

# ROTEL®

## RSX-965

SURROUND SOUND RECEIVER

Version 3 specific information is  
located at the end of this manual.

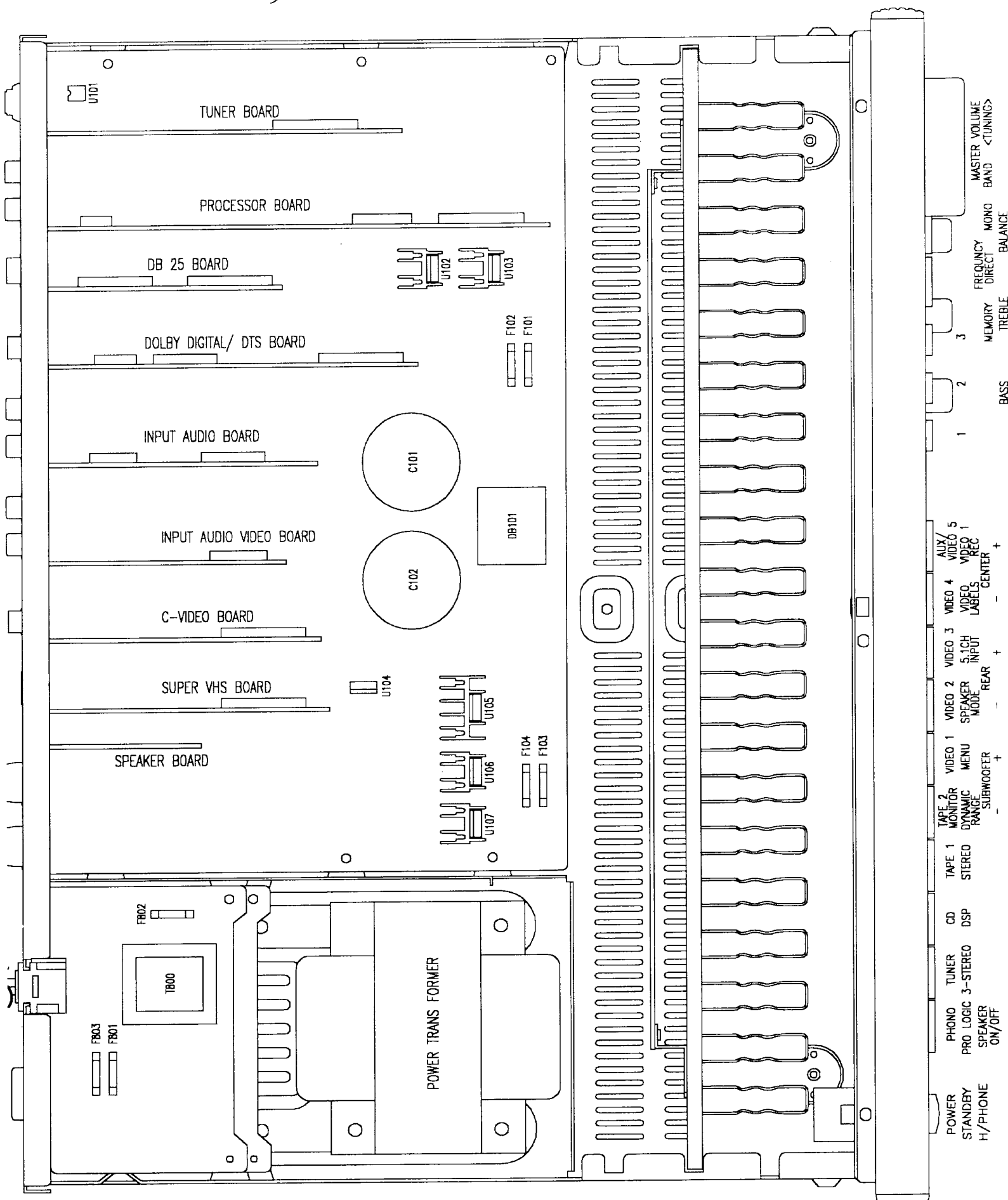
## Technical Manual

### TABLE OF CONTENTS

|                                   |    |
|-----------------------------------|----|
| Chassis Layout .....              | 03 |
| Specification .....               | 04 |
| Adjustement .....                 | 07 |
| Wiring Diagram .....              | 10 |
| Printed Circuit Boards .....      | 12 |
| Schematic Diagram .....           | 26 |
| PC Board Ass'y Parts List .....   | 57 |
| Exploded View .....               | 68 |
| Mechanical Ass'y Parts List ..... | 71 |

**\*\*PLEASE BE AWARE THAT SOME PAGE NUMBERS ARE MISSING FROM THIS  
MANUAL BUT THOSE THAT ARE MISSING WERE BLANK IN THE ORIGINAL\*\***

# Chassis Layout



# Specifications

## AUDIO SECTION

|                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| Continuous Power Output(20-20kHz,<0.09%, 8ohms) | 75watts/ch(all channel driven)    |
| Total Harmonic Distortion                       | <0.09% at rated power             |
| Intermodulation Distortion(60 Hz:7kHz)          | <0.09% at rated power             |
| Frequency Response (line levels)                | 10-70kHz, $\pm 3$ dB              |
| Input Sensitivity / Impedance(line level)       | 200mV / 47kohms                   |
| Input Sensitivity / Impedance(phono input)      | 3.5mV / 47kohms                   |
| Tone Control - Bass / Treble                    | $\pm 8$ dB at 100Hz / 10kHz       |
| Signal to Noise Ratio (IHF "A" weighted)        | 92dB(Stereo), 70dB(Dolby Digital) |

## VIDEO SECTION

|                       |               |
|-----------------------|---------------|
| Frequency Response    | 3-10MHz, -3dB |
| Signal to Noise Ratio | 45dB          |
| Input Impedance       | 75 ohms       |
| Output Impedance      | 75 ohms       |
| Output Level          | 1volt         |

## FM TUNER SECTION

|                                |                    |
|--------------------------------|--------------------|
| Usable Sensitivity             | 14.2dBf            |
| Signal to Noise Ratio(at65Bbf) | 70dBf              |
| Harmonic Distortion(at65Bbf)   | 0.3%               |
| Stereo Separation(1kHz)        | 45dB               |
| Output Level                   | 550mV              |
| Antenna Input                  | 75 ohms unbalanced |

## AM TUNER SECTION

|                       |              |
|-----------------------|--------------|
| Sensitivity           | 500uV/m      |
| Signal to Noise Ratio | 40dB         |
| Output Level          | 160 mV       |
| Antenna               | Loop Antenna |

## GENERAL

|                                     |                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Power Requirements                  | 115 Volts,60Hz or<br>230 Volts,50Hz                                                                          |
| Power Consumption                   | 400watts                                                                                                     |
| Dimensions(W $\times$ H $\times$ D) | 450 $\times$ 158 $\times$ 400mm<br>17 $\frac{3}{4}$ " $\times$ 6 $\frac{1}{4}$ " $\times$ 15 $\frac{3}{4}$ " |
| Weight(net)                         | 15 Kg/ 33lb                                                                                                  |

# DOLBY DIGITAL SECTION

Measurements Conditions, unless otherwise noted: Input Function: Video4

Digital Input Mode: Auto

Speaker Mode : configuration 1, Configuration 2, Sub-Woofer: YES

Main Vol Position : 100mVrms Output Position

Trim Vol Position : All "0 dB"

Test Point : Pre - Out

-20dB= DOLBY TEST DVD VER 1.0(#29,30,31)

Test disc : DOLBY TEST DVD VERSION 1.0

DATE :

|    |   |                                                                  |                            |                |                 |          |                         |        | MEASUREMENT               |      |   |   |    |    |    |  |
|----|---|------------------------------------------------------------------|----------------------------|----------------|-----------------|----------|-------------------------|--------|---------------------------|------|---|---|----|----|----|--|
| NO |   | DESCRIPTION                                                      |                            | SIGNAL         | INPUT           | Track No | UNIT                    | LIMIT  | NOMINAL                   | L    | C | R | LS | RS | SW |  |
| ★  | 1 | Output Level Main Vol Level:69<br>Speaker Mode : configuration 1 |                            | 1kHz           | -20dBFS         | 30       | mV                      | 100±20 | 100±10                    |      |   |   |    |    |    |  |
|    |   |                                                                  |                            | 30Hz           | -20dBFS         | 48       | mV                      | 320±40 | 320±20                    |      |   |   |    |    |    |  |
| ★  | 2 | Output Level at MIN. VOL.,WTD "A"                                |                            | 1kHz           | -20dBFS         | 30       | mV                      | ≤0.5   | ≤0.3                      |      |   |   |    |    |    |  |
|    |   |                                                                  |                            | 30Hz           | -20dBFS         | 48       | mV                      | ≤0.5   | ≤0.3                      |      |   |   |    |    |    |  |
| ★  | 3 | S/N Ratio                                                        | CCIR/ARM,<br>400Hz HPF WTD | 1kHz           | -20dBFS         | 34.35    | dB                      | ≤-65   | ≤-68                      |      |   |   |    |    |    |  |
| ★  | 4 | Total Harmonic Distortion                                        | Rated power output         | 1kHz           | -20dBFS         | 30       | %                       | ≤0.3   | ≤0.2                      |      |   |   |    |    |    |  |
| ★  | 5 | Channel Separation                                               |                            | L              | 1kHz            | 0dBFS    | 65                      | dB     | All Channel except L/R/SW |      |   |   |    |    |    |  |
|    |   |                                                                  |                            | C              | 1kHz            | 0dBFS    | 66                      | dB     | ≤-65                      | ≤-70 |   |   |    |    |    |  |
|    |   |                                                                  |                            | R              | 1kHz            | 0dBFS    | 67                      | dB     | L<- ->R                   |      |   |   |    |    |    |  |
|    |   |                                                                  |                            | LS             | 1kHz            | 0dBFS    | 68                      | dB     | ≤-50                      | ≤-55 |   |   |    |    |    |  |
|    |   |                                                                  |                            | RS             | 1kHz            | 0dBFS    | 69                      | dB     | S/W<- ->Other CH          |      |   |   |    |    |    |  |
|    |   |                                                                  |                            | SW             | 1kHz            | 0dBFS    | 70                      | dB     | ≤-65                      | ≤-70 |   |   |    |    |    |  |
| ★  | 6 | Frequency Response                                               |                            | Configuration1 | 30Hz(ref. 1kHz) | -20dBFS  | 48(43:ref)              | dB     | -5±1                      | -5   |   |   |    |    |    |  |
|    |   |                                                                  |                            |                | 30Hz(ref. 1kHz) | -20dBFS  | 43,44,45,46, 47(43:ref) | dB     | -15±1                     | -15  |   |   |    |    |    |  |
|    |   |                                                                  |                            |                | 1kHz(ref. 1kHz) | -20dBFS  | 43(43:ref)              | dB     | ±1                        | 0    |   |   |    |    |    |  |
|    |   |                                                                  |                            | Configuration2 | 30Hz(ref. 1kHz) | -20dBFS  | 48(43:ref)              | dB     | +5±1                      | +5   |   |   |    |    |    |  |
|    |   |                                                                  |                            |                | 30Hz(ref. 1kHz) | -20dBFS  | 44,46,47 (43:ref)       | dB     | -5±1                      | -5   |   |   |    |    |    |  |
|    |   |                                                                  |                            |                | 1kHz(ref. 1kHz) | -20dBFS  | 43,44,45,46, 47(43:ref) | dB     | ±1                        | 0    |   |   |    |    |    |  |

# DTS SECTION

Measurements conditions, unless otherwise noted: Input Function: Video4

Digital Input Mode: Auto

Speaker Mode : configuration 1, Configuration 2, Sub-Woofer: YES

Main Vol Position : 100mVrms Output Position

Trim Vol Position : All "0 dB"

Test Point : Pre - Out

-20dB= Consumer Product evaluation test disc(#16,21)

Test disc : Consumer Product evaluation test disc

|    |   |                                   |                    |          |                  |           |      |        | MEASUREMENT               |      |   |   |    |    |    |  |
|----|---|-----------------------------------|--------------------|----------|------------------|-----------|------|--------|---------------------------|------|---|---|----|----|----|--|
| NO |   | DESCRIPTION                       |                    | SIGNAL   | INPUT            | Track No  | UNIT | LIMIT  | NOMINAL                   | L    | C | R | LS | RS | SW |  |
| ★  | 1 | Output Level Main Vol Level:69    |                    | 1kHz     | -20dBFS          | 21        | mV   | 100±20 | 100±10                    |      |   |   |    |    |    |  |
|    |   |                                   |                    | 30Hz     | -20dBFS          | 16        | mV   | 100±20 | 100±10                    |      |   |   |    |    |    |  |
| ★  | 2 | Output Level at MIN. VOL.,WTD “A” |                    | 1kHz     | -20dBFS          | 21        | mV   | ≤0.5   | ≤0.3                      |      |   |   |    |    |    |  |
|    |   |                                   |                    | 30Hz     | -20dBFS          | 16        | mV   | ≤0.5   | ≤0.3                      |      |   |   |    |    |    |  |
| ★  | 3 | S/N Ratio                         | CCIR/ARM,WTD       | 1kHz     | -20dBFS          | 2(ref:21) | dB   | ≤-65   | ≤-68                      |      |   |   |    |    |    |  |
| ★  | 4 | Total Harmonic Distortion         | Rated power output | 1kHz     | -20dBFS          | 32        | %    | ≤0.3   | ≤0.2                      |      |   |   |    |    |    |  |
| ★  | 5 | Channel Separation                |                    | L        | 1kHz             | 0dBFS     | 36   | dB     | All Channel except L/R/SW |      |   |   |    |    |    |  |
|    |   |                                   |                    | C        | 1kHz             | 0dBFS     | 30   | dB     | ≤-65                      | ≤-70 |   |   |    |    |    |  |
|    |   |                                   |                    | R        | 1kHz             | 0dBFS     | 27   | dB     | L<-->R                    |      |   |   |    |    |    |  |
|    |   |                                   |                    | LS       | 1kHz             | 0dBFS     | 28   | dB     | ≤-50                      | ≤-55 |   |   |    |    |    |  |
|    |   |                                   |                    | RS       | 1kHz             | 0dBFS     | 29   | dB     | SW<-->Other CH            |      |   |   |    |    |    |  |
|    |   |                                   |                    | SW       | 1kHz             | 0dBFS     | 31   | dB     | ≤-65                      | ≤-70 |   |   |    |    |    |  |
| ★  | 6 | Frequency Response                |                    | Ref:30Hz | 20Hz-300Hz sweep | -20dBFS   | 16   | dB     | ±1                        | ±0.5 |   |   |    |    |    |  |
|    |   |                                   |                    | Ref:1kHz | 20Hz-20kHz sweep | -20dBFS   | 21   | dB     | ±1                        | ±0.5 |   |   |    |    |    |  |

## ■ FM

### \* Necessary measurement equipment

- RDS/STEREO Multiplexer 1 unit
- FM/AM Signal Generator 1 unit
- Audio Signal Analyzer 1 unit
- Oscilloscope 1 unit
- Digital Volt Meter (DVM) 1 unit

### (A) Center adjust

- ◆ RDS/STEREO Multiplexer Setting
  - MODE : MONO
  - Audio Frequency : 1KHz
- ◆ FM Signal Generator Setting
  - Deviation : 75KHz
  - Radio Frequency : 98.1MHz
  - Output Level : 66dB
- ◆ RSX-965 Setting
  - FM Frequency : 98.1MHz
  - FM MODE : MONO

- ① Turn FM Signal Generator Modulation on
- ② Connect DVM (+)(-) terminals to both ends of resistor R726 and measure the volt.
- ③ Make this measured volt '0' by adjusting T704(FM-DET-A Coil). ( The adjustment should be within  $\pm 2\text{mV}$ .)
- ④ After this adjustment, measure THD(Total Harmonic Distortion) with Audio Signal Generator.
- ⑤ Adjust THD to minimum point with T705(FM-DET-B Coil). ( THD should be within 0.5% )

### (B) Channel Separation adjust

- ◆ RDS/STEREO Multiplexer Setting
  - MODE : STEREO ( ONLY L-CH or R-CH Signal OUT )
  - Audio Frequency : 1KHz
- ◆ FM Signal Generator Setting
  - Deviation : 75KHz
  - Radio Frequency : 98.1MHz
  - Output Level : 66dB
- ◆ RSX-965 Setting
  - FM Frequency : 98.1MHz
  - FM MODE : STEREO

- ① Turn FM Signal Generator Modulation on after modulating only L-CH or R-CH at STEREO Multiplexer.
- ② Confirm if 'STEREO' indicator is lighted on on the display
- ③ Measure output level via Audio Signal Analyzer and make the level as standard.
- ④ Turn FM Signal Generator Modulation on after modulating only R-CH or L-CH at STEREO Multiplexer.
- ⑤ Measure output level via Audio Signal Analyzer (measure per a "dB")
- ⑥ Adjust output level to minimum position with VR702. ( lower than -40dB )

### (C) TUNED Level adjust

- ◆ RDS/STEREO Multiplexer Setting
  - MODE : STEREO
  - Audio Frequency : 1KHz
- ◆ FM Signal Generator Setting
  - Deviation : 75KHz
  - Radio Frequency : 98.1MHz
  - Output Level : 26dB
- ◆ RSX-965 Setting
  - FM Frequency : 98.1MHz
  - FM MODE : STEREO

- ① Turn FM Signal Generator Modulation 'ON' (confirm if output level is 26dB)
- ② Adjust VR702 up to the moment where 'STEREO' & 'TUNED' indicator turns OFF & ON again.
- ③ Confirm if 'STEREO' & 'TUNED' turns OFF when decreasing the output level slowly from 26dB to 25dB, 24dB ~~~.  
(Repeat the above ②~③ if not OFF in lower than 24dB.)
- ④ Push RSX-965's TUNE UP or DOWN button "long" at Signal Generator Output Level 26dB and start Auto search  
Confirm if search stops at FM Frequency 98.1MHz.  
(Examine both of High Freq. → 98.1MHz search , Low Freq. → 98.1MHz search)

## ■ AM

### \* Necessary measurement equipment :

|                          |        |
|--------------------------|--------|
| AM Signal Generator      | 1 unit |
| Audio Signal Analyzer    | 1 unit |
| DUMMY                    | 1 unit |
| Oscilloscope             | 1 unit |
| Digital Volt Meter (DVM) | 1 unit |

### (A) VT adjust

#### ◆ AM Signal Generator Setting

- ① Adjust AM Frequency of RSX-965 to 520KHz.
- ② Connect (−) terminal of DVM with GND ( or chassis ) and connect (+) terminal with Jumper J704 ( VT CHECK ) and measure voltage. ( Low Freq. VT )
- ③ Adjust VT to 1.2V with T702(AM-OSC Coil).

\* In case of RDS/ASIA version, AM freq. range is 522KHz ~ 1611KHz. So, adjust as below.  
at 522KHz, VT = 1.0V ( Low Freq. VT )

### (B) Output Level adjust

#### ◆ AM Signal Generator Setting

- Modulation : 30%
- Audio Frequency : 400Hz
- Radio Frequency : 1000KHz
- Output Level : 84dB

#### ◆ RSX-965 Setting

- AM Frequency : 600KHz

- ① Turn AM Signal Generator Modulation ON
- ② Adjust RSX-965 AM Freq. to 600KHz and measure output level with Audio Signal analyzer.
- ③ Adjust output level to maximum point with T701 ( AM-ANT ).
- ④ Adjust AM Signal Generator & RSX-965 AM Freq. to 1400KHz and measure output level.
- ⑤ Adjust output level to maximum point with TC701 (WHITE Trimmer ).
- ⑥ Repeat above ②~⑤ steps 2~3 times until adjusting to best output level.
- ⑦ Adjust AM Signal Generator & RSX-965 AM Freq. to 1000KHz and measure output level.
- ⑧ Adjust level to maximum position with T703 ( AM-IFT ).

\* In case of RDS/ASIA version, AM Freq. Step is 9KHz. So, change the standard freq. as below.  
520KHz → 522KHz ,  
1400KHz → 1404KHz ,  
1000KHz → 999KHz,

### (C) TUNED Level adjust

#### ◆ AM Signal Generator Setting

- Modulation : 30%
- Audio Frequency : 400Hz
- Radio Frequency : 1000KHz
- Output Level : 84dB

#### ◆ RSX-965 Setting

- AM Frequency : 1000KHz

- ① Turn AM Signal Generator Modulation ON ( Make sure if Output level is 84dB )
- ② Adjust VR701 ( AM-ADJ ) up to the moment where 'TUNED' indicator turns OFF & ON again.
- ③ Confirm if 'TUNED' turns OFF when decreasing the output level of AM Signal Generator slowly from 84dB to 80dB.
- ④ Push RSX-965's TUNE UP or DOWN button "long" at AM Signal Generator Output Level 84dB and start Auto search  
Confirm if search stops at AM Frequency 1000KHz.  
(Check with both of High Freq. → 1000KHz search , Low Freq. → 1000KHz search)

\* In case of RDS/ASIA version, AM Freq. Step is 9KHz.  
So, check above steps with 999KHz instead of 1000KHz.

# WIRING DI.

## FRONT B.D

- \*\* CN801 - CP808(POWER)
- \*\* CN802 - FPC101(MAIN)

## SPEAKER B.D

- \*\* CP807 - CN807(POWER)
- \*\* CP809 - CN809(HEADPHONE)
- \*\* CP810 - CN810(MAIN)
- \*\* CP811 - CN202(AMP)
- \*\* CP812 - CN203(AMP)

## STANDBY B.D

- \*\* CP800 - AC CORD
- \*\* CP801 - CN801(POWER S/W)
- \*\* CP802 - TRANS
- \*\* CP804 - CN804(POWER)

## POWER B.D

- \*\* CN804 - CP804(STANDBY)
- \*\* CN807 - CP807(SPEAKER)
- \*\* CP806 - TRANS
- \*\* CP808 - CN601(FRONT)

## POWER S/W B.D

- \*\* CN801 - CP801(STANDBY)

## HEADPHONE B.D

- \*\* CN809 - CP809(SPEAKER)

## DB-25 B.D

- \*\* CP802 - CN501(PROCESS)
- \*\* CB801 - W112(MAIN)
- \*\* CB802 - W113(MAIN)

## AMP B.D

- \*\* CP201 - CN502(PROCESS)
- \*\* CN202 - CP811(SPEAKER)
- \*\* CN203 - CP812(SPEAKER)
- \*\* CN204 - CP103(MAIN)
- \*\* CN205 - CP106(MAIN)

## TUNER B.D

- \*\* CB701 - W108(MAIN)

## PROCESS B.D

- \*\* CB801 - W501(MAIN)
- \*\* CB802 - W502(MAIN)
- \*\* CB803 - W503(MAIN)
- \*\* CN501 - CP502(PROCESS)
- \*\* CN502 - CP201(AMP)

## DOLBY DIGITAL/DTS B.D

- \*\* CB801 - W801(MAIN)
- \*\* CB802 - W802(MAIN)
- \*\* CB803 - W803(MAIN)

## INPUT AUDIO B.D

- \*\* CP301 - W119(MAIN)
- \*\* CP302 - W118(MAIN)

## INPUT VIDEO B.D

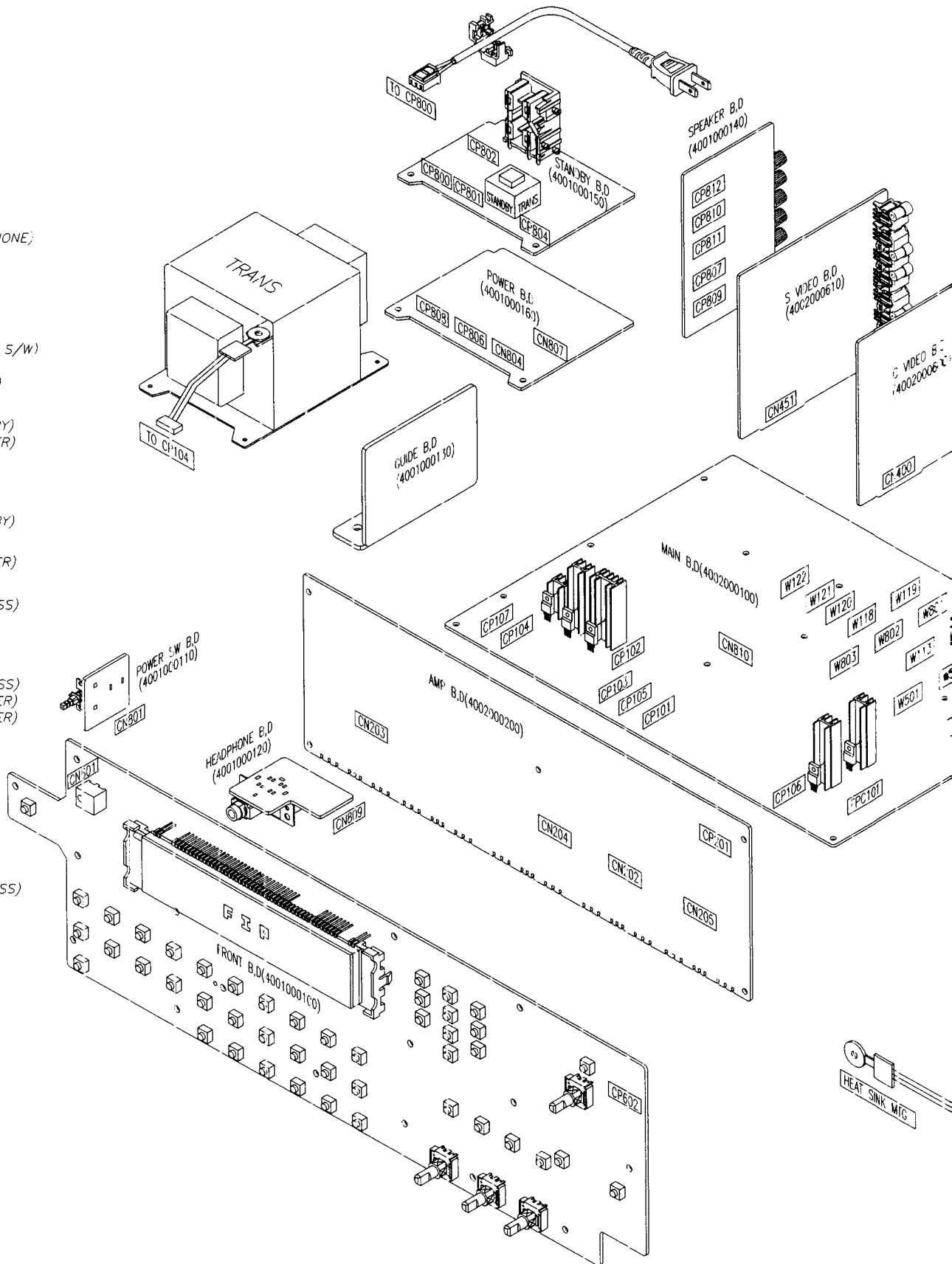
- \*\* CP351 - W120(MAIN)

## C-VIDEO B.D

- \*\* CN400 - W121(MAIN)

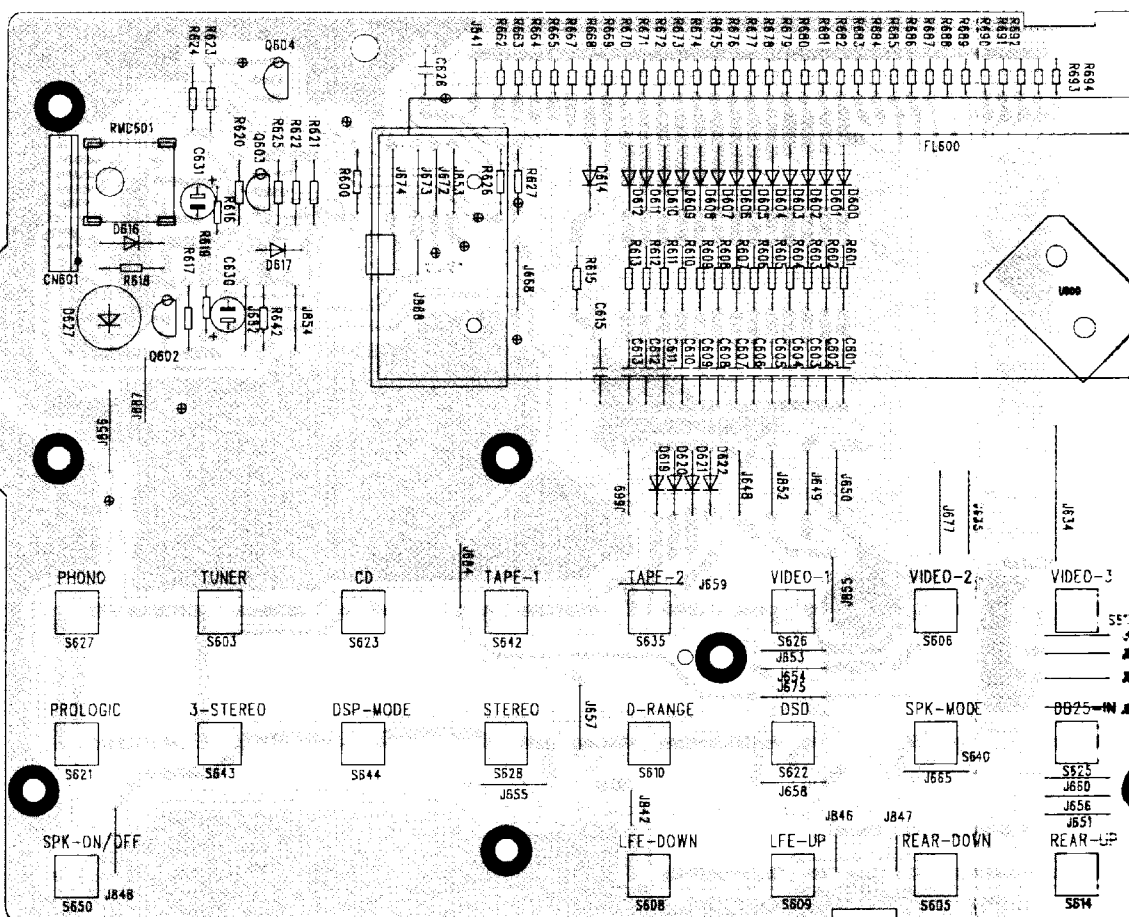
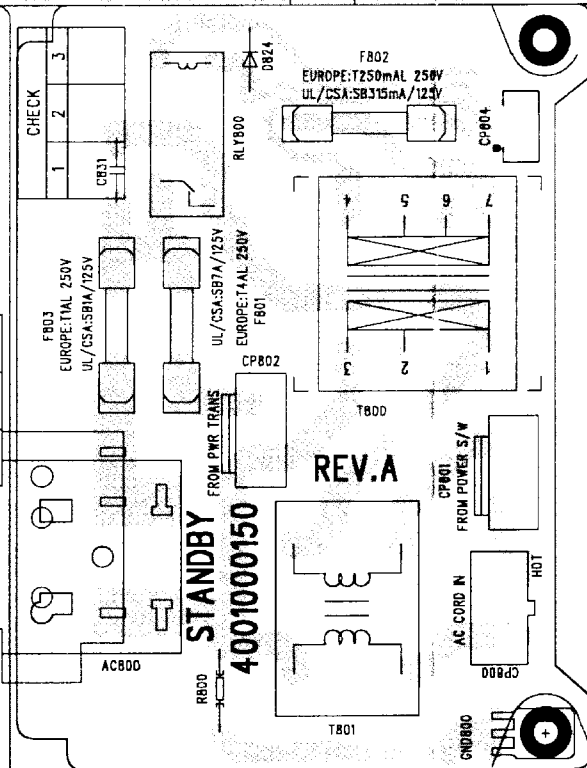
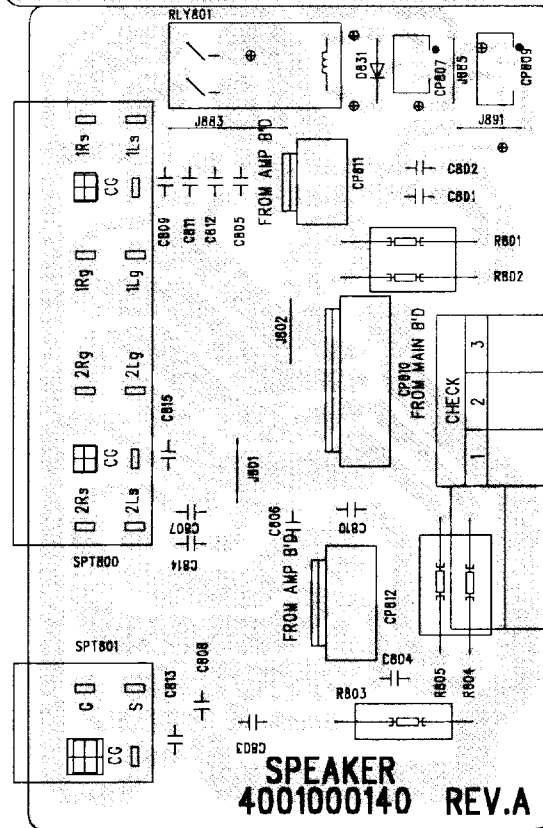
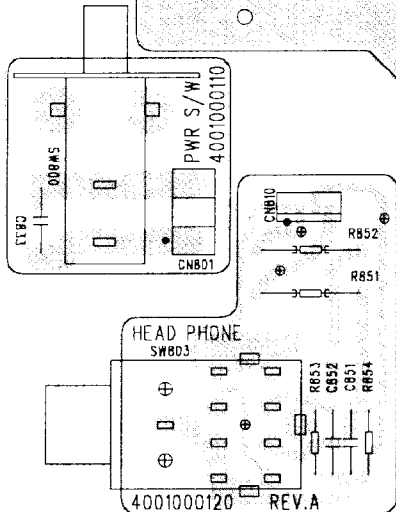
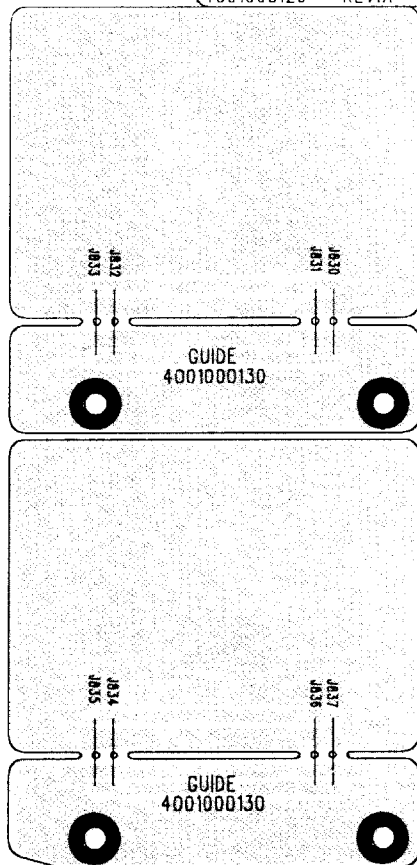
## S-VIDEO B.D

- \*\* CN451 - W122(MAIN)

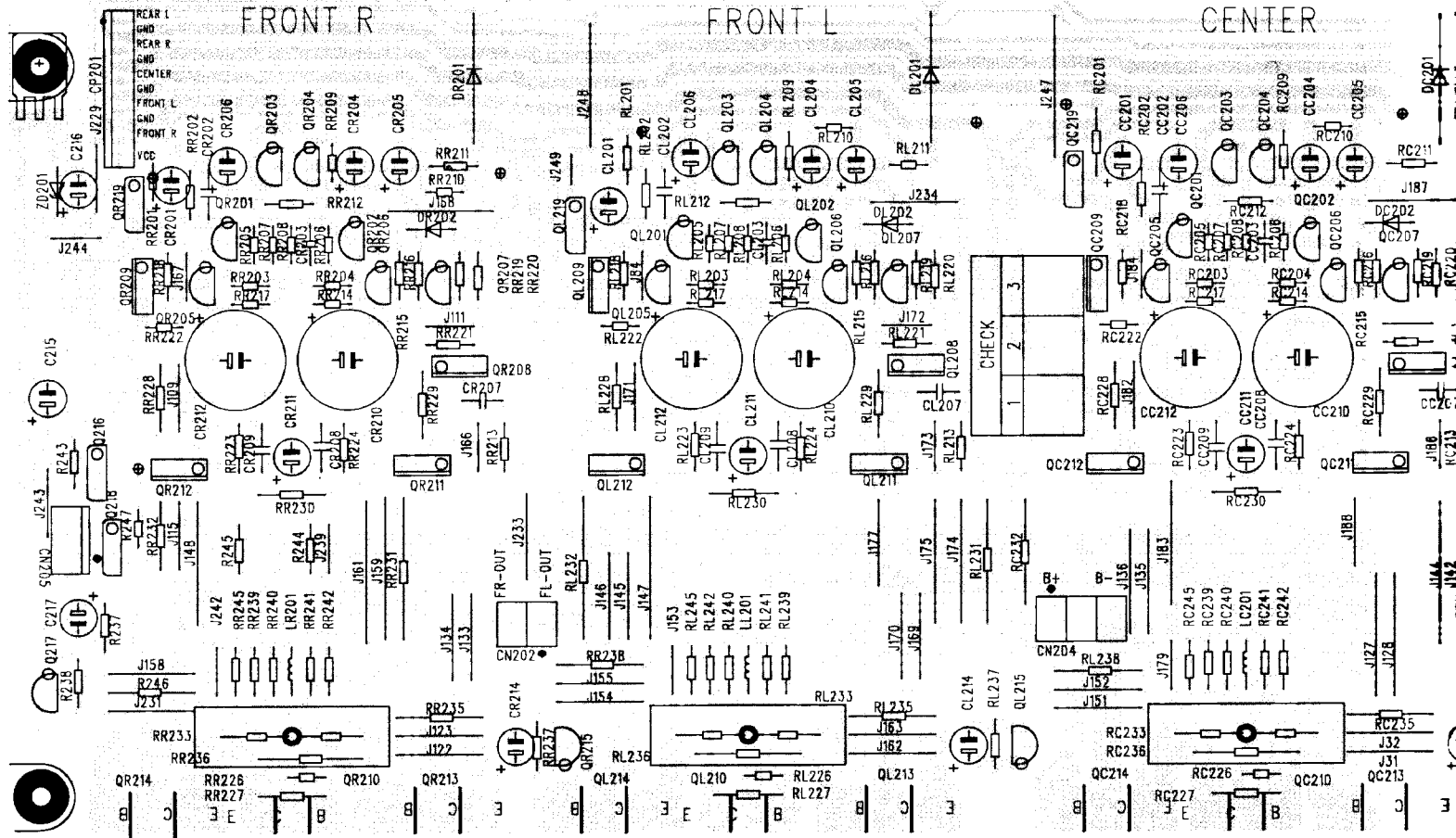


This diagram illustrates the exploded view of the Sony CCD-1000 camera chassis, showing the following components and their connections:

- Top Boards (from front to back):**
  - S VIDEO B.D. (4002000610):** Connected to the chassis via a multi-pin connector.
  - C VIDEO B.D. (4002000600):** Labeled with **CN400**.
  - INPUT VIDEO B.D. (4002000410):** Labeled with **CP351**.
  - INPUT AUDIO B.D. (4002000400):** Labeled with **CP301**.
  - DOLBY DIGITAL/DTS B.D. (4002000700):** Labeled with **CP302**, **CB902**, and **CB903**.
  - DB-25 B.D. (4001000170):** Labeled with **CP502**, **CB802**, and **CB901**.
  - PROCESS B.D. (4002000500):** Labeled with **CN502**, **CB501**, and **CB503**.
  - TUNER B.D. (4002000300):** Labeled with **CB701**.
- Bottom Board:**
  - GUIDE B.D. (4001000130):** A small board located below the main chassis.
- Connectors and Wires:**
  - TO STANDBY (CP802):** A connector with **BLACK** and **BLUE** wires.
  - TO MAIN (CF101):** A connector with **BLUE**, **BLACK**, and **BLUE** wires.
  - TO MAIN (CF107):** A connector with **GREEN**, **BROWN**, and **GREEN** wires.
  - TO MAIN (CF806):** A connector with **ORANGE**, **WHITE**, and **ORANGE** wires.
  - TRANS:** A transformer component.
  - Wires:** Various wires are labeled, including **W121**, **W120**, **W118**, **W119**, **W801**, **W802**, **W112**, **W803**, **W113**, **W503**, **W502**, **W501**, **W108**, and **W126**.
- Other Components:**
  - PC101:** A component located on the bottom board.
  - HEAT SINK MFG:** A heat sink component labeled **TO CP102**.





