

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

| | for North America model | for multi-voltage model |
|--|--|--|
| • Audio Section | | |
| (Power amplifier) | MAIN (main 2ch driven) | |
| Rated output: | 85 W + 85 W (8 Ω /ohms, 20 Hz – 20 kHz with 0.05% THD) | 110 W + 110 W (6 Ω /ohms, EIAJ) |
| (All properties shown are only for the power amplifier stage.) | 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^{-14} W) | [AM] |
| Receiving Range: | 87.5 MHz – 107.9 MHz (for North America model) 87.50 MHz – 108.00 MHz (for multi-voltage model) | 520 kHz – 1710 kHz (for North America model) 522 kHz – 1611 kHz (for multi-voltage model) |
| Usable Sensitivity: | 1.0 μ V (11.2 dBf) | 18 μ V |
| 50 dB Quieting Sensitivity: | MONO: 1.6 μ V (15.3 dBf) STEREO: 23 μ V (38.5 dBf) | |
| Signal to Noise Ratio (HF-A): | MONO: 80 dB STEREO: 75 dB | 50 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) \times 161 (H) \times 433 (D) mm (17-3/32" \times 6-11/32" \times 17-3/64") (without side wood boards model) 470 (W) \times 142 (H) \times 433 (D) mm (18-1/2" \times 6-3/8" \times 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: | 6R6/AA Type (two batteries) | |
| External dimensions: | 70 (W) \times 215 (H) \times 19 (D) mm (2-3/4" \times 8-15/32" \times 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

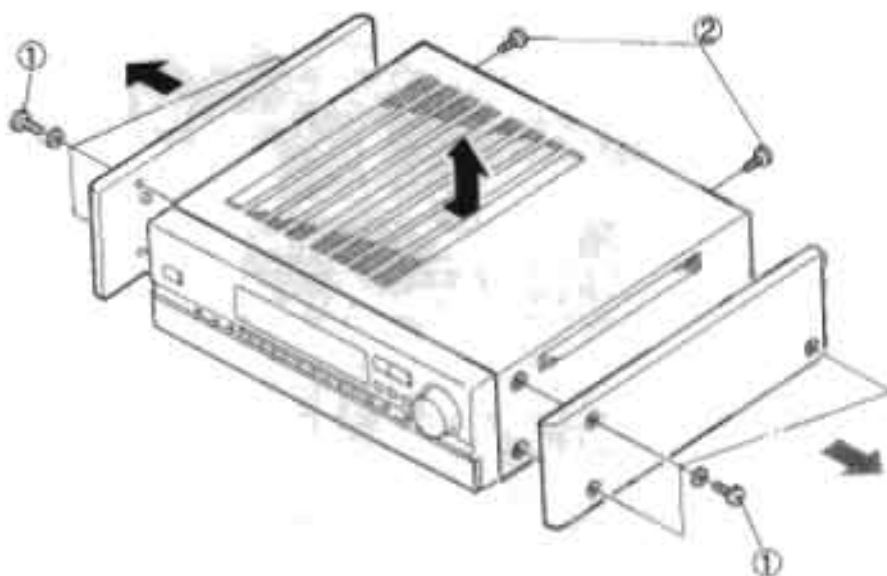
(To reassemble reverse disassembly)

1. Side plates

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

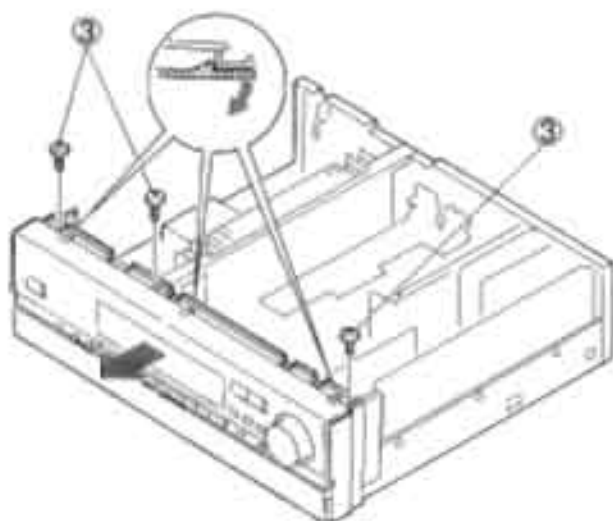
2. Top Cover

Remove 2 rear screws ②



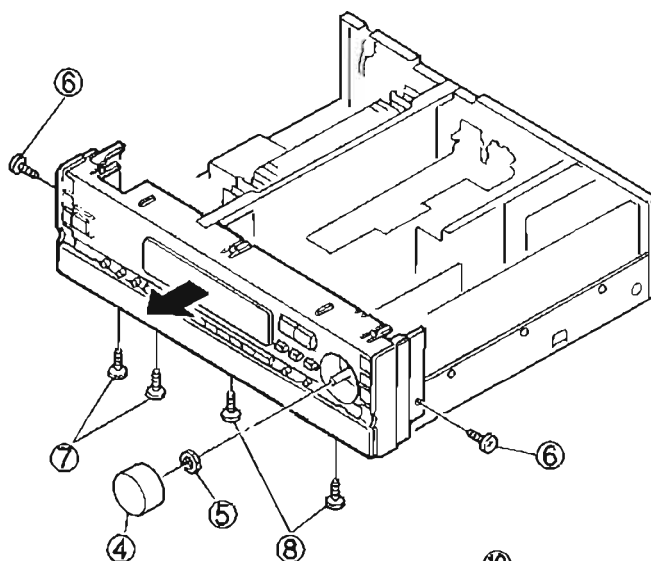
3. Front Aluminium Panel

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



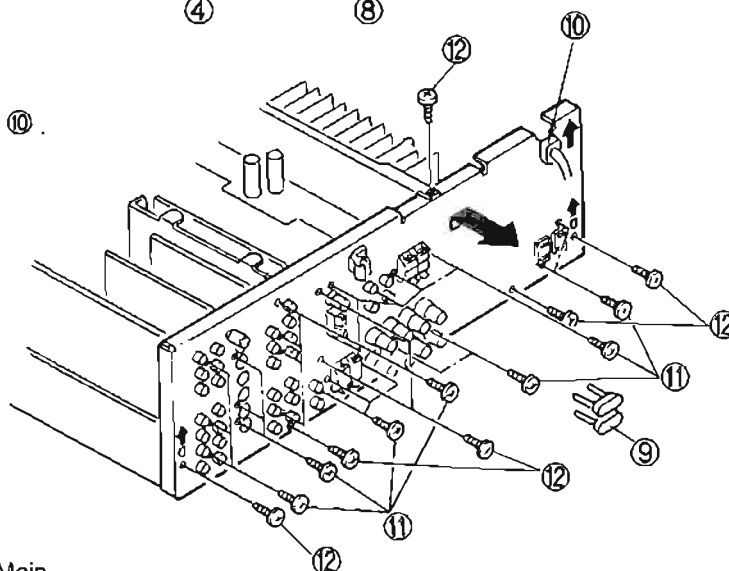
4. Front Mold Panel

- (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 .



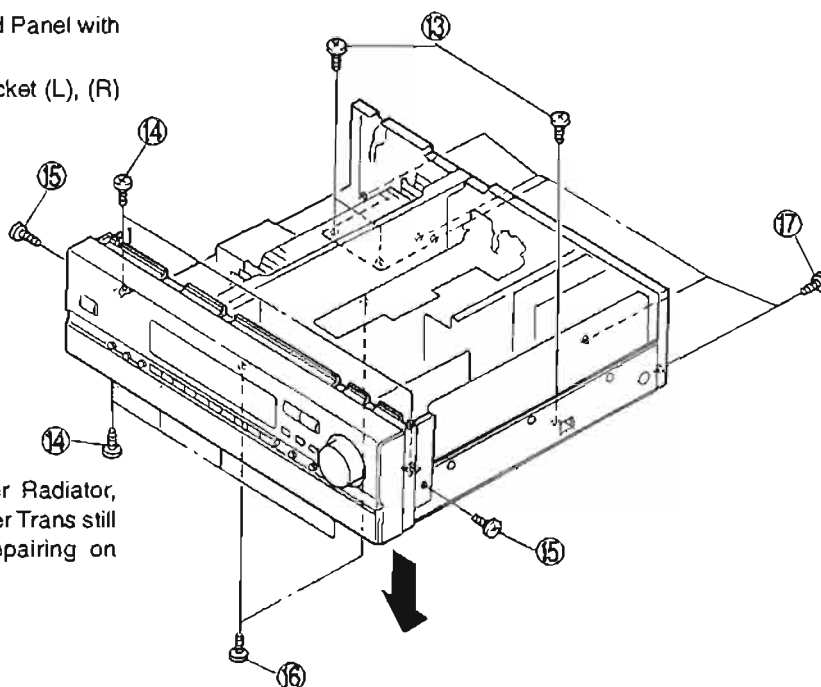
5. Rear Panel

- (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.

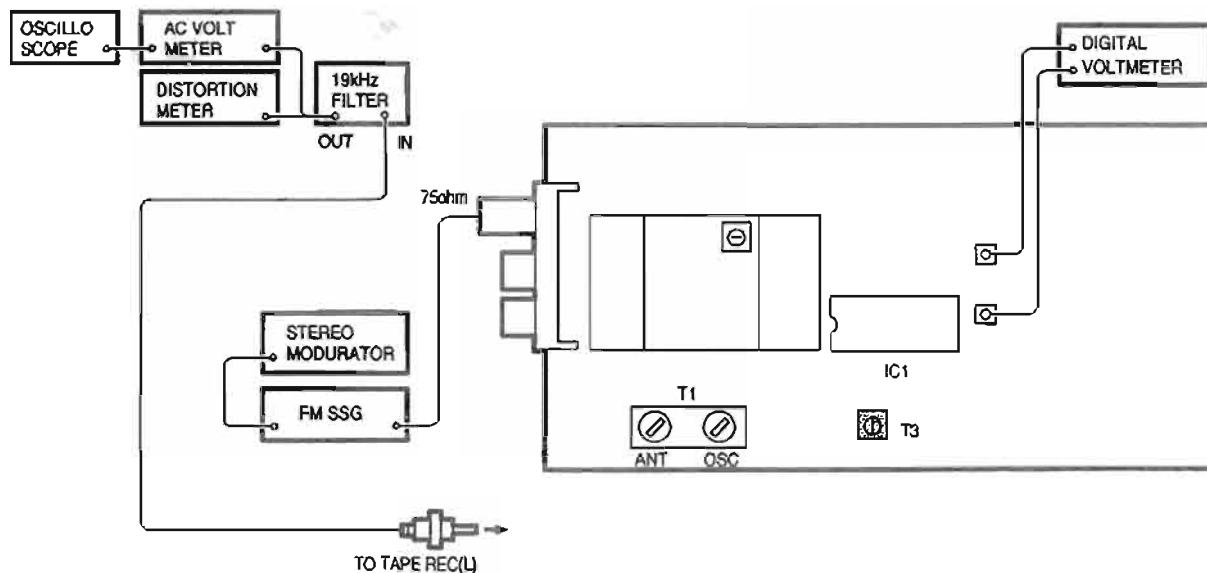


NOTE Then by pulling up, Front Panel, Power Radiator, P.W.B., Rear Panel will be detached Power Trans still remains connected; therefore make repairing on detached Chassis side-up.

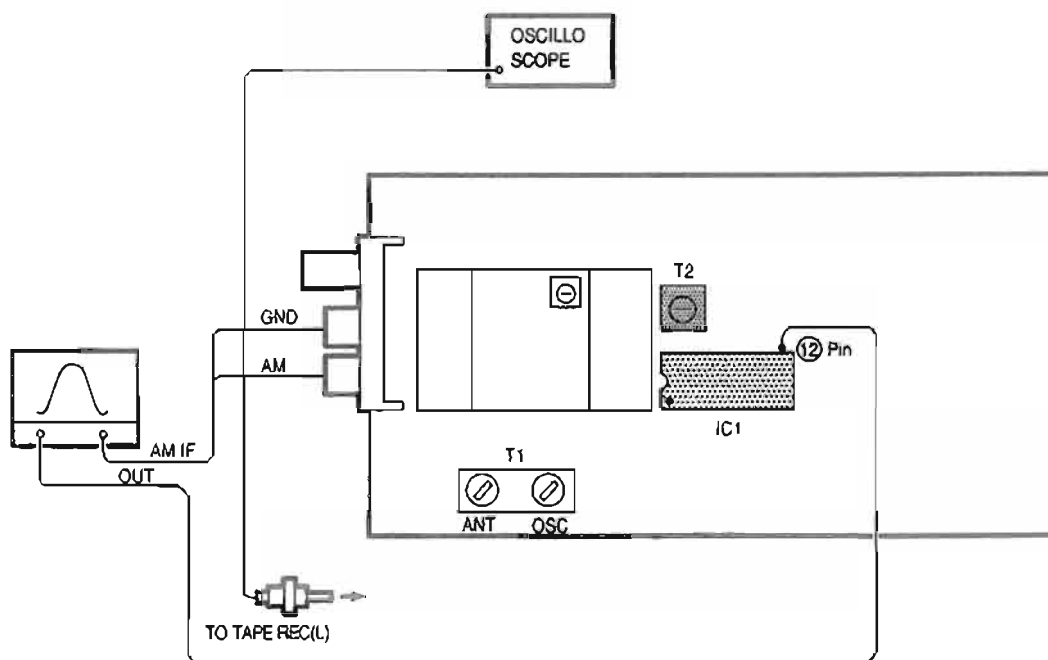
ADJUSTMENT

● 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 | Adjust to | |
| 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 | $\pm 50\text{mV}$ | Function : FM Mode : Auto |

() are Europe and Multi-Voltage Models.

AM ALIGNMENT

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

● AUDIO SECTION

Idling Current (1U-2743-1)

Required measurement equipment: DC Voltmeter

Arrangement

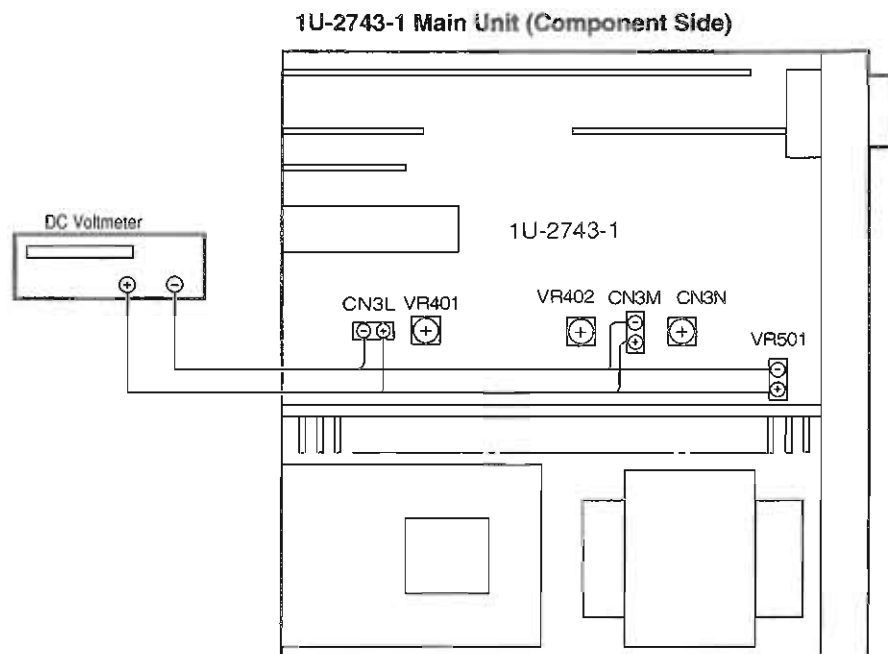
(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C. (59°F ~ 86°F).

(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 $1.5 \text{ mV} \pm 0.5 \text{ mV DC}$.
- (5) After 2 minutes from preset, turn VR401, VR402 and VR501 to set the voltage to $3 \text{ mV} \pm 0.5 \text{ mV DC}$.



● 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.

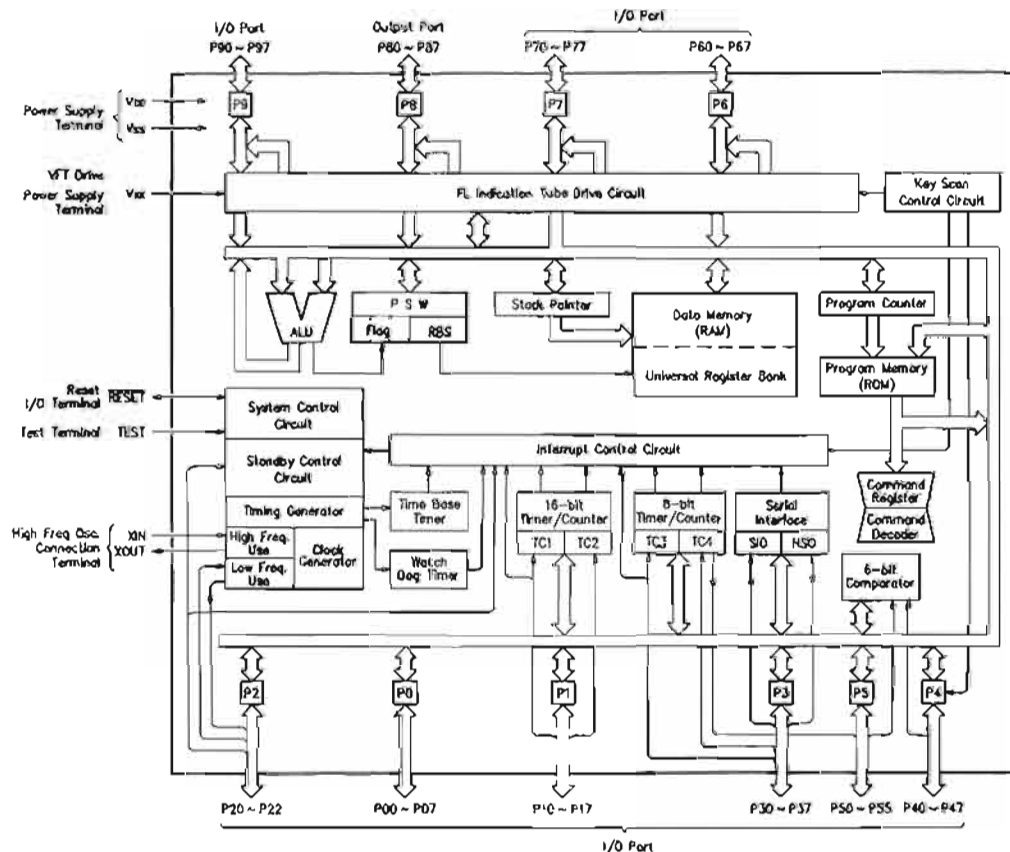
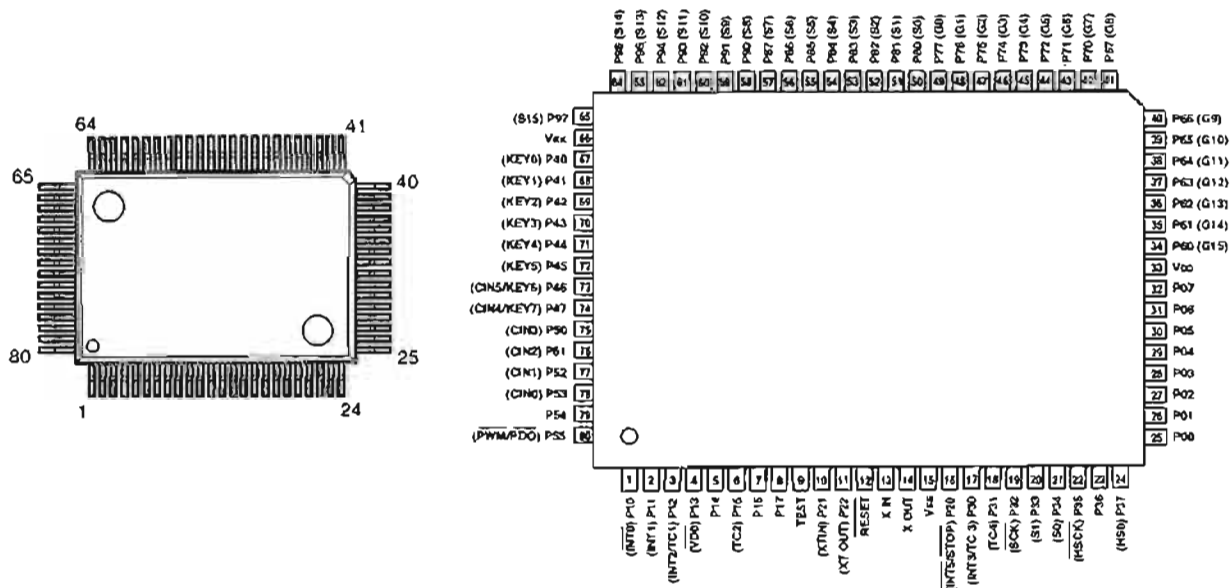
SEMICONDUCTORS

● 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

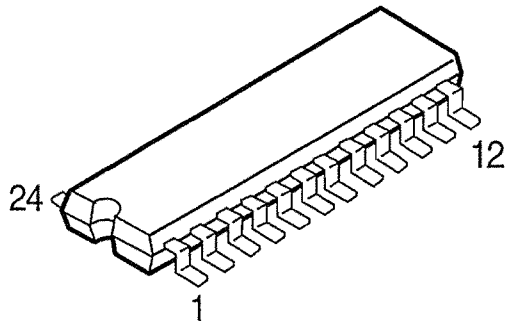
"L" = Outputs Low Level at reset

"Z" = Becomes High Impedance mode at reset.

