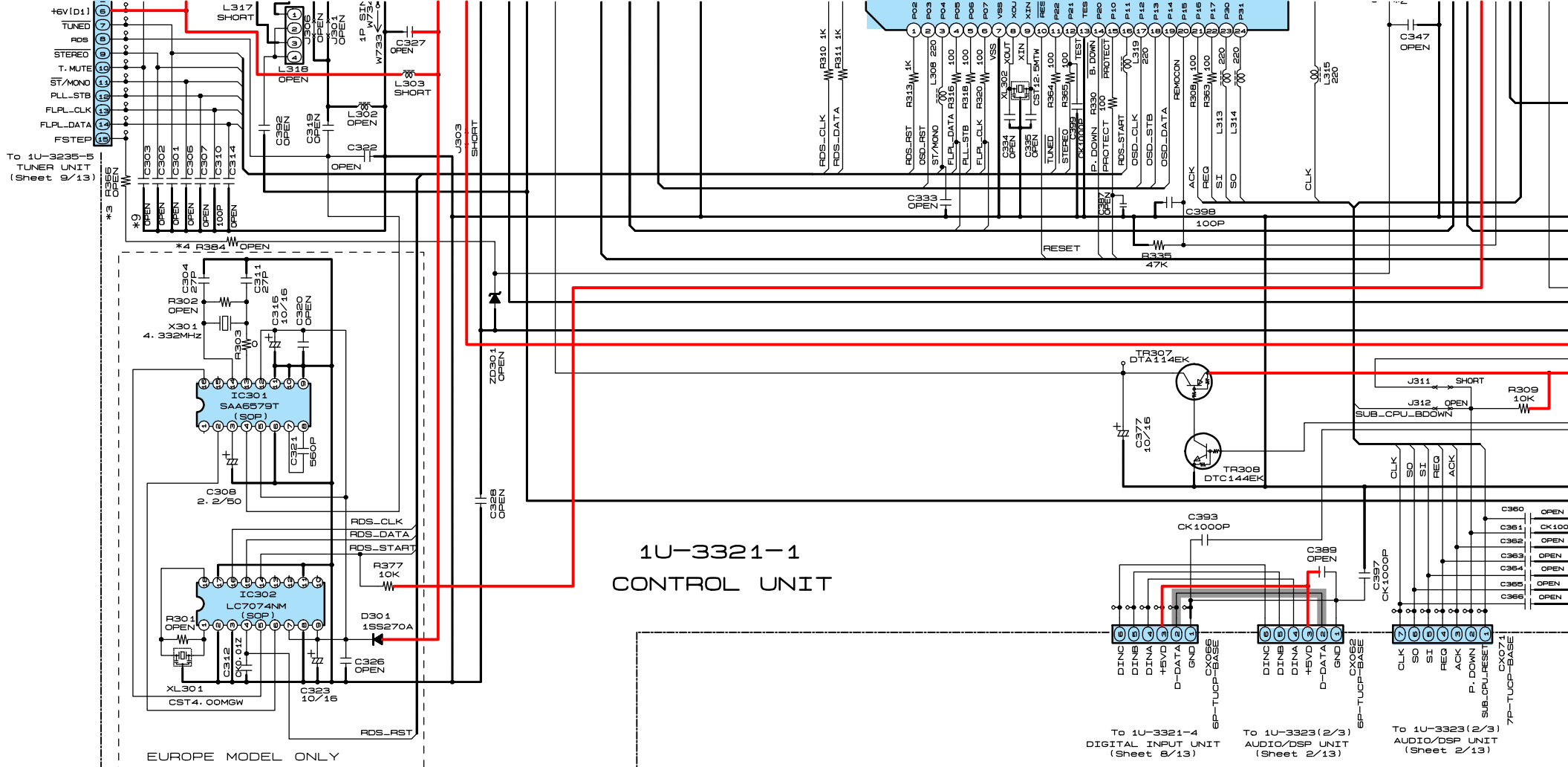
To 1U-3233-1  
EXT IN VR UNIT  
(Sheet 4/13)

-33V

+6V

+12V  
-12V

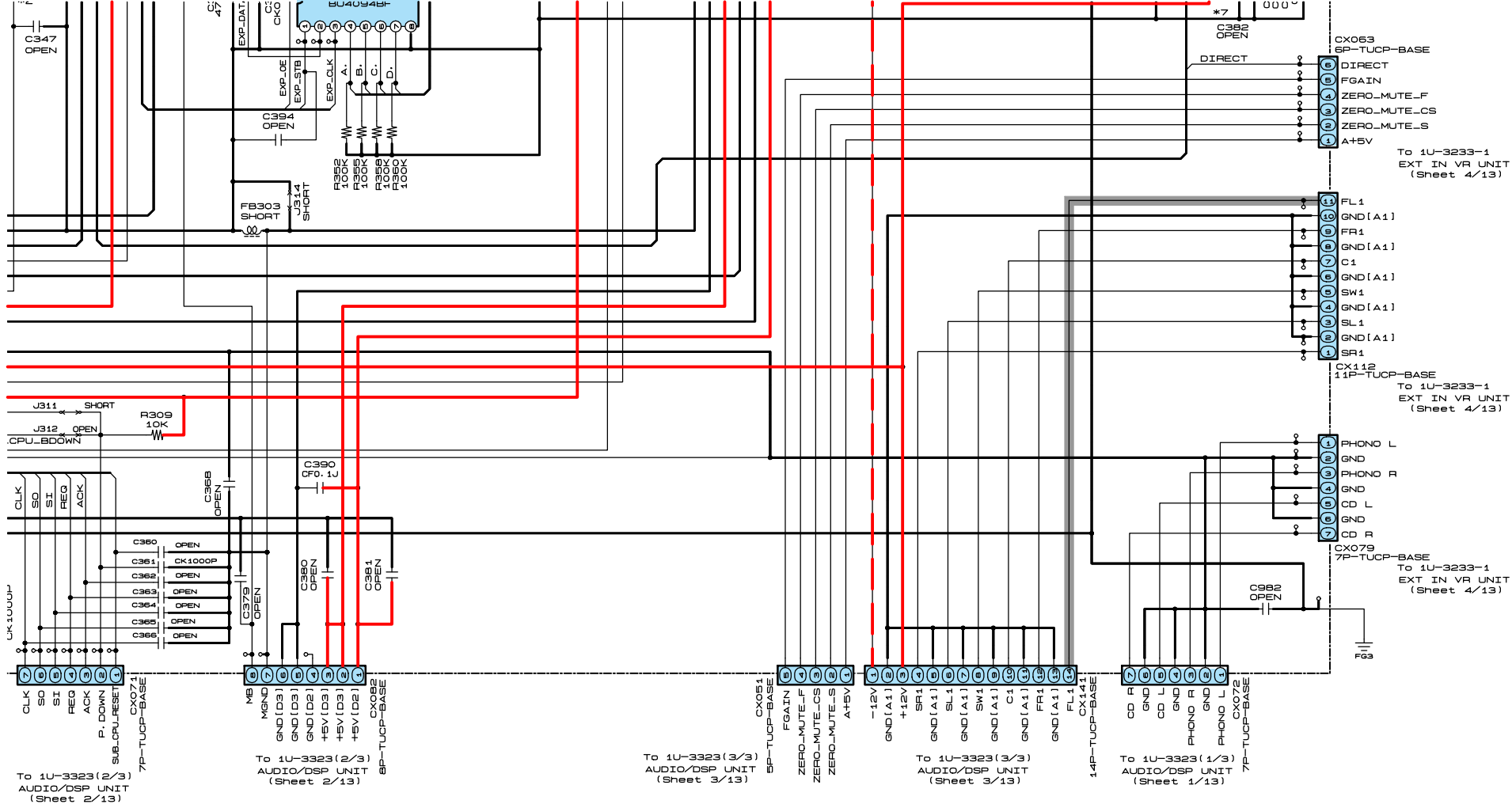
E  
F  
G  
H




1U-3321-1  
CONTROL UNIT

	*1 R347	*2 R348	*3 R365	*4 R384	*5 C305	*6 C357	*7 C382	*8 C395	*9 C303 315	*10 C325 491	*11 C367
* USA CANADA	---	0	---	---	CK0.047	3300/5.3	---	CK1000P	---	CK1000P	CK0.01
EUROPE	0	---	---	---	---	8200/5.5	CK1000P	---	CK1000P	---	---
ASIA HONG KONG	1K	5.1K	0	1.3K	---	8200/5.5	CK1000P	---	CK1000P	---	---
CHINA TAIWAN R. O. C.	4.7K	4.7K	---	---	---	8200/5.5	CK1000P	---	CK1000P	---	---

**NOTICE**  
ALL RESISTANCE VALUES I  
ALL CAPACITANCE VALUES  
EACH VOLTAGE AND CURR  
CONDITION.  
CIRCUIT AND PARTS ARE S  
NOTICE.

