

AV RECEIVER

RX-V2092

SERVICE MANUAL

RX-V2092

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

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YAMAHA
YAMAHA CORPORATION
P.O.Box1, Hamamatsu, Japan

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■ TO SERVICE PERSONNEL

1. Critical Components Information.
Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Models Only).
When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.
 - Meter impedance should be equivalent to 1500 ohm shunted by 0.15 μ F.
 - Leakage current must not exceed 0.5mA.
 - Be sure to test for leakage with the AC plug in both polarities.



“CAUTION”

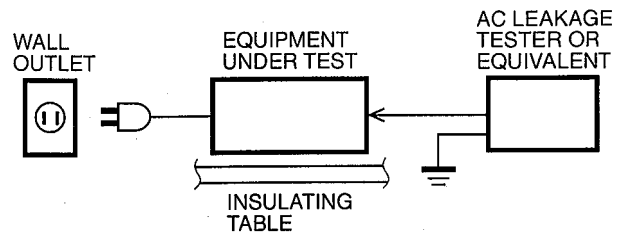
“F201, 202 : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 6.0A, 125V FUSE.”
 “F801 : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 10A, 250V FUSE.”

CAUTION

F201, 202 : REPLACE WITH SAME TYPE 6.0A, 125V FUSE.
 F801 : REPLACE WITH SAME TYPE 10A, 250V FUSE.

ATTENTION

F201, 202 : UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE DE 6.0A, 125V.
 F801 : UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE DE 10A, 250V.



WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

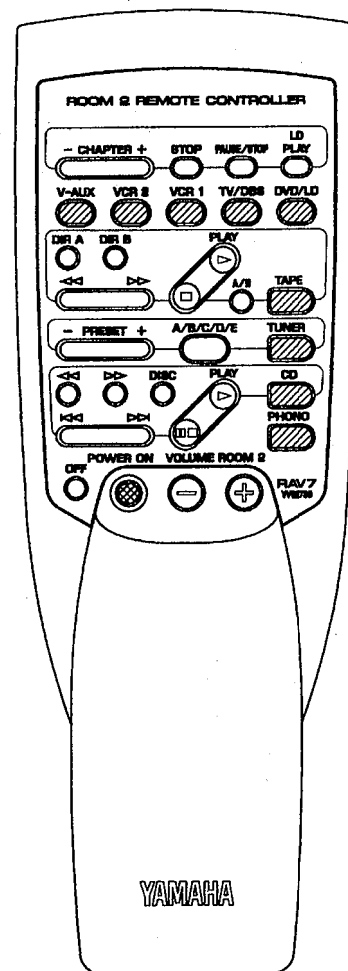
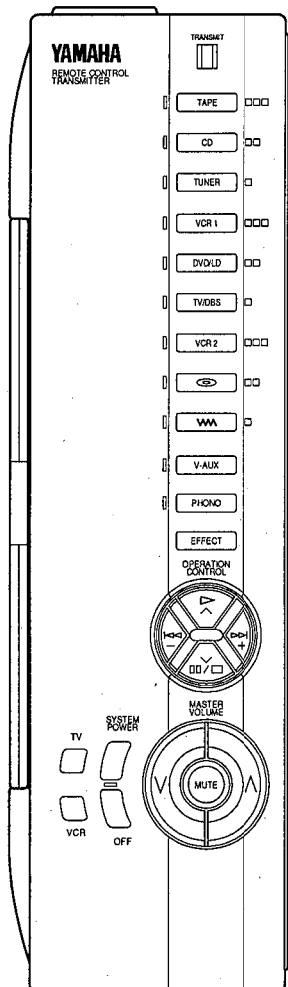
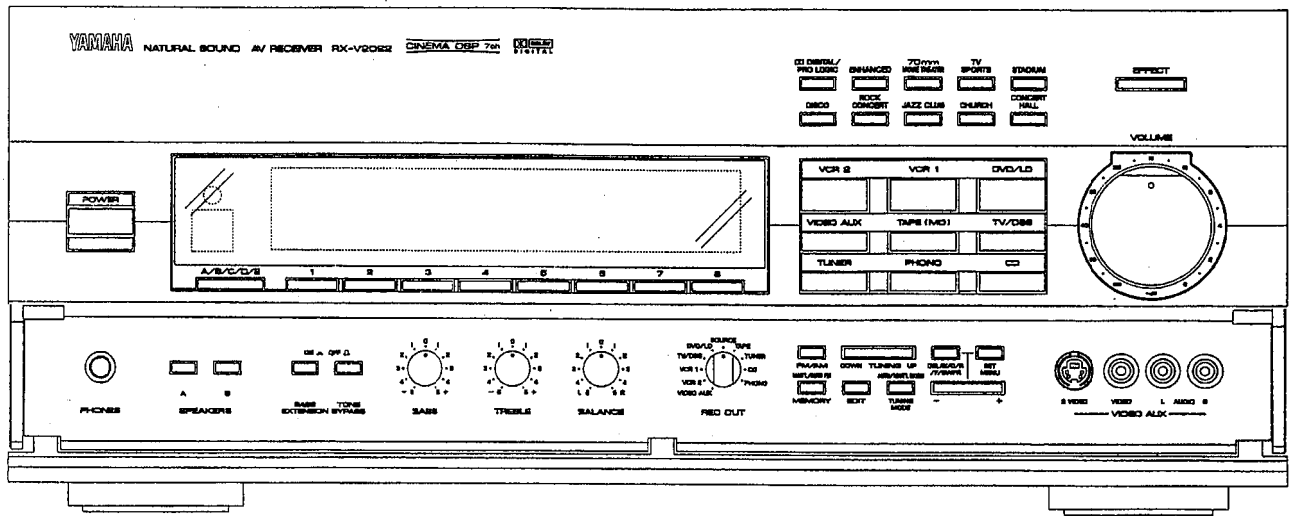
DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

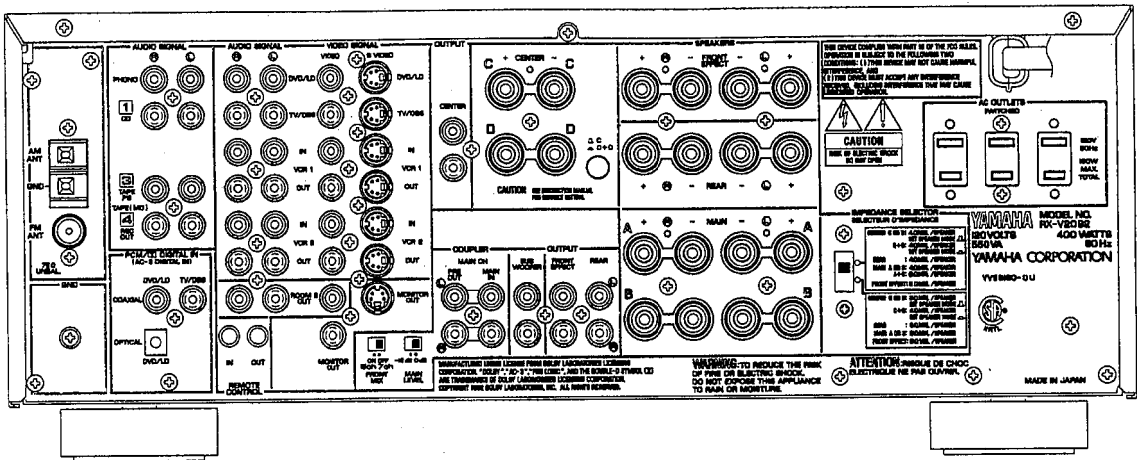
FRONT PANELS

RX-V2092

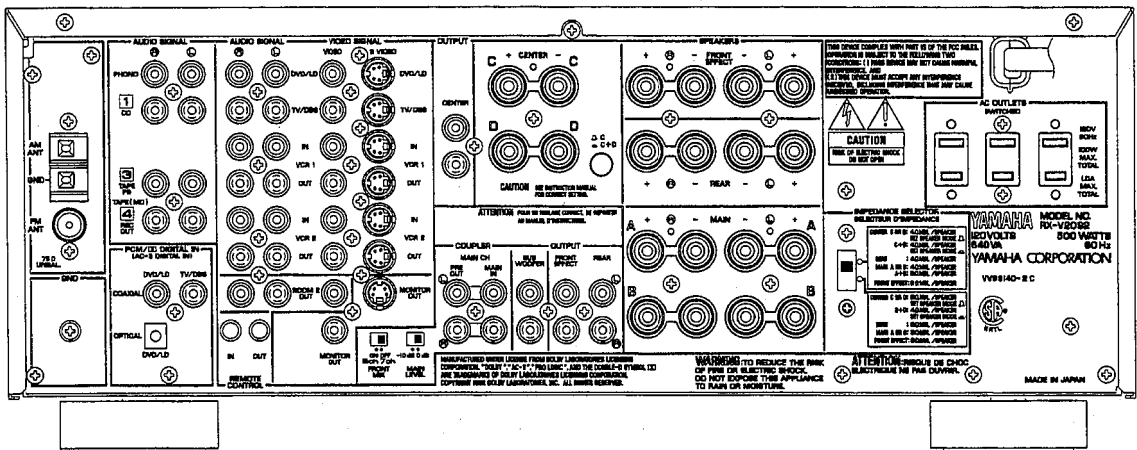


REAR PANELS

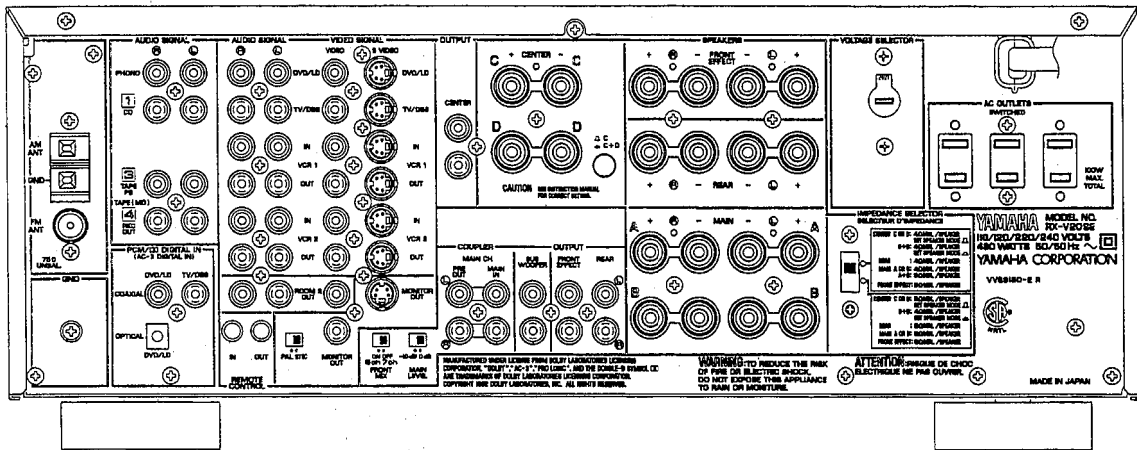
▼ U model



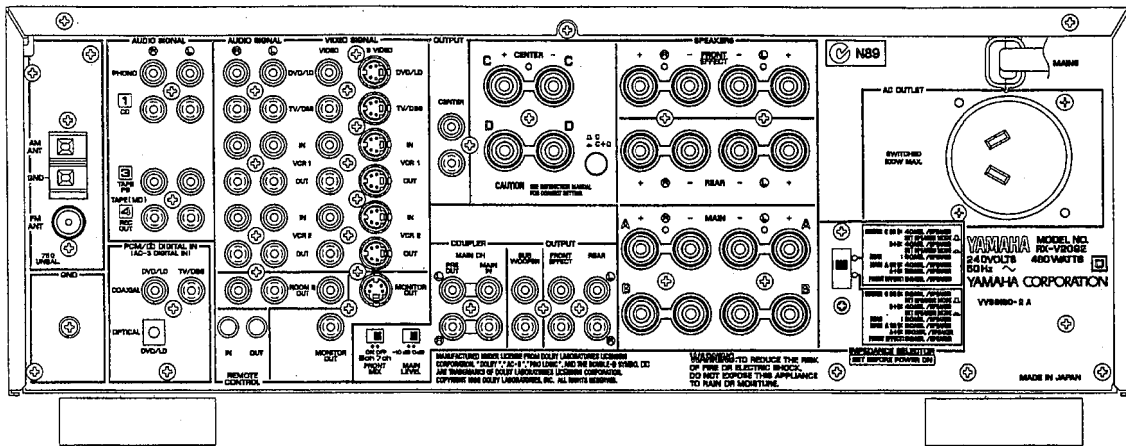
▼ C model



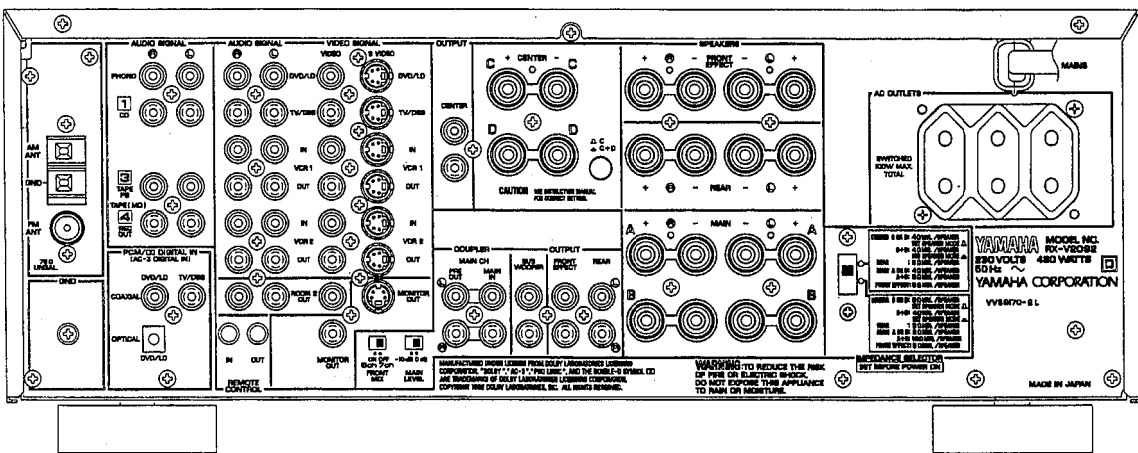
▼ R model



▼ A model



▼ L model



WARNING
Do not change the IMPEDANCE SELECTOR switch setting while the power to this unit is on, otherwise this unit may be damaged.

ATTENTION
DO NOT CHANGE THE SWITCH POSITION WHILE THE POWER IS ON.

IMPEDANCE SELECTOR

■ SPECIFICATIONS

■ AUDIO SECTION

| | |
|---|----------------------|
| Minimum RMS Output Power per Channel | |
| MAIN, 20Hz to 20kHz, 0.02% THD, 8Ω | 100W |
| CENTER, 20Hz to 20kHz, 0.02% THD, 8Ω | 100W |
| REAR, 20Hz to 20kHz, 0.02% THD, 8Ω | 100W |
| FRONT, 1kHz, 0.05% THD, 8Ω | 25W |
| Maximum Power per Channel (R model only) | |
| MAIN, 1kHz, EIAJ, 10% THD, 8Ω | 135W |
| Dynamic Power per Channel (IHF) | |
| MAIN, 8/6/4/2Ω | 140/170/220/320W |
| DIN Standard Output Power per Channel (L model only) | |
| MAIN, 1kHz, 0.7% THD, 4Ω | 160W |
| Dynamic Headroom (U, C, models only) | |
| 8Ω | 1.46dB |
| IEC Power (L model only) | |
| MAIN, 1kHz, 0.015% THD, 8Ω | 115W |
| Power Band Width | |
| MAIN, 0.08% THD, 50W/8Ω | 10Hz to 50kHz |
| Damping Factor | |
| MAIN, 20Hz to 20kHz, 8Ω | 200 or more |
| Input Sensitivity/Impedance | |
| PHONO MM | 2.5mV/47kΩ |
| CD, etc | 150mV/47kΩ |
| MAIN IN | 1V/47kΩ |
| Maximum Input Signal Level | |
| PHONO MM, 1kHz, 0.04% THD | 110mV |
| CD, etc, 1kHz, 0.5% THD (Effect on) | 2.2V |
| Output Level/Impedance | |
| REC OUT | 150mV/2.7kΩ |
| PRE OUT (MAIN) | 1V/1.2kΩ |
| ROOM 2 OUT | 1V/1.5kΩ |
| SUB WOOFER (MAIN SP : SMALL) | 3.4V/1.2kΩ |
| Headphone Jack Rated Output/Impedance | |
| 1kHz, 150mV, 8Ω | 0.5V/440Ω |
| Frequency Response (20Hz to 20kHz) | |
| CD, etc, MAIN | 0±0.5dB |
| RIAA Equalization Deviation (20Hz to 20kHz) | |
| PHONO MM | 0±0.5dB |
| Total Harmonic Distortion (20Hz to 20kHz) | |
| PHONO MM to REC OUT (1V) | 0.01% |
| CD, etc to MAIN SP OUT (50W/8Ω) | 0.015% |
| MAIN IN to MAIN SP OUT (50W/8Ω) | 0.008% |
| Signal-to-Noise Ratio (IHF-A-Network) | |
| PHONO MM, Input Shorted (5mV) REC OUT | 86dB |
| CD, etc, Input Shorted, SP OUT (Effect off) | 96dB |
| Residual Noise (IHF-A-Network) | |
| MAIN, SP OUT | 150μV |
| Channel Separation (Vol. -30dB, Effect off) | |
| PHONO MM, Input Shorted, 1kHz/10kHz | 60dB/55dB |
| CD, etc, Input 5.1kΩ Shorted, 1kHz/10kHz | 60dB/45dB |
| Tone Control Characteristics | |
| BASS : Boost/cut | ±10dB (50Hz) |
| Turnover Frequency | 350Hz |
| TREBLE : Boost/cut | ±10dB (20kHz) |
| Turnover Frequency | 3.5kHz |
| Filter Characteristics | |
| MAIN, REAR SP SMALL : H.P.F. | fc = 90Hz, 12dB/oct. |
| SUB WOOFER : L.P.F. | fc = 90Hz, 24dB/oct. |
| Bass Extension | +6dB (50Hz) |
| Muting | -∞ |
| Gain Tracking Error (0dB to -60dB) | 3dB |
| Tuner Output Level/Impedance | |
| FM (100% mod.) | |
| 1kHz-U, C, R models | 500mV/2.2kΩ |
| 40kHz Dev. A, L models | 400mV/2.2kΩ |
| AM (30% mod. 1kHz) | 150mV/2.2kΩ |

■ FM SECTION

| | |
|--|----------------------------------|
| Tuning Range | |
| U, C models | 87.5 to 107.9MHz |
| A, L models | 87.50 to 108.00MHz |
| R model | 87.5 to 107.9/87.50 to 108.00MHz |
| 50dB Quieting Sensitivity (IHF, 75 Ω) | |
| Mono | 1.55μV (15.1dBf) |
| Stereo | 21μV (37.7dBf) |
| Image Response Ratio | |
| U, C, R models | 45dB |
| A, L models | 80dB |
| IF Response Ratio | |
| U, C, R models | 70dB |
| A, L models | 80dB |
| Spurious Response Ratio | |
| | 70dB |
| AM Suppression Ratio | |
| | 55dB |
| Capture Ratio | |
| | 1.5dB |
| Alternate Channel Selectivity | |
| U, C, R models | 85dB |
| Selectivity (two signals, 40kHz Dev.) | |
| A, L models | 70dB |
| Signal-to-Noise Ratio | |
| Mono/Stereo (IHF) | |
| U, C, R models | 80/75dB |
| Mono/Stereo (DIN-weighted, 40kHz Dev.) | |
| A, L models | 75/70dB |
| Harmonic Distortion | |
| Mono/Stereo (1kHz) | 0.1/0.2% |
| Stereo Separation | |
| 1kHz | 50dB |
| Frequency Response | |
| 20Hz to 15kHz | 0±1.5dB |

■ AM SECTION

| | |
|-----------------------------------|------------------------------|
| Tuning Range | |
| U, C models | 530 to 1,710kHz |
| A, L models | 531 to 1,611kHz |
| R model | 530 to 1,710/531 to 1,611kHz |
| Usable Sensitivity | |
| | 100μV/m |
| Selectivity | |
| | 32dB |
| Signal-to-Noise Ratio | |
| | 50dB |
| Image Response Ratio | |
| | 40dB |
| Spurious Response Ratio | |
| | 50dB |
| Harmonic Distortion (1kHz) | |
| | 0.3% |

■ VIDEO SECTION


| | |
|--|------------------|
| Video Signal Type | |
| U, C models | NTSC |
| A, L models | PAL |
| R model | NTSC/PAL |
| Video Signal Level | 1Vp-p/75Ω |
| S-Video Signal Level | |
| Y | 1Vp-p/75Ω |
| C | 0.286Vp-p/75Ω |
| Maximum Input Level | 1.5Vp-p |
| Signal-to-Noise Ratio | 50dB |
| Monitor Output Frequency Response | .5Hz~10MHz, -3dB |

■ GENERAL

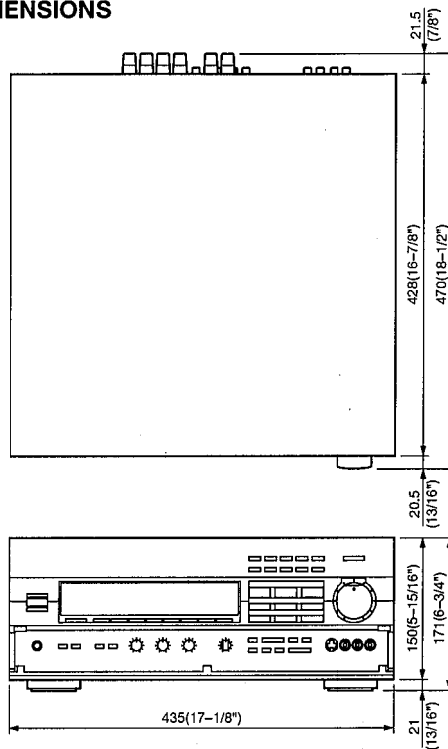
| | |
|---|--|
| Power Supply | |
| U, C models | AC 120V, 60Hz |
| A model | AC 240V, 50Hz |
| L model | AC 230V, 50Hz |
| R model | AC 110/120/220/240V, 50/60Hz |
| Power Consumption | |
| U model | 450W |
| C model | 500W/640VA |
| A, L, R models | 480W |
| Maximum Power Consumption (R model only) | 770W |
| AC Outlets | |
| U, C, L, R models, Switched x 3 | 100W max (Total) |
| A model, Switched x 1 | 100W max |
| Dimensions (W x H x D) | 435 x 171 x 470mm (17-1/8" x 6-3/4" x 18-1/2") |
| Side Panel model (R only) | 473 x 171.5 x 470mm (18-5/8" x 6-3/4" x 18-1/2") |
| Weight | 20.0 kg (44 lbs 1oz) |
| Side Panel model (R only) | 22.0 kg (48 lbs 8oz) |
| Accessories | AM loop antenna x 1 Indoor FM antenna x 1 Remote Control Transmitter x 2 Battery (size "AA", "R06") x 4 |

* Specifications subject to change without notice.

