

DENON

Hi-Fi AV Surround Receiver

SERVICE MANUAL MODEL AVR-2500 AV SURROUND RECEIVER



The photograph shows the AVR-2500 (black).
(without side wood boards)

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NIPPON COLUMBIA CO., LTD.

SPECIFICATIONS

- Audio Section**

(Power amplifier)

Rated output:
(All properties shown are only for the power amplifier stage.)

	for North America model	for multi-Voltage model
	MAIN (main 2ch driven)	
	85 W + 85 W (8 Ω /ohms, 20 Hz – 20 kHz with 0.05% THD)	110 W + 110 W (6 Ω /ohms, EIAJ)
	CENTER (center 1ch driven)	
	85 W (8 Ω /ohms, 20 Hz – 20 kHz with 0.05% THD)	110 W (6 Ω /ohms, EIAJ)
	REAR (rear 2ch driven)	
	25 W + 25 W (8 Ω /ohms, 1 kHz with 0.1% THD)	30 W + 30 W (6 Ω /ohms, EIAJ) at Dolby PRO LOGIC WIDE MODE

Output terminals:

Main:	A or B	6 to 16 Ω /ohms
	A + B	12 to 16 Ω /ohms
Center:		6 to 16 Ω /ohms
Rear:		6 to 16 Ω /ohms

(Pre-amplifier)

Line input (Each line input – FRONT PRE OUT)

Input sensitivity / impedance: 150 mV / 47 k Ω /ohms PHONO (MM): 2.5 mV / 47 k Ω /ohms

Frequency response: 10 Hz to 50 kHz: ±3 dB

Tone control range:

BASS:	±10 dB at 100 Hz
TREBLE:	±10 dB at 10 kHz

Signal-to-noise ratio (FRONT PRE OUT): 92 dB

Distortion factor: 0.01% 1 kHz 1 V (STEREO mode)

Maximum headphone output: 284 mW (8 Ω /ohms)

Phono equalizer (PHONO input – REC OUT)

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 / 8 V

Distortion factor: 0.03% (1 kHz, 3 V)
- Tuner Section**

	[FM] (note: μV at 75 Ω /ohms, 0 dBf = 1×10^{-15} W)	[AM]
Receiving Range:	87.5 MHz ~ 107.9 MHz (for North America model)	520 kHz ~ 1710 kHz (for North America model)
	87.50 MHz ~ 108.00 MHz (for multi-voltage model)	522 kHz ~ 1611 kHz (for multi-voltage model)
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)	
Signal to Noise Ratio (IHF-A):	MONO 80 dB	50 dB
	STEREO 75 dB	
Total Harmonic Distortion (at 1 kHz):	MONO 0.15%	
	STEREO 0.3%	
- Video Section**

Standard video jacks

Input and output level / impedance: 1 Vp-p / 75 Ω /ohms

Frequency response: 5 Hz to 8 MHz +0, -3 dB

S-video output jacks

Input and output level / impedance: Y (brightness) signal: 1 Vp-p / 75 Ω /ohms
C (color) signal: 0.286 Vp-p / 75 Ω /ohms

Frequency response: 5 Hz to 10 MHz +0, -3 dB
- General**

Power supply: AC 120 V, 60 Hz (for North America model)
AC 115 / 230 V, 50 / 60 Hz (for multi-voltage model)

Power consumption: 5.0 A (for North America model)
270 W (for multi-voltage model)

Maximum external dimensions: 434 (W) × 161 (H) × 433 (D) mm (17-3/32" × 6-11/32" × 17-3/64") (without side wood boards model)
470 (W) × 142 (H) × 433 (D) mm (18-1/2" × 6-3/8" × 17-3/64") (with side wood boards model)

Weight: 11.7 kg (25 lbs 13 oz) (without side wood boards model)
13.0 kg (28 lbs 11 oz) (with side wood boards model)
- Remote control unit (RC-180)**

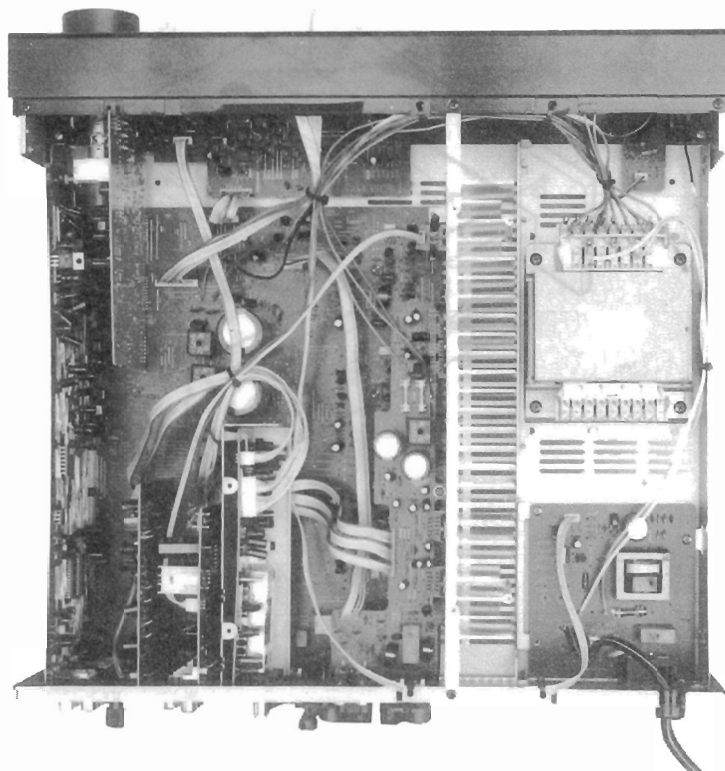
Batteries: R6P / AA Type (two batteries)

External dimensions: 70 (W) × 215 (H) × 19 (D) mm (2-3/4" × 8-15/32" × 3/4")

Weight: 180 g (Approx. 6 oz) (including batteries)

WIRE ARRANGEMENT

In case of wires require unclasping or loosening to move the location to perform adjustment or part replacement, be sure to rearrange them neatly to restore properly in the same location as they were originally placed, or causing to produce a noise may occasionally occur.



DISASSEMBLY

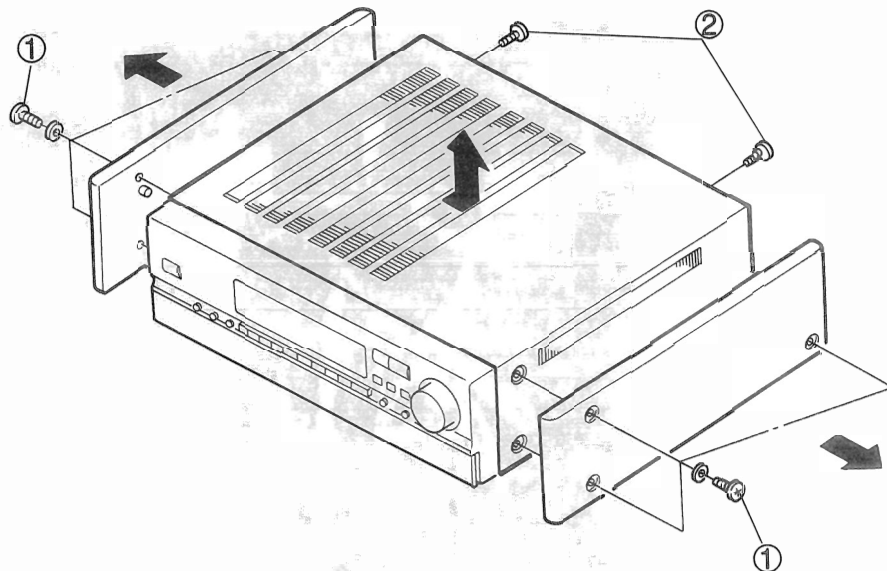
(To reassemble reverse disassembly)

1. Side plates

Remove 3 screws ① each on left and right sides cabinet which fix the both sides.

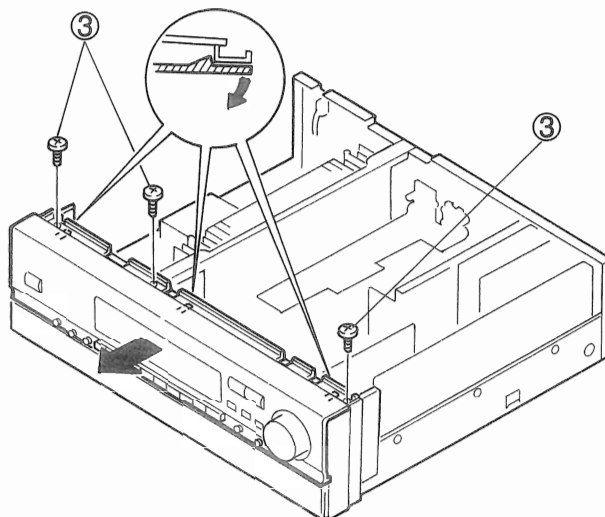
2. Top Cover

Remove 2 rear screws ② .



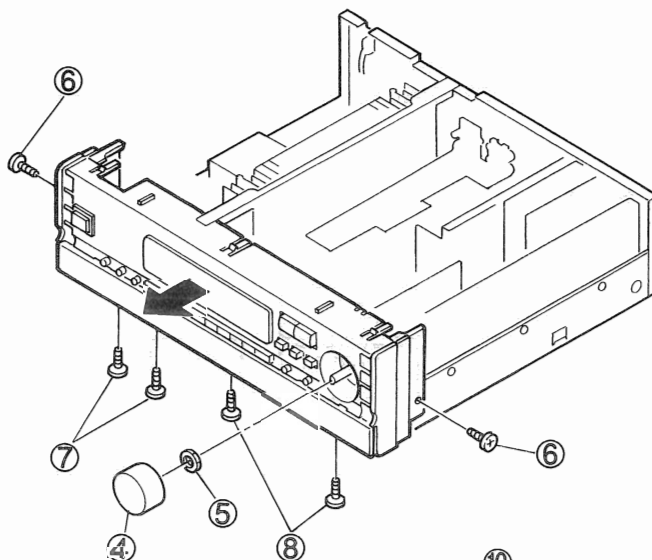
3. Front Aluminium Panel

Remove 3 upper screws ③ , unfasten upper hooks at three places, and detach Panel from upper portion in arrow direction.



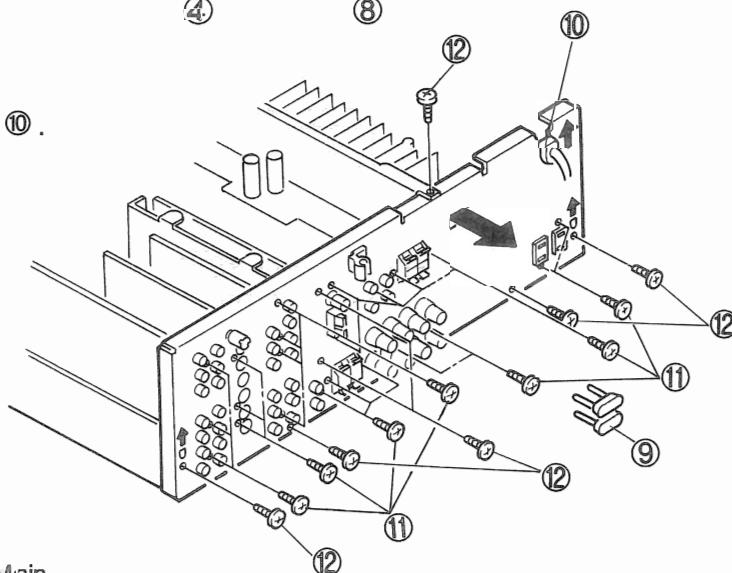
4. Front Mold Panel

- (1) Pull out Master VR Knob ④ and remove nut ⑤ .
- (2) Remove all connector of wire, connected to FLD P.W.B., tone control P.W.B., V.AUX P.W.B. and headphone P.W.B..
- (3) Remove 2 screws ⑥, 2 screws ⑦ and 2 screws ⑧ .



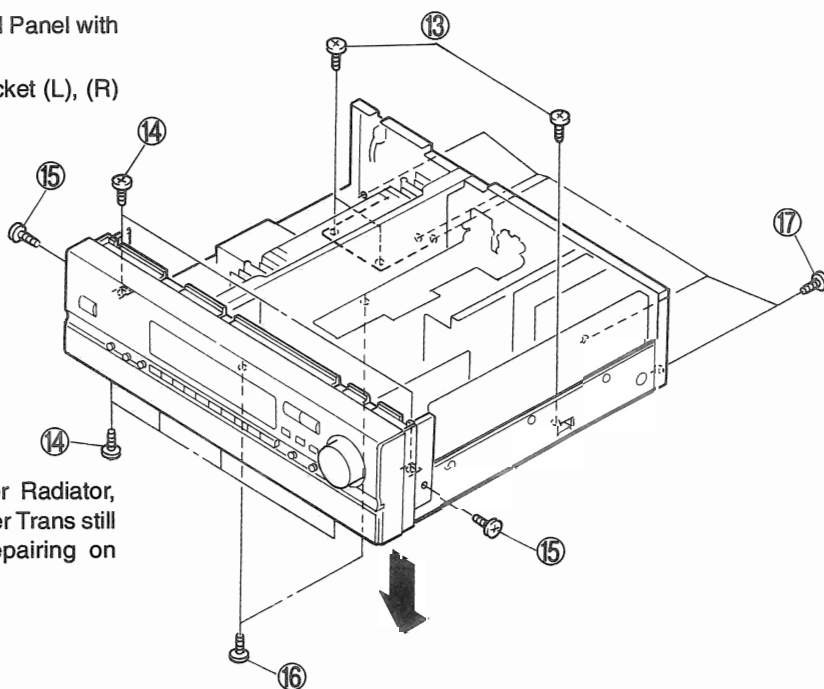
5. Rear Panel

- (1) Remove short circuit pin ⑨, and remove cord bush ⑩ .
- (2) Remove 22 terminal connecting screws ⑪ .
- (3) Remove 7 panel fixing screws (front 6, upper 1 screws ⑫) .



6. Main Chassis

- (1) Remove 3 screws ⑬ securing P.W.B. with Main Chassis.
- (2) Remove 6 screws ⑭ securing Front Mold Panel with Main Chassis.
- (3) Remove 2 screws ⑮ securing Side Bracket (L), (R) with Main Chassis.
- (4) Remove 2 screws ⑯ securing Power Radiator with Main Chassis.
- (5) Remove 5 screws ⑰ securing Rear Panel with Main Chassis.

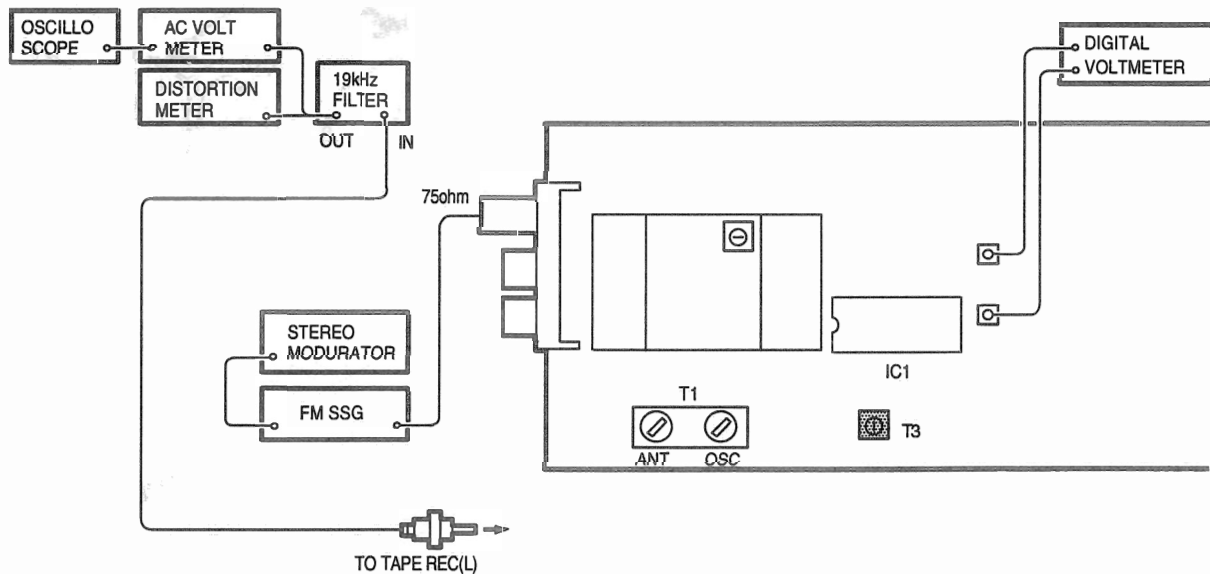


NOTE Then by pulling up, Front Panel, Power Radiator, P.W.B., Rear Panel will be detached Power Trans still remains connected; therefore make repairing on detached Chassis side-up.

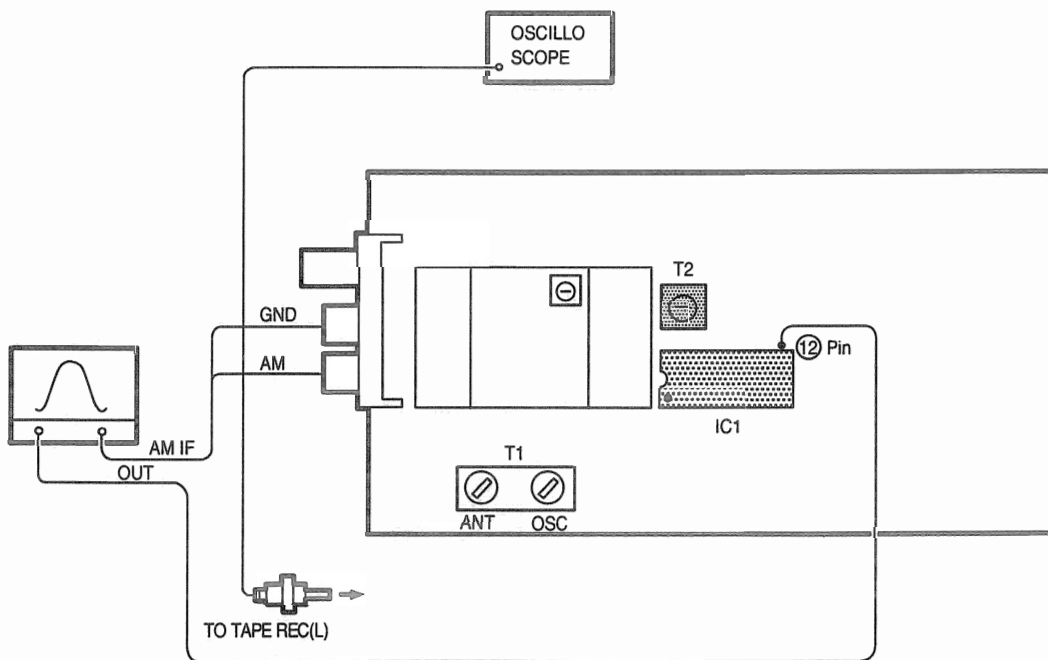
ADJUSTMENT

● 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
1	Tuning Center	98.1 MHz (98.10)	FM SSG	98.1 MHz (98.10)	60 dB μ	None	Antenna Terminal	Digital Voltmeter	T.P. by IC1	T3	\pm 50mV	Function : FM Mode : Auto

() are Europe and Multi-Voltage Models.

AM ALIGNMENT

Step	Alignment Item	Frequency	Input	Output			Adjustment	Remarks
				Type	Connect to	Points		
1	IF	—	IF SWEEP (Input level is not over to work A.G.C.)	Oscilloscope	IC1 12Pin	T2	Maximum height and best symmetry curve	

● **AUDIO SECTION**

Idling Current (1U-2743-1)

Required measurement equipment: DC Voltmeter

Arrangement

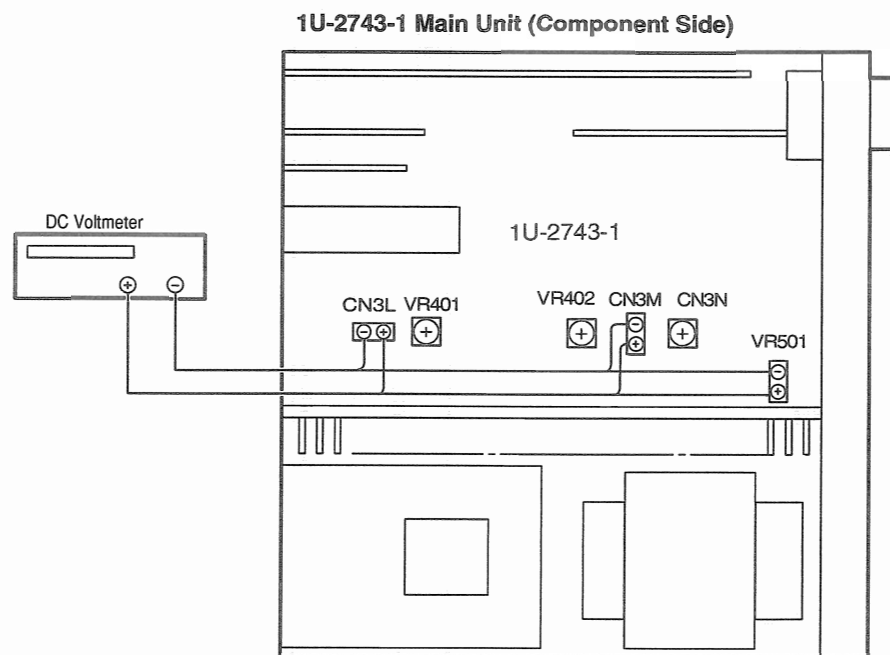
(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C. (59°F ~ 86°F).

(2) Presetting

- POWER (Power source switch) → OFF
- MODE (Mode button) → STEREO
- FUNCTION (Function button) → CD
- VOLUME (Volume control) → 0: fully counterclockwise (⚙ min.)
- BALANCE (Volume control) → 0: (Controls to center)
- BASS, TREBLE (Tone control) → 0: (Controls to center)
- SPEAKER-A (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

- (1) Remove top cover and set VR401, VR402 and VR501 of 1U-2743-1 (Main Unit) at counterclockwise fully.
- (2) Connect DC Voltmeter to test points (Lch CN3L, Rch CN3M, CENTER ch CN3N).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Allow 15 minutes, and turn VR401, VR402 and VR501 clockwise (⚙) and adjust the TEST POINTS voltage to 1.5 mV ± 0.5 mV DC.
- (5) After 2 minutes from preset, turn VR401, VR402 and VR501 to set the voltage to 3 mV ± 0.5mV DC.



● **Initiating (Memory clearing) Method**

To clear memory contents of microcomputer and restore to the initial state, take the following steps;

1. Press power switch, turn off the unit, and set to standby mode.
2. Pull out power cord from wall outlet temporarily.
3. Insert power cord into outlet while simultaneously pressing two keys of AUDIO and VIDEO.
4. Press power switch to confirm that memory contents are cleared.

By completion of the above, the initial state is restored. In case the memory can not be cleared due to some reasons, repeat steps 1 though 3.

FUNCTION OF VIDEO CIRCUIT

1. Detecting S-signal Input

Each input consists the S-terminal and composite video input signal in video signal input. Y-signal (brightness) of S-terminal input is selected by selector IC (IC902) and applied to the base of TR909. TR909 separates the sync signal from Y-signal and outputs through collector. TR910 discriminates the existence of this sync signal and applied to Pin 58 of microcomputer (IC701) via reversal circuit of TR913.

The output of TR913 is: "High" in existing of S-signal, "Low" in no existing. In response to this signal, the microcomputer outputs: "Low" at existing S-signal, "High" at no existing to Pin 62, thus shifts the analog switch (IC903) and selects inputting signal to OSD (IC904).

2. Superimpose

The selected signal by analog switch (IC903) is applied to OSD (IC904) and sync discriminator circuit (IC905). IC905 performs discrimination of sync signal and existence of the signal that are required for superimposing by OSD. Pin 13 of IC905 is in "High" at signal existing and it applies to Pin 60 of microcomputer (IC701).

The microcomputer delivers the data to shift the mode of OSD for internal sync or external sync according to the input of Pin 60.

When OSD is in internal sync mode, makes the sync signal from clock signal of XL901 and outputs the video signal which carries character information from Pin 8.

In external sync mode, to superimpose the character information on the external video signal which is synced and input to Pin 10 with the horizontal and vertical signals from IC905, and emits from Pin 8.

From Pin 13 of OSD, outputs a pulse to become "High" is complying with the character output. In case to superimpose on the video signal from S-terminal input, shifts the analog switch (IC903) by the output of Pin 13 to perform chroma(C) signal ON/OFF.