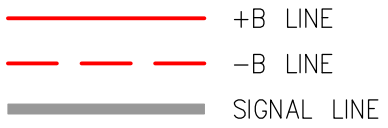


**NOTICE**  
 ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM  
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD  
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT  
 CONDITION.  
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE.

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

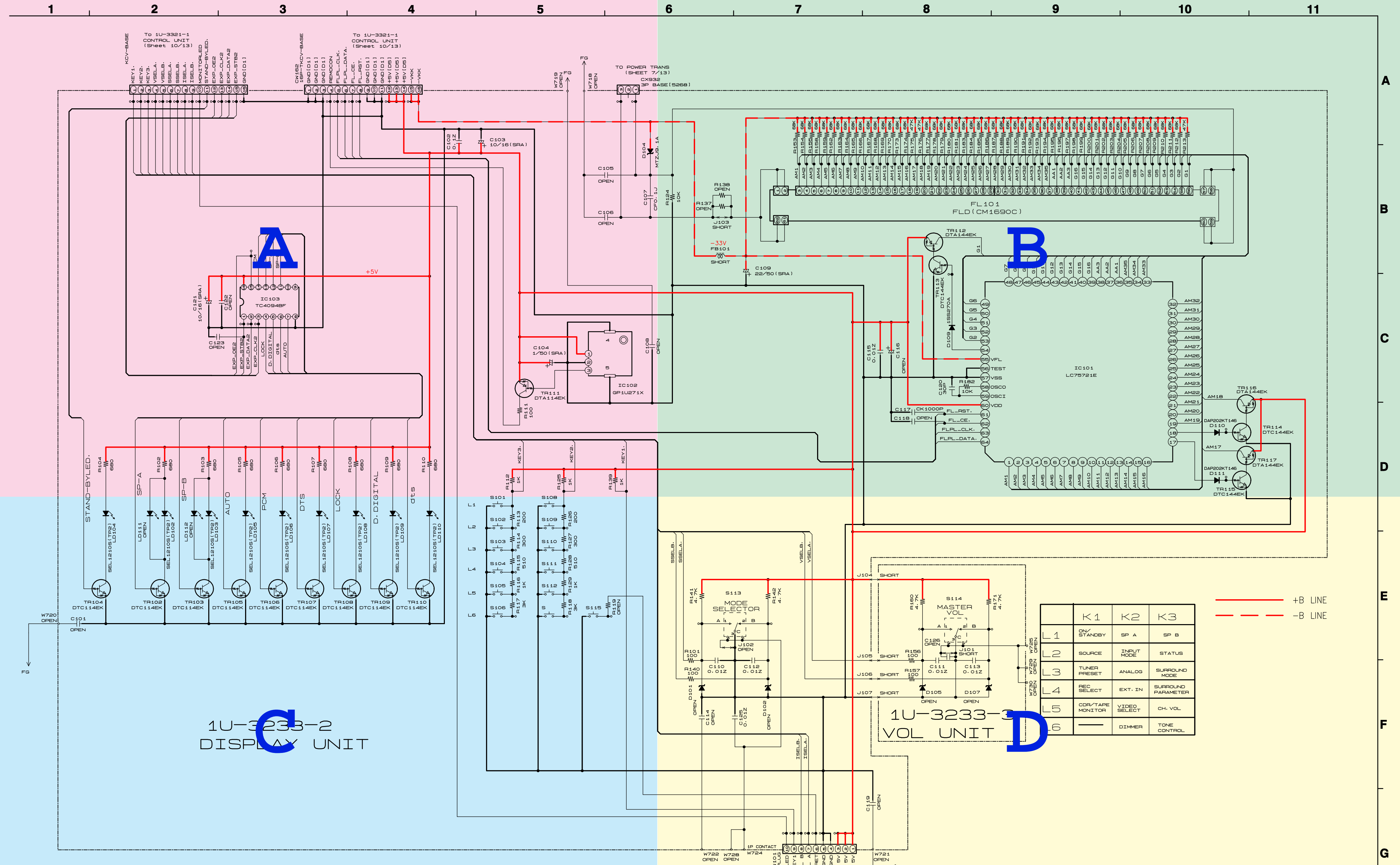
**CAUTION:**  
 Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit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

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



**SCHEMATIC DIAGRAMS (10/13)**  
**1U-3233-1 CONTROL UNIT**

SCHEMATIC DIAGRAMS (11/13)



**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 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 milliamps, 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.

	K1	K2	K3
L1	ON STANDBY	SP A	SP B
L2	SOURCE	INPUT MODE	STATUS
L3	TUNER PRESET	ANALOG	SURROUND MODE
L4	REC SELECT	EXT. IN	SURROUND PARAMETER
L5	CDR/TAPE MONITOR	VIDEO SELECT	CH. VOL
L6		DIMMER	TONE CONTROL