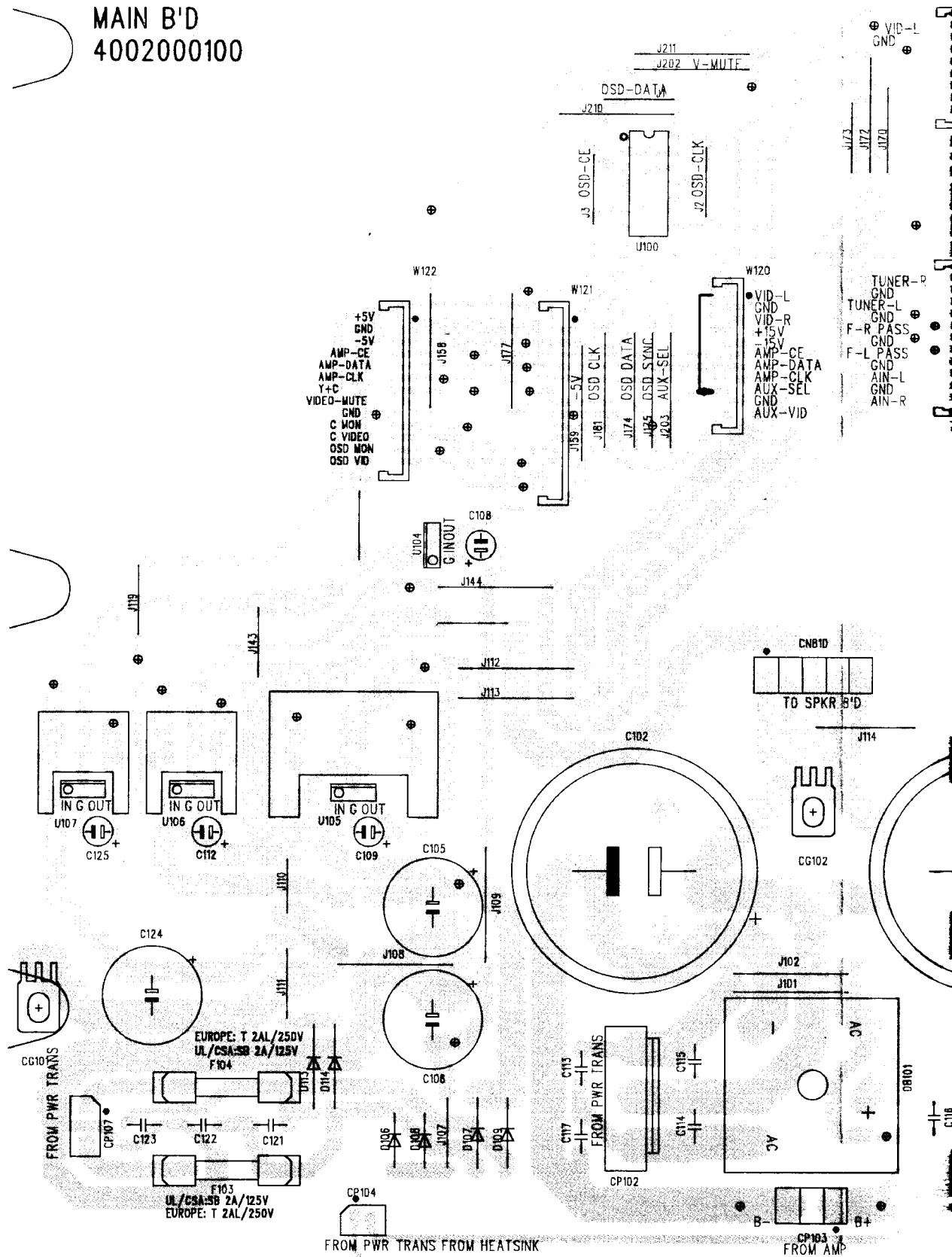


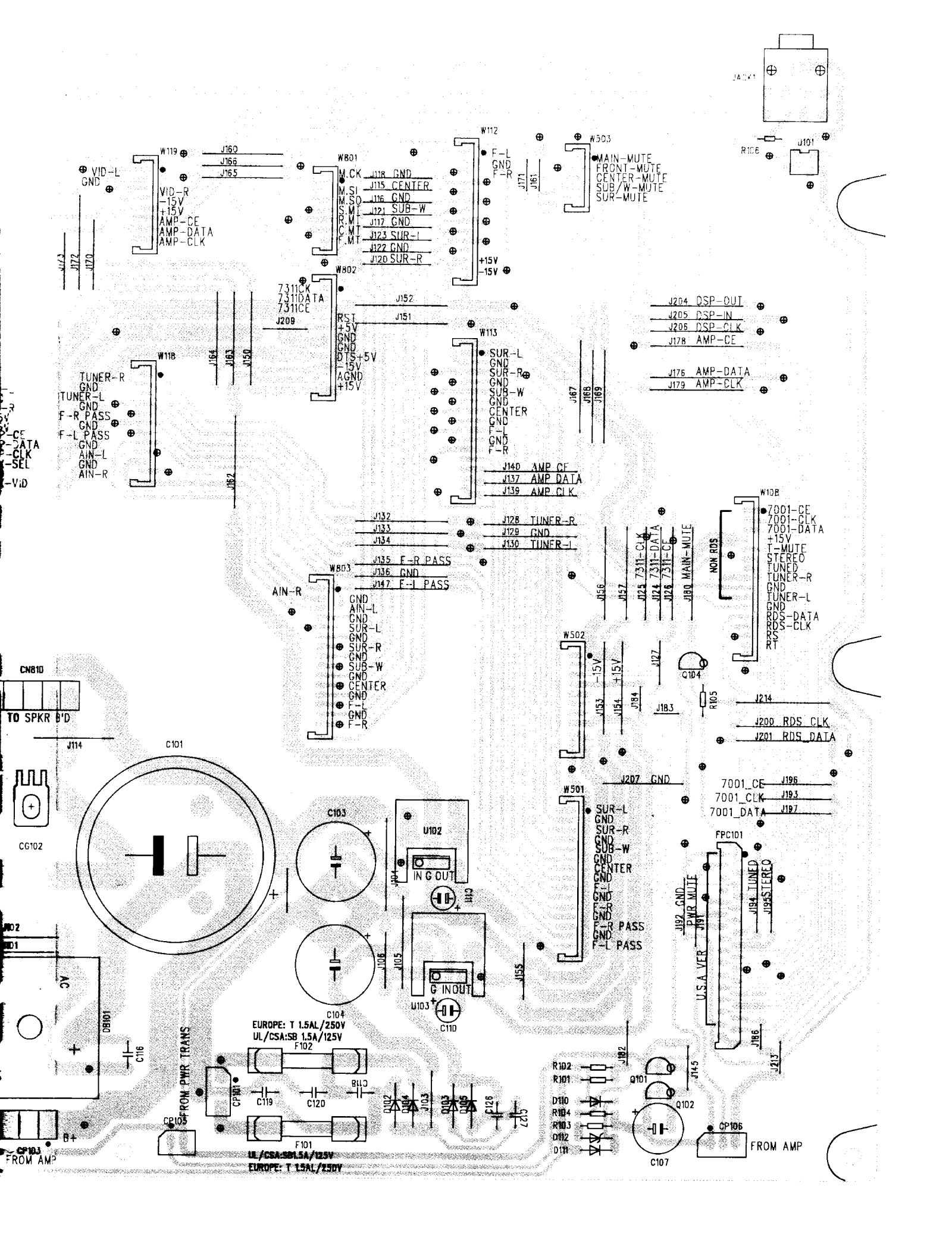
REAR L



| CHECK |   |   |
|-------|---|---|
| 1     | 2 | 3 |
|       |   |   |

MAIN B'D  
4002000100



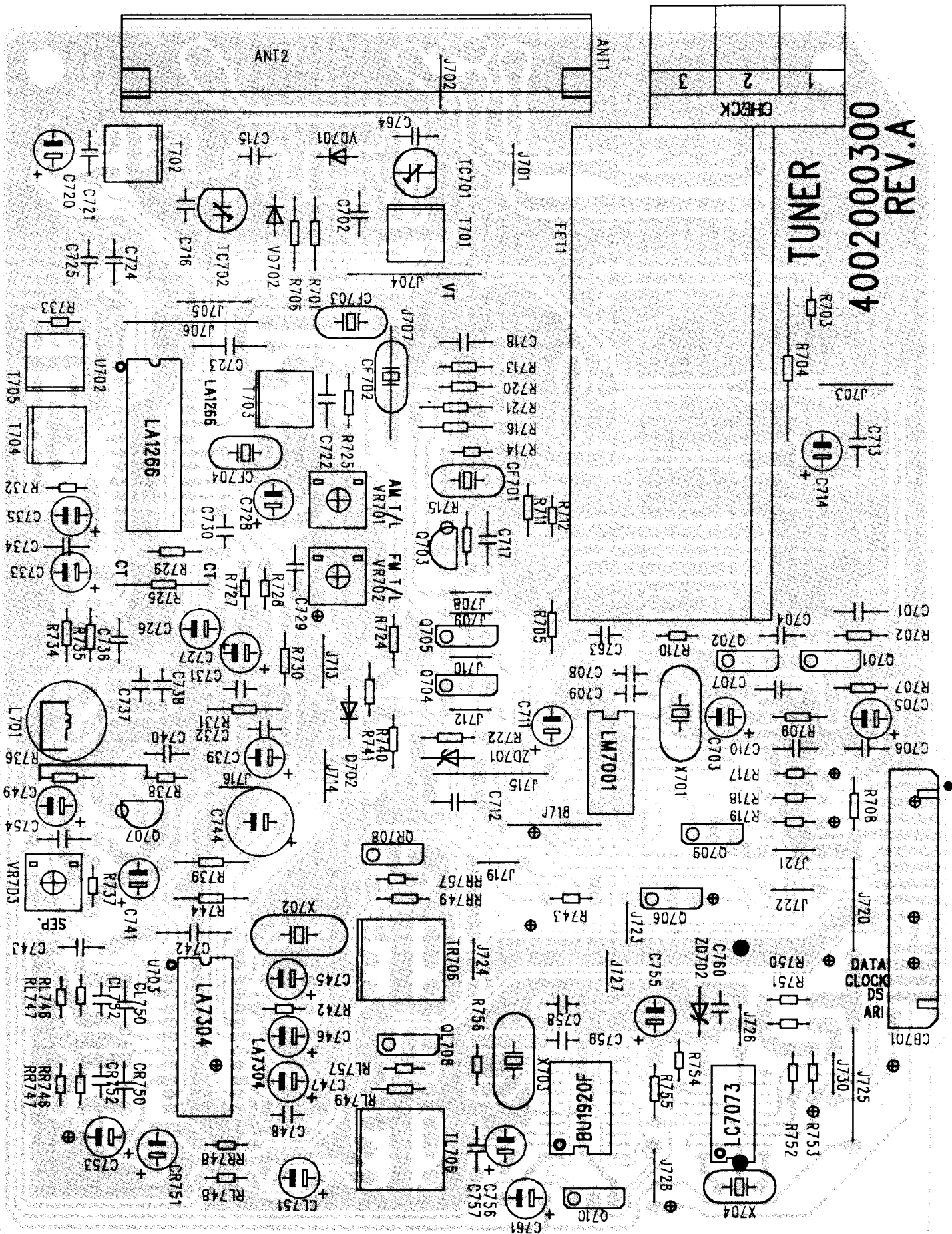


4002000300  
REV.A

# TUNER

CHECK

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|---|---|---|



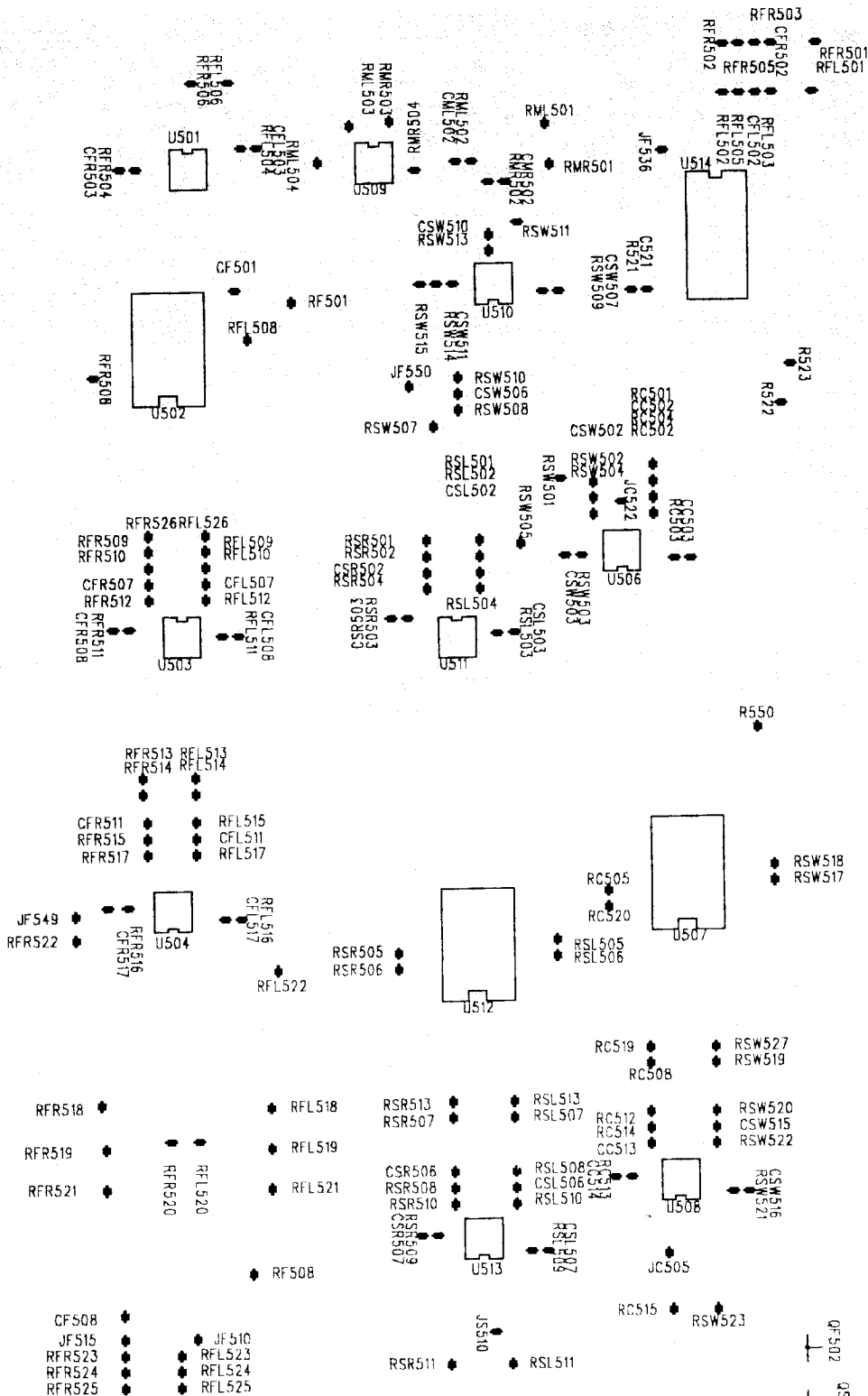
# PROCESS 4002000500 REV.A

4002000500(1/2)

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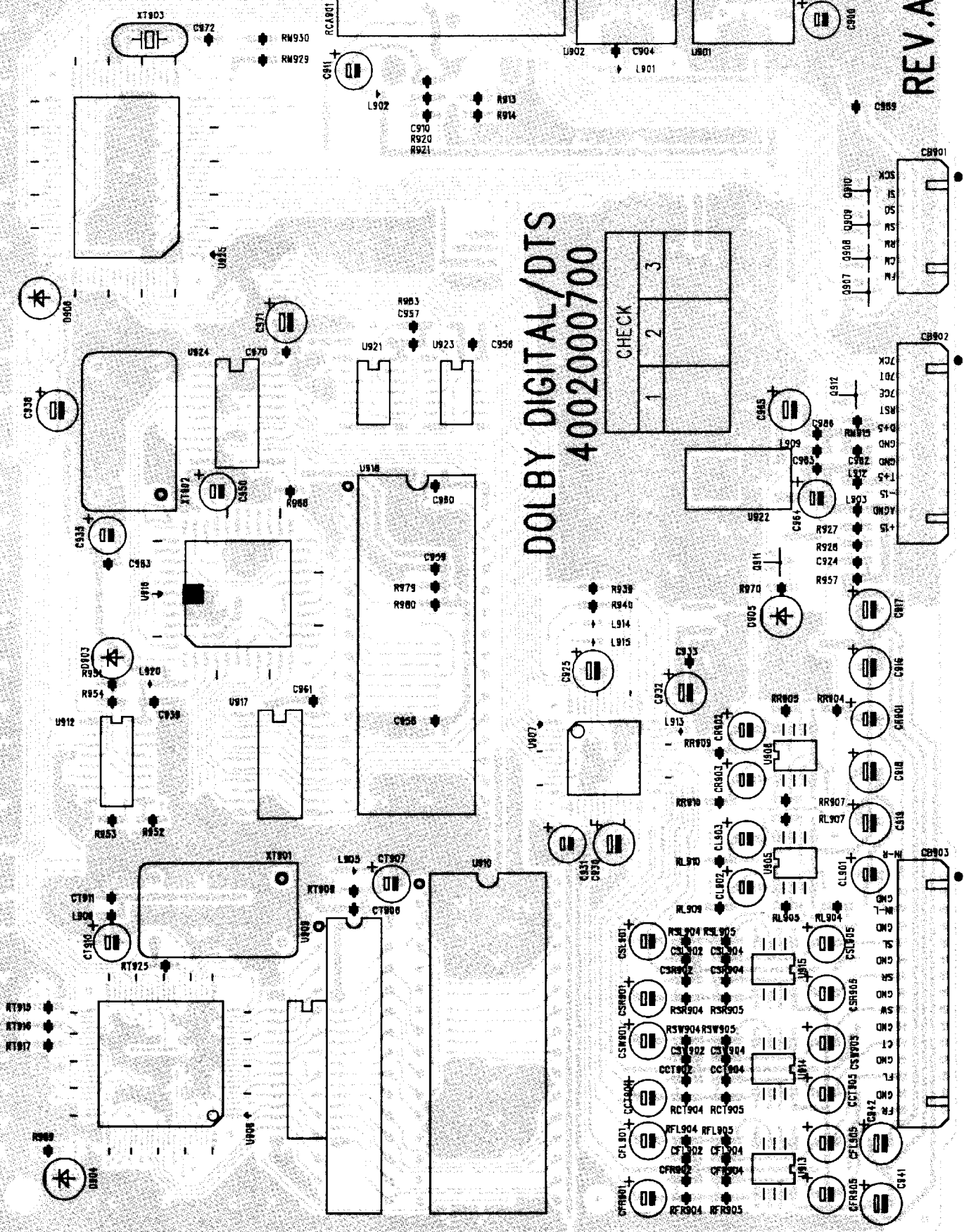
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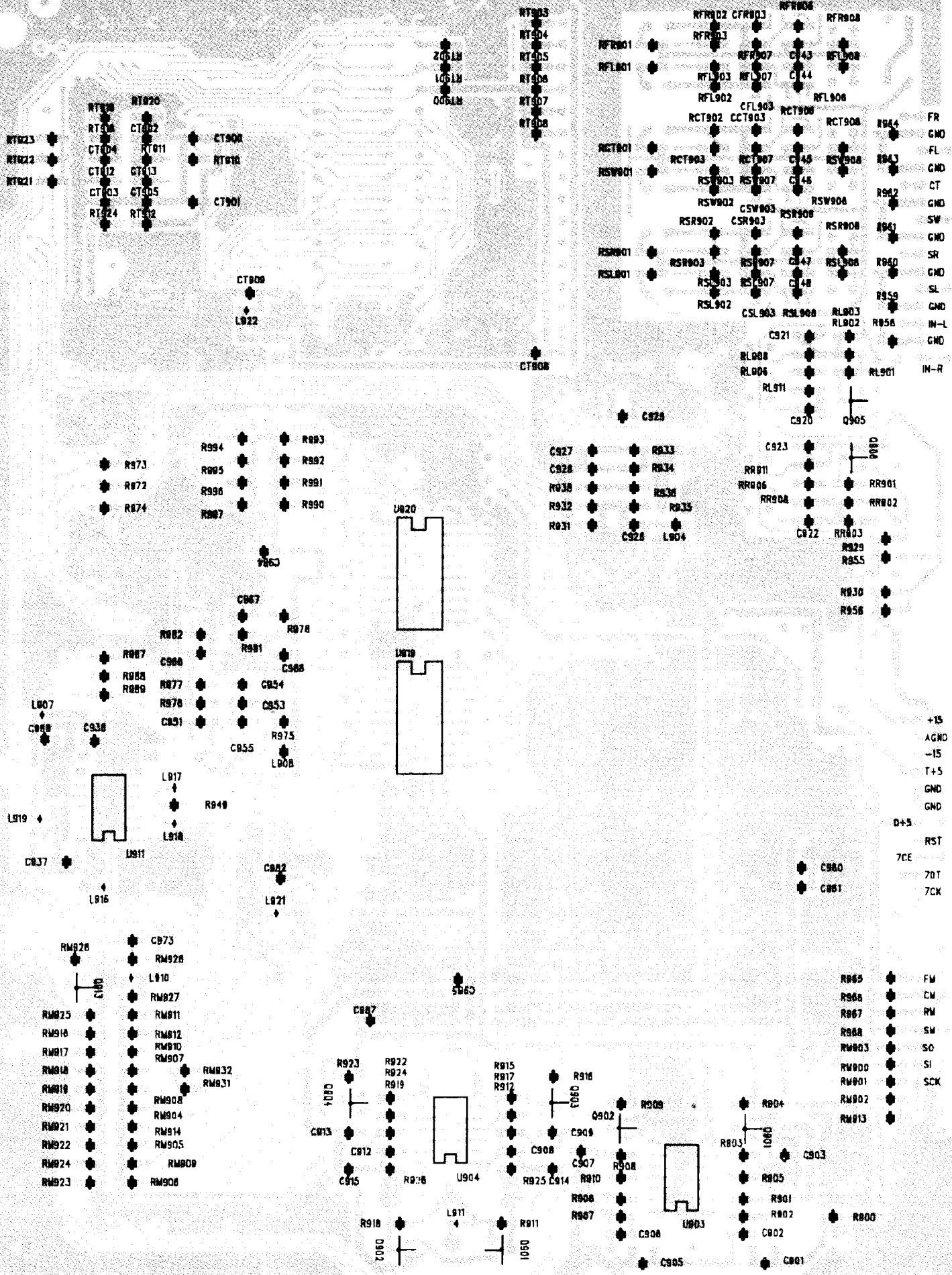
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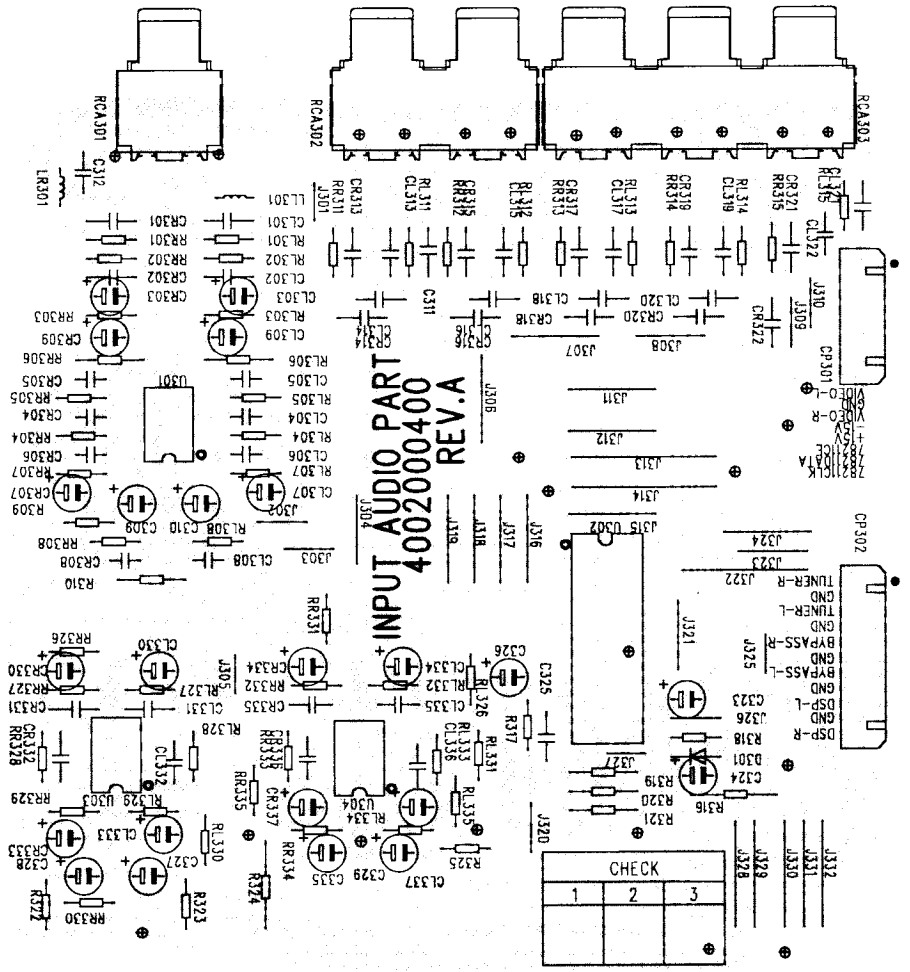
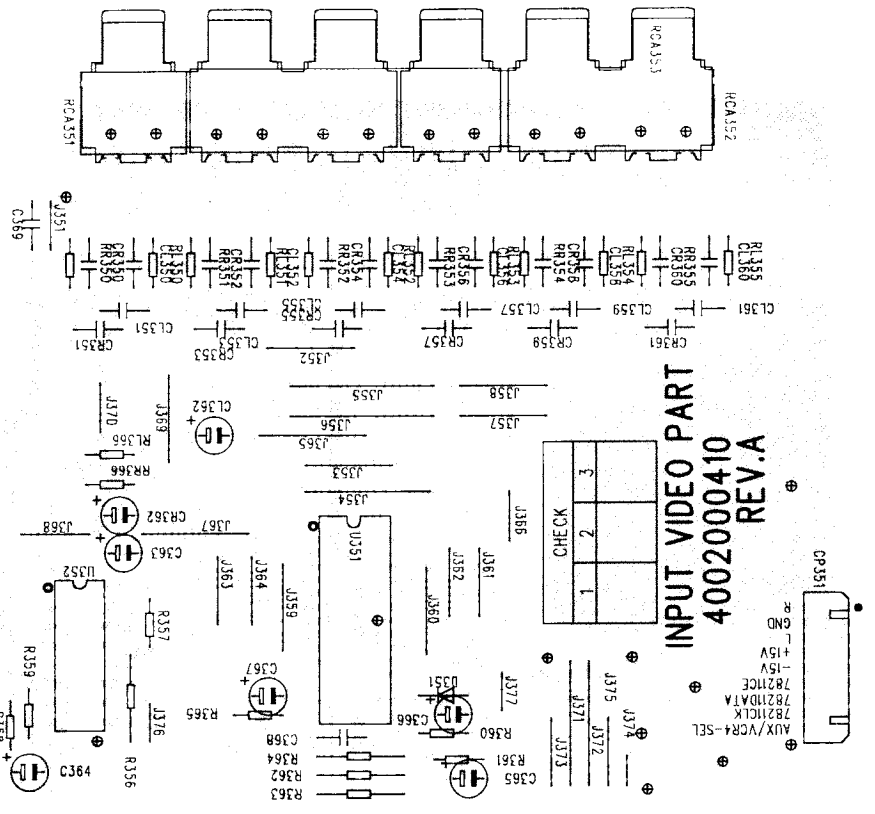
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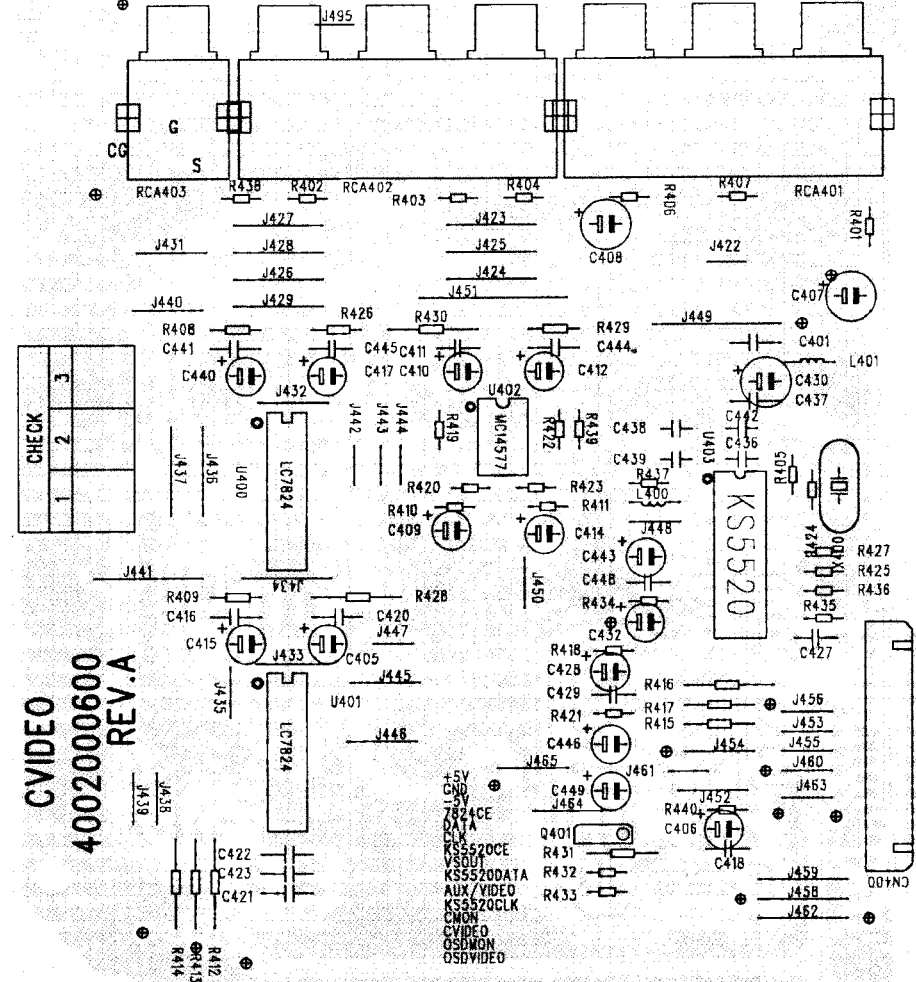
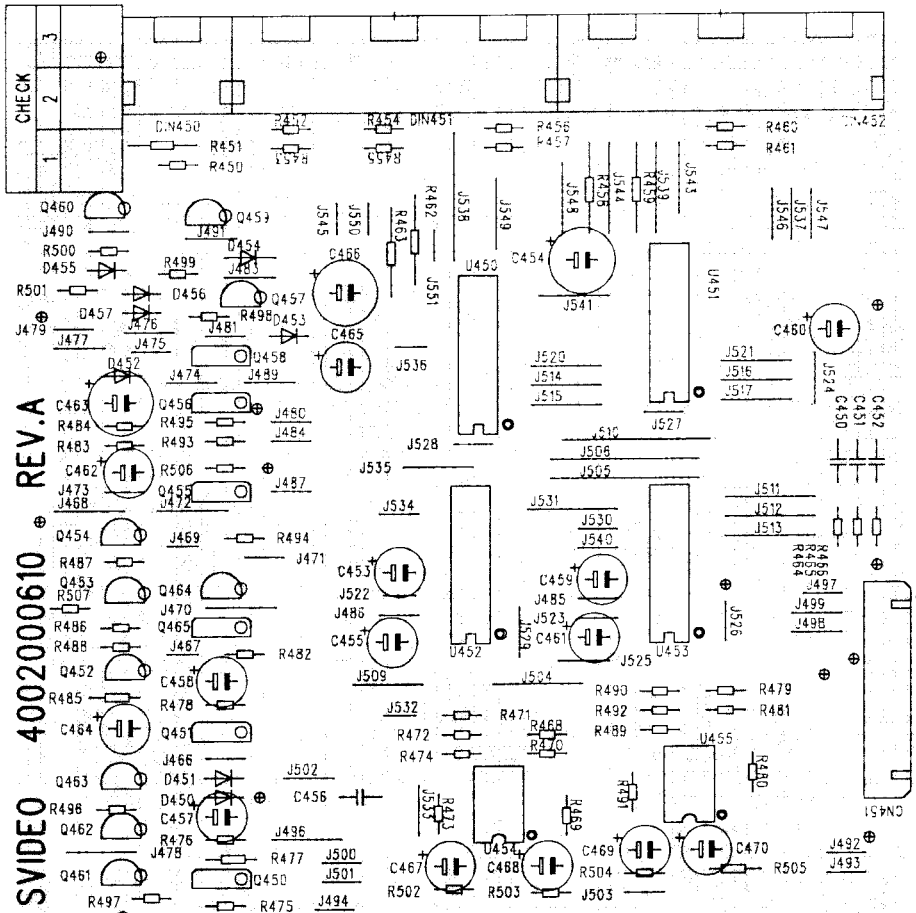
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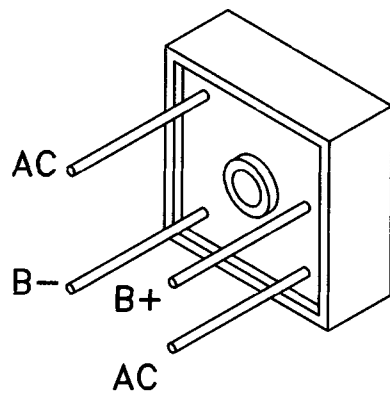