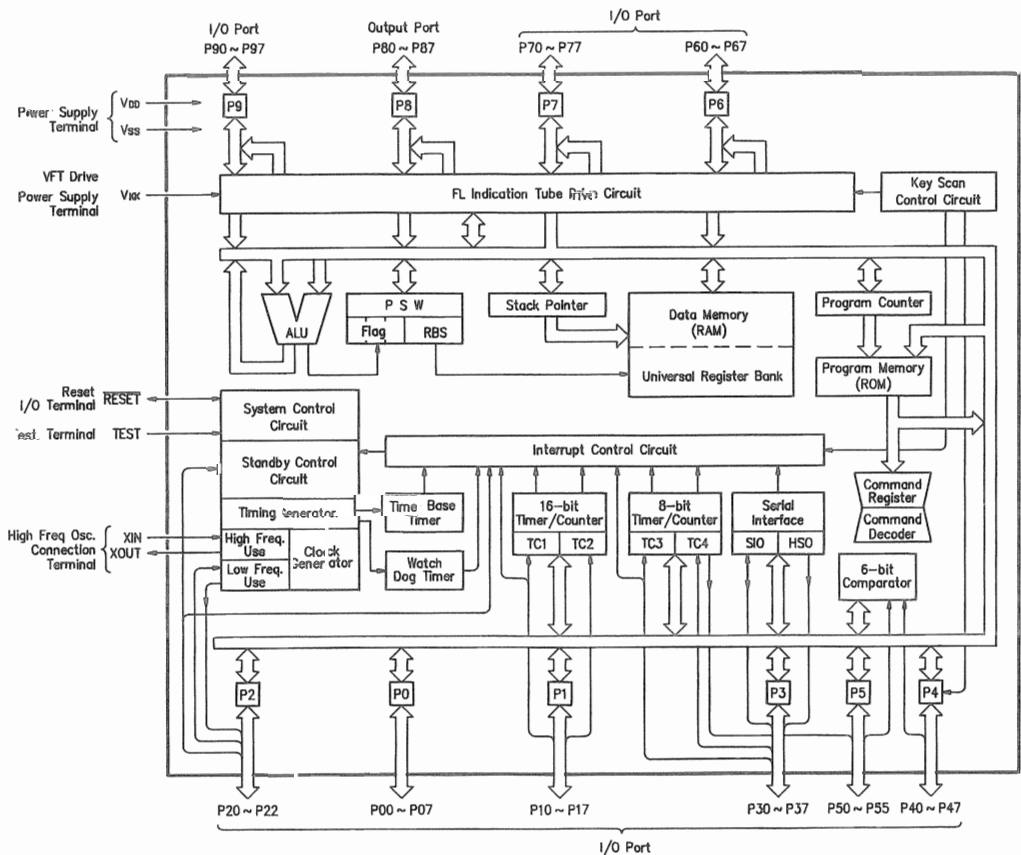
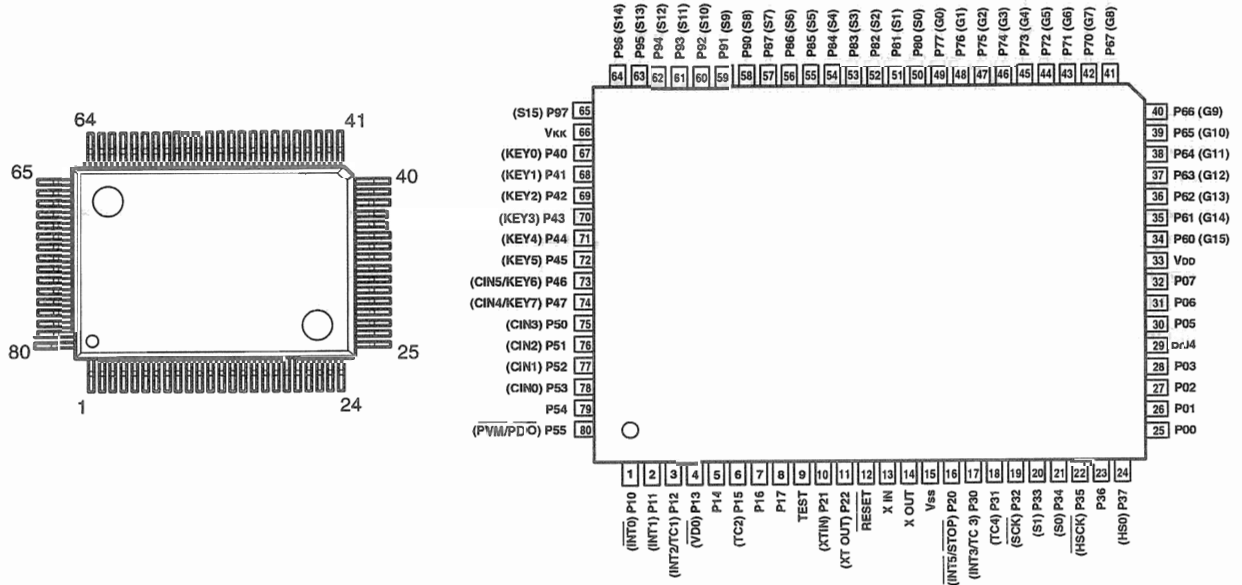
SEMICONDUCTORS

● IC's

Note: Indications before IC numbers denote P.W.B. name.

- MA : Main P.W.B. Unit
- SV : S- Video P.W.B. Unit
- SU : Surround P.W.B. Unit
- FL : FLD P.W.B. Unit

TMP87CP71F-6206 (MA: IC701)



TMP87CP71F-6206 Terminal Function

Pin No.	Port Name	Symbol	I/O	Type	Op	Det	Res	Ini	Function
1	P10/INT 0	POWER DOWN	I	—	Eu	Lv	Z	—	Power down detection ("L" at power down).
2	P11/INT 1	PROTECTION	I	—	Eu	E&L	Z	—	Protection input ("H" at protection).
3	P12/INT 2		O	C	—	—	Z	L	Not used.
4	P13/DVO	STEREO/MONO	O	C	—	—	Z	—	STEREO/MONO control signal ("L" at STEREO).
5	P14	PLL-ST	O	C	—	—	Z	L	LM7001 control output.
6	P15/TC2	PLL-CLK	O	C	—	S	Z	L	LM7001 control output.
7	P16	PLL-DATA	O	C	—	S	Z	L	LM7001 control output.
8	P17	TUNER MUTE	O	C	—	—	Z	—	TUNER MUTE output ("H" at MUTE).
9	TEST	TEST	I	—	GND	—	—	—	Connect to GND.
10	P21/XTIN	STEREO SIGNAL	I	—	Eu	Lv	Z	—	Tune in detection ("L" at tune in).
11	P22/XTO	TUNED SIGNAL	I	—	Eu	Lv	Z	—	"L" at stereo reception.
12	RESET	RESET	I	—	Eu	Lv	Z	—	Reset input.
13	XIN		I	—	—	—	—	—	Oscillation circuit (4MHz).
14	XOUT		O	—	—	—	—	—	Oscillation circuit (4MHz).
15	VSS	GND	I	—	GND	—	—	—	
16	P20/INT 5	RDS START	I	—	—	Ed	Z	—	RDS data input (LC7074).
17	P30/INT 3	REMOCON	I	—	Eu	E&L	Z	—	Remote control signal input.
18	P31/TC4	RDS RES	O	N	Eu	—	Z	H	RDS data input (LC7074).
19	P32/SCK	RDS CLK	I	—	—	S	Z	—	RDS data input (LC7074).
20	P33/SI	RDS DATA	I	—	—	S	Z	—	RDS data input (LC7074).
21	P34/S0		O	N	Eu	—	Z	L	Not used.
22	P35/HSCK	OSD CLK	O	N	Eu	S	Z	H	OSD control output (M35012).
23	P36	OSD CS	O	N	Eu	—	Z	H	OSD control output (M35012).
24	P37/HSO	OSD DATA	O	N	Eu	S	Z	L	OSD control output (M35012).
25	P00	POWER	O	C	—	—	Z	H	Power supply relay control output ("H" at ON).
26	P01	PRO. CNT-E	O	C	—	—	Z	H	Test tone control.
27	P02	PRO. CNT-A	O	C	—	—	Z	L	Test tone control.
28	P03	PRO. CNT-B	O	C	—	—	Z	L	Test tone control.
29	P04	PRO. NORMAL	O	C	—	—	Z	L	Center mode control.
30	P05	PRO. WIDE	O	C	—	—	Z	H	Center mode control.
31	P06	SURR. MODE	O	C	—	—	Z	L	Prologic shifting control output ("L" at STEREO mode).
32	P07	SIM. 1	O	C	—	—	Z	L	DSP input signal control output.
33	VDD	VDD	I	—	—	—	—	—	Connect to +5V.
34	P60	STEREO	O	P	Id	—	L	L	DSP input signal control output.
35	P61	DSP POWER	O	P	Id	—	L	L	DSP power supply control output ("H" at ON).
36	P62	DSP CLK	O	P	Id	S	L	L	DSP control output (DDSC-D).
37	P63	DSP DATA	O	P	Id	S	L	L	DSP control output (DDSC-D).
38	P64	DSP CD	O	P	Id	S	L	L	DSP control output (DDSC-D).
39	P65	DSP CS	O	P	Id	S	L	L	DSP control output (DDSC-D).
40	P66	DSP RES	O	P	Id	—	L	L	DSP control output (DDSC-D).
41	P67	CINEMA	O	P	Id	—	L	L	CINEMA control output ("H" at ON).
42	P70	AVSE	O	P	Id	—	L	H	AVSE control output ("L" at ON).
43	P71	E. VOL CLK	O	P	Id	—	L	L	Electronic volume control output. (TC9299).
44	P72	E. VOL DATA	O	P	Id	—	L	L	Electronic volume control output. (TC9299).
45	P73	E. VOL ST	O	P	Id	—	L	L	Electronic volume control output. (TC9299).
46	P74	VOL. UP	O	P	Id	—	L	L	Electronic volume control output. (BA6208F).
47	P75	VOL. DOWN	O	P	Id	—	L	L	Electronic volume control output. (BA6208F).
48	P76	FL DATA	O	P	Id	—	L	H	FL tube indication control output (MSC1937).
49	P77	FL RES	O	P	Id	—	L	L	FL tube indication control output (MSC1937).
50	P80	FL CLK	O	P	Id	—	L	H	FL tube indication control output (MSC1937).
51	P81	STANDBY LED	O	P	Id	—	L	H	Standby indication LED drive output ("H" at lighted).

Pin No.	Port Name	Symbol	I/O	Type	Op	Det	Res	Ini	Function
52	P82	TONE DEFEAT /DIRECT	O	P	Id	—	L	H	Tone defeat/direct control output ("L" at ON).
53	P83	H/P PRE MUTE	O	P	Id	—	L	H	Headphone and pre-out relay control output ("L" at MUTE).
54	P84	SP-CENTER	O	P	Id	—	L	L	Center speaker relay control output ("L" at MUTE).
55	P85	SP-REAR	O	P	Id	—	L	L	Rear speaker relay control output ("L" at MUTE).
56	P86	SP-B	O	P	Id	—	L	L	Front B speaker relay control output ("L" at MUTE).
57	P87	SP-A	O	P	Id	—	L	H	Front A speaker relay control output ("L" at MUTE).
58	P90	S-MONITOR DET.	I	—	Eu	Lv	L	—	S-monitor connection existence judgement ("L" at connecting).
59	P91	S-SIGNAL DET.	I	—	Eu	Lv	L	—	S-signal input control ("H" at S-signal input).
60	P92	OSD SYNC DET.	I	—	Eu	Lv	L	—	OSD sync shifting ("H" at external sync).
61	P93	S2	O	P	Id	—	L	—	Video signal shifting control output.
62	P94	S1	O	P	Id	—	L	—	Video signal shifting control output.
63	P95	FUNC CLK	O	P	Id	S	L	L	Function control output (TC9273).
64	P96	FUNC DATA	O	P	Id	S	L	L	Function control output (TC9273).
65	P97	FUNC ST	O	P	Id	—	L	L	Function control output (TC9273).
66	VKK	VKK	I	—	—	—	—	—	Connect to GND.
67	P40/KEY0	OSD RES	O	N	Eu	—	Z	H	OSD control output (M35012).
68	P41/KEY1	A	O	N	Eu	—	Z	H	Video input control ("L" at selection) BA7625, BA7626.
69	P42/KEY2	B	O	N	Eu	—	Z	H	Video input control ("L" at selection) BA7625, BA7626.
70	P43/KEY3	C	O	N	Eu	—	Z	H	Video output control ("L" at selection) BA7625, BA7626.
71	P44/KEY4	D	O	N	Eu	—	Z	H	Video output control ("L" at selection) BA7625, BA7626.
72	P45/KEY5	E	O	N	Eu	—	Z	H	Video input/output control ("L" at selection) BA7625, BA7626.
73	P46/CIN5	MODE	I	—	Eu	Lv	Z	—	Forward country shifting input.
74	P47/CIN4	KEY5	I	—	Eu	Lv	Z	—	Button input 5.
75	P50/CIN3	KEY4	I	—	Eu	Lv	Z	—	Button input 4.
76	P51/CIN2	KEY3	I	—	Eu	Lv	Z	—	Button input 3.
77	P52/CIN1	KEY2	I	—	Eu	Lv	Z	—	Button input 2.
78	P53/CIN0	KEY1	I	—	Eu	Lv	Z	—	Button input 1.
79	P54	TAPE INH	O	N	Eu	—	Z	H	TAPE INH. control output ("L" at INH).
80	P55/PMW	MULTI MUTE	O	N	Eu	—	Z	L	Multi control output ("H" at MULTI output in MUTE).

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 output of part.

"I" = Input port

"O" = Output port

Type : Composition of port in case of output port.

"C" = CMOS output

"N" = NMOS open drain output

"P" = PMOS open drain output.

Op : Pull up/Pull down selection information.

"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

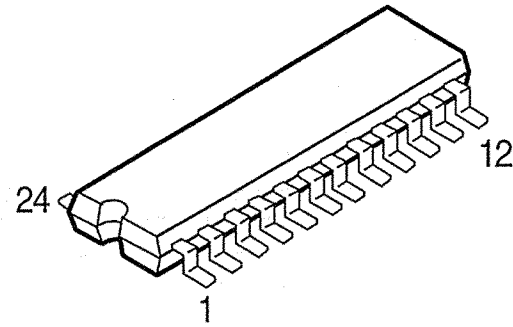
"L" = Outputs Low Level at reset

"Z" = Becomes High Impedance mode at reset.

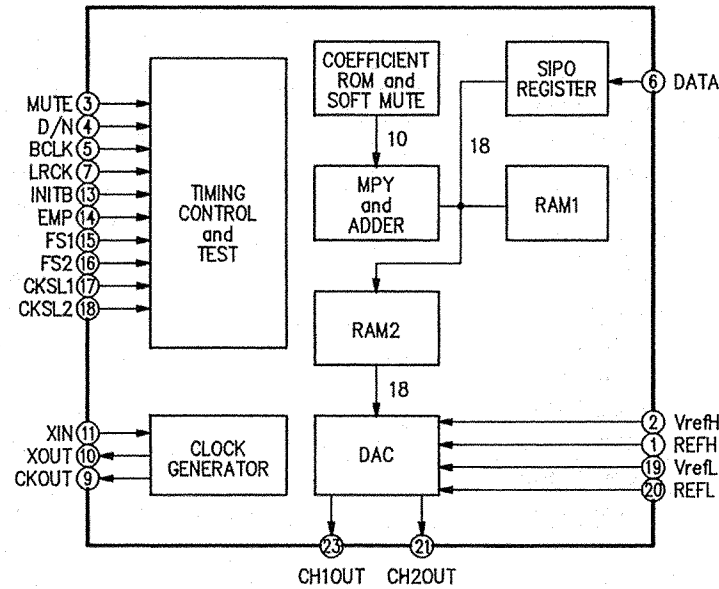
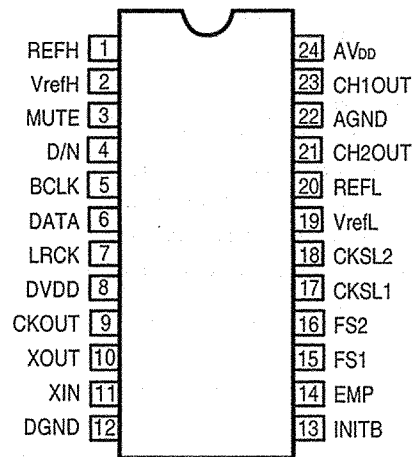
Ini : Initial output state.

Function : Function and logical level explanation of signals to be interface.

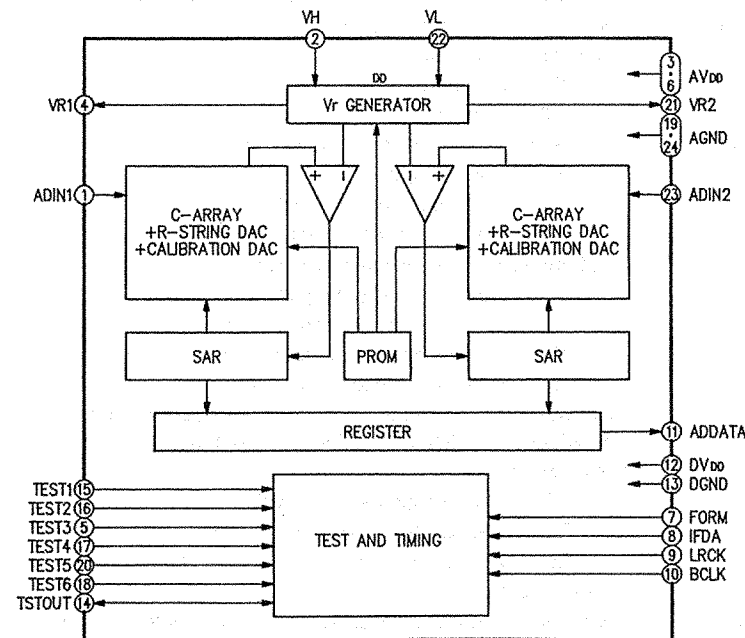
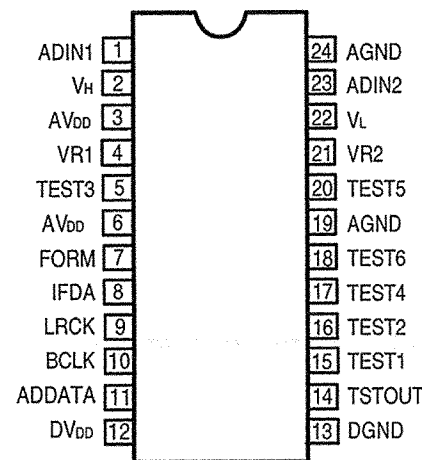
LC78835M (SU: IC210, 211)
LC7886MN (SU: IC207)



LC78835M



LC7886MN



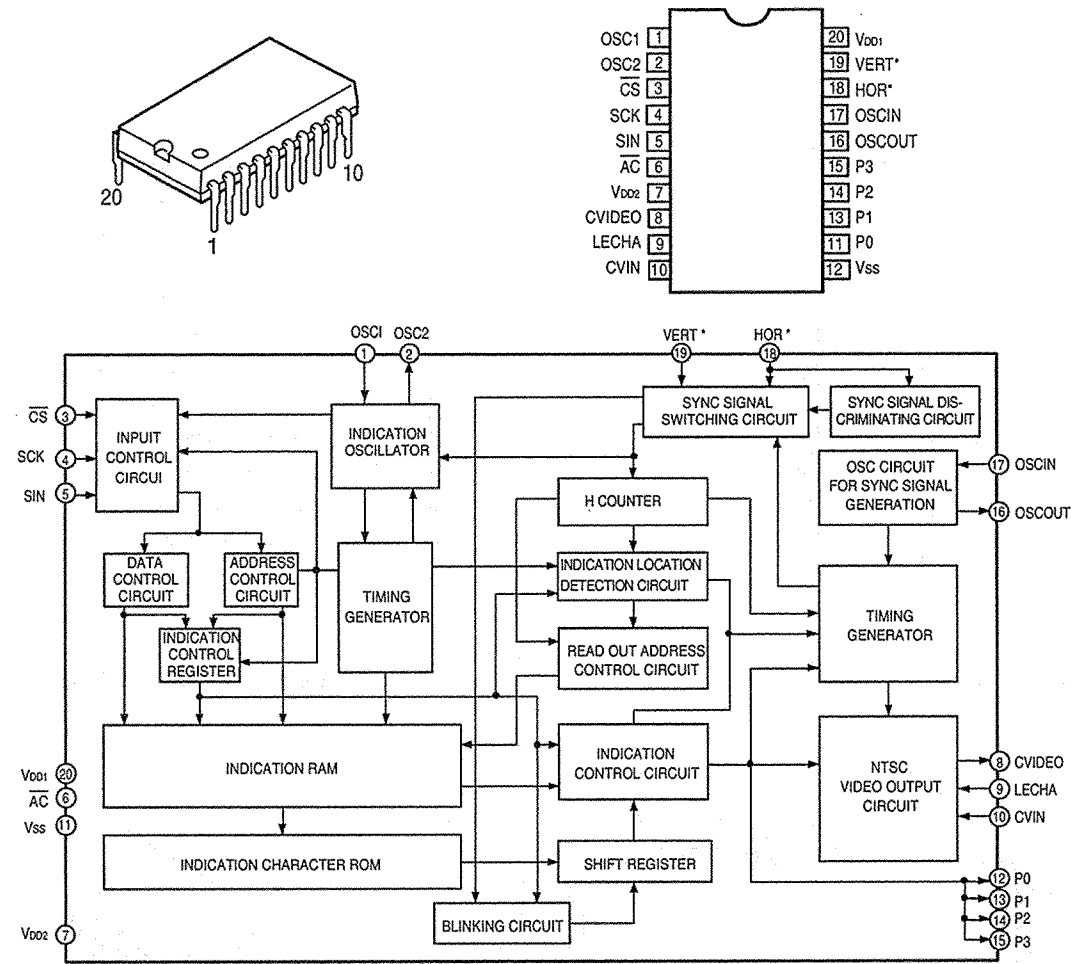
LC78835M Terminal Function

Pin No.	Symbol	Function						
1	REFH	Reference voltage "H" pin. Normally connected to AGND via a capacitor.						
2	VrefH	Reference voltage "H" input pin.						
3	MUTE	Muting signal input pin. Soft muting on at "H".						
4	D/N	Standard/high speed operation mode switching pin. High speed operation at "H", standard operation at "L".						
5	BCLK	Bit clock input pin.						
6	DATA	Digital audio data input pin. Input with 2's compliment, MSB first.						
7	LRCK	LR clock input pin. CH1 at "H" and CH2 at "L".						
8	DVDD	Digital system power supply pin.						
9	CKOUT	Clock output pin. Clock of XIN frequency.						
10	XOUT	Crystal oscillator output pin (system clock output pin).						
11	XIN	Crystal oscillator output pin (system clock output pin).						
12	DGND	Digital system ground pin						
13	INITB	Initialization signal input pin. Initialization performed at "L".						
14	EMB	De-emphasis filter on/off switching pin. on at "H" and off at "L"						
15	FS1	Selection pins for the 32kHz/44.1kHz/48kHz modes of the de-emphasis filter. Connected DGND						
16	FS2							
17	CKSL1	System Clock selection pins.						
18	CKSL2							
		<table border="1"> <thead> <tr> <th>CKSL1</th> <th>CKSL2</th> <th>System Clock</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>H</td> <td>512fs</td> </tr> </tbody> </table>	CKSL1	CKSL2	System Clock	H	H	512fs
CKSL1	CKSL2	System Clock						
H	H	512fs						
19	VrefL	Reference voltage "L" input pin.						
20	REFL	Reference voltage "L" pin. Normally connected to AGND via a capacitor.						
21	CH2OUT	CH2 analog output pin.						
22	AGND	Analog system ground pin.						
23	CH1OUT	CH1 analog output pin.						
24	AVDD	Analog system power supply pin.						

LC7886MN Terminal Function

Pin No.	Symbol	Function
1	ADIN1	CH1 analog input terminal.
2	Vh	Reference voltage "H" input terminal.
3	AVDD	Analog power supply voltage terminal.
4	VR1	CH1 (VH+VL)/2 reference voltage output terminal.
5	TEST3	Test terminal. Normally, connect to analog GND.
6	AVDD	Analog power supply voltage terminal.
7	FORM	Input terminal responds to: FORM = "L" level, LRCK = CH1 at "H" level, LRCK = CH2 at "L" level.
8	IFDA	Input terminal responds to: IFDA = Digital data is 16-bit at "L" level.
9	LRCK	Input terminal: Designates CH1, CH2 of output digital data (ADDATA) (Refer to Pin 7 FORM).
10	BCLK	Input terminal: Bit clock terminal. Clock to output digital data to bit serial.
11	ADDATA	Data output terminal: Bit serial output from MSB side. Data is output by 2's complement system.
12	DVDD	Digital power supply voltage terminal.
13	DGND	Digital GND terminal.
14	TSTOUT	Test terminal. normally, connect to digital GND.
15	TEST1	
16	TEST2	
17	TEST4	
18	TEST6	
19	AGND	
20	TEST5	Test terminal. Normally, connect to analog GND.
21	VR2	CH2 (VH+VL)/2 reference voltage output terminal.
22	VL	Reference voltage "L" input terminal.
23	ADIN2	CH2 analog input terminal.
24	AGND	Analog GND terminal.

M35012-081SP (SV: IC904)

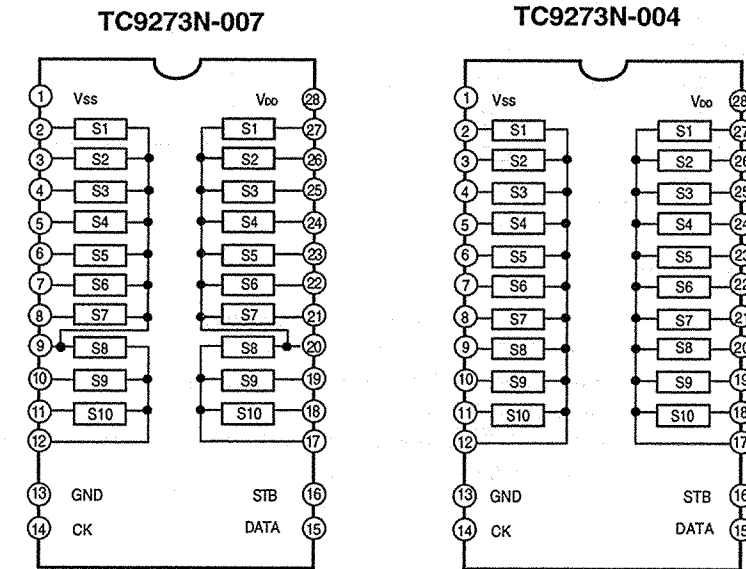
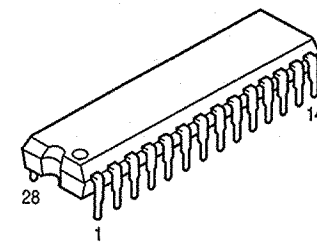


M35012-081SP Terminal Function

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 indication locatin 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 \overline{CS} terminal is in "L". Hysteresis input. Pull up resrist is built-in.
5	SIN	Serial data Input	I	Serial input of register for indication control and data, and address for indication data memoly. 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	V _{DD2}	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 video 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	V _{SS}	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.

Pin No.	Symbol	Name	I/O	Function
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	I	Inputs vertical sync signal. Hysteresis input. Polarity can be selected at ROM mask.
20	V _{DD1}	Power supply	—	Power supply terminal of digital system. Connect to +5V.