— +B LINE  
 - - - -B LINE

# SCHEMATIC DIAGRAMS (11/13)

1

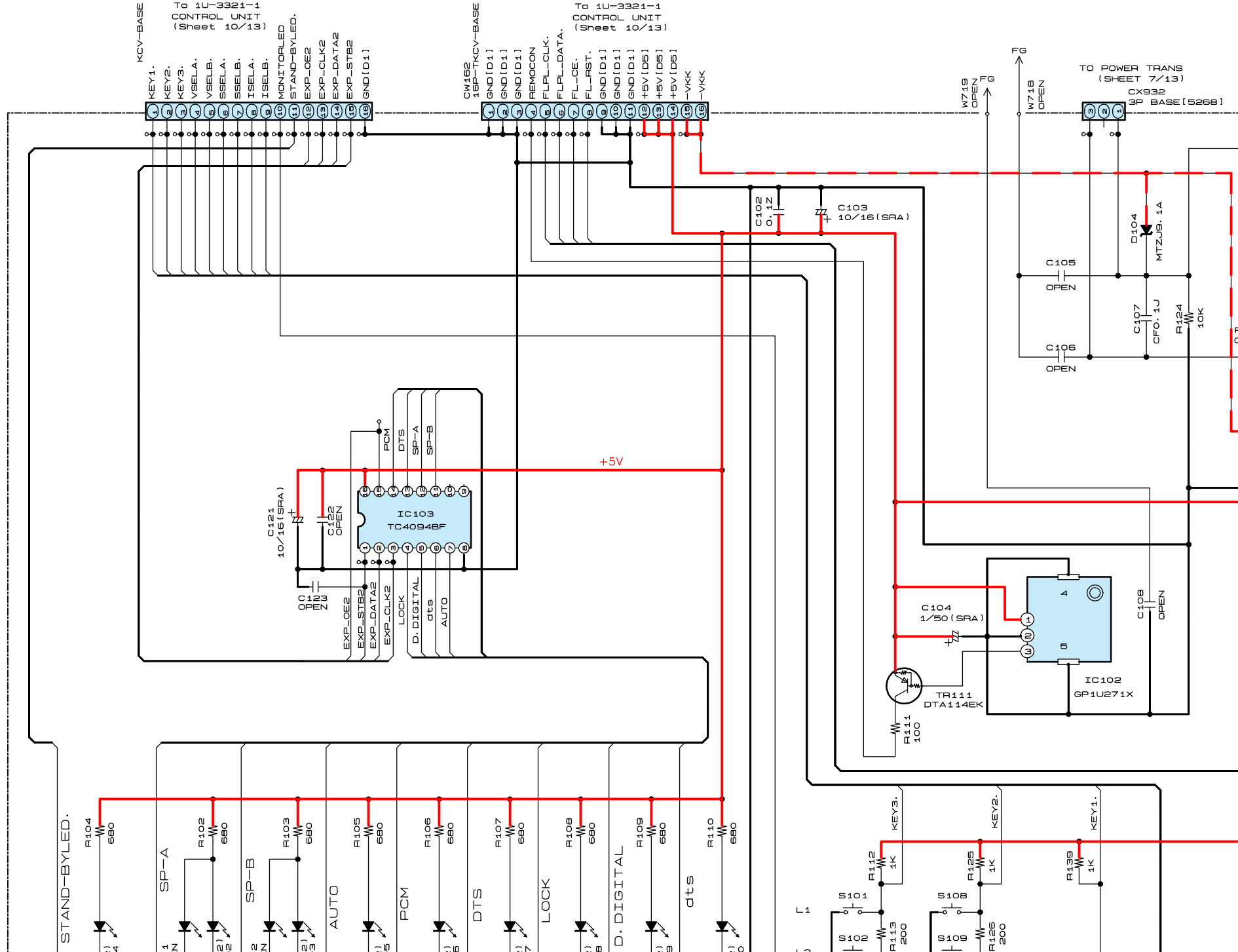
2

3

4

5

6





6

7

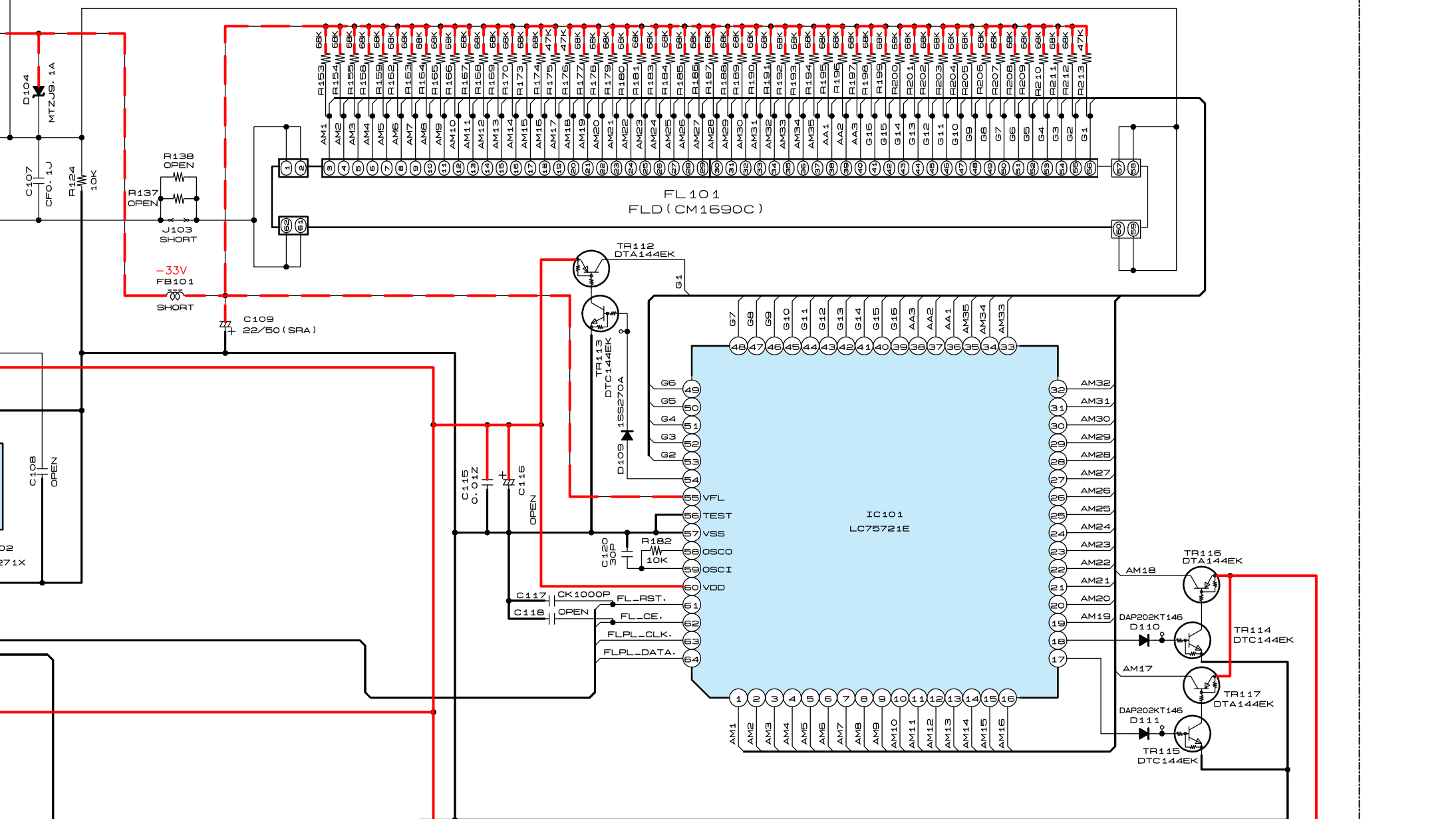
8

9

10

11

POWER TRANS  
SHEET 7/13)  
CX932  
3P BASE (5268)