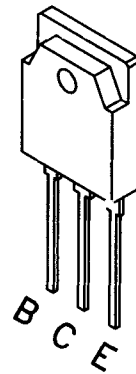
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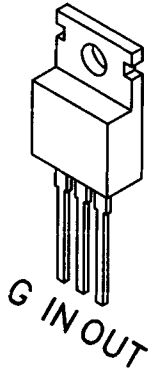




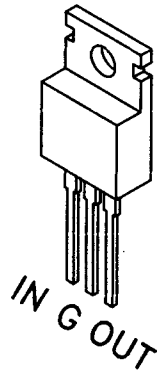
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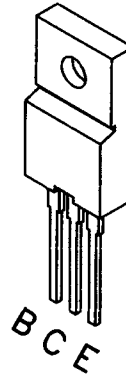
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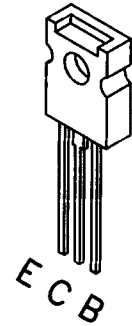
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**KIA7805  
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**2SA1859A  
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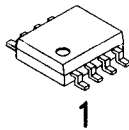
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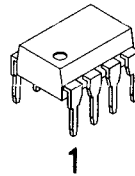
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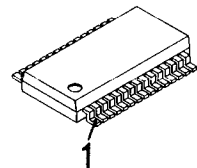
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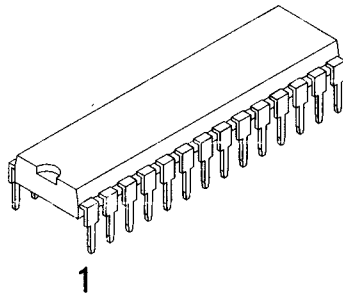
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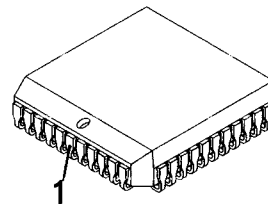
**NJM5532M  
MC14577**



**NJM7311**



**CY7C199**



**CS4923  
CS4926**

**\*PART APPEARANCE\***

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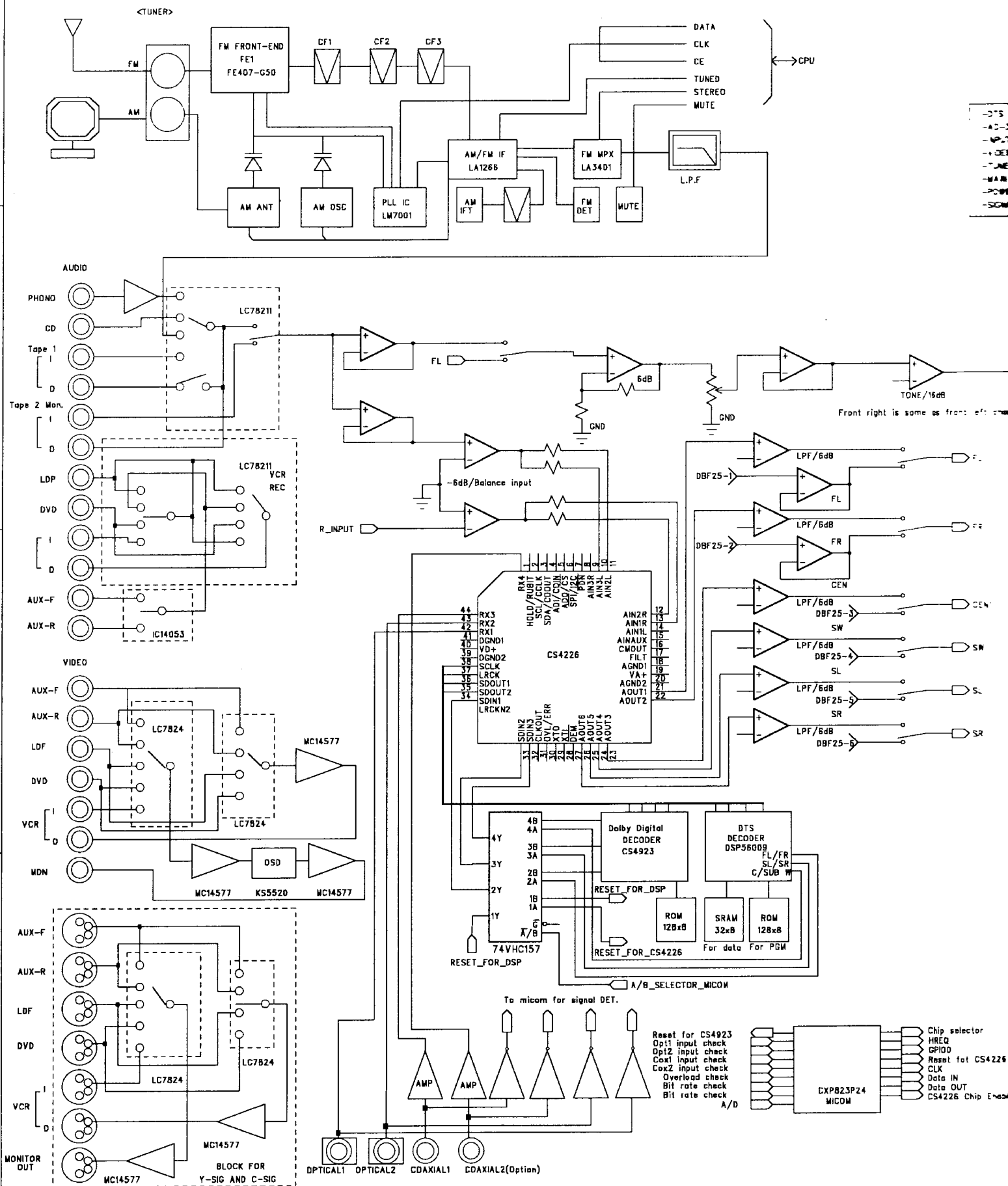
5

4

ROTEL

|            |               |  |  |
|------------|---------------|--|--|
| MODEL NAME | RSX965        |  |  |
| BOARD NAME | Block Diagram |  |  |

## BLOCK DIAGRAM



The diagram illustrates the internal components and power connections of the Sony S-1000 computer system. The central component is the CPU, which is connected to various peripheral modules and a power supply system.

**Peripheral Modules:**

- FL DISPLAY:** Connected to the CPU.
- RESO-NATOR:** Contains XT and XTAL components, connected to the CPU.
- KEY MATRIX:** Connected to the CPU.
- DIGI LINK:** Connected to the CPU.
- MULTI:** Connected to the CPU.
- RMC SENSER:** Connected to the CPU.
- COMMANDER:** Connected to the CPU via a cable.

**Power and Control Connections:**

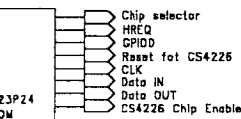
- DATA CONTROL LINE:** Connects the CPU to the DTS parts section.
- 5V REGU:** A 5V regulator connected to the CPU.
- ST-BY TRANS:** A standby transformer connected to the CPU and the AC outlet.
- MAIN POWER TRANS:** The main power transformer, which provides power to the REGULATORS and the AMPLIFIER POWER SUPPLY.

**Power Regulation and Distribution:**

- REGULATOR 5V, 5V, -5V:** Provides 5V, 5V, and -5V outputs to the CPU.
- REGULATOR 15V -15V:** Provides 15V and -15V outputs to the CPU.
- AMPLIFIER POWER SUPPLY:** Provides power to the FRONT AMP, CENTER AMP, and REAR AMP.

**AC Input and Safety:**

- AC outlet:** The main AC power input, which is grounded.
- ST-BY Relay:** A standby relay connected to the AC outlet and the ST-BY TRANS.



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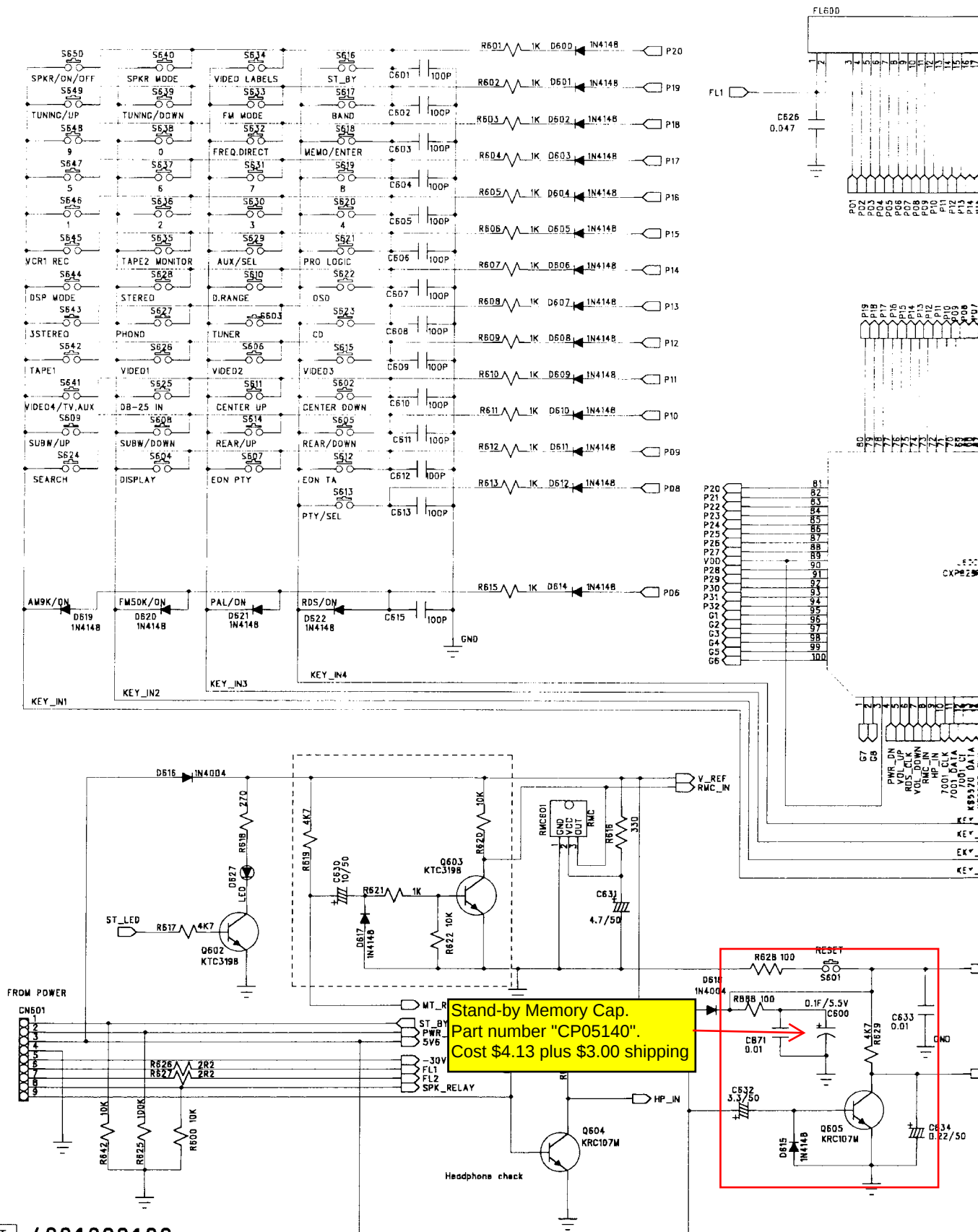
4

ROTEL

MODEL NAME RSX965

BOARD NAME FRONT

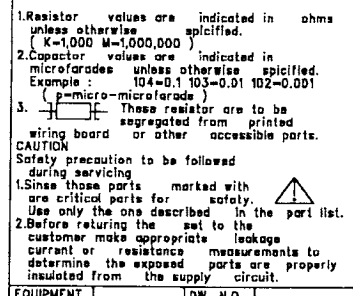
SCHEMATIC DIA



FRONT

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## 1



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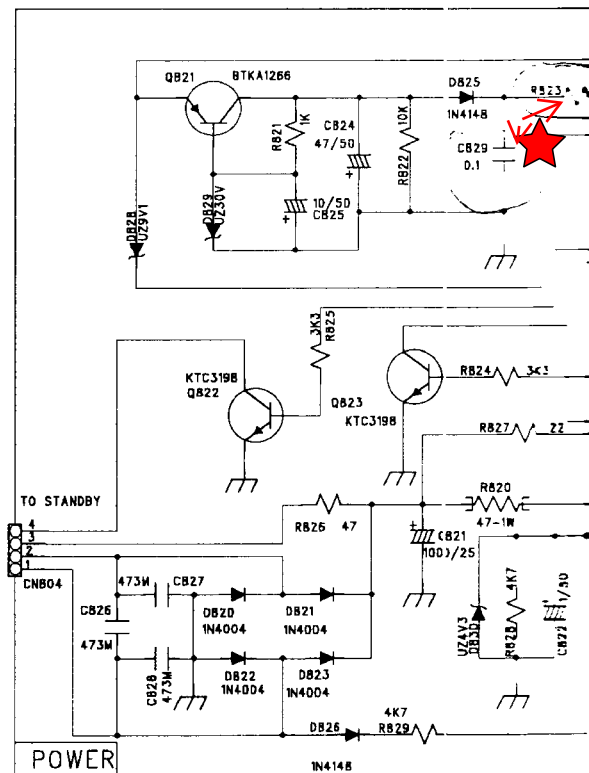
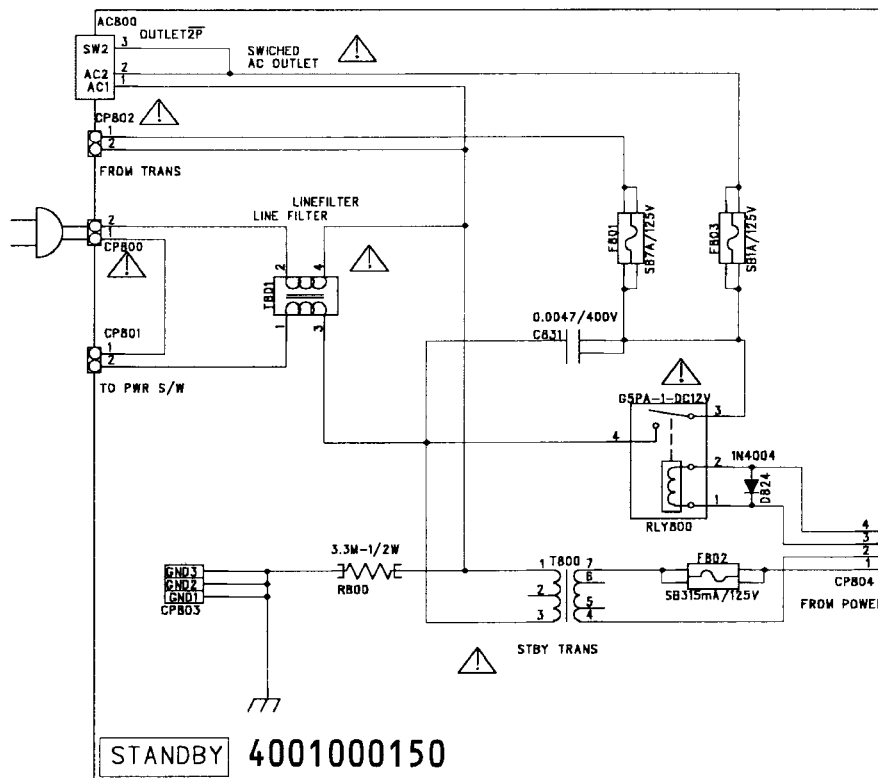
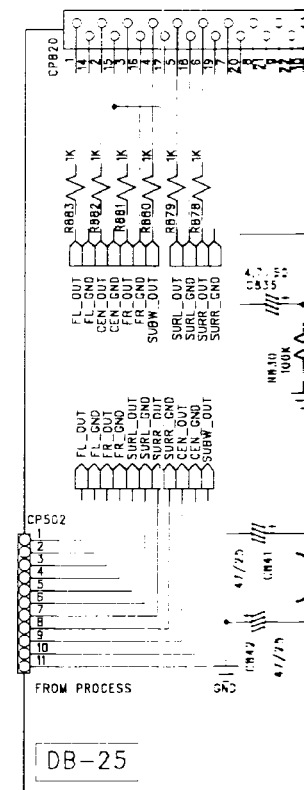
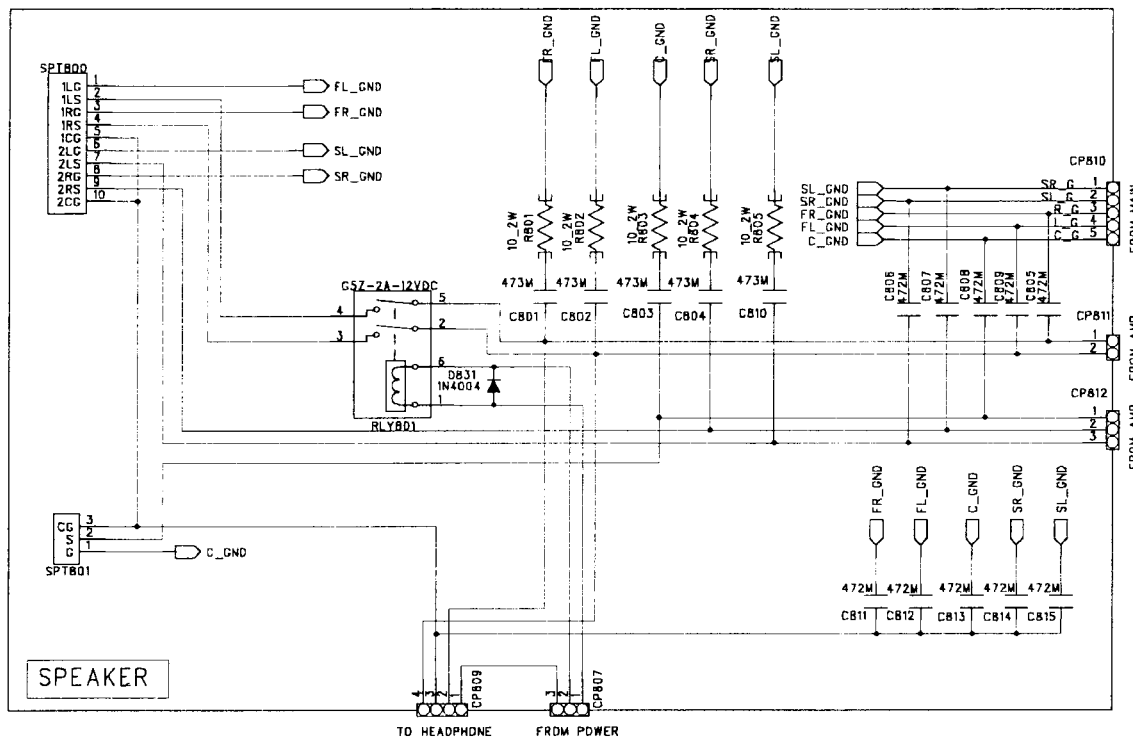
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4

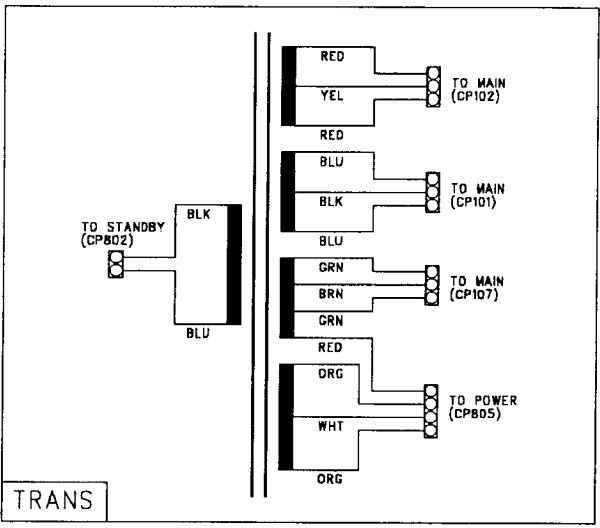
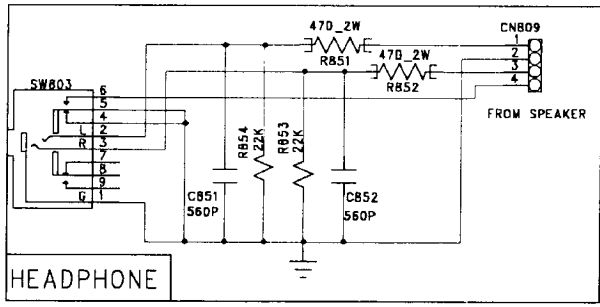
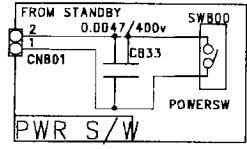
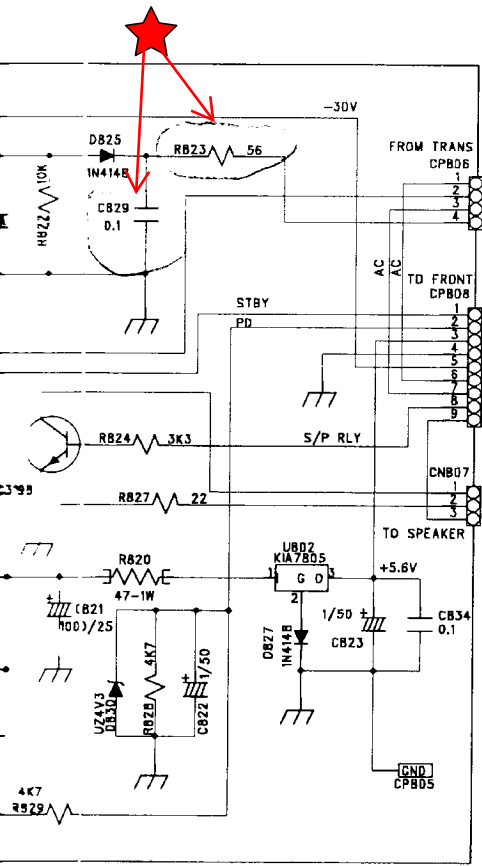
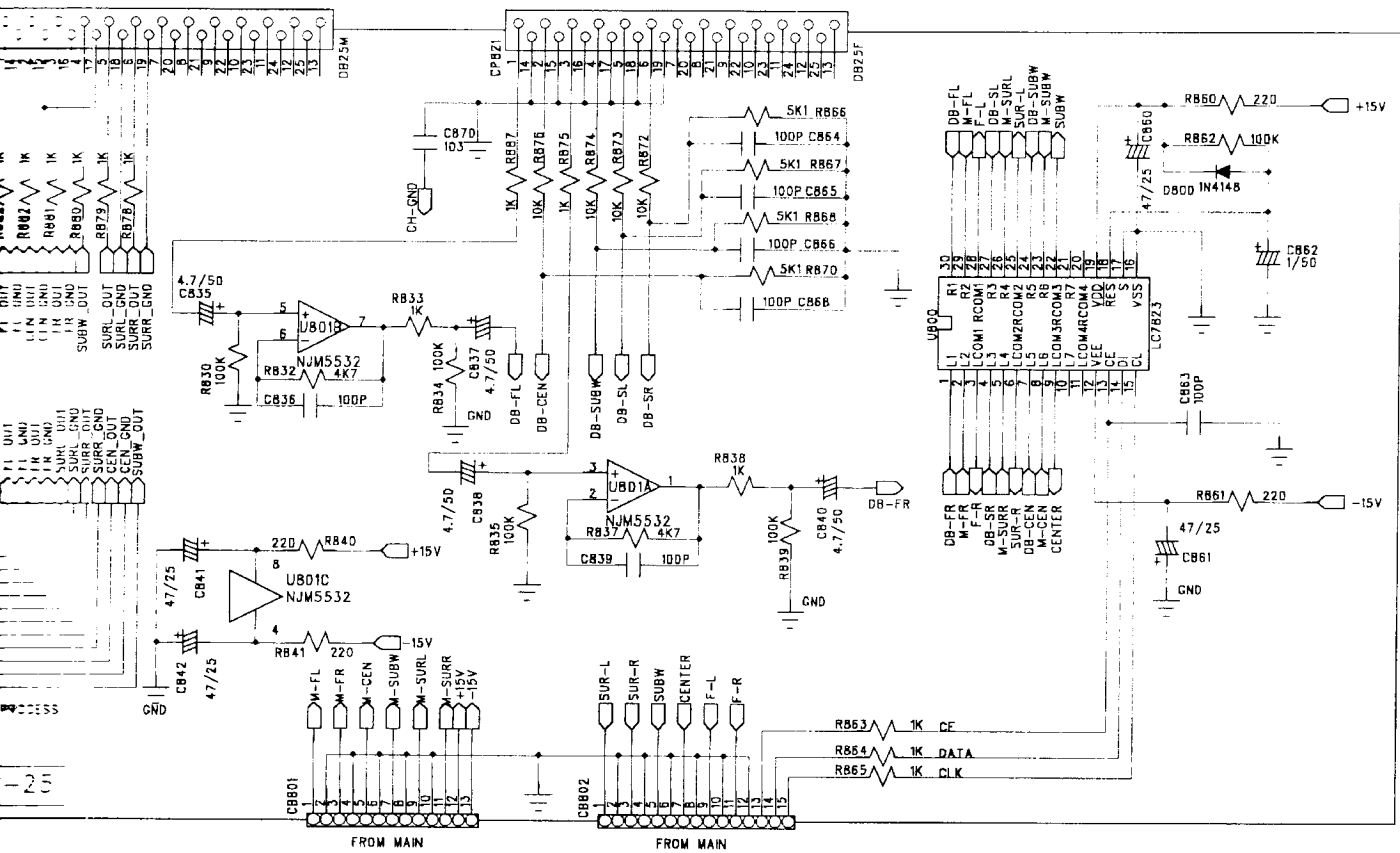
ROTEL

SCHEMATIC DIAG

|            |        |  |  |
|------------|--------|--|--|
| MODEL NAME | RSK965 |  |  |
| BOARD NAME | FRONT  |  |  |

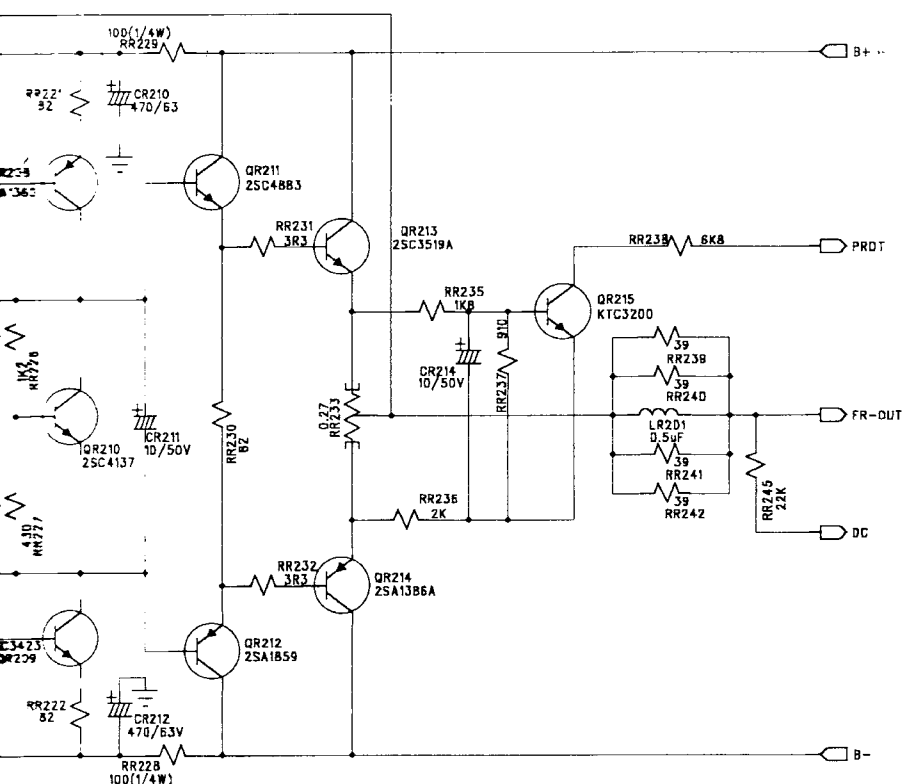
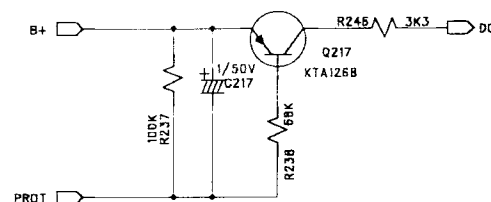
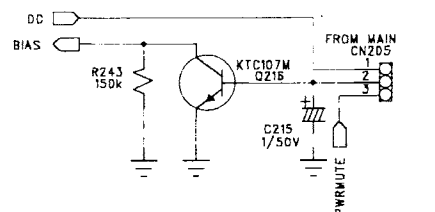
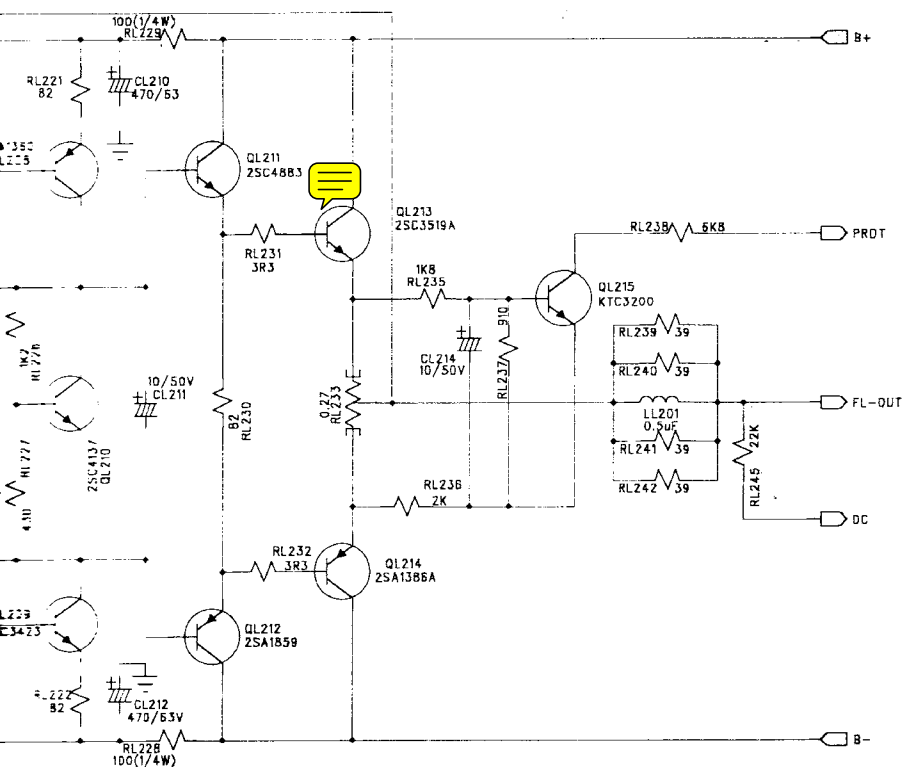


# DIAGRAM



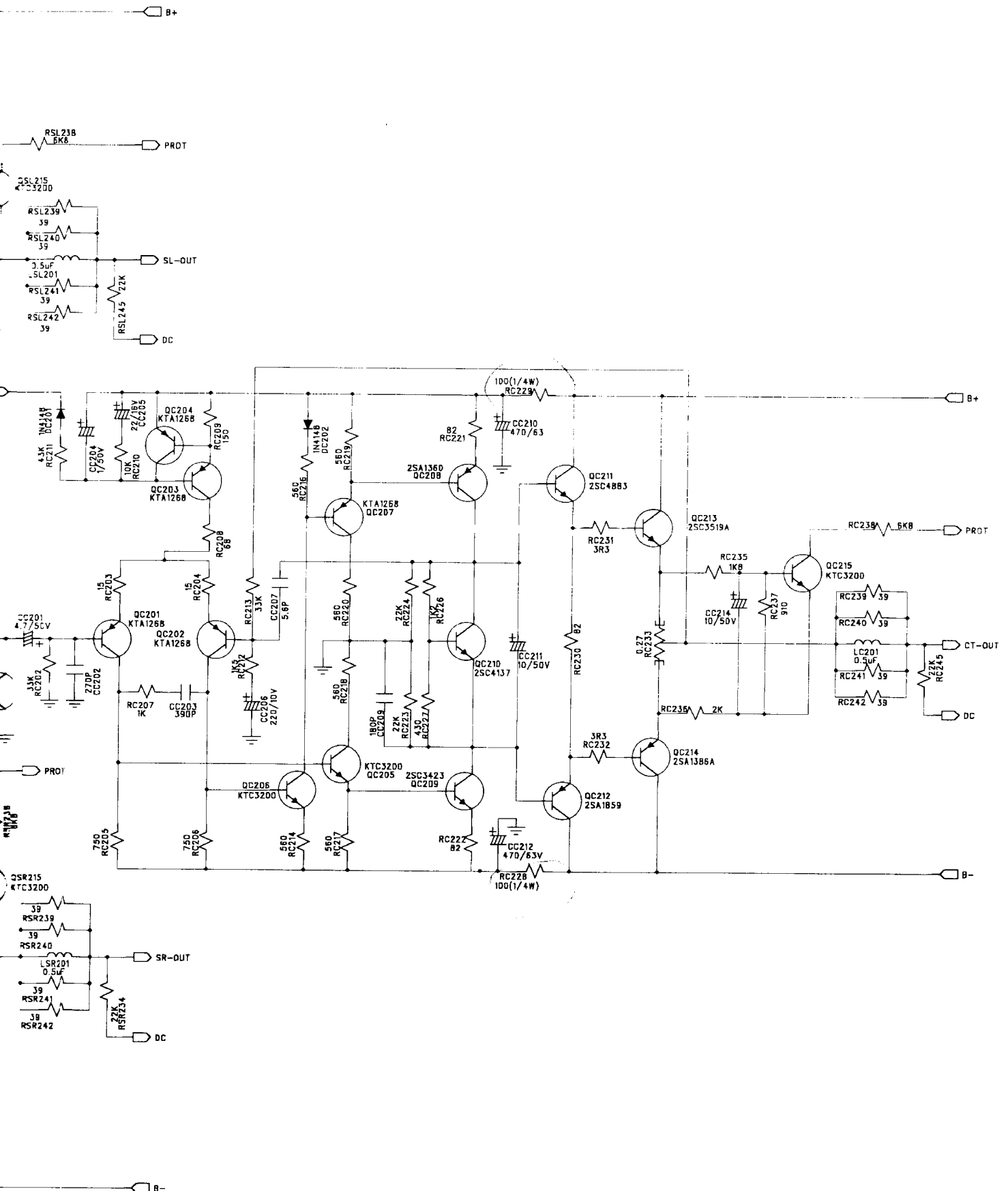


## IC DIAGRAM





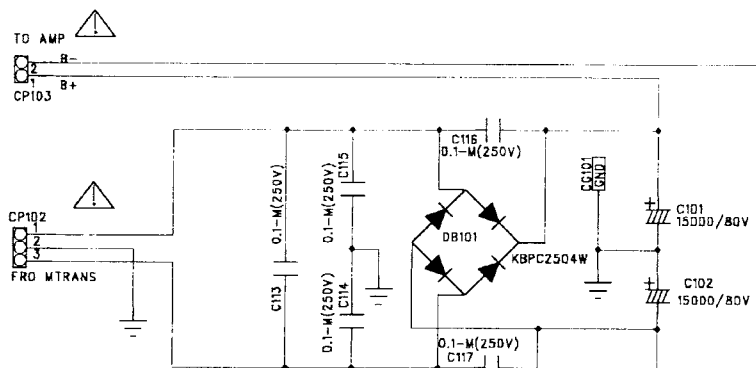
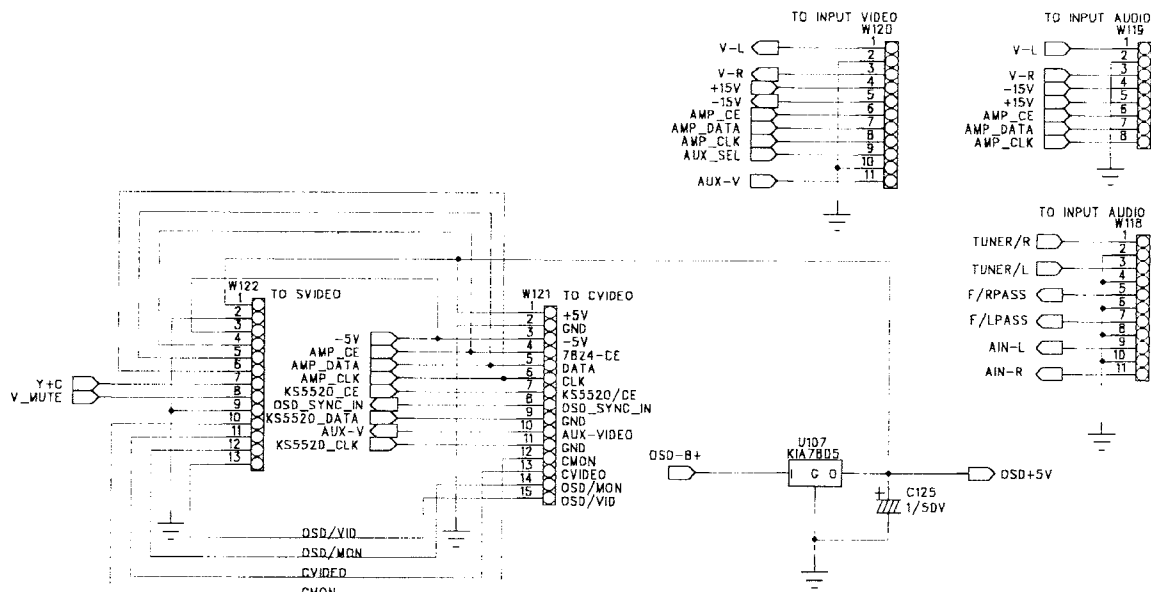
## C DIAGRAM