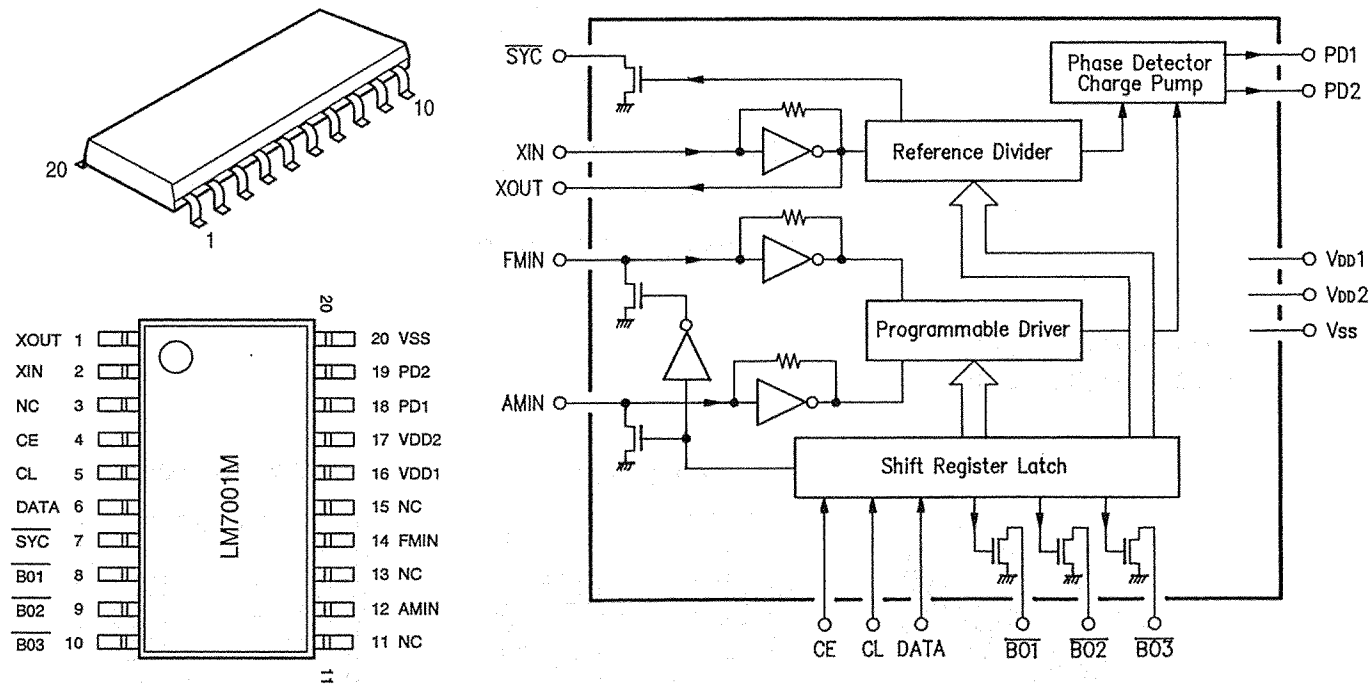
TC9273N-007 (SU: IC103)
TC9273N-004 (SU: IC104)



TC9273N Terminal Function

Pin No.	Symbol	Name	Function	Note
1	V _{SS}	-Power Terminal	Dual Power Use: V _{DD} = 8.0~17V GND = 0V V _{SS} = -8.0~-17V Single Power Use: V _{DD} = 8.0~18V V _{SS} = GND = 0V	—
13	GND	Digital Ground		
28	V _{DD}	+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.	

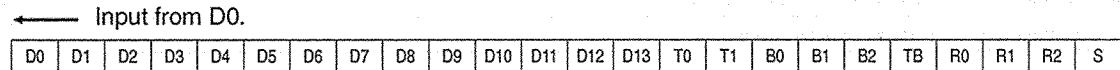
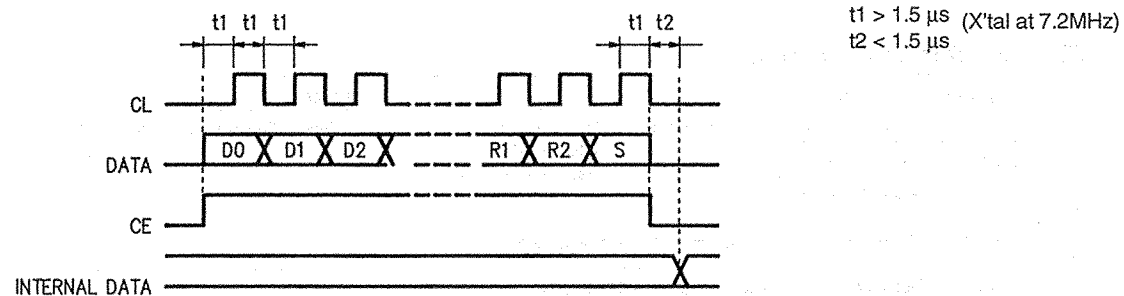
LM7001M
(FL: IC003)



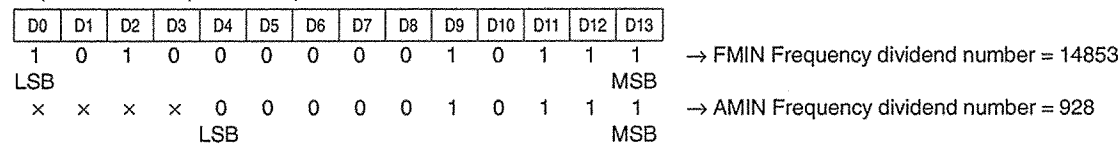
Terminal Description

- SYC : Clock for controller (400 kHz)
- XIN, XOUT : X'tal OSC (7.2MHz)
- FMIN, AMIN : Station oscillation signal input.
- CE, CL, DATA : Data input.
- BO1, BO2, BO3: Band data output. BO1 is feasible for time base output (8Hz).
- VDD1, VDD2, VSS: Power supply. (VDD2 is for back-up)
- PO1, PO2 : Charge pump output.

Data input

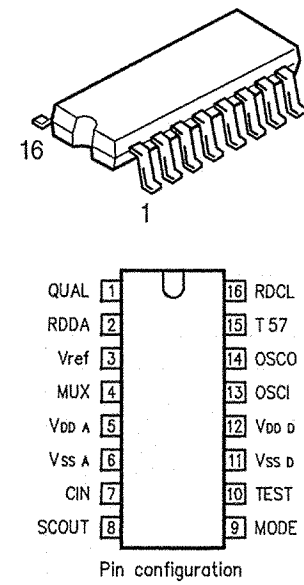


(1) D0 (LSB)~D13 (MSB) :Frequency dividend data
For FMIN, use D0~D13; for AMIN, use D4~D13.



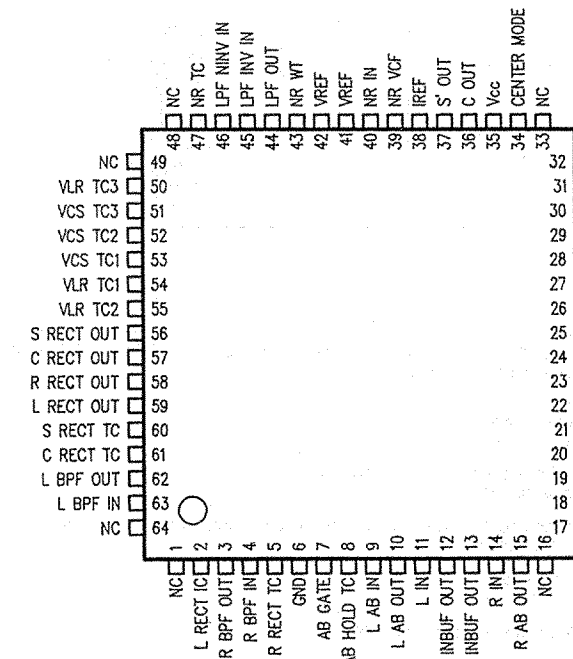
(2) T0, T1 : For test of LSI(0,0)

SAA6579T (MA: IC703)

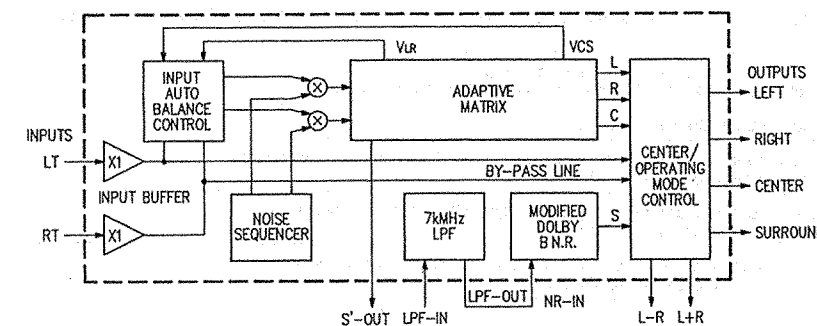
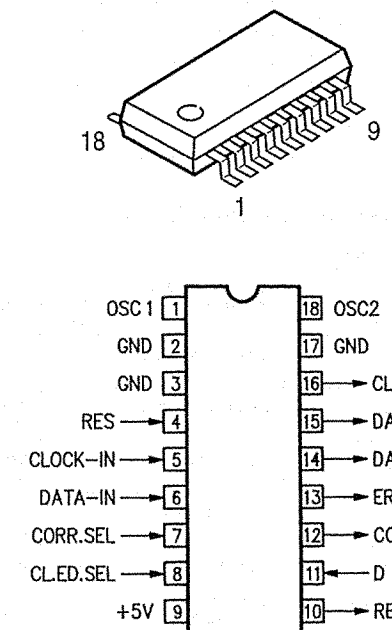


Pin No.	Symbol	Description
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	Vref	Reference voltage output (0.5 VDDA).
4	MUX	Multiplex signal input.
5	VDDA	+5V supply voltage for analog part.
6	VSSA	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier output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

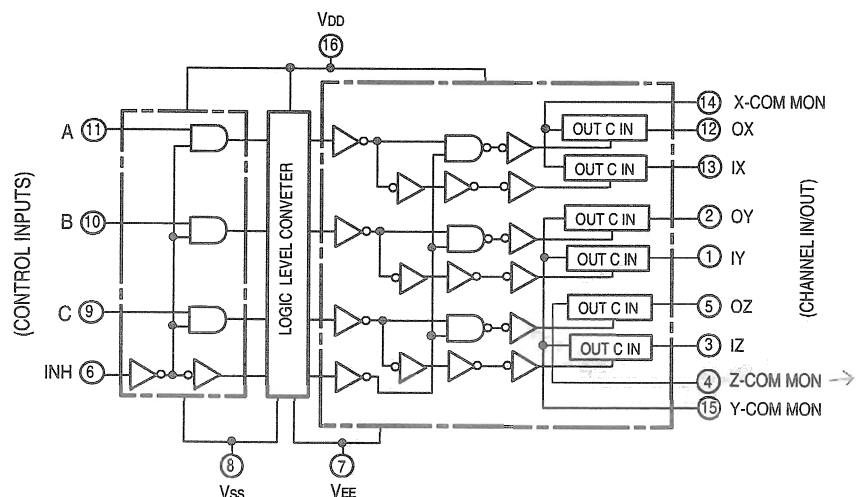
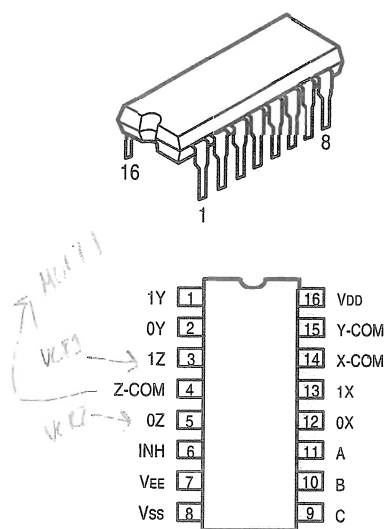
DDSC-A (SU: IC201)



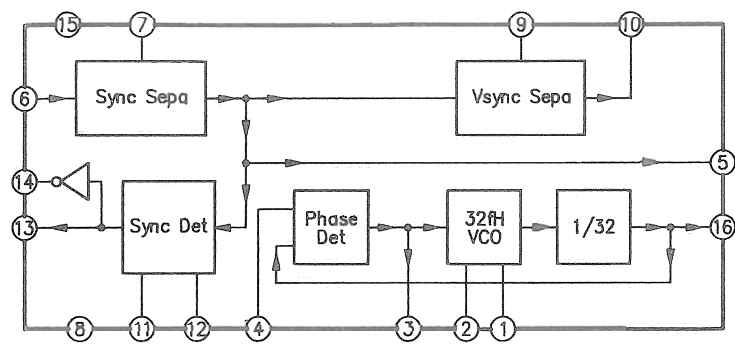
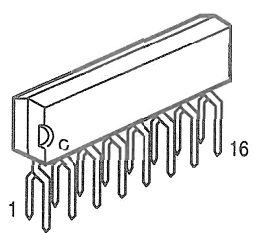
LC7074M (MA: IC702)



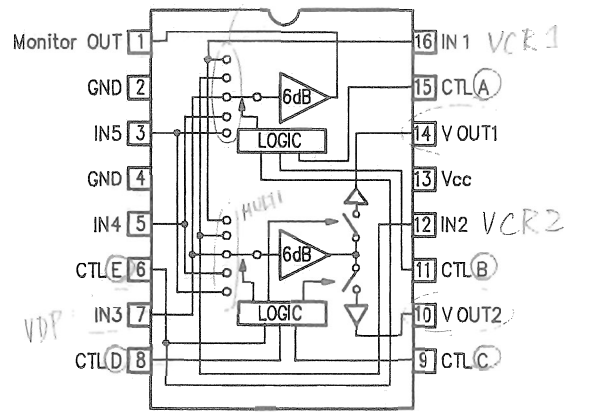
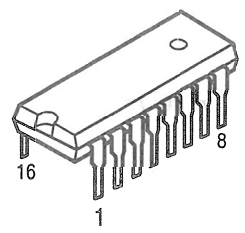
TC4053BP (SU: IC804)



NJM2229S (SV: IC905)



BA7625 (SU: 801) (SV: IC902)
BA7626 (SV: 901)



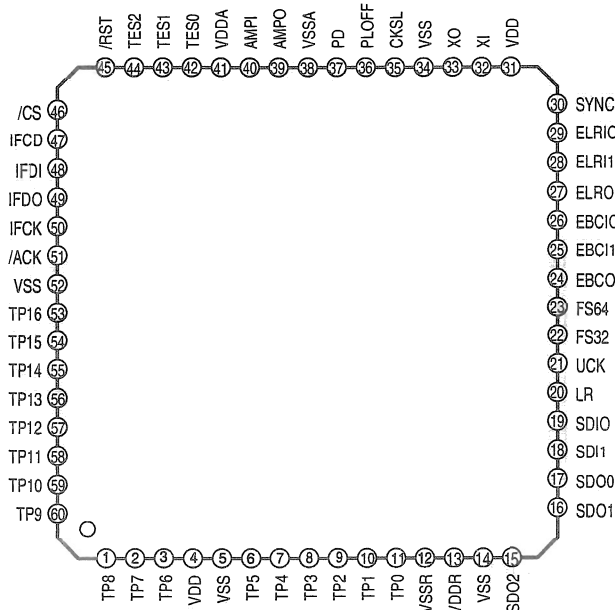
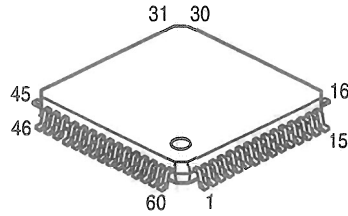
A	B	E	MONITOR OUT
L	L	*	IN 1
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

C	D	E	V OUT 1
L	L	*	—
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

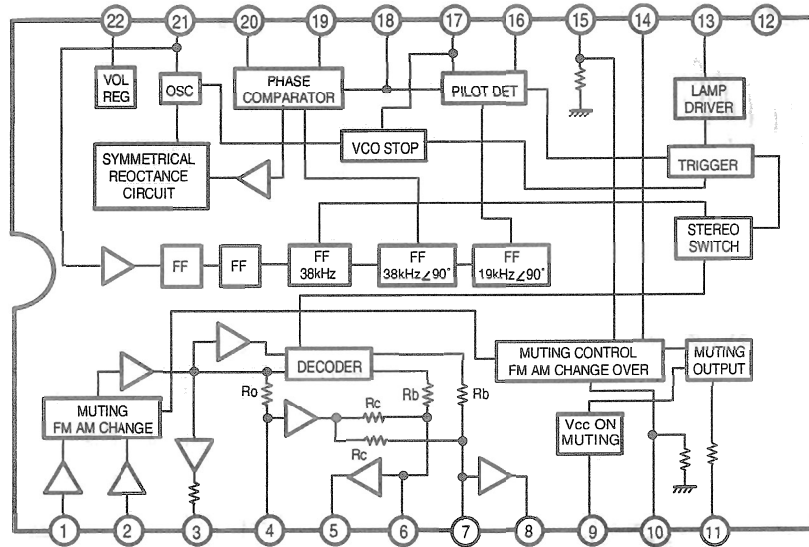
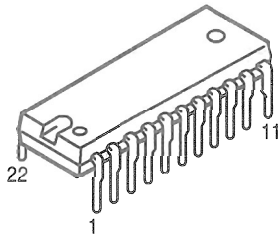
C	D	E	V OUT 2
L	L	*	IN 1
H	L	*	—
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

Note 1: * mark means that feasible for either H or L.
 Note 2: Each input terminal is provided with sink chip clamp (BA7625).
 Each input terminal takes 20kohm at the end (BA7626).

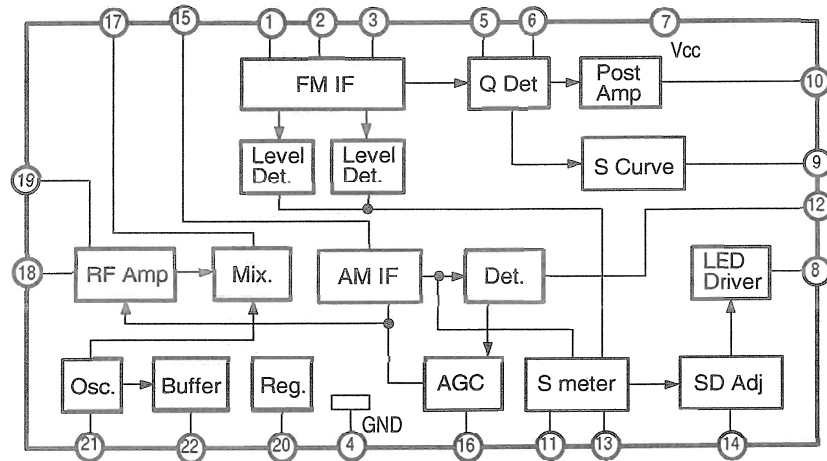
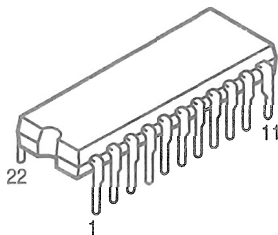
DDSC-D
(SU: IC208)



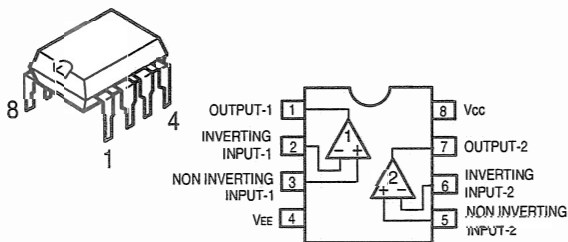
LA3401
(FL: IC002)



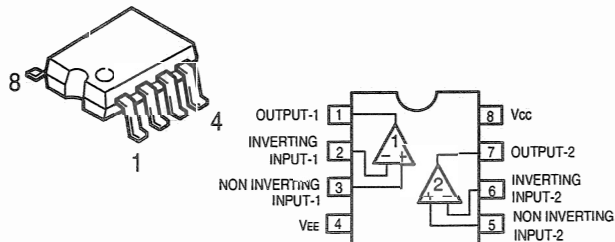
LA1265 (S)
(FL: IC001)



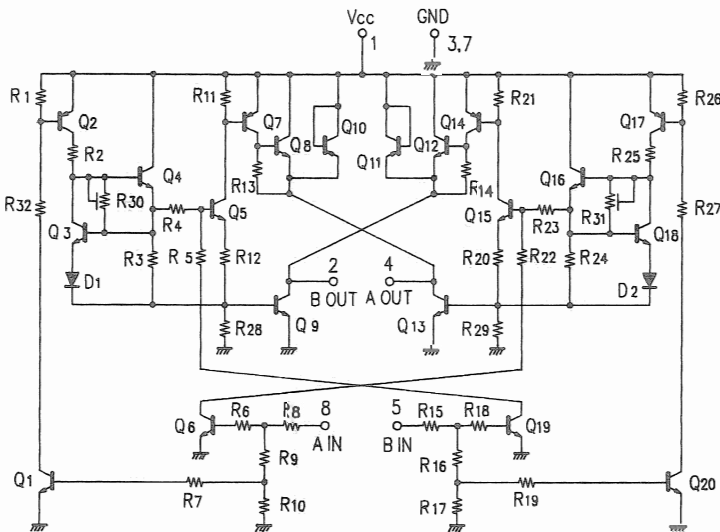
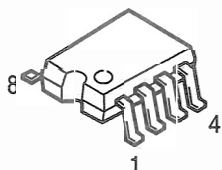
BA15218
(FL: IC565)
(SU: IC102)



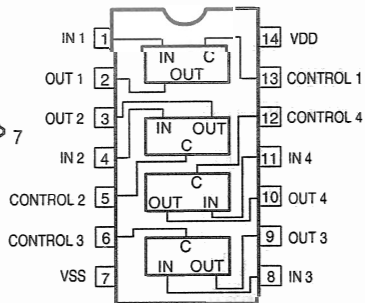
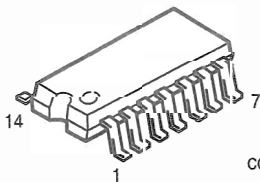
BA4558F (SU: IC101,106,205,302,304,307,308)
BA15218F (SU: IC305)



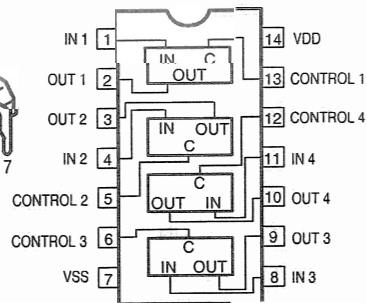
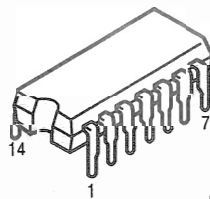
BA6208F (SU: IC306)



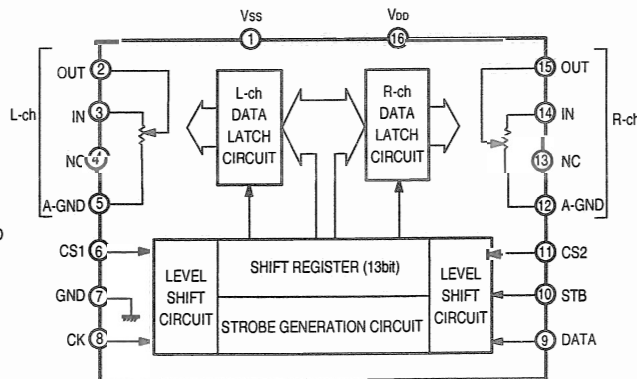
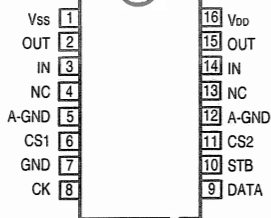
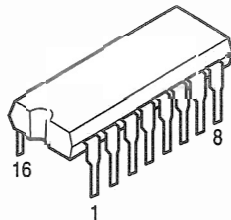
BU4066BCF (SU: IC202)



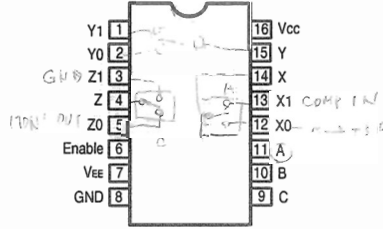
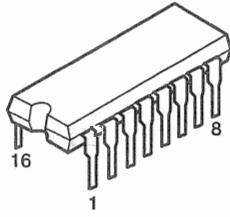
LC4966 (SU: IC213)



TC9299P (SU: IC301, 303)



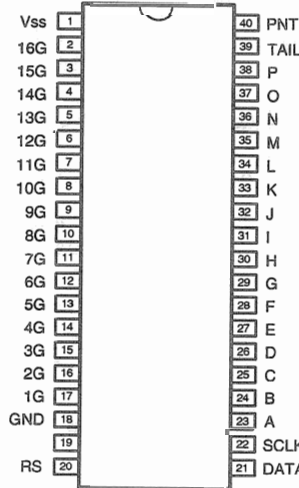
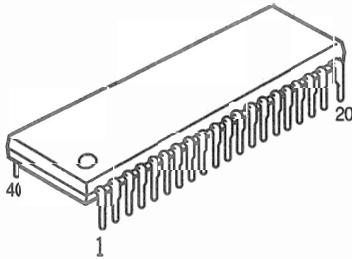
MC74HC4053N (SV: IC903)



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

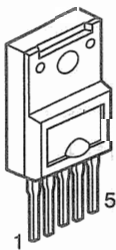
X = Don't Care

MSC1937-03RS (FL: IC751)



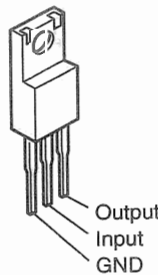
Pin No.	Terminal Function
1	Power Supply (+5V)
3	Digit 1 Output
17	Digit 17 Output
18	GND
19	—
20	POWER-ON-RESET
21	Data Input
22	Shift Clock Input
23	Segment A Output
38	Segment P Output
39	—
40	POINT Output

SI-18752 (FL: IC655,656)



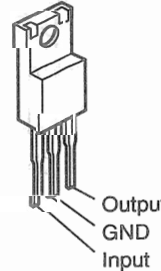
1. +IN
2. IN
3. VEE
4. Output
5. +Vcc

NJM7915FA (FL: IC654)



- Output
Input
GND

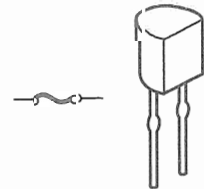
NJM7805FA(S), MCT7805CT (SU: IC203,204)
MC7806CT, MCT7806CT, NJM7806FA(S) (FL: IC601)(SU: IC803)
NJM7806FA(S) (SV: IC806)
NJM7812FA(S) (FL: IC005)
NJM7815FA(S) (FL: IC803)
NJM7820FA(S) (FL: IC653)



- Output
GND
Input

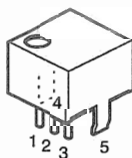
IC PROTECTOR

ICP-N15 (FL: IC004, 602)
ICP-N20 (FL: IC651, 652)

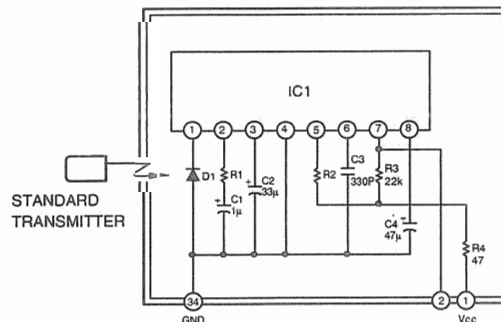


OTHERS

SBX1610-52 (Remote Control Sensor) (FL: IC752)