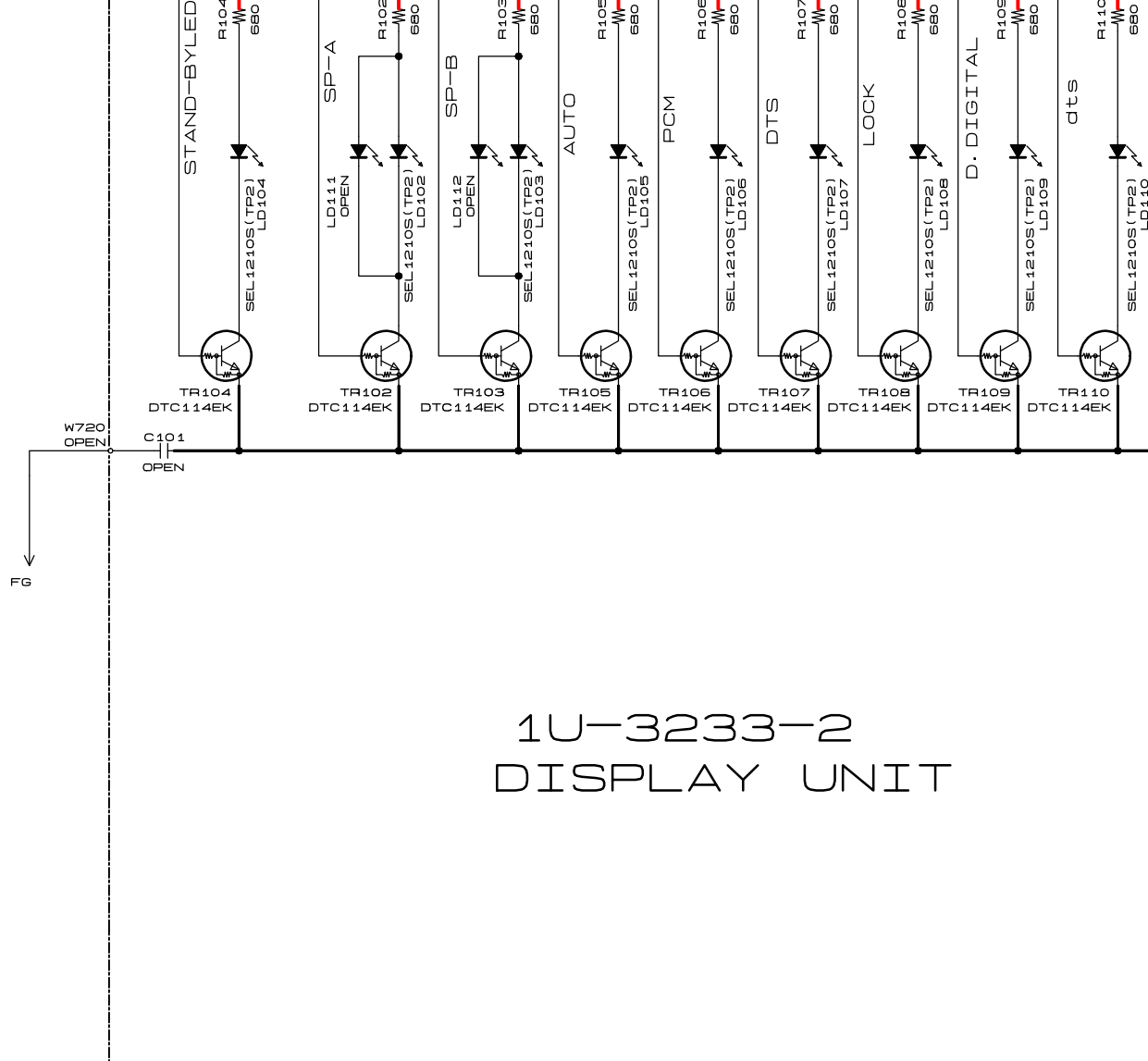


A

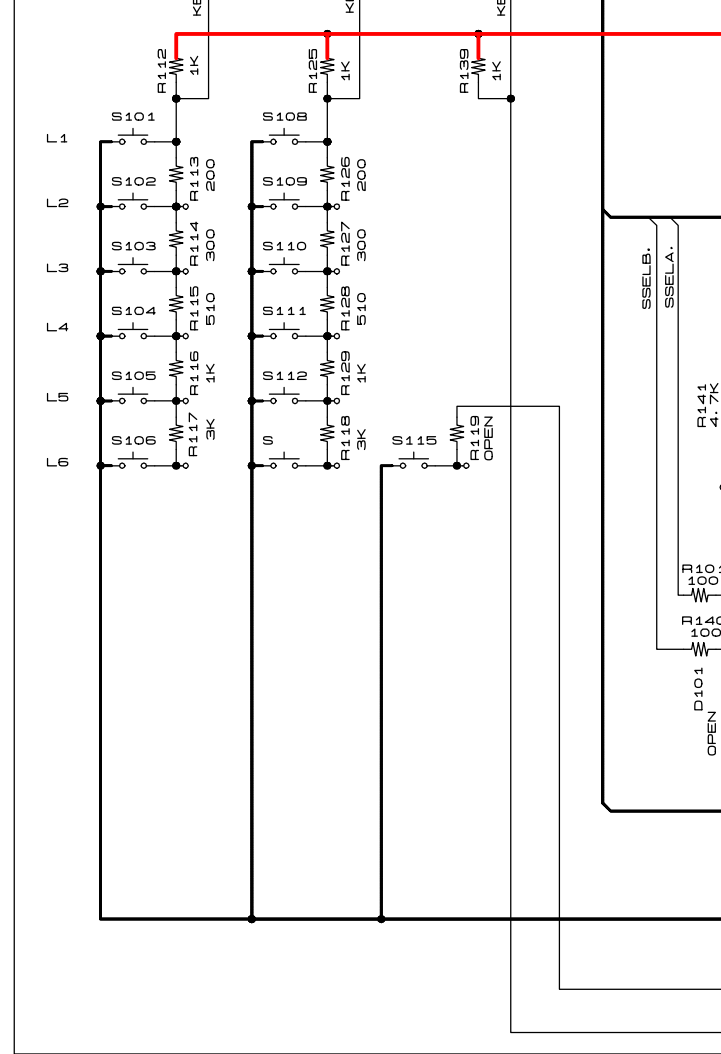
B

C

D



# 1U-3233-2 DISPLAY UNIT

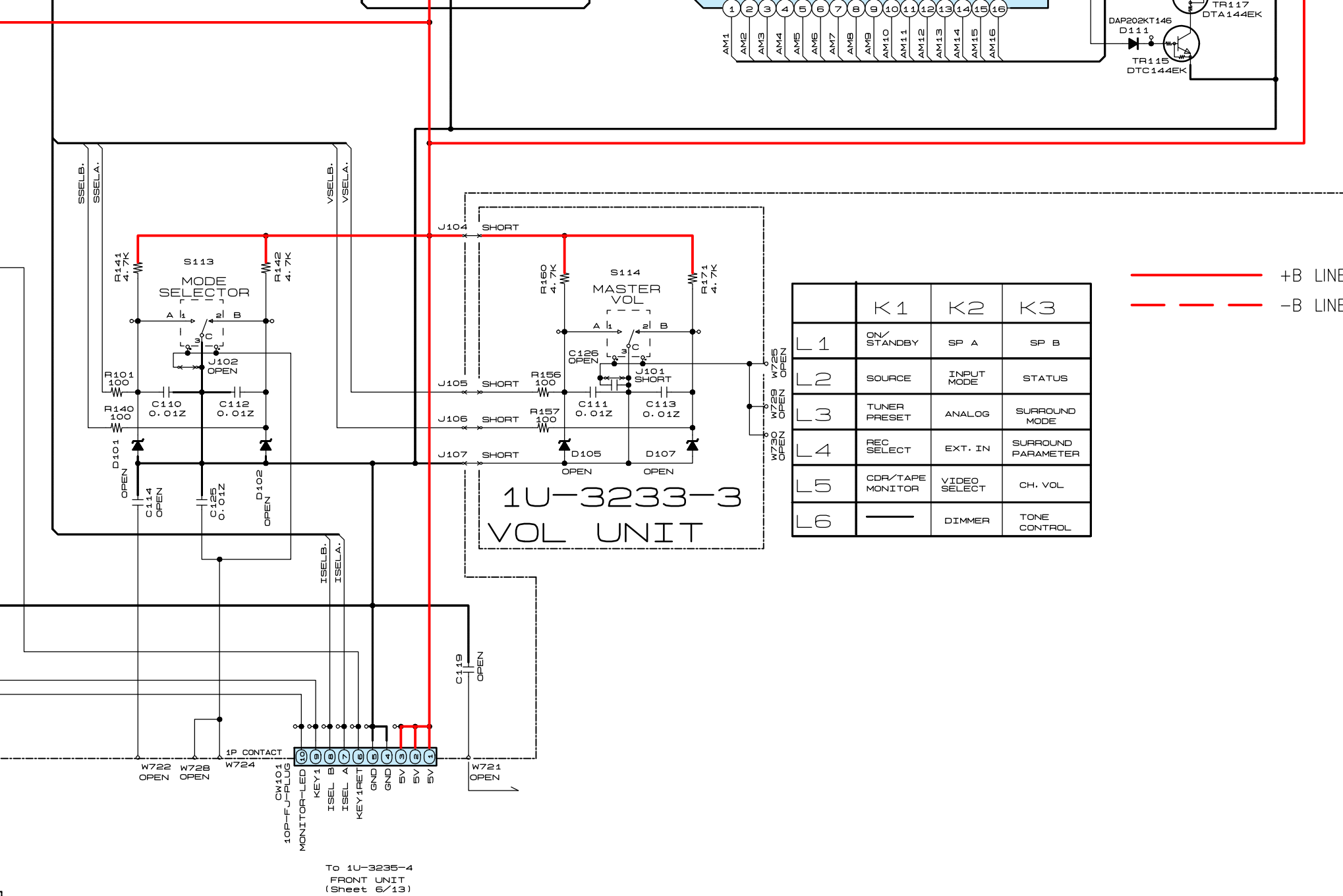


**NOTICE**  
 ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM  
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD  
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT  
 CONDITION.  
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE.

**WARNING:**  
 Parts marked with this symbol  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 milliamps, 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.