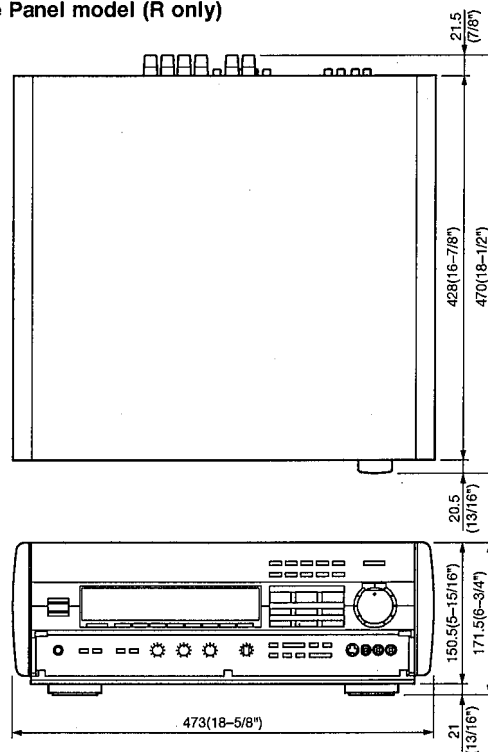
- U USA model
- C Canadian model
- A Australian model
- L Singapore model
- R General model

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● DIMENSIONS

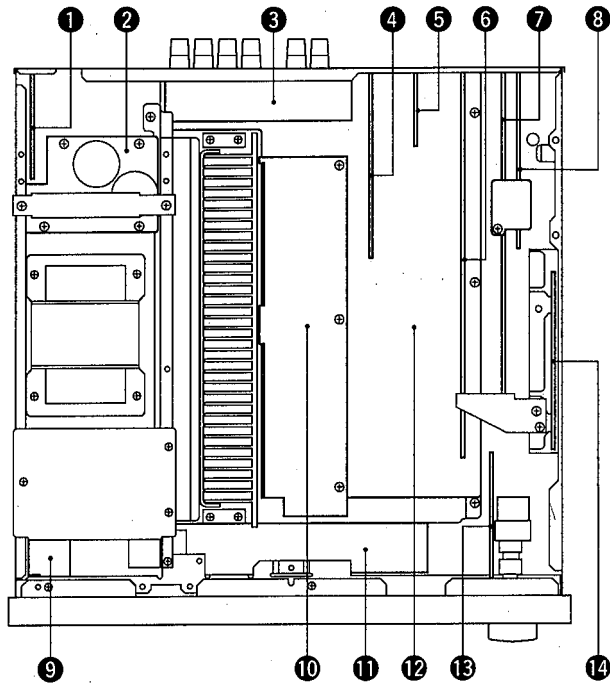


Side Panel model (R only)



Units : mm (inch)

INTERNAL VIEW



- 1 P. C. B. VIDEO (5)
- 2 P. C. B. MAIN (3)
- 3 P. C. B. MAIN (2)
- 4 P. C. B. VIDEO (4)
- 5 P. C. B. VIDEO (3)
- 6 P. C. B. FUNCTION (1)
- 7 P. C. B. FUNCTION (2)
- 8 P. C. B. TUNER
- 9 P. C. B. OPERATION (9)
- 10 P. C. B. VIDEO (1)
- 11 P. C. B. OPERATION (6)
- 12 P. C. B. MAIN (1)
- 13 P. C. B. OPERATION (5)
- 14 P. C. B. DSP

DISASSEMBLY PROCEDURES (Remove parts in disassembly order as numbered.)

1. Removal of Top Cover

a. Remove 4 screws (1), 2 screws (2) and 2 screws (3) in Fig. 1.

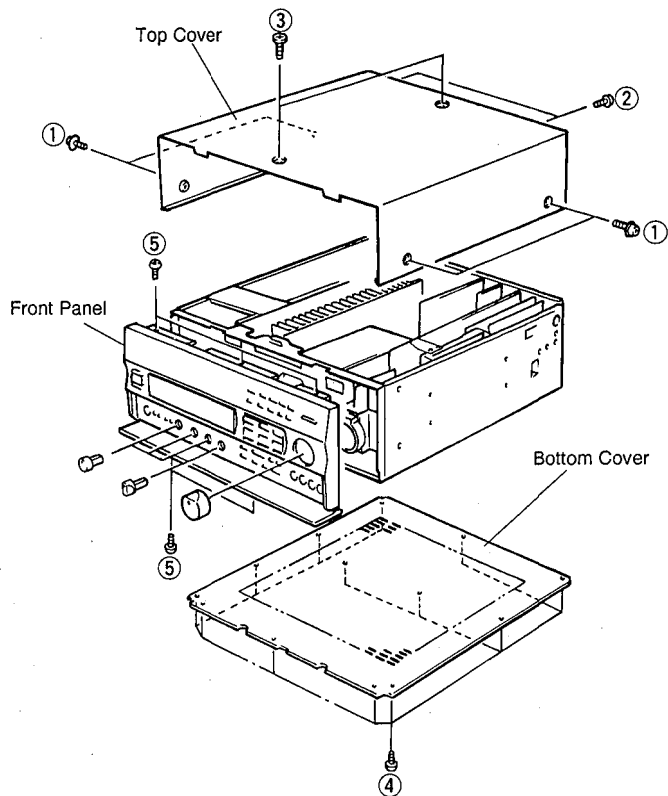
2. Removal of Bottom Cover

a. Remove 13 screws (4) in Fig. 1.

3. Removal of Front Panel

a. Remove 5 knobs.

b. Remove 5 screws (5) in Fig. 1.



Titanium model (R only)

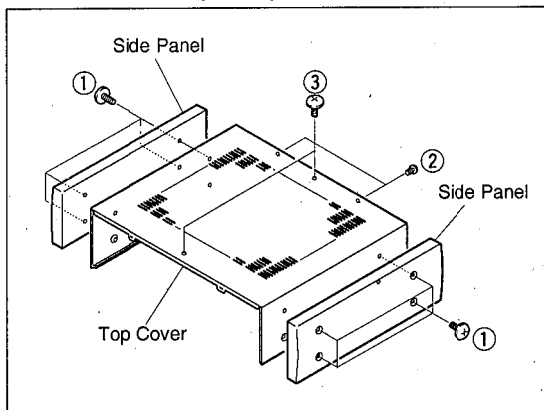


Fig. 1

■ SELF DIAGNOSIS FUNCTION

1. PURPOSE AND OPERATION

The RX-V2092 has a Self Diagnosis Function to locate a faulty part, if any, by inspecting and taking measurements.

There are 15 main items in the diagnostic menu and some of them have sub-menu items as listed below.

| No. | MAIN MENU | SUB MENU | CONTENTS |
|-----|--------------------|---|---|
| 1 | THROUGH | --- | 7ch. THROUGH |
| 2 | FRONT THROUGH | --- | DIGITAL PS-RAM THR. FRONT MIX ON(5ch.) |
| 3 | PRO LOGIC | 1. CENTER WIDE 2. CENTER NORMAL 3. CENTER PHANTOM 4. EFFECT OFF | PRO LOGIC PRO LOGIC PRO LOGIC ANALOG L/R THROUGH |
| 4 | AC3 THROUGH | --- | |
| 5 | MANUAL TEST | 1. TEST LEFT 2. TEST CENTER 3. TEST RIGHT 4. TEST RIGHT SUR. 5. TEST LEFT SUR. 6. TEST LFE 7. TEST FRONT LEFT 8. TEST FRONT RIGHT 9. TEST ALL | TEST NOISE TEST NOISE TEST NOISE TEST NOISE TEST NOISE TEST NOISE TEST NOISE TEST NOISE TEST NOISE TEST NOISE 7ch. ALL |
| 6 | DISPLAY/EFFECT OFF | 1. EFFECT OFF 2. VFD ALL 3. VFD OFF | ANALOG L/R THROUGH ANALOG L/R THROUGH ANALOG L/R THROUGH |
| 7 | FACTORY PRESET | 1. KEEP DATA 2. FACTORY PRESET | KEEP LAST CONDITION KEEP as from FACTORY |
| 8 | AD DATA CHECK | 1. KEY(CH0 - CH4) 2. PROTECTION/THERMO 3. SW/REC OUT/METER | SAME as MENU No.1 SAME as MENU No.1 SAME as MENU No.1 |
| 9 | VERSION INFOMATION | 1. MODEL/MARKET 2. ROM(PROGRAM) | KEEP LAST CONDITION KEEP LAST CONDITION |
| 10 | MENU EXIT & DEMO | 1->2 DEMO DISPLAY | --- |
| 11 | DSP STATES | 1. PORT/FS/AC3 MODE 2. SUB-CODE | KEEP LAST CONDITION KEEP LAST CONDITION |
| 12 | CENTER SPEAKER | 1. CENTER WIDE 2. CENTER NORMAL 3. CENTER PHANTOM | KEEP LAST CONDITION KEEP LAST CONDITION KEEP LAST CONDITION |
| 13 | REAR SPEAKER | 1. REAR LARGE 2. REAR SMALL | KEEP LAST CONDITION KEEP LAST CONDITION |
| 14 | MAIN SPEAKER | 1. MAIN LARGE 2. MAIN SMALL | KEEP LAST CONDITION KEEP LAST CONDITION |
| 15 | LFE/BASS OUT | 1. BASS SUB WOOFER 2. BASS MAIN 3. BASS BOTH | KEEP LAST CONDITION KEEP LAST CONDITION KEEP LAST CONDITION |

2. STARTING DIAGNOSIS FUNCTION

(1) Starting diagnosis function

A. Starting the program

Turn on the power while pressing the "VCR2" key and "VIDEO AUX" key on the front panel of the main unit simultaneously, and the diagnostic program will start.

After the program has started, execute the diagnostic menu No.1.

B. Settings for start-up of diagnostic program

The settings used when starting the diagnostic program are as follows.

1. EFFECT LEVEL :

| CHANNEL | FRONT | CENTER | REAR | SWFR | LFE |
|------------|-------|--------|------|------|-----|
| LEVEL (dB) | -10 | 0 | 0 | 0 | 0 |

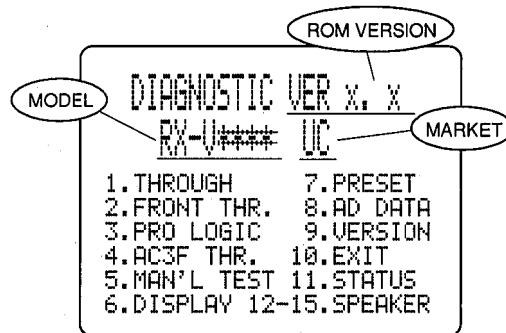
- 2. SPEAKER RELAY A/B : ON
- 3. MUTEING : OFF
- 4. INPUT (VIDEO) : DVD/LD (DVD/LD)
- 5. CENTER SPEAKER : WIDE
- 6. REAR SPEAKER : LARGE
- 7. MAIN SPEAKER : LARGE
- 8. LFE/BASS OUT : SWFR
- 9. ROOM 2 INPUT (VIDEO) : DVD/LD (DVD/LD)
- 10. ROOM 2 VOLUME : -30dB

C. Start-up display

The diagnostic menu list appears on the monitor screen and the information of the protection function appears on the front panel display of the main unit.

● Monitor display

The version information including the list of diagnostic menu items, the model, the applicable market and the ROM version appear on the monitor display. For details of the version information, refer to (9) Version under 5. CONTENTS OF DIAGNOSIS FUNCTION.



<MONITOR DISPLAY>

● FL display at start-up of diagnostic program

When the diagnostic program has started, the history (*2) of the protection function (*1) is displayed. If the protection function has been activated in the past, the type and voltage value are displayed and after a few seconds the diagnosis function menu will appear.

(*1) If some faulty condition is detected in the excess current, the power source or the DC, the power will be turned off automatically.

(*2) To clear the history of the protection function, select "PRESET DAT" in the diagnosis menu No.7 as described later.

● History of protection function

Each case of the history of the protection function is displayed as shown below.

```
1 DVD/LD  NO PROTEC
```

The protection function has not been activated.

```
1 DVD/LD  I PROTEC
```

The protection function has been activated due to an overcurrent. In this state, even if the power is turned on, it will turn off immediately.

```
1 DVD/LD  PS FRT : 0
```

The protection function has been activated due to an abnormality in the power supply. In this state, even if the power is turned on, it will turn off after 0.5 second. The reduced level of the power is indicated in the AD value. For more information on this value, refer to 5. CONTENTS OF DIAGNOSIS FUNCTION in the later section.

```
1 DVD/LD  DC FRT : 0
```

The protection function has been activated due to a cause in the DC. In this state, even if the power is turned on, it will turn off after 2 seconds. The reduced level of the power is indicated in the AD value. For more information on this value, refer to 5. CONTENTS OF DIAGNOSIS FUNCTION in the later section.

```
1 DVD/LD  TMP PROTEC
```

The protection function has been activated due to an excessively high temperature of heat sink. As soon as such an abnormality is detected, the power is turned off.

3. OPERATION AND DISPLAY WHEN STARTING DIAGNOSIS FUNCTION

(1) Selection of diagnostic menu

The diagnostic menu and the sub-menu can be selected by using the front panel keys of the main unit or the remote control unit.

● Selection by using the front panel keys

Use the "TUNING UP DOWN" key to select the diagnostic menu and the "SET MENU" key to select the sub-menu.

● Selection by using the remote control unit

The diagnostic menu items No.1 through No.10 correspond to the sound field program keys No. 1 through No.10 and No.11 to the "EFFECT" key. The sub-menu changes at every push of the same key.

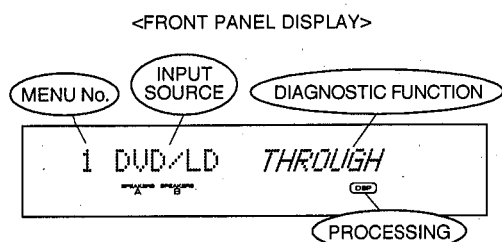
It is possible to call the sub-menu of other than the above diagnostic menu items. Refer to the table below for the key corresponding to each diagnostic menu item.

| No. | MAIN MENU | REMOTE CONTROL KEYS |
|-----|---------------------|-------------------------|
| 1 | THROUGH | PRO LOGIC/DOLBY DIGITAL |
| 2 | FRONT THROUGH | ENHANCED |
| 3 | PRO LOGIC | MOVIE THEATER |
| 4 | AC3F THROUGH | TV SPORTS |
| 5 | MANUAL TEST | STADIUM |
| 6 | DISPLAY/EFFECT OFF | DISCO |
| 7 | FACTORY PRESET | ROCK CONCERT |
| 8 | AD DATA CHECK | JAZZ CLUB |
| 9 | VERSION INFORMATION | CHURCH |
| 10 | MENU EXIT & DEMO | CONCERT HALL |
| 11 | DSP STATES | EFFECT |

| No. | MAIN MENU | SUB MENU | REMOTE CONTROL KEY |
|-----|--------------------|---|-----------------------------------|
| 1 | THROUGH | --- | TAPE PLAY |
| 2 | FRONT THROUGH | --- | TAPE ◀◀ |
| 3 | PRO LOGIC | 2. CENTER NORMAL | TAPE ▶▶ |
| 4 | AC3F THROUGH | --- | TAPE STOP |
| 5 | MANUAL TEST | 9. TEST ALL | TAPE REC |
| 6 | DISPLAY/EFFECT OFF | 2. VFD ALL/EFFECT OFF | TAPE A/B |
| 12 | CENTER SPEAKER | 1. CENTER WIDE 2. CENTER NORMAL 3. CENTER PHANTOM | TAPE DIRA CD PLAY CD PAUSE |
| 13 | REAR SPEAKER | 1. REAR LARGE 2. REAR SMALL | CD ▶▶ CD ◀◀ |
| 14 | MAIN SPEAKER | 1. MAIN LARGE 2. MAIN SMALL | CD ▶▶ CD ◀◀ |
| 15 | LFE/BASS OUT | 1. BASS SUB WOOFER 2. BASS MAIN 3. BASS BOTH | PRESET + PRESET - A/B/C/D/E |

(2) Menu display

The contents of the diagnostic function are displayed on the display panel.



(3) Other functions available while diagnosis function at work

Listed below are the other functions available while the diagnosis function is working.

- Selecting input source
- Adjusting effect level
- Adjusting master volume
- Muting on/ off
- Turning power off
- Selecting input source of ROOM 2
- Adjusting master volume of ROOM 2

4. CANCELING DIAGNOSIS FUNCTION

To cancel the diagnosis function, turn off the power. When the power is turned on the next time, the normal mode will start.

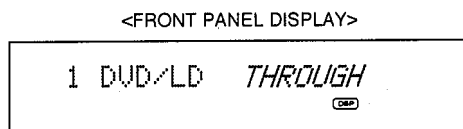
* When the diagnosis mode is canceled by using the diagnostic menu No.10 and set back to the normal mode, the photographing mode will appear on the front panel display. When the input is set to the "TUNER", all the segments of the tuning meter will light up. Also, when it is set to DVD/LD or TV/DBS, the display will be the same as when an AC3 signal is input.