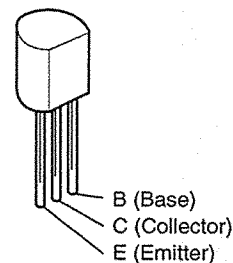
1. Vcc
2. Output
3. GND
4. Case Fin
5. Case Fin



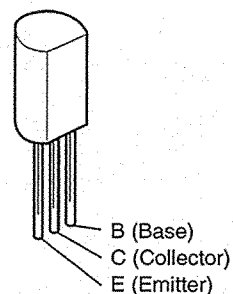
- IC1 : CX20106A Chip
- D1 : PIN Photodiode Chip
- C1, C2, C4 : Aluminum Electrolytic Capacitor
- C3 : SL Characteristic ±5%
- R1 : Gain control resistor
- R2 : fo control resistor (Using ±1%)
- R (Other than above items) : ±5%

● TRANSISTORS

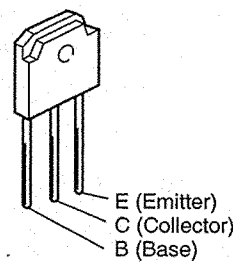
2SA970 (BL)
2SA988 (E/F)
2SA1015 (G/R),(GR/Y)
2SC1815(Y),(BL)
2SC1841 (E/F)
2SC2878 (A/B)



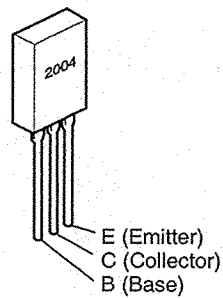
2SB1041 (R)
2SD1292 (R)



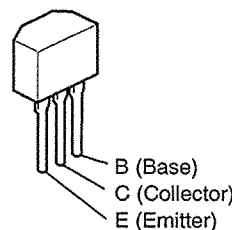
2SA1491 (O/P/Y)(Z)
2SC3855 (O/P/Y)(Z)



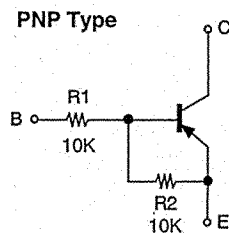
2SB1328 (P)
2SD2004 (P)



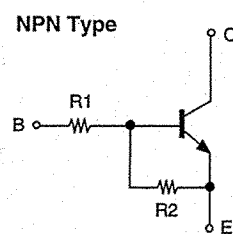
DTA114ES
DTC114ES
DTC144ES



DTA114ES

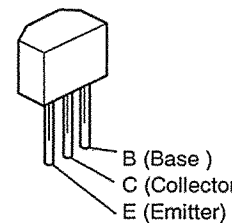


DTC114ES
DTC144ES

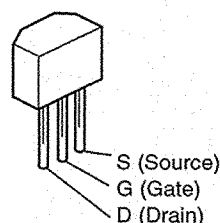


	R1	R2
DTC114ES	10kohm	10kohm
DTC144ES	47kohm	47kohm

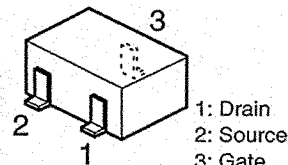
2SC933S (S)
2SC1740S (E)



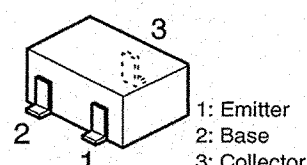
2SK184 (GR)/(BL)



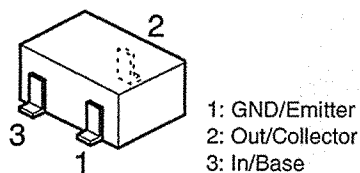
2SK209 (Y/GR)



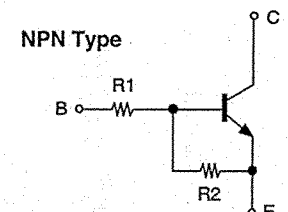
2SC2412K (S)
2SC2712 (Y/GR)
2SC2996 (Y)
2SC3326 (A/B)



DTA114TK
DTA144EK
DTC143TK
DTC144EK
DTC323TK
RN2402

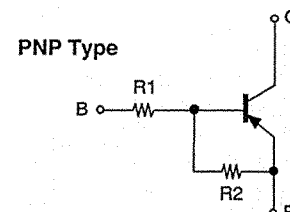


DTC143TK
DTC144EK
DTC323TK



	R1	R2
DTC143TK	4.7kohm	—
DTC144EK	47kohm	47kohm
DTC323TK	2.2kohm	—

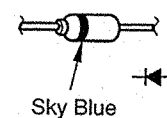
RN2402
DTA114TK
DTA144EK



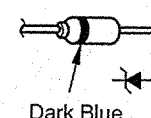
	R1	R2
RN2402	47kohm	47kohm
DTA114TK	10kohm	—
DTA144EK	47kohm	47kohm

● DIODES (included LED)

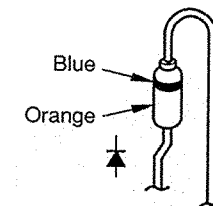
1SS270A
1S2076A



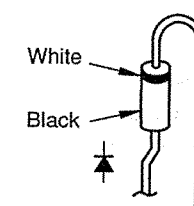
MTZJ3.3A MTZJ8.2A
MTZJ5.1A MTZJ13A
MTZJ7.5A MTZJ18A



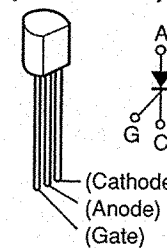
1SR35-200A



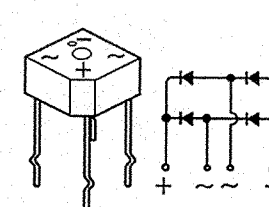
DSM1D2 (Type 3)



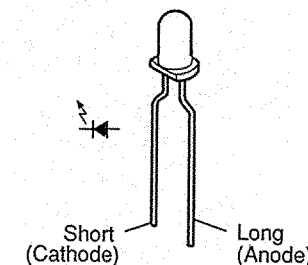
SFOR1A42
(Thyristor)
(MA: SC601)



S4VB20F (FL: D652)
(MA: D615, 616)



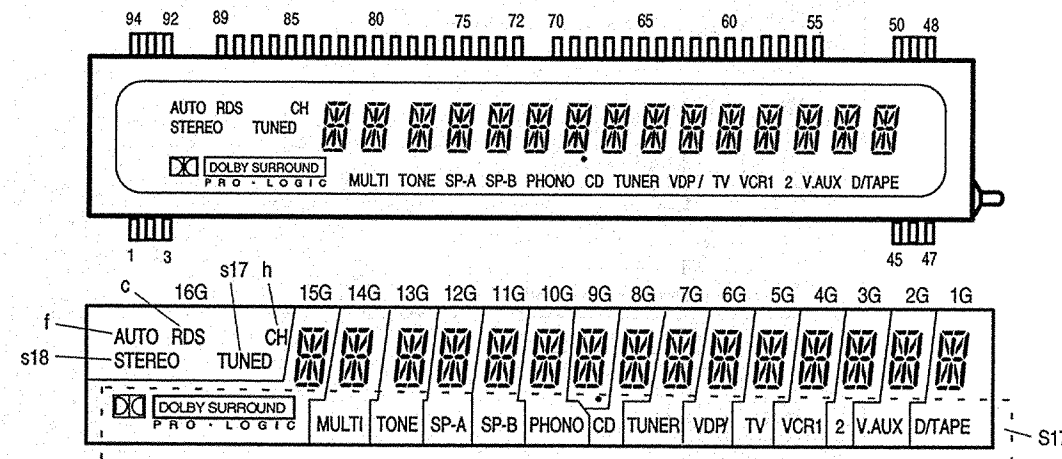
SEL1210S (Red)
(FL: LD751)



● POSISTOR
PTH9M04BB222TS2F333
(FL: P651)



● FL DISPLAY FIP16FM7R (Part No.: 3934156001)(FL751)



UPPER																								
TERMINAL No.	94	93	92	91	90	89	88	87	86	85	84	83	82	81										
ELECTRODE	F1	F1	F1	NP	NP	P	P	P	P	P	P	P	P	P										
TERMINAL No.	80	79	78	77	76	75	74	73	72	71	70	69	68	67										
ELECTRODE	P	P	P	P	P	P	P	P	P	NP	16G	15G	14G	13G										
TERMINAL No.	66	65	64	63	62	61	60	59	58	57	56	55	54	53										
ELECTRODE	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP										
LOWER																								
TERMINAL No.											35	36	37	38	39	40	41	42	43	44	45	46	47	
ELECTRODE											NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	F2	F2	F2
TERMINAL No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
ELECTRODE	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	
TERMINAL No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14										
ELECTRODE	F1	F1	F1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP										

Notes: F: Filament G: Grid A: Anode NP: No Pin

PRINTED WIRING BOARD (Pattern Side)

1 2 3 4 5 6 7 8

1U-2743 MAIN AMP. UNIT ASS'Y

A

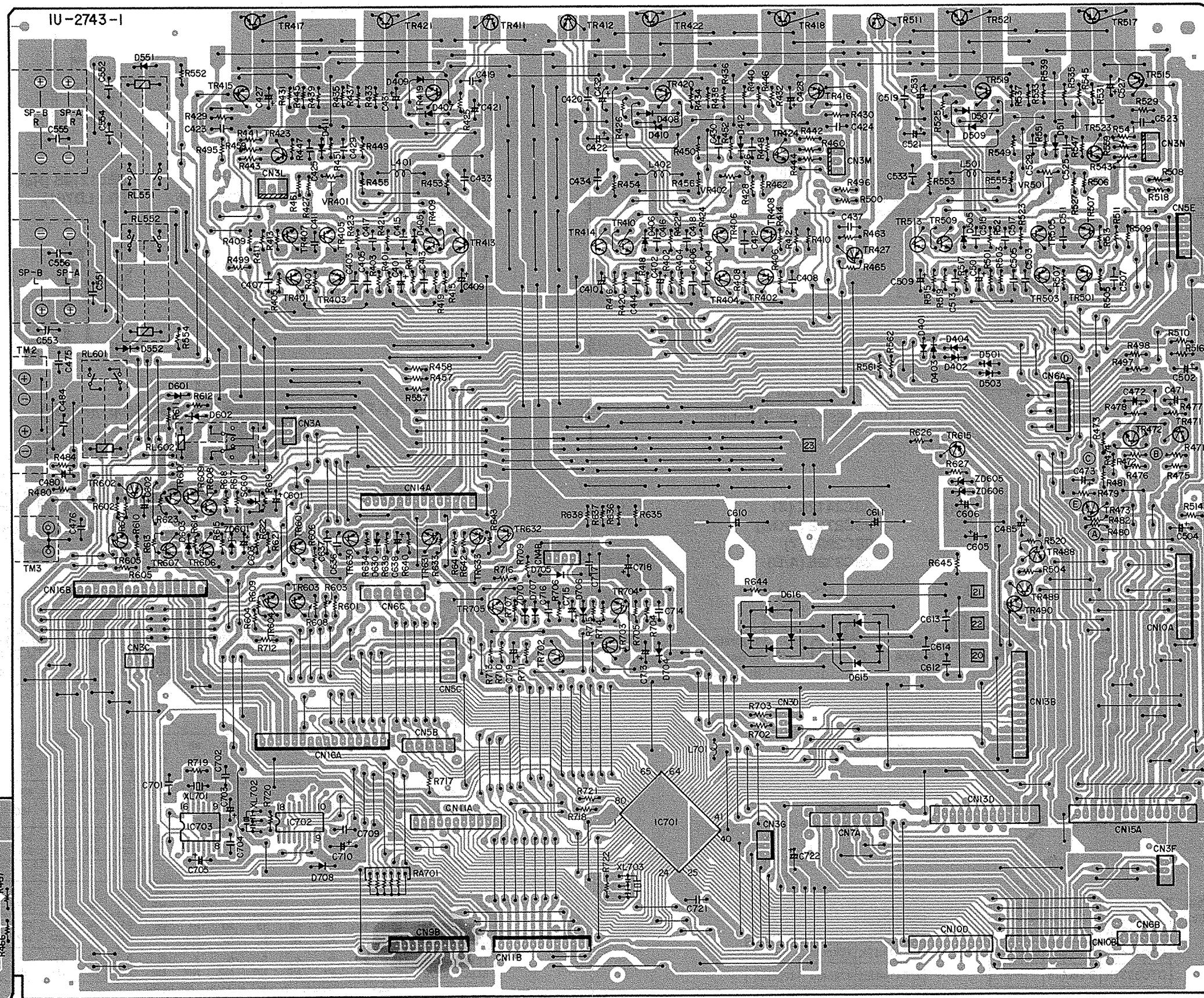
B

C

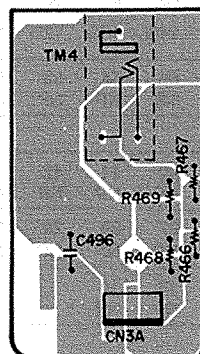
D

E

1U-2743	
1	Main Amp Unit
2	Head Phone Unit



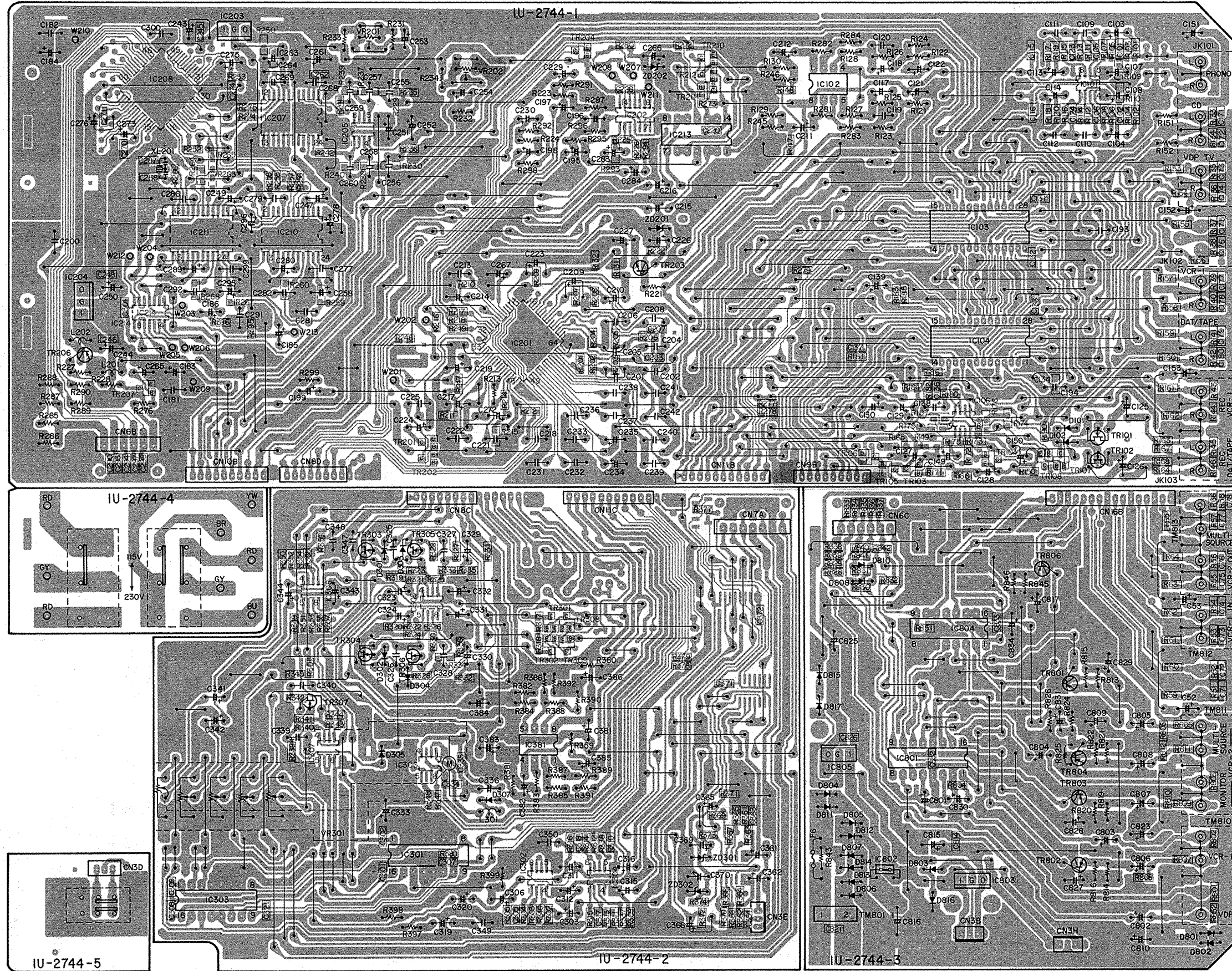
1U-2743-2



1 2 3 4 5 6 7 8

1U-2744 SURROUND UNIT ASS'Y

1U-2744	
1	Surround Unit
2	Volume Unit
3	Video Unit



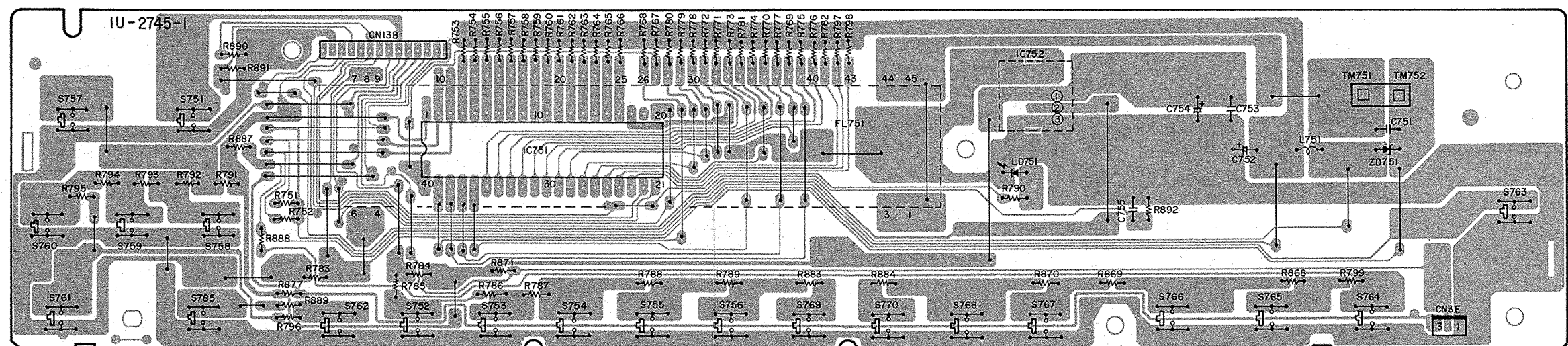
A
B
C
D
E

1 2 3 4 5 6 7 8

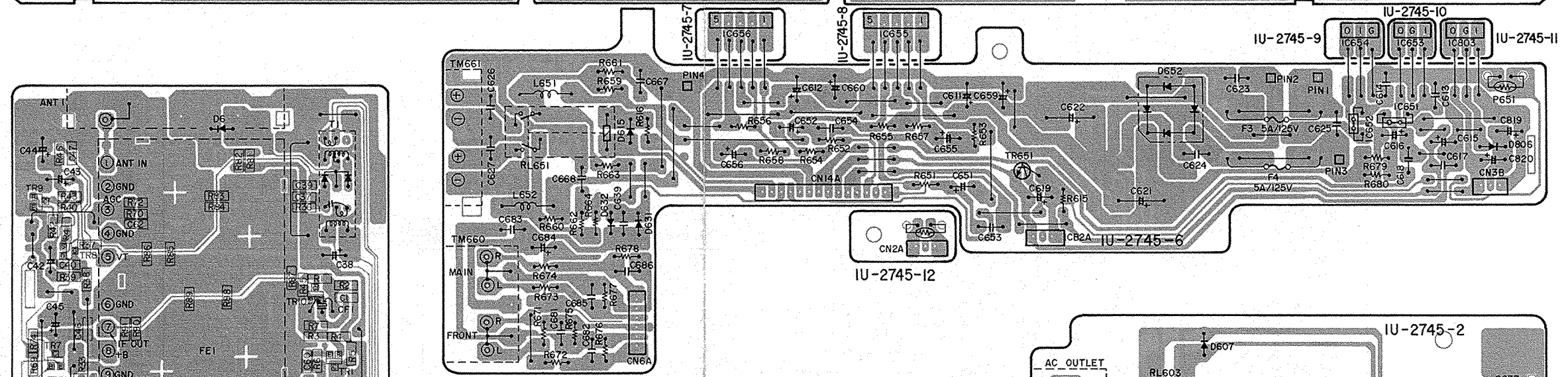
1U-2745 FLD UNIT ASS'Y

A

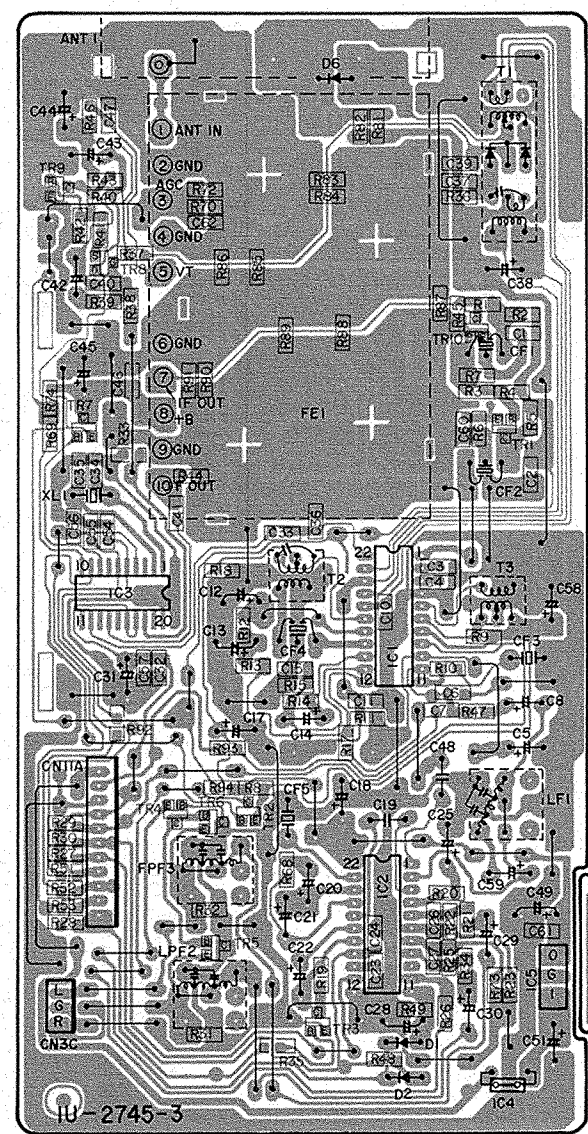
1U-2745	
1	FLD Unit
2	Power Supply Unit
3	Tuner Unit
4	Tact Switch Unit
5	Tone Unit
6	Rear Amp. Unit



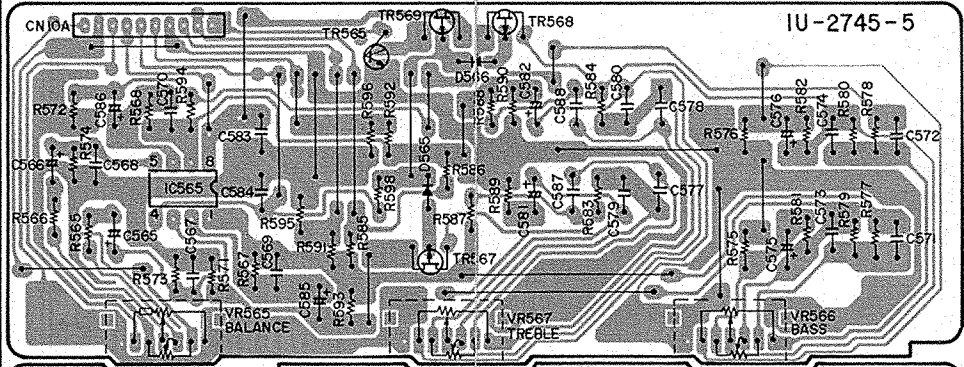
B



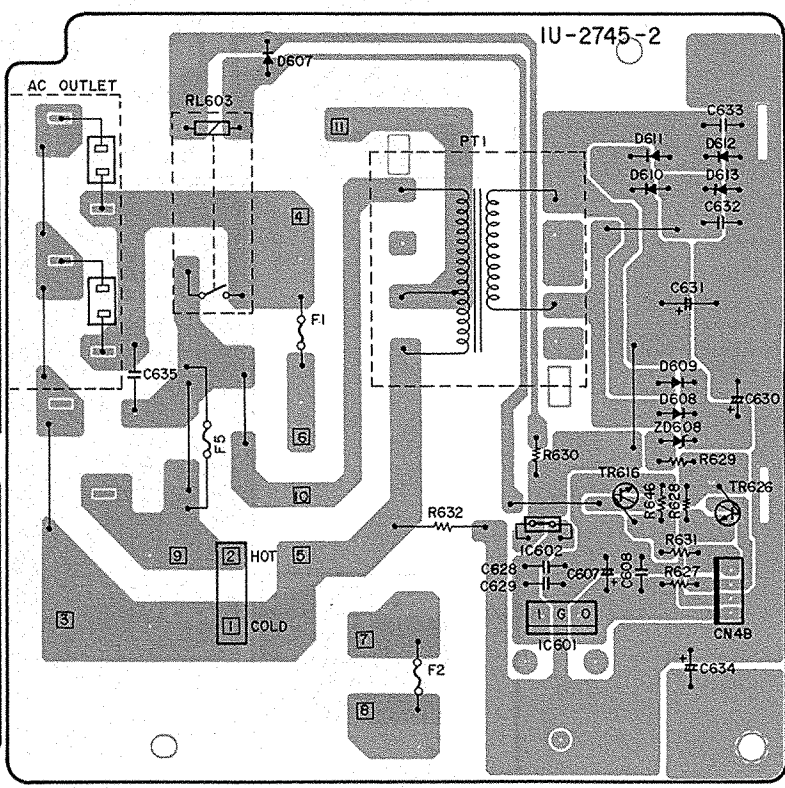
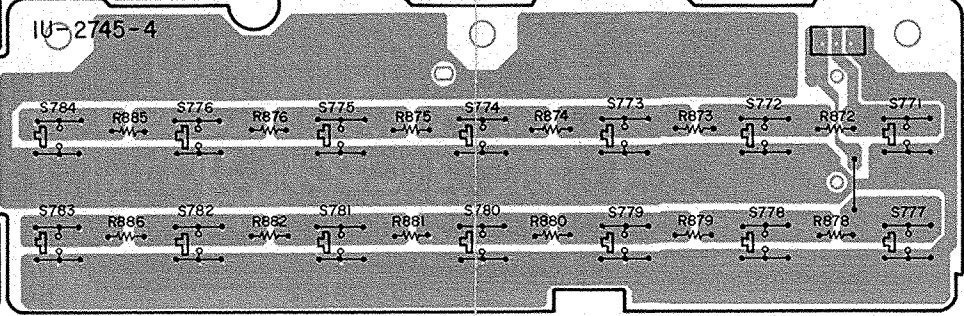
C