ROTEL

## SCHEMATIC DIA

|            |        |  |  |
|------------|--------|--|--|
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| BOARD NAME | MAIN   |  |  |





6

5

4

ROTEL

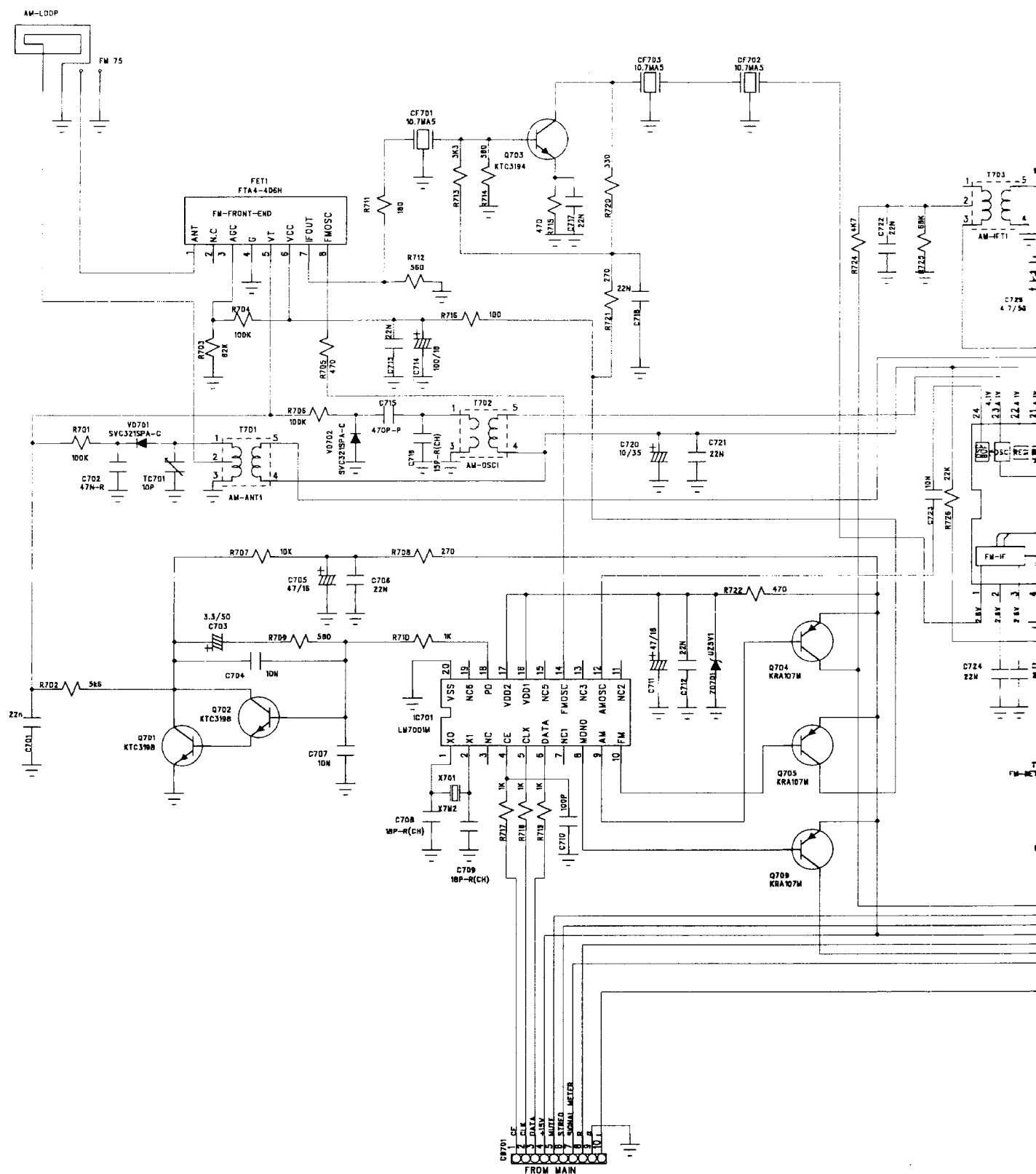
MODEL NAME

RSX965

BOARD NAME

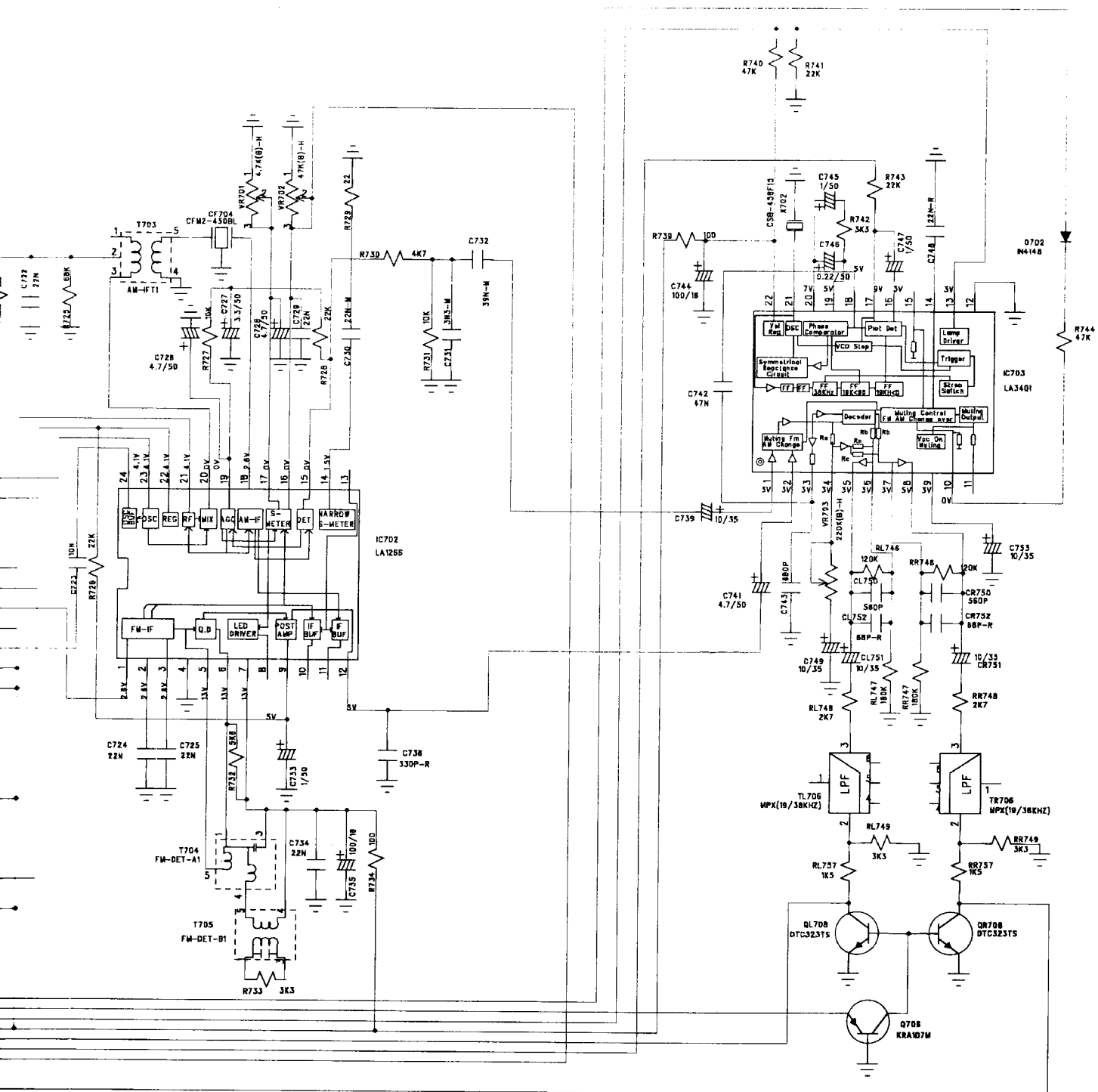
TUNER

## SCHEMATIC DIAG



TUNER 4002000300

# C DIAGRAM



6

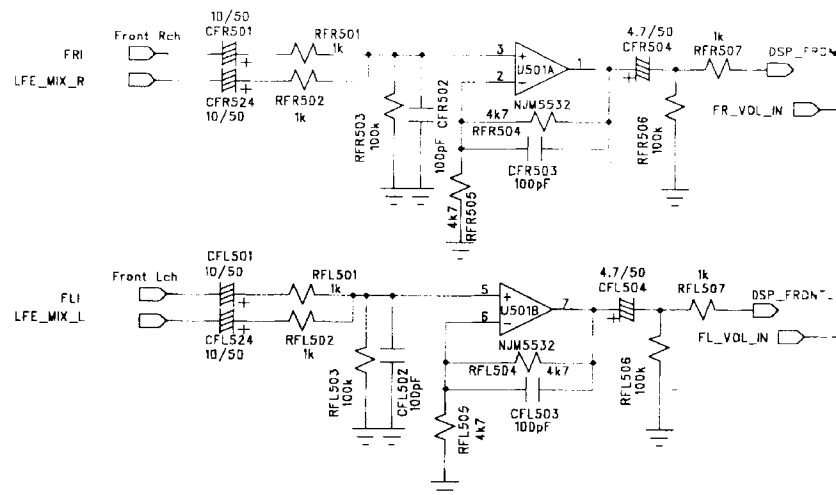
5

4

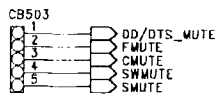
ROTEL

## SCHEMATIC DIAGRAM

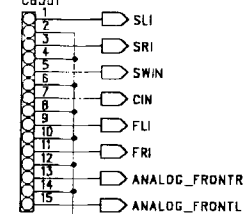
|            |         |  |  |
|------------|---------|--|--|
| MODEL NAME | RSX965  |  |  |
| BOARD NAME | PROCESS |  |  |



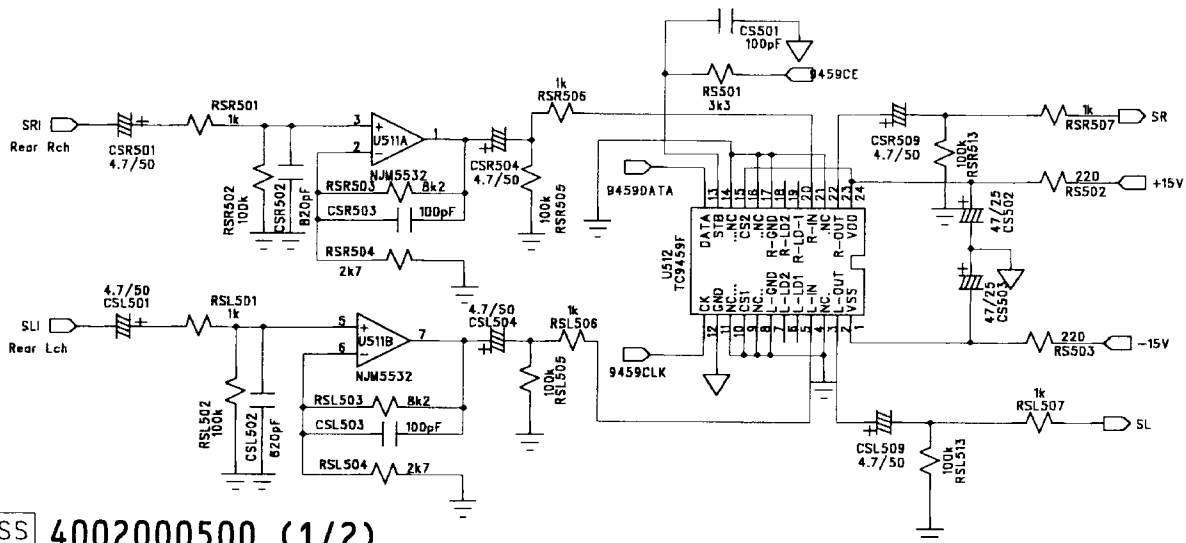
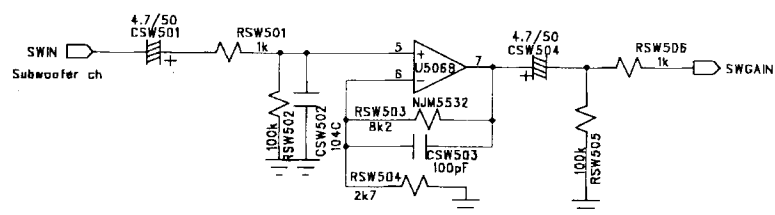
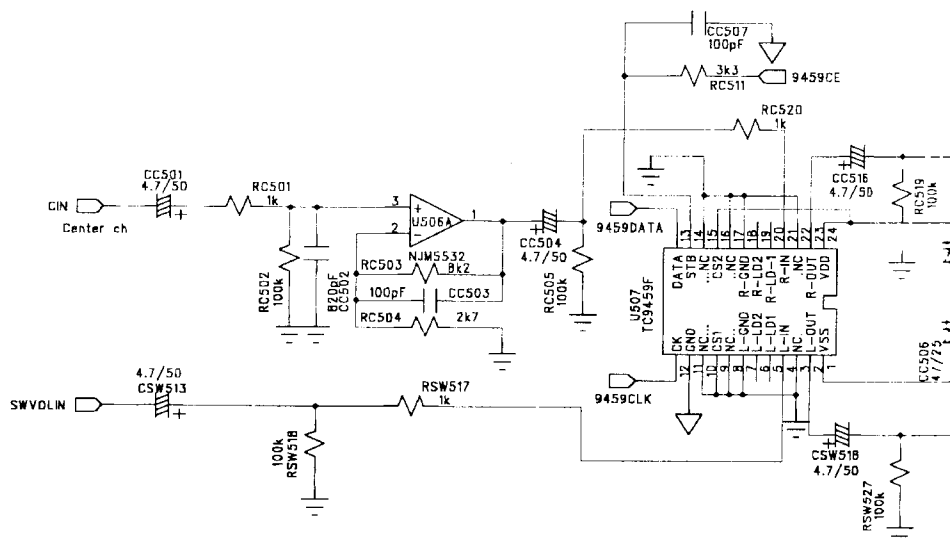
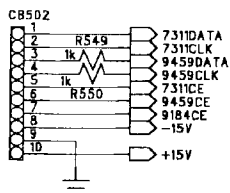
FROM MAIN



FROM MAIN



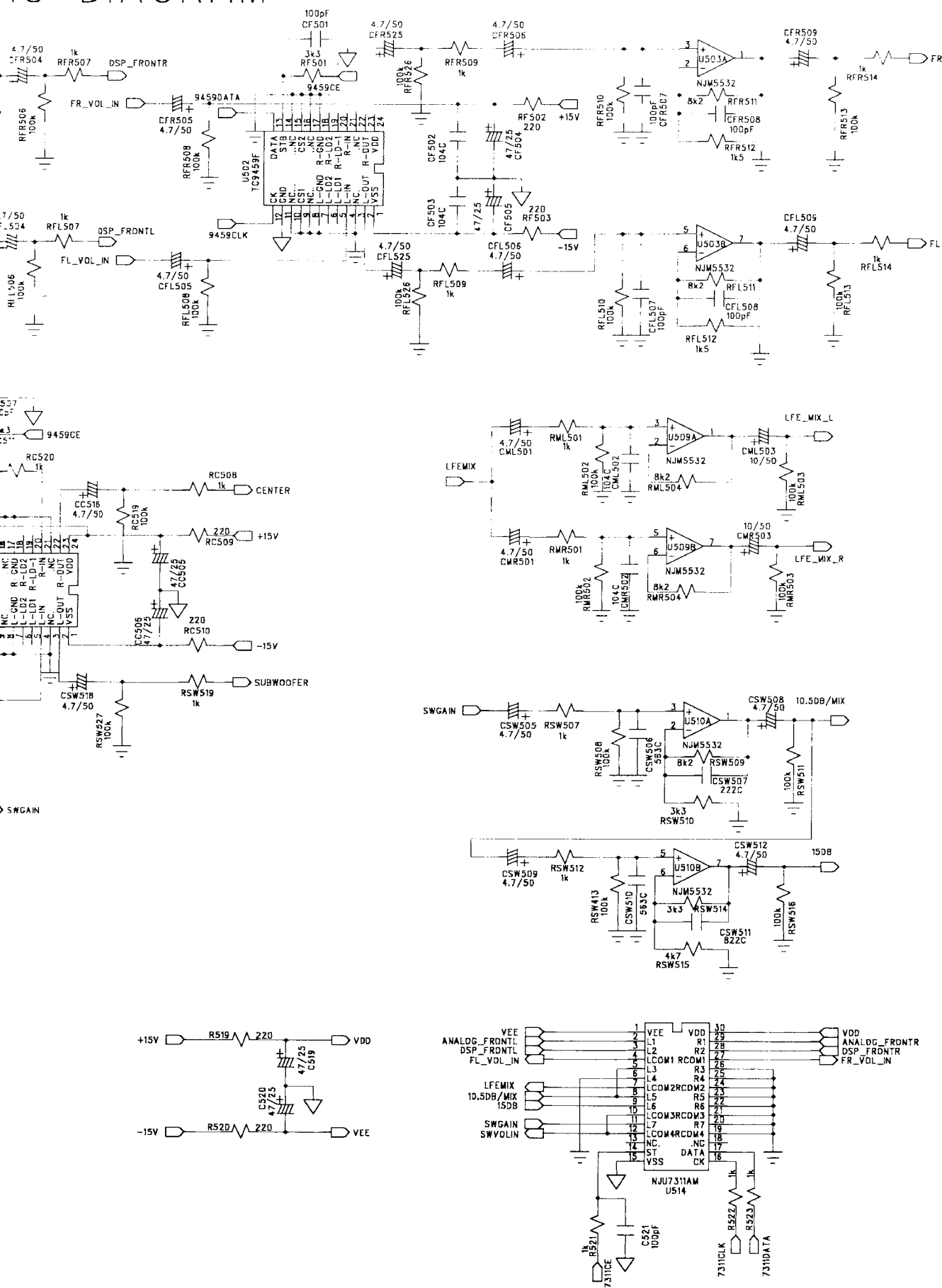
FROM MAIN



REV.A

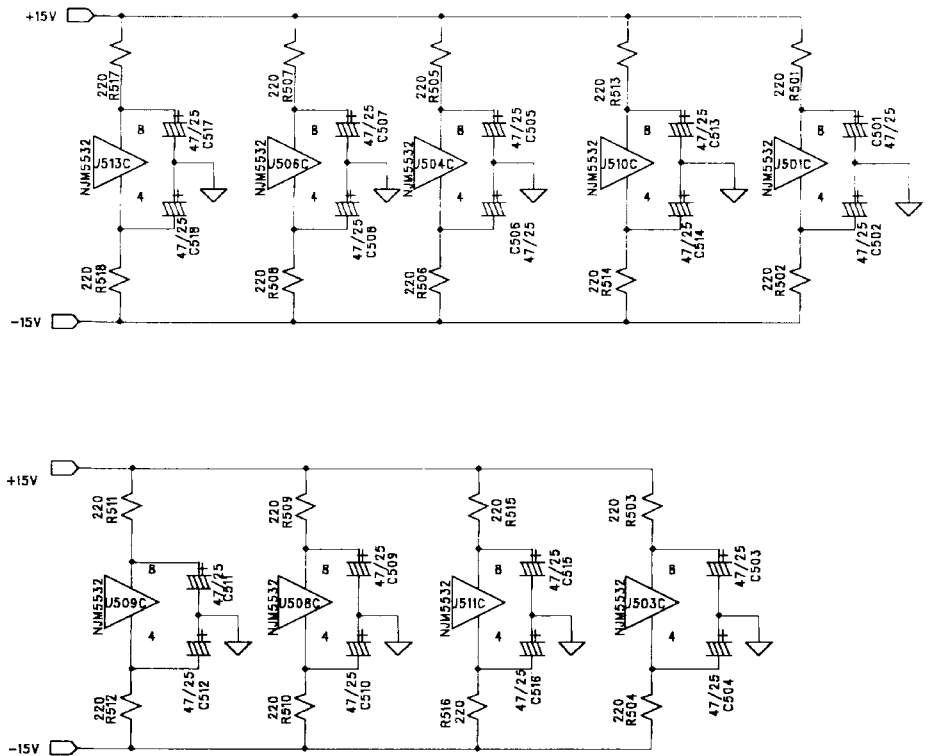
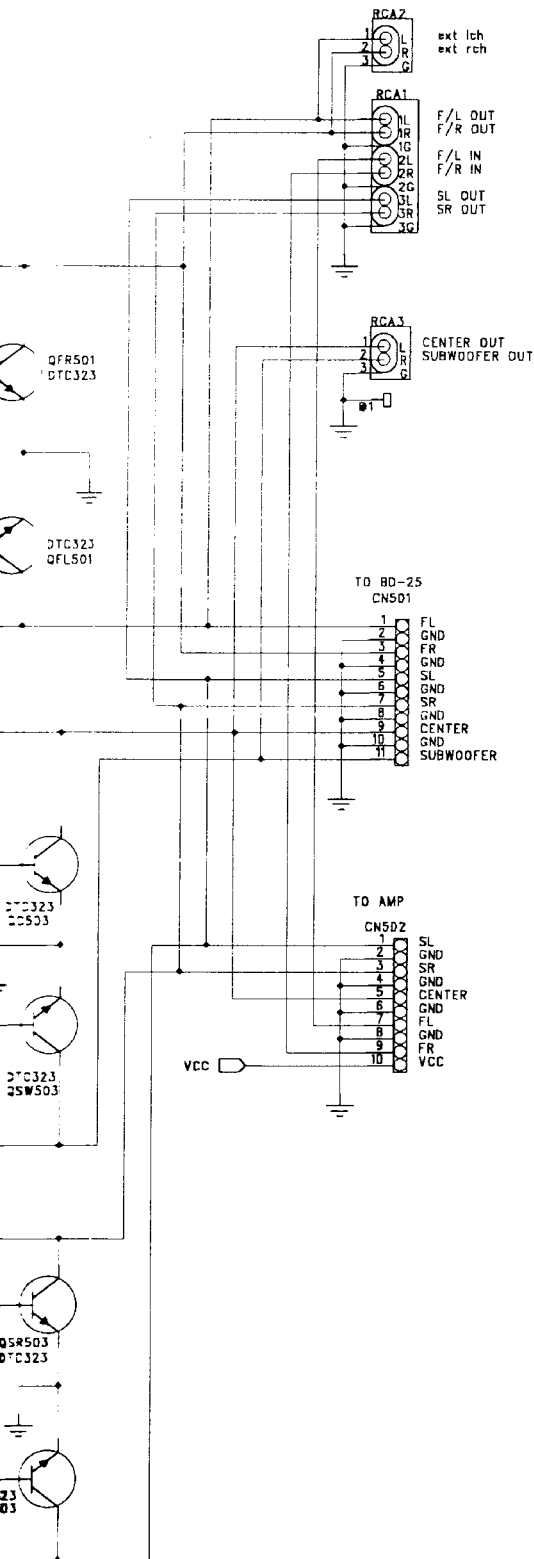
PROCESS 4002000500 (1/2)

## IC DIAGRAM





## IC DIAGRAM



6

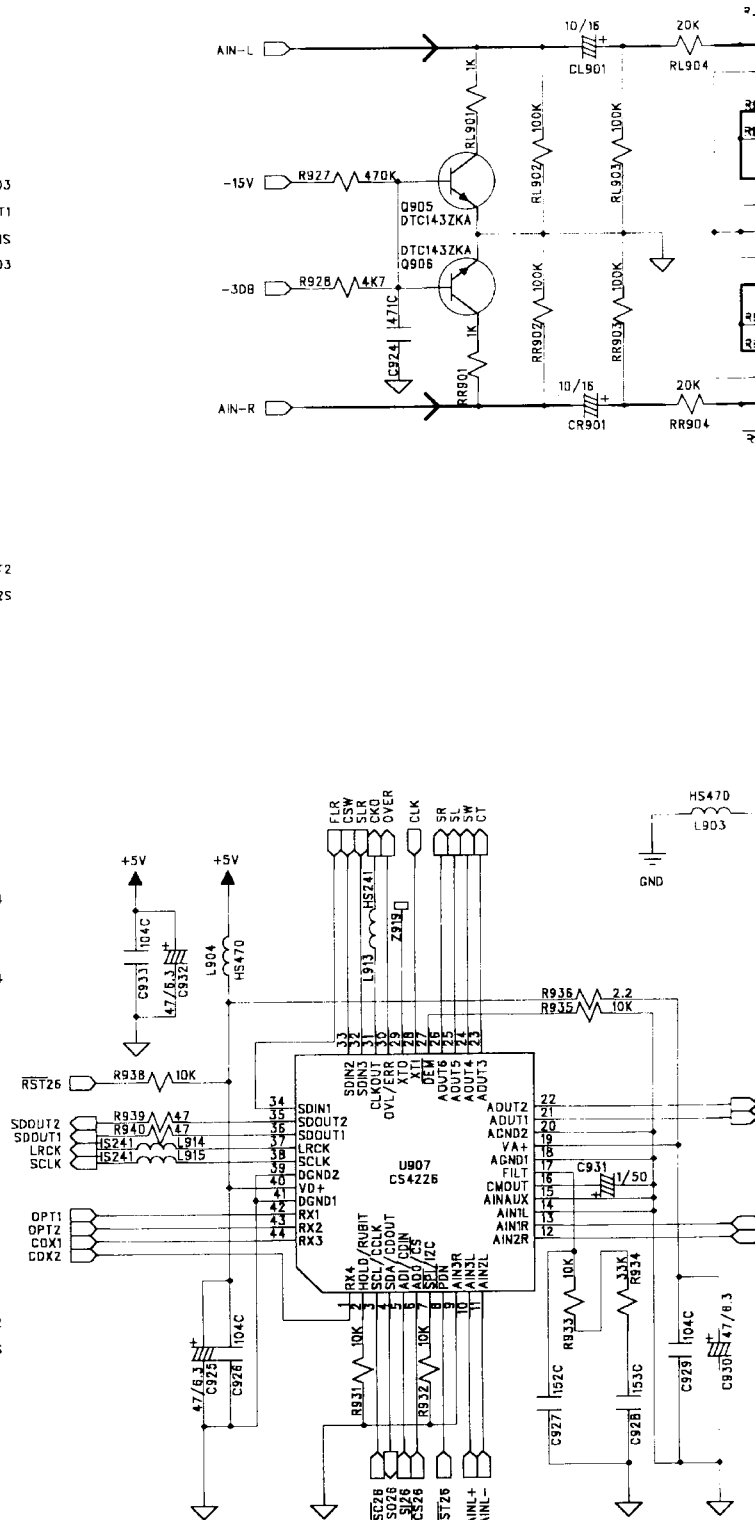
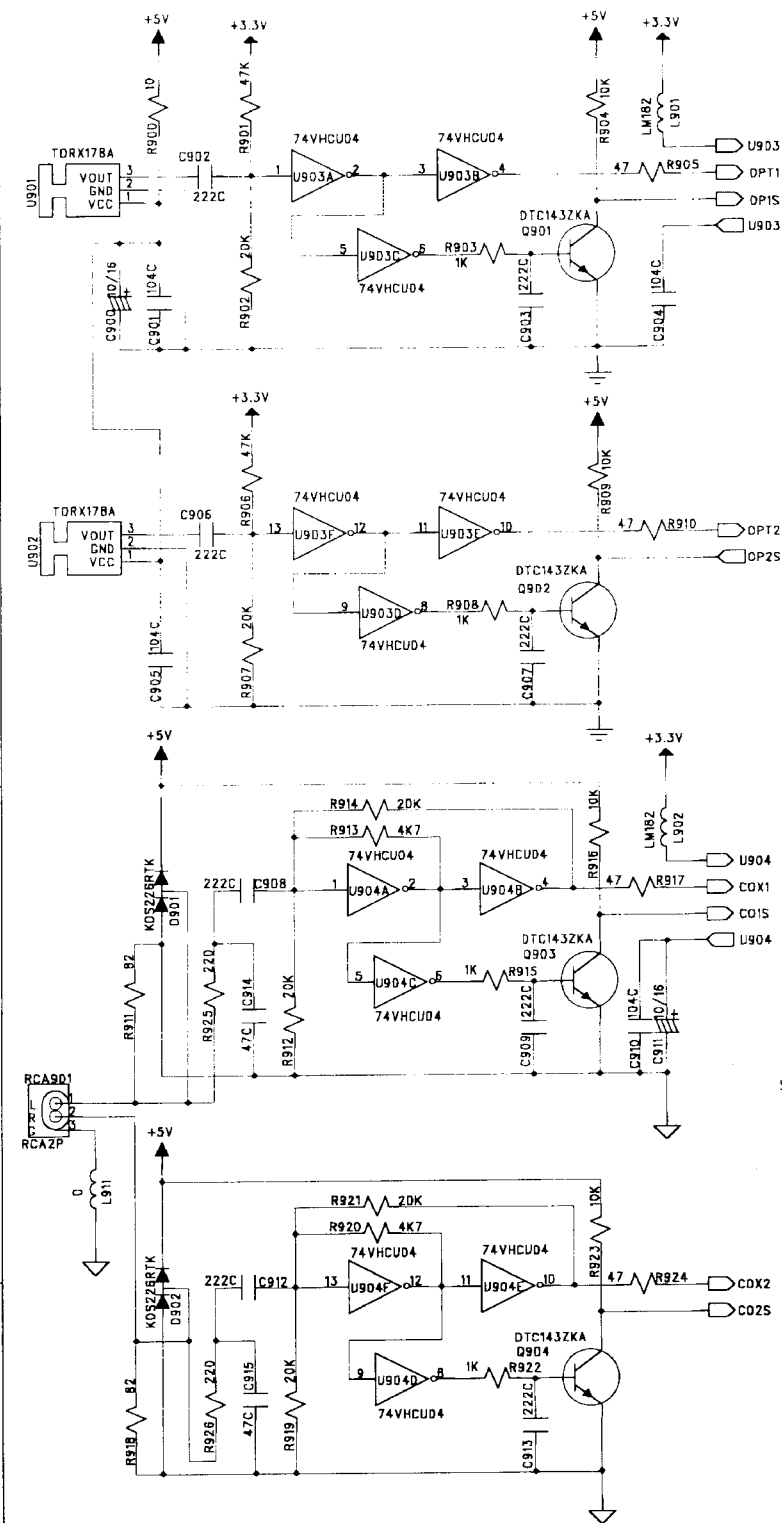
5

4

ROTEL

|            |        |  |
|------------|--------|--|
| MODEL NAME | RSY965 |  |
| BOARD NAME | DS/DTS |  |

SCHEMATIC DIAG



UNUSED

|       |      |       |
|-------|------|-------|
| R927  | Q905 | CT912 |
| R928  | Q906 |       |
| C924  | L903 |       |
| RL901 |      |       |
| RR901 |      |       |

DOLBY DIGITAL/DTS

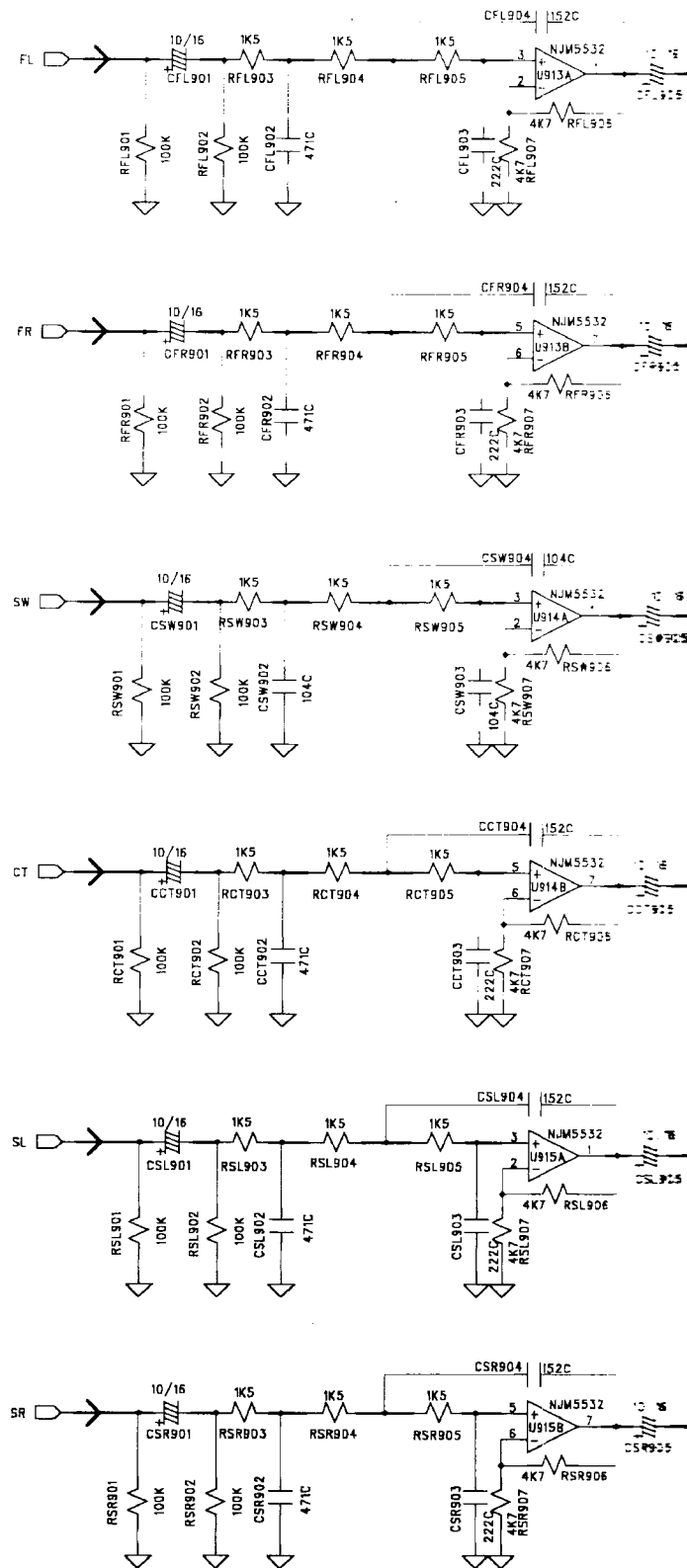
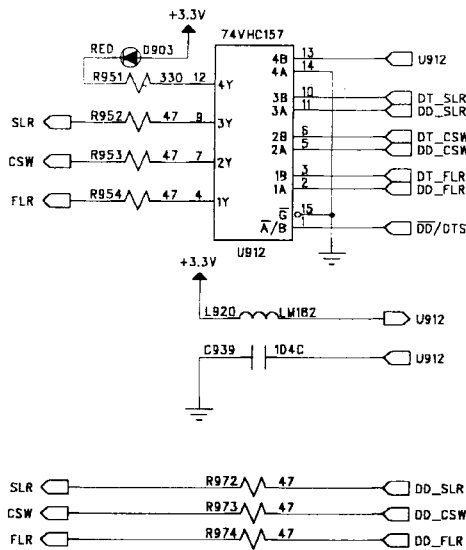
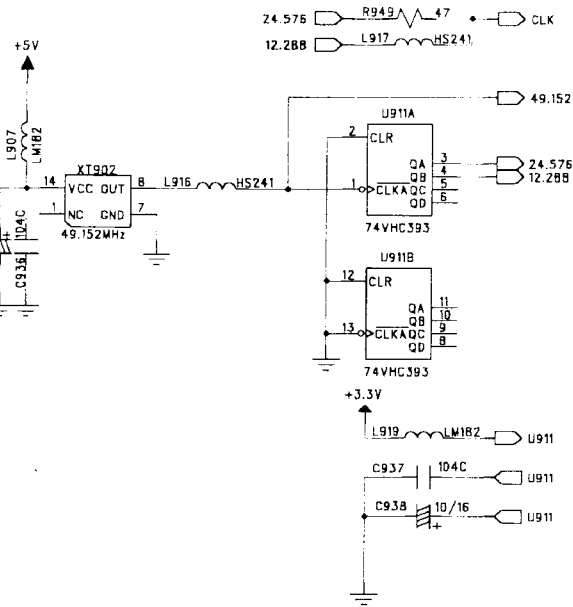
4002000700 (1/3)



## ROTEL

## SCHEMATIC DIAG

|            |        |  |  |
|------------|--------|--|--|
| MODEL NAME | RS4965 |  |  |
| BOARD NAME | DD/DTS |  |  |



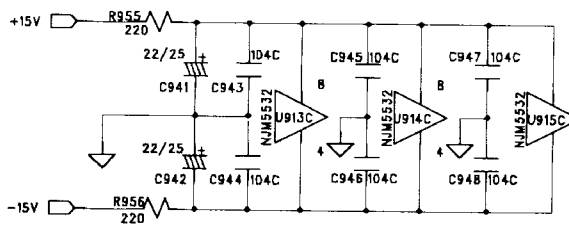
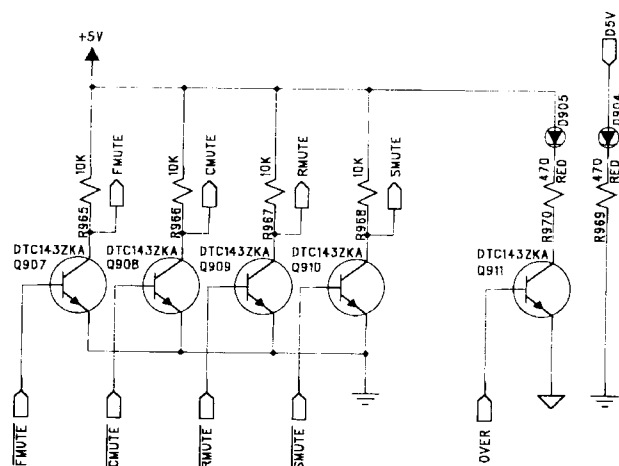
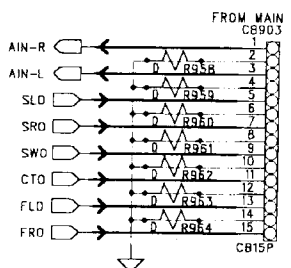
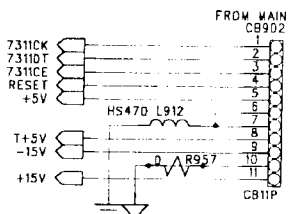
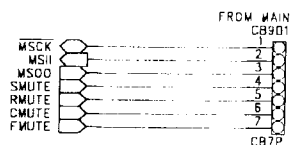
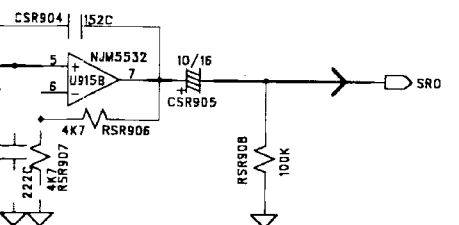
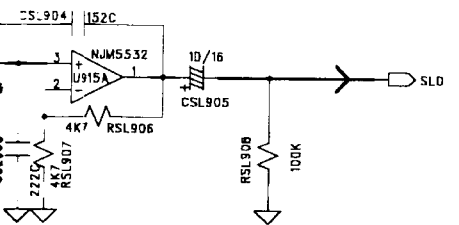
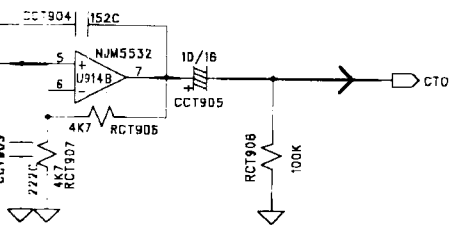
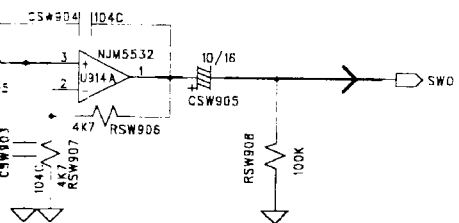
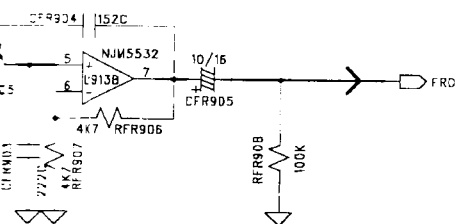
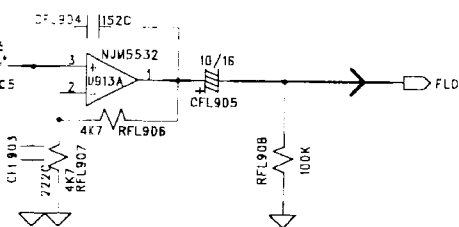
## UNUSED

|      |      |        |      |
|------|------|--------|------|
| R949 | R957 | RFL901 | R951 |
| R972 | R958 | RFR901 | D903 |
| R973 | R959 | RSW901 | Q811 |
| R974 | R950 | RCT901 | R970 |
| R965 | R961 | RSL901 | D905 |
| R966 | R962 | RSR901 | R969 |
| R967 | R963 |        | D904 |
| R968 | R964 |        |      |

DOLBY DIGITAL/DTS

4002000700 (2/3)

## IC DIAGRAM









The schematic diagram illustrates the internal circuitry of a video cassette recorder (VCR). It features four main input sections on the left: VCR4, VCR3, VCR2, and VCR1 IN, each with its own set of input pins and associated components. The central part of the diagram is dominated by the LC7821 microprocessor, which is connected to a clock and data bus. A 7821CE voltage regulator is also present, providing a stable power supply. The output stage on the right includes a 7821CE and a 7821CE, which are connected to the VCR4 SEL input. The diagram is densely packed with various electronic components, including resistors (R), capacitors (C), diodes (D), and integrated circuits (ICs), all meticulously labeled with their respective values and part numbers.