5. CONTENTS OF DIAGNOSIS FUNCTION

This section describes the contents of the self diagnosis function in detail. Here the output channel names and the IC names are referred to as follows.

| | | | | | |
|-----------|----------|----------|----------|--------|--------|
| Main L | -> L | Main R | -> R | Center | -> C |
| Front L/R | -> FL/FR | Rear L/R | -> RL/RR | LFE | -> LFE |
| YSS245F | -> HL3 | YSS243F | -> AC3F | | |

(1) THROUGH



There are two signal passages, one is for the analog input signal and the other is for the digital input signal. They are switched from one to the other automatically with a priority placed for the digital signal over the analog signal. When digital signals are input, the digital optical input has a priority over the digital coaxial input.

● Digital signal passage

<DOLBY DIGITAL>

- The signals from L, R, C and LFE are output through the AC3F.
- The signals from FL/FR and RL/RR are output through the AC3F and then the DSP section of HL3 as the L/R signals.

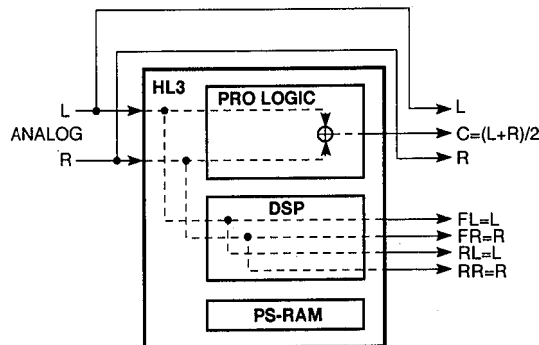
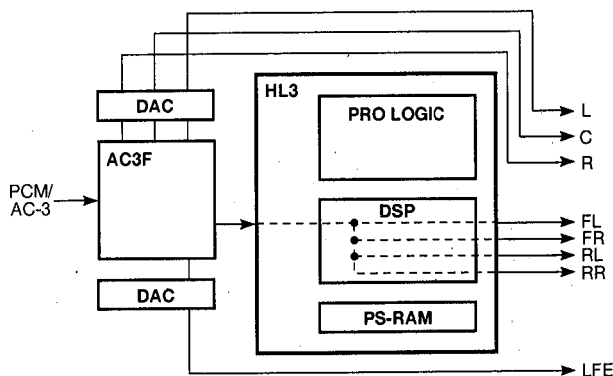
<PCM DIGITAL>

- The signals from L/R and C/LFE are output through the AC3F as the L/R signals.
- The signals from FL/FR and RL/RR are output through the AC3F and then the DSP section of HL3 as the L/R signals.

● Analog signal passage

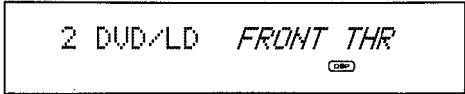
(when there is no digital signal input)

- The signals from L/R are output through the analog bypass.
- The signals from C are output through the PRO LOGIC section of HL3 as (L + R)/2.
- The signals from FL/FR and RL/RR are output through the DSP section of HL3 as the L/R signals.



(2) FRONT THROUGH

<FRONT PANEL DISPLAY>



There are two signal passages, one is for the analog input signal and the other is for the digital input signal. They are switched from one to the other automatically with a priority placed for the digital signal over the analog signal. When digital signals are input, the digital optical input has a priority over the digital coaxial input.

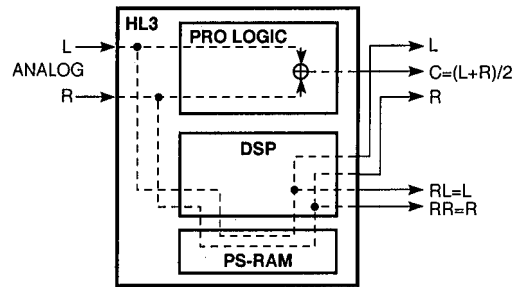
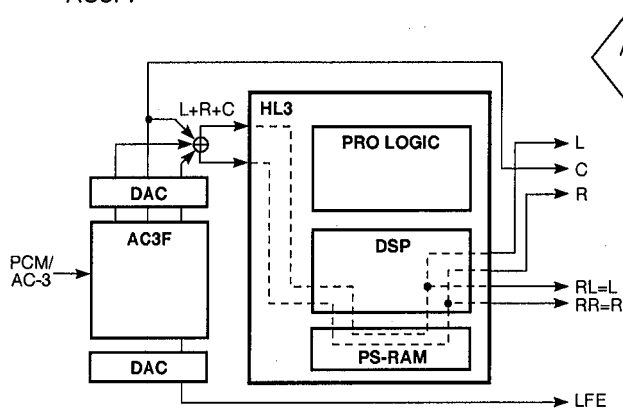
● Digital signal passage

- The signals from L, R, RL and RR are output through the DSP section of AC3F to HL3 as the L+R+C signal respectively.
- The signals from C and LFE are output through the AC3F.

● Analog signal passage

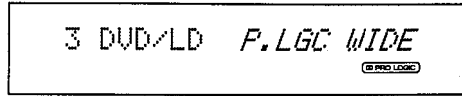
(when there is no digital signal input)

- The signals from L, R, RL and RR are output through the DSP section of HL3.
- The signals from C are output through the PRO LOGIC section of HL3 as (L+R)/2.



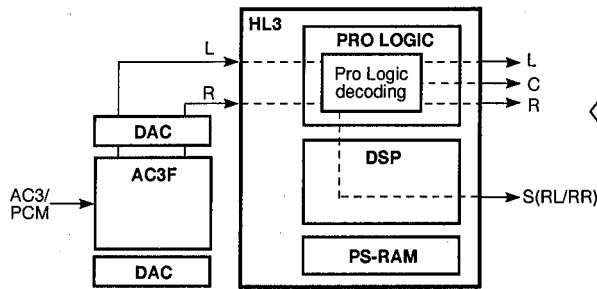
(3) PRO LOGIC

<FRONT PANEL DISPLAY>

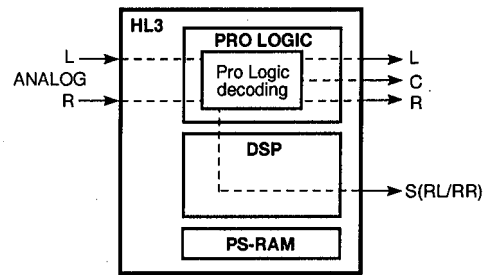


The PRO LOGIC function is activated when the AUTO INPUT BALANCE function is turned off. The digital and analog switching is available automatically with a priority placed for the digital signal over the analog signal. When digital signals are input, the digital optical input has a priority over the digital coaxial input.

● PRO LOGIC for digital signal

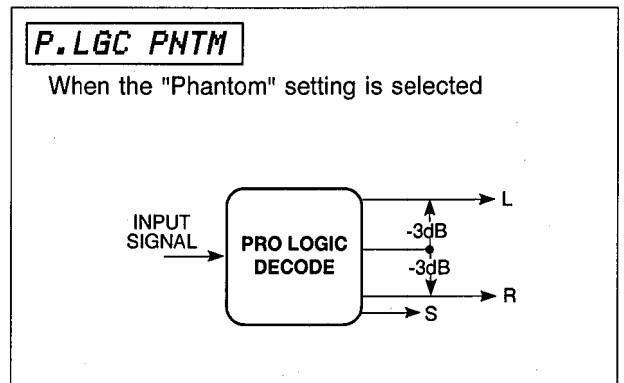
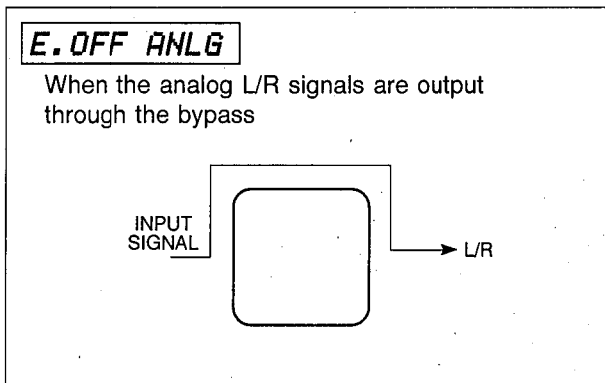
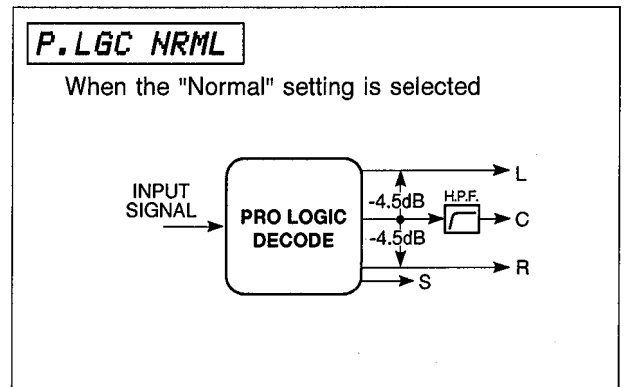
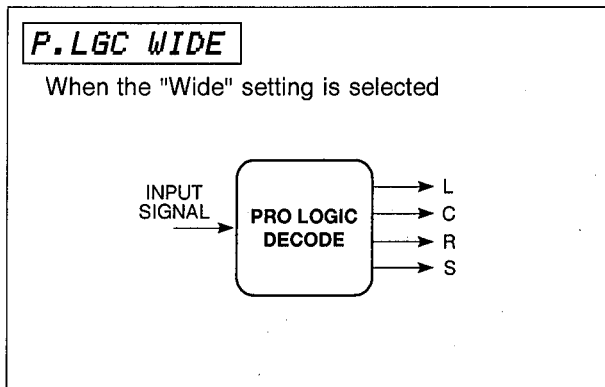


● PRO LOGIC for analog signal



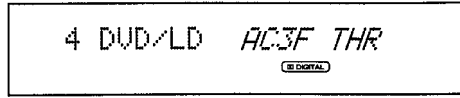
○ Sub-menu

The following 4 settings are selectable; "Normal", "Wide" and "Phantom" of the center speaker and the "Effect off" (for the analog output only).



(4) AC3F THROUGH

<FRONT PANEL DISPLAY>



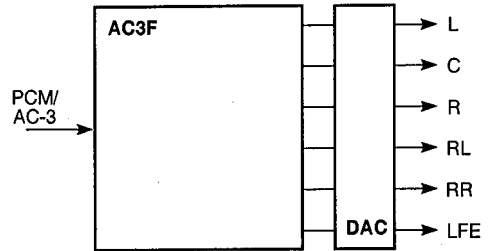
The signals from all the channels are output through the AC3F and the analog input signals are muted.

<DOLBY DIGITAL>

The Dolby digital signals from L, R, RL, RR, C and LFE are output through the AC3F.

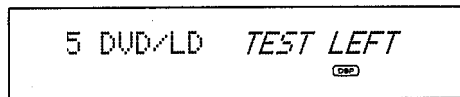
<PCM DIGITAL>

The PCM digital signals input as L/R signals are output to L/R, C/LFE and RL/RR channels respectively.



(5) MANUAL TEST TONE

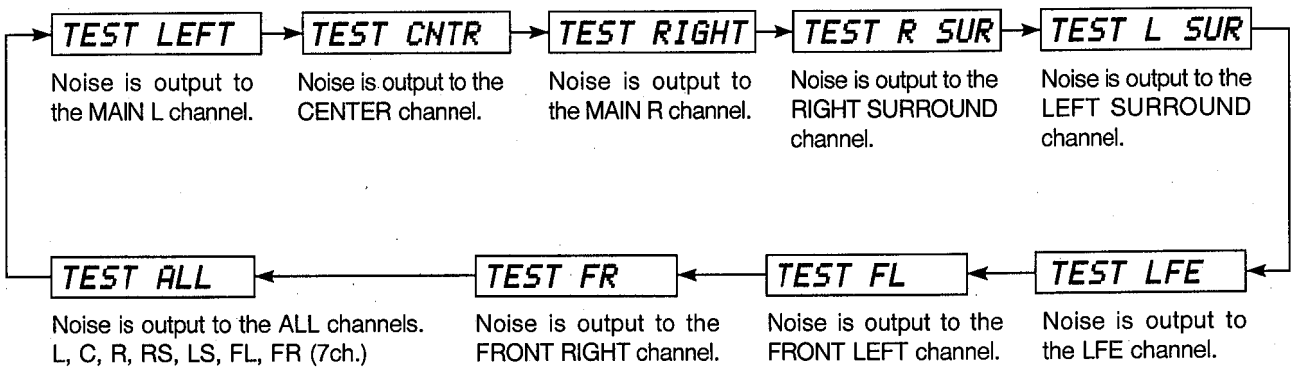
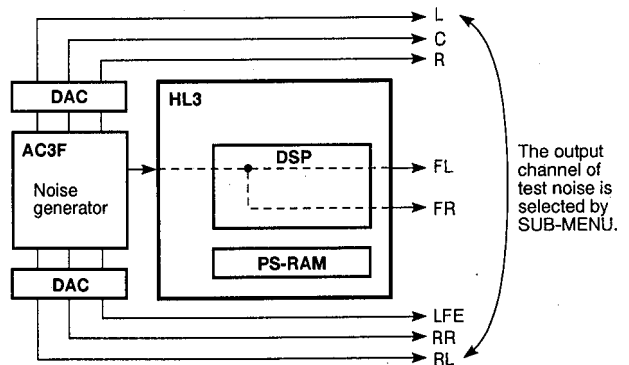
<FRONT PANEL DISPLAY>



The test noise generated by the noise generator built into the DSP is output to the channel selected by the sub-menu.

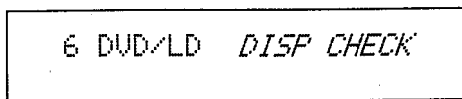
○ Sub-menu

Select the channel for the test noise output in the sequence as shown below.



6) FRONT PANEL VFD (Vacuum Fluorescent Display) check

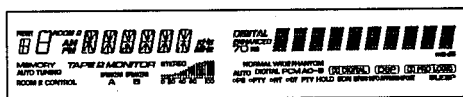
<FRONT PANEL DISPLAY>



With the model that has VFD check and the standby functions, perform the standby LED check to check the VFD driver and segments for operation. At this time, the signals from the main L/R channels are output through the analog bypass and the effect channel is muted.

○ Sub-menu

Either all the segments of VFD on or off can be selected. With the model that has a standby function, the LED lights up while selecting a menu.



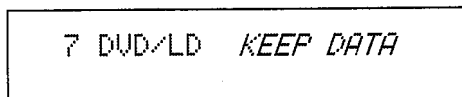
All the segments of VFD turn on.



All the segments of VFD turn off.

(7) FACTORY PRESET

<FRONT PANEL DISPLAY>



This menu is used to reserve whether or not to set the back-up data for the effect level, delay time and so on to the factory preset state.

KEEP DATA

The back-up data is not initialized. To keep the data set by the user, check that this mode has been selected and cancel the self diagnosis function.



PRESET DAT

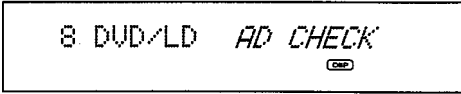
When the self diagnosis function is canceled, the back-up data is initialized to the factory preset state. For the contents of the initialization, refer to page 24.

CAUTION : Before setting to the PRESET DATA, write down the existing preset memory contents of the Tuner in a table as shown below. (This is because setting to the PRESET DATA will cause the memory contents to be as factory set, i.e., all the preset memory by the user will be erased.)

| Page | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|------|----|----|----|----|----|----|----|----|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |

(8) AD CONVERSION DATA

<FRONT PANEL DISPLAY>

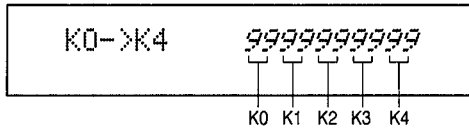


This menu is used to check the AD input port of the CPU and the resistance value to divide the voltage. The AD conversion data detected by the software is displayed in percentage in term of 5V as 100%. The signal processing content is the "THROUGH" passage of the diagnostic menu No.1.

* When the AD value deviates from the standard value by $\pm 4\%$, normal operation will not be available. In such a case, check the partial pressure resistance constant, soldering condition, etc.

○ Sub-menu

Using this menu, it is possible to check the AD value of the Input, Rec Out, Protection, Temperature Detection (fan control), PAL/NTSC switch, Front Mix switch, Frequency select switch (R model) signal meter in the tuner section. While the AD value is displayed, only selection of the diagnosis menu, turning off the power and cancellation of the diagnosis function are available.



The AD value detected when the front panel key is pressed is displayed in percentage. The AD values are assigned to the keys at 10% intervals as shown in the tables below.

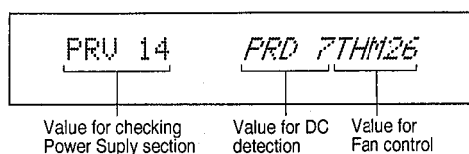
* For the keys in the parentheses in the tables below, no AD values are assigned. They are used to select the sub menus.

| AD value | 90% (4.5V) | 80% (4.0V) | 70% (3.5V) | 60% (3.0V) | 50% (2.5V) |
|----------|------------|------------|-------------|--------------|-------------|
| K0 | MEMORY | EDIT | TUNING MODE | FM/AM | TUNING DOWN |
| K1 | | | SPEAKER A | SPEAKER B | A/B/C/D/E |
| K2 | | | | EFFECT | PRO LOGIC |
| K3 | | PRESET 6 | PRESET 7 | PRESET 8 | TUNER |
| K4 | | | | ROCK CONCERT | JAZZ CLUB |

| AD value | 40% (2.0V) | 30% (1.5V) | 20% (1.0V) | 10% (0.5V) | 0% (0.0V) |
|----------|------------|---------------|------------|------------|-----------|
| K0 | TUNING UP | DLY/LVL | DLY/LVL - | DLY/LVL + | SET MENU |
| K1 | PRESET 1 | PRESET 2 | PRESET 3 | PRESET 4 | PRESET 5 |
| K2 | ENHANCED | MOVIE THEATER | TV SPORTS | STADIUM | DISCO |
| K3 | PHONO | CD | V-AUX | TV/DBS | TAPE |
| K4 | CHURCH | CONCERT HALL | VCR2 | VCR1 | DVD/LD |

PRESET : PRESET STATION
 DLY/LVL : DELAY TIME / SP LEVEL

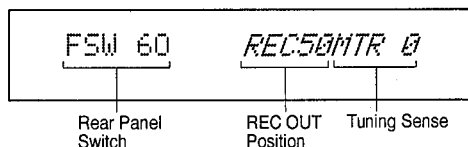




- **PRV** : The PRV value shows whether the supplied power voltage is correct or not. The voltage range for the normal operation is from 9 to 19. If the voltage exceeds this range, the protection function will be activated to turn off the power automatically.
- **PRD** : The PRD value shows whether there is an excessive DC output or not. The output range for the normal operation is from 2 to 13. If the voltage exceeds this range, the protection function will be activated to turn off the power automatically.
- **THM** : The THM value shows the detected heat sink temperature. It is used to control the air cooling fan. When the value drops less than 5, the protection function will be activated to turn off the power automatically.

Operation of air cooled fan

- 26 or more : The fan does not run.
- 23 ~ 25 : The fan may run at times.
- 24 ~ 6 : The fan runs in 3 steps.
- 5 or less : The protection function is activated.



- **FSW** : The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.

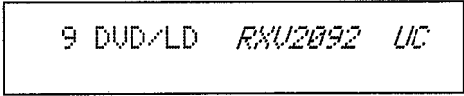
| FREQUENT STEP | PAL/NTSC | FRONT MIX | VOLTAGE | AD VALUE |
|---------------|----------|-----------|---------|----------|
| 10kHz | NTSC | OFF (7ch) | 0.0V | 0% |
| 10kHz | NTSC | ON (5ch) | 0.5V | 10% |
| 10kHz | PAL | OFF (7ch) | 1.0V | 20% |
| 10kHz | PAL | ON (5ch) | 1.5V | 30% |
| 9kHz | NTSC | OFF (7ch) | 2.0V | 40% |
| 9kHz | NTSC | ON (5ch) | 2.5V | 50% |
| 9kHz | PAL | OFF (7ch) | 3.0V | 60% |
| 9kHz | PAL | ON (5ch) | 3.5V | 70% |

- **REC** : The REC value shows the REC OUT position in percentage at 10% intervals.
- **MTR** : The MTR value shows the signal sensitivity of the tuner in percentage.

| REC OUT SELECTOR | VOLTAGE | AD VALUE |
|------------------|---------|----------|
| PHONO | 4.5V | 90% |
| CD | 4.0V | 80% |
| TUNER | 3.5V | 70% |
| TAPE | 3.0V | 60% |
| SOURCE | 2.5V | 50% |
| DVD/LD | 2.0V | 40% |
| TV/DBS | 1.5V | 30% |
| VCR 1 | 1.0V | 20% |
| VCR 2 | 0.5V | 10% |
| VIDEO AUX | 0.0V | 0% |

(9) VERSION

<FRONT PANEL DISPLAY>



Shown on the display are the model, the market and the ROM version.