D



E



4

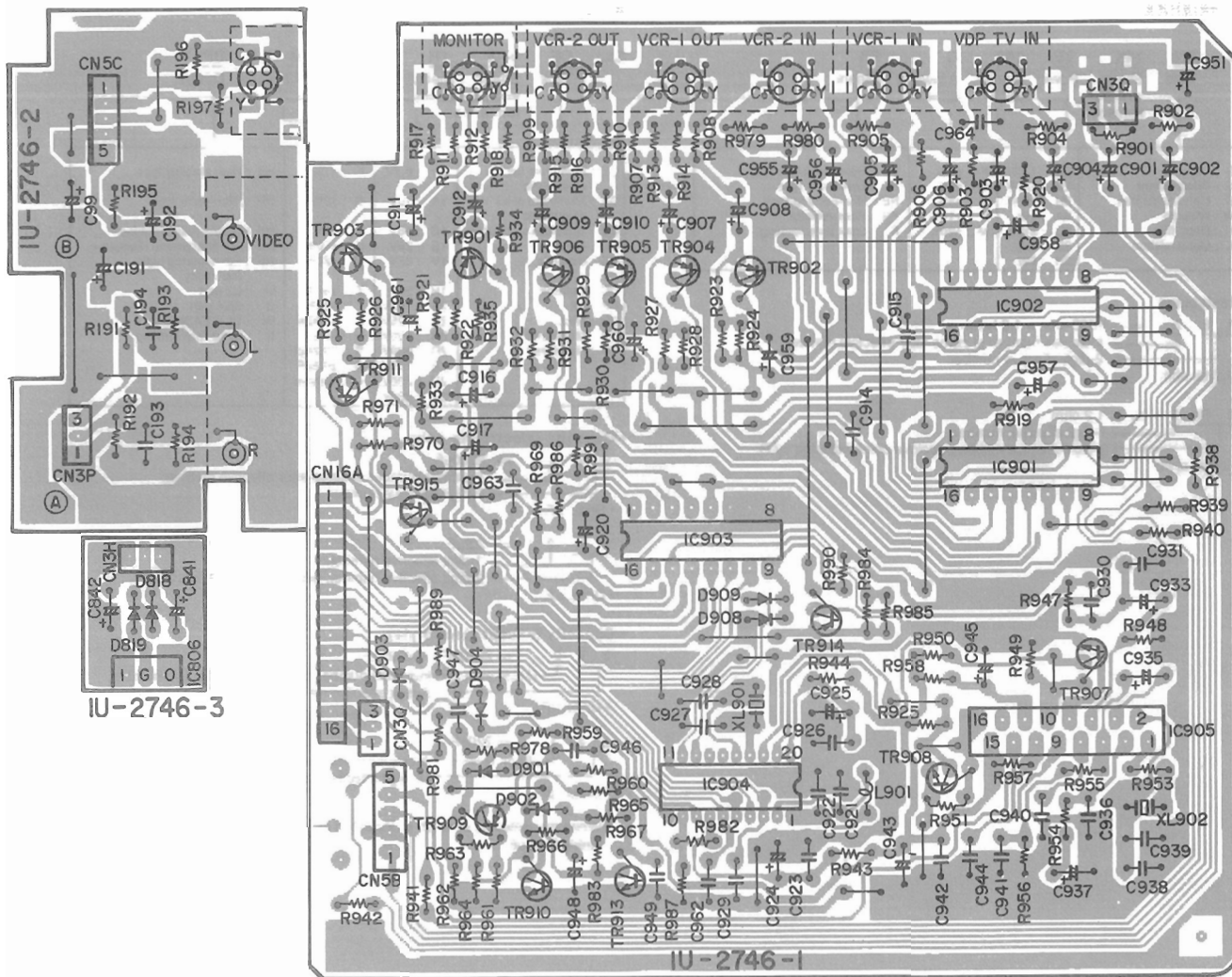
3

2

1

1U-2746 S-VIDEO UNIT ASS'Y

1U-2746	
1	S-Video Unit
2	V-Aux. Unit
3	**** Unit



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 "1" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol  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		2B : 1/8W	F : ±1%		P : Pulse-resistant type
RC	Composition		2E : 1/4W	G : ±2%		NL : Low noise type
RS	Metal oxide film		2H : 1/2W	J : ±5%		NB : Non-burning type
RW	Winding		3A : 1W	K : ±10%		FR : Fuse-resistor
RN	Metal film		3D : 2W	M : ±20%		F : Lead wire forming
RK	Metal mixture		3F : 3W			
			3H : 5W			

* **Resistance**

$\frac{1}{\text{---}} \frac{8}{\text{---}} \frac{2}{\text{---}} \Rightarrow 1800 \text{ ohm} = 1.8 \text{ kohm}$
Indicates number of zeros after effective number.
2-digit effective number.

• Units: ohm

$\frac{1}{\text{---}} \frac{R}{\text{---}} \frac{2}{\text{---}} \Rightarrow 1.2 \text{ ohm}$
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		0J : 6.3V	F : ±1%		HS : High stability type
CA	Aluminum solid electrolytic		1A : 10V	G : ±2%		BP : Non-polar type
CS	Tantalum electrolytic		1C : 16V	J : ±5%		HR : Ripple-resistant type
CO	Film		1E : 25V	K : ±10%		DL : For charge and discharge
CK	Ceramic		1V : 35V	M : ±20%		HF : For assuring high frequency
CC	Ceramic		1H : 50V	Z : +80%		U : UL part
CP	Oil		2A : 100V	-20%		C : CSA part
CM	Mica		2B : 125V	P : +100%		W : UL-CSA type
CF	Metallized		2C : 160V	-0%		F : Lead wire forming
CH	Metallized		2D : 200V	C : ±0.25pF		
			2E : 250V	D : ±0.5pF		
			2H : 500V	= : Others		
			2J : 630V			

* **Capacity (electrolyte only)**

$\frac{2}{\text{---}} \frac{2}{\text{---}} \frac{2}{\text{---}} \Rightarrow 2200\mu\text{F}$
Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF.

$\frac{2}{\text{---}} \frac{R}{\text{---}} \frac{2}{\text{---}} \Rightarrow 2.2\mu\text{F}$
1-digit effective number.
2-digit effective number, decimal point indicated by R.

• Units: μF.

* **Capacity (except electrolyte)**

$\frac{2}{\text{---}} \frac{2}{\text{---}} \frac{2}{\text{---}} \Rightarrow 2200\text{pF} = 0.0022\mu\text{F}$
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF.

$\frac{2}{\text{---}} \frac{2}{\text{---}} \frac{1}{\text{---}} \Rightarrow 220\text{pF}$
(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.

PRINTED WIRING BOARD PARTS LIST

1U-2743 MAIN AMP. UNIT ASS'Y

Ref. No.	Parts No.	Parts Name	Remarks
SEMICONDUCTORS GROUP			
IC701	262 2030 003	IC TMP87CP71F-6206	μ-com
IC702	262 1929 908	IC LC7074M	
IC703	262 1701 906	IC :SAA6579T	
TR401-404	271 0094 919	Transistor 2SA970(BL)	
TR405-410	273 0235 923	Transistor 2SC1841(E/F)	
TR411,412	273 0198 002	Transistor 2SC1815(Y)	
TR413,414	271 0131 924	Transistor 2SA988(E/F)	
TR415,416	272 0107 906	Transistor 2SB1328(P)	
TR419,420	274 0151 000	Transistor 2SD2004(P)	
TR423,424	273 0235 923	Transistor 2SC1841(E/F)	
TR427	271 0131 924	Transistor 2SA988(E/F)	
TR471-473	273 0253 918	Transistor 2SC2878(A/B)	
TR488	269 0020 906	Transistor DTC114ES	Built in Resistor
TR489	269 0046 906	Transistor DTA114ES	Built in Resistor
TR490	269 0020 906	Transistor DTC114ES	Built in Resistor
TR501	271 0094 919	Transistor 2SA970(BL)	
TR503	271 0094 919	Transistor 2SA970(BL)	
TR505	273 0235 923	Transistor 2SC1841(E/F)	
TR507	273 0235 923	Transistor 2SC1841(E/F)	
TR509	273 0235 923	Transistor 2SC1841(E/F)	
TR511	273 0198 002	Transistor 2SC1815(Y)	
TR513	271 0131 924	Transistor 2SA988(E/F)	
TR515	272 0107 906	Transistor 2SB1328(P)	
TR519	274 0151 000	Transistor 2SD2004(P)	
TR523	273 0235 923	Transistor 2SC1841(E/F)	
TR601-606	273 0388 906	Transistor 2SC1740S(E)	
TR607	271 0192 905	Transistor 2SA933S(S)	
TR608	273 0388 906	Transistor 2SC1740S(E)	
TR609	271 0192 905	Transistor 2SA933S(S)	
TR610	273 0388 906	Transistor 2SC1740S(E)	
TR615	272 0131 901	Transistor 2SB1041(R)	
TR630	271 0192 905	Transistor 2SA933S(S)	
TR631	273 0388 906	Transistor 2SC1740S(E)	
TR632,633	271 0131 924	Transistor 2SA988(E/F)	
TR702	269 0046 906	Transistor DTA114ES	Built in Resistor
TR703	269 0040 902	Transistor DTC144ES	Built in Resistor
TR704	273 0388 906	Transistor 2SC1740S(E)	
TR705	269 0020 906	Transistor DTC114ES	Built in Resistor
D401-406	276 0432 903	Diode 1SS270A	
D407-410	276 0049 914	Diode 1S2076A	
D411,412	276 0432 903	Diode 1SS270A	
D501	276 0432 903	Diode 1SS270A	
D503	276 0432 903	Diode 1SS270A	
D505	276 0432 903	Diode 1SS270A	
D507	276 0049 914	Diode 1S2076A	
D509	276 0049 914	Diode 1S2076A	
D511	276 0432 903	Diode 1SS270A	
D551,552	276 0432 903	Diode 1SS270A	
D601-603	276 0432 903	Diode 1SS270A	
D615,616	276 0338 007	Diode S4VB20F	Bridge
D630	276 0432 903	Diode 1SS270A	
D704	276 0432 903	Diode 1SS270A	
D705	276 0049 914	Diode 1S2076A	
D706-708	276 0432 903	Diode 1SS270A	

Ref. No.	Parts No.	Parts Name	Remarks
ZD601	276 0644 911	Zener Diode MTZJ7.5A	7.5V
ZD605,606	276 0645 907	Zener Diode MTZJ18A	18V
ZD701	276 0634 905	Zener Diode MTZJ3.3A	3.3V
SC601	279 0016 904	Thyristor SF0R1A42	
RESISTORS GROUP (Not included Carbon Film ±5%, 1/4 W Type.)			
△ R409-412	241 2380 963	Carbon Film 2.2kohm 1/4W(NB)	RD14B2E222.JNBS
△ R413,414	241 2315 967	Fusible 68ohm 1/4W(FR)	RD14B2E680GFRRS
△ R421-424	241 2377 976	Carbon Film 130ohm 1/4W(NB)	RD14B2E131.JNBS
△ R431,432	241 2378 926	Carbon Film 220ohm 1/4W(NB)	RD14B2E221.JNBS
△ R433-440	244 2043 982	Metal Oxide 0.22ohm 1W	RS14B3AR22.JNBS(S)
△ R445-448	241 2380 956	Carbon Film 2kohm 1/4W(NB)	RD14B2E202.JNBS
△ R449,450	244 2051 987	Metal Oxide 4.7ohm 1W	RS14B3A4R7.JNBS(S)
△ R453,454	244 2051 987	Metal Oxide 4.7ohm 1W	RS14B3A4R7.JNBS(S)
△ R466-469	244 2051 958	Metal Oxide 220ohm 1W	RS14B3A221.JNBS(S)
△ R509	241 2380 963	Carbon Film 2.2kohm 1/4W(NB)	RD14B2E222.JNBS
△ R511	241 2380 963	Carbon Film 2.2kohm 1/4W(NB)	RD14B2E222.JNBS
△ R513	241 2315 967	Fusible 68ohm 1/4W(FR)	RD14B2E680GFRRS
△ R521	241 2377 976	Carbon Film 130ohm 1/4W(NB)	RD14B2E131.JNBS
△ R523	241 2377 976	Carbon Film 130ohm 1/4W(NB)	RD14B2E131.JNBS
△ R531	241 2378 926	Carbon Film 220ohm 1/4W(NB)	RD14B2E221.JNBS
△ R533	244 2043 982	Metal Oxide 0.22ohm 1W	RS14B3AR22.JNBS(S)
△ R535	244 2043 982	Metal Oxide 0.22ohm 1W	RS14B3AR22.JNBS(S)
△ R537	244 2043 982	Metal Oxide 0.22ohm 1W	RS14B3AR22.JNBS(S)
△ R539	244 2043 982	Metal Oxide 0.22ohm 1W	RS14B3AR22.JNBS(S)
△ R545	241 2380 956	Carbon Film 2kohm 1/4W(NB)	RD14B2E202.JNBS
△ R547	241 2380 956	Carbon Film 2kohm 1/4W(NB)	RD14B2E202.JNBS
△ R549	244 2051 987	Metal Oxide 4.7ohm 1W	RS14B3A4R7.JNBS(S)
△ R552	241 2378 926	Carbon Film 220ohm 1/4W(NB)	RD14B2E221.JNBS
△ R553	244 2051 987	Metal Oxide 4.7ohm 1W	RS14B3A4R7.JNBS(S)
△ R554	241 2378 926	Carbon Film 220ohm 1/4W(NB)	RD14B2E221.JNBS
△ R611	241 2378 926	Carbon Film 220ohm 1/4W(NB)	RD14B2E221.JNBS
△ R612	244 2055 996	Metal Oxide 1.2kohm 1W	RS14B3A122.JNBS(S)
△ R621	244 2043 946	Metal Oxide 2.2kohm 1W	RS14B3A222.JNBS(S)
△ R626	241 2376 964	Carbon Film 47ohm 1/4W(NB)	RD14B2E470.JNBS
△ R635-638	244 2043 982	Metal Oxide 0.22ohm 1W	RS14B3AR22.JNBS(S)
△ R709	241 2387 940	Carbon Film 4.7ohm 1/4W(NB)	RD14B2E4R7.JNBS
VR401,402	211 6093 912	Semi Fixed Resistor 4.7kohm	
VR501	211 6093 912	Semi Fixed Resistor 4.7kohm	
RA701	246 2053 033	Resistor Array 4.7kohm x 5	RK99==472JP5
CAPACITORS GROUP			
C401,402	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M
C403,404	253 1179 945	Ceramic Cap. 220pF/50V	CK45B1H221K
C405,406	253 1179 987	Ceramic Cap. 470pF/50V	CK45B1H471K
C407,408	255 1264 966	Mylar Film 0.0033μF/50V	CQ93M1H332J(B)
C409,410	254 4256 949	Electrolytic 100μF/25V	CE04W1E101M
C411,412	253 4474 906	Ceramic Cap. 15pF/500V	CC45SL2H150J
C413,414	253 4536 941	Ceramic Cap. 15pF/50V	CC45SL1H150J
C415,416	255 1265 936	Mylar Film 0.01μF/50V	CQ93M1H103J(B)
C417,418	255 1264 940	Mylar Film 0.0022μF/50V	CQ93M1H222J(B)
C419,420	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z
C421,422	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M

Ref. No.	Parts No.	Parts Name	Remarks	Ref. No.	Q'ty	Remarks	Q'ty
C423,424	253 1128 909	Ceramic Cap. 220pF/500V	CK45B2H221K	OTHER			
C425,426	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z			(P.W.Board)	(1s)
C427,428	254 4262 917	Electrolytic 10μF/63V	CE04W1J100M	L401,402	235 0068 004	Inductor 1μH	2
C429,430	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K	L501	235 0068 004	Inductor 1μH	1
C431,432	254 4262 917	Electrolytic 10μF/63V	CE04W1J100M	L701	235 0060 989	Inductor 120μH	1
C433,434	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K	RL551,552	214 9003 005	Relay	2
C437	255 1265 936	Mylar Film 0.01μF/50V	CQ93M1H103J(B)	RL601	214 0167 005	Relay(G5Z-2A)	1
C471-473	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M	RL602	214 0127 003	Relay(RY-12W)	1
C475,476	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z	XL701	399 0178 007	Crystal 4.332 MHz	1
C480	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M	XL702,703	399 0191 903	Ceramic Resonator	CST4.00MGW 1
C496	253 9039 906	BC Ceramic Cap. 0.1μF/25V	CK45=1E104Z				
C501	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M				
C502	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M				
C503	253 1179 945	Ceramic Cap. 220pF/50V	CK45B1H221K				
C504	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M				
C505	253 1179 987	Ceramic Cap. 470pF/50V	CK45B1H471K		205 0472 013	8 P SP Terminal	1
C507	255 1264 966	Mylar Film 0.0033μF/50V	CQ93M1H332J(B)		204 8354 004	Headphone Jack	1
C509	254 4256 949	Electrolytic 100μF/25V	CE04W1E101M		205 0592 003	4 P Push Terminal	1
C511	253 4474 906	Ceramic Cap. 15pF/500V	CC45SL2H150J		205 0315 002	2 P Connector Base	1
C513	253 4536 941	Ceramic Cap. 15pF/50V	CC45SL1H150J	CN3L,M,N	205 0190 036	3 P NH Conn. Base	3
C515	255 1265 936	Mylar Film 0.01μF/50V	CQ93M1H103J(B)	CN5B	205 0696 051	JL Connector (BT-E)	1
C517	255 1264 940	Mylar Film 0.0022μF/50V	CQ93M1H222J(B)	CN6B,C	205 0696 064	JL Connector (BT-E)	2
C519	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z	CN7A	205 0696 077	JL Connector (BT-E)	1
C521	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M	CN8C,D	205 0535 002	8 P Conn. Base	2
C523	253 1128 909	Ceramic Cap. 220pF/500V	CK45B2H221K	CN9B	205 0535 015	9 P Conn. Base	1
C525	255 1265 936	Mylar Film 0.01μF/50V	CQ93M1H103J(B)	CN10B	205 0535 057	10 P Conn. Base	1
C527	254 4262 917	Electrolytic 10μF/63V	CE04W1J100M	CN11B,C	205 0535 099	11 P Conn. Base	2
C529	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K	CN16A,B	205 0772 001	16 P Conn. Base (9110B)	2
C531	254 4262 917	Electrolytic 10μF/63V	CE04W1J100M				
C533	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K	CN3A,F	205 0343 032	3 P Conn. Base (KR-PH)	2
C555,556	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z	CN6A	205 0343 061	6 P Conn. Base (KR-PH)	1
C601	254 4260 993	Electrolytic 22μF/50V	CE04W1H220M	CN10A	205 0375 000	10 P Conn. Base (KR-PH)	1
C602	254 4250 945	Electrolytic 330μF/6.3V	CE04W0J331M	CN13B	205 0375 039	13 P Conn. Base (KR-PH)	1
C603	254 4261 905	Electrolytic 33μF/50V	CE04W1H330M	CN14A	205 0375 042	14 P Conn. Base (KR-PH)	1
C605	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M	CN3C	203 5012 032	3 P SAN-PH Conn. Cord	L=280 1
C606	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M	CN5C	203 8368 013	5 P PH-SAN Conn. Cord	L=300 1
C610,611	254 4362 707	Electrolytic 10000μF/63V	CE04W1J103MC(DL)	CN11A	204 6469 014	11 P PH-SAN Conn. Cord	L=280 1
C612,613	253 1151 905	Ceramic Cap. 4700pF/500V	CK45B2H472P	CN3A	203 5012 045	3 P SAN-PH Conn. Cord	L=560 1
C614	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K	CN4B	203 6458 006	4 P PH-SAN Conn. Cord	L=470 1
C636,637	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z				
C638	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M		203 0526 073	1 P Contact Ass'y	L=80 Black 1
C701,702	253 4537 908	Ceramic Cap. 27pF/50V	CC45SL1H270J		415 0309 071	PVC Tube (L=10)	6
C703	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M				
C704	253 1179 990	Ceramic Cap. 560pF/50V	CK45B1H561K				
C705	254 4260 951	Electrolytic 2.2μF/50V	CE04W1H2R2M				
C709	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z				
C710	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M				
C713	254 4250 932	Electrolytic 220μF/6.3V	CE04W0J221M				
C714	256 1034 982	Metalized 0.12μF/50V	CF93A1H124J				
C715	254 4258 905	Electrolytic 4.7μF/35V	CE04W1V4R7M				
C716,717	253 1181 904	Ceramic Cap. 0.01μF/50V	CK45F1H103Z				
C718	254 4250 783	Electrolytic 3300μF/6.3V	CE68W0J332MC				
C719	254 4260 906	Electrolytic 0.1μF/50V	CE04W1H0R1M				
C721	253 1146 907	Ceramic Cap. 0.01μF/50V	CK45F1H103Z				
C722	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M				

1U-2744 SURROUND UNIT ASS'Y

Ref. No.	Parts No.	Parts Name	Remarks	Ref. No.	Parts No.	Parts Name	Remarks
SEMICONDUCTORS GROUP				RESISTORS GROUP (Not included Carbon Film $\pm 5\%$, 1/4 W T/pe.)			
IC101	263 0672 903	IC BA4558F		R053-058	247 0015 966	Chip Carbon 2.7Mohm 1/10W	RM73B--275J
IC102	263 0565 007	IC BA15218		R061-066	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B--471J
IC103	262 2034 009	IC TC9273N-007		R099	247 0013 900	Chip Carbon 220kohm 1/10W	RM73B--224J
IC104	262 2033 000	IC TC9273N-004					
IC106	263 0672 903	IC BA4558F		R100	247 0013 900	Chip Carbon 220kohm 1/10W	RM73B--224J
IC201	263 0938 003	IC DDSC-A		R101,102	247 0006 946	Chip Carbon 390ohm 1/10W	RM73B--391J
IC202	262 1875 900	IC BU4066BCF		R103,104	247 0012 969	Chip Carbon 150kohm 1/10W	RM73B--154J
IC203,204	263 0809 006	IC NJM7805 FA(S)	Regulator +5V	R105,106	247 0011 986	Chip Carbon 68kohm 1/10W	RM73B--683J
or		IC MCT7805CT		R107,108	247 0004 922	Chip Carbon 470ohm 1/10W	RM73B--470J
IC205	263 0672 903	IC BA4558F		R109,110	247 0007 945	Chip Carbon 1kohm 1/10W	RM73B--102J
IC207	262 2032 904	IC LC7886MN-TRM		R111,112	247 0014 909	Chip Carbon 56kohm 1/10W	RM73B--564J
IC208	262 2025 102	IC DDSC-D		R113,114	247 0011 944	Chip Carbon 470ohm 1/10V	RM73B--473J
IC210,211	262 1824 906	IC LC78835M		R115,116	247 0003 949	Chip Carbon 22ohm 1/10W	RM73B--220J
IC213	263 0359 006	IC LC4966		R117,118	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
				R119,120	247 0013 984	Chip Carbon 470kohm 1/10W	RM73B--474J
IC301	262 2031 002	IC TC9299P		R133-136	247 0015 966	Chip Carbon 2.7Mohm 1/10W	RM73B--275J
IC302	263 0672 903	IC BA4558F		R139-146	247 0015 966	Chip Carbon 2.7Mohm 1/10W	RM73B--275J
IC303	262 2031 002	IC TC9299P		R147,148	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
IC304	263 0672 903	IC BA4558F		R149,150	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B--104J
IC305	263 0615 902	IC BA15218F		R153,154	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B--471J
IC306	263 0905 900	IC BA6208F		R157-164	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B--471J
IC307,308	263 0672 903	IC BA4558F		R165-168	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B--104J
				R171,172	247 0009 901	Chip Carbon 4.7kohm 1/10W	RM73B--472J
IC801	263 0856 004	IC BA7625		R173,174	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
IC803	263 0648 005	IC :MC7806CT	Regulator +6V	R175,176	247 0007 945	Chip Carbon 1kohm 1/10W	RM73B--102J
or	263 0793 002	NJM7806FA(S)		R179,180	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
		MCT7806CT		R181-184	247 0012 998	Chip Carbon 24kohm 1/10W	RM73B--204J
IC804	262 0522 005	IC TC4053BP		R185,186	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
				R187	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
				R190	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
TR101,102	275 0061 902	FET 2SK184(GR)(BL)		R201	247 0009 956	Chip Carbon 7.5kohm 1/10W	RM73B--751J
TR103,104	273 0348 904	Transistor 2SC3326 A/B		R202	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
TR105	269 0055 900	Transistor DTA144EK	Built in Resistor	R203	247 0010 929	Chip Carbon 15kohm 1/10W	RM73B--153J
TR106	269 0091 906	Transistor DTC143TK	Built in Resistor	R204	247 0009 956	Chip Carbon 7.5kohm 1/10W	RM73B--751J
TR107	269 0055 900	Transistor DTA144EK	Built in Resistor	R205	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
TR108	269 0091 906	Transistor DTC143TK	Built in Resistor	R206	247 0010 929	Chip Carbon 15kohm 1/10W	RM73B--153J
				R207	247 0016 923	Chip Carbon 4.7kohm 1/10W	RM73B--475J
TR201,202	269 0054 901	Transistor DTC144EK	Built in Resistor	R208,209	247 0011 960	Chip Carbon 56kohm 1/10W	RM73B--563J
TR203	274 0169 908	Transistor 2SD1292(R)		R210	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B--104J
TR204	269 0055 900	Transistor DTA144EK	Built in Resistor	R211	247 0019 988	Chip Carbon 100kohm 1/10W	RM73B--104F($\pm 1\%$)
TR206	272 0131 901	Transistor 2SB1041(R)		R217,218	247 0008 999	Chip Carbon 4.3kohm 1/10W	RM73B--432J
TR207	273 0384 900	Transistor 2SC2412K(S)		R222	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B--471J
TR210,211	269 0054 901	Transistor DTC144EK	Built in Resistor	R225,226	247 0009 930	Chip Carbon 6.2kohm 1/10W	RM73B--622J
TR212	269 0055 900	Transistor DTA144EK	Built in Resistor	R229,230	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
				R235,236	247 0013 984	Chip Carbon 470kohm 1/10W	RM73B--474J
TR301,302	269 0055 900	Transistor DTA144EK	Built in Resistor	R237-240	247 0008 928	Chip Carbon 2.2kohm 1/10W	RM73B--222J
TR303-307	275 0061 902	FET 2SK184(GR)(BL)		R241,242	247 0004 922	Chip Carbon 47ohm 1/10W	RM73B--470J
TR308,309	269 0054 901	Transistor DTC144EK	Built in Resistor	R247-249	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
				R252	247 0007 916	Chip Carbon 750ohm 1/10W	RM73B--751J
TR801-804	271 0102 924	Transistor 2SA1015(GR)		R253	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
TR806	271 0102 924	Transistor 2SA1015(GR)		R255-257	247 0007 916	Chip Carbon 750ohm 1/10W	RM73B--751J
				R258	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B--101J
D101,102	276 0432 903	Diode 1SS270A		R259,260	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B--471J
D301-305	276 0432 903	Diode 1SS270A		R263-265	247 0007 916	Chip Carbon 750ohm 1/10W	RM73B--751J
D307	276 0432 903	Diode 1SS270A		R266	247 0014 967	Chip Carbon 1Mohm 1/10W	RM73B--105J
				R267,268	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B--471J
D801-803	276 0432 903	Diode 1SS270A		R271	247 0007 987	Chip Carbon 1.5kohm 1/10W	RM73B--152J
D804-807	276 0548 910	Diode DSM1D2		R273	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
				R274,275	247 0007 916	Chip Carbon 750ohm 1/10W	RM73B--751J
ZD201	276 0644 979	Zener Diode MTZJ13A	13V	R277-279	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B--103J
ZD202	276 0644 911	Zener Diode MTZJ7.5A	7.5V	R280	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
				R293,294	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B--473J
				R301	247 0007 945	Chip Carbon 1kohm 1/10W	RM73B--102J