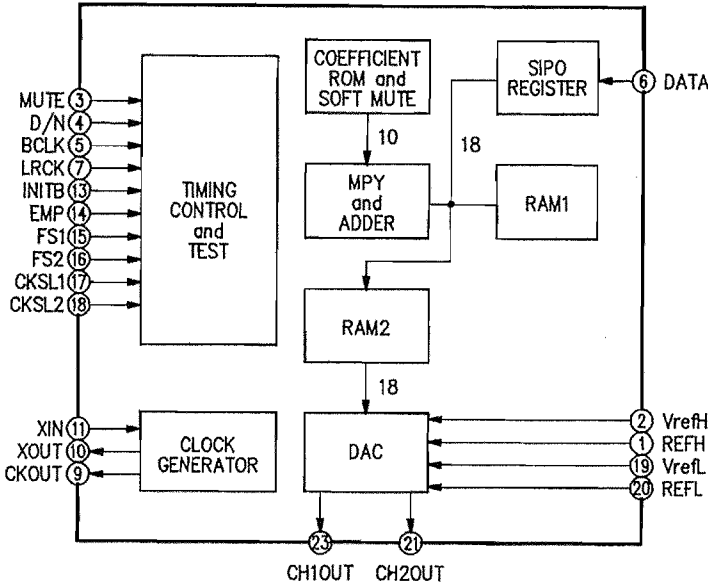
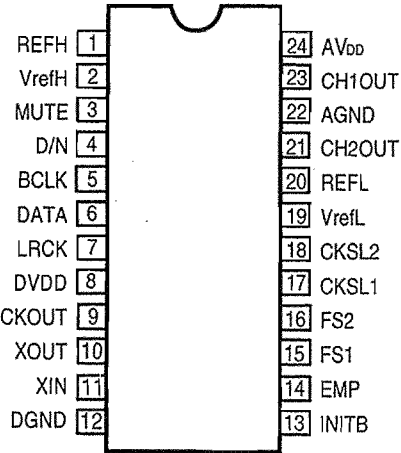
Ini : Initial output state.

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

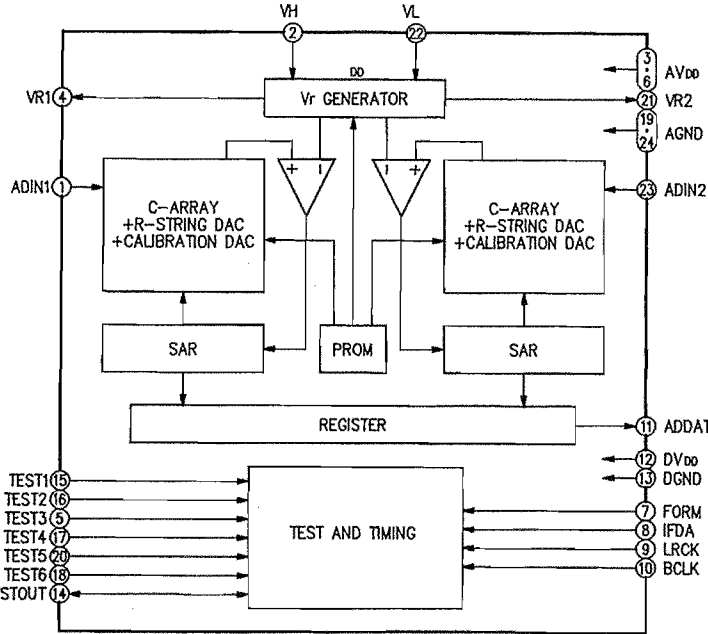
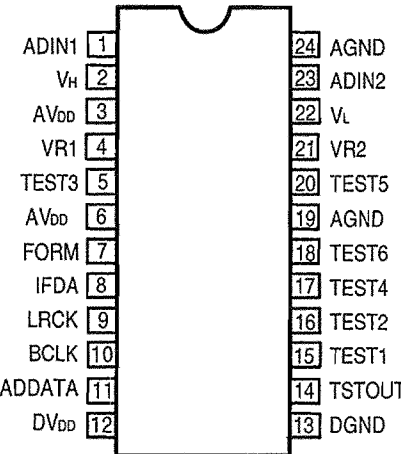
LC78835M (SU: IC210, 211)
LC7886MN (SU: IC207)



LC78835M



LC7886MN



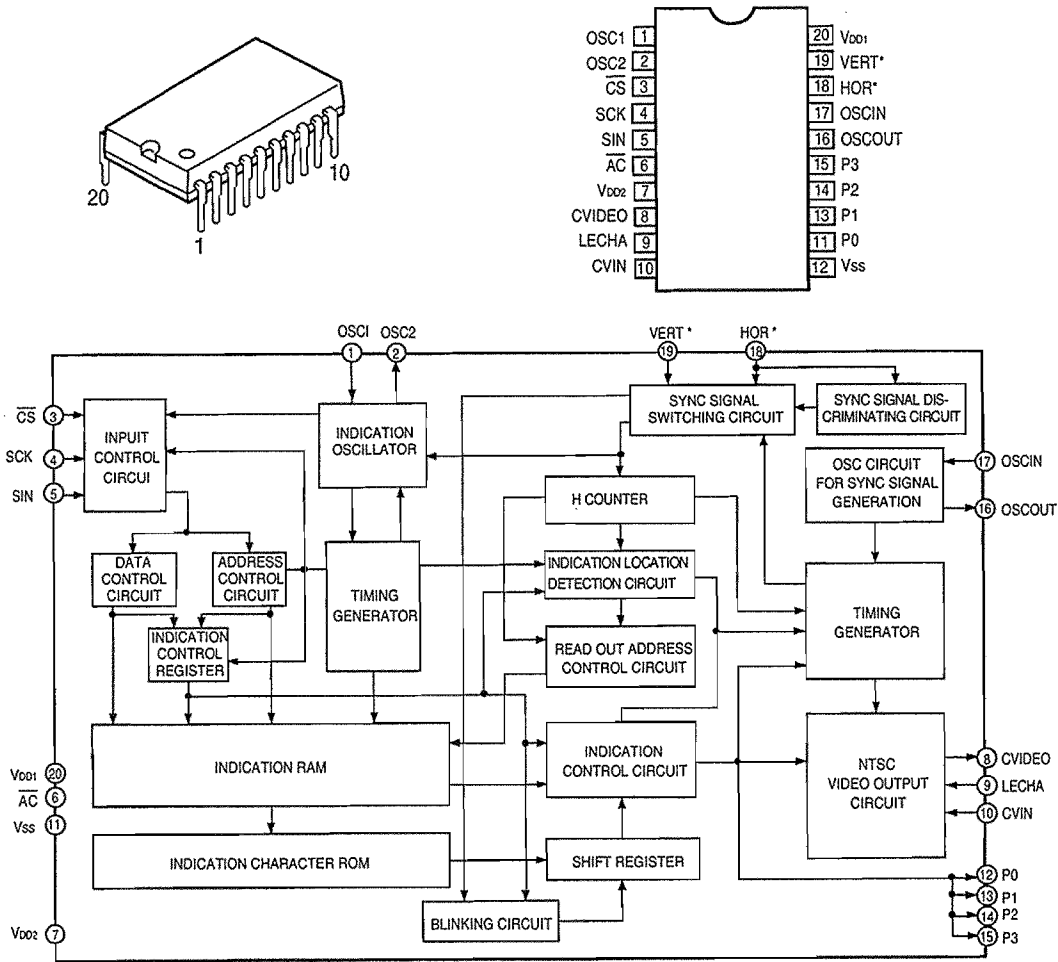
LC78835M Terminal Function

| 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 | <table><tr><td>CKSL1</td><td>CKSL2</td><td>System Clock</td></tr><tr><td>H</td><td>H</td><td>512fs</td></tr></table> | CKSL1 | CKSL2 | System Clock | H | H | 512fs |
| CKSL1 | CKSL2 | | System Clock | | | | | |
| H | H | 512fs | | | | | | |
| 18 | CKSL2 | | | | | | | |
| 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 | Analog GND terminal. |
| 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)

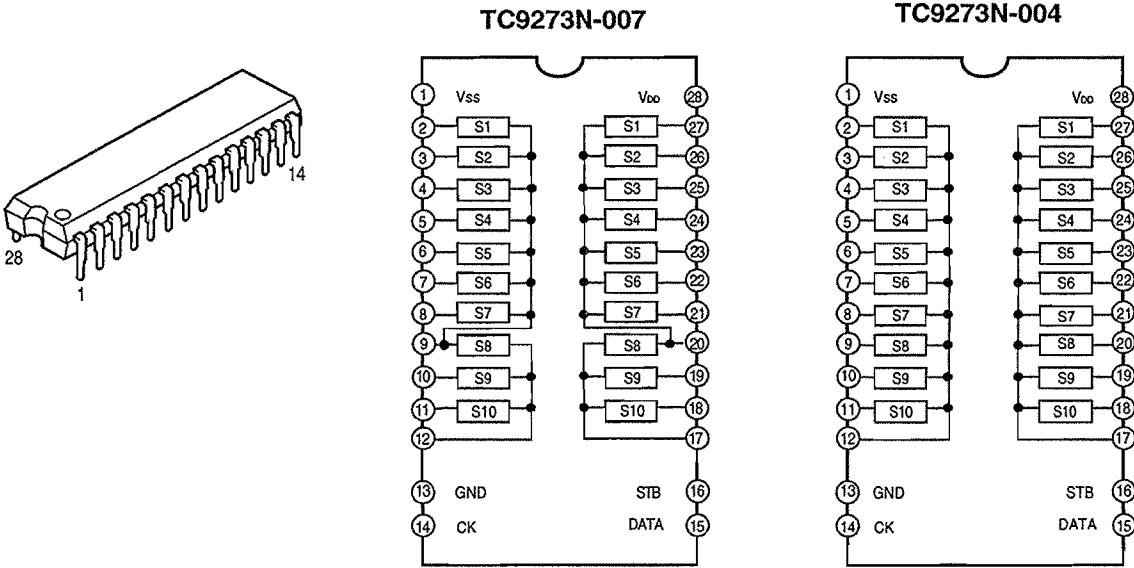


M35012-081SP Terminal Function

| 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 | CS | Chip select input | I | Chip select terminal and turns to "L" when transfer serial data. Hysteresis input. Pull up resistor is built-in. |
| 4 | SCK | Serial clock input | I | Takes in serial data of SIN at SCK rise when CS terminal is in "L". Hysteresis input. Pull up resisist 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 | AC | Auto-clear input | I | Resets internal circuit of IC at "L" mode. Hysteresi input, Pull up resistor is built-in. |
| 7 | VDD2 | Power supply | — | Power supply terminal of analog system. Connect to +5V. |
| 8 | CVIDEO | Combined video output | O | Output terminal of combined video signal. Outputs 2Vp-p combined 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 | VSS | Ground | — | Ground terminal. Connect to GND. |
| 12 | P0 | Output port P0 | O | General output or character background signal BL NK1* output is switchable. Polarity can be selected at ROM mask. |
| 13 | P1 | Output port P1 | O | General output or character background signal CO1* output is switchable. Polarity can be selected at ROM mask. |
| 14 | P2 | Output port P2 | O | General output or character background signal BLNK2* output is switchable. Polarity can be selected at ROM mask. |

| 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 | VDD1 | Power supply | — | Power supply terminal of digital system. Connect to +5V. |

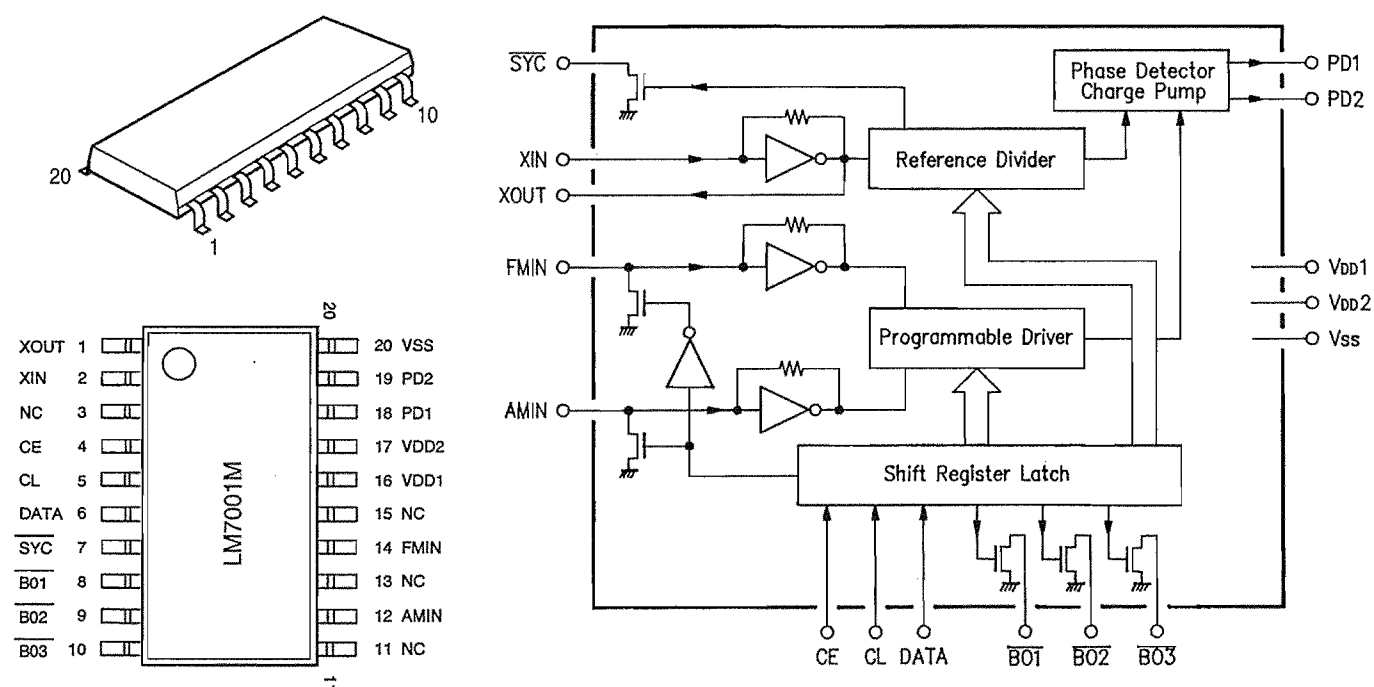
TC9273N-007 (SU: IC103)
TC9273N-004 (SU: IC104)



TC9273N Terminal Function

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

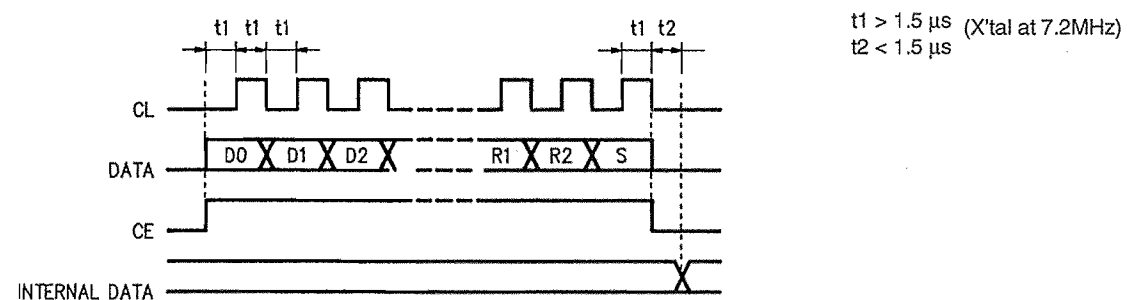
LM7001M
(FL: IC003)



Terminal Description

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

Data input



← Input from D0.

| | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|
| D0 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 | D12 | D13 | T0 | T1 | B0 | B1 | B2 | TB | R0 | R1 | R2 | S |
|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|

(1) D0 (LSB)~D13 (MSB) :Frequency dividend data

For FMIN, use D0~D13; for AMIN, use D4~D13.

| | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| D0 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 | D12 | D13 |
|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|

→ FMIN Frequency dividend number = 14853

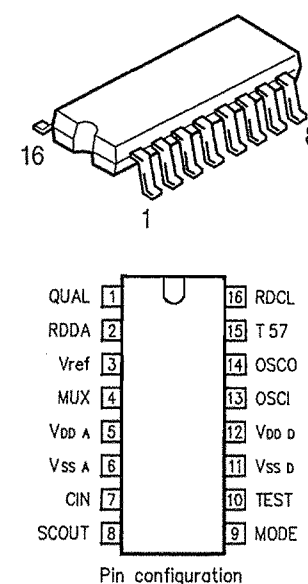
LSB MSB

→ AMIN Frequency dividend number = 928

LSB MSB

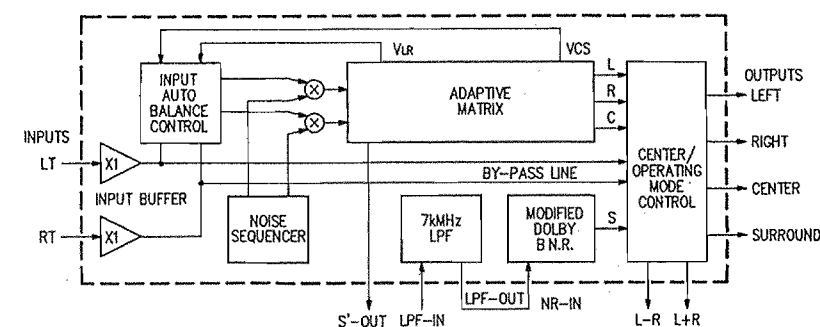
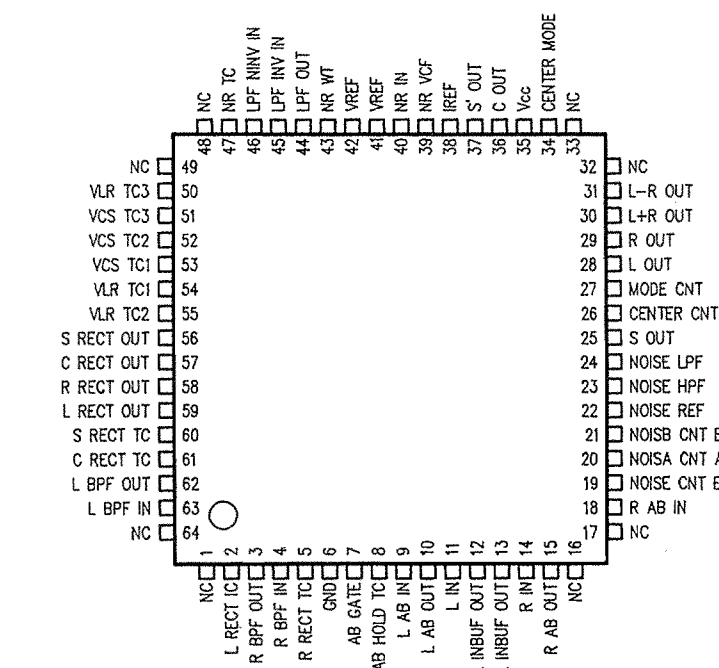
(2) T0, T1 : For test of LSI(0,0)

SAA6579T (MA: IC703)

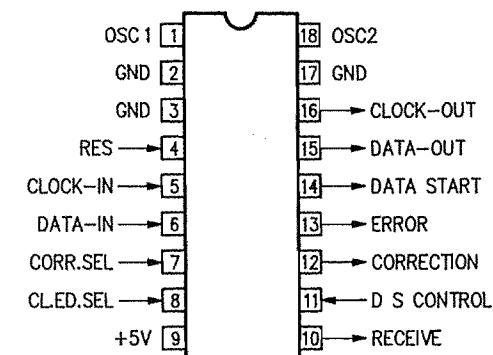
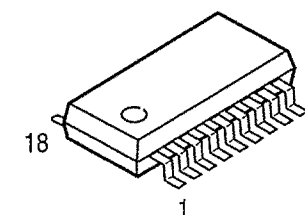


| Pin No. | Symbol | Description |
|---------|------------------|---|
| 1 | QUAL | Quality indication output. |
| 2 | RDDA | RDS data output. |
| 3 | V _{ref} | Reference voltage output (0.5 V _{DDA}). |
| 4 | MUX | Multiplex signal input. |
| 5 | V _{DDA} | +5V supply voltage for analog part. |
| 6 | V _{SSA} | 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 | V _{SSD} | Ground for digital part (0V). |
| 12 | V _{DDD} | +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. |

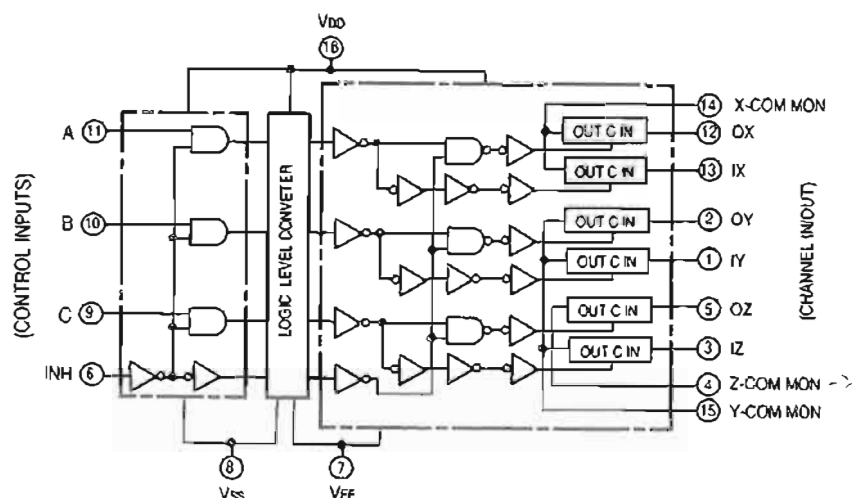
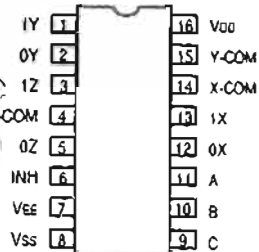
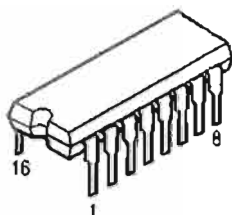
DDSC-A (SU: IC201)