○ Sub-menu

● **Model :**
"RXV2092" = RX-V2092

● **Market :**
"UC" = USA & Canadian models
"AL" = Australian & Singapore models
"R" = General model
"J" = Japan model

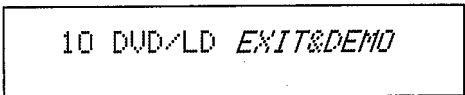


● **ROM Version :**
A version No. is given to the program to control the microprocessor, depending on the contents. The version is updated whenever any change is made to the contents.

(10) CANCELING DIAGNOSIS FUNCTION & ENTERING DEMONSTRATION DISPLAY MODE

When the diagnosis function is canceled by using the sub-menu, the program enters the demonstration display mode. For the signal processing contents, the menu before executing this menu will be valid.

<FRONT PANEL DISPLAY>

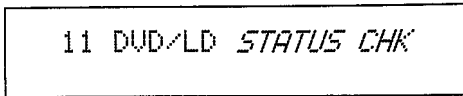


When the input selector is set to the TUNER position, all the segments of the tuning sensitivity meter turn on without any signal input. In addition, when the FM band is selected, the STEREO segment turns on.

When the input selector is set to the DVD/LD or TV/DBS position, the sound field program name and the DSP processing display are the same as those when the DOLBY DIGITAL signals are input without any signal input.

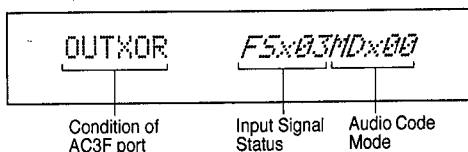
(11) STATUS DISPLAY

<FRONT PANEL DISPLAY>



Shown on the display are the digital signal and the digital processing status.

○ Sub-menu



- **OUT** : The OUT value shows the output port condition of AC3F by using the hexadecimal number (8 bits). The bit #0, 1, 2, 3, 4 and 5 when expressed in the binary number correspond to the port Nos. 102, 101, 100, 99, 98 and 97 of AC3F respectively.

| | | | | | | | | | | | | | | | | | |
|------------------------|------------------------|--|-------|-----|-----|-------|-----|-----|---|---|---|---|-----|---|---|---|---|
| #0 P102 | CLOCK SELECTOR | The status becomes "1" when the effect is off and "0" otherwise during "3-sound field processing". | | | | | | | | | | | | | | | |
| #1/#2 P101/ P100 | FS0/1 for DE-EMPHASIS | The status is set to match FS during reproduction of the software including PRE-EMPHASIS bit. <table border="1" style="margin-left: 20px;"> <tr> <td></td> <td>OFF</td> <td>32k</td> <td>44.1k</td> <td>48k</td> </tr> <tr> <td>FS0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> </tr> <tr> <td>FS1</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> </table> | | OFF | 32k | 44.1k | 48k | FS0 | 1 | 1 | 0 | 0 | FS1 | 0 | 1 | 0 | 1 |
| | OFF | 32k | 44.1k | 48k | | | | | | | | | | | | | |
| FS0 | 1 | 1 | 0 | 0 | | | | | | | | | | | | | |
| FS1 | 0 | 1 | 0 | 1 | | | | | | | | | | | | | |
| #3 P99 | DAC MUTE | The status becomes "0" when muted by DAC. | | | | | | | | | | | | | | | |
| #4 P98 | DIR CLOCK SELECTOR | The status becomes "0" during analog reproduction and "1" otherwise when in the test mode. | | | | | | | | | | | | | | | |
| #5 P97 | DIGITAL INPUT SELECTOR | The status becomes "0" when the DVD/LD input is selected and "1" when TV/DBS input is selected. | | | | | | | | | | | | | | | |

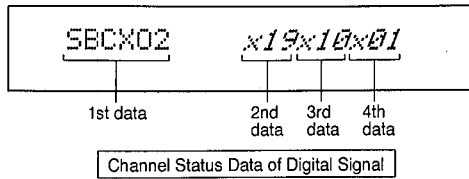
- **FS** : Shown on the display are conditions of the input signal

| | | | | |
|--------------|---------|---------|-------|--------|
| | DIGITAL | | | ANALOG |
| SIGNAL | 32kHz | 44.1kHz | 48kHz | |
| DISPLAY DATA | x00 | x01 | x02 | x03 |

- **MD** : Shown on the display are the audio codes for the Dolby digital signal. For the other signals, they become indefinite.

| | | | | | | | | |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|
| AUDIO CODE MODE | LtRt | 1/0 | 2/0 | 3/0 | 2/1 | 3/1 | 2/2 | 3/2 |
| DISPLAY DATA | x00 | x01 | x02 | x03 | x04 | x05 | x06 | x07 |





The channel status data of the digital signal is displayed in the 4 byte data of the hexadecimal number. When there is no digital signal input, the status becomes indefinite. In the description below, the hexadecimal number data is expressed in the LSB first binary number.

● **FIRST DATA**

This data shows the FORMAT data and the EMPHASIS information.

When the DOLBY digital signal is input, the bit #0 is "1" and it becomes "0" when the PCM digital signal is input. When the signal source has the emphasis effect, the bit #2 status becomes "1".

● **SECOND DATA**

This data shows the CATEGORY code of the digital signal.

● **THIRD DATA**

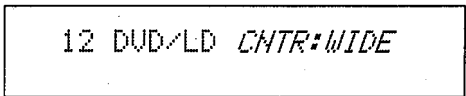
This data shows the source and the channel No. of the digital signal.

● **FOURTH DATA**

This data shows the sampling frequency of the digital signal. When it is 32kHz, the status of bit #0 and #1 is "1". When it is 44.1kHz, the status of bit #0 and #1 is "0". Also, when it is 48kHz, the status of bit #0 is "0" and that of #1 is "1".

(12) CENTER SPEAKER

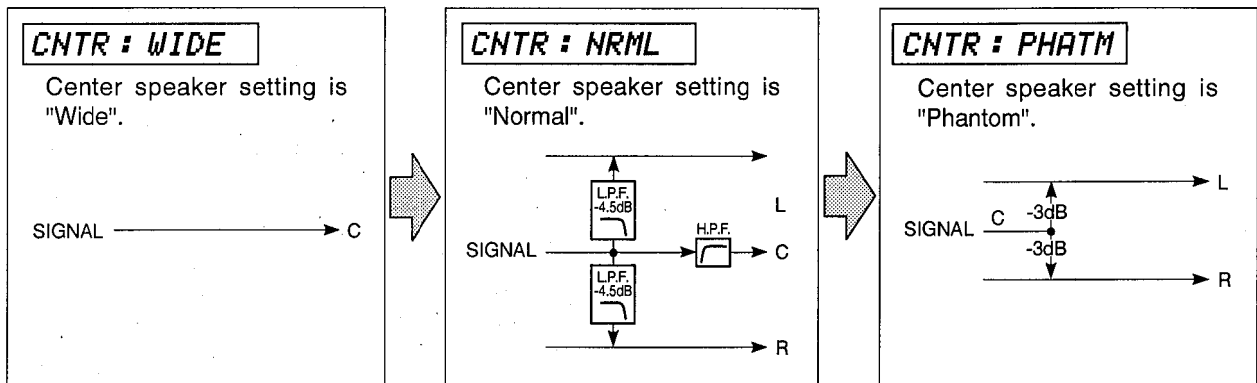
<FRONT PANEL DISPLAY>



The mode of the center speaker can be selected.

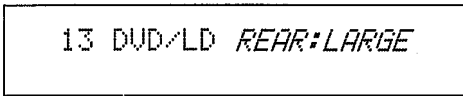
○ **Sub-menu**

The center speaker setting can be selected among WIDE, NORMAL and PHANTOM.



(13) REAR SPEAKER

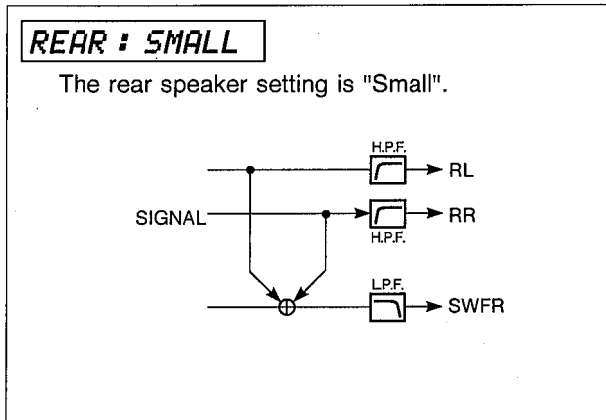
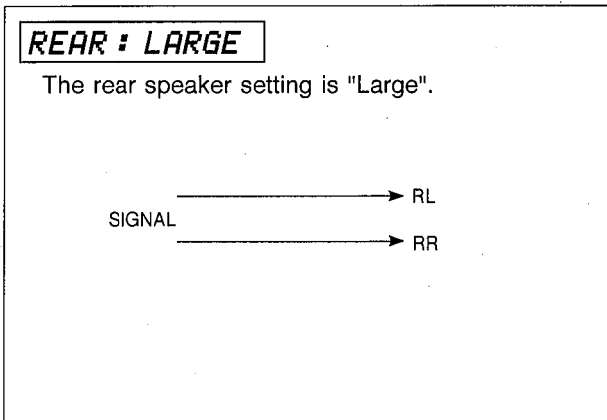
<FRONT PANEL DISPLAY>



The mode of the rear speaker can be selected.

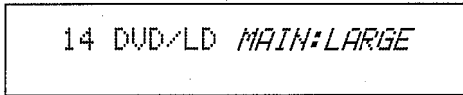
○ **Sub-menu**

The rear speaker setting can be selected between LARGE and SMALL.



(14) MAIN SPEAKER

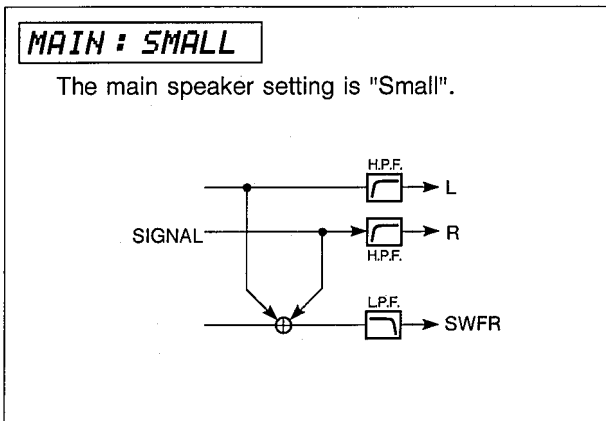
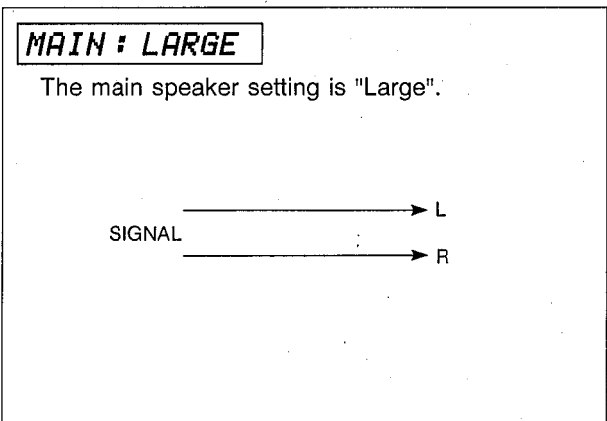
<FRONT PANEL DISPLAY>



The mode of the main speaker can be selected.

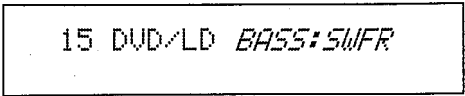
○ **Sub-menu**

The main speaker setting can be selected between LARGE and SMALL.



(15) BASS OUT

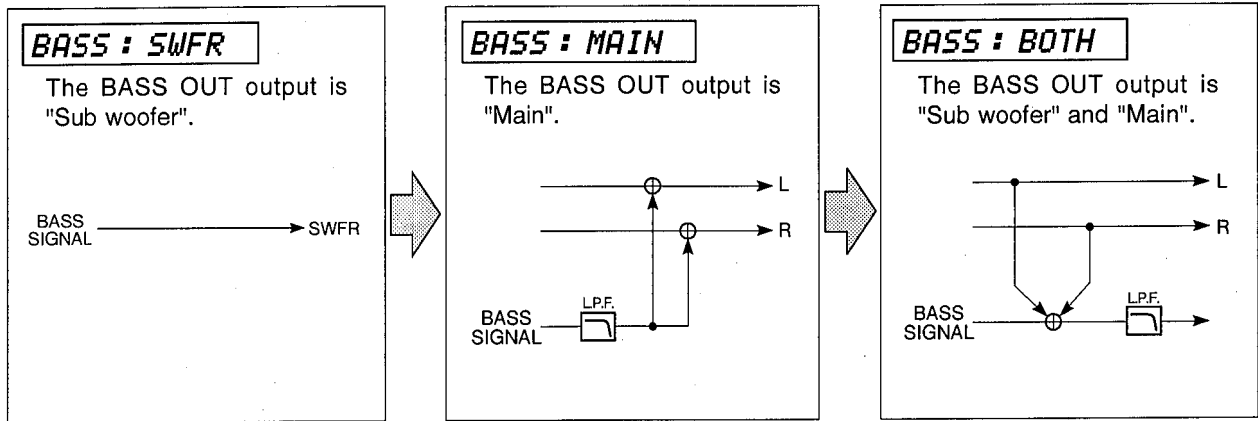
<FRONT PANEL DISPLAY>



The mode of the BASS output can be selected.

○ Sub-menu

The BASS output setting can be selected among SWFR, MAIN and BOTH.
The bass signal in the figures below is the low range component of LFE and the rear.



■ AMP CHECK

● Confirmation of Idling Current

- 1) No signal applied.
 - 2) Non-loaded condition.
 - 3) Aging is 10 minutes.
- See page 52 to 54 for check points.

| Item | Test Point | Rating (DC) |
|---------|---------------------------------------|-------------|
| MAIN L | Q168 Base~Emitter (P.C.B. MAIN [1]) | 100mV~300mV |
| MAIN R | Q171 Base~Emitter (P.C.B. MAIN [1]) | |
| CENTER | Q180 Base~Emitter (P.C.B. MAIN [1]) | |
| REAR L | Q174 Base~Emitter (P.C.B. MAIN [1]) | |
| REAR R | Q177 Base~Emitter (P.C.B. MAIN [1]) | |
| FRONT L | Q208 Base~Emitter (P.C.B. VIDEO [1]) | 100mV~350mV |
| FRONT R | Q214 Base~Emitter (P.C.B. VIDEO [1]) | |

■ FACTORY PRESET

All the settings of the system are initialized on shipping. The settings are as follows.

● **INPUT (VIDEO)** DVD/LD (DVD/LD)

● **ROOM 2 INPUT (VIDEO)** DVD/LD (DVD/LD)

● EFFECT LEVEL

| EFFECT CHANNEL | PRESET VALUE | CONTROL RANGES |
|----------------|--------------|--------------------|
| FRONT | 0 dB | MIN, -20dB — +10dB |
| CENTER | 0 dB | MIN, -20dB — +10dB |
| RIGHT SURROUND | 0 dB | MIN, -20dB — +10dB |
| LEFT SURROUND | 0 dB | MIN, -20dB — +10dB |
| SUB WOOFER | 0 dB | MIN, -20dB — 0dB |

● DSP PROGRAM

| INPUT | DSP PROGRAM |
|-----------|----------------------------|
| PHONO | CONCERT HALL |
| CD | ROCK CONCERT |
| TUNER | DISCO |
| TAPE | JAZZ CLUB |
| DVD/LD | 70mm/DIGITAL MOVIE THEATER |
| TV/DBS | TV SPORTS |
| VCR 1 | ENHANCED |
| VCR 2 | PRO LOGIC |
| VIDEO AUX | ENHANCED |

● SET MENU

| No. | SET MENU | PRESET VALUE | SETTING RANGES |
|-----|---------------------|-------------------|---------------------|
| 1. | CENTER DELAY | 0 ms | 0 ms — 5 ms |
| 2. | DYNAMIC RANGE | MAX | MAX/STD/MIN |
| 3. | LFE LEVEL | 0 dB | -20dB — 0dB |
| 4. | CENTER SPEAKER | NORMAL | NORMAL/WIDE/PHANTOM |
| 5. | REAR SPEAKER | SMALL | SMALL/LARGE |
| 6. | MAIN SPEAKER | LARGE | SMALL/LARGE |
| 7. | LFE/BASS OUT | SWFR (SUB WOOFER) | MAIN/SWFR/BOTH |
| 8. | INPUT MODE (TV/DBS) | AUTO | AUTO/LAST |

● PRESET STATIONS

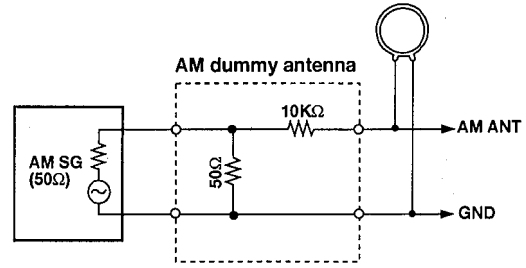
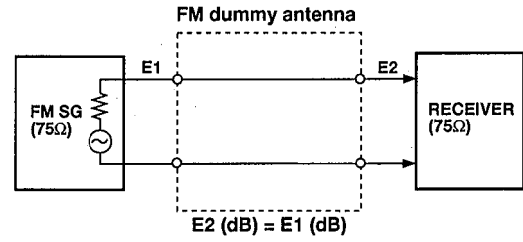
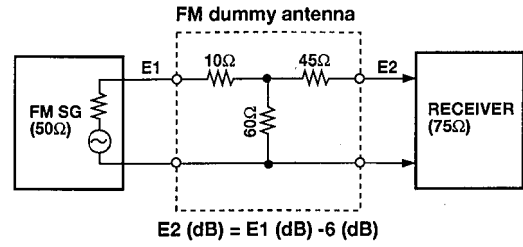
| STATION | | FM FACTORY PRESET DATA (MHz) | | | STATION | | AM FACTORY PRESET DATA (kHz) | |
|---------|-----|------------------------------|---------------|------|---------|-----|------------------------------|------------------|
| PAGE | NO. | U, C, R | R, L, G, A, B | J | PAGE | NO. | U, C, R | R, L, G, A, B, J |
| A/C/E | 1 | 87.5 | 87.5 | 76.0 | B/D | 1 | 630 | 630 |
| | 2 | 90.1 | 90.1 | 83.0 | | 2 | 1080 | 1080 |
| | 3 | 95.1 | 95.1 | 84.0 | | 3 | 1440 | 1440 |
| | 4 | 98.1 | 98.1 | 86.0 | | 4 | 530 | 531 |
| | 5 | 107.9 | 108.0 | 90.0 | | 5 | 1710 | 1611 |
| | 6 | 88.1 | 88.1 | 78.0 | | 6 | 900 | 900 |
| | 7 | 106.1 | 106.1 | 88.0 | | 7 | 1350 | 1350 |
| | 8 | 107.9 | 108.0 | 82.1 | | 8 | 1400 | 1404 |

TUNER ADJUSTMENTS

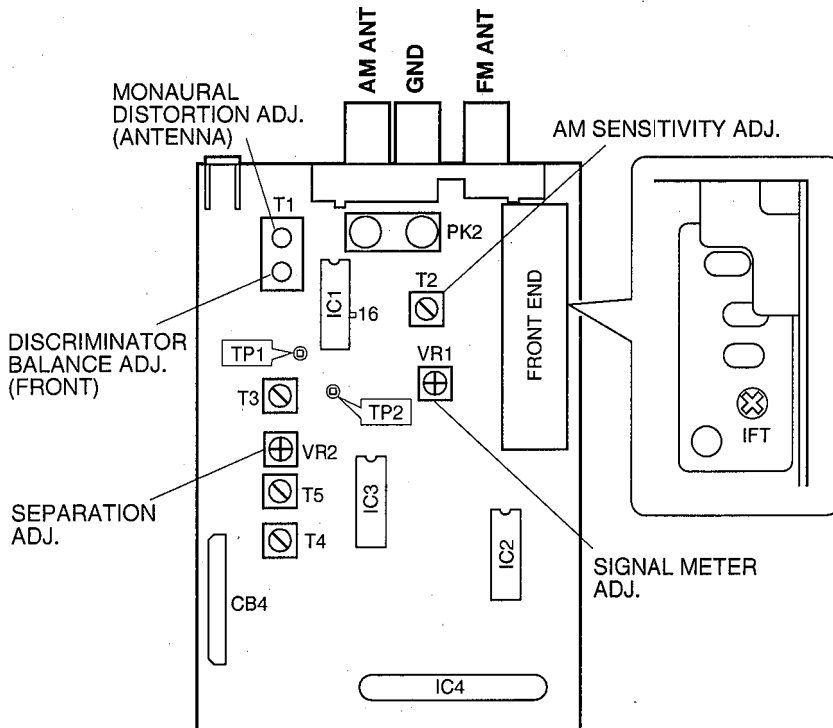
Measuring Instruments

- FM signal generator (FM SG)
- Stereo signal generator (SSG)
- AM signal generator (AM SG)
- Distortion meter (DIST. M)
- AC voltmeter (ACVM)
- DC voltmeter (DCVM)
- Oscilloscope
- Low pass filter (YLF-15, $f_c=15\text{kHz}$)
- Oscillator

Dummy antenna



Test point



FM Adjustment

● **Before Adjustment**

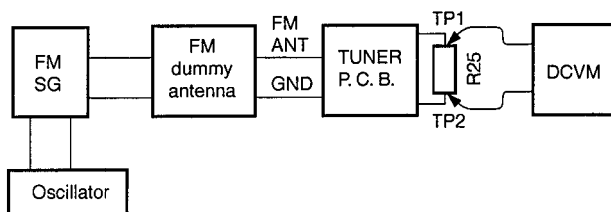
- 1) For dB, $1\mu V=0dB\mu$
Example : $60dB\mu=1mV$
- 2) 100% modulation means that the frequency deviation is $\pm 75kHz$.