4002000410

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4

ROTEL

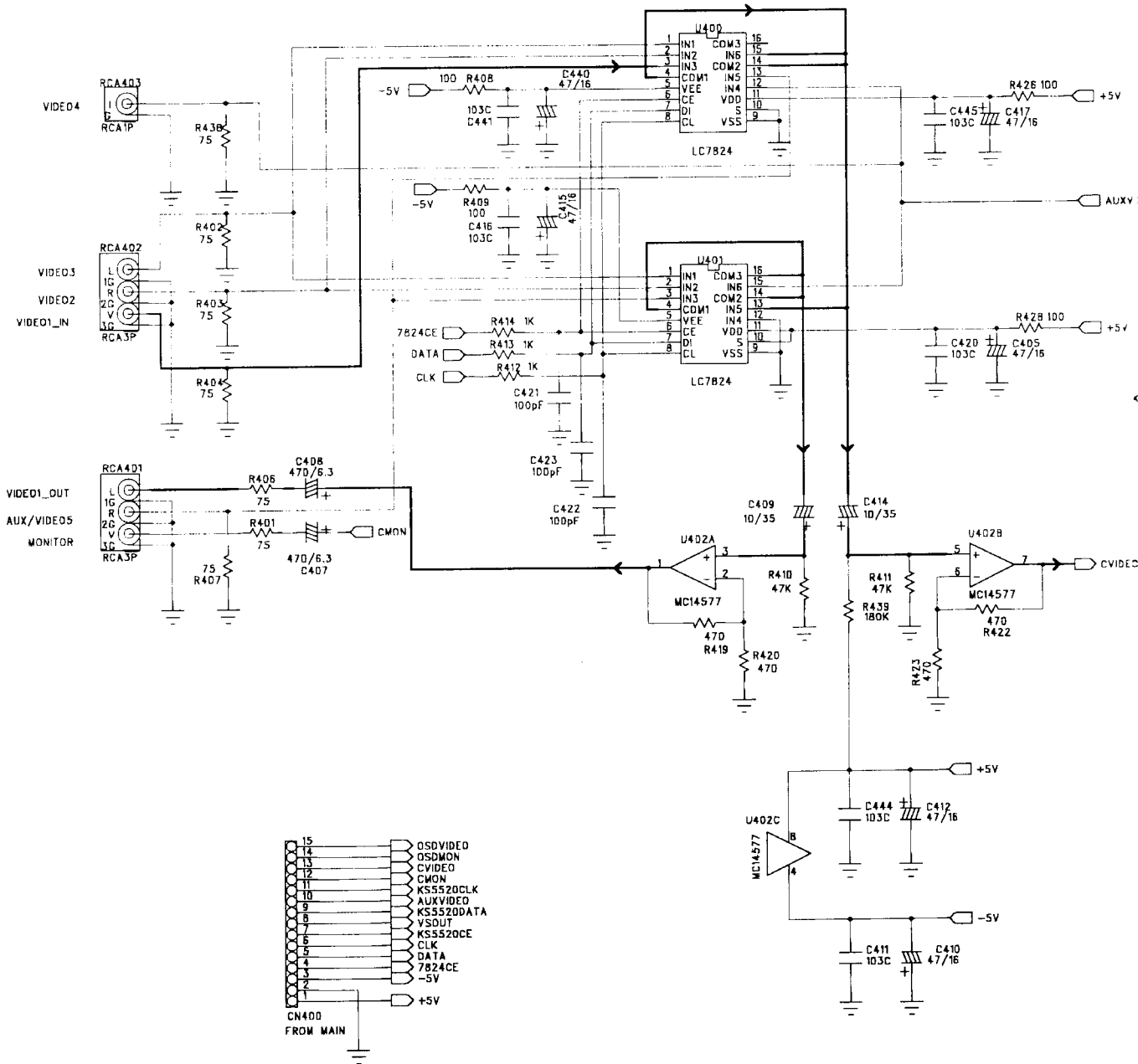
MODEL NAME

RSX955

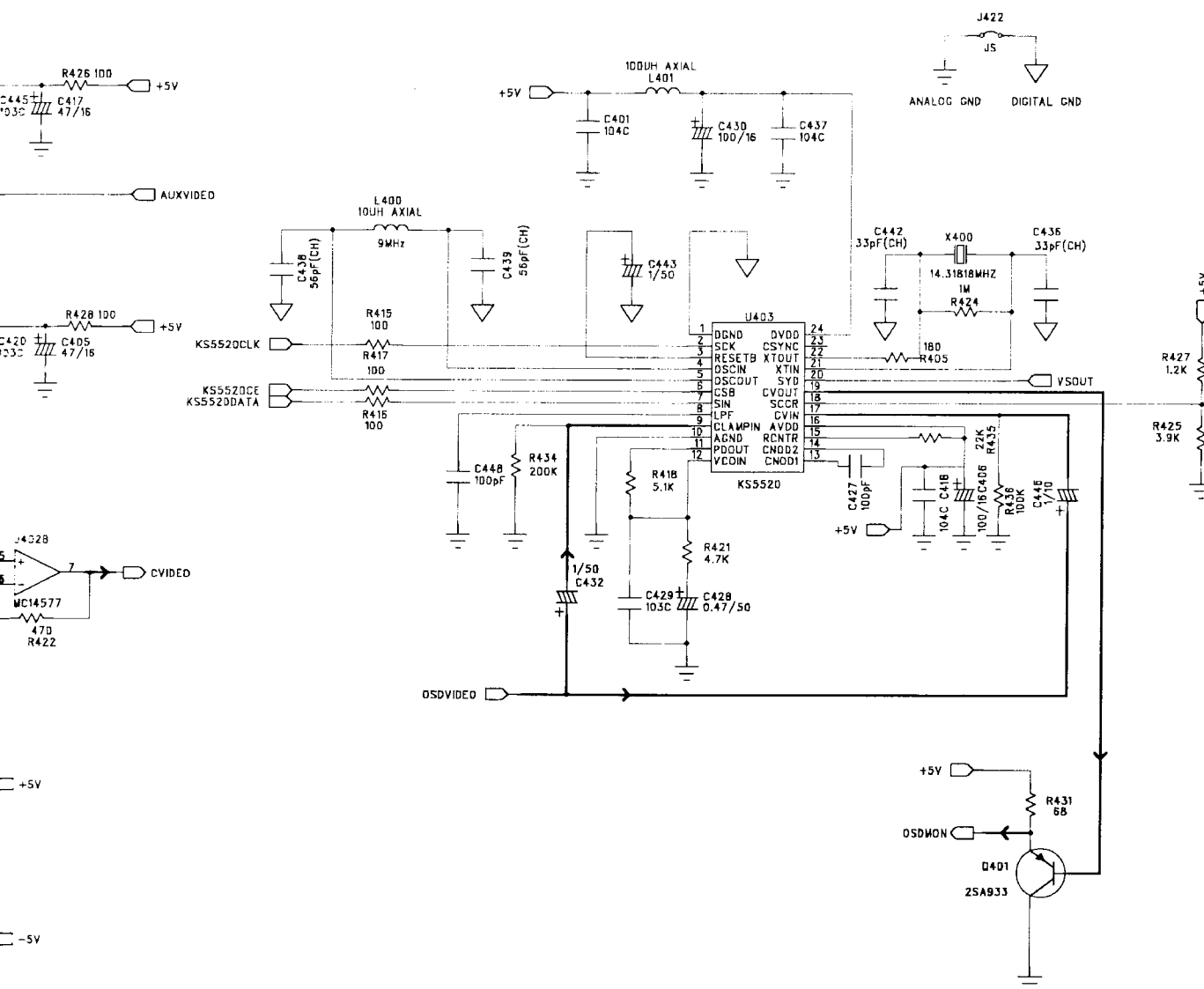
BOARD NAME

CVIDEO

SCHEMATIC DIAGRAM

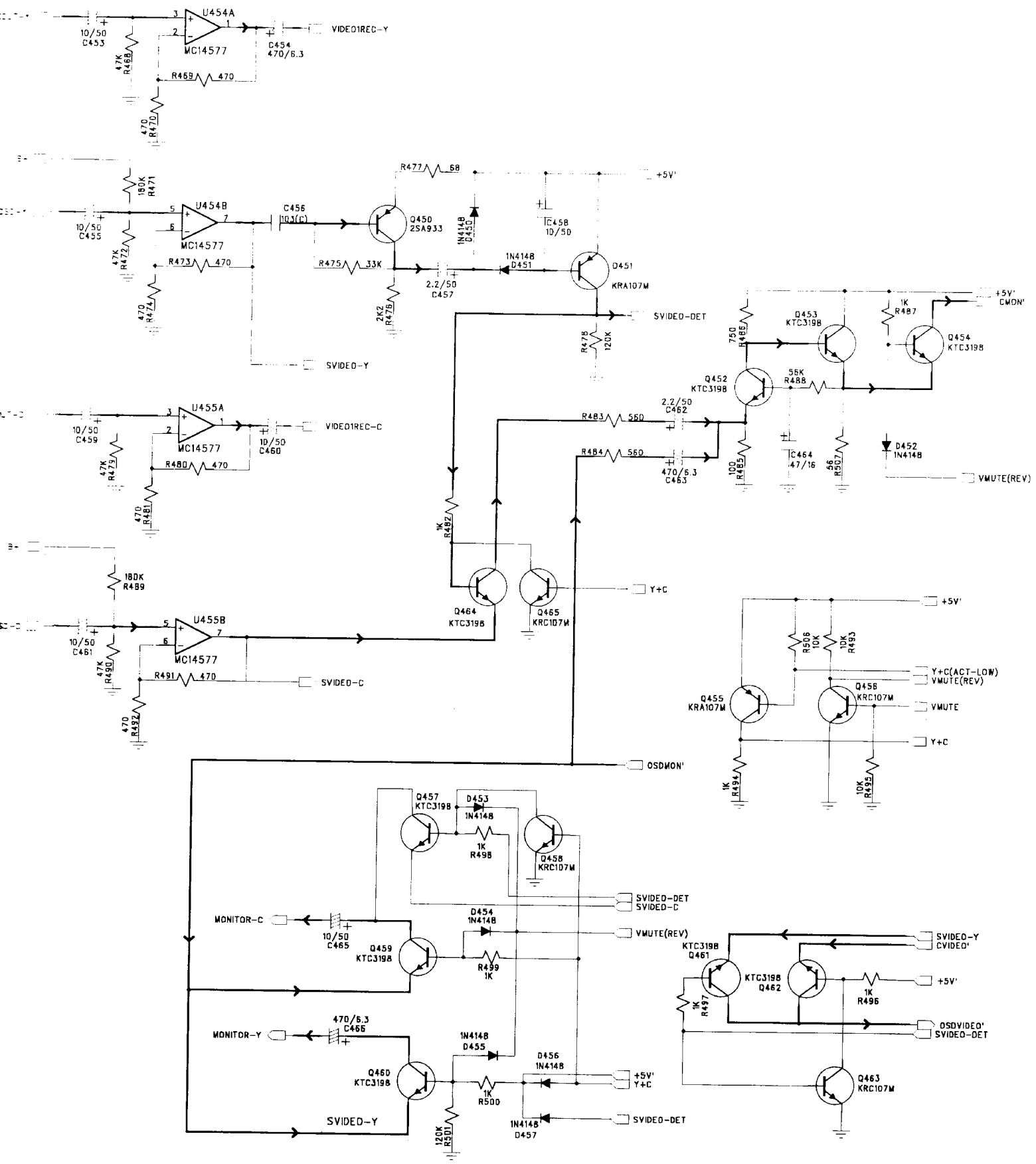


## IC DIAGRAM





# C DIAGRAM



## Parts List

| SYMBOL             | PART NO.     | DISCRIPTION              |
|--------------------|--------------|--------------------------|
| MAIN PCB ASSEMBLY  |              |                          |
|                    | 4002000100   | PCB MAIN 330*247         |
| C101-102           | 3419515382   | CAP. E. AM 15000uF/80    |
| C103-104           | 3409333262   | CAP. E. SG 3300uF/35     |
| C105               | 3409347232   | CAP. E. SG 10000uF/16    |
| C106               | 3409322232   | CAP. E. SG 2200uF/16     |
| C107               | 3479347121   | CAP. E. SG 470uF/10      |
| C108-112           | 3479310971   | CAP. E. SG 1uF/50        |
| C113-117           | 3679104257   | CAP. MYLAR 0.1uF/250     |
| C118-123           | 3679473120   | CAP. MYLAR 0.047uF/100   |
| C124               | 3409322232   | CAP. E. SG 2200uF/16     |
| C125               | 3479310971   | CAP. E. SG 1uF/50        |
| C126-127           | 3679473120   | CAP. MYLAR 0.047uF/100   |
| CN810              | 436505252166 | CNT Assy                 |
| CP1-2              | 4235007410   | PLATE GND                |
| CP101              | 4428505710   | CNT PLUG MO 5267-03      |
| CP102              | 4428536103   | CNT JE202B-1T-2(5-2)     |
| CP103              | 4428536102   | CNT JE202B-1T-2(3-2)     |
| CP104-105          | 4428508210   | CNT PLUG MO 5267-02      |
| CP106-107          | 4428505710   | CNT PLUG MO 5267-03      |
| D102-109           | 2258128002   | DIODE RECTIFIER 1N4004   |
| D110,111           | 2058322101   | DIODE 1N4148             |
| D112               | 2258599919   | DIODE ZENER UZ9V1        |
| D113-114           | 2258128002   | DIODE RECTIFIER 1N4004   |
| DB101              | 2058100139   | DIODE BRIDGE KBPC2504W   |
| F101-102           | 5508102221   | FUSE SB1.5A/125V         |
| F101-102           | 5508302235   | FUSE T1.5AL/250V         |
| F103-104           | 5508102421   | FUSE SB 2A/125V          |
| F103-104           | 5508302435   | FUSE T2AL/250V           |
| FPC101             | 4426011029   | CNT FPC PLUG ST 8370-291 |
| FPC101             | 4426011031   | CNT FPC PLUG ST 6210-031 |
| JACK1              | 4438300110   | JACK MINI                |
| Q101-102           | 2208606105   | TR NPN KTC3198BL         |
| Q104               | 2208606105   | TR NPN KTC3198BL         |
| R101               | 3029472970   | RES. MF 4.7K             |
| R102               | 3029682970   | RES. MF 6.8K             |
| R103               | 3029102970   | RES. MF 1K               |
| R104               | 3029152970   | RES. MF 1.5K             |
| R105               | 3029472970   | RES. MF 4.7K             |
| R106               | 3029221970   | RES. MF 220 1/5W J       |
| U101               | 2408000136   | OPTO. COUPLER LTV-817    |
| U102               | 2168602109   | IC REG. KIA7815          |
| U103               | 2168602114   | IC REG. KIA7915          |
| U104               | 2168602112   | IC REG. KIA7905          |
| U105-107           | 2168602105   | IC REG. KIA7805          |
| W108               | 4428853110   | CNT WAFER EL 8283-1012   |
| W108               | 4428853115   | CNT WAFER EL 8283-1512   |
| W112               | 4428853113   | CNT WAFER EL 8283-1312   |
| W113               | 4428853115   | CNT WAFER EL 8283-1512   |
| W118               | 4428853111   | CNT WAFER EL 8283-1112   |
| W119               | 4428853108   | CNT WAFER EL 8283-0812   |
| W120               | 4428853109   | CNT WAFER EL 8283-0912   |
| W121               | 4428853115   | CNT WAFER EL 8283-1512   |
| W122               | 4428853113   | CNT WAFER EL 8283-1312   |
| W501               | 4428853115   | CNT WAFER EL 8283-1512   |
| W503               | 4428853105   | CNT WAFER EL8283-0512    |
| W801               | 4428853107   | CNT WAFER EL 8283-0712   |
| W802               | 4428853111   | CNT WAFER EL 8283-1112   |
| W803               | 4428853115   | CNT WAFER EL 8283-1512   |
| FRONT PCB ASSEMBLY |              |                          |
|                    | 4001000100   | PCB FRONT B'd 440*247    |

| SYMBOL                 | PART NO.     | DISCRIPTION             |
|------------------------|--------------|-------------------------|
| U600                   | 2138322100   | IC CPU MAIN CXP828P60Q  |
| C600                   | 3439210415   | CAP BACK-UP 0.1F/5.5V   |
| C601-C613              | 3519101935   | CAP C AXIAL 100pF/50V   |
| C615                   | 3519101935   | CAP C AXIAL 100pF/50V   |
| C617-622               | 3519821935   | CAP C AXIAL 820pF/50V   |
| C623-624               | 3519101935   | CAP C AXIAL 100pF/50V   |
| C625-626               | 3519473935   | CAP C AXIAL 0.047uF/50V |
| C630                   | 3479310071   | CAP E SG 10uF/50V       |
| C631                   | 3479347971   | CAP E SG 4.7uF/50V      |
| C632                   | 3479333971   | CAP E SG 3.3uF/50V      |
| C633                   | 3509103530   | CAP C RADIAL 0.01uF/50V |
| C634                   | 3479322871   | CAP E SG 0.22uF/50V     |
| C871                   | 3509103530   | CAP C RADIAL 0.01uF/50V |
| CP602                  | 4428011129   | FPC PLUG AN 00-8370-297 |
| CP602                  | 4428011131   | FPC PLUG AN 00-6216-031 |
| CN601                  | 436209453524 | CTG 0945 S03, T03       |
| D600-612               | 2058322101   | DIODE 1N4148            |
| D614-615               | 2058322101   | DIODE 1N4148            |
| D616                   | 2258128002   | DIODE 1N4004            |
| D617                   | 2258128002   | DIODE 1N4004            |
| D618                   | 2258128002   | DIODE 1N4004            |
| D619                   | 2058322101   | DIODE 1N4148            |
| D620                   | 2058322101   | DIODE 1N4148            |
| D621                   | 2058322101   | DIODE 1N4148            |
| D622                   | 2058322101   | DIODE 1N4148            |
| D627                   | 2371140711   | LED SRV56URCF14         |
| FL600                  | 2328000302   | FL DISPLAY SVR-08LM02   |
| Q602                   | 2208606105   | TR NPN KTC3198          |
| Q603                   | 2208606105   | TR NPN KTC3198          |
| Q604,Q605              | 2238006100   | TR NPN KRC107M          |
| R600                   | 3029103970   | RES MF 10K 1/5W J       |
| R601-613               | 3029102970   | RES MF 1K 1/5W J        |
| R615                   | 3029102970   | RES MF 1K 1/5W J        |
| R616                   | 3029330970   | RES MF 330 1/5W J       |
| R617                   | 3029472970   | RES MF 4K7 1/5W J       |
| R618                   | 3029271970   | RES MF 270 1/5W J       |
| R619                   | 3029472970   | RES MF 4K7 1/5W J       |
| R620                   | 3029103970   | RES MF 10K 1/5W J       |
| R621                   | 3029102970   | RES MF 1K 1/5W J        |
| R622                   | 3029103970   | RES MF 10K 1/5W J       |
| R623                   | 3029103970   | RES MF 10K 1/5W J       |
| R624                   | 3029472970   | RES MF 4K7 1/5W J       |
| R625                   | 3029104970   | RES MF 100K 1/5W J      |
| R626-627               | 3029229970   | RES MF 2.2 1/5W J       |
| R628                   | 3029101970   | RES MF 100 1/5W J       |
| R629                   | 3029472970   | RES MF 4K7 1/5W J       |
| R630-633               | 3029473970   | RES MF 47K 1/5W J       |
| R634-642               | 3029103970   | RES MF 10K 1/5W J       |
| R643-645               | 3029124970   | RES MF 120K 1/5W J      |
| R646-656               | 3029472970   | RES MF 4K7 1/5W J       |
| R657                   | 3029102970   | RES MF 1K 1/5W J        |
| R658                   | 3029333970   | RES MF 33K 1/5W J       |
| R659-661               | 3029102970   | RES MF 1K 1/5W J        |
| R662-699               | 3029124970   | RES MF 120K 1/5W J      |
| R888                   | 3029101970   | RES MF 100 1/5W J       |
| RMC601                 | 2408000180   | REMOTE SENSOR           |
| S601-S650              | 4658000110   | TACT SWITCH             |
| SW801,802,804          | 3218000210   | ENCODER                 |
| SW805                  | 3218000110   | VOL ENCODER             |
| XT601                  | 3908101156   | RESONATOR 10MHz         |
| HEADPHONE PCB ASSEMBLY |              |                         |
|                        | 4001000120   | PCB HEADPHONE B'd       |
| C851-852               | 3519561935   | CAP C AXIAL 560pF/50V   |

# Parts List

| SYMBOL                | PART NO.     | DISCRIPTION                     |
|-----------------------|--------------|---------------------------------|
| CN810                 | 436204503524 | CTG 0450 S05 T05 DL#26 2.0      |
| R851-852              | 3029471570   | RES MF 470 2W                   |
| R853-854              | 3029223970   | RES MF 22K 1/5W J               |
| SW803                 | 4438000210   | PHONEJACK 9P GOLD               |
| DB-25 PCB ASSEMBLY    |              |                                 |
|                       | 4001000170   | PCB DB-25 B'd                   |
| C835                  | 3479347971   | CAP E SG 4.7uF/50V              |
| C836                  | 3519101935   | CAP C AXIAL 100pF/50V           |
| C837                  | 3479347971   | CAP E SG 4.7uF/50V              |
| C838                  | 3479347971   | CAP E SG 4.7uF/50V              |
| C839                  | 3519101935   | CAP C AXIAL 100pF/50V           |
| C840                  | 3479347971   | CAP E SG 4.7uF/50V              |
| C841-842              | 3479347061   | CAP E SG 47uF/25V               |
| C860-861              | 3479347061   | CAP E SG 47uF/25V               |
| C862                  | 3479310971   | CAP E SG 1uF/50V                |
| C863-6                | 3519101935   | CAP C AXIAL 100pF/50V           |
| C868                  | 3519101935   | CAP C AXIAL 100pF/50V           |
| C870                  | 3519103935   | CAP C AXIAL 0.01uF/50V          |
| CB801                 | 4428 863213  | CNT Housing 20-8283-1312-00-000 |
| CB802                 | 4428 863215  | CNT Housing 20-8283-1512-00-000 |
| CP502                 | 4428517010   | GIL-S-11P-S2T2-EF               |
| CP820                 | 4438600120   | CNT DB25M                       |
| CP821                 | 4438600110   | CNT DB25F                       |
| D800                  | 2058322101   | DIODE 1N4148                    |
| R830                  | 3029104970   | RES MF 100K 1/5W J              |
| R832                  | 3029472970   | RES MF 4K7 1/5W J               |
| R833                  |              | JUMPER                          |
| R834-835              | 3029104970   | RES MF 100K 1/5W J              |
| R837                  | 3029472970   | RES MF 4K7 1/5W J               |
| R838                  |              | JUMPER                          |
| R839                  | 3029104970   | RES MF 100K 1/5W J              |
| R840-841              | 3029221970   | RES MF 220 1/5W J               |
| R860-861              | 3029221970   | RES MF 220 1/5W J               |
| R862                  | 3029104970   | RES MF 100K 1/5W J              |
| R863-865              | 3029102970   | RES MF 1K 1/5W J                |
| R866-868              | 3029472970   | RES MF 5K1 1/5W J               |
| R870                  | 3029472970   | RES MF 5K1 1/5W J               |
| R872-874              | 3029103970   | RES MF 10K 1/5W J               |
| R875                  | 3029102970   | RES MF 1K 1/5W J                |
| R876                  | 3029103970   | RES MF 10K 1/5W J               |
| R878-883              | 3029102970   | RES MF 1K 1/5W J                |
| R887                  | 3029102970   | RES MF 1K 1/5W J                |
| U800                  | 2168017140   | IC LC7823                       |
| U801                  | 2168220135   | IC NJM5532D                     |
| POWER SW PCB ASSEMBLY |              |                                 |
|                       | 4001000110   | PCB POWER SW B'd                |
| C833                  | 3549472109   | CAP C 0.0047uF/400VAC           |
| CN801                 | 436503402147 | CTG 0240 201 210 DL#22 7.92     |
| SW800                 | 4628000110   | POWER SW ICH                    |
| POWER PCB ASSEMBLY    |              |                                 |
|                       | 4001000160   | PCB POWER B'd                   |
| C821                  | 3419510242   | CAP E SG 1000uF/25V             |
| C822-823              | 3479310971   | CAP E SG 1uF/50V                |
| C824                  | 3479347071   | CAP E SG 47uF/50V               |
| C825                  | 3479310071   | CAP E SG 10uF/50V               |
| C826-8                | 3679473120   | CAP MYLAR 0.047uF/100V          |
| C829                  | 3509104130   | CAP C 0.1uF/50V                 |

| SYMBOL               | PART NO.     | DISCRIPTION                 |
|----------------------|--------------|-----------------------------|
| C834                 | 3509104130   | CAP C 0.1uF/50V             |
| CN804                | 436204103524 | CTG0410 S04 T04 DL#26 2.0   |
| CN807                | 436203203524 | CTG0320 S03 T03 DL#26 2.0   |
| CP805                | 4235007410   | PLATE GND                   |
| CP806                | 4428505610   | CNT PLUG MO 5267-04         |
| CP808                | 4428516110   | CNT PLUG LG GIL-S3P-S2T2-EF |
| D820-823             | 2258128002   | DIODE RECT. 1N4004          |
| D825-827             | 2058322101   | DIODE 1N4148                |
| D828                 | 2258599919   | DIODE ZENER UZ 9V1          |
| D829                 | 2258599300   | DIODE ZENER UZ 30V          |
| D830                 | 2258599439   | DIODE ZENER UZ 4V3          |
| Q821                 | 2208206105   | TR PNP BTKA1266             |
| Q822-823             | 2208606105   | TR NPN KTC3198              |
| R820                 | 3029470470   | RES MF 47- 1W J             |
| R821                 | 3029102970   | RES MF 1K 1/5W              |
| R822                 | 3029103970   | RES MF 10K 1/5W             |
| R823                 | 3029560970   | RES MF 56 1/5W              |
| R824-825             | 3029332970   | RES MF 3K3 1/5W             |
| R826                 | 3029470970   | RES MF 47 1/5W              |
| R827                 | 3029220970   | RES MF 22 1/5W J            |
| R828-829             | 3029472970   | RES MF 4K7 1/5W             |
| U802                 | 2168602105   | IC REG KIA7805              |
| STANDBY PCB ASSEMBLY |              |                             |
|                      | 4001000150   | PCB STANDBY B'd             |
| AC800                | 4448000110   | AC OUTLET 2P                |
| AC800                | 4448000210   | AC OUTLET 1P                |
| C831                 | 3549472109   | CAP C 0.0047uF/400VAC       |
| CP800                | 4428537102   | CNT PLUG MO 7.92            |
| CP801-802            | 4428536102   | CNT PLUG JE 7.92            |
| CP804                | 4428516310   | CNT PLUG LG GIL-S4P-S2T2-EF |
| D824                 | 2285128002   | DIODE RECT. 1N4004          |
| F801                 | 5508103321   | FUSE SB7A/125V              |
| F801                 | 5508302935   | FUSE T4AL/250V              |
| F802                 | 5508101421   | FUSE SB315mA/125V           |
| F802                 | 5508301234   | FUSE T250mA/250V            |
| F803                 | 5508102021   | FUSE SB1A/125V              |
| F803                 | 5508302035   | FUSE T1AL/250V              |
| GND800               | 4235007410   | PLATE GND                   |
| R800                 | 3029335380   | RES MF 3M3 1/2W             |
| RLY800               | 5528001640   | RELAY G5PA-1 DC12V          |
| T800                 | 2828000037   | X-FOR ST-BY 120V/60Hz       |
| T800                 | 2828000047   | X-FOR ST-BY 230V/50Hz       |
| T801                 | 2648701170   | FILTER EMI                  |
| SPEAKER PCB ASSEMBLY |              |                             |
|                      | 4001000140   | PCB SPEAKER B'd             |
| C801-804             | 3679473120   | CAP MYLAR 0.047uF/100V      |
| C805-809             | 3679472120   | CAP MYLAR 0.0047uF/100V     |
| C810                 | 3679473120   | CAP MYLAR 0.047uF/100V      |
| C811-815             | 3679472120   | CAP MYLAR 0.0047uF/100V     |
| CP807                | 4428516210   | CNT PLUG LG GIL-S3P-S2T2-EF |
| CP809                | 4428516310   | CNT PLUG LG GIL-S4P-S2T2-EF |
| CP810                | 4428536005   | CNT PLUG JE JE-202A-1T-5    |
| CP811                | 4428536002   | CNT PLUG JE JE-202A-1T-2    |
| CP812                | 4428536003   | CNT PLUG JE JE-202A-1T-3    |
| D831                 | 2258128002   | DIODE RECT. 1N4004          |
| R801-805             | 3029100570   | RES MF 10R 2W               |
| RLY801               | 5528001510   | RELAY G5Z-2A                |
| SPT800               | 4408100110   | SPKER TERMINAL 8P           |
| SPT801               | 4408100210   | SPKER TERMINAL 8P           |