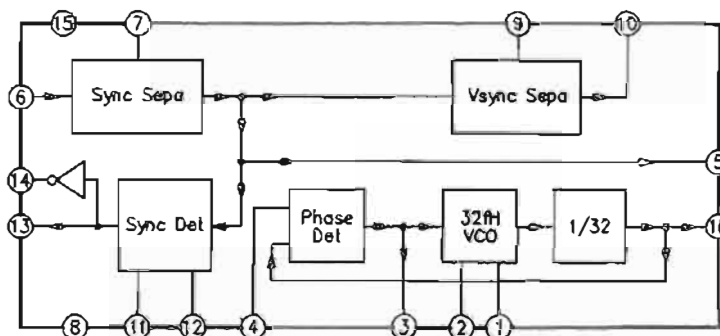
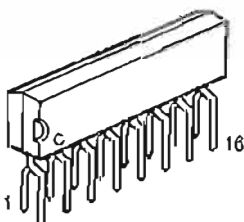
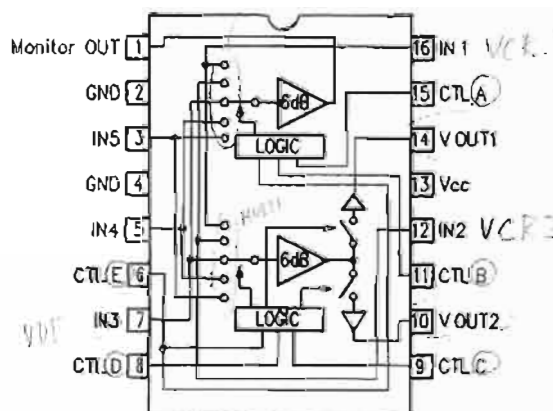
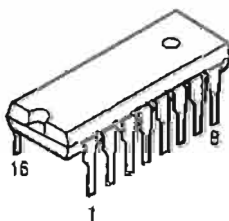
LC7074M (MA: IC702)



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 |

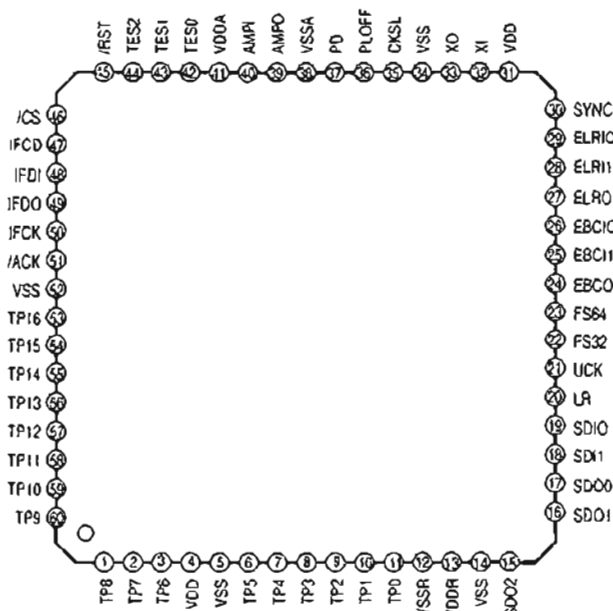
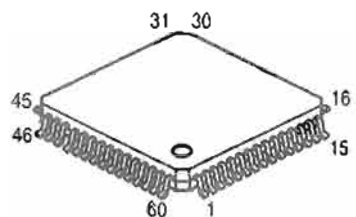
| C | D | E | V OUT 2 |
|---|---|---|---------|
| L | L | * | IN 1 |
| H | L | * | — |
| L | H | * | IN 3 |
| H | H | L | IN 4 |
| H | H | H | IN 5 |

Note 1: * mark means that feasible for either H or L.

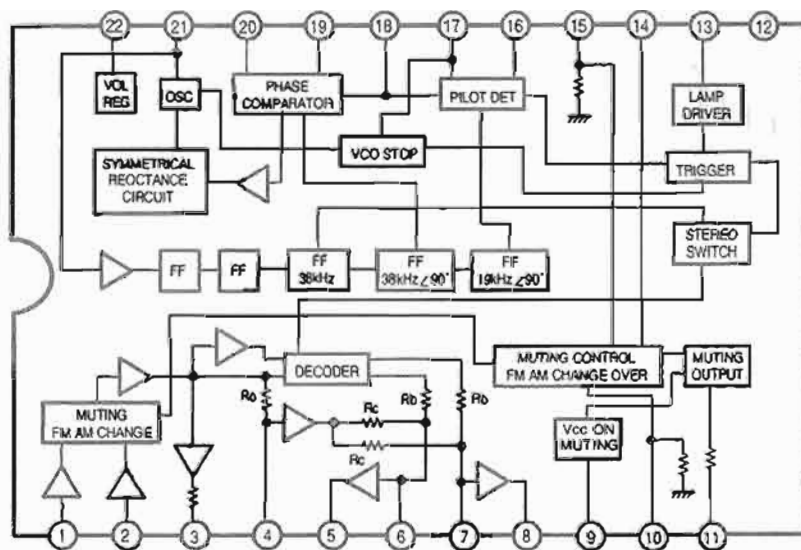
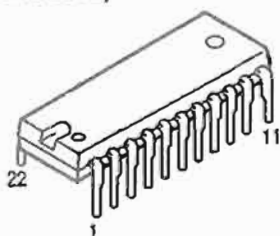
Note 2: Each input terminal is provided with sink chip clamp (BA7625).

Each input terminal takes 20kohm at the end (BA7626).

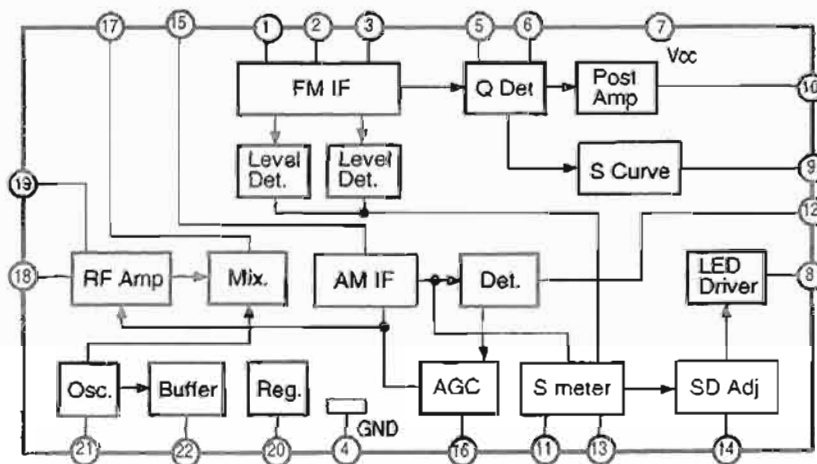
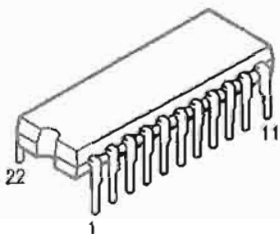
DDSC-D
(SU: IC208)



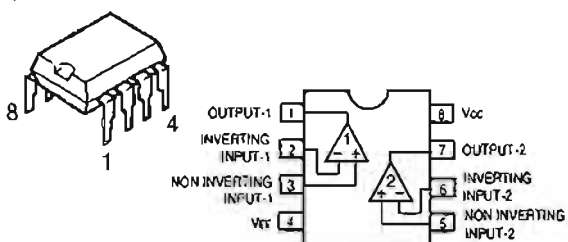
LA3401
(FL: IC002)



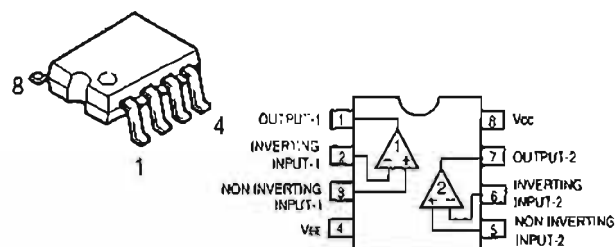
LA1265 (S)
(FL: IC001)



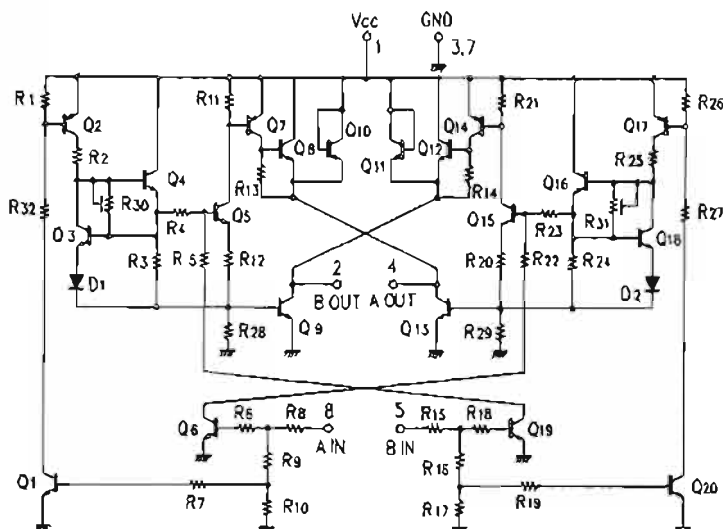
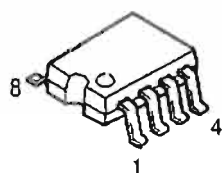
BA15218
(FL: IC565)
(SU: IC102)



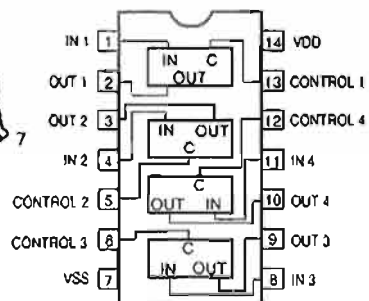
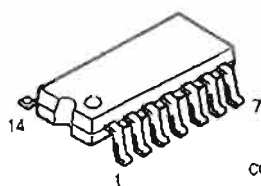
BA4558F (SU: IC101, 106, 205, 302, 304, 307, 308)
BA15218F (SU: IC305)



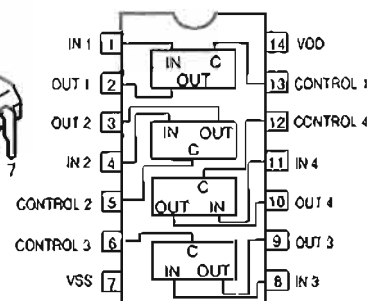
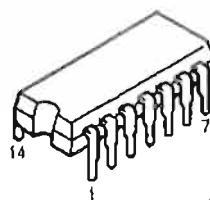
BA6208F (SU: IC306)



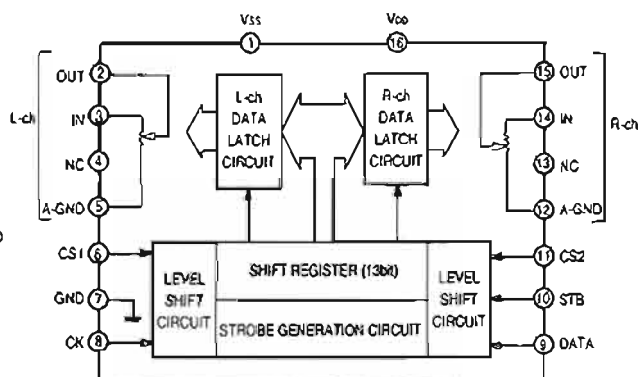
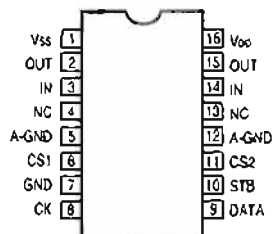
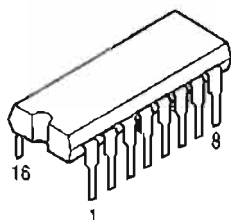
BU4066BCF (SU: IC202)



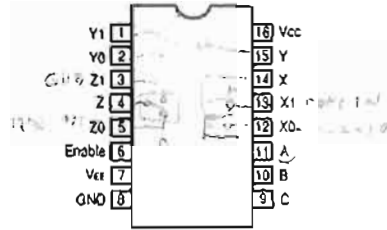
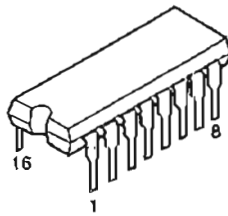
LC4966 (SU: IC213)



TC9299P (SU: IC301, 303)



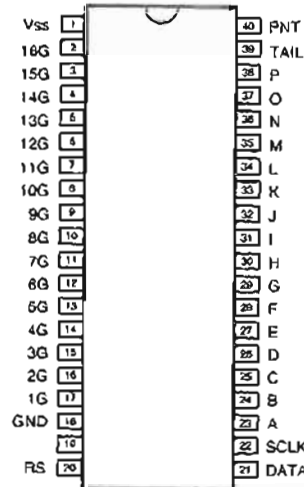
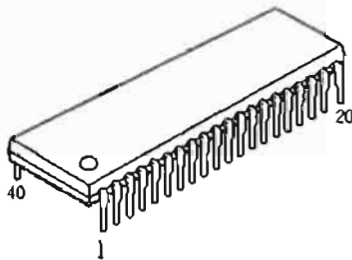
MC74HC4053N (SV: IC903)



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

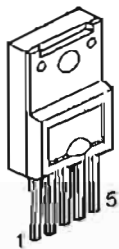
X = Don't Care

MSC1937-03RS (FL: IC751)



| Pin No. | Terminal Function |
|---------|--------------------|
| 1 | Power Supply (+5V) |
| 3 | Digit 1 Output |
| 4 | 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)



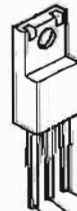
1. +IN
2. IN
3. VEE
4. Output
5. +Vcc

NJM7915FA (FL: IC654)



Output
Input
GND

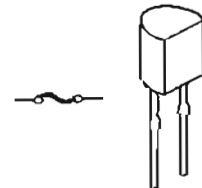
NJM7805FA(S), MCT7805CT (SU: IC203,204)
MC7806CT, MCT7806CT, NJM7806FA(S)
(FL: IC601)(SU: IC803)
NJM7806FA(S) (SV: IC806)
NJM7812FA(S) (FL: IC005)
NJM7815FA(S) (FL: IC803)
NJM7820FA(S) (FL: IC653)



Output
GND
Input

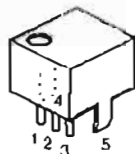
IC PROTECTOR

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



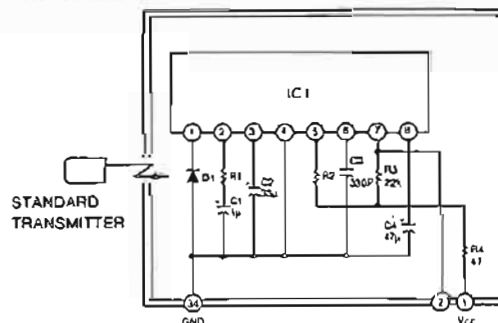
OTHERS

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



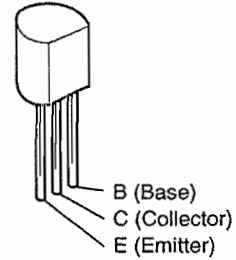
1. Vcc
2. Output
3. GND
4. Case Fin
5. Case Fin

STANDARD TRANSMITTER

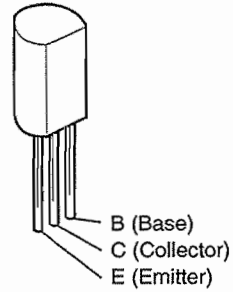


● TRANSISTORS

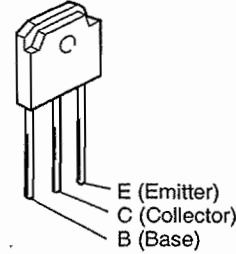
2SA970 (BL)
2SA988 (E/F)
2SA1015 (G/R),(GR/Y)
2SC1815(Y),(BL)
2SC1841 (E/F)
2SC2878 (A/B)



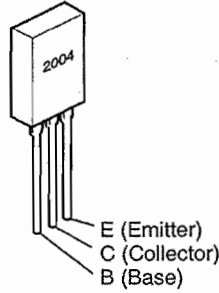
2SB1041 (R)
2SD1292 (R)



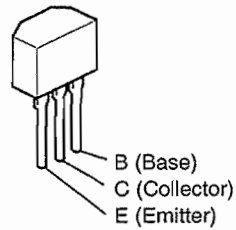
2SA1491 (O/P/Y)(Z)
2SC3855 (O/P/Y)(Z)



2SB1328 (P)
2SD2004 (P)

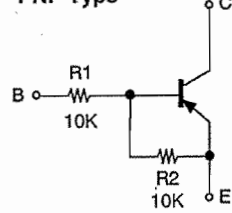


DTA114ES
DTC114ES
DTC144ES



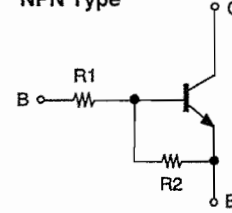
DTA114ES

PNP Type



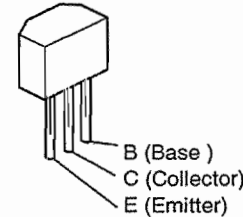
DTC114ES
DTC144ES

NPN Type

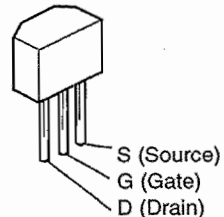


| | R1 | R2 |
|----------|--------|--------|
| DTC114ES | 10kohm | 10kohm |
| DTC144ES | 47kohm | 47kohm |

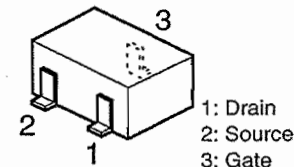
2SC933S (S)
2SC1740S (E)



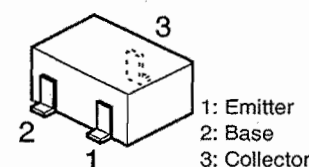
2SK184 (GR)/(BL)



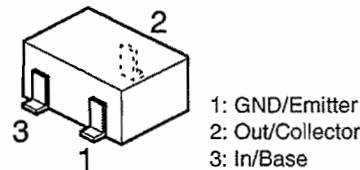
2SK209 (Y/GR)



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

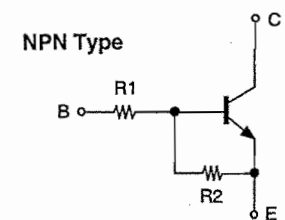


DTA114TK
DTA144EK
DTC143TK
DTC144EK
DTC323TK
RN2402



DTC143TK
DTC144EK
DTC323TK

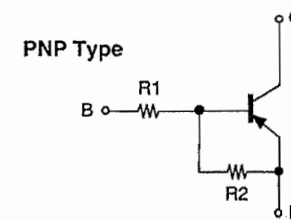
NPN Type



| | R1 | R2 |
|----------|---------|--------|
| DTC143TK | 4.7kohm | — |
| DTC144ES | 47kohm | 47kohm |
| DTC323TK | 2.2kohm | — |

RN2402
DTA114TK
DTA144EK

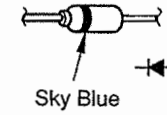
PNP Type



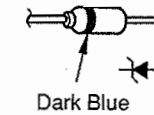
| | R1 | R2 |
|----------|--------|--------|
| RN2402 | 47kohm | 47kohm |
| DTA114TK | 10kohm | — |
| DTA144EK | 47kohm | 47kohm |

● DIODES (included LED)

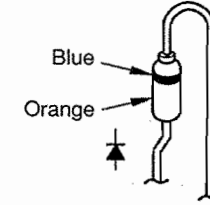
1SS270A
1S2076A



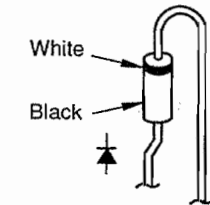
MTZJ3.3A MTZJ8.2A
MTZJ5.1A MTZJ13A
MTZJ7.5A MTZJ18A



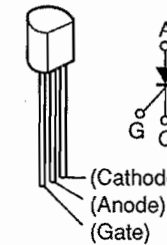
1SR35-200A



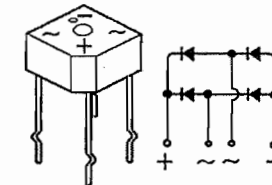
DSM1D2 (Type 3)



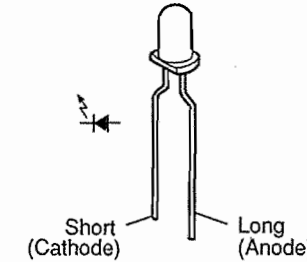
SFOR1A42
(Thyristor)
(MA: SC601)



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



SEL1210S (Red)
(FL: LD751)

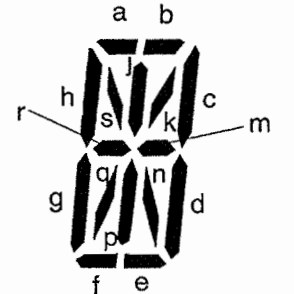
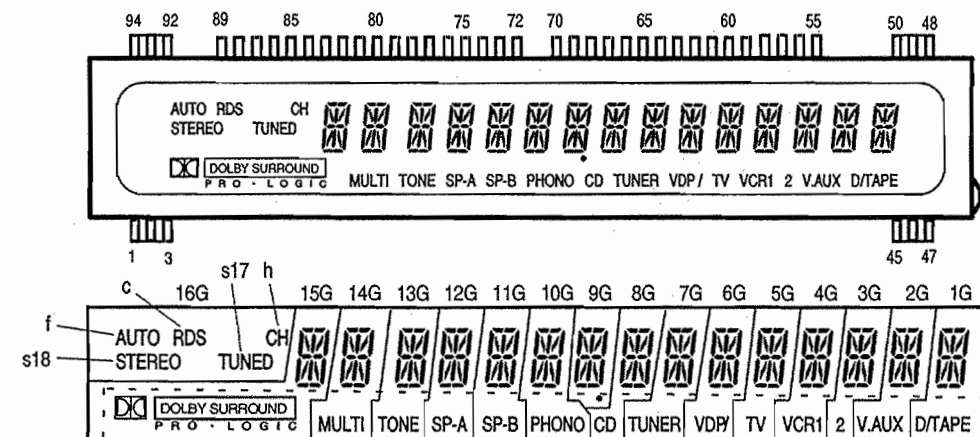