- 3) Install the Matching Transformer and connect FM SG.
- 4) Set each switch to the following position unless otherwise specified.

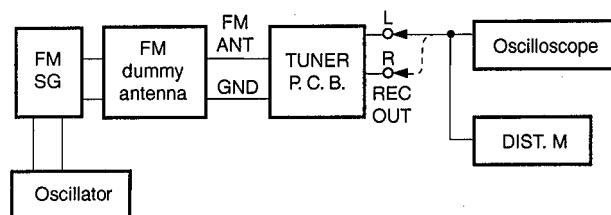
INPUT SELECTOR TUNER
 TUNING MODE AUTO

● **Connection diagram (Measuring instruments)**

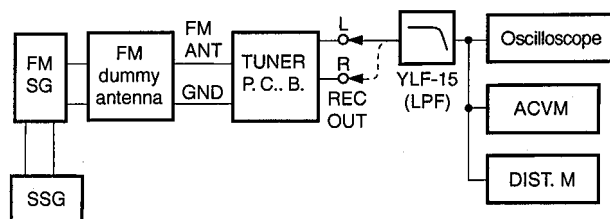
1) **Discriminator balance adjustment**



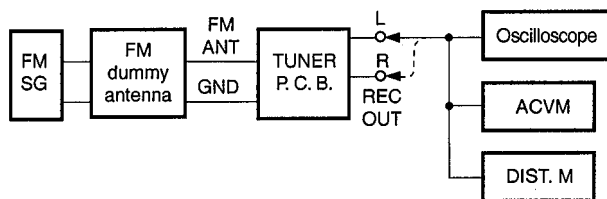
2) **Monaural distortion adjustment**



3) **Stereo distortion adjustment/separation adjustment**



4) **Sensitivity Verification**



| Step | Adjustment item | Signal (ANT IN) | Reception frequency | Adjustment point | Test point | Rating |
|------|---|---|---------------------|---------------------------|---|---|
| 1 | Rough adjustment of discriminator balance | FM ANT (75Ω) 98.1MHz ** 70dBμ MONO 1kHz 100% modulation | 98.1MHz * (A-4) | T1 (Front side core) | Both ends of R25 (Between TP1 and TP2) | DC 0V±100mV |
| 2 | Rough adjustment of monaural distortion | Same as Step 1. | 98.1MHz * (A-4) | T1 (Antenna side core) | REC OUT L, R | Minimize the distortion. |
| 3 | Fine adjustment of discriminator balance | Same as Step 1. | 98.1MHz * (A-4) | T1 (Front side core) | Both ends of R25 (Between TP1 and TP2) | DC 0V±50mV |
| 4 | Fine adjustment of monaural distortion | Same as Step 1. | 98.1MHz * (A-4) | T1 (Antenna side core) | REC OUT L, R | Minimize the distortion (to 0.25% or less). |
| 5 | Verification of discriminator balance | Same as Step 1. | 98.1MHz * (A-4) | T1 (Front side core) | Both ends of R25 (Between TP1 and TP2) | DC 0V±50mV |

* : Execution of FACTORY PRESET (Refer to page 16.) will facilitate setting reception frequency for adjustment.

** Must be 98.1MHz ± 5kHz

See page 25 for TP locations & adjustment points.

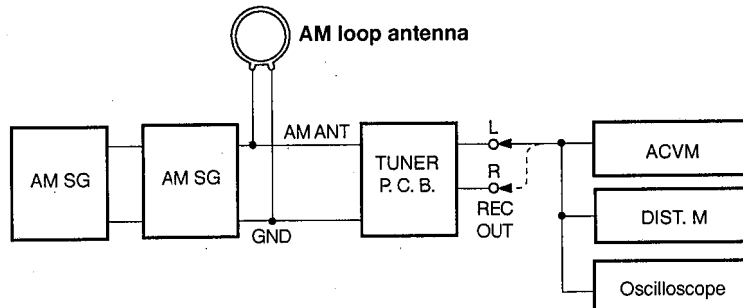
| Step | Adjustment item | Signal (ANT IN) | Reception frequency | Adjusted point | Test point | Rating |
|------|-------------------------------------|---|---|----------------|---------------|--|
| 6 | Adjustment of front end IFT | FM ANT (75Ω) 98.1MHz 30dBμ MONO 1kHz, 100% modulation | 98.1MHz * (A-4) | Front end IFT | Pin 16 of IC1 | Adjust so that the DC voltage is maximum. CAUTION : Over-adjustment of the IFT core will reduce the sensitivity. Maximum ±90° |
| 7 | Verification of monaural distortion | FM ANT (75Ω) 98.1MHz 70dBμ MONO 1kHz, 100% modulation | 98.1MHz * (A-4) | | REC OUT L, R | 0.4% or less |
| 8 | Verification of stereo distortion | FM ANT (75Ω) 98.1MHz 70dBμ Stereo L or R 1kHz, 100% modulation | 98.1MHz * (A-4) *Tuning mode should be AUTO. | | REC OUT L, R | 1% or less • STEREO indicator should light. |
| 9 | Verification of sensitivity | FM ANT (75Ω) 88.1MHz 98.1MHz 106.1MHz MONO 1kHz Modulation off | 88.1MHz * (A-6) 98.1MHz * (A-4) 106.1MHz * (A-7) | | ANT (75Ω) | 1) Set the tuning mode to MAN'L MONO. (Muting OFF) 2) S/N should be 30dB at each frequency of 88.1MHz, 98.1MHz, and 106.1MHz. 3) Check to ensure that the voltage at the ANT terminal is 3dBμ (14.25dBf) or less. (L only : 6dBμ or less) |
| 10 | Adjustment of Separation | FM ANT (75Ω) 98.1MHz 70dBμ Stereo L or R 1kHz, 100% modulation | 98.1MHz * (A-4) | VR2 | REC OUT L, R | With SSG output at L or R, the signal leakage level at the other channel should be minimized. 36dB or more |
| 11 | Adjustment of Signal meter | FM ANT (75Ω) 98.1MHz 45dBμ MONO 1kHz 30% modulation | 98.1MHz * (A-4) | VR1 | | Adjust so that all segments light. |
| | | -10dBμ or less | | | | Check to ensure that signal meters turn OFF. |
| 12 | Verification of auto tuning | FM ANT (75Ω) 98.1MHz 23dBμ Stereo L or R 1kHz, 30% modulation | 98.1MHz | | | • Automatic reception should be available when the tuning key is moved UP and DOWN. • The stereo indicator should light. • Audio muting should be applied during tuning. |

* : Execution of FACTORY PRESET (Refer to page 16.) will facilitate setting reception frequency for adjustment.

AM Adjustment (This should be done after FM adjustment.)

● **Connection Diagram (Measuring instruments)**

1) Adjustment of sensitivity



See page 25 for TP locations & adjustment points.

| Step | Adjustment item | Signal (ANT IN) | Reception frequency | Adjustment point | Test point | Rating |
|------|--------------------------------------|---|---|------------------|------------|--|
| 1 | Adjustment of sensitivity (1440Hz) | AM ANT 1440kHz 50dB μ 1kHz 30% modulation | 1440kHz * (B-3) | T2 | REC OUT | Audio output should be maximized. |
| 2 | Verification of sensitivity (630kHz) | AM ANT 630kHz 50dB μ 1kHz 30% modulation | 630kHz * (B-1) | T2 | REC OUT | Audio output should be maximized. Repeat the Step 1 and 2. |
| 3 | Verification of sensitivity | AM ANT 630kHz 1080kHz 1440kHz 30% modulation | 630kHz * (B-1) 1080kHz * (B-2) 1440kHz * (B-3) | | AM ANT | Distortion should be 10% or less at each frequency. Check to ensure that the voltage at the ANT terminal is 54dB μ or less. |
| 4 | Verification of auto tuning | AM ANT 60dB μ | | | | Auto reception should be available when the tuning key is moved UP and DOWN. |

* : Execution of FACTORY PRESET (Refer to page 16.) will facilitate setting reception frequency for adjustment.

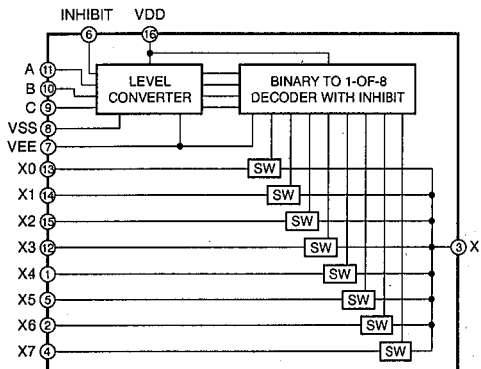
■ IC DATA

IC1 : HD6433614
8 bit μ -COM

RX-V2092

| | | | |
|---------------|----|----|------------|
| PA7 | 1 | 64 | PA6 |
| AVCC | 2 | 63 | PA5 |
| PO0/AN0 | 3 | 62 | PA4 |
| PO1/AN1 | 4 | 61 | PA3 |
| PO2/AN2 | 5 | 60 | PA2 |
| PO3/AN3 | 6 | 59 | PA1 |
| PO4/AN4 | 7 | 58 | PA0 |
| PO5/AN5 | 8 | 57 | P97/UD |
| PO6/AN6 | 9 | 56 | P96/SO2 |
| PO7/AN7 | 10 | 55 | P95/SI2/CS |
| AVSS | 11 | 54 | P94/SCK2 |
| TEST | 12 | 53 | P93/SO1 |
| X2 | 13 | 52 | P92/SI1 |
| X1 | 14 | 51 | P91/SCK1 |
| VSS | 15 | 50 | P90/PWM |
| OSC1 | 16 | 49 | P87 |
| OISC2 | 17 | 48 | P86 |
| RES | 18 | 47 | P85 |
| P10/IRQ0 | 19 | 46 | P84 |
| P11/IRQ1 | 20 | 45 | P83 |
| P12/IRQ2 | 21 | 44 | P82 |
| P13/IRQ3 | 22 | 43 | P81 |
| P14/IRQ4 | 23 | 42 | P80 |
| P15/IRQ5/TMOE | 24 | 41 | VCC |
| P16/EVENT | 25 | 40 | P40 |
| P17 | 26 | 39 | P41 |
| P27 | 27 | 38 | P42 |
| P26 | 28 | 37 | P43 |
| P25 | 29 | 36 | P44 |
| P24 | 30 | 35 | P45 |
| P23 | 31 | 34 | P20 |
| P22 | 32 | 33 | P21 |

IC2 : TC74HC4051AP (extended A/D input)
Analog Multiplexer/Demultiplexer



| INPUT STATES | | | | "ON" CHANNEL (S) |
|--------------|---|---|---|------------------|
| INHIBIT | C | B | A | |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 1 | 0 | 2 |
| 0 | 0 | 1 | 1 | 3 |
| 0 | 1 | 0 | 0 | 4 |
| 0 | 1 | 0 | 1 | 5 |
| 0 | 1 | 1 | 0 | 6 |
| 0 | 1 | 1 | 1 | 7 |
| 1 | X | X | X | NONE |

IC1 : HD6433614
8 bit μ -COM

| No. | PORT | Name | Function | I/O | No. | PORT | Name | Function | I/O |
|-----|-------|-------|---|------|-----|------|-------|---|------|
| 1 | PA7 | /RMT | Mute control of ROOM 2 | O | 64 | PA6 | VRC | VIDEO REC. SEL. control C | O |
| 2 | AVCC | AVCC | Power supply for A/D | +5M | 63 | PA5 | VRB | VIDEO REC. SEL. control B | O |
| 3 | AN0 | 4051 | Extended A/D input | AD | 62 | PA4 | VRA | VIDEO REC. SEL. control A | O |
| 4 | AN1 | PRV | Power supply error detect | AD | 61 | PA3 | VIC | VIDEO INPUT SEL. control C | O |
| 5 | AN2 | PRD | Power amplifier output DC detect | AD | 60 | PA2 | VIB | VIDEO INPUT SEL. control B | O |
| 6 | AN3 | THM | Radiator temperature detect | AD | 59 | PA1 | VIA | VIDEO INPUT SEL. control A | O |
| 7 | AN4 | VER | Model & destination discrimination input | AD | 58 | PA0 | CES | Chip enable for super impose | O |
| 8 | P05 | PRI | Power amplifier excess current detect | I | 57 | P97 | CEL | Chip enable for IC made by SANYO (LC....) | O |
| 9 | P06 | /ST | TUNER stereo detect | I | 56 | SO2 | SDT | Send data to each type of IC | O |
| 10 | P07 | O/C | COAX/OPT detect | I | 55 | SI2 | RDT | Receive data from TUNER | I |
| 11 | AVSS | AVSS | GND for A/D | G | 54 | SCK2 | SCK | Serial clock for each type of IC | O |
| 12 | TEST | TEST | Test terminal (unusable) | G | 53 | SO1 | TXD | Send data to AC3F, HL3 | O |
| 13 | X2 | X2 | Sub-clock (unused) | open | 52 | SI1 | RXD | Receive data from AC3F | I |
| 14 | X1 | X1 | Sub-clock (unused) | +5M | 51 | SCK1 | XCK | Serial clock for AC3F, HL3 | O |
| 15 | VSS | VSS | GND for system | G | 50 | PWM | FAN | PWM output for fan drive | PWM |
| 16 | OSC1 | OSC1 | Ceramic oscillator connected | 8M | 49 | P87 | /CRS | Chip select for HL3 | O |
| 17 | OSC2 | OSC2 | Ceramic oscillator connected | 8M | 48 | P86 | /CS | Chip select for AC3F | O |
| 18 | /RES | /RES | System reset | RES | 47 | P85 | CLD | Chip select for DIR | O |
| 19 | /IRQ0 | PDT | Power detect | IRQ | 46 | P84 | CCK | Serial clock for DIR | O |
| 20 | /IRQ1 | /DER | DIR lock and error detect | IRQ | 45 | P83 | /IC | AC3F, etc. reset | O |
| 21 | /IRQ2 | REM | Remote control light receive signal input | IRQ | 44 | P82 | /ICD | DIR and FL reset | O |
| 22 | /IRQ3 | RM2 | External remote terminal input (unused) | IRQ | 43 | P81 | /TMT | Tuner mute | O |
| 23 | IRQ4 | AC3ER | AC3F error detect | IRQ | 42 | P80 | CET | Chip enable for IC made by TOSHIBA (TC....) | O |
| 24 | /IRQ5 | VSY | Video vertical synchronous input | IRQ | 41 | VCC | VCC | Power supply for system | +5BU |
| 25 | P16 | PSW | Power switch main unit key input | I | 40 | P40 | ASA | Control A of extended A/D 4051 | O |
| 26 | P17 | CDO | Receive data from DIR | I | 39 | P41 | ASB | Control B of extended A/D 4051 | O |
| 27 | P27 | I/E | Video synchronization discrimination output | O | 38 | P42 | ASC | Control C of extended A/D 4051 | O |
| 28 | P26 | PRY | Power relay control | O | 37 | P43 | | GND | G |
| 29 | P25 | SPB | Relay control of main speaker B | O | 36 | P44 | /STBY | Standby discrimination and lighting output | I/O |
| 30 | P24 | SPA | Relay control of main speaker A | O | 35 | P45 | VIND | VOL. LED lighting output | O |
| 31 | P23 | SPE | Relay control of other than SP. A/B | O | 34 | P20 | VUP | VOL.UP control output | O |
| 32 | P22 | /FMT | Full mute control | O | 33 | P21 | VDN | VOL.DOWN control output | O |

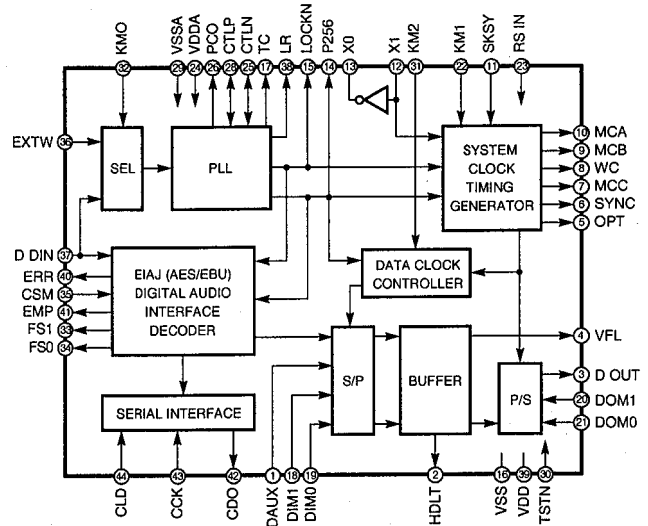
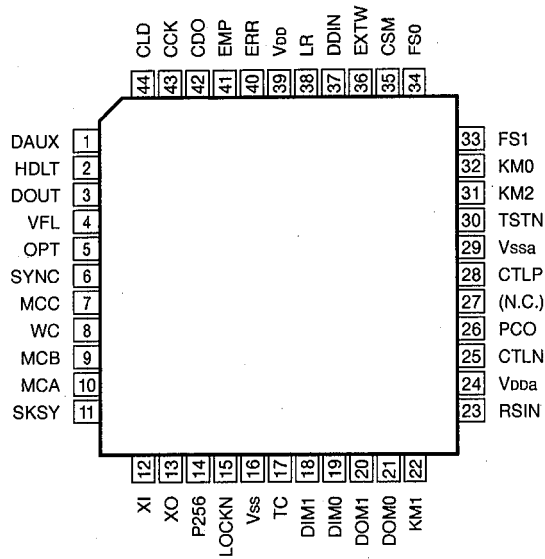
* P40 through P45 are PMOS open drain input/output ports.