	K 1	K 2	K 3
L 1	ON/STANDBY	SP A	SP B
L 2	SOURCE	INPUT MODE	STATUS
L 3	TUNER PRESET	ANALOG	SURROUND MODE
L 4	REC SELECT	EXT. IN	SURROUND PARAMETER
L 5	CDR/TAPE MONITOR	VIDEO SELECT	CH. VOL
L 6	—	DIMMER	tone CONTROL

——— +B LINE  
- - - - - -B LINE

To 1U-3235-4  
FRONT UNIT  
(Sheet 6/13)

**SCHEMATIC DIAGRAMS (11/13)**  
 1U-3233-2 DISPLAY UNIT  
 1U-3233-3 VOL UNIT

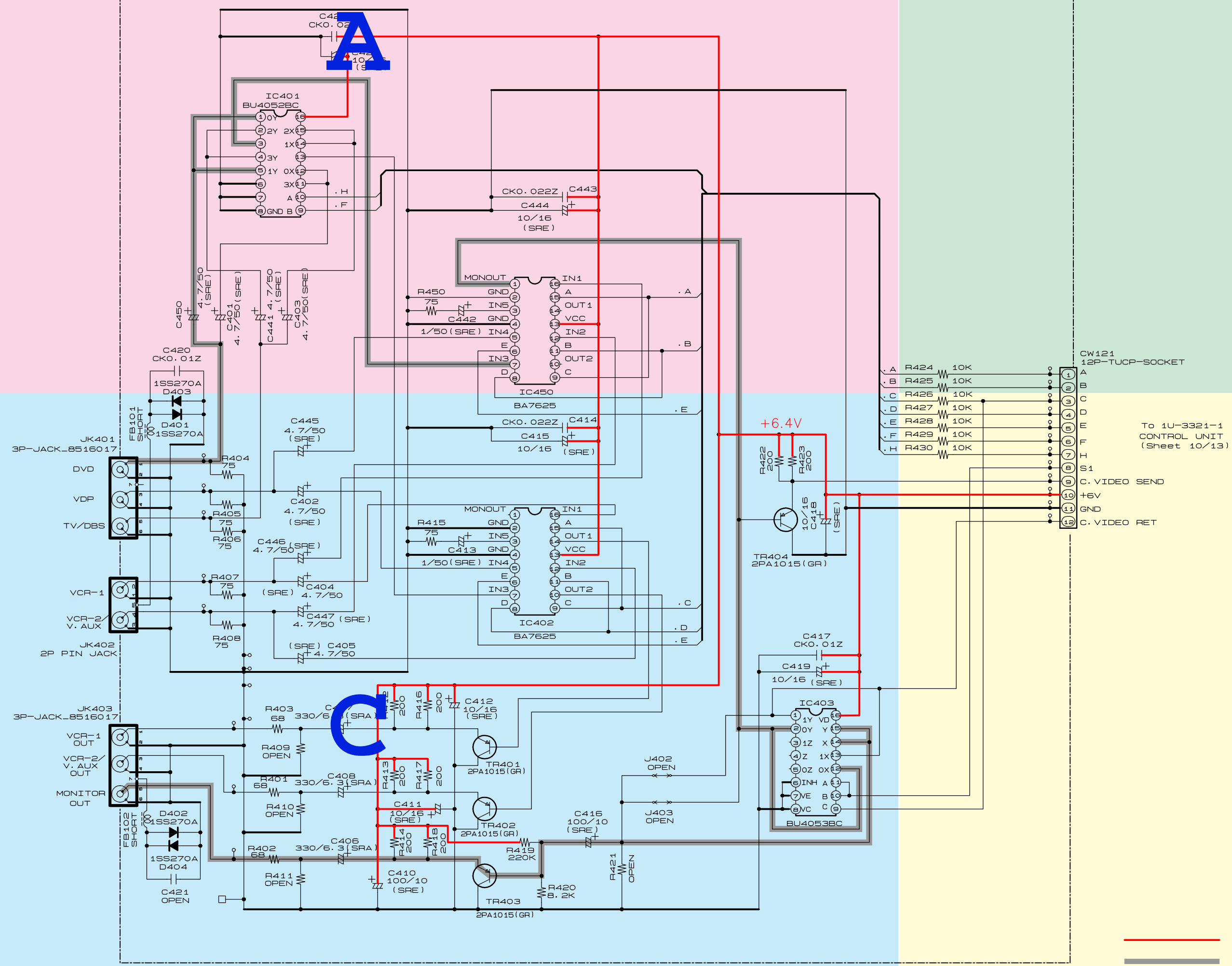
D  
E  
F  
G  
H

SCHMATIC DIAGRAMS (12/13)

1 2 3 4 5 6 7 8 9 10 11

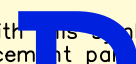
A  
B  
C  
D  
E  
F  
G  
H

1U-3232-2  
C. VIDEO UNIT



B

**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  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 milliamps, 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  
— SIGNAL LINE

SCHMATIC DIAGRAMS (12/13)