● POSISTOR

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. | | | | | | | | | | | | | | |
| ELECTRODE | | | | | | | | | | | | | | |

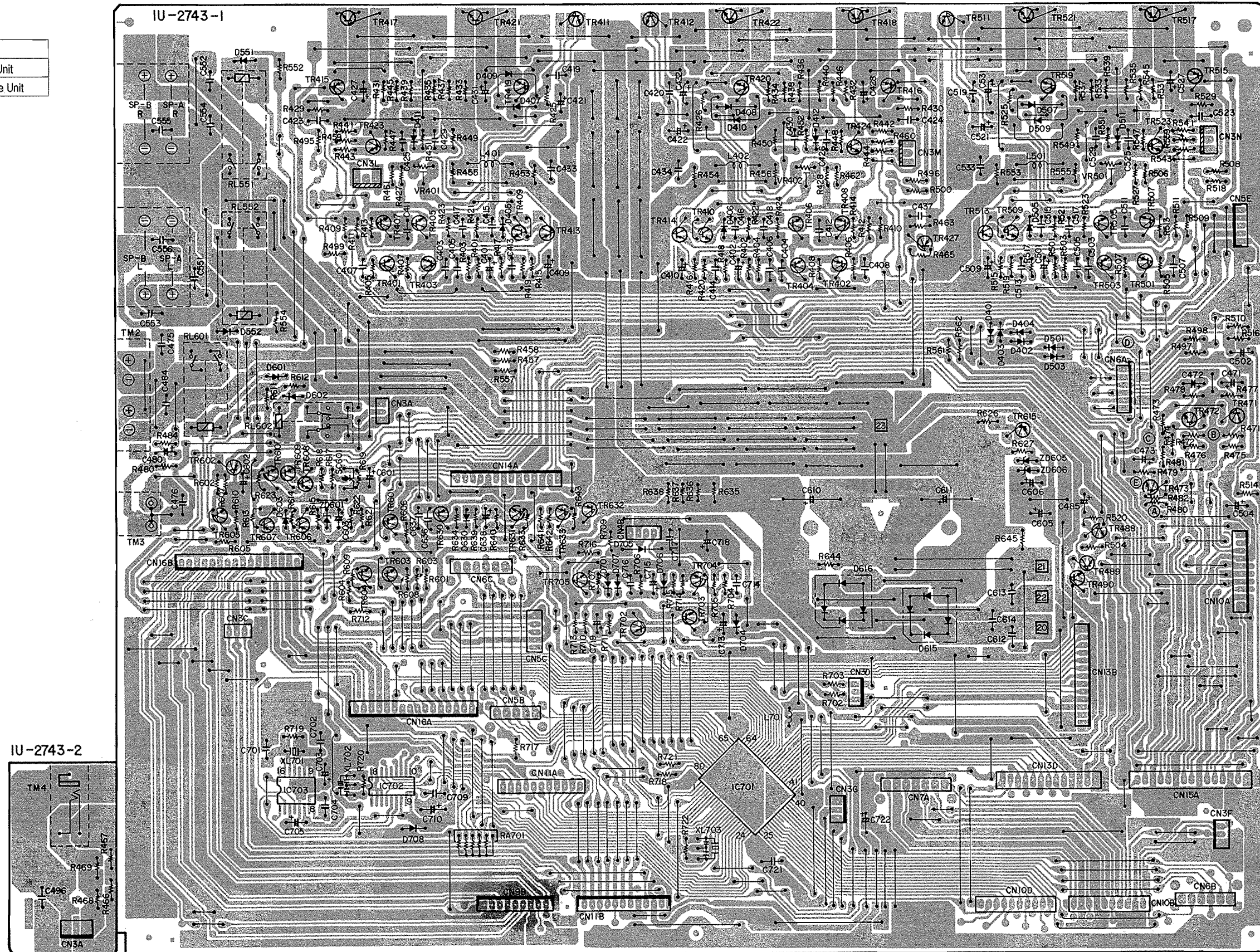
(LOWER)

| TERMINAL No. | | | | | | | | | | | | | | |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| ELECTRODE | | | | | | | | | | | | | | |
| TERMINAL No. | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| ELECTRODE | 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

E

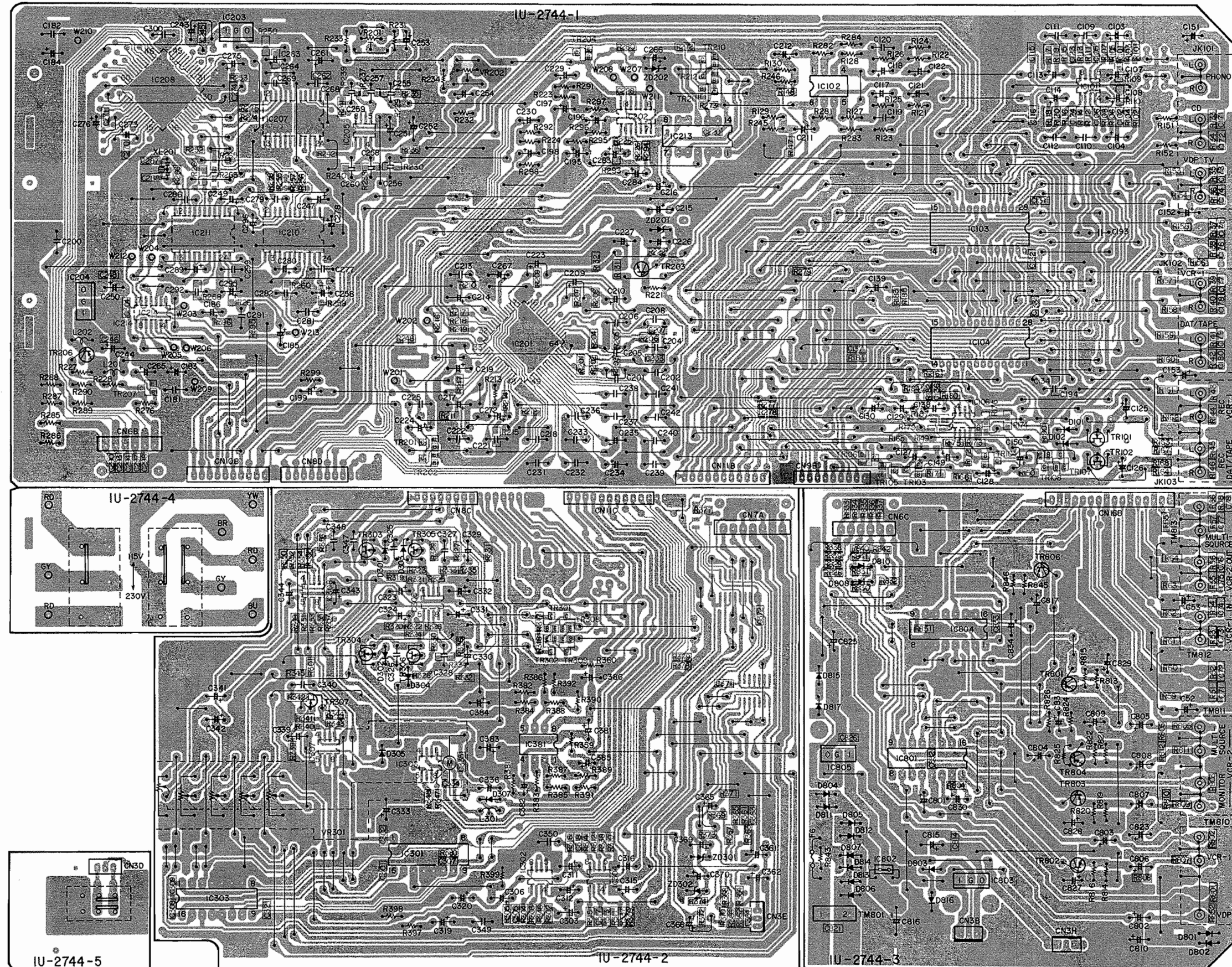
| | |
|---------|-----------------|
| 1U-2743 | |
| 1 | Main Amp Unit |
| 2 | Head Phone Unit |



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

A

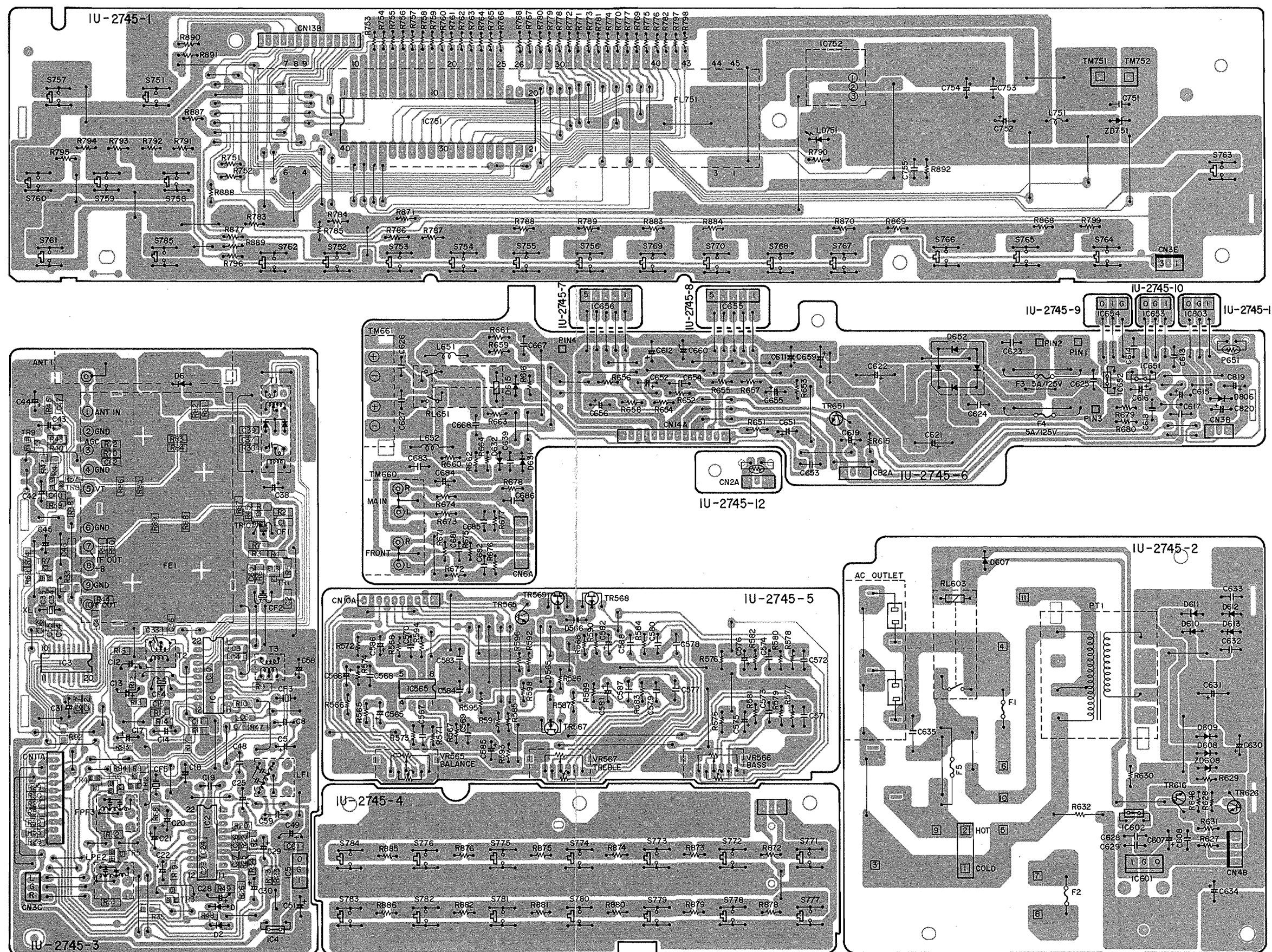
| 1U-2745 | |
|---------|-------------------|
| 1 | FLD Unit |
| 2 | Power Supply Unit |
| 3 | Tuner Unit |
| 4 | Tact Switch Unit |
| 5 | Tone Unit |
| 6 | Rear Amp. Unit |

B

C

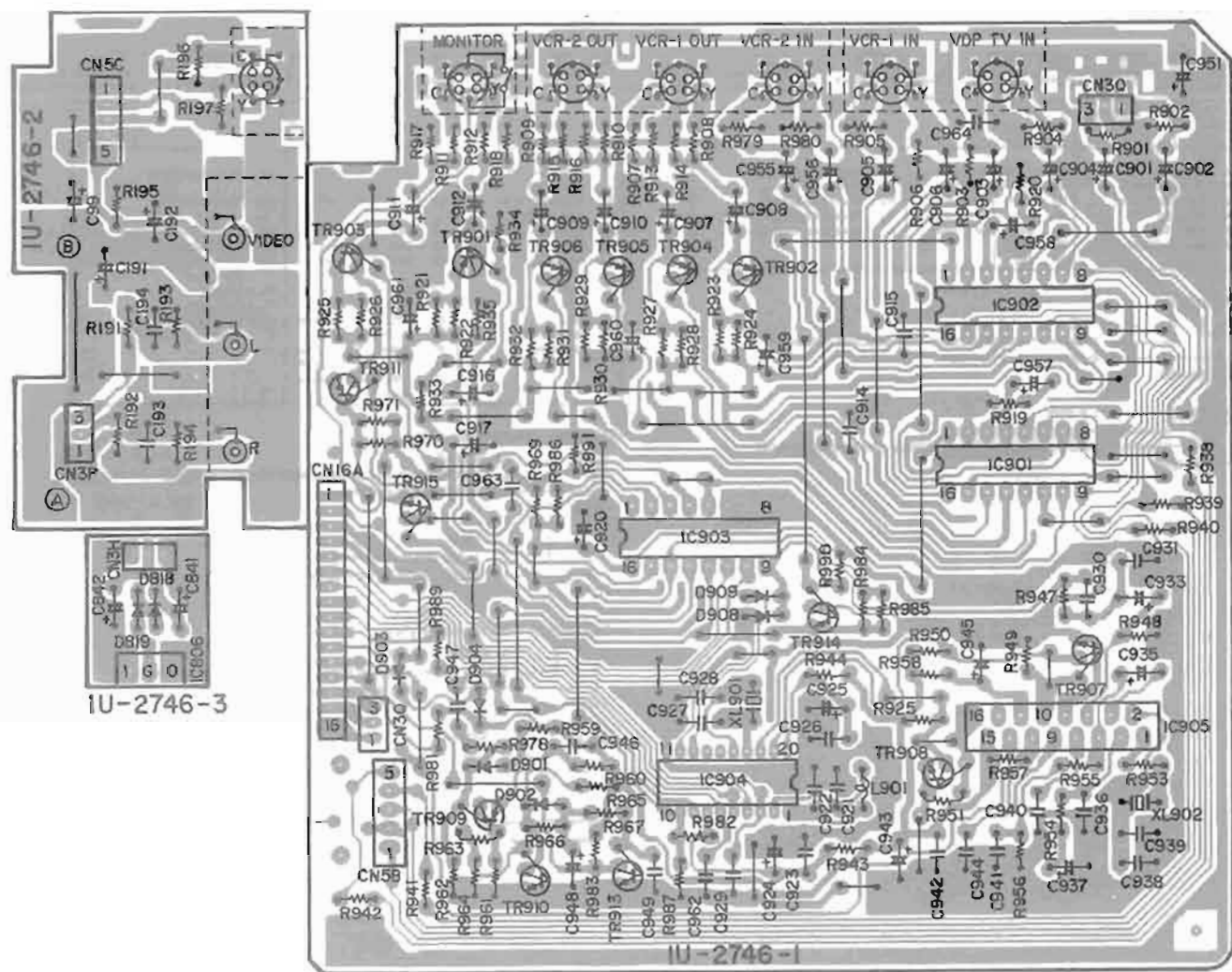
D

E



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 $\pm 5\%$, 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 |

| | | | |
|-----------------------|-----------|----------------|--------------------------|
| RO : Carbon | 2B : 1/8W | F : $\pm 1\%$ | P : Pulse-resistant type |
| RC : Composition | 2C : 1/4W | G : $\pm 2\%$ | NL : Low noise type |
| RS : Metal oxide film | 2H : 1/2W | J : $\pm 5\%$ | NR : Non-burning type |
| RW : Winding | 3A : 1W | K : $\pm 10\%$ | PR : Pulse-resistor |
| RM : Metal film | 3D : 2W | M : $\pm 20\%$ | F : Lead wire forming |
| RL : Metal inductance | 3F : 3W | | |

• Resistance

$\frac{1}{1} \frac{8}{2} = 1600 \text{ ohm} = 1.6 \text{ kohm}$
Indicates number of zeros after effective number.
2-digit effective number.

• Units: ohm

$\frac{1}{1} \frac{R}{2} = 1.2 \text{ ohm}$
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 : 8.2V | F : $\pm 1\%$ | HS : High stability type |
| CA : Aluminum solid electrolytic | 1A : 16V | G : $\pm 2\%$ | BP : Non-leak type |
| CS : Tantalum electrolytic | 1C : 16V | J : $\pm 5\%$ | HR : Ripple-resistant type |
| CG : Film | 1E : 25V | K : $\pm 10\%$ | DL : For charge and discharge |
| CK : Ceramic | 1Y : 36V | M : $\pm 20\%$ | HF : For assuring high frequency |
| CC : Ceramic | 1H : 50V | Z : $\pm 30\%$ | U : UC part |
| CP : Oil | 2A : 160V | -20% | C : CSA part |
| CM : Mica | 2B : 125V | P : $\pm 100\%$ | W : UL-CSA type |
| CF : Metallized | 2C : 160V | -0% | F : Lead wire forming |
| CH : Metallized | 2D : 200V | C : $\pm 0.25\mu\text{F}$ | |
| | 2E : 350V | D : $\pm 0.5\mu\text{F}$ | |
| | 2H : 500V | - | |
| | 2J : 630V | - | |

• Capacity (electrolyte only)

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

• Units: μF

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

• Units: μF

• Capacity (except electrolyte)