# Parts List

| SYMBOL                 | PART NO.     | DISCRIPTION               | SYMBOL                          | PART NO.   | DISCRIPTION           |
|------------------------|--------------|---------------------------|---------------------------------|------------|-----------------------|
| AMPLIFIER PCB ASSEMBLY |              |                           |                                 |            |                       |
|                        | 4002000200   | PCB AMPLIFIER B'd 330*247 |                                 |            |                       |
| C215                   | 3479310971   | CAP E SG 1uF/50V          | RR205-206                       | 3029751970 | RES MF 750 1/5W J     |
| C216                   | 3479347061   | CAP E SG 47uF/35V         | RSL205-206                      | 3029751970 | RES MF 750 1/5W J     |
| C217                   | 3479310971   | CAP E SG 1uF/50V          | RSR205-206                      | 3029751970 | RES MF 750 1/5W J     |
| CC,CL,CR,CSL,CSR201    | 3479347971   | CAP E SG 4.7uF/50V        | RC,RL,RR,RSL,RSR235             | 3029182970 | RES MF 1K8 1/5W J     |
| CC,CL,CR,CSL,CSR202    | 3519271935   | CAP C AXIAL 270pF/50V     | RC,RL,RR,RSL,RSR207             | 3029102970 | RES MF 1K 1/5W J      |
| CC,CL,CR,CSL,CSR203    | 3919390935   | CAP C AXIAL 390pF/50V     | RC,RL,RR,RSL,RSR209             | 3029151970 | RES MF 150 1/5W J     |
| CC,CL,CR,CSL,CSR204    | 3479310971   | CAP E SG 1uF/50V          | RC,RL,RR,RSL,RSR210             | 3029103970 | RES MF 10K 1/5W J     |
| CC,CL,CR,CSL,CSR205    | 3479322031   | CAP E SG 22uF/16V         | RC,RL,RR,RSL,RSR211             | 3029433970 | RES MF 43K 1/5W J     |
| CC,CL,CR,CSL,CSR206    | 3479322121   | CAP E SG 220uF/10V        | RC,RL,RR,RSL,RSR212             | 3029152970 | RES MF 1K5 1/5W J     |
| CC,CL,CR,CSL,CSR207    | 3519569935   | CAP C AXIAL 5.6pF/50V     | RC,RL,RR,RSL,RSR213             | 3029333970 | RES MF 33K 1/5W J     |
| CC,CL,CR,CSL,CSR209    | 3519181935   | CAP C AXIAL 180pF/50V     | RC214-220                       | 3029561970 | RES MF 560 1/5W J     |
| CC,CL,CR,CSL,CSR210    | 3479347182   | CAP E SG 470uF/63V        | RL214-220                       | 3029561970 | RES MF 560 1/5W J     |
| CC,CL,CR,CSL,CSR211    | 3479310071   | CAP E SG 10uF/50V         | RR214-220                       | 3029561970 | RES MF 560 1/5W J     |
| CC,CL,CR,CSL,CSR212    | 3479347182   | CAP E SG 470uF/63V        | RSL214-220                      | 3029561970 | RES MF 560 1/5W J     |
| CC,CL,CR,CSL,CSR214    | 3479310071   | CAP E SG 10uF/50V         | RSR214-220                      | 3029561970 | RES MF 560 1/5W J     |
| CNT201                 | 4428 516 910 | GS 10P WAFER              | RC221-222                       | 3029820970 | RES MF 82 1/5W J      |
| CNT202                 | 436503122167 | CNT JE 2P 7.92mm 120mm    | RL221-222                       | 3029820970 | RES MF 82 1/5W J      |
| CNT203                 | 436503252166 | CNT JE 3P 3.96mm 250mm    | RR221-222                       | 3029820970 | RES MF 82 1/5W J      |
| CNT204                 | 436502402166 | CNT JE 3P 3.96mm 400mm    | RSL221-222                      | 3029820970 | RES MF 82 1/5W J      |
| CNT205                 | 436103163525 | CNT MO 3P 2.5mm 160mm     | RSR221-222                      | 3029820970 | RES MF 82 1/5W J      |
| DC201-202              | 2058322101   | DIODE 1N4148              | RC,RL,RR,RSL,RSR233             | 3059027763 | RES MPR 0.27R 5W --   |
| DL201-202              | 2058322101   | DIODE 1N4148              | RC223-224                       | 3029223970 | RES MF 22K 1/5W J     |
| DR201-202              | 2058322101   | DIODE 1N4148              | RL223-224                       | 3029223970 | RES MF 22K 1/5W J     |
| DSL201-202             | 2058322101   | DIODE 1N4148              | RR223-224                       | 3029223970 | RES MF 22K 1/5W J     |
| DSR201-202             | 2058322101   | DIODE 1N4148              | RSL223-224                      | 3029223970 | RES MF 22K 1/5W J     |
| LC,L,R,SL,SR201        | 2648601470   | INDUCTOR 0.5uH            | RSR223-224                      | 3029223970 | RES MF 22K 1/5W J     |
| QC,QL,QR,QSL,QSR209    | 2008607106   | TR NPN 2SA3423            | RC,RL,RR,RSL,RSR226             | 3029122970 | RES MF 1K2 1/5W J —   |
| QC,QL,QR,QSL,QSR211    | 2028316100   | TR NPN 2SC4883            | RC,RL,RR,RSL,RSR227             | 3029431970 | RES MF 430 1/5W J     |
| QC,QL,QR,QSL,QSR212    | 2028016100   | TR PNP 2SA1859            | RC228-229                       | 3069101270 | RES MF 100 1/4W J     |
| Q216                   | 2238006100   | TR NPN KRC107M            | RL228-229                       | 3069101270 | RES MF 100 1/4W J     |
| Q217                   | 2208206104   | TR PNP KTA1268            | RR228-229                       | 3069101270 | RES MF 100 1/4W J     |
| Q218                   | 2238006103   | TR PNP KRA107M            | RSL228-229                      | 3069101270 | RES MF 100 1/4W J     |
| QC201-204              | 2208206104   | TR PNP KTA1268            | RSR228-229                      | 3069101270 | RES MF 100 1/4W J     |
| QL201-204              | 2208206104   | TR PNP KTA1268            | RC,RL,RR,RSL,RSR230             | 3029820970 | RES MF 82 1/5W J      |
| QR201-204              | 2208206104   | TR PNP KTA1268            | RC231-232                       | 3029339970 | RES MF 3.3 1/5W J     |
| QSL201-204             | 2208206104   | TR PNP KTA1268            | RL231-232                       | 3029339970 | RES MF 3.3 1/5W J     |
| QSR201-204             | 2208206104   | TR PNP KTA1268            | RR231-232                       | 3029339970 | RES MF 3.3 1/5W J     |
| QC205-206              | 2208606108   | TR NPN KTC3200            | RSL231-232                      | 3029339970 | RES MF 3.3 1/5W J     |
| QL205-206              | 2208606108   | TR NPN KTC3200            | RSR231-232                      | 3029339970 | RES MF 3.3 1/5W J     |
| QR205-206              | 2208606108   | TR NPN KTC3200            | RC,RL,RR,RSL,RSR236             | 3029202970 | RES MF 2K 1/5W J      |
| QSL205-206             | 2208606108   | TR NPN KTC3200            | RC,RL,RR,RSL,RSR237             | 3029971970 | RES MF 910 1/5W J     |
| QSR205-206             | 2208606108   | TR NPN KTC3200            | RC,RL,RR,RSL,RSR238             | 3029682970 | RES MF 6K8 1/5W J     |
| QC,QL,QR,QSL,QSR207    | 2208206104   | TR PNP KTA1268            | RC239-242                       | 3029390970 | RES MF 39 1/5W J      |
| QC,QL,QR,QSL,QSR208    | 2008207101   | TR PNP 2SA1360            | RL239-242                       | 3029390970 | RES MF 39 1/5W J      |
| QC,QL,QR,QSL,QSR215    | 2208606108   | TR NPN KTC3200            | RR239-242                       | 3029390970 | RES MF 39 1/5W J      |
| QC,QL,QR,QSL,QSR219    | 2208622113   | TR NPN DTC323             | RSL239-242                      | 3029390970 | RES MF 39 1/5W J      |
| R237                   | 3029104970   | RES MF 100K 1/5W J        | RSR239-242                      | 3029390970 | RES MF 39 1/5W J      |
| R238                   | 3029683970   | RES MF 68K 1/5W J         | RC244-245                       | 3029561970 | RES MF 560 1/5W J     |
| R243                   | 3029154970   | RES MF 150K 1/5W J        | RL244-245                       | 3029561970 | RES MF 560 1/5W J     |
| R244-245               | 3029152970   | RES MF 1K5 1/5W J         | RR244-245                       | 3029561970 | RES MF 560 1/5W J     |
| R246                   | 3029332970   | RES MF 3K3 1/5W J         | RSL244-245                      | 3029561970 | RES MF 560 1/5W J     |
| R247                   | 3029102970   | RES MF 1K 1/5W J          | RSR244-245                      | 3029561970 | RES MF 560 1/5W J     |
| RC,RL,RR,SL,SR208      | 3029680970   | RES MF 68 1/5W J          | RC,RL,RR,RSL,RSR245             | 3029223970 | RES MF 22K 1/5W J     |
| RC,RL,RR,RSL,RSR201    | 3029102970   | RES MF 1K 1/5W J          | ZD201                           | 2258599116 | ZENER DIODE 12V       |
| RC,RL,RR,RSL,RSR202    | 3029333970   | RES MF 33K 1/5W J         | DOLBY DIGITAL/ dts PCB ASSEMBLY |            |                       |
| RC203-204              | 3029150970   | RES MF 15 1/5W J          |                                 | 4002000700 | PCB DTS B'd 243*164   |
| RL203-204              | 3029150970   | RES MF 15 1/5W J          | C900                            | 3479110031 | CAP E SE 10uF/16V     |
| RR203-204              | 3029150970   | RES MF 15 1/5W J          | C901                            | 3536104122 | CAP C CHIP 0.1uF/50V  |
| RSL203-204             | 3029150970   | RES MF 15 1/5W J          | C902-903                        | 3536222122 | CAP C CHIP 2200pF/50V |
| RSR203-204             | 3029150970   | RES MF 15 1/5W J          | C904-905                        | 3536104122 | CAP C CHIP 0.1uF/50V  |
| RC205-206              | 3029751970   | RES MF 750 1/5W J         | C906-909                        | 3536222122 | CAP C CHIP 2200pF/50V |
| RL205-206              | 3029751970   | RES MF 750 1/5W J         | C910                            | 3536104122 | CAP C CHIP 0.1uF/50V  |
|                        |              |                           | C911                            | 3479110031 | CAP E SE 10uF/16V     |

## Parts List

| SYMBOL    | PART NO.   | DISCRIPTION            | SYMBOL     | PART NO.   | DISCRIPTION           |
|-----------|------------|------------------------|------------|------------|-----------------------|
| C912-913  | 3536222122 | CAP C CHIP 2200pF/50V  | L904       | 2648702141 | BEAD 2012 HS470       |
| C914-915  | 3536470122 | CAP C CHIP 47pF/50V    | L905       | 2648702140 | BEAD 1608 LM182       |
| C916-919  | 3479122041 | CAP E SE 22uF/25V      | L906       | 2648702141 | BEAD 2012 HS470       |
| C920-923  | 3536104122 | CAP C CHIP 0.1uF/50V   | L907       | 2648702140 | BEAD 1608 LM182       |
| C925      | 3479147021 | CAP E SE 47uF/6.3V     | L908-909   | 2648702141 | BEAD 2012 HS470       |
| C926      | 3536104122 | CAP C CHIP 0.1uF/50V   | L910       | 2648702140 | BEAD 1608 LM182       |
| C927      | 3536152122 | CAP C CHIP 1500pF/50V  | L911       | 3099000170 | RES CHIP 0 1/8W J     |
| C928      | 3536153122 | CAP C CHIP 0.015uF/50V | L912       | 2648702141 | BEAD 2012 HS470       |
| C929      | 3536104122 | CAP C CHIP 0.1uF/50V   | L913-918   | 2648702142 | BEAD 1608 HS241       |
| C930      | 3479147021 | CAP E SE 47uF/6.3V     | L919-922   | 2648702140 | BEAD 1608 LM182       |
| C931      | 3479110971 | CAP E SE 1uF/50V       | Q901-904   | 2207206001 | TR NPN CHIP DTC143ZKA |
| C932      | 3479147021 | CAP E SE 47uF/6.3V     | Q907-910   | 2207206001 | TR NPN CHIP DTC143ZKA |
| C933      | 3536104122 | CAP C CHIP 0.1uF/50V   | Q912       | 2207206001 | TR NPN CHIP DTC143ZKA |
| C935      | 3479110031 | CAP E SE 10uF/16V      | R900       | 3099100170 | RES CHIP 10 1/8W J    |
| C936-937  | 3536104122 | CAP C CHIP 0.1uF/50V   | R901       | 3099473170 | RES CHIP 47K 1/8W J   |
| C938      | 3479110031 | CAP E SE 10uF/16V      | R902       | 3099203170 | RES CHIP 20K 1/8W J   |
| C939      | 3536104122 | CAP C CHIP 0.1uF/50V   | R903       | 3099102170 | RES CHIP 1K 1/8W J    |
| C941-942  | 3479122041 | CAP E SE 22uF/25V      | R904       | 3099103170 | RES CHIP 10K 1/8W J   |
| C943-948  | 3536104122 | CAP C CHIP 0.1uF/50V   | R905       | 3099470170 | RES CHIP 47 1/8W J    |
| C950      | 3479147021 | CAP E SE 47uF/6.3V     | R906       | 3099473170 | RES CHIP 47K 1/8W J   |
| C951      | 3536104122 | CAP C CHIP 0.1uF/50V   | R907       | 3099203170 | RES CHIP 20K 1/8W J   |
| C954-963  | 3536104122 | CAP C CHIP 0.1uF/50V   | R908       | 3099102170 | RES CHIP 1K 1/8W J    |
| C964      | 3479110031 | CAP E SE 10uF/16V      | R909       | 3099103170 | RES CHIP 10K 1/8W J   |
| C965      | 3479147021 | CAP E SE 47uF/6.3V     | R910       | 3099470170 | RES CHIP 47 1/8W J    |
| C966-968  | 3536104122 | CAP C CHIP 0.1uF/50V   | R911       | 3099820170 | RES CHIP 82 1/8W J    |
| C970      | 3536104122 | CAP C CHIP 0.1uF/50V   | R912       | 3099203170 | RES CHIP 20K 1/8W J   |
| C971      | 3479147021 | CAP E SE 47uF/6.3V     | R913       | 3099822170 | RES CHIP 4K7 1/8W J   |
| C972      | 3536471122 | CAP C CHIP 470pF/50V   | R914       | 3099103170 | RES CHIP 20K 1/8W J   |
| C973      | 3536104122 | CAP C CHIP 0.1uF/50V   | R915       | 3099102170 | RES CHIP 1K 1/8W J    |
| C980-989  | 3536104122 | CAP C CHIP 0.1uF/50V   | R917       | 3099470170 | RES CHIP 47 1/8W J    |
| CCT901    | 3479110031 | CAP E SE 10uF/16V      | R918       | 3099820170 | RES CHIP 82 1/8W J    |
| CFL901    | 3479110031 | CAP E SE 10uF/16V      | R919       | 3099203170 | RES CHIP 20K 1/8W J   |
| CFR901    | 3479110031 | CAP E SE 10uF/16V      | R920       | 3099822170 | RES CHIP 4K7 1/8W J   |
| CSL901    | 3479110031 | CAP E SE 10uF/16V      | R921       | 3099103170 | RES CHIP 20K 1/8W J   |
| CSR901    | 3479110031 | CAP E SE 10uF/16V      | R922       | 3099102170 | RES CHIP 1K 1/8W J    |
| CSW901    | 3479110031 | CAP E SE 10uF/16V      | R923       | 3099103170 | RES CHIP 10K 1/8W J   |
| CCT902    | 3536471122 | CAP C CHIP 470pF/50V   | R924       | 3099470170 | RES CHIP 47 1/8W J    |
| CFL902    | 3536471122 | CAP C CHIP 470pF/50V   | R925-926   | 3099221170 | RES CHIP 220 1/8W J   |
| CFR902    | 3536471122 | CAP C CHIP 470pF/50V   | R929-930   | 3099221170 | RES CHIP 220 1/8W J   |
| CSL902    | 3536471122 | CAP C CHIP 470pF/50V   | R931-933   | 3099103170 | RES CHIP 10K 1/8W J   |
| CSR902    | 3536471122 | CAP C CHIP 470pF/50V   | R934       | 3099333170 | RES CHIP 33K 1/8W J   |
| CCT903    | 3536222122 | CAP C CHIP 2200pF/50V  | R935       | 3099103170 | RES CHIP 10K 1/8W J   |
| CFL903    | 3536222122 | CAP C CHIP 2200pF/50V  | R936       | 3099229170 | RES CHIP 2.2 1/8W J   |
| CFR903    | 3536222122 | CAP C CHIP 2200pF/50V  | R938       | 3099103170 | RES CHIP 10K 1/8W J   |
| CSL903    | 3536222122 | CAP C CHIP 2200pF/50V  | R939-940   | 3099470170 | RES CHIP 47 1/8W J    |
| CSR903    | 3536222122 | CAP C CHIP 2200pF/50V  | R952-954   | 3099470170 | RES CHIP 47 1/8W J    |
| CCT904    | 3536152122 | CAP C CHIP 1500pF/50V  | R955-956   | 3099221170 | RES CHIP 220 1/8W J   |
| CFL904    | 3536152122 | CAP C CHIP 1500pF/50V  | R975       | 3099103170 | RES CHIP 10K 1/8W J   |
| CFR904    | 3536152122 | CAP C CHIP 1500pF/50V  | R976       | 3099472170 | RES CHIP 4.7K 1/8W J  |
| CSR904    | 3536152122 | CAP C CHIP 1500pF/50V  | R977       | 3099103170 | RES CHIP 10K 1/8W J   |
| CSL904    | 3536152122 | CAP C CHIP 1500pF/50V  | R978       | 3099472170 | RES CHIP 4.7K 1/8W J  |
| CCT905    | 3479110031 | CAP E SE 10uF/16V      | R979-980   | 3099103170 | RES CHIP 10K 1/8W J   |
| CFL905    | 3479110031 | CAP E SE 10uF/16V      | R981-982   | 3099103170 | RES CHIP 10K 1/8W J   |
| CFR905    | 3479110031 | CAP E SE 10uF/16V      | R983       | 3099103170 | RES CHIP 10K 1/8W J   |
| CSL905    | 3479110031 | CAP E SE 10uF/16V      | R986       | 3099470170 | RES CHIP 47 1/8W J    |
| CSR905    | 3479110031 | CAP E SE 10uF/16V      | R987-989   | 3099470170 | RES CHIP 47 1/8W J    |
| CSW905    | 3479110031 | CAP E SE 10uF/16V      | R990-997   | 3099103170 | RES CHIP 10K 1/8W J   |
| CT900-909 | 3536104122 | CAP C CHIP 0.1uF/50V   | RCT902     | 3099104170 | RES CHIP 100K 1/8W J  |
| CT910     | 3479110031 | CAP E SE 10uF/16V      | RFL902     | 3099104170 | RES CHIP 100K 1/8W J  |
| CT911     | 3536104122 | CAP C CHIP 0.1uF/50V   | RFR902     | 3099104170 | RES CHIP 100K 1/8W J  |
| CT913     | 3536471122 | CAP C CHIP 470pF/50V   | RSL902     | 3099104170 | RES CHIP 100K 1/8W J  |
| CL901-903 | 3479110031 | CAP E SE 10uF/16V      | RSR902     | 3099104170 | RES CHIP 100K 1/8W J  |
| CR901-903 | 3479110031 | CAP E SE 10uF/16V      | RSW902     | 3099104170 | RES CHIP 100K 1/8W J  |
| CSW902-4  | 3536104122 | CAP C CHIP 0.1uF/50V   | RCT903-905 | 3099152170 | RES CHIP 1K5 1/8W J   |
| D901,902  | 2257104100 | DIODE CHIP KDS226RTK   | RFL903-905 | 3099152170 | RES CHIP 1K5 1/8W J   |
| L901-2    | 2648702140 | BEAD 1608 LM182        | RFR903-905 | 3099152170 | RES CHIP 1K5 1/8W J   |

# Parts List

| SYMBOL                 | PART NO.     | DISCRIPTION                 |
|------------------------|--------------|-----------------------------|
| RSL903-905             | 3099152170   | RES CHIP 1K5 1/8W J         |
| RSR903-905             | 3099152170   | RES CHIP 1K5 1/8W J         |
| RSW903-905             | 3099152170   | RES CHIP 1K5 1/8W J         |
| RCT906-907             | 3099472170   | RES CHIP 4.7K 1/8W J        |
| RFL906-907             | 3099472170   | RES CHIP 4.7K 1/8W J        |
| RFR906-907             | 3099472170   | RES CHIP 4.7K 1/8W J        |
| RSL906-907             | 3099472170   | RES CHIP 4.7K 1/8W J        |
| RSR906-907             | 3099472170   | RES CHIP 4.7K 1/8W J        |
| RSW906-907             | 3099472170   | RES CHIP 4.7K 1/8W J        |
| RCT908                 | 3099104170   | RES CHIP 100K 1/8W J        |
| RFL908                 | 3099104170   | RES CHIP 100K 1/8W J        |
| RFR908                 | 3099104170   | RES CHIP 100K 1/8W J        |
| RSL908                 | 3099104170   | RES CHIP 100K 1/8W J        |
| RSR908                 | 3099104170   | RES CHIP 100K 1/8W J        |
| RSW908                 | 3099104170   | RES CHIP 100K 1/8W J        |
| RT900-912              | 3099203170   | RES CHIP 20K 1/8W J         |
| RT915-917              | 3099470170   | RES CHIP 47 1/8W J          |
| RT918-924              | 3099203170   | RES CHIP 20K 1/8W J         |
| RT925                  | 3099470170   | RES CHIP 47 1/8W J          |
| RL,RR902-903           | 3099104170   | RES CHIP 100K 1/8W J        |
| RL,RR904               | 3099203170   | RES CHIP 20K 1/8W J         |
| RL,RR905-907           | 3099103170   | RES CHIP 10K 1/8W J         |
| RL,RR908               | 3099104170   | RES CHIP 100K 1/8W J        |
| RL,RR909-910           | 3099102170   | RES CHIP 1K 1/8W J          |
| RL,RR911               | 3099104170   | RES CHIP 100K 1/8W J        |
| RM901                  | 3099100170   | RES CHIP 10 1/8W J          |
| RM903                  | 3099100170   | RES CHIP 10 1/8W J          |
| RM904-925              | 3099103170   | RES CHIP 10K 1/8W J         |
| RM926                  | 3099100170   | RES CHIP 10 1/8W J          |
| RM930                  | 3099100170   | RES CHIP 10 1/8W J          |
| U901,902               | 2408218001   | OPTO RCVR TORX178A          |
| U903-904               | 2109001130   | IC 74VHC04                  |
| U905-906               | 2168220135   | IC OP AMP CHIP NJM5532      |
| U907                   | 2139941001   | IC AD/DA CONV. CS4226       |
| U908                   | 2139809001   | IC 24-BIT DSP 56009         |
| U909                   | 2139402150   | IC RAM CY7C199              |
| U910                   | 2138400130   | IC EPROM 27C010             |
| U911                   | 2109001140   | IC 74VHC393                 |
| U912                   | 2109001100   | IC 74VHC157                 |
| U913-915               | 2168220142   | IC OP AMP CHIP NJM5532M     |
| U916                   | 2139941002   | IC DD DECODER CS4923        |
| U917                   | 2109001110   | IC 74VHC244                 |
| U918                   | 2138400130   | IC EPROM 27C010             |
| U919-920               | 2109001150   | IC 74VHC574                 |
| U921                   | 2109001120   | IC 74VHC125                 |
| U922                   | 2168639100   | IC REG BA033FP              |
| U923                   | 2109001130   | IC 74VHC04                  |
| U924                   | 2109001110   | IC 74VHC244                 |
| U925                   | 2139322743   | IC CXP823P24Q               |
| XT901                  | 3938131490   | OSC 1MHz                    |
| XT902                  | 3908101680   | OSC 49.152MHz               |
| XT903                  | 3908101156   | RESONATOR 10MHz             |
| RCA901                 |              |                             |
| ETC                    |              |                             |
|                        | 2828000017   | POWER TRANSFORMER 120V/60Hz |
|                        | 2828000027   | POWER TRANSFORMER 230V/50Hz |
|                        | 436629301182 | FPC CABLE 29P 300mm         |
|                        | 436631301182 | FPC CABLE 31P 300mm         |
| PROCESSOR PCB ASSEMBLY |              |                             |
|                        | 4002000500   | PCB PROCESSOR 247*247       |

| SYMBOL             | PART NO.     | DISCRIPTION                     |
|--------------------|--------------|---------------------------------|
| C501-520           | 3479347041   | CAP. E. SG 47uF/25              |
| C521               | 3536101122   | CAP C CHIP 100pF/50             |
| CB501              | 4428863215   | CNT Housing 20-8283-1512-00-000 |
| CB502              | 4428863210   | CNT Housing 20-8283-1012-00-000 |
| CB503              | 4428863205   | CNT Housing 20-8283-0512-00-000 |
| CC,CSL,CSR502      | 3536821122   | CAP C CHIP 820pF/50             |
| CC501              | 3479347971   | CAP. E. SG 4.7uF/50             |
| CC503              | 3536101122   | CAP C CHIP 100pF/50             |
| CC504              | 3479347971   | CAP. E. SG 4.7uF/50             |
| CC505-506          | 3479347041   | CAP. E. SG 47uF/25              |
| CC512              | 3479347971   | CAP. E. SG 4.7uF/50             |
| CC513              | 3536821122   | CAP C CHIP 820pF/50             |
| CC514              | 3536101122   | CAP C CHIP 100pF/50             |
| CC515-516          | 3479347971   | CAP. E. SG 4.7uF/50             |
| CF501              | 3536101122   | CAP C CHIP 100pF/50             |
| CF504-507          | 3479347041   | CAP. E. SG 47uF/25              |
| CF508              | 3536101122   | CAP C CHIP 100pF/50             |
| CFL,CFR501         | 3479310071   | CAP. E. SG 10uF/50              |
| CFL,CFR502-503     | 3536101122   | CAP C CHIP 100pF/50             |
| CFL,CFR504-6       | 3479347971   | CAP. E. SG 4.7uF/50             |
| CFL,CFR507-508     | 3536101122   | CAP C CHIP 100pF/50             |
| CFL,CFR509-10      | 3479347971   | CAP. E. SG 4.7uF/50             |
| CFL,CFR511         | 3536101122   | CAP C CHIP 100pF/50             |
| CFL,CFR517         | 3536270122   | CAP C CHIP 27pF/50              |
| CFL,CFR518         | 3479301071   | CAP. E. SG 1uF/50               |
| CFL,CFR519         | 3479347971   | CAP. E. SG 4.7uF/50             |
| CFL,CFR520         | 3679683120   | CAP M RADIAL 683M               |
| CFL,CFR521         | 3679123120   | CAP M RADIAL 123M               |
| CFL,CFR522         | 3679272120   | CAP M RADIAL 272M               |
| CFL,CFR523         | 3679223120   | CAP M RADIAL 223M               |
| CFL,CFR524         | 3479310071   | CAP. E. SG 10uF/50              |
| CFL,CFR525         | 3479347971   | CAP. E. SG 4.7uF/50             |
| CML501             | 3479347971   | CAP. E. SG 4.7uF/50             |
| CMR501             | 3479347971   | CAP. E. SG 4.7uF/50             |
| CSL501             | 3479347971   | CAP. E. SG 4.7uF/50             |
| CSR501             | 3479347971   | CAP. E. SG 4.7uF/50             |
| CSW501             | 3479347971   | CAP. E. SG 4.7uF/50             |
| CML,CMR,CSW502     | 3536104122   | CAP C CHIP 104C                 |
| CML,CMR503         | 3479310071   | CAP. E. SG 10uF/50              |
| CN501              | 436211083524 | CTG 1108 S11,T10 DL #26 2.0     |
| CN502              | 436210107724 | CTG 1010 S10,T10 DS #26 2.0     |
| CS502-503          | 3479347041   | CAP. E. SG 47uF/25              |
| CSL,CSR,CSW503     | 3536101122   | CAP C CHIP 100pF/50             |
| CSL,CSR,CSW504-505 | 3479347971   | CAP. E. SG 4.7uF/50             |
| CSL,CSR507         | 3536101122   | CAP C CHIP 100pF/50             |
| CSL,CSR,CSW508-509 | 3479347971   | CAP. E. SG 4.7uF/50             |
| CSL,CSR506         | 3536821122   | CAP C CHIP 820pF/50             |
| CSW506             | 3536563122   | CAP C CHIP 563C                 |
| CSW507             | 3536222122   | CAP C CHIP 222C                 |
| CSW510             | 3536563122   | CAP C CHIP 563C                 |
| CSW511             | 3536822122   | CAP C CHIP 822C                 |
| CSW512-514         | 3479347971   | CAP. E. SG 4.7uF/50             |
| CSW515             | 3536563122   | CAP C CHIP 563C                 |
| CSW516             | 3536102122   | CAP C CHIP 102C                 |
| CSW517-518         | 3479347971   | CAP. E. SG 4.7uF/50             |
| JC,JF510           | 3099000170   | CHIP RES. 0 1/8W                |
| JC505              | 3099000170   | CHIP RES. 0 1/8W                |
| JC522              | 3099000170   | CHIP RES. 0 1/8W                |
| JF515              | 3099000170   | CHIP RES. 0 1/8W                |
| JF536              | 3099000170   | CHIP RES. 0 1/8W                |
| JF549              | 3099000170   | CHIP RES. 0 1/8W                |
| JF550              | 3099000170   | CHIP RES. 0 1/8W                |
| QC,QS,QSW501       | 2257103110   | SILICON C Diodes KDS184RTK      |
| QF502              | 2257103110   | SILICON C Diodes KDS184RTK      |
| QC,QS,QSW502,QF501 | 2238006103   | PNP Transistor KRA107M          |
| QFL501,QFR501      | 2238422100   | NPN Transistor DTC323           |

# Parts List

| SYMBOL               | PART NO.   | DISCRIPTION           |
|----------------------|------------|-----------------------|
| QSL,QSR501,QC,QSW503 | 2238422100 | NPN Transistor DTC323 |
| R501-520             | 3029221970 | RES. MF 220 1/5W J    |
| R521-3               | 3099102170 | CHIP RES. 1K 1/8W     |
| R549                 | 3029102970 | RES. MF 1K 1/5W J     |
| R550                 | 3099102170 | CHIP RES. 1K 1/8W     |
| RC,RSL,RSR,RSW503    | 3099822170 | CHIP RES. 8.2K 1/8W   |
| RC,RSL,RSR,RSW504    | 3099272170 | CHIP RES. 2.7K 1/8W   |
| RC502                | 3099104170 | CHIP RES. 100K 1/8W   |
| RC505                | 3099104170 | CHIP RES. 100K 1/8W   |
| RC508                | 3099102170 | CHIP RES. 1K 1/8W     |
| RC509-10             | 3029221970 | RES. MF 220 1/5W J    |
| RC511                | 3029332970 | RES. MF 3.3K 1/5W J   |
| RC512                | 3099104170 | CHIP RES. 100K 1/8W   |
| RC513                | 3099912170 | CHIP RES. 9.1K 1/8W   |
| RC514                | 3099222170 | CHIP RES. 2.2K 1/8W   |
| RC515                | 3099104170 | CHIP RES. 100K 1/8W   |
| RC516                | 3029102970 | RES. MF 1K 1/5W J     |
| RC517                | 3029103970 | RES. MF 10K 1/5W J    |
| RF509                | 3029103970 | RES. MF 10K 1/5W J    |
| RS504                | 3029103970 | RES. MF 10K 1/5W J    |
| RSW526               | 3029103970 | RES. MF 10K 1/5W J    |
| RC519                | 3099104170 | CHIP RES. 100K 1/8W   |
| RC520                | 3099102170 | CHIP RES. 1K 1/8W     |
| RF,RS502-503         | 3029221970 | RES. MF 220 1/5W J    |
| RF501                | 3099332170 | CHIP RES. 3.3K 1/8W   |
| RF504-505            | 3029561970 | RES. MF 560 1/5W J    |
| RF506-507            | 3029102970 | RES. MF 1K 1/5W J     |
| RF508                | 3099102170 | CHIP RES. 1K 1/8W     |
| RF509                | 3029103970 | RES. MF 10K 1/5W J    |
| RFL,RFR501-502       | 3099102170 | CHIP RES. 1K 1/8W     |
| RFL,RFR503           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL,RFR504-505       | 3099472170 | CHIP RES. 4.7K 1/8W   |
| RFL,RFR506           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL,RFR508           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL,RFR509           | 3099102170 | CHIP RES. 1K 1/8W     |
| RFL,RFR510           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL,RFR511           | 3099822170 | CHIP RES. 8.2K 1/8W   |
| RFL,RFR513           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL,RFR514           | 3099102170 | CHIP RES. 1K 1/8W     |
| RFL,RFR515           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL,RFR516           | 3099474170 | CHIP RES. 470K 1/8W   |
| RFL,RFR517           | 3099823170 | CHIP RES. 82K 1/8W    |
| RFL,RFR518           | 3099393170 | CHIP RES. 39K 1/8W    |
| RFL,RFR519           | 3099564170 | CHIP RES. 560K 1/8W   |
| RFL,RFR520           | 3099472170 | CHIP RES. 4.7K 1/8W   |
| RFL,RFR521           | 3099273170 | CHIP RES. 27K 1/8W    |
| RFL,RFR522           | 3099562170 | CHIP RES. 5.6K 1/8W   |
| RFL,RFR523           | 3099122170 | CHIP RES. 1.2K 1/8W   |
| RFL,RFR524           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL,RFR525           | 3099102170 | CHIP RES. 1K 1/8W     |
| RFL,RFR526           | 3099104170 | CHIP RES. 100K 1/8W   |
| RFL507,RFR507        | 3029102970 | RES. MF 1K 1/5W J     |
| RML501               | 3099102170 | CHIP RES. 1K 1/8W     |
| RMR501               | 3099102170 | CHIP RES. 1K 1/8W     |
| RSL501               | 3099102170 | CHIP RES. 1K 1/8W     |
| RSR501               | 3099102170 | CHIP RES. 1K 1/8W     |
| RC501                | 3099102170 | CHIP RES. 1K 1/8W     |
| RML,RMR502-503       | 3099104170 | CHIP RES. 100K 1/8W   |
| RML,RMR504           | 3099822170 | CHIP RES. 8.2K 1/8W   |
| RS501                | 3029332970 | RES. MF 3.3K 1/5W J   |
| RS505                | 3029102970 | RES. MF 1K 1/5W J     |
| RSL,RSR,RSW502       | 3099104170 | CHIP RES. 100K 1/8W   |
| RSL,RSR,RSW505       | 3099104170 | CHIP RES. 100K 1/8W   |
| RSL,RSR,RSW508       | 3099104170 | CHIP RES. 100K 1/8W   |
| RSL,RSR,RSW511       | 3099104170 | CHIP RES. 100K 1/8W   |
| RSL,RSR,RSW512       | 3029102970 | RES. MF 1K 1/5W J     |

| SYMBOL               | PART NO.   | DISCRIPTION                  |
|----------------------|------------|------------------------------|
| RSL,RSR,RSW513       | 3099104170 | CHIP RES. 100K 1/8W          |
| RSL,RSR506-507       | 3099102170 | CHIP RES. 1K 1/8W            |
| RSL,RSR509           | 3099912170 | CHIP RES. 9.1K 1/8W          |
| RSL,RSR510           | 3099222170 | CHIP RES. 2.2K 1/8W          |
| RSW501               | 3099102170 | CHIP RES. 1K 1/8W            |
| RSW506               | 3029102970 | RES. MF 1K 1/5W J            |
| RSW507               | 3099102170 | CHIP RES. 1K 1/8W            |
| RSW509               | 3099822170 | CHIP RES. 8.2K 1/8W          |
| RSW510,              | 3099332170 | CHIP RES. 3.3K 1/8W          |
| RSW514               | 3099332170 | CHIP RES. 3.3K 1/8W          |
| RSW515               | 3099472170 | CHIP RES. 4.7K 1/8W          |
| RSW517               | 3099102170 | CHIP RES. 1K 1/8W            |
| RSW518               | 3099104170 | CHIP RES. 100K 1/8W          |
| RSW519               | 3099102170 | CHIP RES. 1K 1/8W            |
| RSW520               | 3099104170 | CHIP RES. 100K 1/8W          |
| RSW521               | 3099912170 | CHIP RES. 9.1K 1/8W          |
| RSW522               | 3099222170 | CHIP RES. 2.2K 1/8W          |
| RSW523               | 3099104170 | CHIP RES. 100K 1/8W          |
| RSW524               | 3029102970 | RES. MF 1K 1/5W J            |
| RSW526               | 3029103970 | RES. MF 10K 1/5W J           |
| RSW527               | 3099104170 | CHIP RES. 100K 1/8W          |
| U501                 | 2168220142 | IC OP AMP CHIP NJM5532M      |
| U502                 | 2138007120 | IC TC9459F ELECTRONICS VR    |
| U503-4               | 2168220142 | IC OP AMP CHIP NJM5532M      |
| U505                 | 2138007130 | IC TC9184P ELECTRONICS TONE  |
| U506                 | 2168220142 | IC OP AMP CHIP NJM5532M      |
| U507                 | 2138007120 | IC TC9459F ELECTRONICS VR    |
| U508-511             | 2168220142 | IC OP AMP CHIP NJM5532M      |
| U512                 | 2138007120 | IC TC9459F ELECTRONICS VR    |
| U513                 | 2168220142 | IC OP AMP CHIP NJM5532M      |
| U514                 | 2168020108 | IC NJU7311AM ANALOG FUNC.SW. |
| ZD501-502            | 2258599919 | DIODE ZENER UZ9V1            |
| RCA501               | 4438100120 | RCA JACK 2PIN(W,R)           |
| RCA502               | 4438100320 | RCA JACK 6PIN(WWW,RRR)       |
| RCA503               | 4438100920 | RCA JACK 2PIN(BLACK)         |
| C-VIDEO PCB ASSEMBLY |            |                              |
|                      | 4002000600 | PCB VIDEO 247*247            |
| C401                 | 3519104135 | CAP. AXIAL. 0.1UF/50         |
| C405                 | 3479347021 | CAP .E. SG 47UF/16           |
| C406                 | 3479310131 | CAP .E. SG 100UF/16          |
| C407-408             | 3479347111 | CAP. E. SG 470/6.3           |
| C409                 | 3479310071 | CAP. E. SG 10UF/50           |
| C410                 | 3479347021 | CAP .E. SG 47UF/16           |
| C411                 | 3519103435 | CAP. AXIAL. 0.01UF/50        |
| C412                 | 3479347021 | CAP .E. SG 47UF/16           |
| C414                 | 3479310071 | CAP. E. SG 10UF/50           |
| C415                 | 3479347021 | CAP .E. SG 47UF/16           |
| C416                 | 3519103435 | CAP. AXIAL. 0.01UF/50        |
| C417                 | 3479347021 | CAP .E. SG 47UF/16           |
| C418                 | 3519104135 | CAP. AXIAL. 0.1UF/50         |
| C420                 | 3519103435 | CAP. AXIAL. 0.01UF/50        |
| C421-423             | 3519101935 | CAP. AXIAL. 100PF/50         |
| C427                 | 3519101935 | CAP. AXIAL. 100PF/50         |
| C428                 | 3479347871 | CAP. E. SG 0.47UF/50         |
| C429                 | 3519103435 | CAP. AXIAL. 0.01UF/50        |
| C430                 | 3479347021 | CAP .E. SG 47UF/16           |
| C432                 | 3479347971 | CAP. E. SG 1UF/50            |
| C436                 | 3528330210 | CAP. DISK. 33P-R(CH)         |
| C437                 | 3519104135 | CAP. AXIAL. 0.1UF/50         |
| C438-439             | 3528560210 | CAP. DISK. 56P-R(CH)         |
| C440                 | 3479347021 | CAP .E. SG 47UF/16           |
| C441                 | 3519103435 | CAP. AXIAL. 0.01UF/50        |
| C442                 | 3528330210 | CAP. DISK. 33P-R(CH)         |