IC2 : TC74HC4051AP (extended A/D input)
Analog Multiplexer/Demultiplexer

| No. | PORT | Name | Function | I/O | No. | PORT | Name | Function | I/O |
|-----|------|-------|-----------------------------------|-----|-----|------|------|--------------------------------------|-----|
| 1 | X4 | K4 | DSP & INPUT key input | AD | 16 | VCC | VCC | (+) power supply | +5M |
| 2 | X6 | REC | REC OUT SEL input | AD | 15 | X2 | K2 | SP. A/B & DSP key input | AD |
| 3 | COM | COM | Feed port to microprocessor | O | 14 | X1 | K1 | SP. A/B & PRESET key input | AD |
| 4 | X7 | MTR | TUNER signal meter input (unused) | AD | 13 | X0 | K0 | TUNER & LEVEL key input | AD |
| 5 | X5 | FSW * | Slide SW state input | AD | 12 | X3 | K3 | PRESET & INPUT key input | AD |
| 6 | INH | INH | All channels open at Hi level | G | 11 | A | ASA | Control signal A from microprocessor | I |
| 7 | VEE | VEE | (-) power supply | G | 10 | B | ASB | Control signal B from microprocessor | I |
| 8 | GND | GND | GND | G | 9 | C | ASC | Control signal C from microprocessor | I |

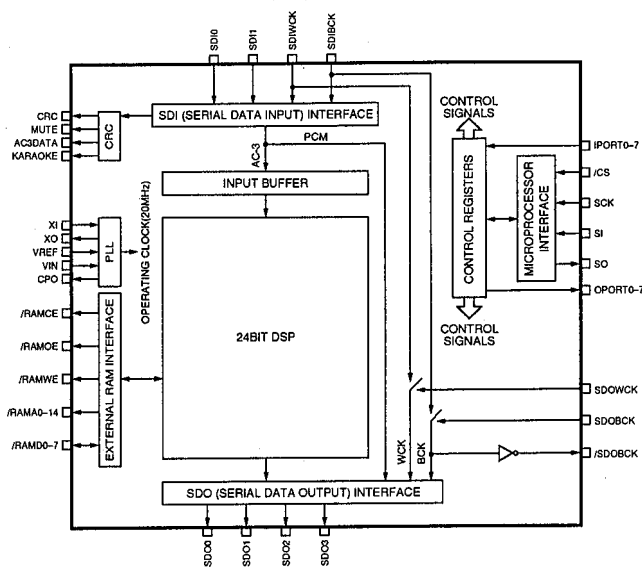
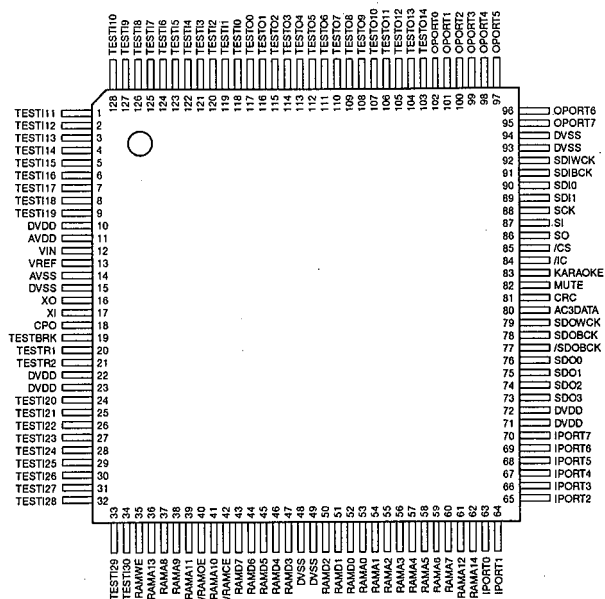
* FSW = DEST(9kHz/10kHz) + P/N + FMX(5ch/7ch)

IC3 : YM3436DK
DIR (Digital Format Interface Receiver)



| Pin No. | Pin Name | I/O | Function | Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|---------|----------|-----|--|
| 1 | DAUX | I | Auxiliary input for audio data | 26 | PCO | O | PLL phase comparison output |
| 2 | HDLT | O | Asynchronous buffer operation flag | 27 | (NC) | | |
| 3 | DOUT | O | Audio data output | 28 | CTLP | I | VCO control input P |
| 4 | VFL | O | Parity flag output | 29 | Vssa | | VCO section power (GND) |
| 5 | OPT | O | Fs x 1 Synchronous output signal for DAC | 30 | TSTN | I | Test terminal. Open for normal use |
| 6 | SYNC | O | Fs x 1 Synchronous output signal for DSP | 31 | KM2 | I | Clock mode switching input 2 |
| 7 | MCC | O | Fs x 64Bit clock output | 32 | KM0 | I | Clock mode switching input 0 |
| 8 | WC | O | Fs x 1Word clock output | 33 | FS1 | O | Channel status sampling frequency display output 1 |
| 9 | MCB | O | Fs x 128Bit clock output | 34 | FS0 | O | Channel status sampling frequency display output 0 |
| 10 | MCA | O | Fs x 256Bit clock output | 35 | CSM | I | Channel status output method selection |
| 11 | SKSY | I | Clock synchronization control input | 36 | EXTW | I | External synchronous auxiliary input word clock |
| 12 | XI | I | Crystal oscillator connection or external clock input | 37 | DDIN | I | EIAJ (AES/EBU) data input |
| 13 | XO | O | Crystal oscillator connection | 38 | LR | O | PLL word clock output |
| 14 | P256 | O | VCO oscillator clock connection | 39 | VDD | | Logic section power (+5V) |
| 15 | LOCKN | O | PLL lock flag | 40 | ERR | O | Data error flag output |
| 16 | Vss | | Logic section power (GND) | 41 | EMP | O | Channel status emphasis control code output |
| 17 | TC | O | PLL time constant switching output | 42 | CDO | O | 3-wire type microcomputer interface data output |
| 18 | DIM1 | I | Data input mode selection | 43 | CCK | I | 3-wire type microcomputer interface clock output |
| 19 | DIM0 | I | Data input mode selection | 44 | CLD | I | 3-wire type microcomputer interface load input |
| 20 | DOM1 | I | Data output mode selection | | | | |
| 21 | DOM0 | I | Data output mode selection | | | | |
| 22 | KM1 | I | Clock mode switching input 1 | | | | |
| 23 | RSTN | I | System reset input | | | | |
| 24 | Vdda | | VCO section power (+5V) | | | | |
| 25 | CTLN | I | VCO control input N | | | | |

IC4 : YSS243B
AC3F (AC-3 5.1ch Full Decoder)



| No. | Name | I/O | Function |
|-----|---------|-----|--|
| 1 | TESTI11 | I+ | LSI test terminal (normally unconnected) |
| 2 | TESTI12 | I+ | LSI test terminal (normally unconnected) |
| 3 | TESTI13 | I+ | LSI test terminal (normally unconnected) |
| 4 | TESTI14 | I+ | LSI test terminal (normally unconnected) |
| 5 | TESTI15 | I+ | LSI test terminal (normally unconnected) |
| 6 | TESTI16 | I+ | LSI test terminal (normally unconnected) |
| 7 | TESTI17 | I+ | LSI test terminal (normally unconnected) |
| 8 | TESTI18 | I+ | LSI test terminal (normally unconnected) |
| 9 | TESTI19 | I+ | LSI test terminal (normally unconnected) |
| 10 | DVDD | | +5V power supply (digital section) |
| 11 | AVDD | | +5V power supply (for analog circuit in PLL section) |
| 12 | VIN | AI | PLL input terminal, connected to CPO through external analog filter) |
| 13 | VREF | AI | PLL input terminal, connected to AVDD through external analog filter) |
| 14 | AVSS | | Ground (for analog circuit in PLL section) |
| 15 | DVSS | | Ground (digital section) |
| 16 | XO | O | Crystal oscillator connecting terminal |
| 17 | XI | I | Crystal oscillator connecting terminal or external clock input terminal (2.5MHz - 40.0MHz) |
| 18 | CPO | AO | PLL output terminal, connected to VIN through external analog filter) |
| 19 | TESTBRK | I+ | LSI test terminal (normally unconnected) |
| 20 | TESTR1 | I+ | LSI test terminal (normally unconnected) |
| 21 | TESTR2 | I+ | LSI test terminal (normally unconnected) |
| 22 | DVDD | | +5V power supply (digital section) |
| 23 | DVDD | | +5V power supply (digital section) |
| 24 | TESTI20 | I+ | LSI test terminal (normally unconnected) |
| 25 | TESTI21 | I+ | LSI test terminal (normally unconnected) |
| 26 | TESTI22 | I+ | LSI test terminal (normally unconnected) |
| 27 | TESTI23 | I+ | LSI test terminal (normally unconnected) |
| 28 | TESTI24 | I+ | LSI test terminal (normally unconnected) |
| 29 | TESTI25 | I+ | LSI test terminal (normally unconnected) |
| 30 | TESTI26 | I+ | LSI test terminal (normally unconnected) |

IC4 : YSS243B
AC3F (AC-3 5.1ch Full Decoder)

| No. | Name | I/O | Function |
|-----|---------|-----|--|
| 31 | TESTI27 | I+ | LSI test terminal (normally unconnected) |
| 32 | TESTI28 | I+ | LSI test terminal (normally unconnected) |
| 33 | TESTI29 | I+ | LSI test terminal (normally unconnected) |
| 34 | TESTI30 | I+ | LSI test terminal (normally unconnected) |
| 35 | /RAMWE | O | External SRAM write enable signal, "L" active |
| 36 | RAMA13 | O | External SRAM address output, address 13 |
| 37 | RAMA8 | O | External SRAM address output, address 8 |
| 38 | RAMA9 | O | External SRAM address output, address 9 |
| 39 | RAMA11 | O | External SRAM address output, address 11 |
| 40 | /RAMOE | O | External SRAM output enable signal, "L" active |
| 41 | RAMA10 | O | External SRAM address output, address 10 |
| 42 | /RAMCE | O | External SRAM chip enable signal, "L" active |
| 43 | RAMD7 | I/O | External SRAM data terminal, data bus 7 |
| 44 | RAMD6 | I/O | External SRAM data terminal, data bus 6 |
| 45 | RAMD5 | I/O | External SRAM data terminal, data bus 5 |
| 46 | RAMD4 | I/O | External SRAM data terminal, data bus 4 |
| 47 | RAMD3 | I/O | External SRAM data terminal, data bus 3 |
| 48 | DVSS | | Ground (digital section) |
| 49 | DVSS | | Ground (digital section) |
| 50 | RAMD2 | I/O | External SRAM data terminal, data bus 2 |
| 51 | RAMD1 | I/O | External SRAM data terminal, data bus 1 |
| 52 | RAMD0 | I/O | External SRAM data terminal, data bus 0 |
| 53 | RAMA0 | O | External SRAM address output, address 0 |
| 54 | RAMA1 | O | External SRAM address output, address 1 |
| 55 | RAMA2 | O | External SRAM address output, address 2 |
| 56 | RAMA3 | O | External SRAM address output, address 3 |
| 57 | RAMA4 | O | External SRAM address output, address 4 |
| 58 | RAMA5 | O | External SRAM address output, address 5 |
| 59 | RAMA6 | O | External SRAM address output, address 6 |
| 60 | RAMA7 | O | External SRAM address output, address 7 |
| 61 | RAMA12 | O | External SRAM address output, address 12 |
| 62 | RAMA14 | O | External SRAM address output, address 14 |
| 63 | IPORT0 | I+ | DIR sampling frequency input 0 (FS0) |
| 64 | IPORT1 | I+ | DIR sampling frequency input 1 (FS1) |
| 65 | IPORT2 | I+ | General purpose input terminal |
| 66 | IPORT3 | I+ | General purpose input terminal |
| 67 | IPORT4 | I+ | DIR pre-emphasis detect (EMP) |
| 68 | IPORT5 | I+ | General purpose input terminal |
| 69 | IPORT6 | I+ | General purpose input terminal |
| 70 | IPORT7 | I+ | General purpose input terminal |
| 71 | DVDD | | +5V power supply (digital section) |
| 72 | DVDD | | +5V power supply (digital section) |
| 73 | SDO3 | O | PCM output terminal (MIX0, MIX1 output) |
| 74 | SDO2 | O | PCM output terminal (C, LFE output) |
| 75 | SDO1 | O | PCM output terminal (LS, RS output) |
| 76 | SDO0 | O | PCM output terminal (L, R output) |
| 77 | /SDOBCK | O | Inverted signal of SDOBCK output |
| 78 | SDOBCK | I+ | SDO output signal bit clock input terminal |
| 79 | SDOWCK | I+ | SDO output signal word clock input terminal |
| 80 | AC3DATA | O | AC-3 bit stream data detect terminal |
| 81 | CRC | O | CRC error detect terminal (when decoding AC-3 bit stream data) |

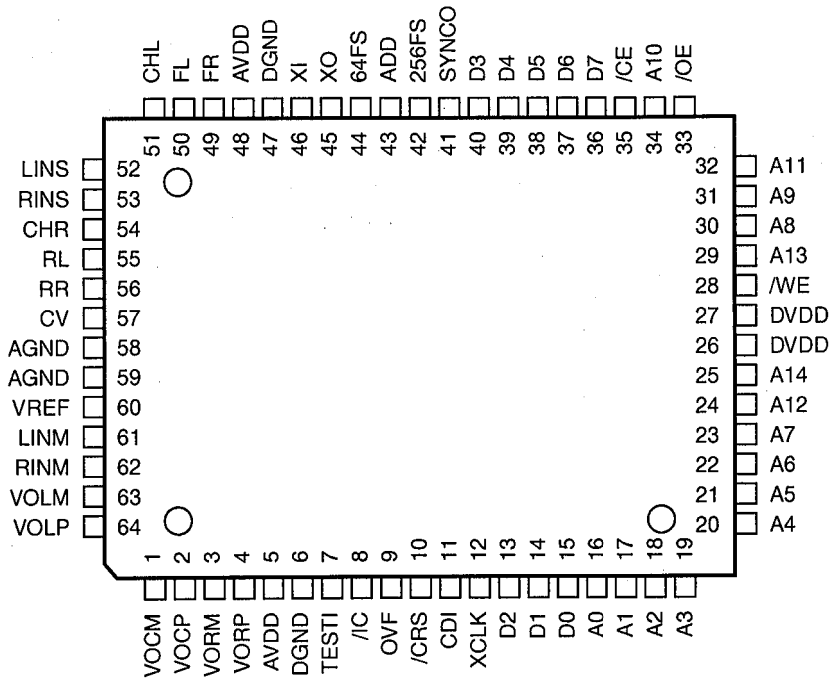
IC4 : YSS243B
AC3F (AC-3 5.1ch Full Decoder)

| No. | Name | I/O | Function |
|-----|---------|-----|--|
| 82 | MUTE | O | Output data mute detect terminal |
| 83 | KARAOKE | O | AC-3 karaoke data detect terminal |
| 84 | /IC | Is | Initial clear terminal |
| 85 | /CS | Is | Microprocessor interface chip select input terminal |
| 86 | SO | O | Microprocessor interface serial data output terminal |
| 87 | SI | Is | Microprocessor interface serial data input terminal |
| 88 | SCK | Is | Microprocessor interface serial clock input terminal |
| 89 | SDI1 | I | AC-3 bit stream (or PCM) data input terminal |
| 90 | SDI0 | I | AC-3 bit stream (or PCM) data input terminal |
| 91 | SDIBCK | I | Bit clock input terminal for SDI input signal |
| 92 | SDIWCK | I | Word clock input terminal for SDI input signal |
| 93 | DVSS | | Ground (digital section) |
| 94 | DVSS | | Ground (digital section) |
| 95 | OPORT7 | O | General purpose output terminal |
| 96 | OPORT6 | O | DIGITAL INPUT SELECTOR control signal B (DIB) |
| 97 | OPORT5 | O | DIGITAL INPUT SELECTOR control signal A (DIA) |
| 98 | OPORT4 | O | Switching DIR forced internal synchronization (KM1) |
| 99 | OPORT3 | O | DAC MUTE control signal (DMT) |
| 100 | OPORT2 | O | De-emphasis control signal 1 to DAC (EMP1) |
| 101 | OPORT1 | O | De-emphasis control signal 0 to DAC (EMP0) |
| 102 | OPORT0 | O | Control signal to switch master clock of AC3F output master clock (CLKS) |
| 103 | TESTO14 | O | LSI test terminal (normally unconnected) |
| 104 | TESTO13 | O | LSI test terminal (normally unconnected) |
| 105 | TESTO12 | O | LSI test terminal (normally unconnected) |
| 106 | TESTO11 | O | LSI test terminal (normally unconnected) |
| 107 | TESTO10 | O | LSI test terminal (normally unconnected) |
| 108 | TESTO9 | O | LSI test terminal (normally unconnected) |
| 109 | TESTO8 | O | LSI test terminal (normally unconnected) |
| 110 | TESTO7 | O | LSI test terminal (normally unconnected) |
| 111 | TESTO6 | O | LSI test terminal (normally unconnected) |
| 112 | TESTO5 | O | LSI test terminal (normally unconnected) |
| 113 | TESTO4 | O | LSI test terminal (normally unconnected) |
| 114 | TESTO3 | O | LSI test terminal (normally unconnected) |
| 115 | TESTO2 | O | LSI test terminal (normally unconnected) |
| 116 | TESTO1 | O | LSI test terminal (normally unconnected) |
| 117 | TESTO0 | O | LSI test terminal (normally unconnected) |
| 118 | TESTI0 | I+ | LSI test terminal (normally unconnected) |
| 119 | TESTI1 | I+ | LSI test terminal (normally unconnected) |
| 120 | TESTI2 | I+ | LSI test terminal (normally unconnected) |
| 121 | TESTI3 | I+ | LSI test terminal (normally unconnected) |
| 122 | TESTI4 | I+ | LSI test terminal (normally unconnected) |
| 123 | TESTI5 | I+ | LSI test terminal (normally unconnected) |
| 124 | TESTI6 | I+ | LSI test terminal (normally unconnected) |
| 125 | TESTI7 | I+ | LSI test terminal (normally unconnected) |
| 126 | TESTI8 | I+ | LSI test terminal (normally unconnected) |
| 127 | TESTI9 | I+ | LSI test terminal (normally unconnected) |
| 128 | TESTI10 | I+ | LSI test terminal (normally unconnected) |

AI : Input AO : Output I+ : Built-in pull up resistance Is : Schmidt input

IC7 : YSS245

HL3 (Dolby-Pro-Logic Decoder + DSP)



| No. | Name | I/O | Function |
|-----|-------|-------------------|---|
| 1 | VOCM | AO | Cch multiplying DAC (-) side output, connected to (-) terminal of Cch operation amplifier |
| 2 | VOCP | AO | Cch multiplying DAC (+) side output, connected to (+) terminal of Cch operation amplifier |
| 3 | VORM | AO | Rch multiplying DAC (-) side output, connected to (-) terminal of Rch operation amplifier |
| 4 | VORP | AO | Rch multiplying DAC (+) side output, connected to (+) terminal of Rch operation amplifier |
| 5 | AVDD | | +5V power supply (analog section) |
| 6 | DGND | | Ground (digital section) |
| 7 | TESTI | Ic | Test terminal, connected to DGND |
| 8 | /IC | Ics | Initial clear terminal |
| 9 | OVF | O | Input (LINS, RINS or ADD) overflow detect terminal |
| 10 | /CRS | I _{ts} | Serial microprocessor interface reset terminal |
| 11 | CDI | I _{ts} | Serial microprocessor interface data input terminal |
| 12 | XCLK | I _{ts} | Serial microprocessor interface clock terminal |
| 13 | D2 | I _t /O | External PSRAM terminal, connected to external PSRAM data terminal |
| 14 | D1 | I _t /O | External PSRAM terminal, connected to external PSRAM data terminal |
| 15 | D0 | I _t /O | External PSRAM terminal, connected to external PSRAM data terminal |
| 16 | A0 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 17 | A1 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 18 | A2 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 19 | A3 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 20 | A4 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 21 | A5 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 22 | A6 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 23 | A7 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 24 | A12 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 25 | A14 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 26 | DVDD | | +5V terminal (digital section) |