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

• Units: pF

$\frac{2}{2} \frac{2}{2} \frac{1}{1} = 220\text{pF}$
(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

| Ref. No. | Parts No. | Parts Name | Remarks |
|----------------------|--------------|-------------------------|-------------------|
| SEMICONDUCTORS GROUP | | | |
| IC701 | 262 2020 003 | IC TMP67GP1F-4206 | µ-ops |
| IC702 | 262 1829 908 | IC LC7074M | |
| IC703 | 262 1701 906 | IC 5AA6578T | |
| TR401-404 | 271 0094 919 | Transistor 2SA970(BL) | Built in Resistor |
| TR405-410 | 273 0235 923 | Transistor 2SC1841(E/F) | |
| TR411,412 | 273 0198 002 | Transistor 2SC1815(Y) | |
| TR413,414 | 271 0131 924 | Transistor 2SA968(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 2SA968(E/F) | |
| TR471-473 | 273 0253 918 | Transistor 2SC2075(A/B) | |
| TR480 | 269 0020 906 | Transistor DTC114ES | |
| TR489 | 269 0049 906 | Transistor DTA114ES | |
| TR490 | 269 0020 906 | Transistor DTC114ES | |
| TR501 | 271 0094 919 | Transistor 2SA970(BL) | Built in Resistor |
| 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 2SA968(E/F) | |
| TR515 | 272 0107 906 | Transistor 2SB1328(P) | |
| TR519 | 274 0151 000 | Transistor 2SD2004(P) | |
| TR529 | 273 0235 923 | Transistor 2SC1841(E/F) | |
| TR601-606 | 273 0388 906 | Transistor 2SC1740S(E) | Built in Resistor |
| TR607 | 271 0192 905 | Transistor 2SA939S(S) | |
| TR608 | 273 0388 906 | Transistor 2SC1740S(E) | |
| TR609 | 271 0192 905 | Transistor 2SA939S(S) | |
| TR610 | 273 0388 906 | Transistor 2SC1740S(E) | |
| TR615 | 272 0131 901 | Transistor 2SB1041(F) | |
| TR630 | 271 0192 905 | Transistor 2SA939S(S) | |
| TR631 | 273 0388 906 | Transistor 2SC1740S(E) | |
| TR632,633 | 271 0131 924 | Transistor 2SA968(E/F) | |
| TR700 | 269 0049 906 | Transistor DTA114ES | Built in Resistor |
| TR703 | 269 0049 902 | Transistor DTC114ES | |
| TR704 | 273 0388 906 | Transistor 2SC1740S(E) | Built in Resistor |
| TR705 | 269 0020 906 | Transistor DTC114ES | |
| DA01-406 | 279 0432 903 | Diode 1SS275A | Diode |
| DA07-410 | 279 0049 914 | Diode 1SS276A | |
| DA11,412 | 279 0432 903 | Diode 1SS275A | |
| DA01 | 279 0432 903 | Diode 1SS275A | |
| DA03 | 279 0432 903 | Diode 1SS275A | |
| DA05 | 279 0432 903 | Diode 1SS275A | |
| DA07 | 279 0049 914 | Diode 1SS276A | |
| DA09 | 279 0049 914 | Diode 1SS276A | |
| DA11 | 279 0432 903 | Diode 1SS275A | |
| DA01,352 | 279 0432 903 | Diode 1SS275A | |
| DA01-409 | 279 0432 903 | Diode 1SS275A | Diode |
| DA01,410 | 279 0049 914 | Diode 1SS276A | |
| DA03 | 279 0432 903 | Diode 1SS275A | |
| DA05 | 279 0432 903 | Diode 1SS275A | |
| DA07 | 279 0049 914 | Diode 1SS276A | |
| DA09 | 279 0049 914 | Diode 1SS276A | |
| DA11 | 279 0432 903 | Diode 1SS275A | |
| DA01,352 | 279 0432 903 | Diode 1SS275A | |
| DA01-409 | 279 0432 903 | Diode 1SS275A | |
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| DA05 | 279 0432 903 | Diode 1SS275A | |
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| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
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| DA01,352 | 279 0432 903 | Diode | |
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| DA01,352 | 279 0432 903 | Diode | |
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| DA07 | 279 0049 914 | Diode | |
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| DA09 | 279 0049 914 | Diode | |
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| DA01,410 | 279 0049 914 | Diode | |
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| DA01,410 | 279 0049 914 | Diode | |
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| DA01,352 | 279 0432 903 | Diode | |
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| DA01,352 | 279 0432 903 | Diode | |
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| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
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| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
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| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
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| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA01,410 | 279 0049 914 | Diode | |
| DA03 | 279 0432 903 | Diode | |
| DA05 | 279 0432 903 | Diode | |
| DA07 | 279 0049 914 | Diode | |
| DA09 | 279 0049 914 | Diode | |
| DA11 | 279 0432 903 | Diode | |
| DA01,352 | 279 0432 903 | Diode | |
| DA01-409 | 279 0432 903 | Diode | |
| DA0 | | | |

| Ref. No. | Parts No. | Parts Name | Remarks | Ref. No. | Parts No. | Parts Name | Remarks | Qty |
|----------|--------------|---------------------------|------------------|------------|--------------|-------------------------|------------|-----|
| C423,424 | 253 1128 909 | Ceramic Cap. 220pF/500V | CK45B2H221K | OTHER : | | | | |
| C425,426 | 253 1181 904 | Ceramic Cap. 0.01µF/50V | CK45F1H100Z | (PW Board) | | | | |
| C427,428 | 254 4252 917 | Electrolytic 10µF/63V | CE04W1J100M | L401,402 | 235 0098 004 | Inductor 1µH | | 2 |
| C429,430 | 256 1042 903 | Metalized 0.1µF/250V | CF93A2E104K | L501 | 235 0098 004 | Inductor 1µH | | 1 |
| C431,432 | 254 4252 917 | Electrolytic 10µF/63V | CE04W1J100M | L701 | 235 0090 969 | Inductor 120µH | | 1 |
| C433,434 | 256 1042 903 | Metalized 0.1µF/250V | CF93A2E104K | RL551,552 | 214 8003 005 | Relay | | 2 |
| C437 | 255 1265 936 | Mylar Film 0.01µF/50V | CQ33MH103JB | RL501 | 214 0167 005 | Relay(G5Z-2A) | | 1 |
| C471-473 | 254 4250 980 | Electrolytic 10µF/50V | CE04W1H100M | RL502 | 214 0127 003 | Relay(RY-12W) | | 1 |
| C475,476 | 253 1181 904 | Ceramic Cap. 0.01µF/50V | CK45F1H100Z | XL701 | 399 0178 007 | Crystal 4.332 MHz | | 1 |
| C480 | 254 4254 938 | Electrolytic 47µF/16V | CE04W1G470M | XL702,703 | 399 0191 903 | Ceramic Resonator | CST4.00MGW | 1 |
| C486 | 253 9039 905 | BC Ceramic Cap. 0.1µF/25V | CK45-1E104Z | | | | | |
| C501 | 254 4280 980 | Electrolytic 10µF/50V | CE04W1H100M | | | | | |
| C502 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1G100M | | | | | |
| C503 | 253 1179 945 | Ceramic Cap. 220pF/50V | CK45B1H221K | | | | | |
| C504 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1G100M | | | | | |
| C506 | 253 1179 987 | Ceramic Cap. 470pF/50V | CK45B1H471K | | 205 0472 013 | 6 P SP Terminal | | 1 |
| C507 | 255 1264 966 | Mylar Film 0.0033µF/50V | CQ33MH103JB | | 204 8394 004 | Headphone Jack | | 1 |
| C509 | 254 4256 949 | Electrolytic 100µF/25V | CE04W1E101M | | 205 0092 003 | 4 P Push Terminal | | 1 |
| C511 | 253 4474 908 | Ceramic Cap. 15pF/500V | CC45SL2H150J | | 205 0015 002 | 2 P Connector Base | | 1 |
| C513 | 253 4636 941 | Ceramic Cap. 15pF/50V | CC45SL1H150J | CK3L,M,N | 205 0190 036 | 3 P NH Conn. Base | | 3 |
| C515 | 255 1265 936 | Mylar Film 0.01µF/50V | CQ33MH103JB | CN5B | 205 0696 051 | JL Connector (BT-E) | | 1 |
| C517 | 255 1264 940 | Mylar Film 0.0022µF/50V | CQ33MH1222JB | CN5B,C | 205 0696 064 | JL Connector (BT-E) | | 2 |
| C519 | 253 1181 904 | Ceramic Cap. 0.01µF/50V | CK45F1H100Z | CN7A | 205 0696 077 | JL Connector (BT-E) | | 1 |
| C521 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010M | CN8,C,D | 205 0635 002 | 8 P Conn. Base | | 2 |
| C523 | 253 1128 909 | Ceramic Cap. 220pF/500V | CK45B2H221K | CN9B | 205 0635 015 | 9 P Conn. Base | | 1 |
| C525 | 255 1265 936 | Mylar Film 0.01µF/50V | CQ33MH103JB | CN10B | 205 0635 057 | 10 P Conn. Base | | 1 |
| C527 | 254 4262 917 | Electrolytic 10µF/63V | CE04W1J100M | CN11B,C | 205 0635 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 | CK45F1H100Z | CN5A | 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 805 | 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 5058 013 | 5 P PH-SAN Conn. Cord | L=300 | 1 |
| C610,611 | 254 4262 707 | Electrolytic 10000µF/6.3V | CE04W1J103MQ(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 008 | 4 P PH-SAN Conn. Cord | L=470 | 1 |
| C636,637 | 253 1181 904 | Ceramic Cap. 0.01µF/50V | CK45F1H100Z | | | | | |
| C638 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100M | | 203 0526 073 | 1 P Contact Assy | L=80 Black | 1 |
| C701,702 | 253 4637 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 930 | Ceramic Cap. 560pF/50V | CK45B1H561K | | | | | |
| C705 | 254 4260 951 | Electrolytic 2.2µF/50V | CE04W1H220M | | | | | |
| C706 | 253 1181 904 | Ceramic Cap. 0.01µF/50V | CK45F1H100Z | | | | | |
| C710 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100M | | | | | |
| C713 | 254 4250 932 | Electrolytic 220µF/6.3V | CE04W0J221M | | | | | |
| C714 | 256 1034 962 | Metalized 0.12µF/50V | CF93A1H124J | | | | | |
| C715 | 254 4256 905 | Electrolytic 4.7µF/50V | CE04W1V4R7M | | | | | |
| C716,717 | 253 1181 904 | Ceramic Cap. 0.01µF/50V | CK45F1H100Z | | | | | |
| C718 | 254 4250 782 | Electrolytic 3300µF/6.3V | CE04W0J332M | | | | | |
| C719 | 254 4250 906 | Electrolytic 0.1µF/50V | CE04W1H0R1M | | | | | |
| C721 | 253 1181 907 | Ceramic Cap. 0.01µF/50V | CK45F1H100Z | | | | | |
| 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 Type.) | | | |
| IC101 | 263-0672-903 | IC BA4558F | Regulator +5V | R053-058 | 247-0015-986 | Chip Carbon 2.7Mohm 1/10W | RM73B-275J |
| IC102 | 263-0665-007 | IC BA1521B | | R061-066 | 247-0006-962 | Chip Carbon 470ohm 1/10W | RM73B-471J |
| IC103 | 262-2034-009 | IC TC8273N-007 | | R089 | 247-0013-920 | Chip Carbon 220ohm 1/10W | RM73B-224J |
| IC104 | 262-2033-004 | IC TC8273N-004 | | R100 | 247-0013-980 | Chip Carbon 220ohm 1/10W | RM73B-224J |
| IC106 | 263-0672-903 | IC BA4558F | | R101,102 | 247-0006-946 | Chip Carbon 390ohm 1/10W | RM73B-391J |
| IC201 | 263-0608-003 | IC DD5C-A | | R103,104 | 247-0012-969 | Chip Carbon 150ohm 1/10W | RM73B-154J |
| IC202 | 262-1875-960 | IC BU4068BCP | | R105,106 | 247-0011-996 | Chip Carbon 56kohm 1/10W | RM73B-685J |
| IC203,204 or | 263-0609-006 | IC NJM7805 FA(S) | | R107,108 | 247-0004-922 | Chip Carbon 47ohm 1/10W | RM73B-470J |
| IC205 | 263-0672-903 | IC BA4558F | | R109,110 | 247-0007-945 | Chip Carbon 1kohm 1/10W | RM73B-100J |
| IC207 | 262-2032-904 | IC LC7886MN-TRM | | R111,112 | 247-0014-939 | Chip Carbon 560ohm 1/10W | RM73B-564J |
| IC208 | 262-2025-182 | IC DD5C-D | Regulator +6V | R113,114 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| IC210,211 | 262-1824-906 | IC LC78835M | | R115,116 | 247-0003-949 | Chip Carbon 22ohm 1/10W | RM73B-220J |
| IC213 | 263-0360-006 | IC LC4966 | | R117,118 | 247-0005-925 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| IC301 | 262-2031-002 | IC TC9299P | | R119,120 | 247-0013-984 | Chip Carbon 470ohm 1/10W | RM73B-474J |
| IC302 | 263-0672-903 | IC BA4558F | | R133-136 | 247-0015-986 | Chip Carbon 2.7Mohm 1/10W | RM73B-275J |
| IC303 | 262-2031-002 | IC TC9299P | | R139-146 | 247-0015-986 | Chip Carbon 2.7Mohm 1/10W | RM73B-275J |
| IC304 | 263-0672-903 | IC BA4558F | | R147,148 | 247-0005-935 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| IC305 | 263-0615-902 | IC BA1521BF | | R149,150 | 247-0012-927 | Chip Carbon 300ohm 1/10W | RM73B-104J |
| IC306 | 263-0505-900 | IC BA6238F | | R153,154 | 247-0006-962 | Chip Carbon 470ohm 1/10W | RM73B-471J |
| IC307,308 | 263-0672-903 | IC BA4558F | | R157-164 | 247-0006-962 | Chip Carbon 470ohm 1/10W | RM73B-471J |
| IC801 | 263-0656-004 | IC BA7825 | Regulator +6V | R165-168 | 247-0012-927 | Chip Carbon 100ohm 1/10W | RM73B-104J |
| IC803 | 263-0648-005 | IC MC7806CT | | R171,172 | 247-0009-901 | Chip Carbon 4.7kohm 1/10W | RM73B-472J |
| or | 263-0793-002 | NJM7805FA(S) | | R173,174 | 247-0005-935 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| IC804 | 262-0822-005 | IC TC40536P | | R175,176 | 247-0007-945 | Chip Carbon 1kohm 1/10W | RM73B-102J |
| TR101,102 | 275-0061-902 | FET 2SK184(GR)(BL) | | R179,180 | 247-0006-905 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| TR103,104 | 273-0340-904 | Transistor 2SC3326 A/B | | R181-184 | 247-0012-938 | Chip Carbon 200ohm 1/10W | RM73B-204J |
| TR105 | 269-0055-900 | Transistor DTA144EK | | R185,186 | 247-0005-935 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| TR106 | 269-0091-906 | Transistor DTC143TK | | R187 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| TR107 | 269-0055-900 | Transistor DTA144EK | | R190 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| TR108 | 269-0091-906 | Transistor DTC143TK | | R201 | 247-0009-958 | Chip Carbon 7.5kohm 1/10W | RM73B-751J |
| TR201,202 | 269-0054-901 | Transistor DTC144EK | Built in Resistor | R202 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| TR203 | 274-0169-908 | Transistor 2SD1252(R) | Built in Resistor | R203 | 247-0010-929 | Chip Carbon 15kohm 1/10W | RM73B-153J |
| TR204 | 269-0055-900 | Transistor DTA144EK | | R204 | 247-0009-958 | Chip Carbon 7.5kohm 1/10W | RM73B-751J |
| TR206 | 272-0131-901 | Transistor 2SB1041(R) | | R205 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| TR207 | 273-0364-900 | Transistor 2SC2412K(S) | | R206 | 247-0010-929 | Chip Carbon 15kohm 1/10W | RM73B-153J |
| TR210,211 | 269-0054-901 | Transistor DTC144EK | | R207 | 247-0016-923 | Chip Carbon 4.7Mohm 1/10W | RM73B-475J |
| TR212 | 269-0055-900 | Transistor DTA144EK | | R208,209 | 247-0011-960 | Chip Carbon 56kohm 1/10W | RM73B-563J |
| TR301,302 | 269-0055-900 | Transistor DTA144EK | | R210 | 247-0012-927 | Chip Carbon 100kohm 1/10W | RM73B-104J |
| TR303-307 | 275-0061-902 | FET 2SK184(GR)(BL) | | R211 | 247-0019-988 | Chip Carbon 100kohm 1/10W | RM73B-104F($\pm 1\%$) |
| TR308,309 | 269-0054-901 | Transistor DTC144EK | | R217,218 | 247-0008-999 | Chip Carbon 4.3kohm 1/10W | RM73B-432J |
| TR801-804 | 271-0162-924 | Transistor 2SA1015(GR) | Built in Resistor | R222 | 247-0006-962 | Chip Carbon 470ohm 1/10W | RM73B-471J |
| TR806 | 271-0162-924 | Transistor 2SA1015(GR) | | R225,226 | 247-0009-930 | Chip Carbon 6.2kohm 1/10W | RM73B-622J |
| D101,102 | 276-0432-903 | Diode 1SS270A | | R229,230 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| D301-305 | 276-0432-903 | Diode 1SS270A | | R235,236 | 247-0013-984 | Chip Carbon 470ohm 1/10W | RM73B-474J |
| D307 | 276-0432-903 | Diode 1SS270A | | R237-240 | 247-0008-928 | Chip Carbon 2.2kohm 1/10W | RM73B-222J |
| D801-803 | 276-0432-903 | Diode 1SS270A | | R241,242 | 247-0004-922 | Chip Carbon 47ohm 1/10W | RM73B-470J |
| D804-807 | 276-0548-910 | Diode DSM102 | | R247-249 | 247-0005-905 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| ZD201 | 276-0644-979 | Zener Diode MTZJ13A | 13V | R252 | 247-0007-916 | Chip Carbon 750ohm 1/10W | RM73B-751J |
| ZD202 | 276-0644-911 | Zener Diode MTZJ7.5A | 7.5V | R253 | 247-0005-905 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| | | | | R255-257 | 247-0007-916 | Chip Carbon 750ohm 1/10W | RM73B-751J |
| | | | | R258 | 247-0005-905 | Chip Carbon 100ohm 1/10W | RM73B-101J |
| | | | | R259,260 | 247-0006-962 | Chip Carbon 470ohm 1/10W | RM73B-471J |
| | | | | R263-265 | 247-0007-916 | Chip Carbon 750ohm 1/10W | RM73B-751J |
| | | | | R266 | 247-0014-967 | Chip Carbon 1 Mohm 1/10W | RM73B-105J |
| | | | | R267,268 | 247-0006-962 | Chip Carbon 470ohm 1/10W | RM73B-471J |
| | | | | R272 | 247-0007-907 | Chip Carbon 1.5kohm 1/10W | RM73B-152J |
| | | | | R273 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| | | | | R274,275 | 247-0007-916 | Chip Carbon 750ohm 1/10W | RM73B-751J |
| | | | | R277-279 | 247-0009-905 | Chip Carbon 10kohm 1/10W | RM73B-103J |
| | | | | R280 | 247-0011-944 | Chip Carbon 47kohm 1/10W | RM73B-473J |
| | | | | R283,294 | 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 | Qty |
|-------------|--------------|--------------------------------|----------------------|-----------|--------------|--------------------------|---------|-----|
| C289 | 254 4254 908 | 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) | CN9B | 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-LJ(9110) | | 1 |
| | | | | CN6B,6C | 205 0748 064 | JL Connector (R) | | 2 |
| C300 | 253 1120 907 | Ceramic Cap. 4700pF/50V | CK45B1H472K | CN7A | 205 0748 077 | JL Connector (R) | | 1 |
| C301-302 | 257 0012 982 | Chip Ceramic 0.022µF/50V | CK73F1H223Z | CN3H | 205 0943 032 | 3 P Conn. Base (KR-PH) | | 1 |
| C305 | 257 0004 961 | Chip Ceramic 100pF/50V | CC73SL1H101J | | | | | |
| C306 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100M | | 417 0478 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 | | | | | |
| C311,312 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010M | | | | | |
| C317,318 | 257 0006 972 | Chip Ceramic 750pF/50V | CC73SL1H751J | | | | | |
| 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 9056 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 | CE04W1H477M | | | | | |
| 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) | | | | | | |
| L301 | 235 0080 909 | Inductor 120µH | | | | | | 1 |
| XL201 | 399 0046 900 | Ceramic Resonator | CST16.38M00WQCa-TP01 | | | | | 1 |
| | 204 8266 008 | 4 P Pin Jack(S-GND) | | | | | | 2 |
| | 204 8278 005 | 6 P Pin Jack(S-GND) | | | | | | 1 |
| | 204 8346 009 | 6 P Pin Jack(S-GND) | | | | | | 1 |
| | 204 8395 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 | | | | SEMICONDUCTORS GROUP | | | |
| IC001 | 263 0801 001 | IC LA1265(S) | IC Protector 15V Regulator +12V | R006 | 247 0008 902 | Chip Carbon 1.8kohm 1/10W | RM73B-182J |
| IC002 | 263 0489 007 | IC LA3401 | | R007 | 247 0006 920 | Chip Carbon 330kohm 1/10W | RM73B-331J |
| IC003 | 263 0791 907 | IC LM7001M | | R008 | 247 0005 921 | Chip Carbon 120kohm 1/10W | RM73B-121J |
| IC004 | 263 0073 906 | 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 82kohm 1/10W | RM73B-820J |
| IC055 | 263 0565 007 | IC BA15218 | Regulator +6V | R011 | 247 0010 945 | Chip Carbon 18kohm 1/10W | RM73B-183J |
| IC061 or | 263 0648 005 263 0793 002 | IC MC7806CT IC NJM7805FA(S) IC MCT7806CT | | R012,013 | 247 0009 985 | Chip Carbon 10kohm 1/10W | RM73B-103J |
| IC062 | 263 0073 906 | IC ICP-N15 | | R014 | 247 0009 943 | Chip Carbon 5.8kohm 1/10W | RM73B-582J |
| IC051,052 | 263 0074 904 | IC ICP-N20 | | R015 | 247 0009 998 | Chip Carbon 11kohm 1/10W | RM73B-113J |
| IC053 | 263 0886 000 | IC NJM7805FA(S) | | R017 | 247 0008 980 | Chip Carbon 3.3kohm 1/10W | RM73B-332J |
| IC054 | 263 0561 001 | IC NJM7815FA(S) | Regulator +20V | R018 | 247 0011 986 | Chip Carbon 58kohm 1/10W | RM73B-583J |
| IC055,056 | 263 0855 006 | IC 9A16752 | Regulator -15V | R019 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J |
| IC751 | 262 2035 004 | IC MSC1007-CORE | μ -com | R020 | 247 0011 931 | Chip Carbon 43kohm 1/10W | RM73B-433J |
| IC752 | 499 0150 008 | IC SBX1610-S2 | | R021 | 247 0008 960 | Chip Carbon 3.3kohm 1/10W | RM73B-332J |
| IC903 | 263 0812 006 | IC NJM7815FA(S) | Regulator +15V | R022 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J |
| TR001 | 273 0411 509 | Transistor 2SC2996(Y) | Built in Resistor | R023 | 247 0012 943 | Chip Carbon 120kohm 1/10W | RM73B-124J |
| TR002 | 269 0114 900 | Transistor Rn2402 | | R025 | 247 0008 960 | Chip Carbon 3.3kohm 1/10W | RM73B-332J |
| TR003 | 269 0054 901 | Transistor DTC144EK | | R026 | 247 0011 915 | Chip Carbon 35kohm 1/10W | RM73B-353J |
| TR004 | 269 0086 908 | Transistor DTA114TK | | R027,028 | 247 0009 985 | Chip Carbon 10kohm 1/10W | RM73B-103J |
| TR005,006 | 269 0086 902 | Transistor DTC323TK | | R029 | 247 0009 927 | Chip Carbon 5.6kohm 1/10W | RM73B-562J |
| TR007 | 269 0114 900 | Transistor Rn2402 | Built in Resistor | R030 | 247 0009 985 | Chip Carbon 10kohm 1/10W | RM73B-103J |
| TR008 | 275 0075 901 | FET 2SK209(YGR) | Built in Resistor | R031,032 | 247 0009 943 | Chip Carbon 5.6kohm 1/10W | RM73B-562J |
| TR009 | 273 0403 904 | Transistor 2SC2712(YGR) | | R034 | 247 0008 960 | Chip Carbon 3.3kohm 1/10W | RM73B-332J |
| TR555 | 269 0020 906 | Transistor DTC114ES | Built in Resistor | R035 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K |
| TR557,568 | 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) | | R039 | 247 0008 966 | Chip Carbon 3.3kohm 1/10W | RM73B-332J |
| TR626 | 273 0388 906 | Transistor 2SC1740S(E) | | R040 | 247 0009 966 | Chip Carbon 8.2kohm 1/10W | RM73B-822J |
| TR651 | 273 0388 906 | Transistor 2SC1740S(E) | | R041 | 247 0006 946 | Chip Carbon 390hm 1/10W | RM73B-391J |
| D001,002 | 276 0432 903 | Diode 1SS270A | Diode | R042 | 247 0005 947 | Chip Carbon 150hm 1/10W | RM73B-151J |
| D006 | 276 0432 903 | Diode 1SS270A | | R043 | 247 0005 905 | Chip Carbon 100hm 1/10W | RM73B-101J |
| D566,566 | 276 0432 903 | Diode 1SS270A | | R044 | 247 0004 906 | Chip Carbon 39hm 1/10W | RM73B-390J |
| D607 | 276 0432 903 | Diode 1SS270A | | R045,046 | 247 0007 945 | Chip Carbon 10hm 1/10W | RM73B-102J |
| D608-612 | 276 0553 905 | Diode 1SR35-203A | | R047 | 247 0016 905 | Chip Carbon 6hm 1/10W | RM73B-OR0K |
| D615 | 276 0432 903 | Diode 1SS270A | Diode | R048 | 247 0016 961 | Chip Carbon 22kohm 1/10W | RM73B-223J |
| D652 | 276 0338 007 | Diode S4VB20* | | R049 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J |
| D653 | 276 0338 007 | Diode S4VB20* | | R051-053 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K |
| ZD608 | 276 0644 911 | Zener Diode MTZJ7.5A | | R058 | 247 0008 960 | Chip Carbon 3.3kohm 1/10W | RM73B-332J |
| ZD751 | 276 0644 924 | Zener Diode MTZJ8.2A | | R072 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K |
| P651 | 279 0034 067 | Resistor PTH16M046E222T52F33S | Red | R073 | 247 0012 943 | Chip Carbon 120kohm 1/10W | RM73B-124J |
| LD751 | 383 9434 906 | LED SEL1210S | | R081-084 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K |
| RESISTORS GROUP (Not included Carbon Film $\pm 5\%$, 1/4 W Type.) | | | | CAPACITORS GROUP | | | |
| R001 | 247 0005 905 | Chip Carbon 100hm 1/10W | RM73B-101J | C001-004 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R003 | 247 0005 989 | Chip Carbon 220hm 1/10W | RM73B-221J | C005 | 254 4260 922 | Electrolytic 0.33 μ F/50V | CE04WH1R33M |
| R004 | 247 0009 901 | Chip Carbon 4.7kohm 1/10W | RM73B-472J | C006 | 257 0004 961 | Chip Ceramic 100pF/50V | CC03SL1H101J |
| R005 | 247 0006 920 | Chip Carbon 330hm 1/10W | RM73B-331J | C007 | 257 0004 967 | Chip Ceramic 120pF/50V | CC03SL1H121J |
| R006 | 247 0008 902 | Chip Carbon 1.8kohm 1/10W | RM73B-182J | C008 | 254 4254 903 | Electrolytic 10 μ F/16V | CE04WH1C100M |
| R007 | 247 0006 920 | Chip Carbon 330hm 1/10W | RM73B-331J | C010,011 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R008 | 247 0005 921 | Chip Carbon 120hm 1/10W | RM73B-121J | C012 | 254 4260 935 | Electrolytic 0.47 μ F/50V | CE04WH1R47M |
| R009 | 247 0010 929 | Chip Carbon 15kohm 1/10W | RM73B-153J | C013 | 254 4260 960 | Electrolytic 10 μ F/50V | CE04WH1R100M |
| R010 | 247 0004 980 | Chip Carbon 82ohm 1/10W | RM73B-820J | C014 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| R011 | 247 0010 945 | Chip Carbon 18kohm 1/10W | RM73B-183J | C015 | 257 0012 962 | Chip Ceramic 0.022 μ F/50V | CK03FH1223Z |
| R012,013 | 247 0009 985 | Chip Carbon 10kohm 1/10W | RM73B-103J | C017 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| R014 | 247 0009 943 | Chip Carbon 5.8kohm 1/10W | RM73B-582J | CAPACITORS GROUP | | | |
| R015 | 247 0009 998 | Chip Carbon 11kohm 1/10W | RM73B-113J | C001-004 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R017 | 247 0008 980 | Chip Carbon 3.3kohm 1/10W | RM73B-332J | C005 | 254 4260 922 | Electrolytic 0.33 μ F/50V | CE04WH1R33M |
| R018 | 247 0011 986 | Chip Carbon 58kohm 1/10W | RM73B-583J | C006 | 257 0004 961 | Chip Ceramic 100pF/50V | CC03SL1H101J |
| R019 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J | C007 | 257 0004 967 | Chip Ceramic 120pF/50V | CC03SL1H121J |
| R020 | 247 0011 931 | Chip Carbon 43kohm 1/10W | RM73B-433J | C008 | 254 4254 903 | Electrolytic 10 μ F/16V | CE04WH1C100M |
| R021 | 247 0008 960 | Chip Carbon 3.3kohm 1/10W | RM73B-332J | C010,011 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R022 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J | C012 | 254 4260 935 | Electrolytic 0.47 μ F/50V | CE04WH1R47M |
| R023 | 247 0012 943 | Chip Carbon 120kohm 1/10W | RM73B-124J | C013 | 254 4260 960 | Electrolytic 10 μ F/50V | CE04WH1R100M |
| R025 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J | C014 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| R026 | 247 0011 915 | Chip Carbon 35kohm 1/10W | RM73B-353J | C015 | 257 0012 962 | Chip Ceramic 0.022 μ F/50V | CK03FH1223Z |
| R027,028 | 247 0009 985 | Chip Carbon 10kohm 1/10W | RM73B-103J | C017 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| R029 | 247 0009 927 | Chip Carbon 5.6kohm 1/10W | RM73B-562J | CAPACITORS GROUP | | | |
| R030 | 247 0009 985 | Chip Carbon 10kohm 1/10W | RM73B-103J | C001-004 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R031,032 | 247 0009 943 | Chip Carbon 5.6kohm 1/10W | RM73B-562J | C005 | 254 4260 922 | Electrolytic 0.33 μ F/50V | CE04WH1R33M |
| R034 | 247 0008 960 | Chip Carbon 3.3kohm 1/10W | RM73B-332J | C006 | 257 0004 961 | Chip Ceramic 100pF/50V | CC03SL1H101J |
| R035 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K | C007 | 257 0004 967 | Chip Ceramic 120pF/50V | CC03SL1H121J |
| R036,037 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J | C008 | 254 4254 903 | Electrolytic 10 μ F/16V | CE04WH1C100M |
| R038 | 247 0009 985 | Chip Carbon 10kohm 1/10W | RM73B-103J | C010,011 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R039 | 247 0008 966 | Chip Carbon 3.3kohm 1/10W | RM73B-332J | C012 | 254 4260 935 | Electrolytic 0.47 μ F/50V | CE04WH1R47M |
| R040 | 247 0009 966 | Chip Carbon 8.2kohm 1/10W | RM73B-822J | C013 | 254 4260 960 | Electrolytic 10 μ F/50V | CE04WH1R100M |
| R041 | 247 0006 946 | Chip Carbon 390hm 1/10W | RM73B-391J | C014 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| R042 | 247 0005 947 | Chip Carbon 150hm 1/10W | RM73B-151J | C015 | 257 0012 962 | Chip Ceramic 0.022 μ F/50V | CK03FH1223Z |
| R043 | 247 0005 905 | Chip Carbon 100hm 1/10W | RM73B-101J | C017 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| R044 | 247 0004 906 | Chip Carbon 39hm 1/10W | RM73B-390J | CAPACITORS GROUP | | | |
| R045,046 | 247 0007 945 | Chip Carbon 10hm 1/10W | RM73B-102J | C001-004 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R047 | 247 0016 905 | Chip Carbon 6hm 1/10W | RM73B-OR0K | C005 | 254 4260 922 | Electrolytic 0.33 μ F/50V | CE04WH1R33M |
| R048 | 247 0016 961 | Chip Carbon 22kohm 1/10W | RM73B-223J | C006 | 257 0004 961 | Chip Ceramic 100pF/50V | CC03SL1H101J |
| R049 | 247 0012 927 | Chip Carbon 100kohm 1/10W | RM73B-104J | C007 | 257 0004 967 | Chip Ceramic 120pF/50V | CC03SL1H121J |
| R051-053 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K | C008 | 254 4254 903 | Electrolytic 10 μ F/16V | CE04WH1C100M |
| R058 | 247 0008 960 | Chip Carbon 3.3kohm 1/10W | RM73B-332J | C010,011 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| R072 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K | C012 | 254 4260 935 | Electrolytic 0.47 μ F/50V | CE04WH1R47M |
| R073 | 247 0012 943 | Chip Carbon 120kohm 1/10W | RM73B-124J | C013 | 254 4260 960 | Electrolytic 10 μ F/50V | CE04WH1R100M |
| R081-084 | 247 0018 905 | Chip Carbon 60hm 1/10W | RM73B-OR0K | C014 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| RE16 | 241 2375 920 | Carbon Film 200hm 1/4W (B) | RD14B2500LNE | C015 | 257 0012 962 | Chip Ceramic 0.022 μ F/50V | CK03FH1223Z |
| RE30 | 241 2375 976 | Carbon Film 200hm 1/4W (B) | RD14B2500LNE | C017 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04WH1R01M |
| RE36 | 242 0017 940 | Carbon Composition 2.2Mhm 1/2W | RD15G14R22M | CAPACITORS GROUP | | | |
| RE81,082 | 244 3061 987 | Met. Oxide 4.7hm 1/4W (N) | RS14B1447R2ES(S) | C001-004 | 257 0012 966 | Chip Ceramic 0.01 μ F/50V | CK03FH103Z |
| VR565 | 211 0798 103 | Variable Resistor 100kohm | | C005 | 254 4260 922 | Electrolytic 0.33 μ F/50V | CE04WH1R33M |
| VR566 | 211 0797 117 | Variable Resistor 30kohm | | C006 | 257 0004 961 | Chip Ceramic 100pF/50V | CC03SL1H101J |
| VR567 | 211 0797 133 | Variable Resistor 10kohm | | C007 | 257 0004 967 | Chip Ceramic 120pF/50V | CC03SL1H121J |
| RESISTORS GROUP | | | | C008 | 254 4254 903 | Electrolytic 10 μ F/16V | CE04WH1C100M |
| RESISTORS GROUP | | | | C010,011 | 257 00 | | |