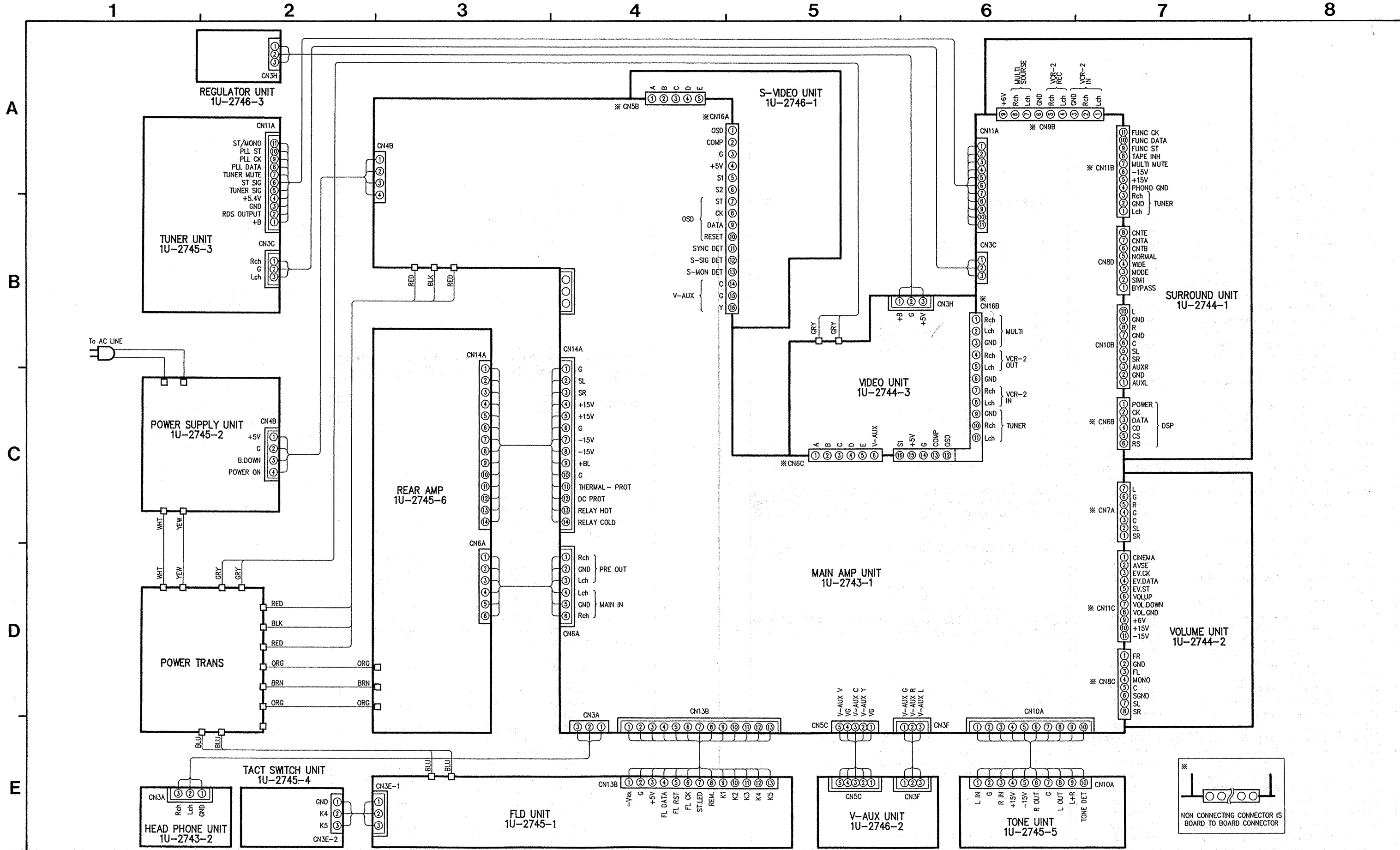
Ref. No.	Parts No.	Parts Name	Remarks	Ref. No.	Parts No.	Parts Name	Remarks
R303	247 0007 945	Chip Carbon 1kohm 1/10W	RM73B-102J	C125-128	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R304	247 0008 928	Chip Carbon 2.2kohm 1/10W	RM73B-222J	C129,130	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R305	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C131-134	257 0012 982	Chip Ceramic 0.022µF/50V	CK73F1H223Z
R311,312	247 0007 945	Chip Carbon 1kohm 1/10W	RM73B-102J	C136,137	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221J
R313,314	247 0009 972	Chip Carbon 9.1kohm 1/10W	RM73B-912J	C138,139	254 4260 951	Electrolytic 2.2µF/50V	CE04W1H2R2M
R315,316	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B-471J	C149,150	254 4254 909	Electrolytic 10µF/16V	CE04E1C100M
R317,318	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C151-153	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R319,320	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	C185,186	254 4260 919	Electrolytic 0.22µF/50V	CE04W1HR22M
R321,322	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C195,196	254 4254 909	Electrolytic 10µF/16V	CE04E1C100M
R323,324	247 0008 928	Chip Carbon 2.2kohm 1/10W	RM73B-222J	C197,198	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R325,326	247 0010 929	Chip Carbon 15kohm 1/10W	RM73B-153J	C199	254 4254 909	Electrolytic 10µF/16V	CE04E1C100M
R327,328	247 0008 944	Chip Carbon 2.7kohm 1/10W	RM73B-272J	C201,202	256 1034 979	Metalized 0.1µF/50V	CF93A1H104J
R329,330	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C203	257 0006 969	Chip Ceramic 680pF/50V	CC73SL1H681J
R331,332	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	C204	256 1034 937	Metalized 0.047µF/50V	CF93A1H473J
R333-336	247 0007 945	Chip Carbon 1kohm 1/10W	RM73B-102J	C205,206	256 1034 979	Metalized 0.1µF/50V	CF93A1H104J
R337,338	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C207	257 0006 969	Chip Ceramic 680pF/50V	CC73SL1H681J
R339	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	C208	256 1034 937	Metalized 0.047µF/50V	CF93A1H473J
R340	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C209	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
R341	247 0008 928	Chip Carbon 2.2kohm 1/10W	RM73B-222J	C210-212	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R342,343	247 0010 916	Chip Carbon 13kohm 1/10W	RM73B-133J	C213	255 1264 982	Plastic Film 0.0047µF/50V	CQ93M1H472J(B)
R344	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C214	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
R345	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	C215,216	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R346	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C217	254 4250 958	Electrolytic 470µF/6.3V	CE04W0J471M
R347,348	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C219	254 4254 941	Electrolytic 100µF/16V	CE04W1C101M
R349,350	247 0013 984	Chip Carbon 470kohm 1/10W	RM73B-474J	C220	257 0012 966	Chip Ceramic 0.01µF/50V	CK73FiH103Z
R351,352	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	C223,224	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R353,354	247 0008 928	Chip Carbon 2.2kohm 1/10W	RM73B-222J	C225	256 1035 910	Metalized 0.22µF/50V	CF93A1H224J
R355	247 0010 929	Chip Carbon 15kohm 1/10W	RM73B-153J	C226	254 4256 907	Electrolytic 10µF/25V	CE04W1E100M
R356,357	247 0006 962	Chip Carbon 470ohm 1/10W	RM73B-471J	C227	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
R358	247 0010 929	Chip Carbon 15kohm 1/10W	RM73B-153J	C228	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
R378-380	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C229,230	254 4260 906	Electrolytic 0.1µF/50V	CE04W1H0R1M
R395,396	247 0011 944	Chip Carbon 47kohm 1/10W	RM73B-473J	C231-233	256 1035 910	Metalized 0.22µF/50V	CF93A1H224J
R802-804	247 0004 977	Chip Carbon 75ohm 1/10W	RM73B-750J	C234,235	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
R805	247 0004 964	Chip Carbon 68ohm 1/10W	RM73B-680J	C236	256 1035 910	Metalized 0.22µF/50V	CF93A1H224J
R806	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C237-240	256 1034 979	Metalized 0.1µF/50V	CF93A1H104J
R807	247 0004 964	Chip Carbon 68ohm 1/10W	RM73B-680J	C241,242	255 1265 978	Plastic Film 0.022µF/50V	CQ93M1H223J(B)
R808	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C243,244	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R809	247 0004 964	Chip Carbon 68ohm 1/10W	RM73B-680J	C245,246	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
R810	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C247	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R811	247 0004 964	Chip Carbon 68ohm 1/10W	RM73B-680J	C248	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
R812	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C249-252	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R828-832	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	C253,254	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R833-837	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	C255,256	255 1265 936	Plastic Film 0.01µF/50V	CQ93M1H103J(B)
R852	247 0004 977	Chip Carbon 75ohm 1/10W	RM73B-750J	C257,258	255 1264 924	Plastic Film 0.0015µF/50V	CQ93M1H152J(B)
R221	241 2375 907	Carbon Film 10ohm 1/4W(NB)	RD14B2E100JNBS	C259,260	255 1265 981	Plastic Film 0.027µF/50V	CQ93M1H273J(B)
VR202	211 6095 978	Semi Fixed Resistor 100ohm		C261	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
VR301	211 0637 002	Variable Resistor 100kohm		C262,263	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J
CAPACITORS GROUP				C264	254 4250 958	Electrolytic 470µF/6.3V	CE04W0J471M
C052,053	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M	C265,266	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C101,102	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221J	C267	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C103,104	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M	C268,269	253 1179 903	Ceramic Cap. 100pF/50V	CK45B1H101K
C105,106	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J	C270,271	257 0014 935	Chip Ceramic 0.1µF/25V	CK73F1E104Z
C107,108	254 4250 932	Electrolytic 220µF/63V	CE04W0J221M	C273	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C109,110	255 4199 999	Plastic Film 0.024µF/50V	CQ92M1H243J(MRZ)	C274	257 0014 935	Chip Ceramic 0.1µF/25V	CK73F1E104Z
C111,112	255 1265 907	Plastic Film 0.0068µF/50V	CQ93M1H682J(B)	C275,276	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C113,114	254 4260 951	Electrolytic 2.2µF/50V	CE04W1H2R2M	C277	253 1179 903	Ceramic Cap. 100pF/50V	CK45B1H101K
C115,116	257 0012 982	Chip Ceramic 0.022µF/50V	CK73F1H223Z	C278	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C117,118	254 4260 951	Electrolytic 2.2µF/50V	CE04W1H2R2M	C279	253 9039 906	BC Ceramic 0.1µF/25V	CK45-1E104Z
C119,120	253 1179 945	Ceramic Cap. 220pF/50V	CK45B1H221K	C280	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C121,122	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M	C281,282	255 1265 994	Plastic Film 0.033µF/50V	CQ93M1H333J(B)
				C283,284	254 4260 919	Electrolytic 0.22µF/50V	CE04W1HR22M
				C285	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
				C286	253 9039 906	BC Ceramic 0.1µF/25V	CK45-1E104Z

Ref. No.	Parts No.	Parts Name	Remarks	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C289	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M	CN8C,D	205 0536 001	8 P Conn. Socket		2
C291,292	255 1265 952	Plastic Film 0.015μF/50V	CQ93M1H153J(B)	CN9R	205 0536 014	9 P Conn. Socket		1
C295	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M	CN10B	205 0536 056	10 P Conn. Socket		1
C296	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M	CN11B,11C	205 0536 098	11 P Conn. Socket		2
C299	253 1179 903	Ceramic Cap. 100pF/50V	CK45B1H101K	CN16B	205 0773 000	16 P Conn. Base-L(9110)		1
C300	253 1120 907	Ceramic Cap. 4700pF/50V	CK45B1H472K	CN6B,6C	205 0748 064	JL Connector (R)		2
C301,302	257 0012 982	Chip Ceramic 0.022μF /50V	CK73F1H223Z	CN7A	205 0748 077	JL Connector (R)		1
C305	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J	CN3H	205 0343 032	3 P Conn. Base (KR-PH)		1
C306	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M		417 0476 007	Radiator		1
C307	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221J		403 7002 018	Tapping Screw (S) 3x8		1
C308,309	257 0012 982	Chip Ceramic 0.022μF /50V	CK73F1H223Z	△ F006	236 1039 063	Fuse 2.0 A T		1
C311,312	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M		202 0040 909	Fuse Clip		2
C317,318	257 0006 972	Chip Ceramic 750pF/50V	CC73SL1H751J		414 0695 005	Shield Plate		1
C319,320	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M					
C321	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221J					
C323,324	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M					
C325,326	256 1034 982	Metalized 0.12μF/50V	CF93A1H124J					
C327,328	255 1265 965	Plastic Film 0.018μF/50V	CQ93M1H183J(B)					
C329,330	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M					
C331-333	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M					
C334,335	257 0012 966	Chip Ceramic 0.01μF /50V	CK73F1H103Z					
C336	254 3056 917	Electrolytic 1μF/50V (Bipolar)	CE04D1H010MBP					
C339	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M					
C340	255 1264 940	Plastic Film 0.0022μF/50V	CQ93M1H222J(B)					
C341,342	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M					
C343,344	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M					
C347-350	255 1265 952	Plastic Film 0.015μF/50V	CQ93M1H153J(B)					
C801-804	254 4260 977	Electrolytic 4.7μF/50V	CE04W1H4R7M					
C805-808	254 4250 958	Electrolytic 470μF/6.3V	CE04W0J471M					
C809	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M					
C810	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M					
C814	257 0012 966	Chip Ceramic 0.01μF/50V	CK73F1H103Z					
C815	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M					
C816	254 4472 707	Electrolytic 4700μF/16V	CE04W1C472MC(SMG)					
C817	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M					
C821	257 0012 966	Chip Ceramic 0.01μF/50V	CK73F1H103Z					
C823	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M					
C826	257 0012 966	Chip Ceramic 0.01μF/50V	CK73F1H103Z					
C827-829	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M					
C830	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M					
C831	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M					
C832	257 0012 982	Chip Ceramic 0.022μF/50V	CK73F1H223Z					
C833	257 0012 966	Chip Ceramic 0.01μF/50V	CK73F1H103Z					
C834	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M					
OTHER GROUP								
		(P.W.Board)						(1s)
L301	235 0060 989	Inductor 120μH						1
XL201	399 0246 900	Ceramic Resonator	CST16.38MXW0C4-TF01					1
	204 8266 008	4 P Pin Jack(S-GND)						2
	204 8278 009	6 P Pin Jack(S-GND)						1
	204 8346 009	6 P Pin Jack(S-GND)						1
	204 8365 006	6 P Pin Jack(S-GND)						1
	204 8474 007	1 P Pin Jack(S-GND)						1
	205 0075 025	2 P Terminal						1

1U-2745 FLD UNIT ASS'Y

Ref. No.	Parts No.	Parts Name	Remarks	Ref. No.	Parts No.	Parts Name	Remarks	
SEMICONDUCTORS GROUP								
IC001	263 0891 001	IC LA1265(S)	IC Protector 15V Regulator +12V	R006	247 0008 902	Chip Carbon 1.8kohm 1/10W	RM73B-182J	
IC002	263 0439 007	IC LA3401		R007	247 0006 920	Chip Carbon 330ohm 1/10W	RM73B-331J	
IC003	263 0791 907	IC LM7001M		R008	247 0005 921	Chip Carbon 120ohm 1/10W	RM73B-121J	
IC004	268 0073 905	IC ICP-N15		R009	247 0010 929	Chip Carbon 15kohm 1/10W	RM73B-153J	
IC005	263 0801 004	IC NJM7812FA(S)		R010	247 0004 980	Chip Carbon 82ohm 1/10W	RM73B-820J	
IC565	263 0565 007	IC BA15218	R011	247 0010 945	Chip Carbon 18kohm 1/10W	RM73B-183J		
IC601 or	263 0648 005 263 0793 002	IC :MC7806CT IC NJM7806FA(S) IC MCT7806CT	Regulator +6V	R012,013	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	
IC602	268 0073 905	IC ICP-N15	IC Protector 15V	R014	247 0009 943	Chip Carbon 6.8kohm 1/10W	RM73B-682J	
IC651,652	268 0074 904	IC ICP-N20	IC Protector 20V	R015	247 0009 998	Chip Carbon 11kohm 1/10W	RM73B-113J	
IC653	263 0936 000	IC NJM7820FA(S)	Regulator +20V	R017	247 0008 960	Chip Carbon 3.3kohm 1/10W	RM73B-332J	
IC654	263 0551 001	IC NJM7915FA(S)	Regulator -15V	R018	247 0011 986	Chip Carbon 68kohm 1/10W	RM73B-683J	
IC655,656	263 0855 005	IC :SI-18752		R019	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	
IC751	262 2035 008	IC MSC1937-03RS	µ-com	R020	247 0011 931	Chip Carbon 43kohm 1/10W	RM73B-433J	
IC752	499 0150 008	IC SBX1610-52	Remocon Sensor	R021	247 0008 960	Chip Carbon 3.3kohm 1/10W	RM73B-332J	
IC803	263 0812 006	IC NJM7815FA(S)	Regulator +15V	R022	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	
TR001	273 0411 909	Transistor 2SC2996(Y)	Built in Resistor	R023	247 0012 943	Chip Carbon 120kohm 1/10W	RM73B-124J	
TR002	269 0114 906	Transistor RN2402		R025	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	
TR003	269 0054 901	Transistor DTC144EK		R026	247 0011 915	Chip Carbon 36kohm 1/10W	RM73B-363J	
TR004	269 0086 908	Transistor DTA114TK		R027,028	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	
TR005,006	269 0066 902	Transistor DTC323TK		R029	247 0009 927	Chip Carbon 5.6kohm 1/10W	RM73B-562J	
TR007	269 0114 906	Transistor RN2402		R030	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	
TR008	275 0075 901	FET 2SK209(Y/GR)		R031,032	247 0009 943	Chip Carbon 6.8kohm 1/10W	RM73B-682J	
TR009	273 0403 904	Transistor 2SC2712(Y/GR)		R034	247 0008 960	Chip Carbon 3.3kohm 1/10W	RM73B-332J	
TR565	269 0020 906	Transistor DTC114ES		Built in Resistor	R035	247 0018 905	Chip Carbon 0ohm 1/10W	RM73B-0R0K
TR567,568	275 0061 902	FET 2SK184(GR)/(BL)	Built in Resistor	R036,037	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	
TR569	269 0046 906	Transistor DTA114ES		R038	247 0009 985	Chip Carbon 10kohm 1/10W	RM73B-103J	
TR616	273 0388 906	Transistor 2SC1740S(E)	Built in Resistor	R039	247 0008 986	Chip Carbon 3.9kohm 1/10W	RM73B-392J	
TR626	273 0388 906	Transistor 2SC1740S(E)		R040	247 0009 969	Chip Carbon 8.2kohm 1/10W	RM73B-822J	
TR651	273 0388 906	Transistor 2SC1740S(E)		R041	247 0006 946	Chip Carbon 390ohm 1/10W	RM73B-391J	
D001,002	276 0432 903	Diode 1SS270A	Bridge	R042	247 0005 947	Chip Carbon 150ohm 1/10W	RM73B-151J	
D006	276 0432 903	Diode 1SS270A		R043	247 0005 905	Chip Carbon 100ohm 1/10W	RM73B-101J	
D565,566	276 0432 903	Diode 1SS270A		R044	247 0004 906	Chip Carbon 390ohm 1/10W	RM73B-390J	
D607	276 0432 903	Diode 1SS270A		R045,046	247 0007 945	Chip Carbon 1kohm 1/10W	RM73B-102J	
D608-613	276 0553 905	Diode 1SR35-200A		R047	247 0018 905	Chip Carbon 0ohm 1/10W	RM73B-0R0K	
D615	276 0432 903	Diode 1SS270A		R048	247 0010 961	Chip Carbon 22kohm 1/10W	RM73B-223J	
D652	276 0330 007	Diode S4VB20F		R049	247 0012 927	Chip Carbon 100kohm 1/10W	RM73B-104J	
ZD608	276 0644 911	Zener Diode MTZJ7.5A		7.5V	R051-053	247 0018 905	Chip Carbon 0ohm 1/10W	RM73B-0R0K
ZD751	276 0644 924	Zener Diode MTZJ8.2A		8.2V	R068	247 0008 960	Chip Carbon 3.3kohm 1/10W	RM73B-332J
P651	279 0034 067	Posistor PTH9M04BB22TS2F333		Red	R072	247 0018 905	Chip Carbon 0ohm 1/10W	RM73B-0R0K
LD751	393 9434 906	LED SEL1210S			R073	247 0012 943	Chip Carbon 120kohm 1/10W	RM73B-124J
					R081-094	247 0018 905	Chip Carbon 0ohm 1/10W	RM73B-0R0K
RESISTORS GROUP (Not included Carbon Film ±5%, 1/4 W Type.)								
R001	247 0005 905	Chip Carbon 100ohm 1/10W		RM73B-101J	VR565	211 0798 103	Variable Resistor 100kohm	
R003	247 0005 989	Chip Carbon 220ohm 1/10W		RM73B-221J	VR566	211 0797 117	Variable Resistor 30kohm	
R004	247 0009 901	Chip Carbon 4.7kohm 1/10W	RM73B-472J	VR567	211 0797 133	Variable Resistor 10kohm		
R005	247 0006 920	Chip Carbon 330ohm 1/10W	RM73B-331J	CAPACITORS GROUP				
				C001-004	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z	
				C005	254 4260 922	Electrolytic 0.33µF/50V	CE04W1HR33M	
				C006	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J	
				C007	257 0004 987	Chip Ceramic 120pF/50V	CC73SL1H121J	
				C008	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M	
				C010,011	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z	
				C012	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HR47M	
				C013	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M	
				C014	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M	
				C015	257 0012 982	Chip Ceramic 0.022µF/50V	CK73F1H223Z	
				C017	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M	

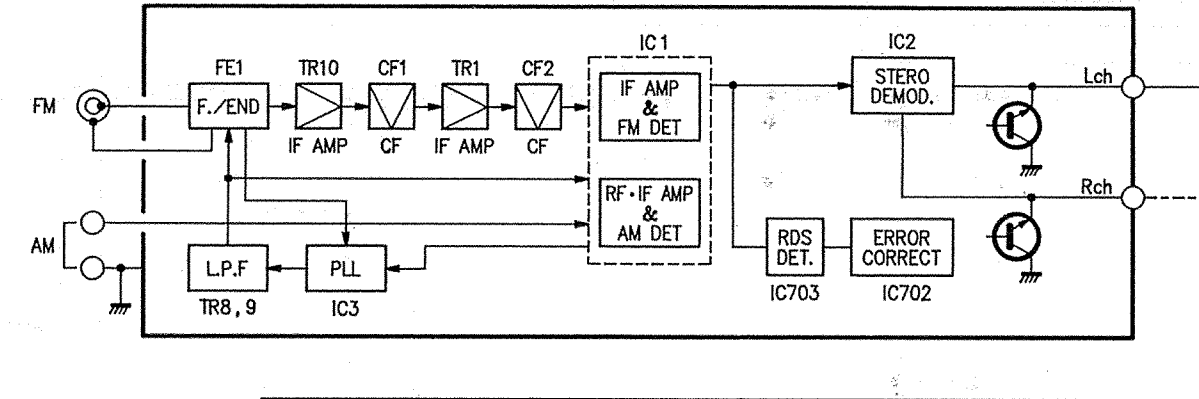
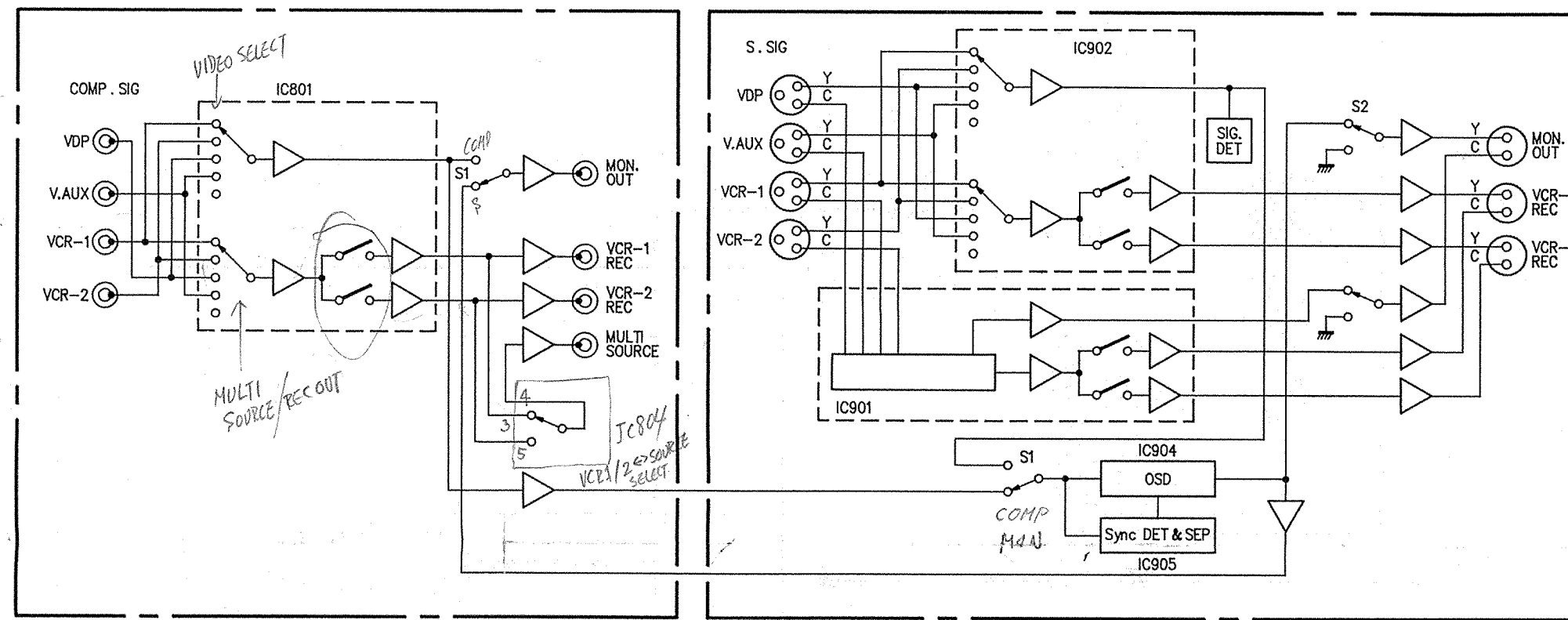
WIRING DIAGRAM