1

2

3

4

5

6

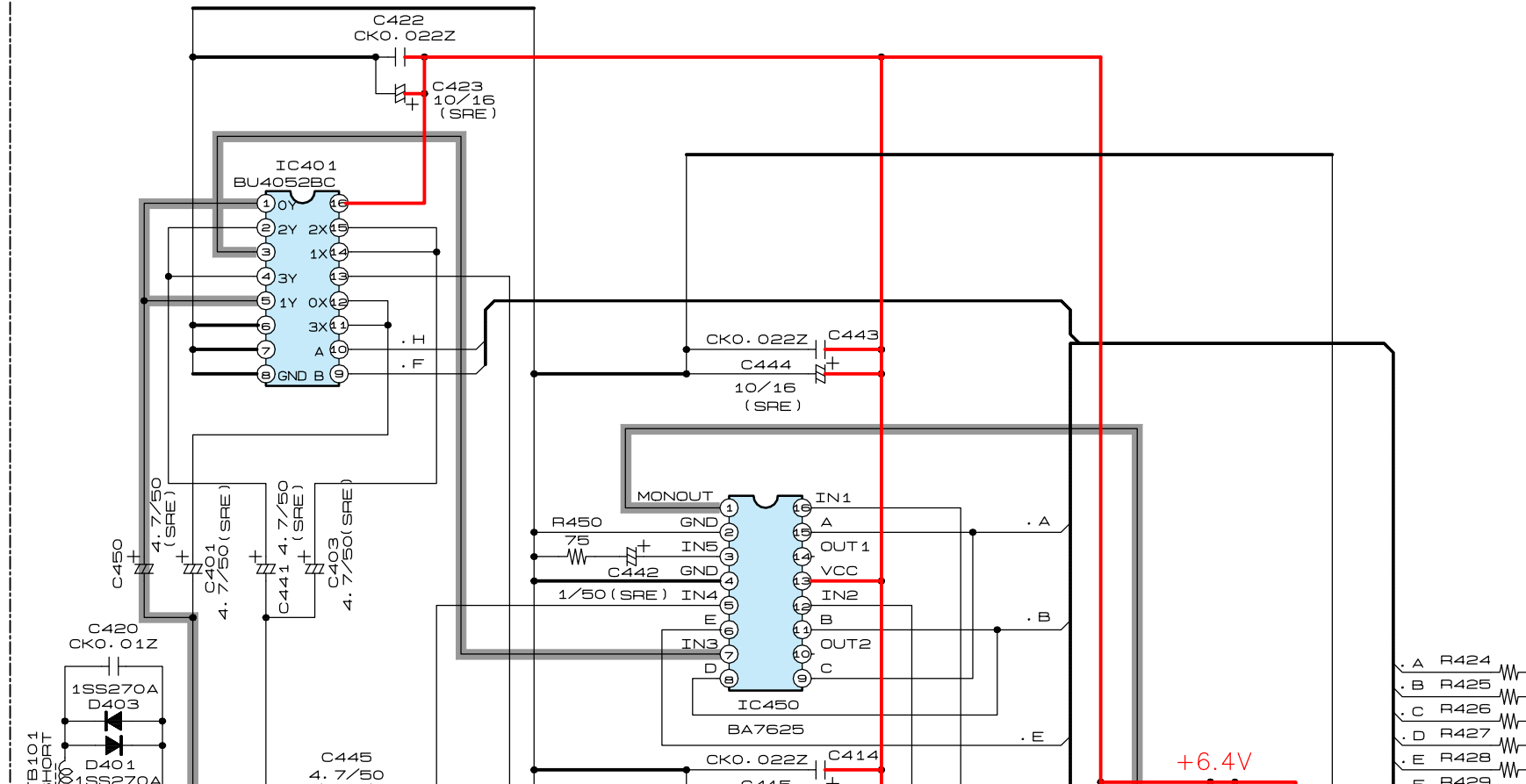
A

B

C

D

1U-3232-2  
C. VIDEO UNIT





6

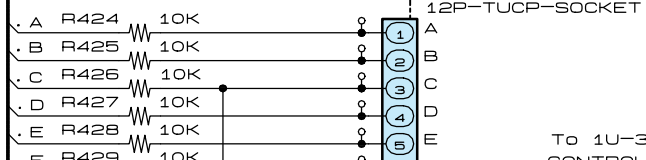
7

8

9

10

11



CW121  
12P-TUCP-SOCKET

A  
B  
C  
D  
E  
F

To 1U-3321-1  
CONTROL UNIT

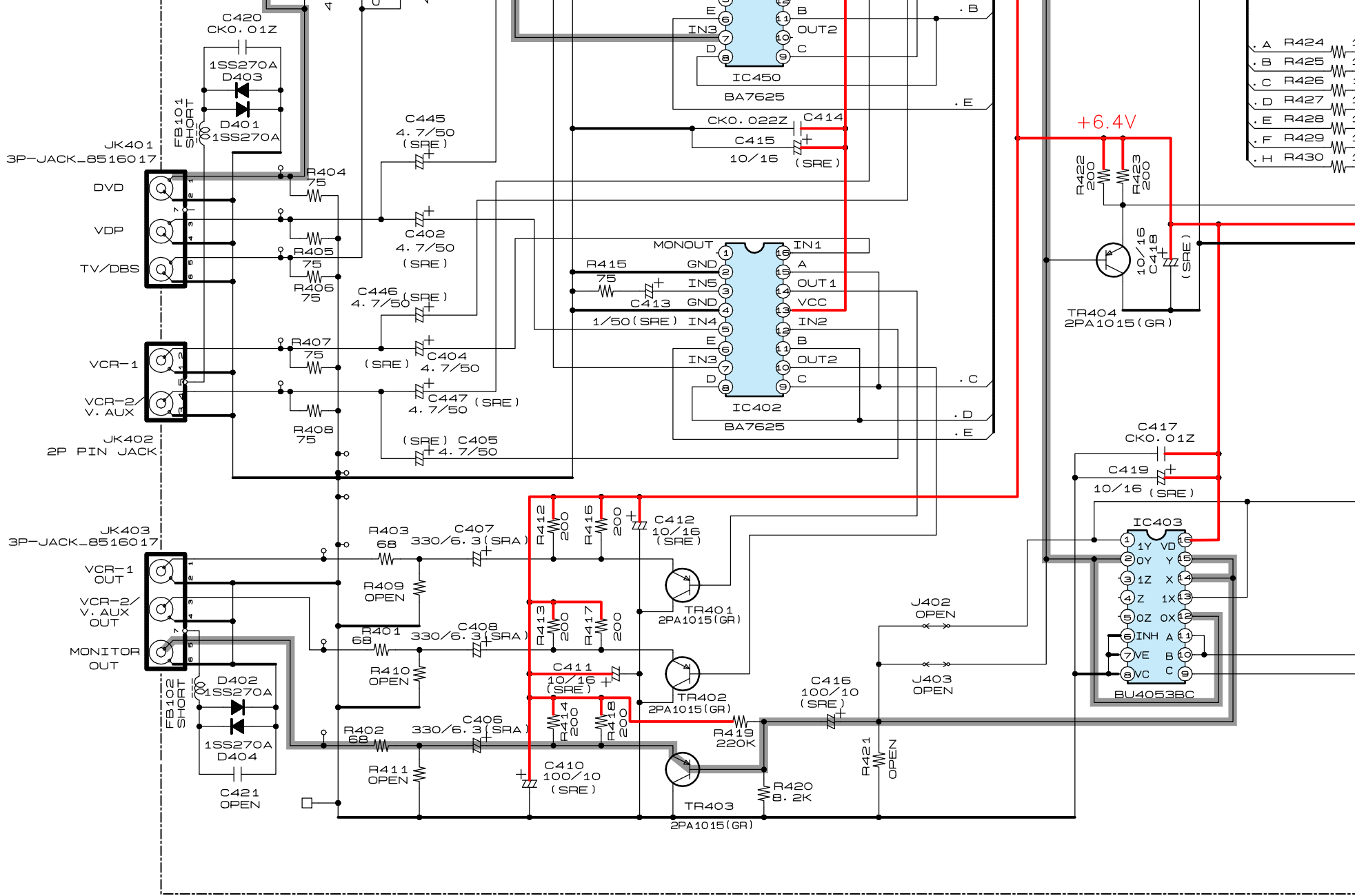
D

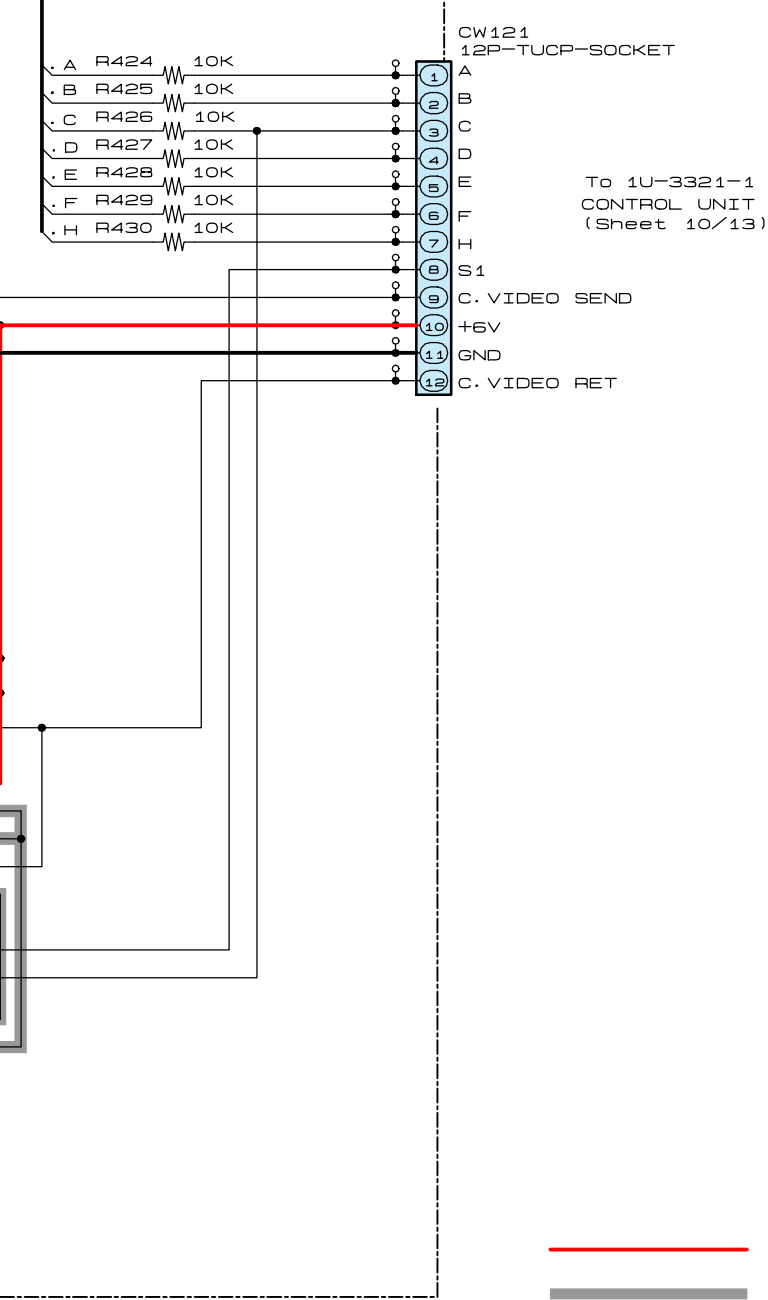
E

F

G

H





**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  have critical characteristics.  
 Use ONLY replacement parts recommended by the manufacturer.