| Ref. No. | Parts No. | Parts Name | Remarks |
|----------|--------------|--------------------------------|---------------------|
| C018 | 254 4254 938 | Electrolytic 47μF/16V | CE04W1C470M |
| C019 | 256 1034 937 | Metalized 0.047μF/50V | CF93A1H473J |
| C020 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C021 | 254 4260 919 | Electrolytic 0.22μF/50V | CE04W1HR22M |
| C022 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C023,024 | 257 0012 966 | Chip Ceramic 0.01μF/50V | CK73F1H103Z |
| C025 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100M |
| C026,027 | 257 0006 972 | Chip Ceramic 750pF/50V | CC73SL1H751J |
| C028-030 | 254 4260 951 | Electrolytic 2.2μF/50V | CE04W1H2R2M |
| C031 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C032,033 | 257 0012 966 | Chip Ceramic 0.01μF/50V | CK73F1H103Z |
| C034,035 | 257 0002 976 | Chip Ceramic 16pF/50V | CC73SL1H160J |
| C036 | 257 0004 961 | Chip Ceramic 100pF/50V | CC73SL1H101J |
| C037 | 257 0002 947 | Chip Ceramic 12pF/50V | CC73SL1H120J |
| C038 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100M |
| C039 | 257 0012 966 | Chip Ceramic 0.01μF/50V | CK73F1H103Z |
| C040 | 257 0012 982 | Chip Ceramic 0.022μF/50V | CK73F1H223Z |
| C041 | 257 0012 966 | Chip Ceramic 0.01μF/50V | CK73F1H103Z |
| C042 | 254 3056 917 | Electrolytic 1μF/50V (Bipolar) | CE04D1H010MBP |
| C043 | 254 4254 938 | Electrolytic 47μF/16V | CE04W1C470M |
| C044 | 254 4260 906 | Electrolytic 0.1μF/50V | CE04W1H0R1M |
| C046,047 | 257 0012 966 | Chip Ceramic 0.01μF/50V | CK73F1H103Z |
| C048 | 256 1034 940 | Metalized 0.056μF/50V | CF93A1H563J |
| C049 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C051 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C058 | 254 4254 938 | Electrolytic 47μF/16V | CE04W1C470M |
| C060,061 | 257 0012 966 | Chip Ceramic 0.01μF/50V | CK73F1H103Z |
| C565,566 | 254 4260 980 | Electrolytic 10μF/50V | CE04W1H100M |
| C567-570 | 253 4538 949 | Ceramic Cap. 100pF/50V | CC45SL1H101J |
| C571,572 | 255 1264 940 | Mylar Film 0.0022μF/50V | CQ93M1H222J(B) |
| C573,574 | 256 1035 907 | Metalized 0.18μF/50V | CF93A1H184J |
| C575,576 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C579,580 | 255 1265 949 | Mylar Film 0.012μF/50V | CQ93M1H123J(B) |
| C581,582 | 254 4260 922 | Electrolytic 0.33μF/50V | CE04W1HR33M |
| C583,584 | 253 1181 917 | Ceramic Cap. 0.022μF/50V | CK45F1H223Z |
| C585,586 | 254 4254 938 | Electrolytic 47μF/16V | CE04W1C470M |
| C587,588 | 256 1034 940 | Metalized 0.056μF/50V | CF93A1H563J |
| C607 | 254 4260 980 | Electrolytic 10μF/50V | CE04W1H100M |
| C608 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C611,612 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C613,614 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C615,616 | 254 4260 980 | Electrolytic 10μF/50V | CE04W1H100M |
| C617,618 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C619 | 254 4254 938 | Electrolytic 47μF/16V | CE04W1C470M |
| C621,622 | 254 4259 726 | Electrolytic 4700μF/35V | CE04W1V472MC |
| C623,624 | 253 1151 905 | Ceramic Cap. 4700pF/500V | CK45E2H472P |
| C625 | 256 1042 903 | Metalized 0.1μF/250V | CF93A2E104K |
| C626,627 | 255 1265 936 | Mylar Film 0.01μF/50V | CQ93M1H103J(B) |
| C628 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C630 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C631 | 254 4256 790 | Electrolytic 2200μF/25V | CE04W1E222MC |
| C632,633 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C634 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| △ C635 | 253 8014 702 | Ceramic Cap. 0.01μF/400V | CK45F2GAC103MC (AC) |
| C639 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C651,652 | 254 4260 951 | Electrolytic 2.2μF/50V | CE04W1H2R2M |
| C653,654 | 253 4538 949 | Ceramic Cap. 100pF/50V | CC45SL1H101J |
| C655,656 | 254 4254 938 | Electrolytic 47μF/16V | CE04W1C470M |
| C659,660 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C667,668 | 256 1034 979 | Metalized 0.1μF/50V | CF93A1H104J |
| C681,682 | 253 4538 949 | Ceramic Cap. 100pF/50V | CC45SL1H101J |
| C683,684 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |

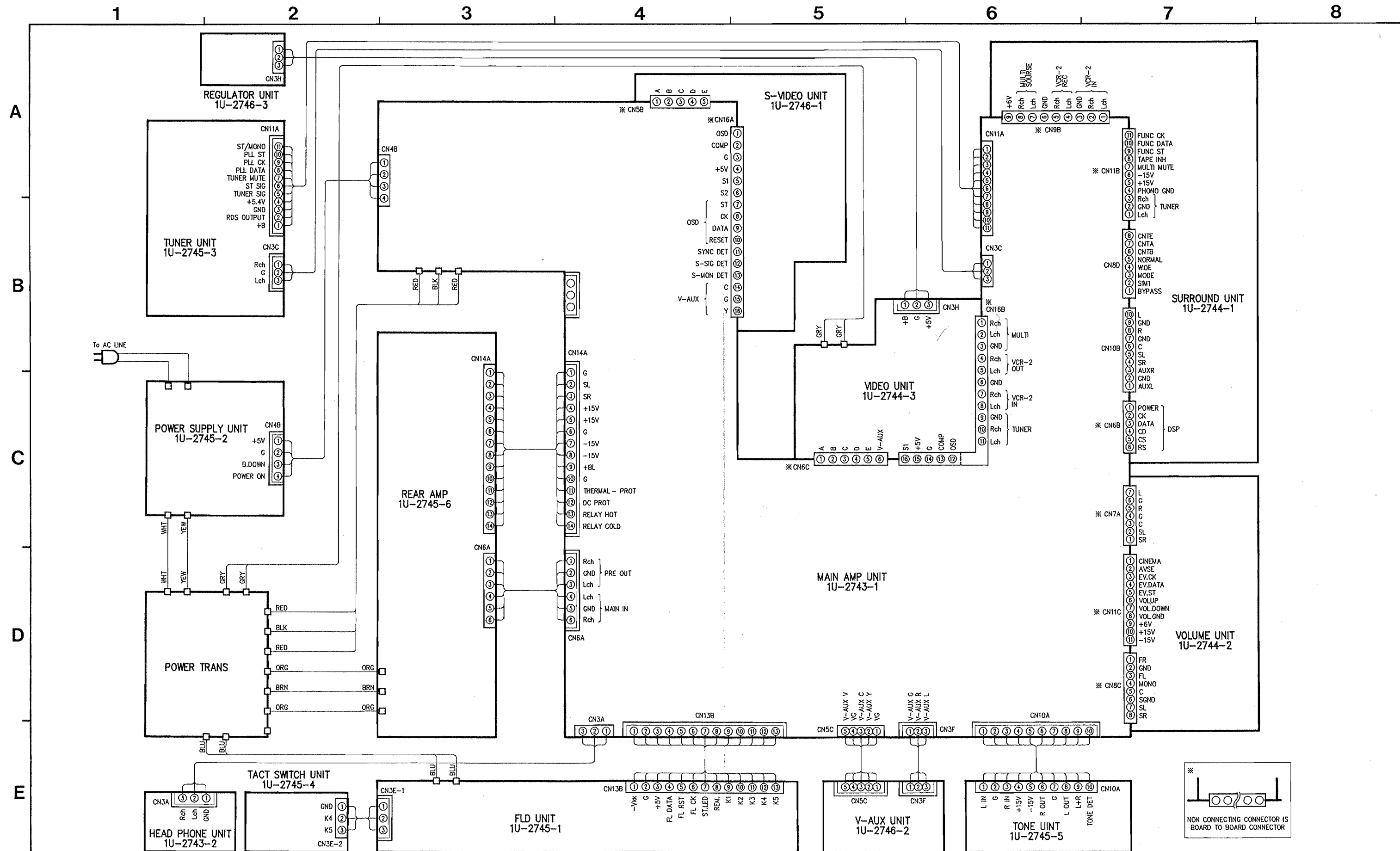
| Ref. No. | Parts No. | Parts Name | Remarks |
|-------------|--------------|---------------------------|--------------|
| C685,686 | 253 4538 949 | Ceramic Cap. 100pF/50V | CC45SL1H101J |
| C751 | 256 1034 979 | Metalized 0.1μF/50V | CF93A1H104J |
| C752 | 254 4261 921 | Electrolytic 100μF/50V | CE04W1H101M |
| C753 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C754 | 254 4250 945 | Electrolytic 330μF/6.3V | CE04W0J331M |
| C755 | 253 1179 903 | Ceramic Cap. 100pF/50V | CK45B1H101K |
| C819 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C820 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100M |
| OTHER GROUP | | | Q'ty |
| L651,652 | 235 0068 004 | Inductor 1μH | 2 |
| L751 | 235 0060 989 | Inductor 120μH | 1 |
| S751-785 | 212 5604 910 | Tact Switch | 35 |
| CF001 | 261 0135 907 | Ceramic Filter MA8 | 1 |
| CF002 | 261 0136 906 | Ceramic Filter MS2G | 1 |
| CF003 | 261 0031 001 | Ceramic Filter BFU450C4 | 1 |
| CF004 | 261 0116 007 | Ceramic Filter SFU450B3 | 1 |
| CF005 | 261 0079 005 | Ceramic Filter CSB456F11 | 1 |
| XL001 | 399 0075 003 | Crystal 7.2 MHz | 1 |
| T001 | 231 2096 001 | MW Ant.-Osc. Coil | 1 |
| T002 | 231 1138 009 | :AM IFT | 1 |
| T003 | 231 2085 009 | FM Det. Trans | 1 |
| FE001 | 216 0064 007 | Front End | 1 |
| FL751 | 393 4156 001 | FLD (FIP16FM7R) | 1 |
| △ F001 | 206 1046 014 | Fuse 8 A | 1 |
| △ F003,004 | 206 1046 027 | Fuse 5 A | 2 |
| △ F005 | 206 1046 043 | Fuse 10 A | 1 |
| | 202 0040 909 | Fuse Clip | 8 |
| △ RL603 | 214 0170 005 | Relay (TV-B) | 1 |
| RL651 | 214 0167 005 | Relay (GSZ-2A) | 1 |
| AT001 | 205 0847 004 | 3 P Ant. Terminal (PAL/F) | 1 |
| | 204 8266 008 | 4 P Pin Jack(S-GND) | 1 |
| | 205 0592 003 | 4 P Push Terminal | 1 |
| △ | 203 0341 009 | AC Outlet (2 P) | 1 |
| △ | 233 0018 007 | Power Trans (Mini) | 1 |
| | 205 0075 025 | 2 P Terminal | 1 |
| CN3C,3E | 205 0343 032 | 3 P Conn. Base (KR-PH) | 2 |
| CN11A | 205 0375 013 | 11 P Conn. Base (KR-PH) | 1 |
| CN4B | 205 0343 045 | 4 P Conn. Base (KR-PH) | 1 |
| CN6A | 204 0461 005 | 6 P PH-SAN Conn. Cord | L=280 1 |
| CN10A | 204 2593 010 | 10 P PH-SAN Conn. Cord | L=80 1 |
| CN13B | 204 6503 006 | 13 P PH-SAN Conn. Cord | L=230 1 |
| CN14A | 204 6504 005 | 14 P PH-SAN Conn. Cord | L=150 1 |
| CN3E | 203 5038 003 | 3 P KR-DS Conn. Cord | L=100 1 |
| | 205 0185 025 | 2 P Wire Holder | 1 |
| | 415 0309 039 | P.V.C. Tube (L=25) | 2 |