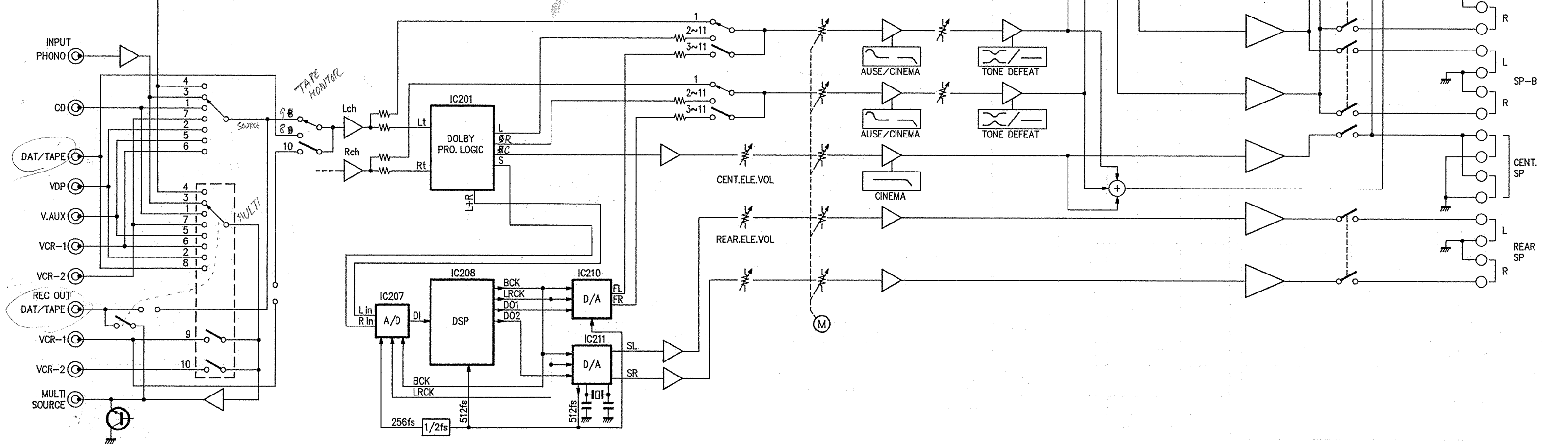
BLOCK DIAGRAM

1 2 3 4 5 6 7 8 9 10 11

	MON. OUT	VCR1	VCR2	MULTI
VDP	VDP	VDP	VDP	X
MULTI V.AUX	VDP	AUX	AUX	AUX
MULTI VCR1	VDP	X	VCR1	VCR1
MULTI VCR2	VDP	VCR2	X	VCR2
V.AUX	AUX	AUX	AUX	X
MULTI VDP	AUX	VDP	VDP	VDP
MULTI VCR1	AUX	X	VCR1	VCR1
MULTI VCR2	AUX	VCR2	X	VCR2



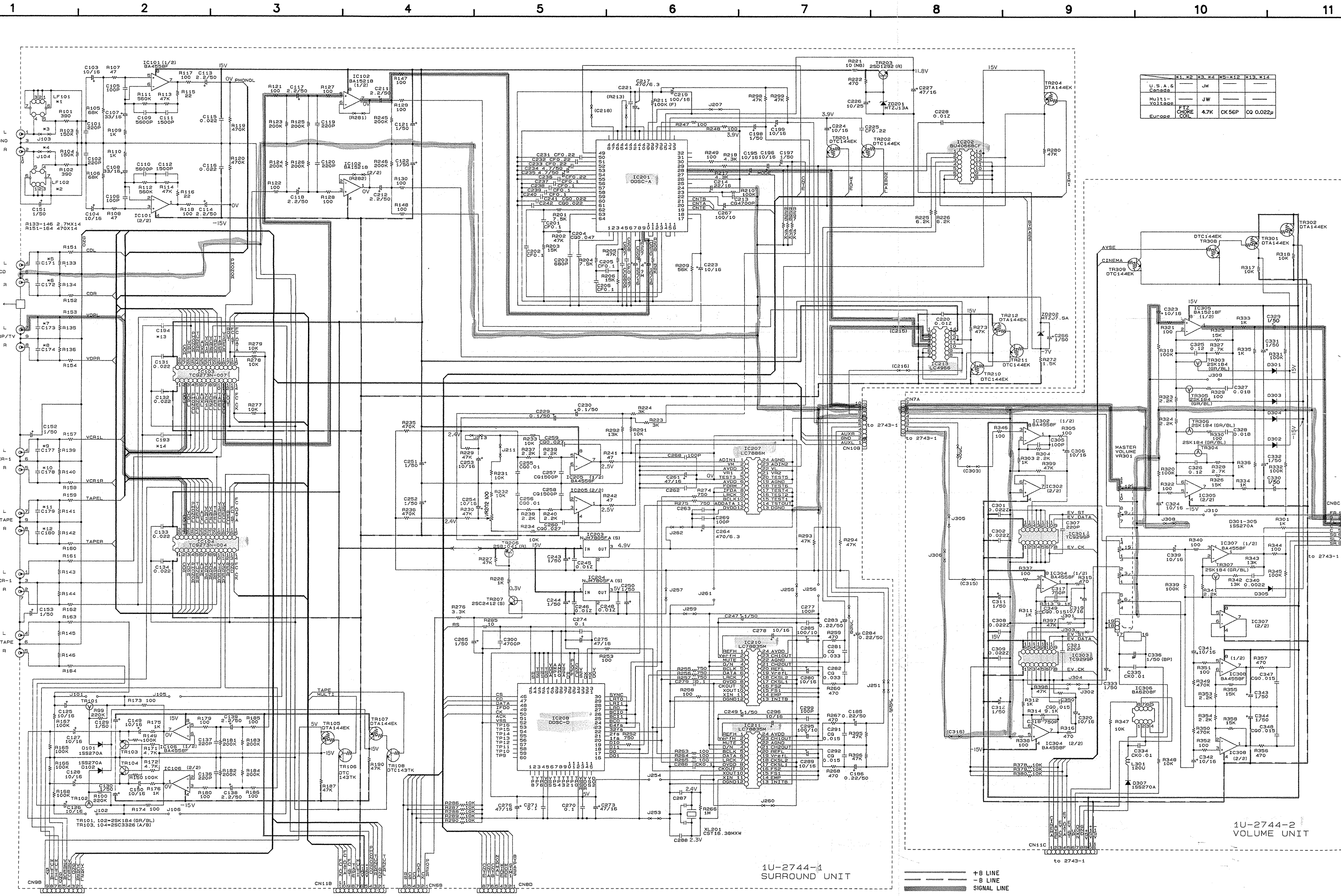
- SURROUND MODE
1. STEREO
 2. DOLBY PRO. LOGIC
 3. WIDE SCREEN
 4. LIVE
 5. DSP SURROUND



RC116

A B C D E F G H

SCHEMATIC DIAGRAM - (1/4)



	M1	M2	M3	M4	M5	M12	M13	M14
U.S.A. & Canada	JW							
Europe	JW							

NOTES
 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.

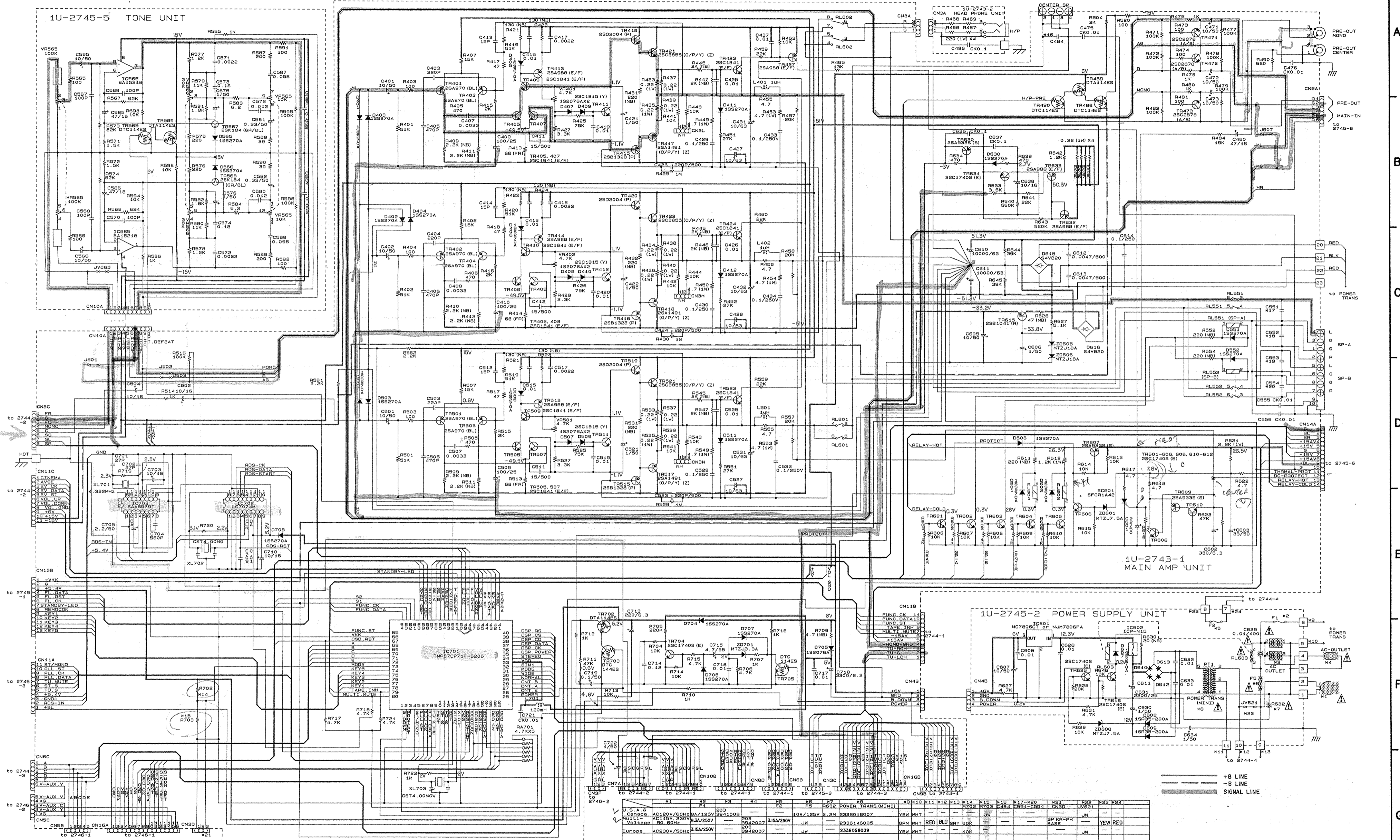
WARNING:
 Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

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 240 kohms, the unit is defective.

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

SCHEMATIC DIAGRAM - (2/4)

11 10 9 8 7 6 5 4 3 2 1



NOTES
 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 240 kohms, the unit is defective.

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

SCHEMATIC DIAGRAM - (3/4)

1 2 3 4 5 6 7 8 9 10 11

A

B

C

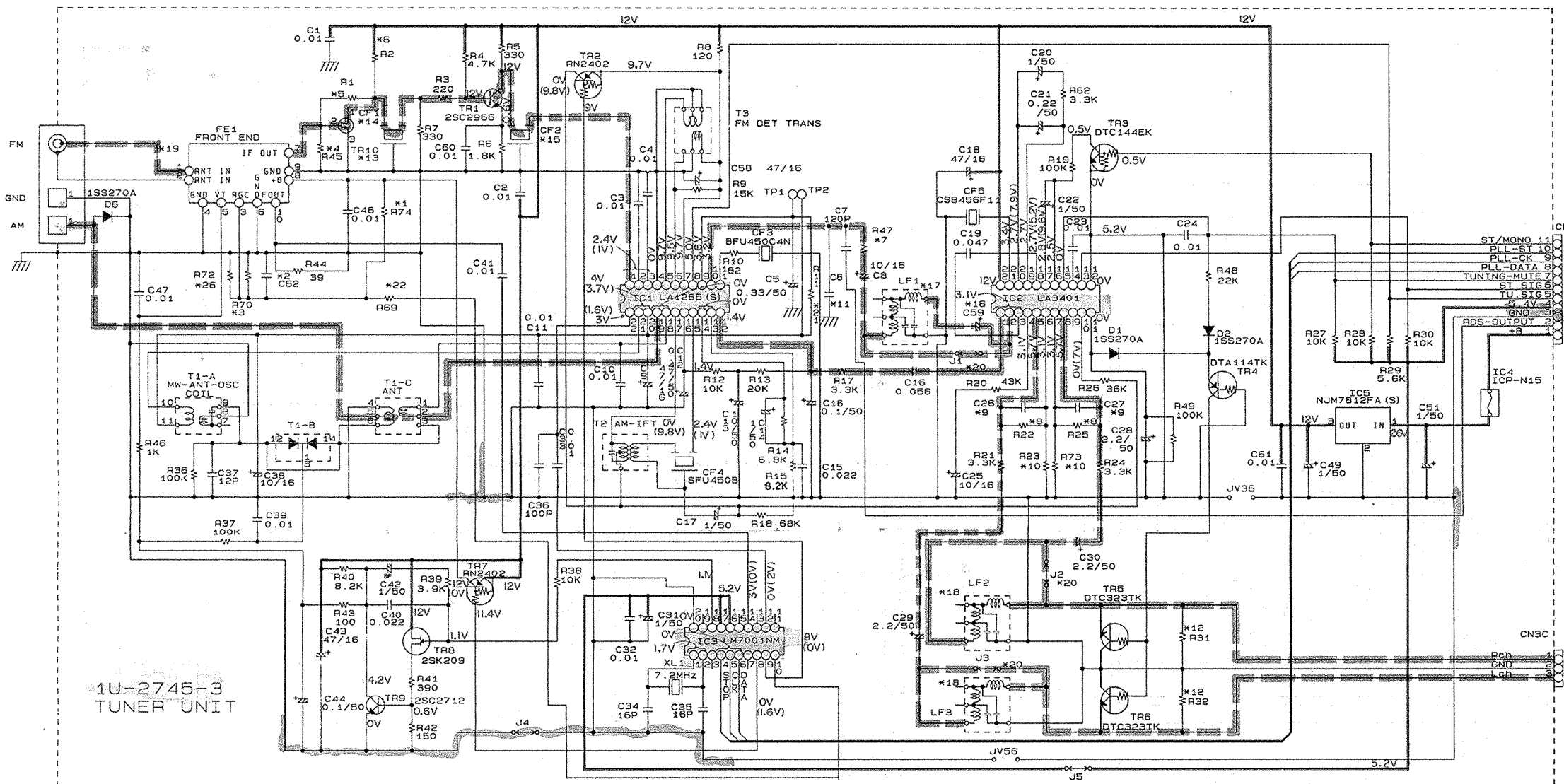
D

E

F

G

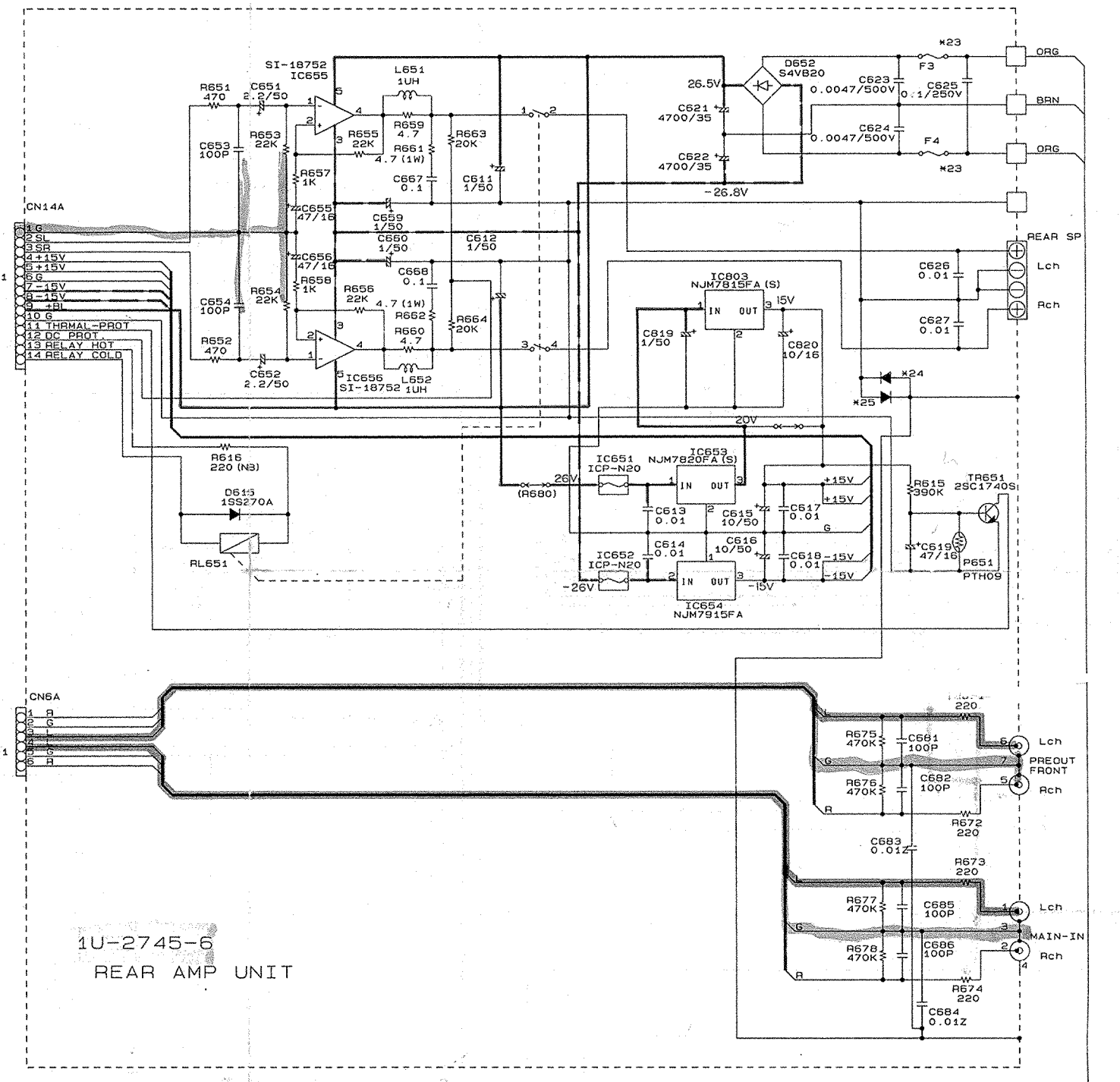
H



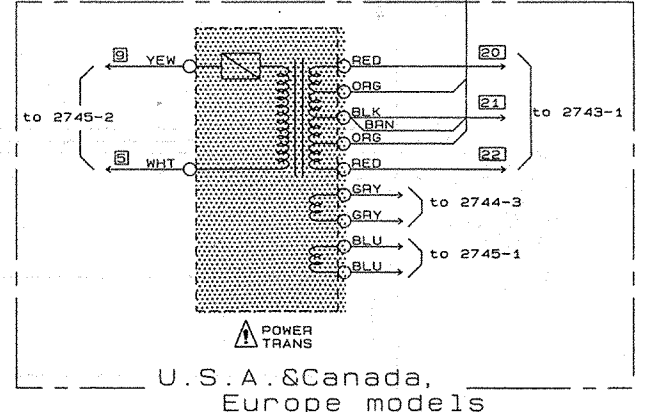
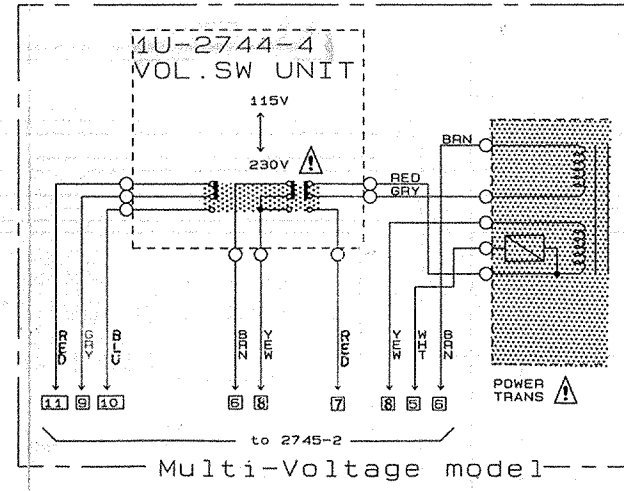
	*1	*2	*3	*4	*5	*6	*7	*8	*9	*10	*11	*12	*13	*14	*15
U.S.A. & Canada	R74	C82	R70	R68	R1	R2	R67	R66	R65	C27	R63	R62	R61	R60	R59
Multi-Voltage			1K	100		100K	100K	100K	100K	100K	100K	100K	100K	100K	100K
Europe	10K	CK0.015	5K	390		330	1.2K	150K	CC330P	200K		3.3K	25K211	10.7MS2	10.7MS2

	*16	*17	*18	*19	*20	*21	*22	*23	*24	*25	*26	
U.S.A. & Canada	C59	LP1	FR	LP3	FE1	U1	U2	J3	R11	R69	R5	C639
Multi-Voltage					21600R4007	JH	16K	RA/12RV	CK0.01Z		CH12	Jumper
Europe	22/16	ANTI-BIRDIE	LPF	21600R5008		39K	4.7K	JH	CK0.01Z			

VOLTAGE MEASURING CONDITION FOR EACH SECTION:
 FUNCTION: TUNER
 BAND: FM 98.1MHz, NO SIGNAL
 HOWEVER, FIGURES IN () ARE FOR
 AM 1000kHz AT THE TIME OF NO SIGNAL



--- +B LINE
 --- -B LINE
 --- SIGNAL LINE
 --- AM & Rch SIGNAL LINE
 --- FM & Lch SIGNAL LINE



NOTES
 ALL RESISTANCE VALUES IN OHM. K=1,000 OHM, M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
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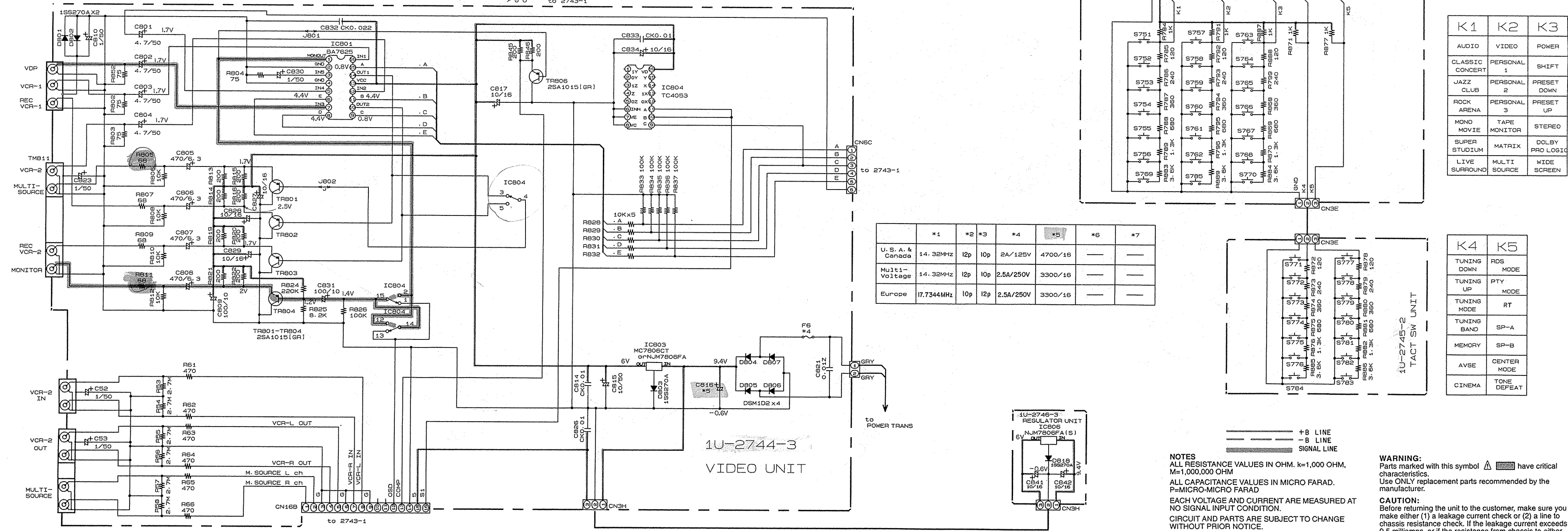
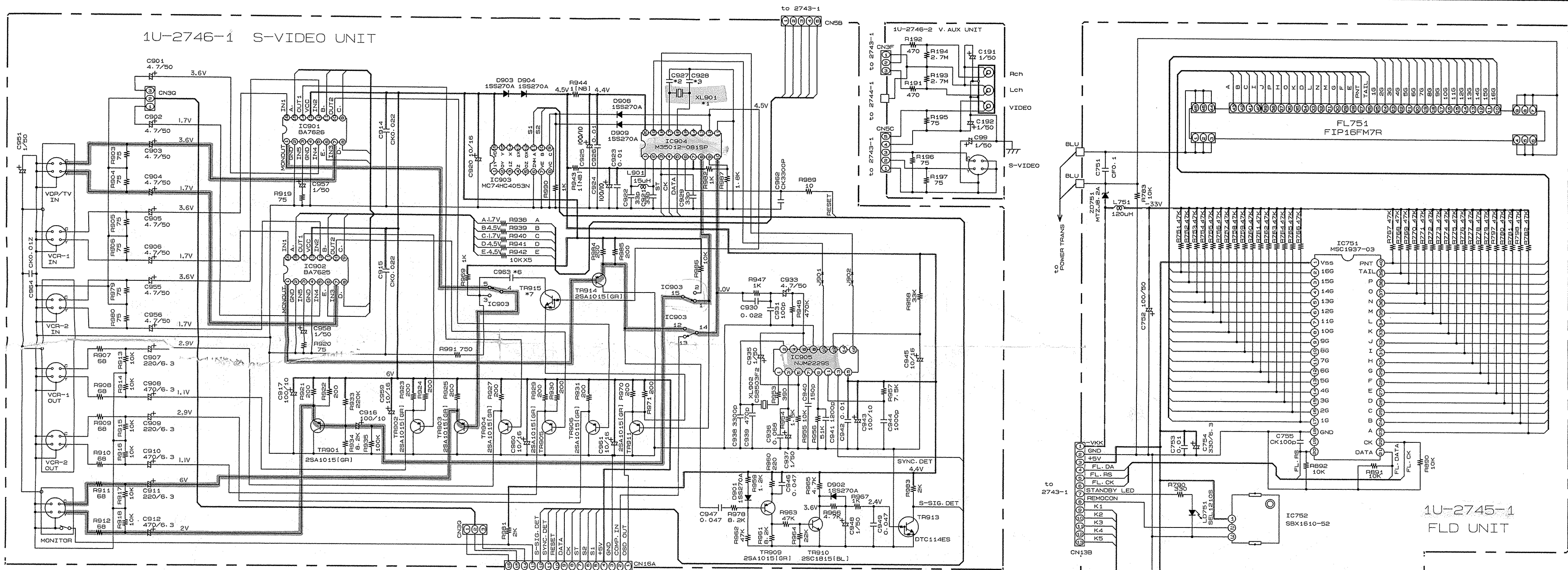
WARNING:
 Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

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 240 kohms, the unit is defective.