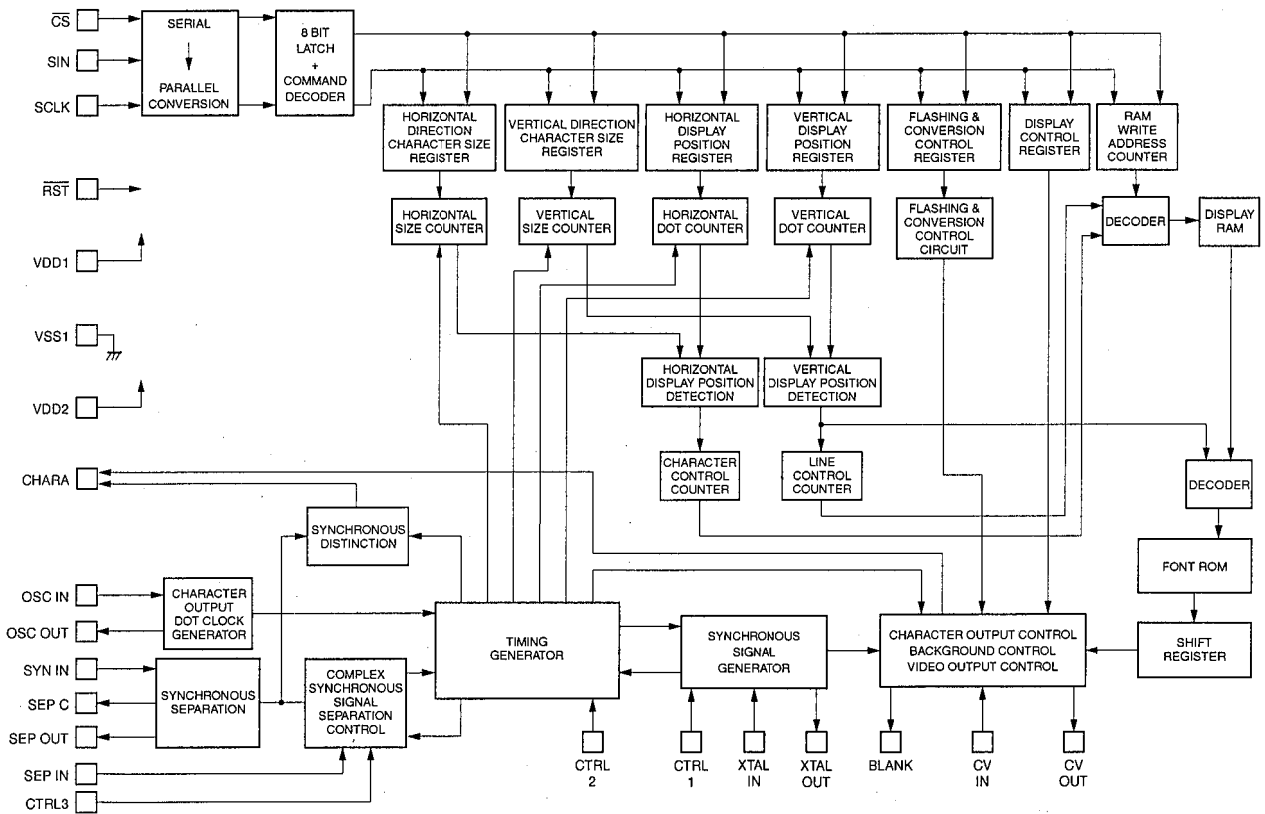
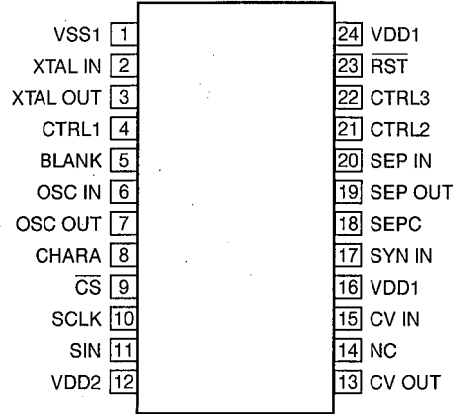
IC7 : YSS245
HL3 (Dolby-Pro-Logic Decoder + DSP)

| No. | Name | I/O | Function |
|-----|-------|------|--|
| 27 | DVDD | | +5V terminal (digital section) |
| 28 | /WE | O | External PSRAM terminal, connected to external PSRAM /WE terminal |
| 29 | A13 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 30 | A8 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 31 | A9 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 32 | A11 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 33 | /OE | O | External PSRAM terminal, connected to external PSRAM /OE terminal |
| 34 | A10 | O | External PSRAM terminal, connected to external PSRAM address terminal |
| 35 | /CE | O | External PSRAM terminal, connected to external PSRAM /CE terminal |
| 36 | D7 | It/O | External PSRAM terminal, connected to external PSRAM data terminal |
| 37 | D6 | It/O | External PSRAM terminal, connected to external PSRAM data terminal |
| 38 | D5 | It/O | External PSRAM terminal, connected to external PSRAM data terminal |
| 39 | D4 | It/O | External PSRAM terminal, connected to external PSRAM data terminal |
| 40 | D3 | It/O | External PSRAM terminal, connected to external PSRAM data terminal |
| 41 | SYNCO | O | fs (word) clock output terminal for external A/D converter |
| 42 | 256FS | O | 256fs clock output terminal for external A/D converter |
| 43 | ADD | It | Data input terminal for external A/D converter |
| 44 | 64FS | O | 64fs clock output terminal for external A/D converter |
| 45 | XO | O | Crystal oscillator connecting terminal |
| 46 | XI | Ic | Crystal oscillator connecting terminal (11.2896MHz) |
| 47 | DGND | | Ground (digital section) |
| 48 | AVDD | | +5V terminal (analog section) |
| 49 | FR | AO | FRch D/A output terminal |
| 50 | FL | AO | FLch D/A output terminal |
| 51 | CHL | AI/O | Capacitor connecting terminal for LINS input sample/hold |
| 52 | LINS | AI | Lch built-in A/D input terminal |
| 53 | RINS | AI | Rch built-in A/D input terminal |
| 54 | CHR | AI/O | Capacitor connecting terminal for RINS input sample/hold |
| 55 | RL | AO | RLch built-in D/A output terminal |
| 56 | RR | AO | RRch built-in D/A output terminal |
| 57 | CV | AO | Built-in A/D, D/A center potential output terminal |
| 58 | AGND | | Ground (analog section) |
| 59 | AGND | | Ground (analog section) |
| 60 | VREF | AI | Built-in multiplying DAC reference potential input terminal |
| 61 | LINM | AI | Lch built-in multiplying DAC input terminal |
| 62 | RINM | AI | Rch built-in multiplying DAC input terminal |
| 63 | VOLM | AO | Lch multiplying DAC (-) side output, connected to Lch operation amplifier (-) terminal |
| 64 | VOLP | AO | Lch multiplying DAC (+) side output, connected to Lch operation amplifier (+) terminal |

Note : Letters used in the above I/O column represent as follows.

- Ic : CMOS level input terminal
- It : TTL level input terminal
- Is : Schmidt trigger input terminal
- O : Digital output terminal
- AI : Analog input terminal
- AO : Analog output terminal

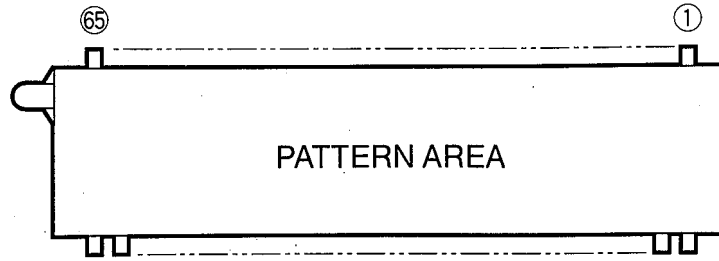
IC611 : LC74781-9626
Superimpose



| Pin No. | Symbol | Terminal name | Function |
|---------|----------|--|--|
| 1 | VSS1 | Ground terminal | Connection to GND (Digital system ground terminal) |
| 2 | XTAL IN | Crystal oscillation terminal | Terminal to connect the crystal of the crystal oscillator for internal synchronous signal generation and a capacitor or to input an external clock. (2fsc or 4fsc) |
| 3 | XTAL OUT | | |
| 4 | CTRL1 | Crystal oscillation input switching terminal | Switching terminal between the mode to input a clock externally and the mode for crystal oscillation. [L] = Crystal oscillation, [H] = External clock input |
| 5 | BLANK | Blank output terminal | Terminal to output the blank signal (character and bordering OR signal) (MOD0 : complex synchronous signal output at [H]). When resetting (RST terminal = [L]), a crystal oscillation clock is output (but not when resetting by the command). |
| 6 | OSC IN | LC oscillation terminal | Terminal to connect the coil of the oscillator for character output dot clock generation and a capacitor. |
| 7 | OSC OUT | | |
| 8 | CHARA | Character output terminal | Terminal to output a character signal (MOD0 : It becomes an output terminal to judge the external synchronous signal at [H] and outputs the result after judging existence of the external synchronous signal. When a synchronous signal exists, [H] is output.) When resetting (RST terminal = [L]), a dot clock (LC oscillation) is output (but it is not output when reset by the command.) |
| 9 | /CS | Enable input terminal | Serial data input enable input terminal. The serial data input becomes enable at [L]. A pull-up resistor is built in (hysteresis input). |
| 10 | SCLK | Clock input terminal | Input terminal of clock for serial data input. A pull-up resistor is built in (hysteresis input). |
| 11 | SIN | Data input terminal | Serial data input terminal. A pull-up resistor is built in (hysteresis input). |
| 12 | VDD2 | Power supply terminal | Power supply terminal for complex image signal level adjustment (Power supply for analog system) |
| 13 | CV OUT | Video signal output terminal | Output terminal for complex image signal. |
| 14 | NC | | Connected to GND or unconnected. |
| 15 | CV IN | Video signal input terminal | Input terminal for complex image signal. |
| 16 | VDD1 | Power supply terminal | Power supply terminal (+5V : power supply for digital system) |
| 17 | SYN IN | Synchronous separation circuit input terminal | Video signal input terminal of the built-in synchronous separation circuit (When the built-in synchronous separation circuit is not used, it becomes a horizontal synchronous signal input or a complex synchronous signal input.) |
| 18 | SEP C | Synchronous separation circuit bias voltage terminal | Terminal to monitor built-in synchronous separation circuit bias voltage. |
| 19 | SEP OUT | Complex synchronous signal output terminal | Terminal to output a complex synchronous signal of built-in synchronous separation circuit ([H] when internally synchronized at MOD1 : [H], [L] output when externally synchronized) (When the built-in synchronous separation circuit is not used, SYNIN input signal is output.) |
| 20 | SEP IN | Vertical synchronous signal input terminal | Terminal to input a vertical synchronous signal by integrating the output signal of SEPOUT terminal. Connect the integration circuit between SEPOUT terminals. Fix it to VDD1 when not used. |
| 21 | CTRL2 | NTSC/PAL-M switching input terminal | Pin setting has a priority over switching of NTSC/PAL/PAL-M/PAL-N method. The NTSC method is selected after [L]= reset. NTSC/PAL/PAL-M/PAL-N method setting by a command is effective. [H] = PAL-M method. |
| 22 | CTRL3 | SEPIN input control terminal | Terminal to control whether or not to input VSYNC signal into SEPIN input terminal. [L] = VSYNC inputted, [H] = VSYNC not inputted. |
| 23 | /RST | Reset input terminal | System reset input terminal. A pull-up resistor is built in (hysteresis input). |
| 24 | VDD1 | Power supply terminal (+5V) | Power supply terminal (+5V : power supply for digital system) |

DISPLAY DATA (VV261900)

● V901 : 15-BT-28GK

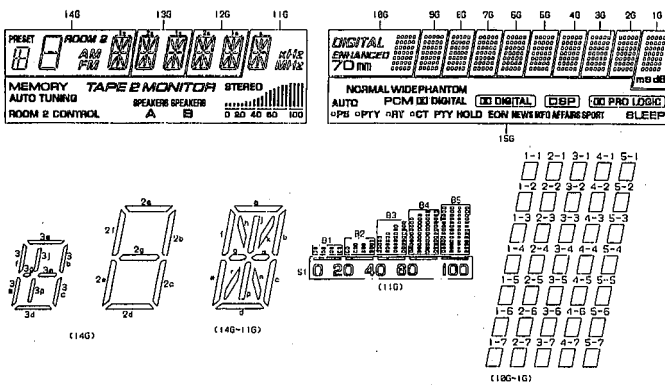


PIN CONNECTION

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pin No. | 65 | 64 | 63 | 62 | 61 | 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 |
| Connection | F2 | F2 | NP | P21 | P20 | P19 | P18 | P17 | P16 | P15 | P14 | P13 | P12 | P11 | P22 | P23 | P24 | P25 | P26 |
| Pin No. | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 |
| Connection | P27 | P28 | P29 | P30 | P31 | P32 | P33 | P34 | P35 | IC | NP | Fd | Fd | Np | IC | P36 | P37 | P38 | P1 |
| Pin No. | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |
| Connection | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | 15G | 14G | 13G | 12G | 11G | 10G | 9G | 8G | 7G | 6G |
| Pin No. | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | | | | |
| Connection | 5G | 4G | 3G | 2G | 1G | NP | F1 | F1 | | | | | | | | | | | |

Note 1) F1, F2 Filament 3) NC No Connection 5) 1G~15G Grid
 2) NP No Pin 4) P1~P38 Datum Line 6) IC Internal connection

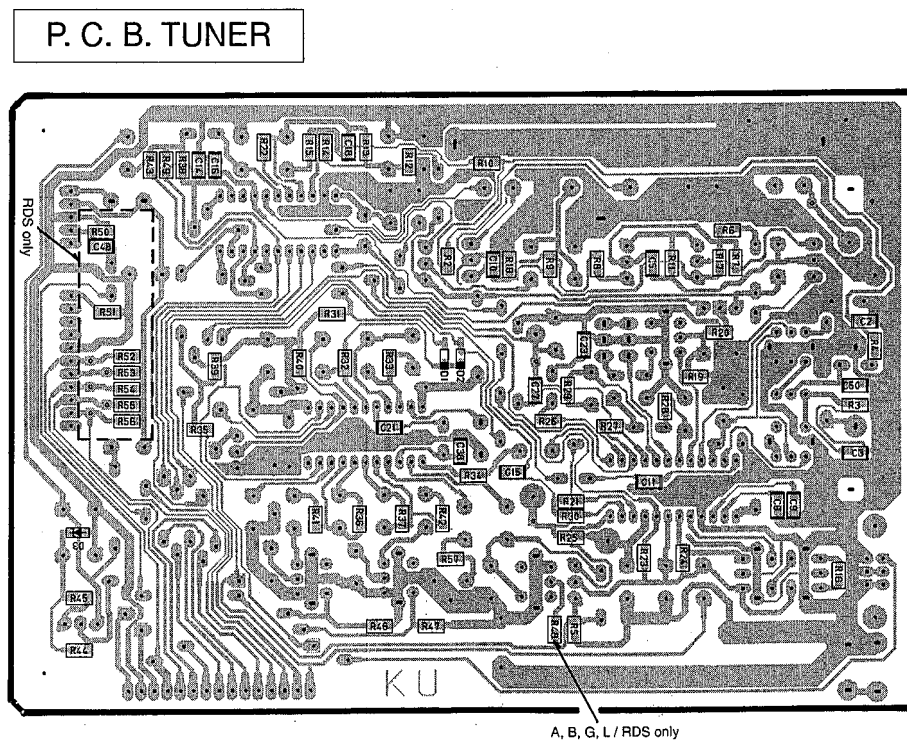
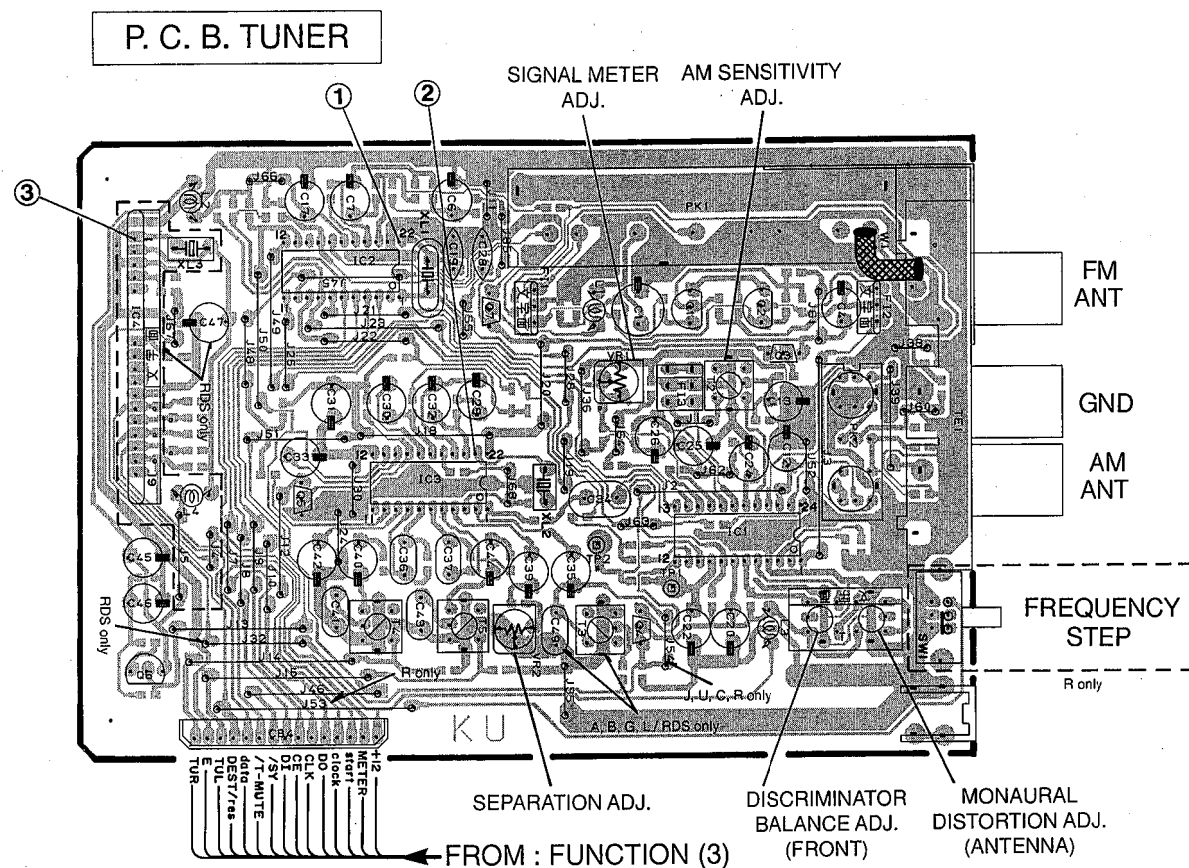
GRID ASSIGNMENT