# Parts List

| SYMBOL               | PART NO.   | DISCRIPTION             |
|----------------------|------------|-------------------------|
| C443                 | 3479310971 | CAP. E. SG 1UF/50       |
| C444-445             | 3519103435 | CAP. AXIAL. 0.01UF/50   |
| C446                 | 3479310971 | CAP. E. SG 1UF/50       |
| C448                 | 3519101935 | CAP. AXIAL. 100PF/50    |
| CN400                | 4428863215 | CNT Housing 20-8283-015 |
| L400                 | 2648610082 | COIL. AXIAL. 10UH       |
| L401                 | 2648610182 | COIL. AXIAL. 100UH      |
| Q401                 | 2208222106 | TR PNP 2SA933           |
| R401-404             | 3029750970 | RES MF 75 1/5W J        |
| R405                 | 3029181970 | RES MF 180 1/5W J       |
| R406-407             | 3029750970 | RES MF 75 1/5W J        |
| R408-409             | 3029101970 | RES MF 100 1/5W J       |
| R410-411             | 3029473970 | RES MF 47K 1/5W J       |
| R412-414             | 3029102970 | RES MF 1K 1/5W J        |
| R415-417             | 3029101970 | RES MF 100 1/5W J       |
| R418                 | 3029512970 | RES MF 5.1K 1/5W J      |
| R419-420             | 3029471970 | RES MF 470 1/5W J       |
| R421                 | 3029472970 | RES MF 4.7K 1/5W J      |
| R422-423             | 3029471970 | RES MF 470 1/5W J       |
| R424                 | 3029105970 | RES MF 1M 1/5W J        |
| R425                 | 3029392970 | RES MF 3.9K 1/5W J      |
| R426                 | 3029101970 | RES MF 100 1/5W J       |
| R427                 | 3029122970 | RES MF 1.2K 1/5W J      |
| R428                 | 3029101970 | RES MF 100 1/5W J       |
| R431                 | 3029680970 | RES MF 68 1/5W J        |
| R434                 | 3029204970 | RES MF 200K 1/5W J      |
| R435                 | 3029223970 | RES MF 22K 1/5W J       |
| R436                 | 3029104970 | RES MF 100K 1/5W J      |
| R438                 | 3029750970 | RES MF 75 1/5W J        |
| R439                 | 3029184970 | RES MF 180K 1/5W J      |
| U400-401             | 2168017141 | IC LC7824               |
| U402                 | 2108499133 | VIDEO AMP MC14577       |
| U403                 | 2168222113 | OSD IC KS5520           |
| X400                 | 3908111610 | X-TAL. 14.31818MHZ      |
| X400                 | 3908101000 | X-TAL. 17.74475MHZ      |
| RCA401,402           | 4438100520 | RCA JACK 3PIN(YELLOW)   |
| RCA403               | 4438100720 | RCA JACK 1PIN(YELLOW)   |
| S-VIDEO PCB ASSEMBLY |            |                         |
|                      | 4002000610 | PCB VIDEO 247*247       |
| C406                 | 3479310121 | CAP. E. SG100UF/16      |
| C450-452             | 3519101935 | CAP. AXIAL. 100PF/50    |
| C453                 | 3479310071 | CAP. E. SG 10UF/50      |
| C454                 | 3479347111 | CAP. E. SG 470/6.3      |
| C455                 | 3479310071 | CAP. E. SG 10UF/50      |
| C456                 | 3519103435 | CAP. AXIAL. 0.01UF/50   |
| C457                 | 3479322971 | CAP. E. SG 2.2UF/50     |
| C458-459             | 3479310071 | CAP. E. SG 10UF/50      |
| C460-461             | 3479310071 | CAP. E. SG 10UF/50      |
| C462                 | 3479322971 | CAP. E. SG 2.2UF/50     |
| C463                 | 3479347111 | CAP. E. SG 470/6.3      |
| C464                 | 3479347021 | CAP. E. SG 47UF/16      |
| C465                 | 3479310071 | CAP. E. SG 10UF/50      |
| C466                 | 3479347111 | CAP. E. SG 470/6.3      |
| C467-470             | 3479347021 | CAP. E. SG 47UF/16      |
| CN451                | 4428863213 | CNT Housing 20-8283-013 |
| D450-457             | 2058322101 | DIODE. 1N4148           |
| Q450                 | 2208222106 | TR PNP 2SA933           |
| Q451                 | 2238006103 | TR PNP KRA107M          |
| Q452-454             | 2208606105 | TR NPN KTC3198          |
| Q455                 | 2238006103 | TR PNP KRA107M          |
| Q456                 | 2238006104 | TR NPN KRC107M          |
| Q457                 | 2208606105 | TR NPN KTC3198          |
| Q458                 | 2238006104 | TR NPN KRC107M          |

| SYMBOL             | PART NO.    | DISCRIPTION             |
|--------------------|-------------|-------------------------|
| Q459-462           | 2208606105  | TR NPN KTC3198          |
| Q463               | 2238006104  | TR NPN KRC107M          |
| Q464               | 2208606105  | TR NPN KTC3198          |
| Q465               | 2238006104  | TR NPN KRC107M          |
| R450-463           | 3029750970  | RES MF 75 1/5W J        |
| R464-466           | 3029102970  | RES MF 1K 1/5W J        |
| R468               | 3029473970  | RES MF 47K 1/5W J       |
| R469-470           | 3029471970  | RES MF 470 1/5W J       |
| R471               | 3029184970  | RES MF 180K 1/5W J      |
| R472               | 3029473970  | RES MF 47K 1/5W J       |
| R473-474           | 3029471970  | RES MF 470 1/5W J       |
| R475               | 3029333970  | RES MF 33K 1/5W J       |
| R476               | 3029222970  | RES MF 2.2K 1/5W J      |
| R477               | 3029680970  | RES MF 68 1/5W J        |
| R478               | 3029124971  | RES MF 120K 1/5W J      |
| R479               | 3029473970  | RES MF 47K 1/5W J       |
| R480-481           | 3029471970  | RES MF 470 1/5W J       |
| R482               | 3029102970  | RES MF 1K 1/5W J        |
| R483-484           | 3029561970  | RES MF 560 1/5W J       |
| R485               | 3029101970  | RES MF 100 1/5W J       |
| R486               | 3029751970  | RES MF 750 1/5W J       |
| R487               | 3029102970  | RES MF 1K 1/5W J        |
| R488               | 3029563971  | RES MF 56K 1/5W J       |
| R489               | 3029184970  | RES MF 180K 1/5W J      |
| R490,              | 3029473970  | RES MF 47K 1/5W J       |
| R491-492           | 3029471970  | RES MF 470 1/5W J       |
| R493               | 3029103970  | RES MF 10K 1/5W J       |
| R494               | 3029102970  | RES MF 1K 1/5W J        |
| R495               | 3029103970  | RES MF 10K 1/5W J       |
| R496-500           | 3029102970  | RES MF 1K 1/5W J        |
| R501               | 3029124970  | RES MF 120K 1/5W J      |
| R506               | 3029103970  | RES MF 10K 1/5W J       |
| R507               | 3029560970  | RES MF 56 1/5W J        |
| U450-453           | 2168017141  | IC LC7824               |
| U454-455           | 2108499133  | VIDEO AMP MC14577       |
| DIN450             | 4438100720  | DIN JACK 1PIN, S-VHS    |
| DIN451.452         | 4438100520  | DIN JACK 3PIN, S-VHS    |
| INPUT PCB ASSEMBLY |             |                         |
|                    | 40020004000 | PCB INPUT B'd           |
| C309-310           | 3479347041  | CAP E SG 47uF/35V       |
| C323               | 3479310971  | CAP E SG 1uF/50V        |
| C324               | 3479347041  | CAP E SG 47uF/35V       |
| C325               | 3519101935  | CAP C AXIAL 100pF/50V   |
| C326-329           | 3479347041  | CAP E SG 47uF/25V       |
| C335               | 3479347041  | CAP E SG 47uF/25V       |
| C363-365           | 3479347041  | CAP E SG 47uF/25V       |
| C366               | 3479310971  | CAP E SG 1uF/50V        |
| C367               | 3479347041  | CAP E SG 47uF/25V       |
| C368               | 3519101935  | CAP C AXIAL 100pF/50V   |
| CL,CR301-302       | 3519101935  | CAP C AXIAL 100pF/50V   |
| CL,CR303           | 3479347971  | CAP E SG 4.7uF/50V      |
| CL,CR304           | 3679222120  | CAP MYLAR 0.0022uF/100V |
| CL,CR305           | 3679182120  | CAP MYLAR 0.0018uF/100V |
| CL,CR306           | 3679562120  | CAP MYLAR 0.0056uF/100V |
| CL,CR307           | 3479322871  | CAP E SG 0.22uF/50V     |
| CL,CR308           | 3679180120  | CAP MYLAR 0.0018uF/100V |
| CL,CR309           | 3479333041  | CAP E SG 33uF/35V       |
| CL,CR313-322       | 3519101935  | CAP C AXIAL 100pF/50V   |
| CL,CR330           | 3479347971  | CAP E SG 4.7uF/50V      |
| CL,CR331-332       | 3519101935  | CAP C AXIAL 100pF/50V   |
| CL,CR333-334       | 3479347971  | CAP E SG 4.7uF/50V      |
| CL,CR335-336       | 3519101935  | CAP C AXIAL 100pF/50V   |
| CL,CR350-361       | 3519101935  | CAP C AXIAL 100pF/50V   |

| SYMBOL             | PART NO.   | DISCRIPTION                     |
|--------------------|------------|---------------------------------|
| CL,CR362           | 3479347971 | CAP E SG 4.7uF/50V              |
| CP301              | 4428863208 | CNT Housing 20-8283-0812-00-000 |
| CP302              | 4428863211 | CNT Housing 20-8283-1112-00-000 |
| CP351              | 4428863209 | CNT Housing 20-8283-0912-00-000 |
| D301               | 2058322101 | DIODE 1N4148                    |
| D351               | 2058322101 | DIODE 1N4148                    |
| LL,LR301           | 2648647082 | INDUCTOR 47uH                   |
| R309-310           | 3029221970 | RES MF 220R 1/5W J              |
| R316-317           | 3029221970 | RES MF 220R 1/5W J              |
| R318               | 3029104970 | RES MF 100K 1/5W J              |
| R319-321           | 3029102970 | RES MF 1K 1/5W J                |
| R322-325           | 3029221970 | RES MF 220R 1/5W J              |
| R356-359           | 3029332970 | RES MF 3.3K 1/5W J              |
| R360               | 3029104970 | RES MF 100K 1/5W J              |
| R361               | 3029221970 | RES MF 220R 1/5W J              |
| R362-364           | 3029102970 | RES MF 1K 1/5W J                |
| R365               | 3029221970 | RES MF 220R 1/5W J              |
| RL,RR301           | 3029102970 | RES MF 1K 1/5W J                |
| RL,RR302-303       | 3029913970 | RES MF 91K 1/5W J               |
| RL,RR304           | 3029564970 | RES MF 560K 1/5W J              |
| RL,RR305           | 3029433970 | RES MF 43K 1/5W J               |
| RL,RR306           | 3029821970 | RES MF 820 1/5W J               |
| RL,RR307           | 3029561970 | RES MF 560 1/5W J               |
| RL,RR308           | 3029104970 | RES MF 100K 1/5W J              |
| RL,RR311-315       | 3029102970 | RES MF 1K 1/5W J                |
| RL,RR326,330-331   | 3029102970 | RES MF 1K 1/5W J                |
| RL,RR327           | 3029104970 | RES MF 100K 1/5W J              |
| RL,RR328           | 3029103970 | RES MF 10K 1/5W J               |
| RL,RR329           | 3029104970 | RES MF 100K 1/5W J              |
| RL,RR332           | 3029104970 | RES MF 100K 1/5W J              |
| RL,RR333           | 3029103970 | RES MF 10K 1/5W J               |
| RL,RR334           | 3029104970 | RES MF 100K 1/5W J              |
| RL,RR335           | 3029102970 | RES MF 1K 1/5W J                |
| RL,RR350-355       | 3029102970 | RES MF 1K 1/5W J                |
| RL,RR366           | 3029104970 | RES MF 100K 1/5W J              |
| U301               | 2168220135 | IC OPAMP NJM5532                |
| U302               | 2168017132 | IC ANALOG FUNCTION LC7821       |
| U303-304           | 2168220135 | IC OPAMP NJM5532                |
| U351               | 2168017132 | IC ANALOG FUNCTION LC7821       |
| U352               | 2138001117 | IC MULTIFLEX GD4053             |
| RCA303,351,352     | 4438100320 | RCA JACK 6PIN(WWW,RRR)          |
| RCA302             | 4438100220 | RCA JACK 4PIN(WW,RR)            |
| RCA301             | 4438100120 | RCA JACK 2PIN(W,R)              |
| TUNER PCB ASSEMBLY |            |                                 |
|                    | 4002000300 | PCB TUNER 247*197               |
| ANT1               | 4408000110 | ANT TERMINAL(SCREW)             |
| ANT1               | 4408000210 | ANT TERMINAL(SCREW)             |
| C701               | 3519223935 | CAP. AXIAL. 0.022UF/50          |
| C702               | 3519473935 | CAP. AXIAL. 0.047UF/50          |
| C703               | 3479333971 | CAP. E. SG 3.3UF/50             |
| C704               | 3519103935 | CAP. AXIAL. 0.01UF/50           |
| C705               | 3479347021 | CAP. E. SG 47UF/16              |
| C706               | 3519223935 | CAP. AXIAL. 0.022UF/50          |
| C707               | 3519103935 | CAP. AXIAL. 0.01UF/50           |
| C708-709           | 3528180210 | CAP. DISK. 18P-R(CH)            |
| C710               | 3519101935 | CAP. AXIAL. 100PF/50            |
| C711               | 3479347021 | CAP. E. SG 47UF/16              |
| C712-713           | 3519223935 | CAP. AXIAL. 0.022UF/50          |
| C714               | 3479310121 | CAP. E. SG100UF/16              |
| C715               | 3615471110 | CAP. POLY 470P-P                |
| C716               | 3528150210 | CAP. DISK. 15P-R(CH)            |
| C717-718           | 3519223935 | CAP. AXIAL. 0.022UF/50          |
| C720               | 3479310041 | CAP. E. SG 10UF/35              |

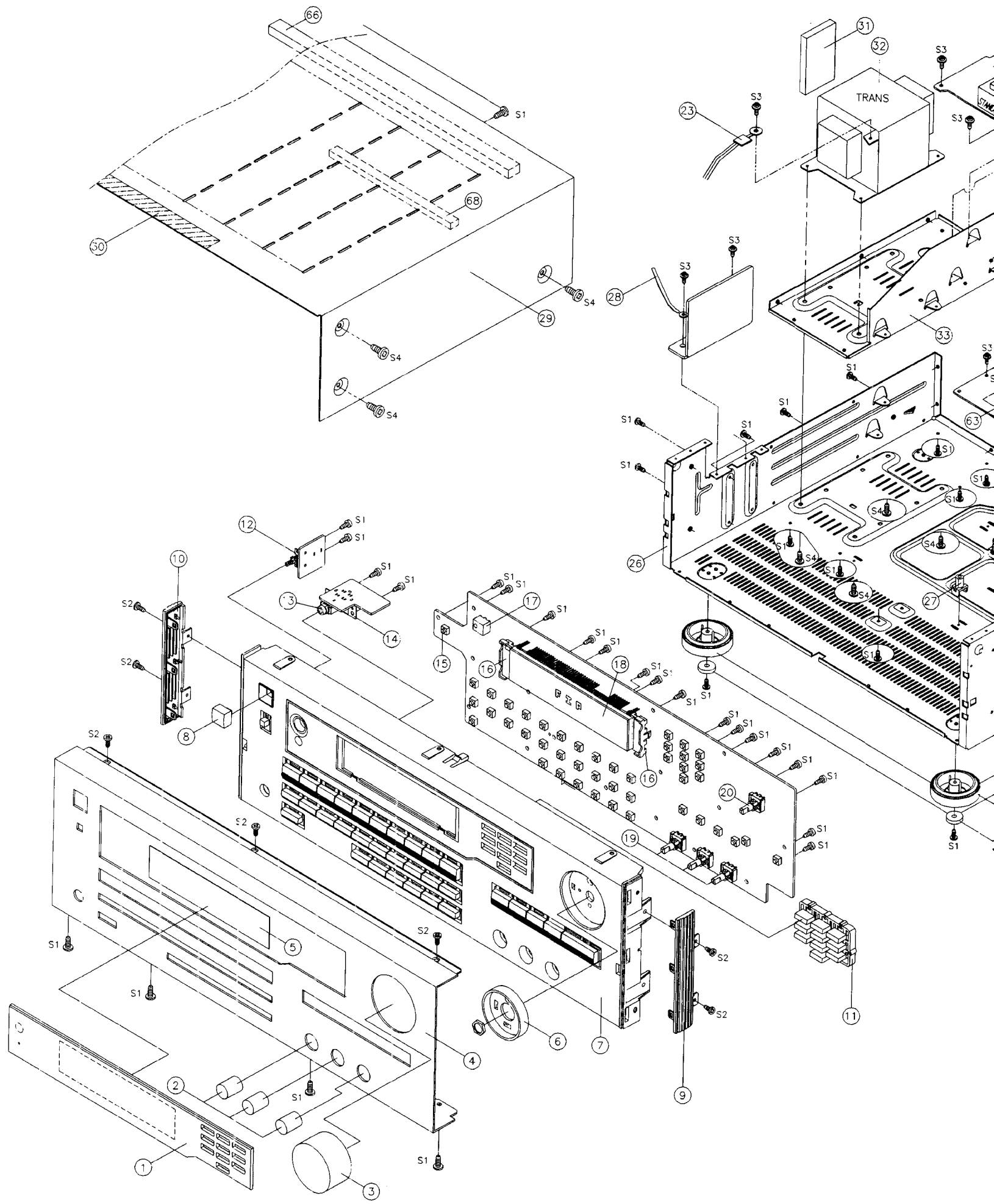
| SYMBOL    | PART NO.     | DISCRIPTION                     |
|-----------|--------------|---------------------------------|
| C721-722  | 3519223935   | CAP. AXIAL. 0.022UF/50          |
| C723      | 3519103935   | CAP. AXIAL. 0.01UF/50           |
| C724-725  | 3519223935   | CAP. AXIAL. 0.022UF/50          |
| C726      | 3479347971   | CAP. E. SG 4.7UF/50             |
| C727      | 3479333971   | CAP. E. SG 3.3UF/50             |
| C728      | 3479347971   | CAP. E. SG 4.7UF/50             |
| C729      | 3519223935   | CAP. AXIAL. 0.022UF/50          |
| C730      | 3679223120   | CAP. MALAY. 0.022UF/100         |
| C731      | 3679339120   | CAP. MALAY. 0.0033UF/100        |
| C731      | 3679332120   | CAP. MALAY. 0.0033UF/100        |
| C732      | 3679393120   | CAP. MALAY. 0.039UF/100         |
| C733      | 3479310971   | CAP. E. SG 1UF/50               |
| C734      | 3519223935   | CAP. AXIAL. 0.022UF/50          |
| C735      | 3479310121   | CAP. E. SG100UF/16              |
| C736      | 3519331935   | CAP. AXIAL. 330PF/50            |
| C736      | 3519101935   | CAP. AXIAL. 100PF/50            |
| C737      | 3579820130   | CAP. RADIAL. 82P                |
| C738      | 3579101130   | CAP. RADIAL. 100P               |
| C739      | 3479310041   | CAP. E. SG 10UF/35              |
| C740      | 3519223935   | CAP. AXIAL. 0.022UF/50          |
| C741      | 3479347971   | CAP. E. SG 4.7UF/50             |
| C742      | 3519473935   | CAP. AXIAL. 0.047UF/50          |
| C743      | 3519681935   | CAP. AXIAL. 680PF/50            |
| C744      | 3479310121   | CAP. E. SG100UF/16              |
| C745      | 3479310971   | CAP. E. SG 1UF/50               |
| C746      | 3479322871   | CAP. E. SG 0.22UF/50            |
| C747      | 3479310971   | CAP. E. SG 1UF/50               |
| C748      | 3579223530   | CAP. DISK. 22N-R                |
| C749      | 3479310041   | CAP. E. SG 10UF/35              |
| C753      | 3479310041   | CAP. E. SG 10UF/35              |
| C754      | 3519271935   | CAP. AXIAL. 270PF/50            |
| C755-756  | 3479310041   | CAP. E. SG 10UF/35              |
| C757      | 3519104935   | CAP. AXIAL. 0.1UF/50            |
| C758-759  | 3579270130   | CAP. RADIAL. 27P                |
| CB701     | 4428 8632 10 | Cnt Housing 20-8283-1012-00-000 |
| CB701     | 4428 8632 15 | Cnt Housing 20-8283-1512-00-000 |
| CF701-703 | 3908011071   | FM IF FILTER SFE10.7MA5         |
| CF701-703 | 3908011011   | FM IF FILTER SFE10.7MS3GH       |
| CF704     | 3908001080   | AM IF FILTER CFM2-450BL         |
| CL,CR750  | 3519561935   | CAP. AXIAL. 560PF/50            |
| CL,CR750  | 3519221935   | CAP. AXIAL. 220PF/50            |
| CL,CR751  | 3479310041   | CAP. E. SG 10UF/35              |
| CL,CR752  | 3579680530   | CAP. DISK. 68P-R                |
| CL,CR752  | 3579100530   | CAP. DISK. 10P-R                |
| D702      | 2058322101   | DIODE 1N4148                    |
| D703      | 2258599519   | DIODE ZENER UZ5V1               |
| FET1      | 3928001010   | FRONT-END FTA4-575H             |
| FET1      | 3928101870   | FRONT-END FTA4-460H             |
| U701      | 2138017136   | IC LM7001                       |
| U702      | 2168017128   | IC LA1266                       |
| U703      | 2168417120   | IC LA3401                       |
| U704      | 2169202101   | IC, C42BU1920F                  |
| L701      | 2648601430   | COIL 20.8mH                     |
| Q701-702  | 2208606105   | TR NPN KTC3198BL                |
| Q703      | 2208406103   | TR NPN KTC3194                  |
| Q704-706  | 2238006103   | TR PNP KRA107M                  |
| Q707      | 2208606105   | TR NPN KTC3198BL                |
| Q709      | 2238006103   | TR PNP KRA107M                  |
| QL,QR708  | 2238422100   | TR NPN DTC323TS                 |
| R701      | 3029104970   | RES. MF 100K 1/5W J             |
| R702      | 3029562970   | RES. MF 5.6K 1/5W J             |
| R703      | 3029623970   | RES. MF 62K 1/5W J              |
| R704      | 3029104970   | RES. MF 100K 1/5W J             |
| R705      | 3029471970   | RES. MF 470 1/5W J              |
| R706      | 3029104970   | RES. MF 100K 1/5W J             |
| R707      | 3029103970   | RES. MF 10K 1/5W J              |

## Parts List

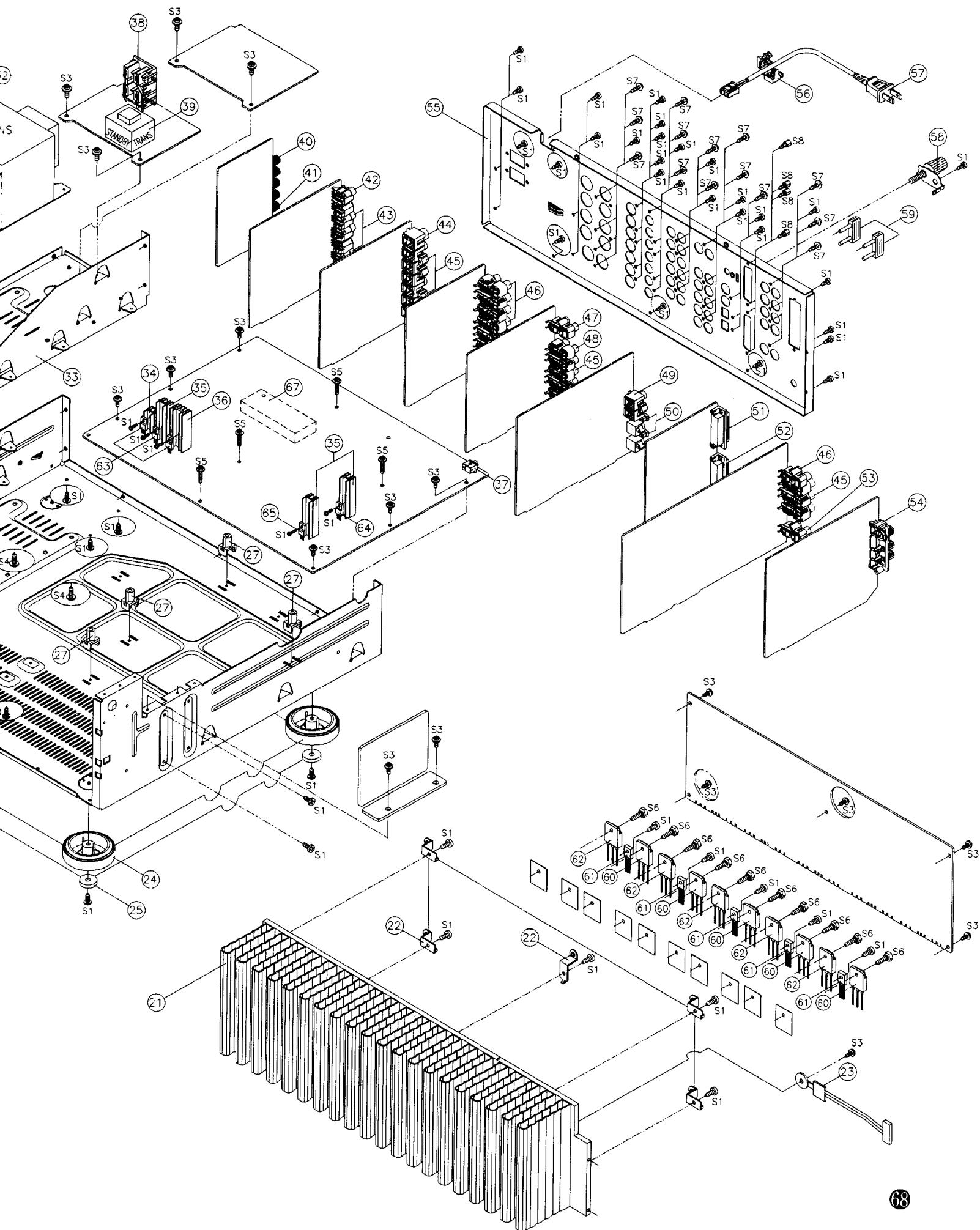
| SYMBOL    | PART NO.   | DISCRIPTION                  |
|-----------|------------|------------------------------|
| R708      | 3029271970 | RES. MF 270 1/5W J           |
| R709      | 3029561970 | RES. MF 560 1/5W J           |
| R710      | 3029102970 | RES. MF 1K 1/5W J            |
| R711      | 3029181970 | RES. MF 180 1/5W J           |
| R712      | 3029561970 | RES. MF 560 1/5W J           |
| R713      | 3029332970 | RES. MF 3.3K 1/5W J          |
| R714      | 3029561970 | RES. MF 560 1/5W J           |
| R715      | 3029471970 | RES. MF 470 1/5W J           |
| R716      | 3029101970 | RES. MF 100 1/5W J           |
| R717-719  | 3029102970 | RES. MF 1K 1/5W J            |
| R720      | 3029331970 | RES. MF 330 1/5W J           |
| R721      | 3029271970 | RES. MF 270 1/5W J           |
| R722      | 3029471970 | RES. MF 470 1/5W J           |
| R724      | 3029472970 | RES. MF 4.7K 1/5W J          |
| R725      | 3029683970 | RES. MF 68K 1/5W J           |
| R726      | 3029223970 | RES. MF 22K 1/5W J           |
| R726      | 3029473970 | RES. MF 47K 1/5W J           |
| R727      | 3029103970 | RES. MF 10K 1/5W J           |
| R728      | 3029223970 | RES. MF 22K 1/5W J           |
| R729      | 3029229970 | RES. MF 22 1/5W J            |
| R730      | 3029472970 | RES. MF 4.7K 1/5W J          |
| R731      | 3029103970 | RES. MF 10K 1/5W J           |
| R731      | 3029182970 | RES. MF 1K8 1/5W J           |
| R732      | 3029562970 | RES. MF 5.6K 1/5W J          |
| R733      | 3029332970 | RES. MF 3.3K 1/5W J          |
| R734      | 3029101970 | RES. MF 100 1/5W J           |
| R735      | 3029182970 | RES. MF 1K8 1/5W J           |
| R736      | 3029473970 | RES. MF 47K 1/5W J           |
| R737      | 3029220970 | RES. MF 22 1/5W J            |
| R738      | 3029102970 | RES. MF 1K 1/5W J            |
| R739      | 3029101970 | RES. MF 100 1/5W J           |
| R740      | 3029473970 | RES. MF 47K 1/5W J           |
| R741      | 3029223970 | RES. MF 22K 1/5W J           |
| R742      | 3029332970 | RES. MF 3.3K 1/5W J          |
| R743      | 3029223970 | RES. MF 22K 1/5W J           |
| R744      | 3029473970 | RES. MF 47K 1/5W J           |
| R750      | 3029681970 | RES. MF 680 1/5W J           |
| R756      | 3029225970 | RES. MF 2.2M 1/5W J          |
| RL,RR746  | 3029124970 | RES. MF 120K 1/5W J          |
| RL,RR747  | 3029184970 | RES. MF 180K 1/5W J          |
| RL,RR747  | 3029274970 | RES. MF 270K 1/5W J          |
| RL,RR748  | 3029272970 | RES. MF 2.7K 1/5W J          |
| RL,RR749  | 3029332970 | RES. MF 3.3K 1/5W J          |
| RL,RR749  | 3029332970 | RES. MF 3.3K 1/5W J          |
| RL,RR757  | 3029152970 | RES. MF 1.5K 1/5W J          |
| T701      | 2608201120 | COIL AM-ANT1 M72N-K5643A     |
| T702      | 2638201150 | COIL AM-OSC1 A7MC-K111027X2  |
| T703      | 2848001250 | COIL AM-IFT1 7BR-K111027X2   |
| T704      | 2828000100 | COIL FM-DET-A1               |
| T705      | 2828000110 | COIL FM-DET-B1 292BCA-K5713  |
| TC701     | 3838001000 | TRIMMER 10P                  |
| TL,TR706  | 2658001050 | COIL MPX LPF 253AGG-K5001-KR |
| VD701-702 | 2258817101 | DIODE VARACTOR SVC321SPA-C   |
| VR701     | 3248047253 | VR,SEMI 4.7K(B)-H            |
| VR702     | 3248047353 | VR,SEMI 47K(B)-H             |
| VR703     | 3248022453 | VR,SEMI 220K(B)-H            |
| X701      | 3908101030 | X-TAL 7.2MHZ                 |
| X702      | 3938131600 | RESONATOR CSB-456F15         |
| X703      | 3908111690 | X-TAL 4.332MHZ               |
| ZD701     | 2258599519 | DIODE ZENER UZ5V1            |

| SYMBOL | PART NO. | DISCRIPTION |
|--------|----------|-------------|
|        |          |             |

# EXPLODE



# LOADED VIEW



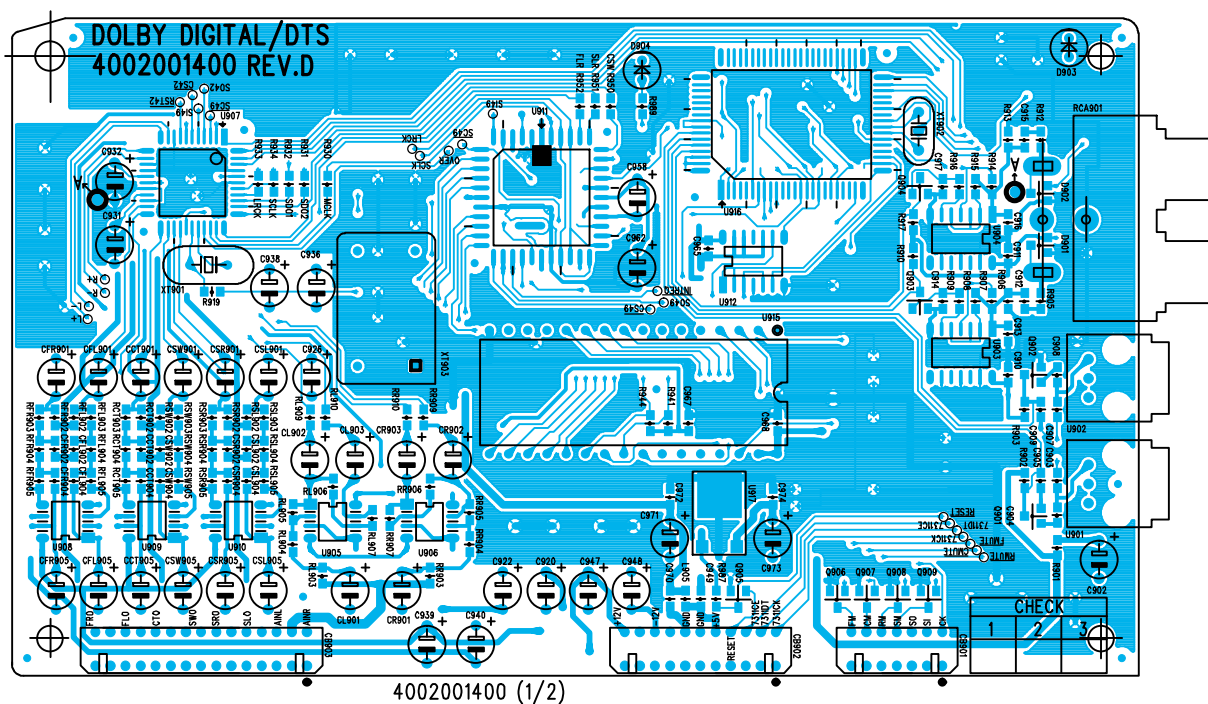
# Parts List

| NO. | PARTS NO.    | DESCRIPTION                   |
|-----|--------------|-------------------------------|
| 1   | 8553000111   | WINDOW DISPLAY, ACRYL 3.0t    |
| 2   | 8645000211   | KNOB ROTARY, AL A6063S-T5     |
| 3   | 8643000211   | KNOB MAIN, AL A6063S-T5       |
| 4   | 8602000111   | FRONT PANEL, AL A6063S-T5     |
| 5   | 8535000110   | FILTER, ACRYL 1.0t            |
| 6   | 8545000311   | BEZEL RING, ABS BLACK         |
| 7   | 8521000110   | FRONT BODY, ABS BLACK         |
| 8   | 8545000110   | POWER BUTTON, ABS BLACK       |
| 9   | 8523000120   | SIDE CAP(RIGHT), ABS BLACK    |
| 10  | 8523000110   | SIDE CAP(LEFT), ABS BLACK     |
| 11  | 8543000110   | BUTTON 10KEY, ABS BLACK       |
| 12  | 4628000110   | POWER SWITCH, TV-5            |
| 13  | 4438000210   | PHONE JACK 9P(GOLD)           |
| 14  | 6505000210   | PHONE BRACKET 0.6t            |
| 15  | 4658000110   | TACT SWITCH                   |
| 16  | 6515000110   | HOLDER FIP, ABS BLACK         |
| 17  | 2408000180   | REMOTE SENSOR                 |
| 18  | 2328000302   | FIP                           |
| 19  | 3218000210   | VR ROTARY, ENCODER            |
| 20  | 3218000110   | VR MAIN, ENCODER              |
| 21  | 7502000110   | POWER HEAT SINK, AL A6063S-T5 |
| 22  | 6505000110   | BRACKET HEAT SINK, SECC1.0t   |
| 23  | 052438000183 | ASS'Y POSISTOR                |
| 24  | 6133100110   | FOOT, ABS BLACK               |
| 25  | 6715000110   | BUMPON                        |
| 26  | 6121600110   | MAIN CHASSIS, SECC1.2t        |
| 27  | 6515000210   | SPACER PCB, ABS BLACK         |
| 28  | 6528000210   | CLAMP WIRE                    |
| 29  | 6122000110   | TOP COVER, VCM 0.95t          |
| 30  | 6715000210   | SPONGE, 260X20X1t             |
| 31  | 6715000310   | SPONGE, 50X40X5t              |
| 32  | 2828000017   | POWER TRANS                   |
| 33  | 6122600110   | FRAME T/F, SECC 1.0t          |
| 34  | 7505000110   | REG TR HEAT SINK(15X30), AL   |
| 35  | 7505000130   | REG TR HEAT SINK(15X60), AL   |
| 36  | 7505000230   | REG TR HEAT SINK(24X60), AL   |
| 37  | 4438300110   | JACK RCA(MINI)                |
| 38  | 4448000110   | AC OUTLET                     |
| 39  | 2828000037   | STANDBY TRANS                 |
| 40  | 4408100110   | SPEAKER TERMINAL 8P           |
| 41  | 4408100210   | SPEAKER TERMINAL 2P           |
| 42  | 4438500110   | RCA JACK 1P, S-VHS            |
| 43  | 4438500210   | RCA JACK 3P, S-VHS            |
| 44  | 4438100720   | RCA JACK 1P(Y), VIDEO         |
| 45  | 4438100520   | RCA JACK 3P(Y), VIDEO         |
| 46  | 4438100320   | RCA JACK 6P(WWW,RRR)          |
| 47  | 4438100120   | RCA JACK 2P(W,R)              |
| 48  | 4438100220   | RCA JACK 4P(WW,RR)            |
| 49  | 4438101020   | RCA JACK 2P(B,B)              |
| 50  | 2408218001   | OPTIC RCVR                    |
| 51  | 4438600120   | DB 25 CONNECTOR(MAIL)         |