**CAUTION:**

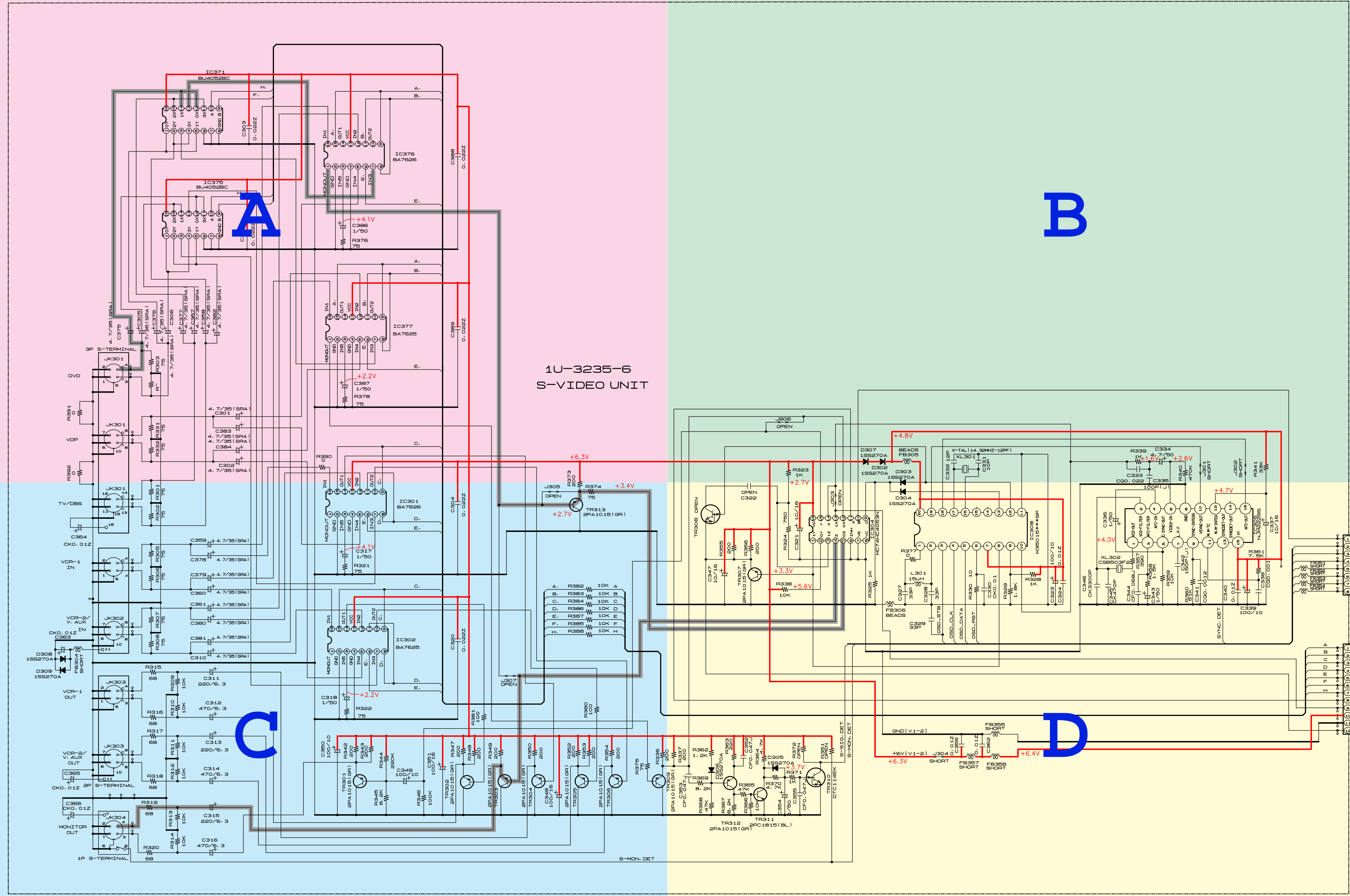
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

**WARNING:**

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

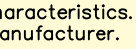
SCHEMATIC DIAGRAMS (13/13)

1 2 3 4 5 6 7 8 9 10 11



1U-3235-6  
S-VIDEO 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 INPUT  
 CONDITION.  
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE.