1U-2746 S-VIDEO UNIT ASS'Y

| Ref. No. | Parts No. | Parts Name | Remarks |
|---|--------------|---------------------------|-------------------|
| SEMICONDUCTORS GROUP | | | |
| IC806 | 263 0793 002 | IC NJM7806FA(S) | Regulator +6V |
| IC901 | 263 0857 003 | IC BA7626 | μ-com |
| IC902 | 263 0856 004 | IC BA7625 | |
| IC903 | 262 2067 005 | IC MC74HC4053N | |
| IC904 | 262 2036 007 | IC M35012-081SP | |
| IC905 | 263 0682 003 | IC NJM2229S | |
| TR901-906 | 271 0102 924 | Transistor 2SA1015(GR) | Built in Resistor |
| TR909 | 271 0102 924 | Transistor 2SA1015(GR) | |
| TR910 | 273 0198 918 | Transistor 2SC1815(BL) | |
| TR911 | 271 0102 924 | Transistor 2SA1015(GR) | |
| TR913 | 269 0020 906 | Transistor DTC114ES | |
| TR914 | 271 0102 924 | Transistor 2SA1015(GR) | |
| D818 | 276 0432 903 | Diode 1SS270A | Diode 1SS270A |
| D901-904 | 276 0432 903 | Diode 1SS270A | |
| D908,909 | 276 0432 903 | Diode 1SS270A | |
| RESISTORS GROUP (Not included Carbon Film ±5%, 1/4 W Type.) | | | |
| △ R943,944 | 241 2387 908 | Carbon Film 10hm 1/4W(NB) | RD14B2E010JNBS |
| CAPACITORS GROUP | | | |
| C099 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C191,192 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C841,842 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100M |
| C901-906 | 254 4260 977 | Electrolytic 4.7μF/50V | CE04W1H4R7M |
| C907 | 254 4250 932 | Electrolytic 220μF/6.3V | CE04W0J221M |
| C908 | 254 4250 958 | Electrolytic 470μF/6.3V | CE04W0J471M |
| C909 | 254 4250 932 | Electrolytic 220μF/6.3V | CE04W0J221M |
| C910 | 254 4250 958 | Electrolytic 470μF/6.3V | CE04W0J471M |
| C911 | 254 4250 932 | Electrolytic 220μF/6.3V | CE04W0J221M |
| C912 | 254 4250 958 | Electrolytic 470μF/6.3V | CE04W0J471M |
| C914,915 | 253 1181 917 | Ceramic Cap. 0.022μF/50V | CK45F1H223Z |
| C916,917 | 254 4252 930 | Electrolytic 100μF/10V | CE04W1A101M |
| C920 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100M |
| C921,922 | 253 4537 924 | Ceramic Cap. 33pF/50V | CC45SL1H330J |
| C923 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C924,925 | 254 4252 930 | Electrolytic 100μF/10V | CE04W1A101M |
| C926 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C927 | 253 4536 925 | Ceramic Cap. 12pF/50V | CC45SL1H120J |
| C928 | 254 4536 909 | Ceramic Cap. 10pF/50V | CC45SL1H100J |
| C929 | 253 4537 924 | Ceramic Cap. 33pF/50V | CC45SL1H330J |
| C930 | 255 1265 978 | Mylar Film 0.022μF/50V | CQ93M1H223J(B) |
| C931 | 253 4538 949 | Ceramic Cap. 100pF/50V | CC45SL1H101J |
| C933 | 254 4260 977 | Electrolytic 4.7μF/50V | CE04W1H4R7M |
| C935 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C936 | 256 1034 953 | Metalized 0.067μF/50V | CF93A1H683J |
| C937 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C938 | 255 1264 966 | Mylar Film 0.0033μF/50V | CQ93M1H332J(B) |
| C939 | 253 1179 987 | Ceramic Cap. 470pF/50V | CK45B1H471K |
| C940 | 253 1179 929 | Ceramic Cap. 150pF/50V | CK45B1H151K |
| C941 | 255 1264 911 | Mylar Film 0.0012μF/50V | CQ93M1H122J(B) |
| C942 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| C943 | 254 4252 930 | Electrolytic 100μF/10V | CE04W1A101M |

| Ref. No. | Parts No. | Parts Name | Remarks |
|-------------|--------------|-------------------------|--------------------|
| C944 | 255 1264 908 | Mylar Film 0.001μF/50V | CQ93M1H102J(B) |
| C945 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100M |
| C946,947 | 256 1034 937 | Metalized 0.047μF/50V | CF93A1H473J |
| C948 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C949 | 256 1034 937 | Metalized 0.047μF/50V | CF93A1H473J |
| C951 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C955,956 | 254 4260 977 | Electrolytic 4.7μF/50V | CE04W1H4R7M |
| C957,958 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M |
| C959-961 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100M |
| C962 | 253 1118 906 | Ceramic Cap. 3300pF/50V | CK45B1H332K |
| C964 | 253 1181 904 | Ceramic Cap. 0.01μF/50V | CK45F1H103Z |
| OTHER GROUP | | | Q'ty |
| L901 | 235 0060 963 | Inductor 15μH | 1 |
| XL901 | 399 0153 006 | Crystal | 14.32MHz-12PF 1 |
| XL902 | 399 0105 009 | Ceramic Resonator | CSB503F2 1 |
| | 204 8414 012 | 2 P S-Terminal | 1 |
| | 204 8415 011 | 3 P S-Terminal | 1 |
| | 205 0902 004 | 1 P S-Terminal (SW) | 1 |
| | 205 0903 003 | 1 P S-Terminal (3.5) | 1 |
| | 204 8404 006 | 3 P Pin Jack | 1 |
| CN3F | 205 0343 032 | 3 P Conn. Base (KR-PH) | 1 |
| CN5C | 205 0343 058 | 5 P Conn. Base (KR-PH) | 1 |
| CN5B | 205 0748 051 | 5 P J.L Connector (R) | 1 |
| CN16A | 205 0773 000 | 16 P Conn. Base-L(9110) | 1 |
| CN3H | 203 5012 029 | 3 P SAN-PH Conn. Cord | L=330 1 |
| CN3Q | 203 4701 001 | 3 P SAN-SAN Conn. Cord | L=150 1 |
| | 203 0426 021 | 1 P Contact Ass'y | L=140 Black 1 |
| | 203 0606 003 | 1 P SIN Conn. Cord | 1 |

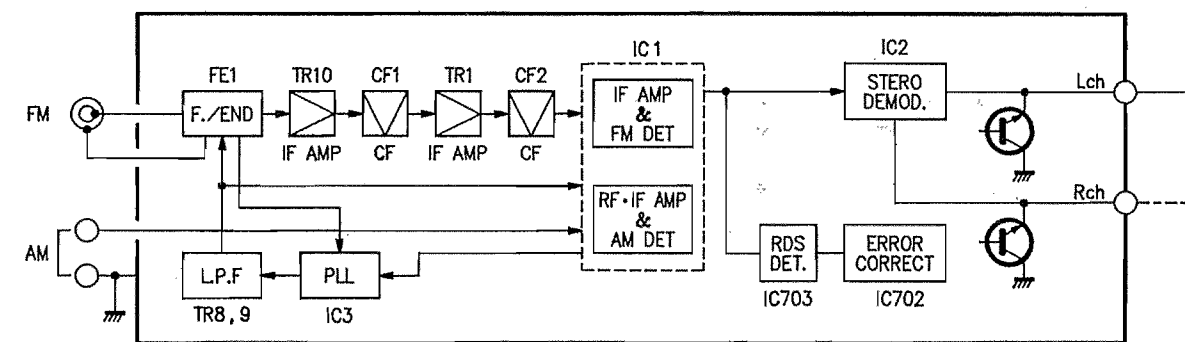
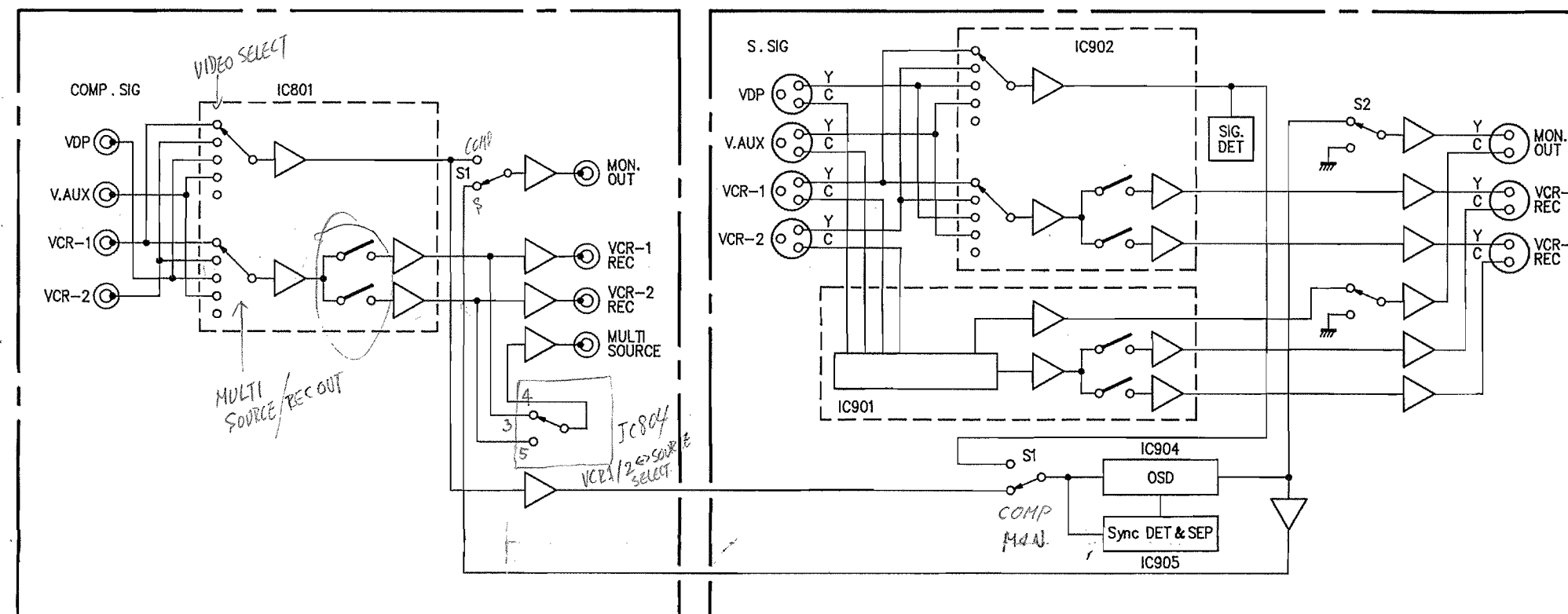
WIRING DIAGRAM



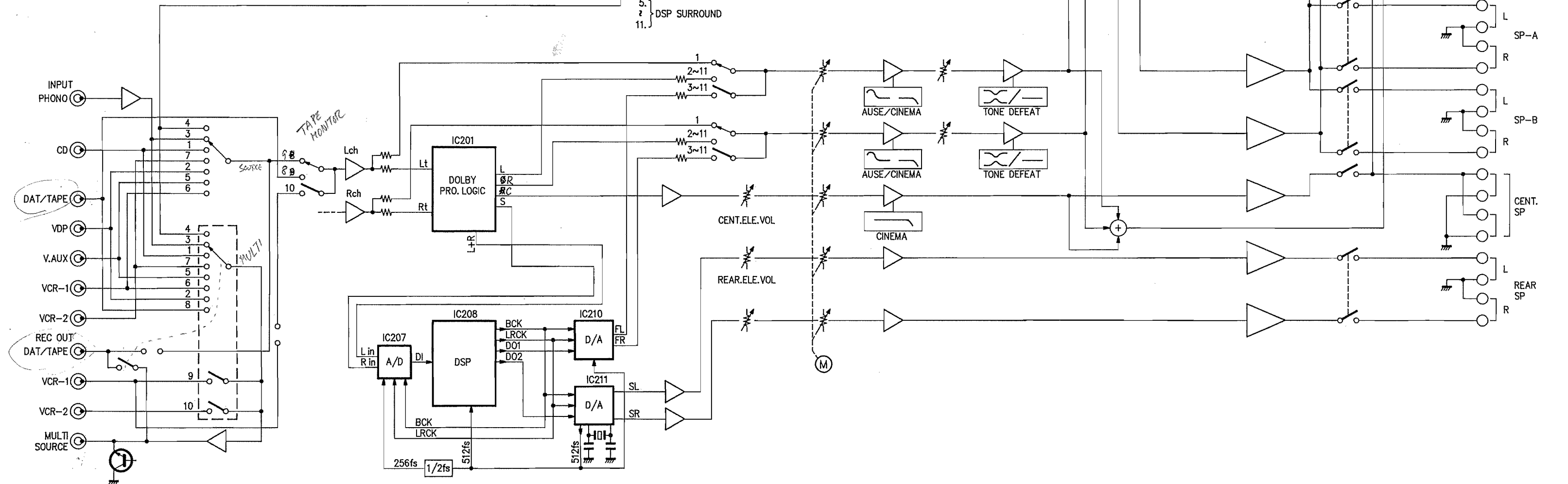
BLOCK DIAGRAM

1 2 3 4 5 6 7 8 9 10 11

| | MON. OUT | VCR1 | VCR2 | MULTI |
|------------|----------|------|------|-------|
| VDP | VDP | VDP | VDP | X |
| MULTI VDP | 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 |
| MULT VCR2 | AUX | VCR2 | X | VCR2 |

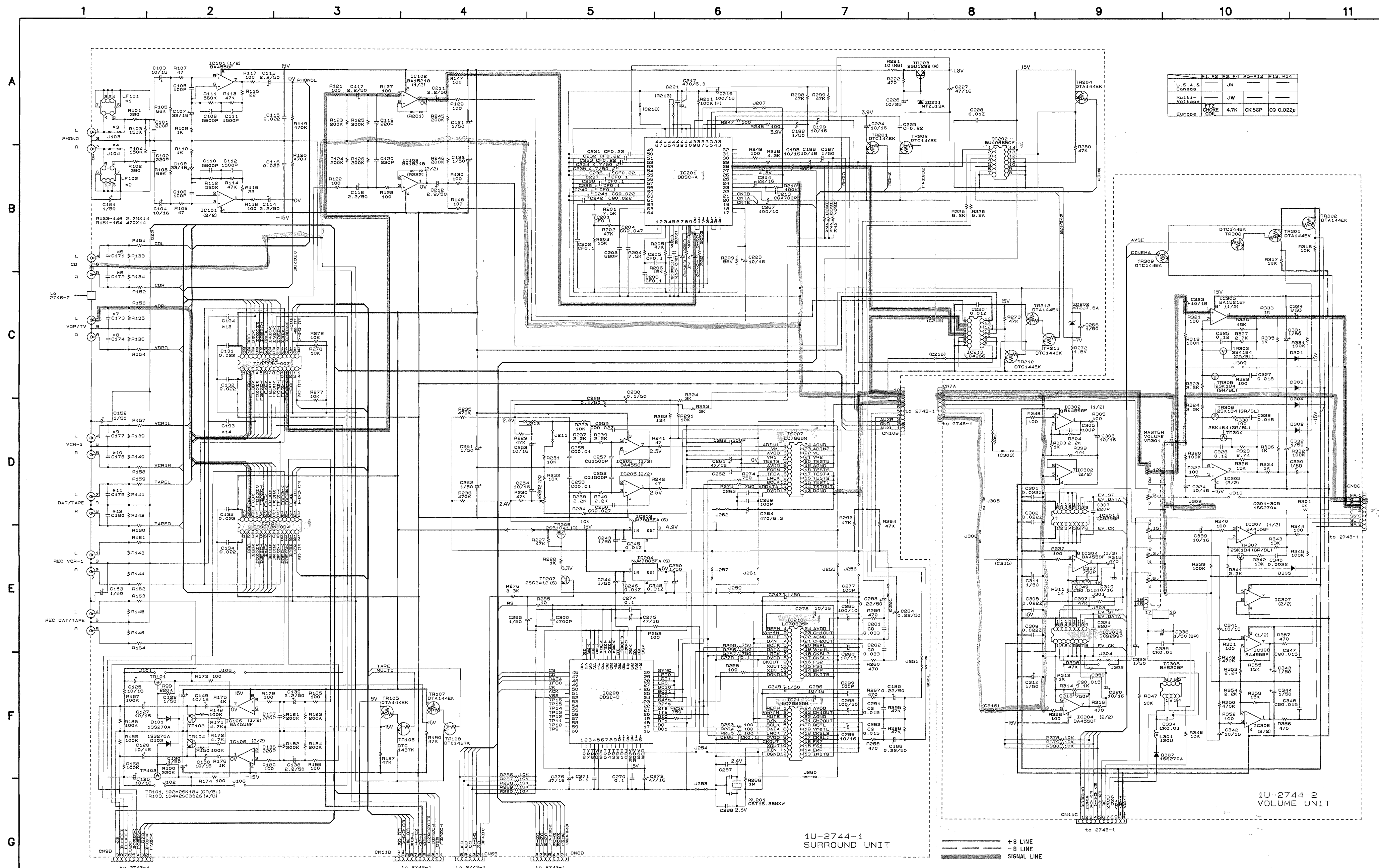


SURROUND MODE
1. STEREO
2. DOLBY PRO. LOGIC
3. WIDE SCREEN
4. LIVE
5. 1
6. DSP SURROUND



A
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C
D
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H

SCHEMATIC DIAGRAM - (1/4)



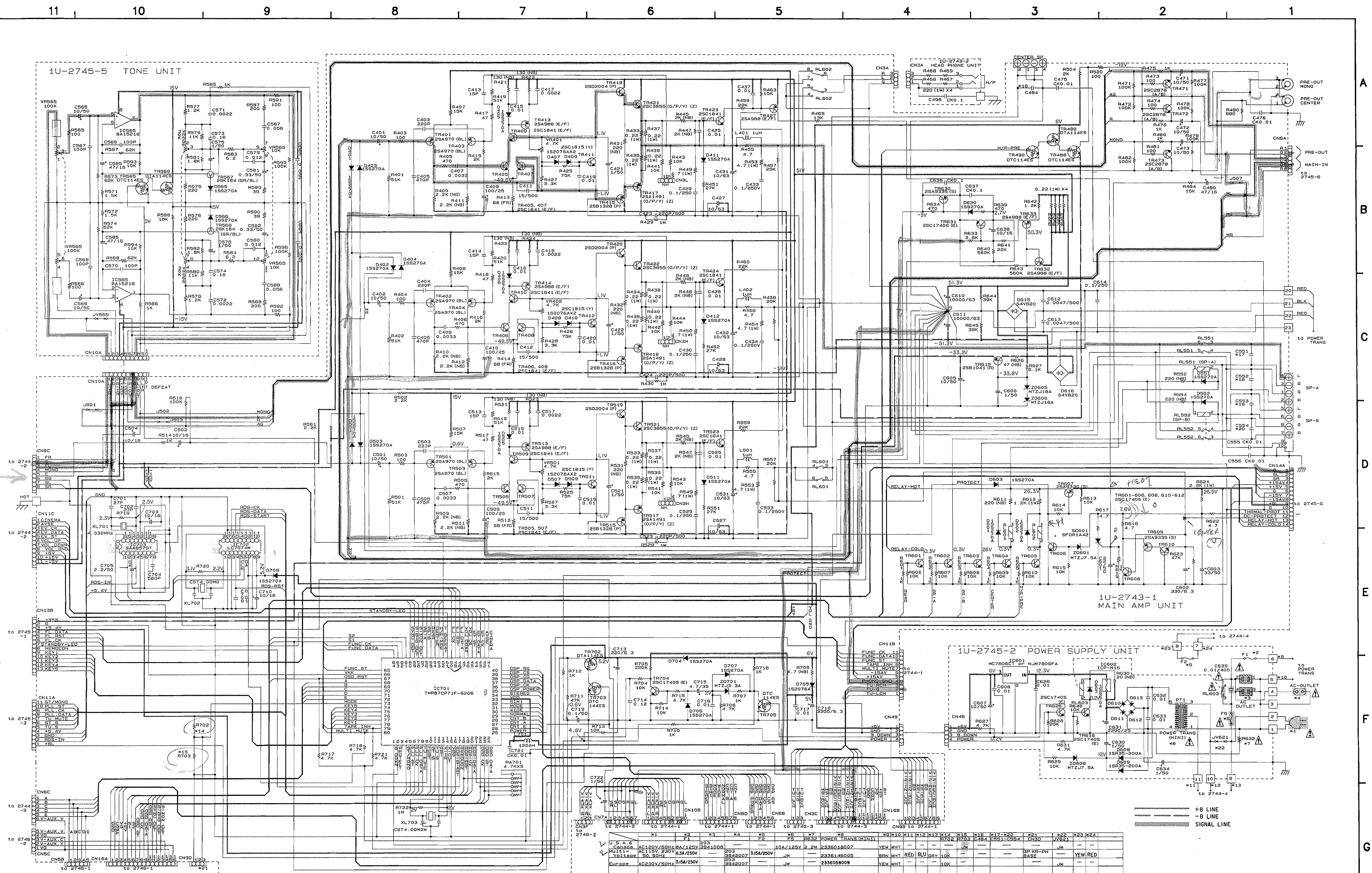
NOTES
ALL RESISTANCE VALUES IN OHM. K=1,000 OHM, M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE

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 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.