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

SCHEMATIC DIAGRAM - (4/4)

11 10 9 8 7 6 5 4 3 2 1



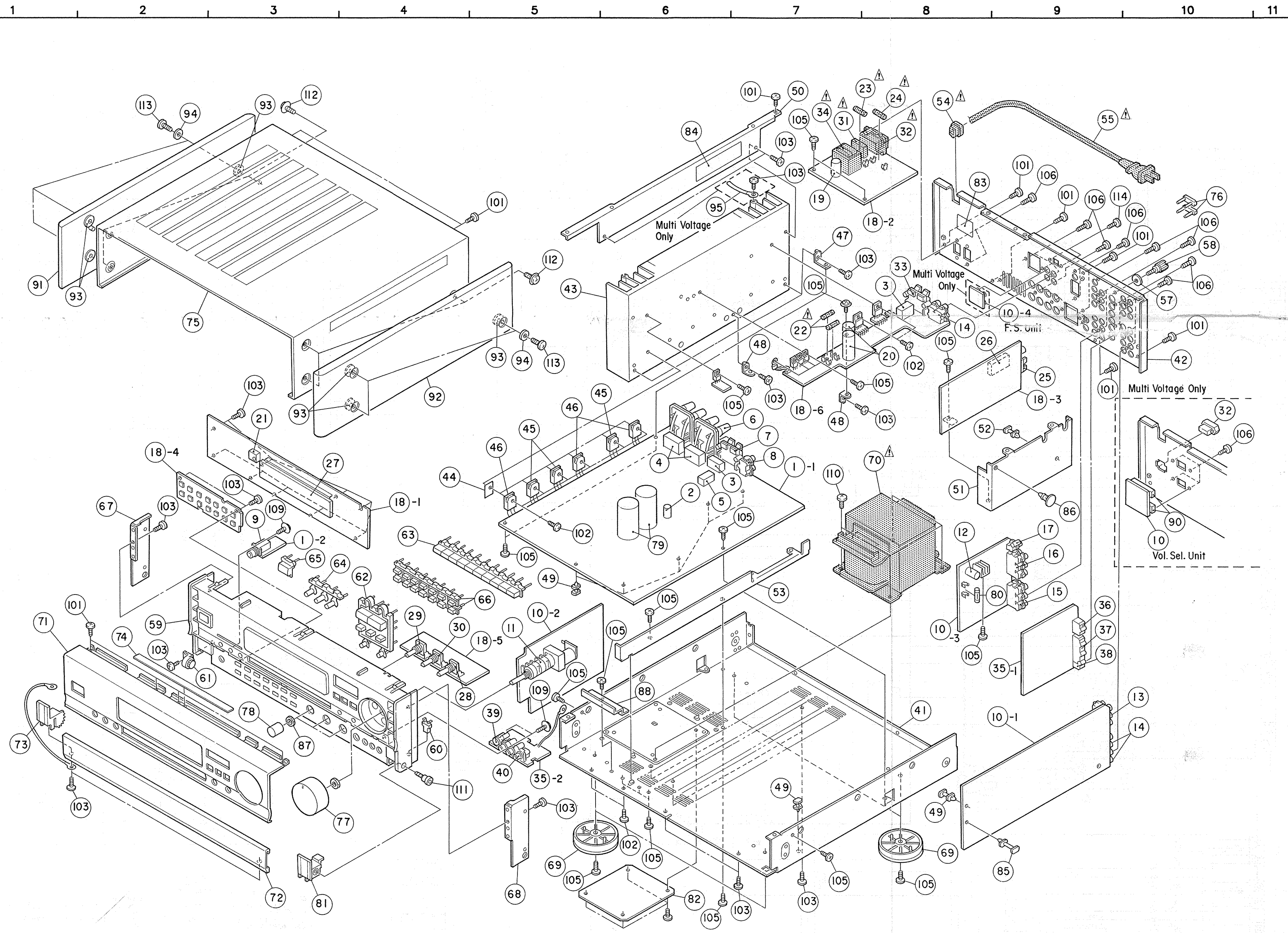
K1	K2	K3
AUDIO	VIDEO	POWER
CLASSIC CONCERT	PERSONAL 1	SHIFT
JAZZ CLUB	PERSONAL 2	PRESET DOWN
ROCK ARENA	PERSONAL 3	PRESET UP
MONO MOVIE	TAPE MONITOR	STEREO
SUPER STUDIO	MATRIX	DOLBY PRO LOGIC
LIVE SURROUND	MULTI SOURCE	WIDE SCREEN


K4	K5
TUNING DOWN	RTS MODE
TUNING UP	PTY MODE
TUNING MODE	RT
TUNING BAND	SP-A
MEMORY	SP-B
AVSE	CENTER MODE
CINEMA	TOPE DEFEAT

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

WARNING:
 Parts marked with this symbol Δ have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.
CAUTION:
 Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is defective.
WARNING:
 DO NOT return the unit to the customer until the problem is located and corrected.

EXPLODED VIEW OF CHASSIS AND CABINET



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

PARTS LIST OF EXPLODED VIEW

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	Note	Main Amp. Unit Ass'y		1s	49	412 2814 002	Card Spacer (L=8)		7
1-1	—	Main Amp. Unit		(1)	50	412 3876 007	*Radiator Bracket		1
1-2	—	Headphone Unit		(1)	51	412 3913 009	*Shield Chassis		1
2	254 4250 783	Chemicon 3300µF/6.3V	C718	1	52	412 2814 044	Card Spacer (L=6)		1
3	214 0167 005	Relay (G5Z-2A)	RL601,651	2	53	411 1305 108	*Center Chassis		1
4	214 9003 005	Relay	RL551,552	2	54	445 0056 008	Cord Bush		1
5	214 0127 003	Relay (RY-12W)	RL602	1	55	Note	AC Cord (Polarized)		1
6	205 0472 013	8 P SP Terminal		1	56	—	—		—
7	205 0592 003	4 P Push Terminal		1	57	477 0018 001	Washer (P-87)		1
8	205 0315 002	2 P Connector Base		1	58	205 0071 016	Terminal Ass'y	GND	1
9	Note	Head Phone Jack		1	59	146 1521 101	Inner Panel Ass'y		1
10	Note	Surround Unit Ass'y		1s	60	435 0125 000	Latch (4T02)		1
10-1	—	Surround Unit		(1)	61	421 9007 007	Mini Damper		1
10-2	—	Volume Unit		(1)	62	Note	*Tact Knob (A)		1
10-3	—	Video Unit		(1)	63	Note	*Function Knob		1
11	211 0637 002	Variable Resistor100kohm	VR301	1	64	Note	Knob (3 Key)		1
12	254 4472 707	Chemicon 4700µF/16V	C816	1	65	Note	Push Knob (P)		1
13	204 8278 009	6 P Pin Jack(S-GND)		1	66	Note	*Tact Knob (B)		2
14	204 8266 008	4 P Pin Jack(S-GND)		3	67	412 3878 102	*Side Bracket (L)		1
15	204 8346 009	6 P Pin Jack(S-GND)		1	68	412 3879 101	*Side Bracket (R)		1
16	204 8365 006	6 P Pin Jack(S-GND)		1	69	104 0194 108	Foot Ass'y		4
17	204 8474 007	1 P Pin Jack(S-GND)		1	70	Note	*Power Trans		1
18	Note	FLD Unit Ass'y		1s	71	Note	Front Panel		1
18-1	—	FLD Unit		(1)	72	Note	Trap Door		1
18-2	—	Power Supply Unit		(1)	73	401 0165 203	Hinge (L)		1
18-3	—	Tuner Unit		(1)	74	122 0183 049	Spacer		1
18-4	—	Tact Switch Unit		(1)	75	Note	Top Cover		1
18-5	—	Tone Unit		(1)	76	205 0752 005	Short Pin		2
18-6	—	Rear Amp. Unit		(1)	77	Note	VR Knob Ass'y		1
19	254 4256 790	Chemicon 2200µF/25V	C631	1	78	Note	Vol. Knob (B)		3
20	254 4259 726	Chemicon 4700µF/35V	C621,622	2	79	254 4362 707	Chemicon 10000µF/63V	C610,611	2
21	499 0150 008	Remocon Sensor SBX1610-52	IC752	1	80	Note	Fuse 2.0 A T	F005	1
22	Note	Fuse n A	F003,004	2	81	401 0166 309	Hinge (R)		1
23	Note	Fuse n A	F001	1	82	412 3933 005	Safety Cover		1
24	Note	Fuse n A	F005	1	83	513 2341 001	Caution Label (A)		1
25	205 0847 004	3 P Ant. Terminal (PAL/F)		1	84	513 2342 000	Caution Label (B)		1
26	Note	Front End		1	85	412 2814 015	Card Spacer (L=14)		1
27	393 4156 001	FLD (FIP16FM7R)	FL751	1	86	412 2741 007	P.W.B. Holder (H=8)		1
28	211 0798 103	Variable Resistor 100kohm	VR565	1	87	475 6138 002	M9 Volume Nut		2
29	211 0797 117	Variable Resistor 30kohm	VR566	1	88	412 3938 000	Support Bracket		1
30	211 0797 133	Variable Resistor 10kohm	VR567	1	89	445 8004 007	Wire Clamper		9
31	214 0170 005	Relay (TV-6)	RL603	1	SCREWS				
32	Note	AC Outlet		1	101	473 7015 018	Tapping Screw(S)3x8	Black	10
33	205 0592 003	4 P Push Terminal	for SP	1	102	473 8007 009	Cup Screw 3x12		10
34	Note	Power Trans (Mini)		1	103	Note	Tapping Screw(P)3x8	Note	
35	Note	S-Video Unit Ass'y		1s	104	—	—		
35-1	—	S-Video Unit		(1)	105	Note	Tapping Screw(S)3x8	Note	
35-2	—	V-Aux. Unit		(1)	106	Note	Fixing Screw	Note	
36	204 8414 012	2 P S-Terminal		1	107	—	—		
37	204 8415 011	3 P S-Terminal		1	108	—	—		
38	205 0902 004	1 P S-Terminal (SW)		1	109	477 0262 006	Special Screw		3
39	205 0903 003	1 P S-Terminal (3.5)		1	110	473 7004 016	Tapping Screw(S)4x6		4
40	204 8404 006	3 P Pin Jack		1	111	471 9020 018	Special Screw		1
41	411 1304 109	*Main Chassis		1	112	Note	3 P Swelling Screw		6
42	Note	*Rear Panel		1	113	Note	Tapping Screw(S)4x20		
43	417 0506 003	*Power Radiator		1	114	Note	Bind Screw 2.6x4		2
44	415 0234 007	Insulating Sheet		6					
45	273 0389 002	Transistor 2SC3855(O/P/Y)(Z)	TR421,422,521	3					
46	271 0240 006	Transistor 2SA1491(O/P/Y)(Z)	TR417,418,517	3					
47	412 3225 108	*P.W.B. Bracket(A)		2					
48	412 3724 007	L Bracket		2					

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
PACKING & ACCESSORIES (Not included EXPLODED VIEW.)				
150	504 9102 029	Styrene Paper		1
151	505 9102 019	Poly Cover		1
152	Note	Cushion Ass'y		1
153	399 0245 008	Remote Control	RC-180	1
154	Note	Carton Case		1
155	Note	UPC Label		1
156	Note	DEL Warranty Home		1
	Note	DCI Warranty Home		1
157	Note	Envelope Sub Ass'y		1s
157-1	505 8006 019	Envelope		(1)
157-2	Note	*Inst. Manual		(1)
157-3	231 0922 009	Loop Antenna		(1)
157-4	395 0023 008	*FM Antenna Ass'y		(1)
157-5	—	Batteries		(2)
158	Note	CSA Label		1
159	515 0671 106	Service Station List		1

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%, 1/6W, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

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

ADDENDUM PARTS LIST

Ref. No.	Parts Name & Description	Parts No.			
		U.S.A. Black	Canada Black	M.-Voltage Black	M.-Voltage Gold
1	Main Amp. Unit Ass'y (1s)	1U-2743	1U-2743	1U-2743 *	1U-2743 *
9	Head Phone Jack (1)	204 8354 004	204 8354 004	204 8354 004	204 8*** 00*
10	Surround Unit Ass'y (1s)	1U-2744	1U-2744	1U-2744 *	1U-2744 *
18	FLD Unit Ass'y (1s)	1U-2745	1U-2745	1U-2745 *	1U-2745 *
22	Fuse n A (F003,004)	206 1046 027	206 1046 027	---	---
23	Fuse n A (F001)	5 AT	5 AT	5 AT	5 AT
24	Fuse n A (F005)	8 AT	8 AT	6.3 AT	6.3 AT
26	Front End (1)	216 0064 007	216 0064 007	216 0064 007	216 0064 007
32	AC Outlet (1)	203 3941 008	203 3941 008	203 3942 007	203 3942 007
34	Power Trans (Mini) (1)	233 6018 007	233 6018 007	233 6146 005	233 6146 005
35	S-Video Unit Ass'y (1s)	1U-2746	1U-2746	1U-2746 *	1U-2746 *
42	Rear Panel (1)	105 1137 109	105 1137 109	105 1137 0**	105 1137 0**
55	AC Cord with Plug (1)	206 2060 002	206 2060 002	206 **** **	206 **** **
62	Tact Knob (A) (1)	113 1691 002	113 1691 002	113 1691 002	113 1691 0**
63	Function Knob (1)	113 1692 001	113 1692 001	113 1692 001	113 1692 0**
64	Knob (3 Key) (1)	113 1379 036	113 1379 036	113 1379 036	113 1379 0**
65	Push Knob (P) (1)	113 1292 207	113 1292 207	113 1292 207	113 1292 2**
66	Tact Knob (B) (2)	113 1693 000	113 1693 000	113 1693 000	113 1693 0**
70	Power Trans (1)	233 6125 000	233 6125 000	233 61** **	233 61** **
71	Front Panel (1)	144 2398 104	144 2398 104	144 2398 104	144 2398 1**
72	Trap Door (1)	144 1941 167	144 1941 167	144 1941 167	144 1941 1**
75	Top Cover (1)	102 0406 531	102 0406 531	102 0406 531	102 0406 **
77	VR Knob Ass'y (1)	112 0726 108	112 0726 108	112 0726 108	112 0726 1**
78	Vol. Knob (B) (3)	112 0555 007	112 0555 007	112 0555 007	112 0555 0**
80	Fuse n A (F006)	2.5 AT	2.5 AT	2.5 AT	2.5 AT
90	Voltage Sel. Switch (2)	---	---	212 2611 003	212 2611 003
91	Wood Board (L) (1)	---	---	101 2500 005	101 2500 005
92	Wood Board (R) (1)	---	---	101 2501 004	101 2501 004
93	Felt Sheet (6)	---	---	124 0032 002	124 0032 002
94	Washer φ5 (6)	---	---	475 1006 016	475 1006 016
95	Cord Holder (L=50) (1)	---	---	445 0048 016	445 0048 016
96					
SCREWS					
103	Tapping Screw (P) 3x8	473 7500 015 (25)	473 7500 015 (25)	473 7500 015 (26)	473 7500 015 (26)
105	Tapping Screw (S) 3x8	473 7002 018 (26)	473 7002 018 (26)	473 7002 018 (27)	473 7002 018 (27)
106	Fixing Screw	477 0064 107 (21)	477 0064 107 (21)	477 0064 107 (23)	477 0064 107 (23)
112	3 P Swelling Screw (4)	477 0263 005	477 0263 005	---	---
113	Tapping Screw (S) 4x20 (6)	---	---	473 7007 039	473 7007 039
114	Baird Screw 2.6x4 (2)	---	---	471 3201 024	471 3201 024
PACKING & ACCESSORIES (Not included EXPLODED VIEW.)					
152	Cushion (1)	503 1147 102	503 1147 102	503 1147 0**	503 1147 0**
154	Carton Case (1)	501 1821 008	501 1821 008	501 1821 0**	501 1821 0**
155	UPC Label (1)	517 0104 006	517 0104 019	---	---
156	DEL Warranty Home DCI Warranty Home (1)	515 0690 006	---	---	---
157	Envelope Sub. Ass'y (15)	GEN 2883	GEN 2883 -1	GEN 2883 -	GEN 2883 -
157-2	Inst. Manual (1)	511 2661 002	511 2670 006	511 2661 002 (E)	511 2661 002 (E)
158	CSA Label (1)	---	LL- 6406 4	---	---
160	Color Label (Gold) (2)	---	---	---	513 9111 001
161	Side Pad (2)	---	---	504 0159 039	504 0159 039
162	AC Adapter (4.8) (1)	---	---	202 0043 003	202 0043 003

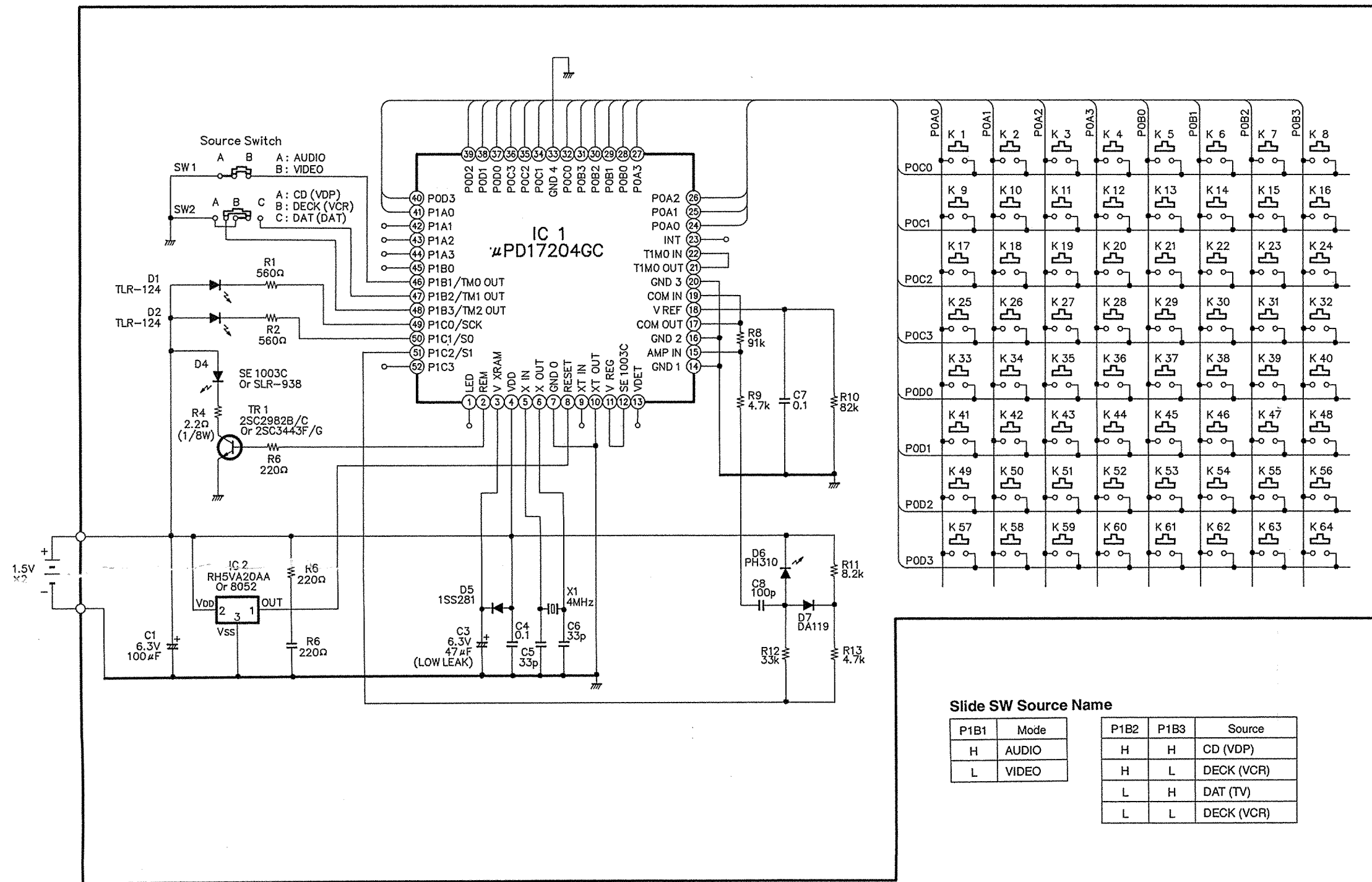
REMOTE CONTROL UNIT (RC-180)

REMOTE CONTROL UNIT ASS'Y PARTS LIST PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	Q'ty
SEMICONDUCTORS GROUP								
IC1		IC μPD17204GC-538	μ-Com	1		Case Top Ass'y		1
IC2	9H3 1000 158	IC RH5VA20AA	VOL. Detector	2		---		
TR1	9H3 1000 070	Transistor 2SC3443BF/BG	Chip	3		Switch Rubber		1
or	9H3 1000 070	Transistor 2SC2982B/C	Chip	4	9H3 1000 146	Case Bottom Ass'y		1
D1,2	9H3 1000 028	LED TLR124	Visible-Red	5	9H3 1000 147	Cover Battery		1
D4	9H3 1000 131	LED SE1003-C	Inflared	6	9H3 1000 148	IR Filter		1
D5	9H3 1000 087	Diode 1SS281 (1)		7	9H3 1000 150	Switch Button		2
D6	9H3 1000 029	Diode PH310	Photo-PIN	8		---		
D7	9H3 1000 071	Diode DA119/DA118	Chip	9	9H3 1000 153	Spring Coil		1
or		Diode 1SS196		10	9H3 1000 151	Spring Coil		1
RESISTORS GROUP								
R1,2	247 0006 988	Chip Resistor 560ohm, 1/10W	RM73B-561J	11	9H3 1000 152	Spring Coil		1
R4	247 0001 909	Chip Resistor 2.2ohm, 1/10W	RM73B-2R2J	12	9H3 1000 154	Tapping Screw 2x6		1
R6	247 0005 989	Chip Resistor 220ohm, 1/10W	RM73B-221J	13	9H3 1000 155	Tapping Screw 2x5		1
R7	247 0012 927	Chip Resistor 100kohm, 1/10W	RM73B-104J	14	9H3 1000 156	P.W.Unit Ass'y		1
R8	247 0012 914	Chip Resistor 91kohm, 1/10W	RM73B-913J	15		Label		1
R9	247 0009 901	Chip Resistor 4.7kohm, 1/10W	RM73B-472J	16		Sheet		1
R10	247 0012 901	Chip Resistor 82kohm, 1/10W	RM73B-823J					
R11	247 0009 969	Chip Resistor 8.2kohm, 1/10W	RM73B-822J					
R12	247 0011 902	Chip Resistor 33kohm, 1/10W	RM73B-333J					
R13	247 0009 901	Chip Resistor 4.7kohm, 1/10W	RM73B-472J					
J7,8	247 0018 905	Chip Resistor 0ohm, 1/10W	RM73B-0R0K					
CAPACITORS GROUP								
C1	254 4213 034	Electrolytic 100μF/6.3V	CE04W0J101M					
C2	---	Chip Ceramic 0.33μF/25V	CK73F1E334Z					
C3	254 4213 021	Electrolytic 47μF/6.3V	CE04W0J470M					
C4	257 0014 935	Chip Ceramic 0.1μF/25V	CK73F1E104Z					
C5,6	257 0003 946	Chip Ceramic 33PF/50V	CK73SL1H330J					
C7	257 0014 935	Chip Ceramic 0.1μF/25V	CK73F1E104Z					
C8	257 0004 961	Chip Ceramic 100PF/50V	CC73SL1H101J					
OTHER GROUP								
X1	---	(P.W. Board)						(1)
SW1	9H3 1000 088	Ceramic Resonator	KBR4.0M503					1
SW2	9H3 1000 089	Slide Switch 1-2						1
		Slide Switch 1-3						1
		Port Wrapping						2

REMOTE CONTROL UNIT (RC-180)

SCHEMATIC DIAGRAM



KEY TABLE

K1			
K9	K10	K11	K12
K17	K18	K19	K20
K25	K26	K27	K28
K33	K34	K35	K36
K41	K42	K43	K44
K49	K50	K51	K52
K61	K62	K63	K64
K53	K54	K55	K56
K45	K46	K47	K56
K37	K38	K39	K40
K29	K30	K31	K32
K21	K22	K23	K24
K13	K14	K15	K16
K5	K6	K7	K8

Slide SW Source Name

P1B1	Mode	P1B2	P1B3	Source
H	AUDIO	H	H	CD (VDP)
L	VIDEO	H	L	DECK (VCR)
		L	H	DAT (TV)
		L	L	DECK (VCR)

A

B

C

D

E