**WARNING:**  
 Parts marked with this symbol  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.

— +B LINE  
 — SIGNAL LINE





6

7

8

9

10

11

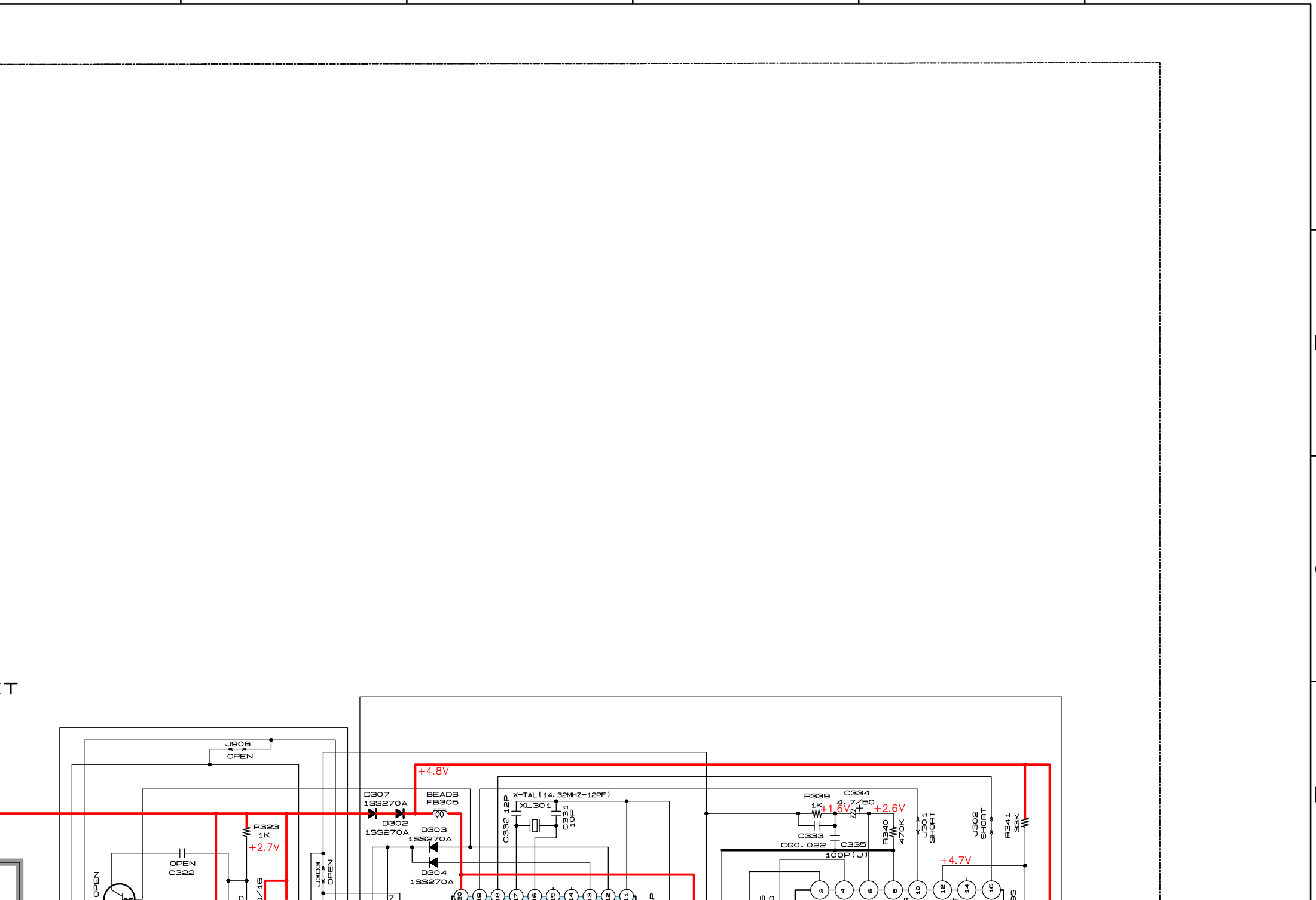
A

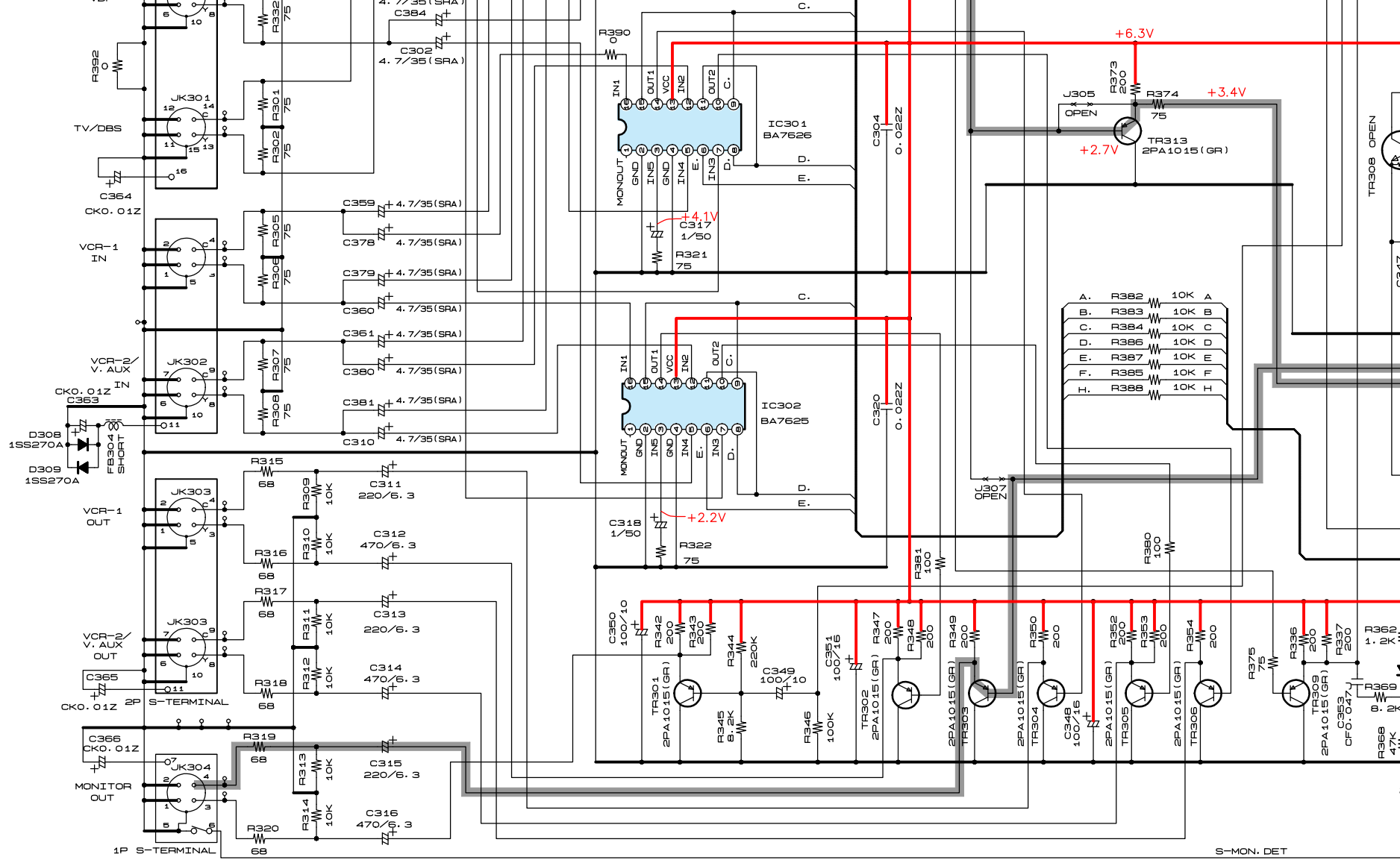
B

C

D

T

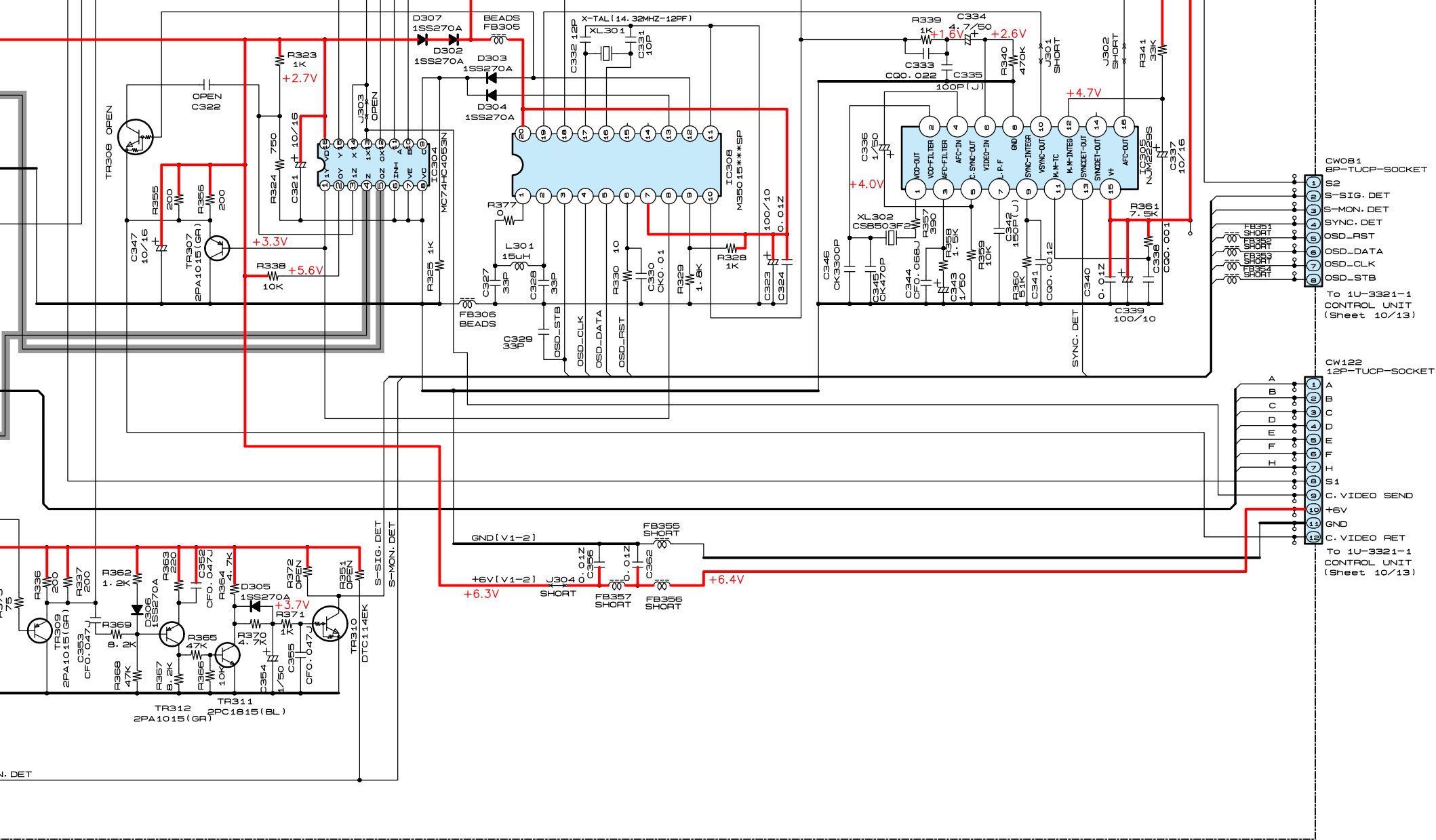




**NOTICE**

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000  
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO  
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL  
 CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE.



OHM M=1,000,000 OHM  
 D. P=MICRO-MICRO FARAD  
 RED AT NO SIGNAL INPUT

NGE WITHOUT PRIOR

**WARNING:**

Parts marked with this symbol  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 milliamps, 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  
 SIGNAL LINE

**SCHEMATIC DIAGRAMS (13/13)**  
 1U-3235-6 S-VIDEO UNIT