SCHEMATIC DIAGRAM - (2/4)



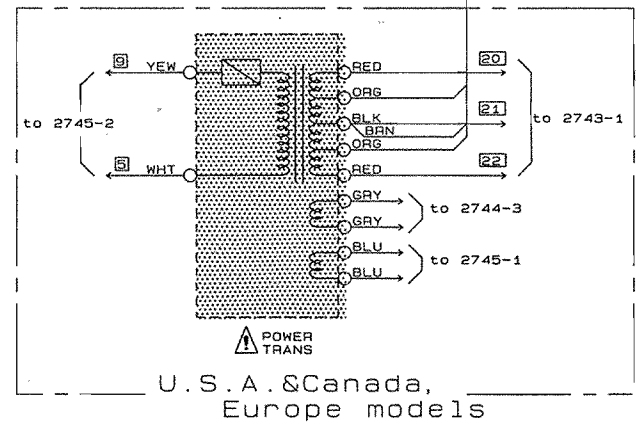
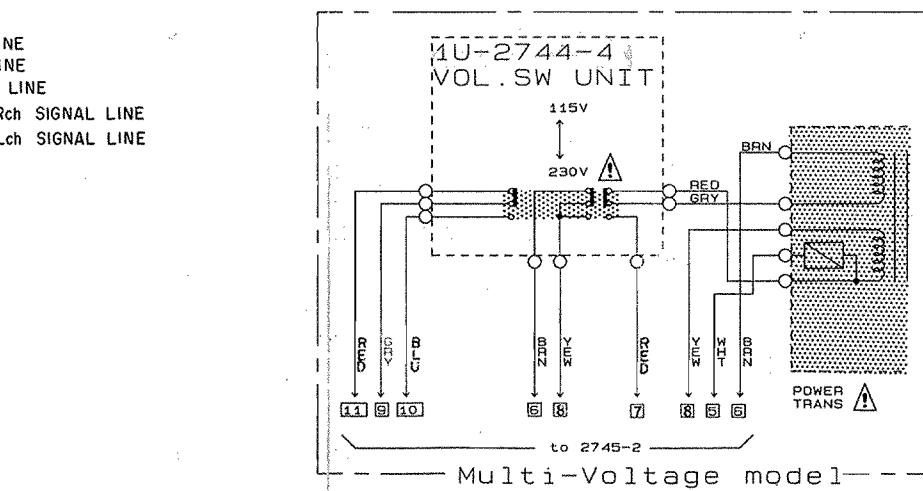
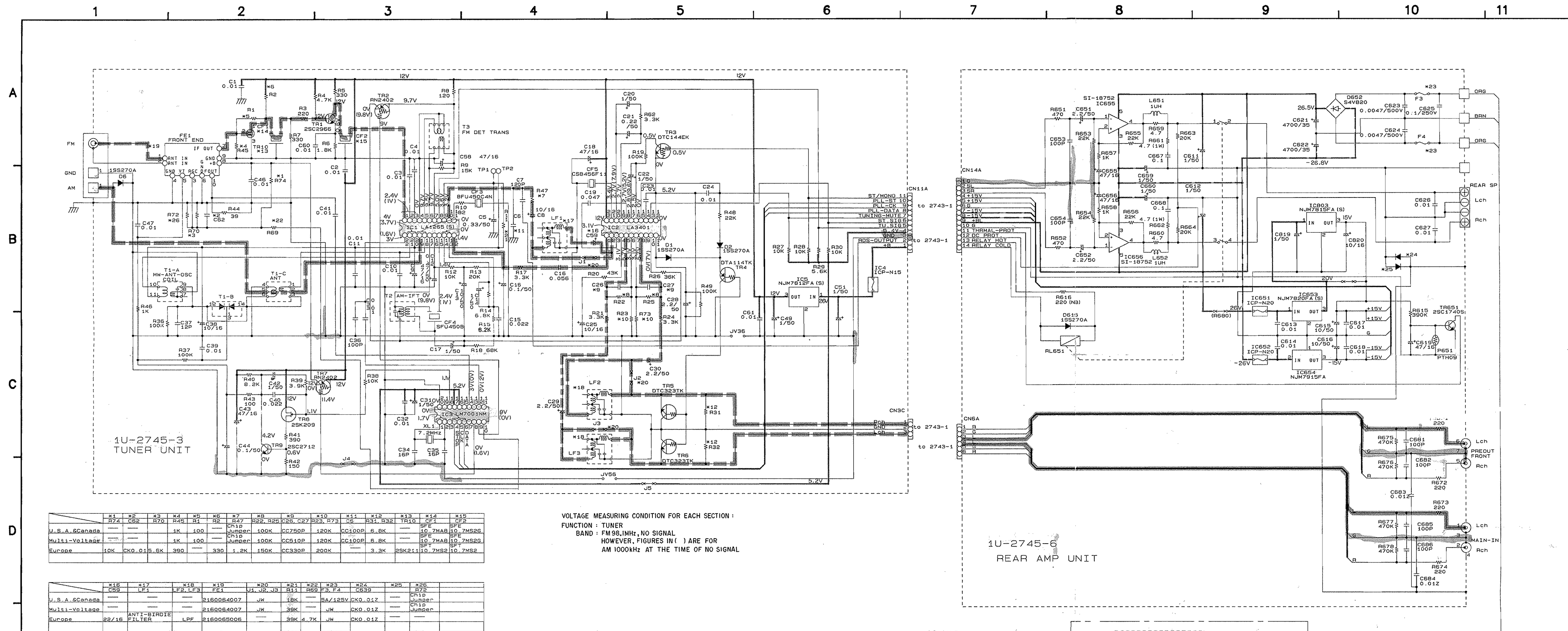
NOTES
ALL RESISTANCE VALUES IN OHM. K=1,000 OHM, M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

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 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.

SCHEMATIC DIAGRAM - (3/4)



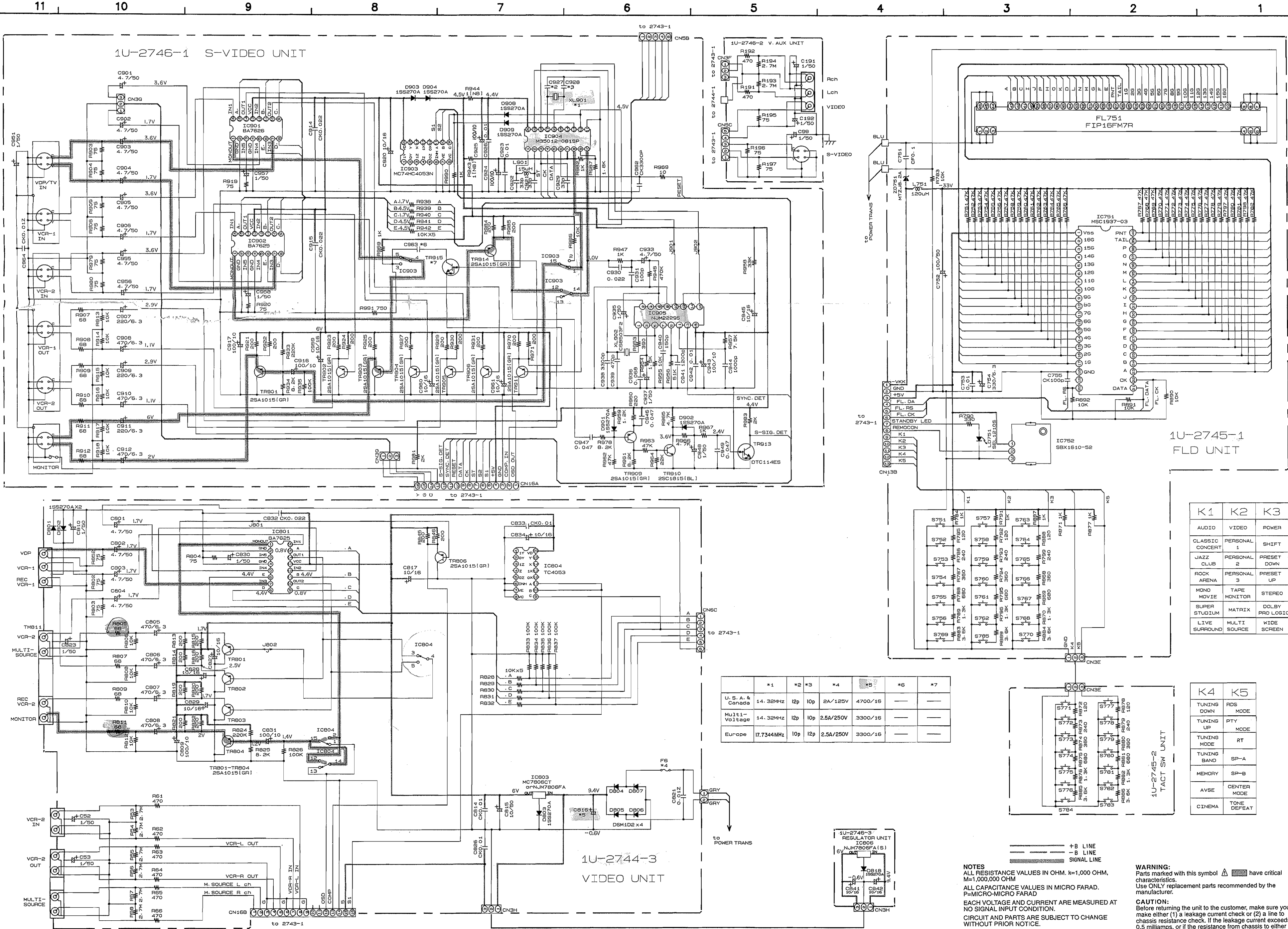
NOTES
ALL RESISTANCE VALUES IN OHM. K=1,000 OHM, M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

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 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is defective.

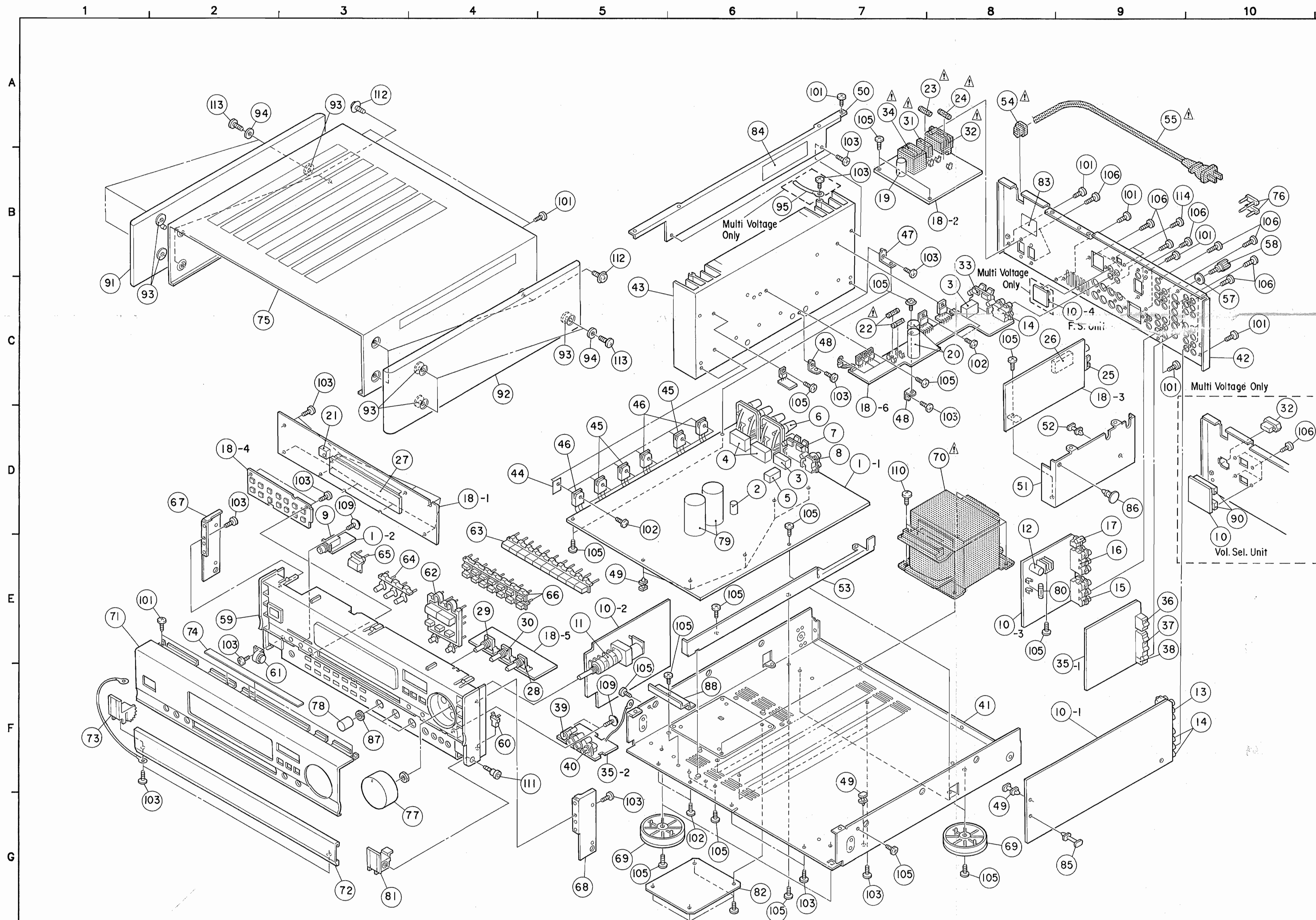
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAM - (4/4)



A
B
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H

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 3300 μ F/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 | — | — | | 1 |
| 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 4700 μ F/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 2200 μ F/25V | C631 | 1 | 78 | Note | Vol. Knob (B) | | 3 |
| 20 | 254 4259 726 | Chemicon 4700 μ F/35V | C621,622 | 2 | 79 | 254 4362 707 | Chemicon 10000 μ F/63V | C610,611 | 2 |
| 21 | 499 0150 008 | Remocon Sensor SBX1610-52 | IC752 | 1 | 80 | Note | Fuse 2.0A 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-8) | 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 "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 $\pm 5\%$, 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.

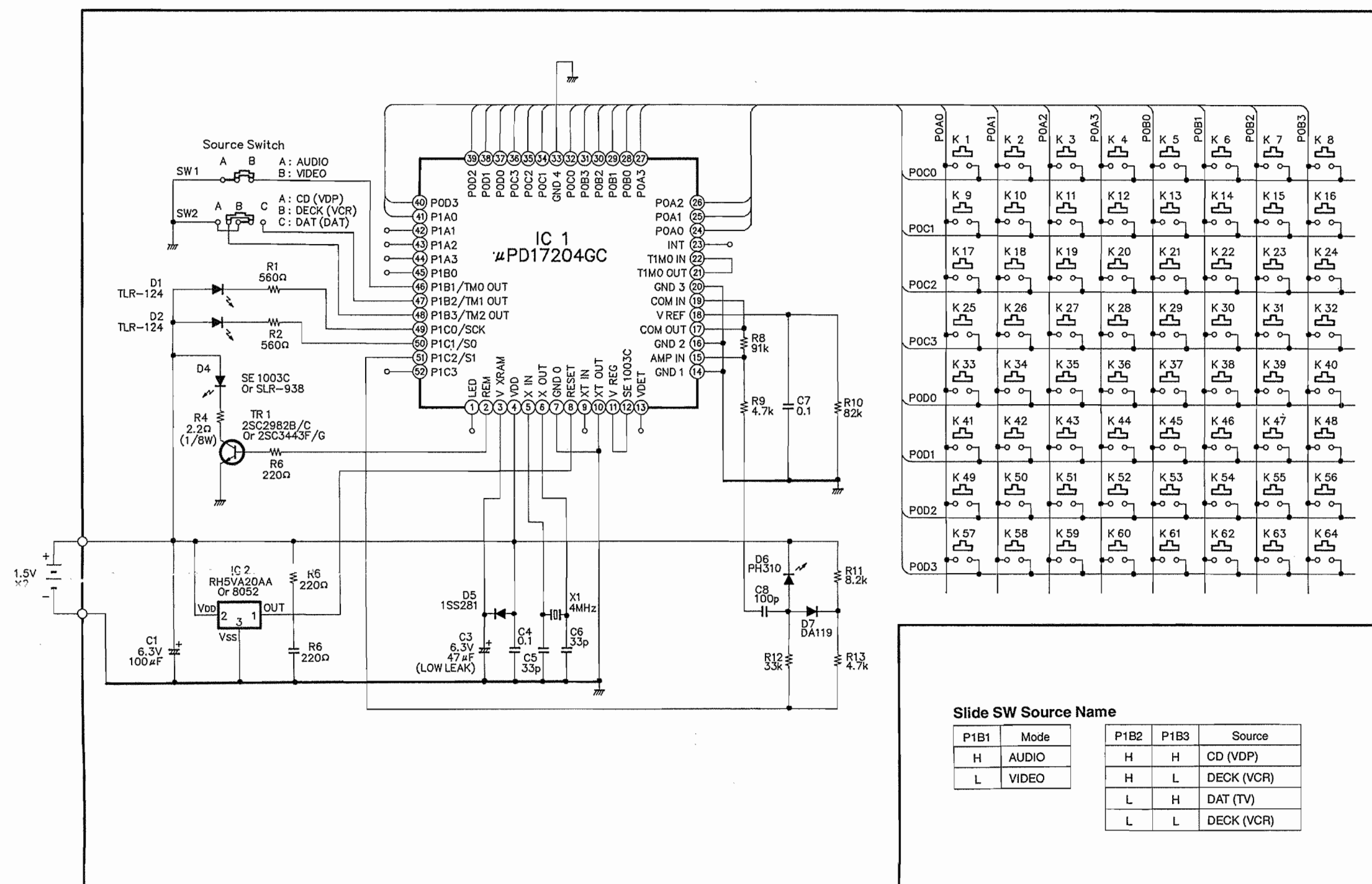
ADDENDUM PARTS LIST

| 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) | (2) | 206 1046 027 | 206 1046 027 | — | — |
| 23 | Fuse n A (F001) | (1) | 206 1046 014 | 206 1046 014 | 206 1036 011 | 206 1036 011 |
| 24 | Fuse n A (F005) | (1) | 206 1046 043 | 206 1046 043 | — | — |
| 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) | (1) | 206 1039 063 | 206 1039 063 | 206 1015 032 | 206 1015 032 |
| 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 | 473 7500 015 | 473 7500 015 | 473 7500 015 |
| 105 | Tapping Screw (S) 3x8 | | 473 7002 018 | 473 7002 018 | 473 7002 018 | 473 7002 018 |
| 106 | Fixing Screw | | 477 0064 107 | 477 0064 107 | 477 0064 107 | 477 0064 107 |
| 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 | Baind 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 | (1) | 515 0690 006 | — | — | — |
| | DCI Warranty Home | (1) | — | 515 0627 105 | — | — |
| 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 | 511 2661 002 |
| | | | | 511 2661 002 | (E) | (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 | | | | 1 | — | Case Top Ass'y | | 1 |
| IC1 | — | IC μPD17204GC-538 | μ-Com | 2 | — | — | | — |
| IC2 | 9H3 1000 158 | IC RH5VA20AA | VOL. Detector | 3 | — | Switch Rubber | | 1 |
| TR1 | 9H3 1000 070 | Transistor 2SC3443BF/BG | Chip | 4 | 9H3 1000 146 | Case Bottom Ass'y | | 1 |
| or | 9H3 1000 070 | Transistor 2SC2982B/C | Chip | 5 | 9H3 1000 147 | Cover Battery | | 1 |
| D1,2 | 9H3 1000 028 | LED TLR124 | Visible-Red | 6 | 9H3 1000 148 | IR Filter | | 1 |
| D4 | 9H3 1000 131 | LED SE1003-C | Infrared | 7 | 9H3 1000 150 | Switch Button | | 2 |
| D5 | 9H3 1000 087 | Diode 1SS281 (1) | | 8 | — | — | | — |
| D6 | 9H3 1000 029 | Diode PH310 | Photo-PIN | 9 | 9H3 1000 153 | Spring Coil | | 1 |
| D7 | 9H3 1000 071 | Diode DA119/DA118 | Chip | 10 | 9H3 1000 151 | Spring Coil | | 1 |
| or | — | Diode 1SS196 | | 11 | 9H3 1000 152 | Spring Coil | | 1 |
| RESISTORS GROUP | | | | 12 | 9H3 1000 154 | Tapping Screw 2x6 | | 1 |
| R1,2 | 247 0006 988 | Chip Resistor 560ohm, 1/10W | RM73B-561J | 13 | 9H3 1000 155 | Tapping Screw 2x5 | | 1 |
| R4 | 247 0001 909 | Chip Resistor 2.2ohm, 1/10W | RM73B-2R2J | 14 | 9H3 1000 156 | P.W.Unit Ass'y | | 1 ^s |
| R6 | 247 0005 989 | Chip Resistor 220ohm, 1/10W | RM73B-221J | 15 | — | Label | | 1 |
| R7 | 247 0012 927 | Chip Resistor 100kohm, 1/10W | RM73B-104J | 16 | — | Sheet | | 1 |
| R8 | 247 0012 914 | Chip Resistor 91kohm, 1/10W | RM73B-913J | | | | | |
| R9 | 247 0009 901 | Chip Resistor 4.7kohm, 1/10W | RM73B-472J | | | | | |
| 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 | | | | |

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 |
| K57 | K58 | K59 | K60 |
| K61 | K62 | K63 | K64 |
| K63 | K54 | K55 | K56 |
| K45 | K46 | K47 | K48 |
| K37 | K38 | K39 | K40 |
| K29 | K30 | K31 | K32 |
| K21 | K22 | K23 | K24 |
| K13 | K14 | K15 | K16 |
| K5 | K6 | K7 | K8 |