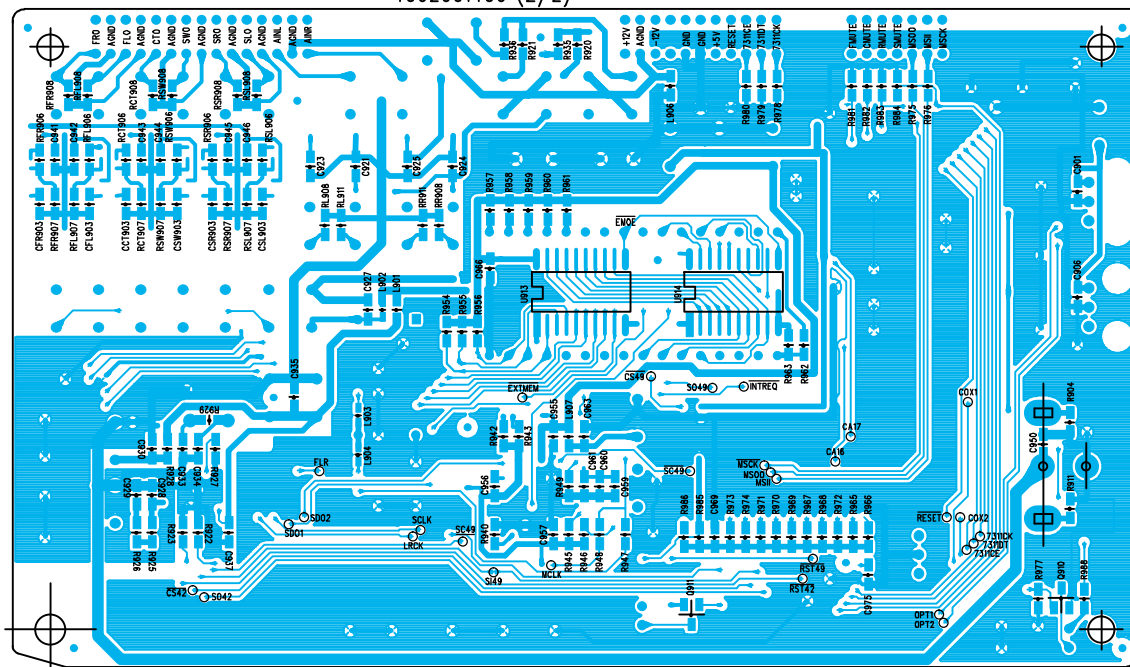
| NO. | PARTS NO.  | DESCRIPTION                |
|-----|------------|----------------------------|
| 52  | 4438600110 | DB 25 CONNECTOR(F-MAIL)    |
| 53  | 4438100920 | RCA JACK 2P(B,B SUBWOOFER) |
| 54  | 4408000110 | ANT TERMINAL(SCREW)        |
| 55  | 6102000111 | BACK CHASSIS, SECC1.0t     |
| 56  | 6518000110 | CORD STOPPER,NYLON66 BLACK |
| 57  | 4308000110 | CORD AC POWER              |
| 58  | 4408200110 | TERMINAL G.N.D             |
| 59  | 4428000110 | JUMPER PLUG                |
| 60  | 2028416108 | POWER TR A1386A            |
| 61  | 2008622110 | REG TR C4137               |
| 62  | 2028416122 | POWER TR C3519A            |
| 63  | 2168602105 | REG TR KIA 7805P 8E        |
| 64  | 2168602109 | REG TR KIA 7815P 8E        |
| 65  | 2168602114 | REG TR KIA 7915P 8E        |
| 66  | 6715000420 | SPONGE, 230x15x9t          |
| 67  | 6715000510 | SPONGE, 90x40x12t          |
| 68  | 6715000430 | SPONGE, 120x6x9t           |
|     |            | SCREW                      |
| S1  | 8109430083 | SCREW #B BTT 3X8B          |
| S2  | 8129430083 | SCREW #2FTC 3X8B           |
| S3  | 8159430061 | SCREW #B WPTT 3X6Y         |
| S4  | 8159440083 | SCREW #WSAM 4X8B           |
| S5  | 8159430181 | SCREW #B WPTT 3X18Y        |
| S6  | 8179430121 | SCREW HEAT SINK            |
| S7  | 8199430103 | SCREW G.N.D                |
| S8  | 8199930082 | DB25 SCREW                 |
|     |            | PACKING & LABELS           |
|     | 9007000110 | INSTRUCTION MANUAL         |
|     | 9017000010 | SERVICE MANUAL             |
|     | 2608207360 | AM ANT LOOP                |
|     | 4348000110 | FM ANT                     |
|     | 9087000010 | WARRANTY CARD              |
|     | 4428400110 | MATCHING TRANS             |
|     | 9705000110 | POLY ABG                   |
|     | 9057000010 | FUSE LABEL                 |
|     | 9057000020 | GRAPHIC LABEL              |
|     | 9722000110 | CUSHION POLY               |
|     | 9605000111 | BOX CARTON(INNER)          |
|     | 9625000111 | BOX CARTON(OUT)            |
|     | 9715000110 | FILM SOFT PE               |

# PCB Assembly (DIGITAL BOARD)

TOP SIDE



4002001400 (2/2)

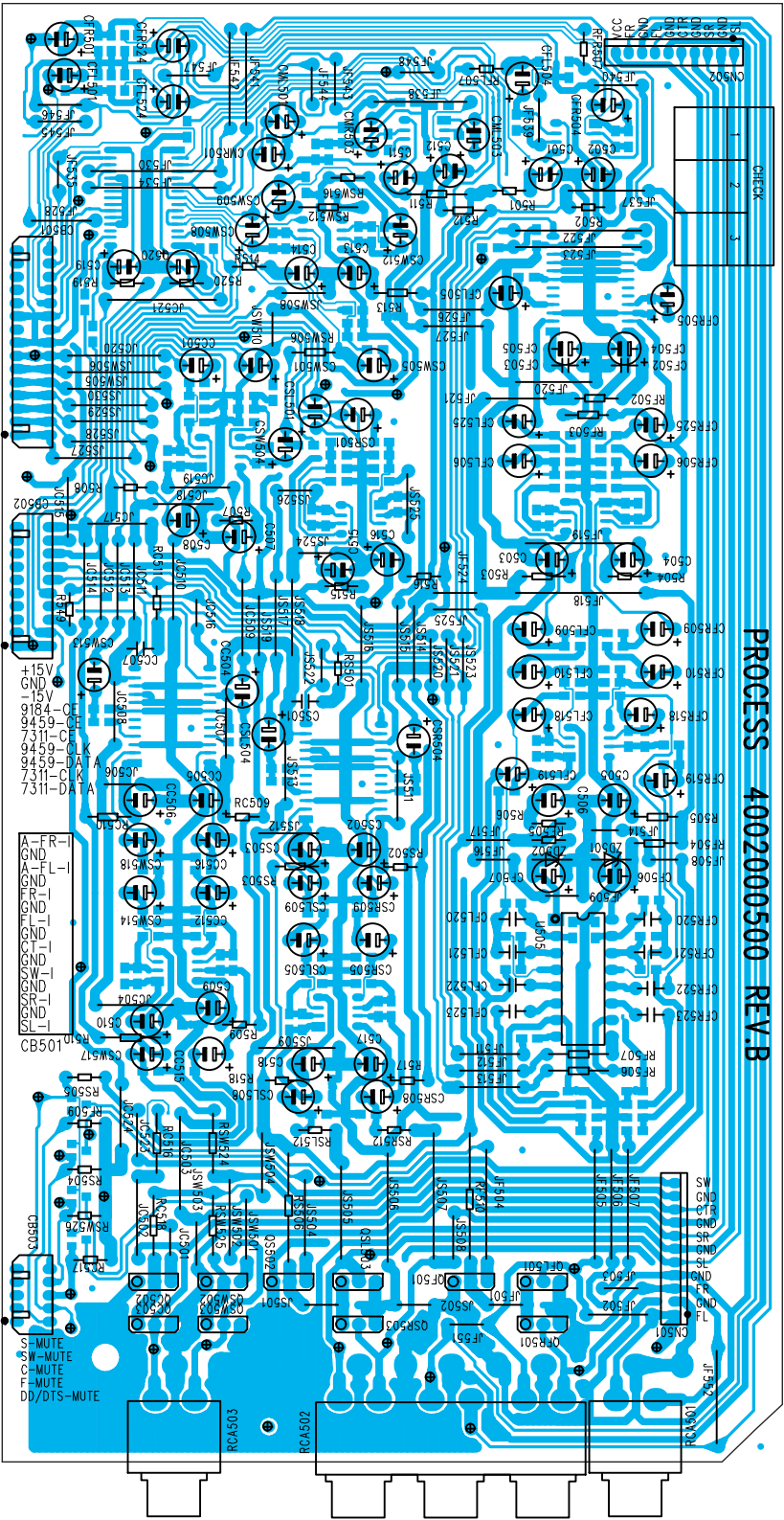


BOTTOM SIDE

PCB Assembly

4002000500(1/2)

PROCESSOR

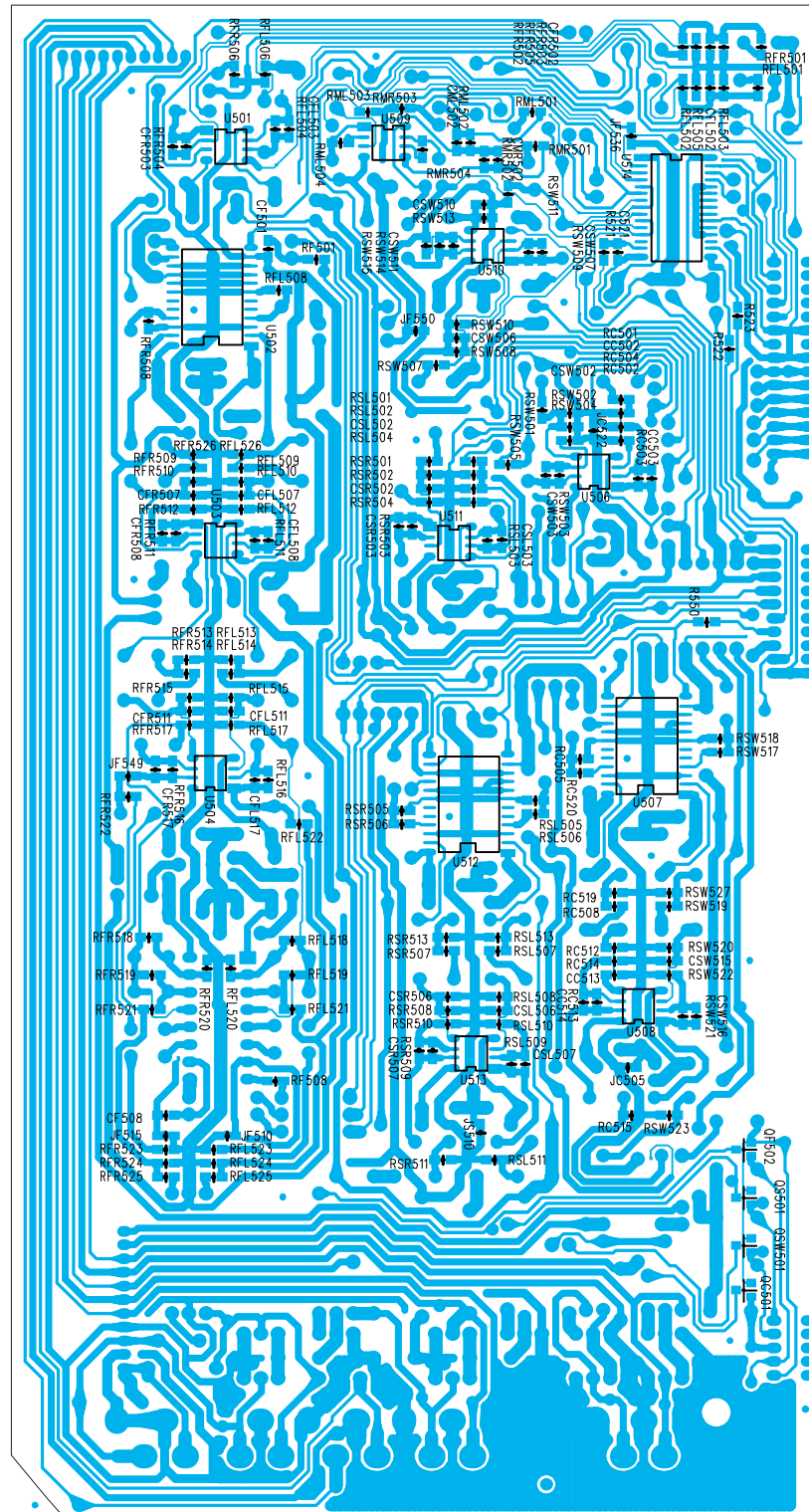


TOP SIDE VIEW

# PCB Assembly

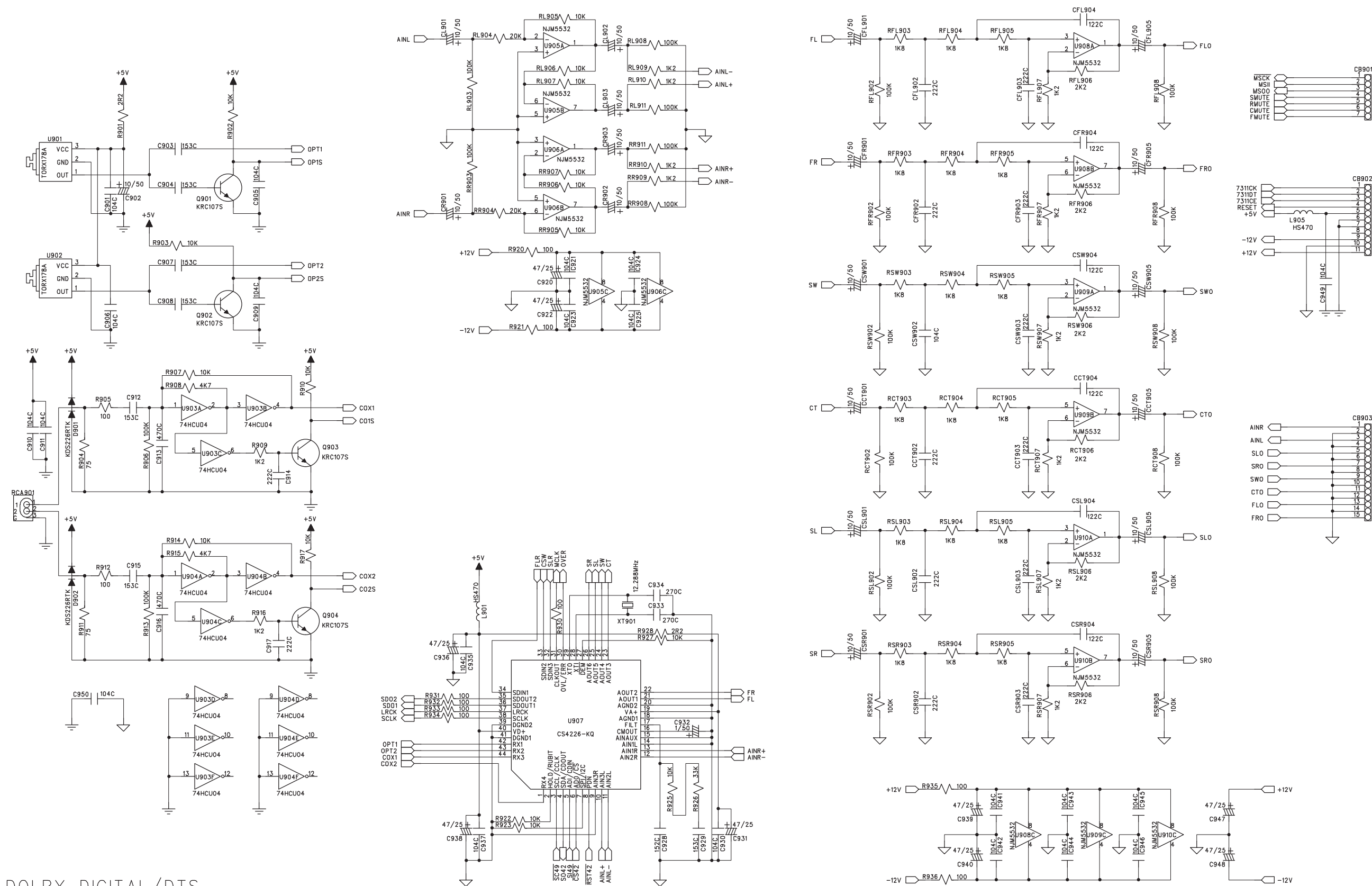
4002000500(2/2)

## PROCESSOR



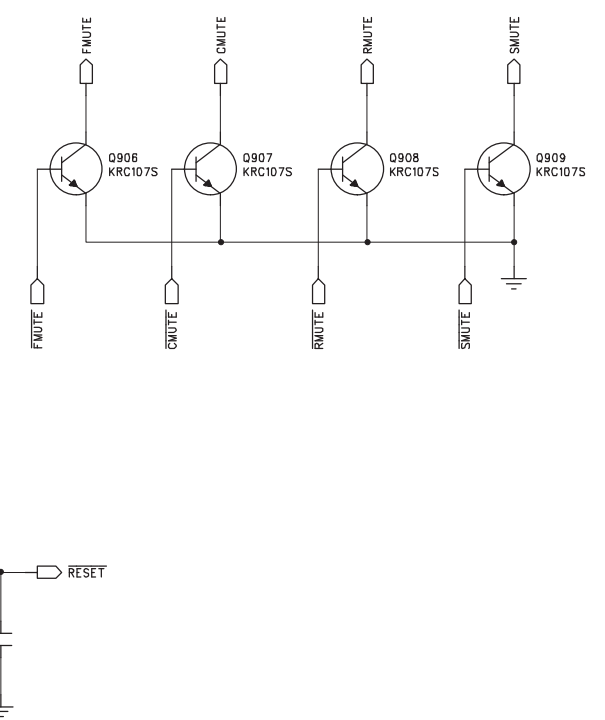
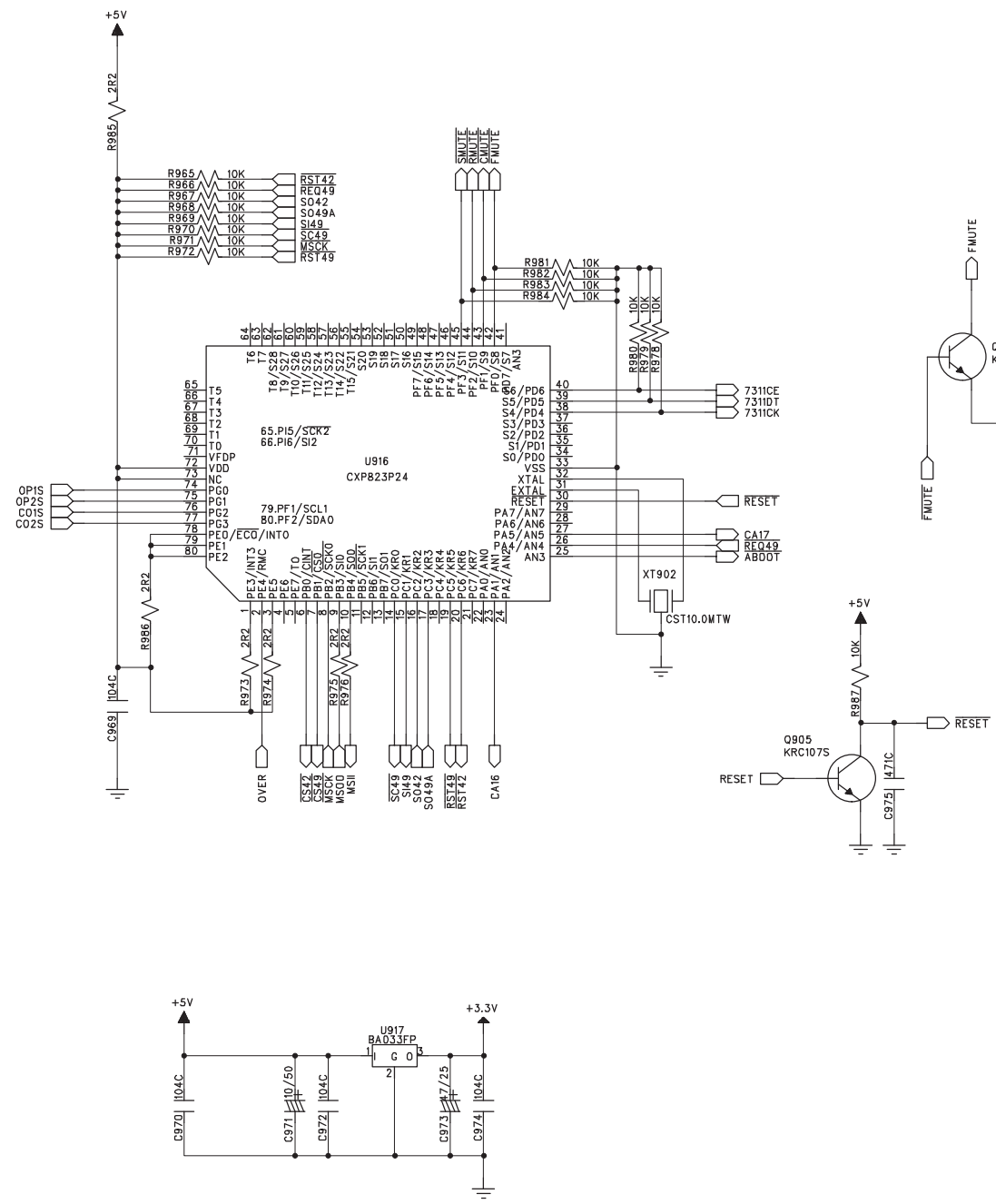
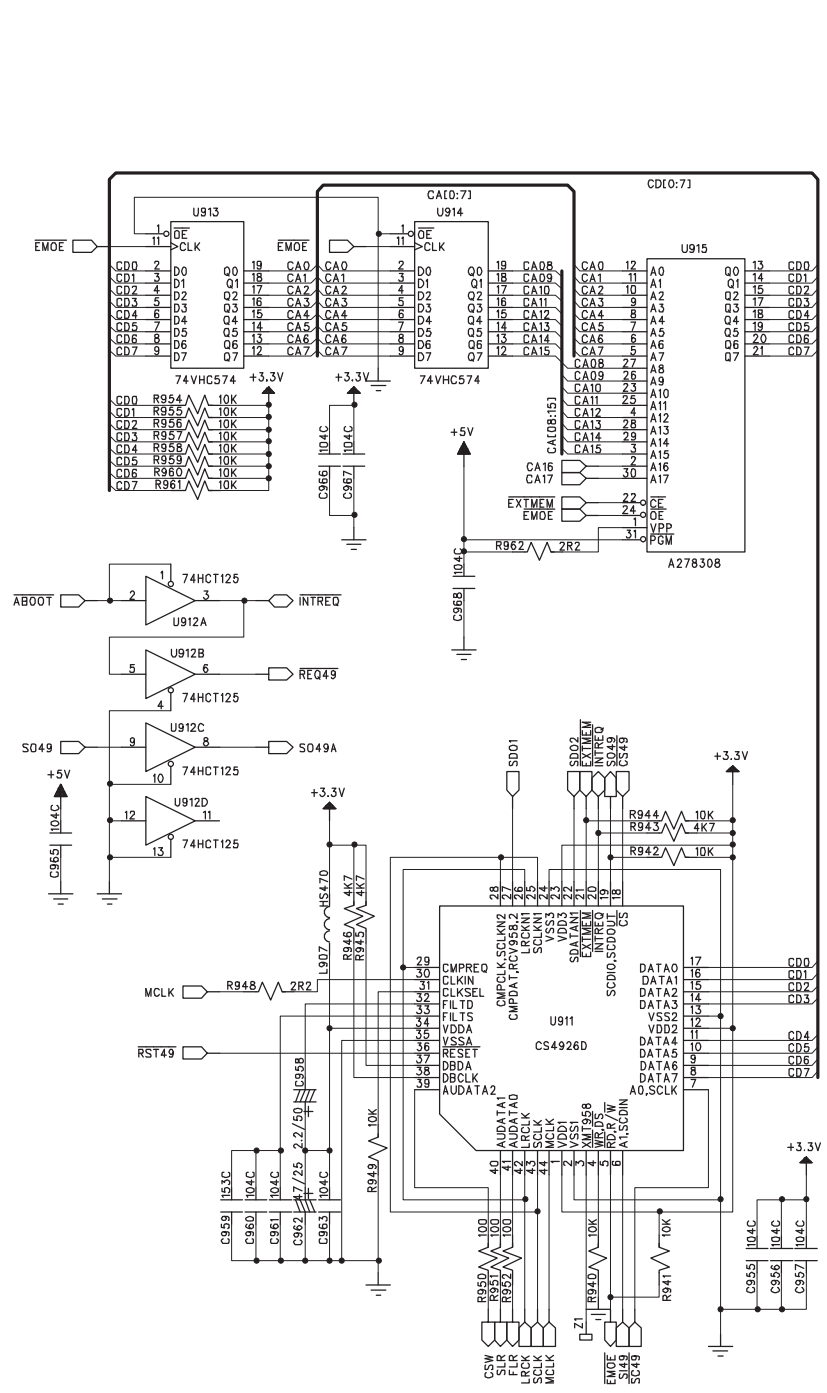
BOTTOM VIEW

# Schematic Diagram



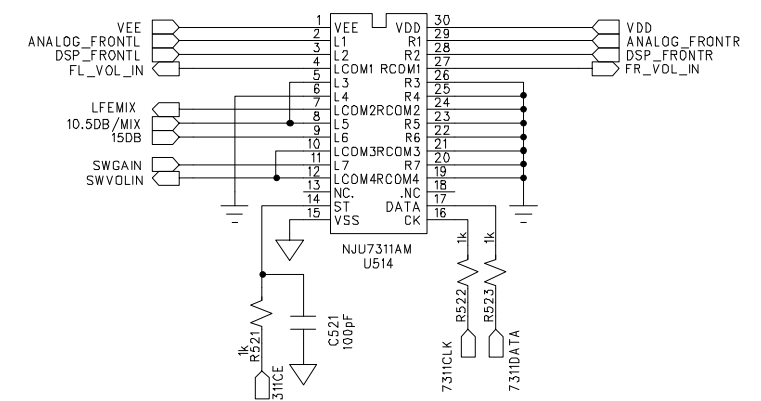
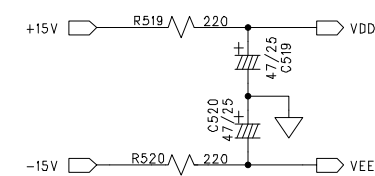
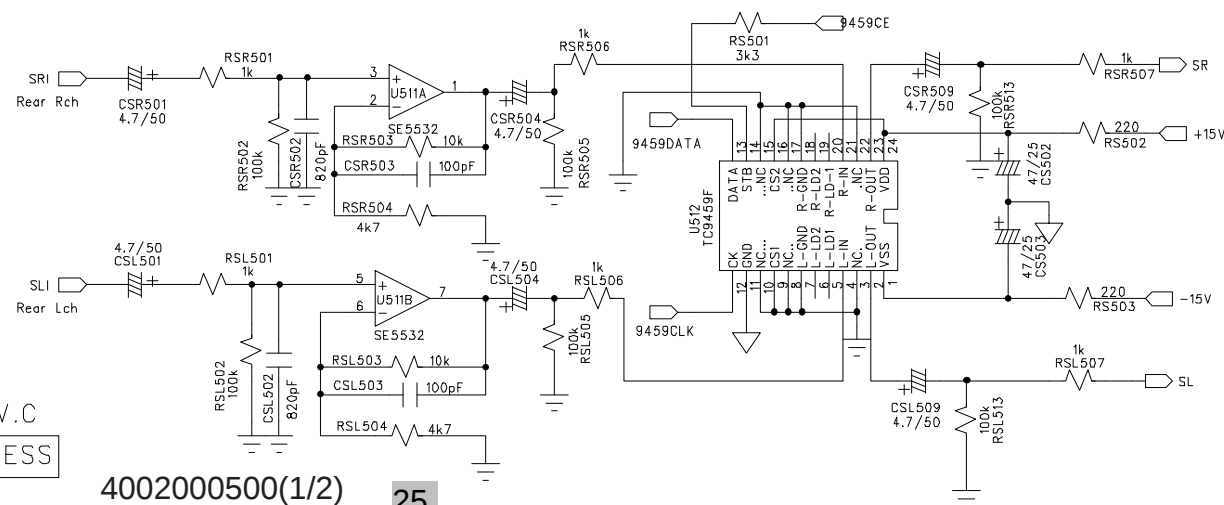
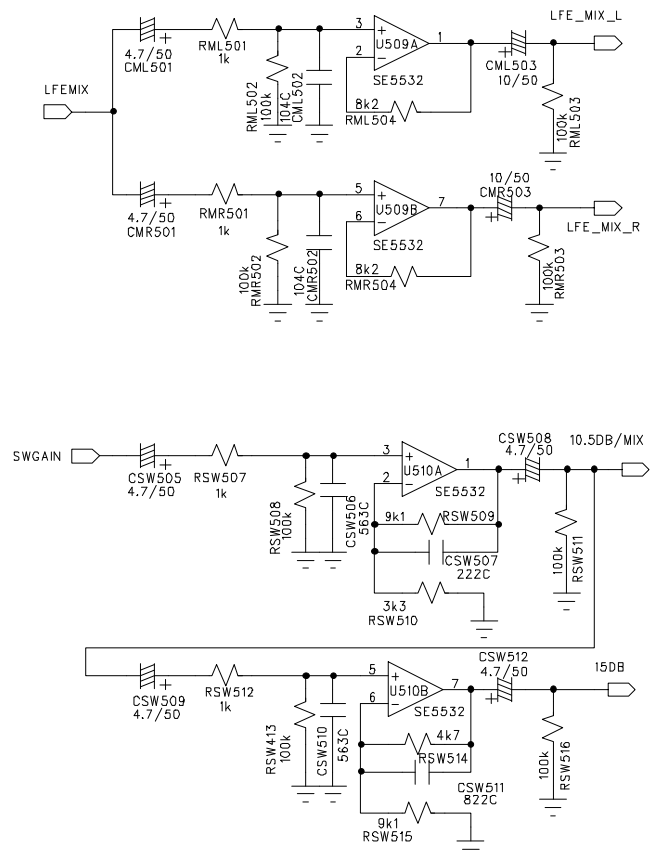
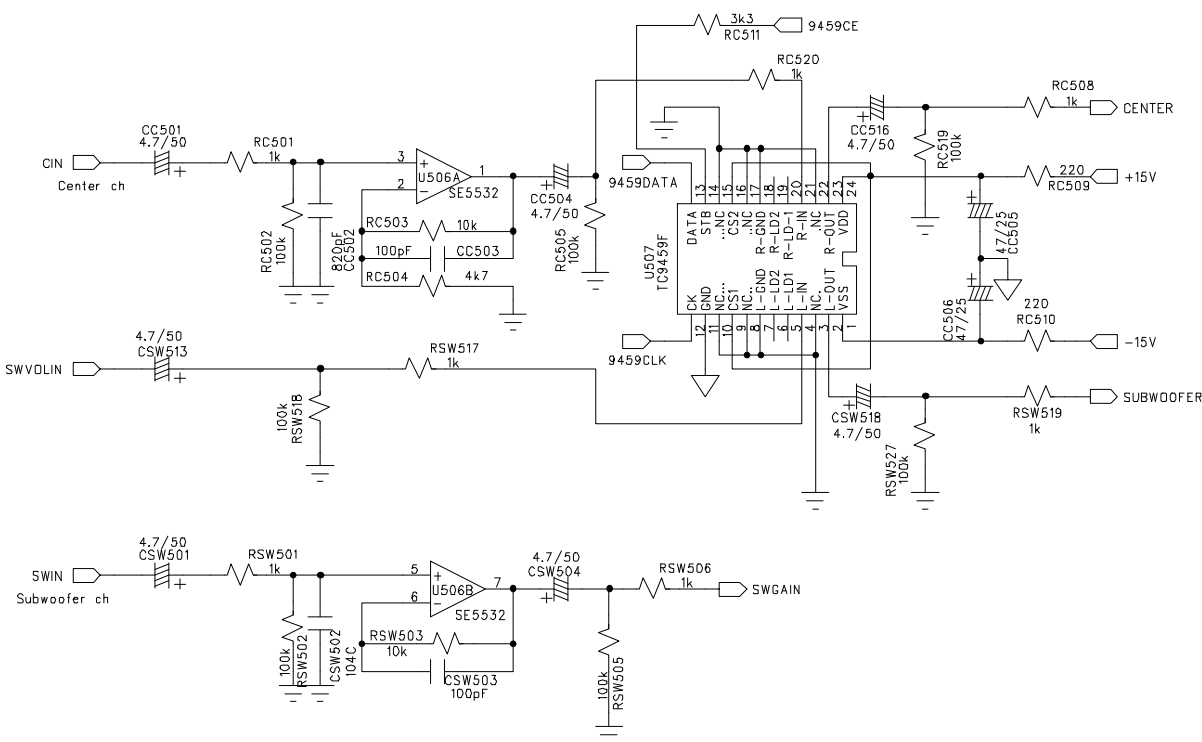
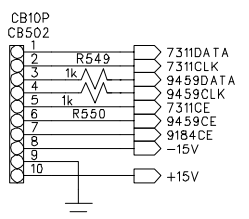
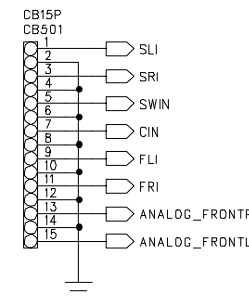
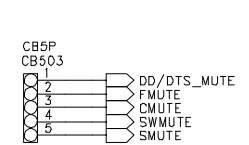
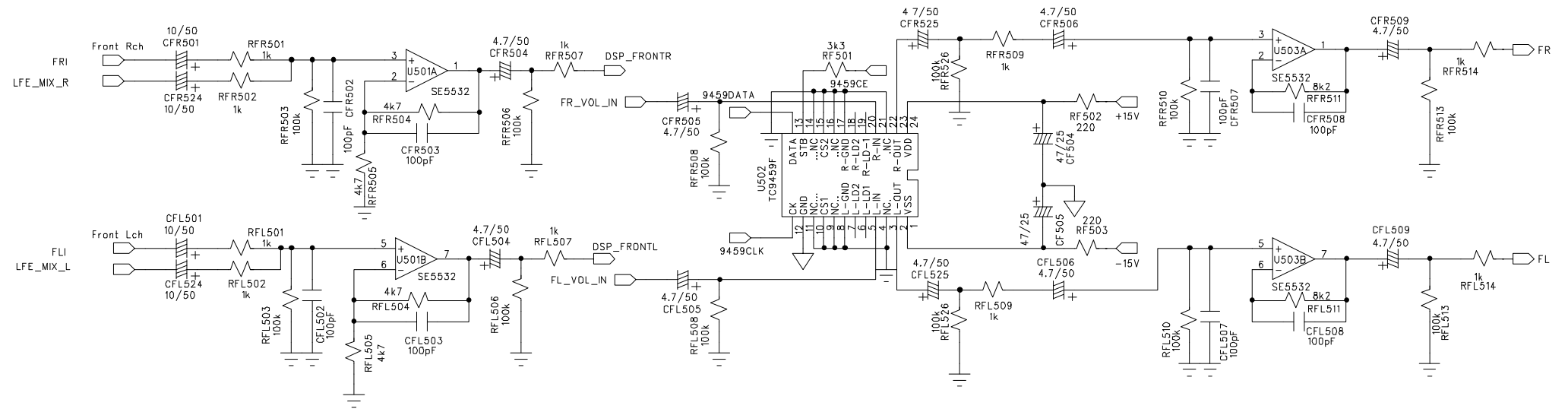
DOLBY DIGITAL/DTS  
4002001400 REV.D (1/2)

# Schematic Diagram



DOLBY DIGITAL/DTS  
4002001400 REV.D (2/2)

## Schematic Diagram



REV.C

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PROCESS

4002000500(1/2)

25

### Schematic Diagram