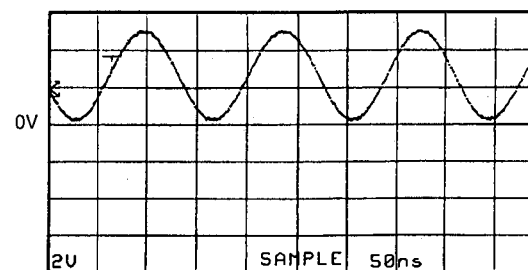
ANODE CONNECTION

| | 15G | 14G | 13G, 12G | 11G | 10G | 9G-2G | 1G |
|-----|-----------|--------|----------|----------------|----------|-------|-----|
| P1 | - | 1a | 1a | a | 1-1 | 1-1 | 1-1 |
| P2 | - | 1h | 1h | h | 2-1 | 2-1 | 2-1 |
| P3 | - | 1j | 1j | j | 3-1 | 3-1 | 3-1 |
| P4 | - | 1k | 1k | k | 4-1 | 4-1 | 4-1 |
| P5 | - | 1b | 1b | b | 5-1 | 5-1 | 5-1 |
| P6 | - | 1f | 1f | f | 1-2 | 1-2 | 1-2 |
| P7 | - | 1m | 1m | m | 2-2 | 2-2 | 2-2 |
| P8 | - | 1g | 1g | g | 3-2 | 3-2 | 3-2 |
| P9 | - | 1c | 1c | c | 4-2 | 4-2 | 4-2 |
| P10 | - | 1e | 1e | e | 5-2 | 5-2 | 5-2 |
| P11 | - | 1n | 1n | n | 1-3 | 1-3 | 1-3 |
| P12 | - | 1p | 1p | p | 2-3 | 2-3 | 2-3 |
| P13 | NORMAL | 1r | 1r | r | 3-3 | 3-3 | 3-3 |
| P14 | WIDE | 1d | 1d | d | 4-3 | 4-3 | 4-3 |
| P15 | PHANTOM | ROOM 2 | 2a | KHz | 5-3 | 5-3 | 5-3 |
| P16 | DIGITAL | AM | 2h | KHz | 1-4 | 1-4 | 1-4 |
| P17 | PCM | FM | 2j | STEREO | 2-4 | 2-4 | 2-4 |
| P18 | DIGITAL | 2a | 2k | B1 | 3-4 | 3-4 | 3-4 |
| P19 | DIGITAL | 2b | 2b | B2 | 4-4 | 4-4 | 4-4 |
| P20 | DSP | 2f | 2f | B3 | 5-4 | 5-4 | 5-4 |
| P21 | PRO LOGIC | 2g | 2m | B4 | 1-5 | 1-5 | 1-5 |
| P22 | AUTO | 2c | 2g | B5 | 2-5 | 2-5 | 2-5 |
| P23 | (PS) | 2e | 2c | S1 | 3-5 | 3-5 | 3-5 |
| P24 | PS | 2d | 2e | TAPE MONITOR | 4-5 | 4-5 | 4-5 |
| P25 | (PTY) | PRESET | 2n | 5-5 | 5-5 | 5-5 | 5-5 |
| P26 | PTY | 3a | 2p | SPEAKERS | 1-6 | 1-6 | 1-6 |
| P27 | (RT) | 3b, 3c | 2r | SPEAKERS | 2-6 | 2-6 | 2-6 |
| P28 | RT | 3d | 2d | MEMORY | 3-6 | 3-6 | 3-6 |
| P29 | (CT) | 3e, 3f | - | AUTO TUNING | 4-6 | 4-6 | 4-6 |
| P30 | CT | 3g | - | ROOM 2 CONTROL | 5-6 | 5-6 | 5-6 |
| P31 | PTY HOLD | 3j, 3p | - | - | 1-7 | 1-7 | 1-7 |
| P32 | EDN | 3m | - | - | 2-7 | 2-7 | 2-7 |
| P33 | NEWS | - | - | - | 3-7 | 3-7 | 3-7 |
| P34 | INFO | - | - | - | 4-7 | 4-7 | 4-7 |
| P35 | AFFAIRS | - | - | - | 5-7 | 5-7 | 5-7 |
| P36 | SPORT | - | - | - | - | - | - |
| P37 | SLEEP | - | - | - | DIGITAL | - | dB |
| P38 | - | - | - | - | ENHANCED | - | ms |
| | | | | | 70mm | - | - |

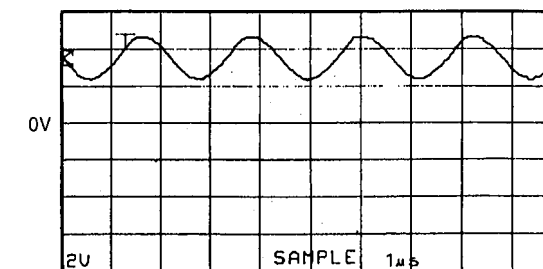
■ PRINTED CIRCUIT BOARD (Foil side)



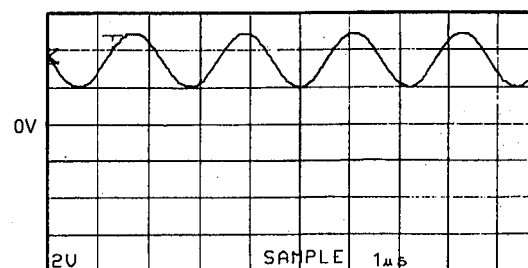
Point ① (Pin22 of IC2) FM reception
 V : 2V/div H : 50nsec/div
 DC range 1 : 1 probe



Point ② (Pin21 of IC3)
 V : 2V/div H : 1μsec/div
 DC range 1 : 1 probe

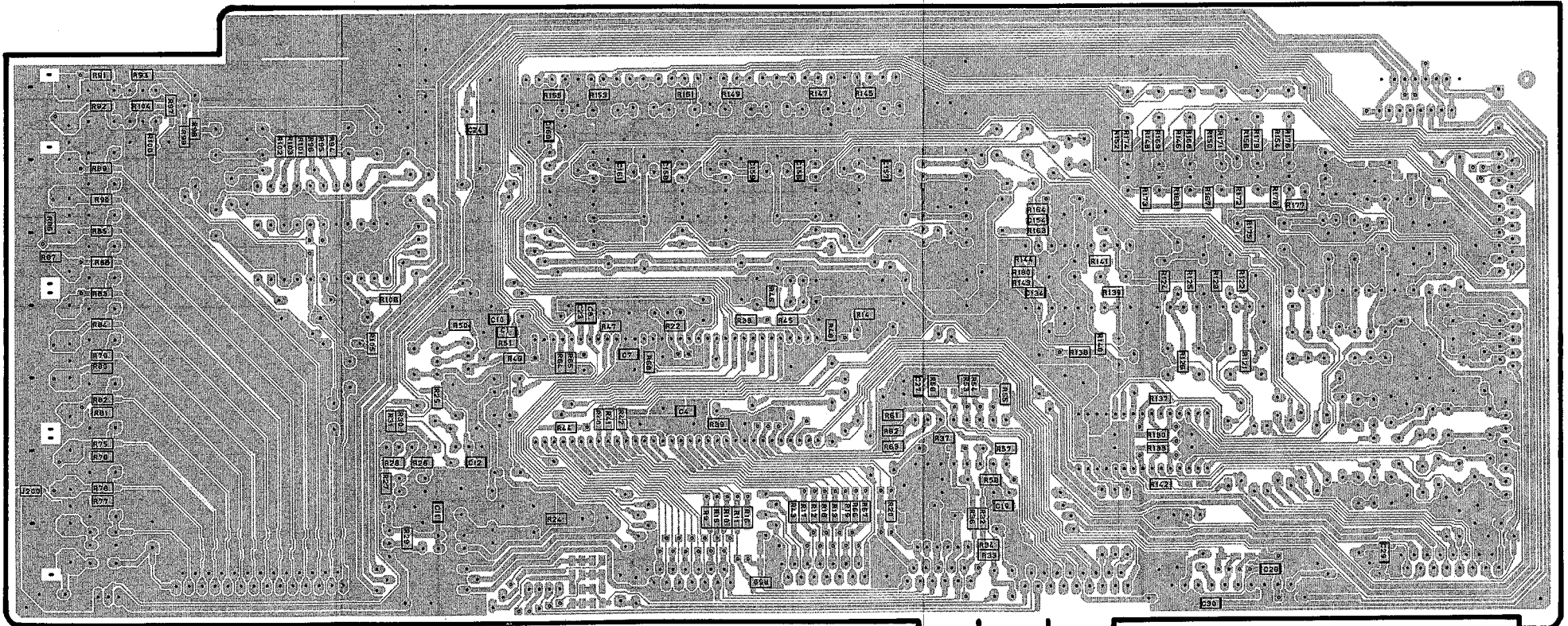
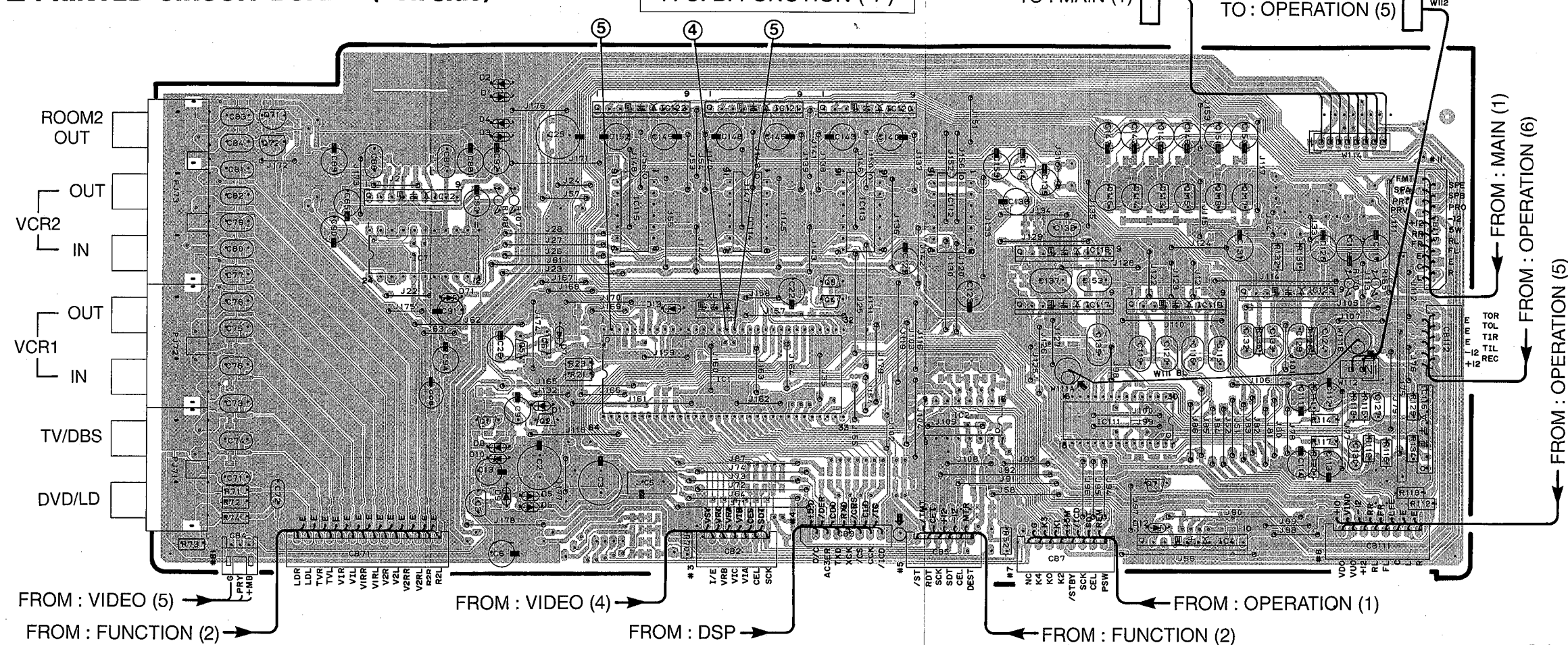


Point ③ (Pin1 of IC4)
 V : 5V/div H : 1 μsec/div
 DC range 1 : 1 probe

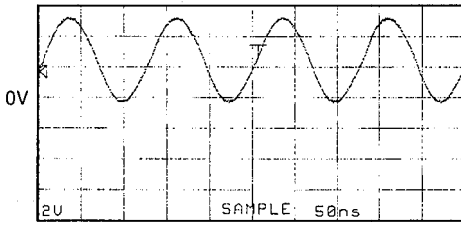


PRINTED CIRCUIT BOARD (Foil side)

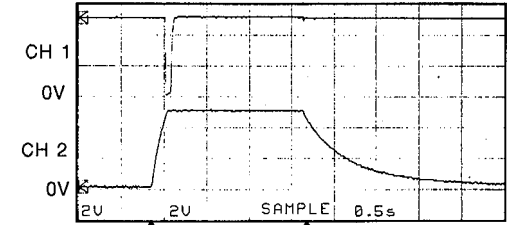
P. C. B. FUNCTION (1)



Point ④ (Pin17 of IC1)
 V : 2V/div H : 50 nsec/div
 DC range 1 : 1 probe



Point ⑤
 CH1 : Pin18 of IC1 V : 2V/div (CH1)
 CH2 : Pin2 of IC1 V : 2V/div (CH2)
 H : 0.5 sec/div DC range 1 : 1 probe
 (This waveform is not available by pushing the power switch ON and OFF.)

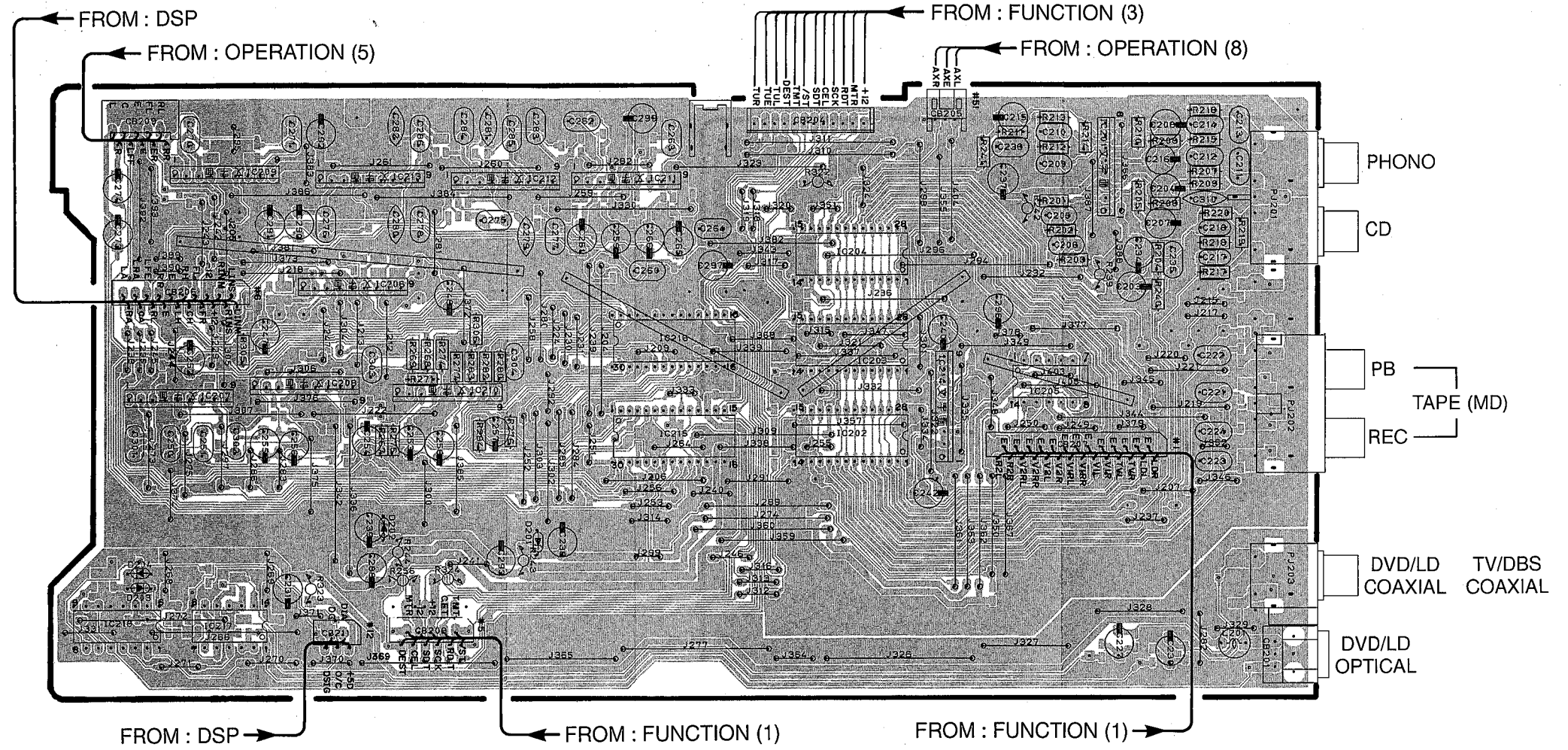


With the POWER ON, disconnect the A/C power cord. Reconnect the A/C power cord and the above waveforms will start. Disconnect the power cord from the AC outlet.

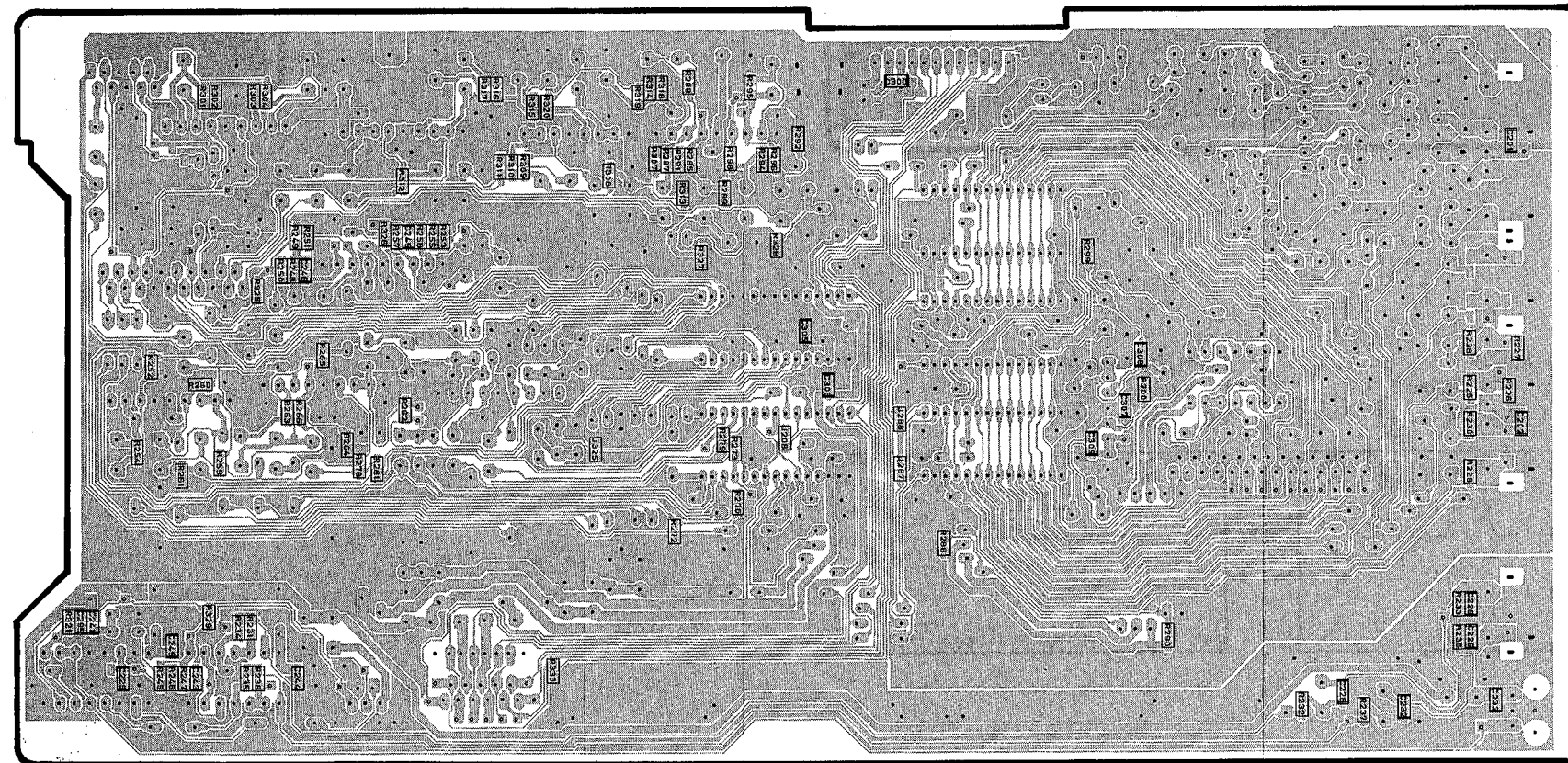
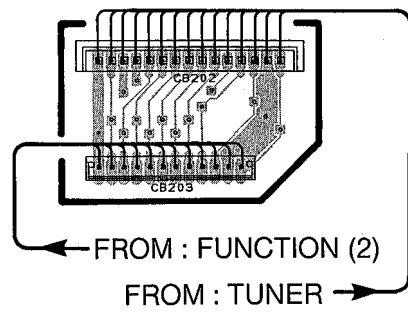
1
2
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PRINTED CIRCUIT BOARD (Foil side)

P. C. B. FUNCTION (2)



P. C. B. FUNCTION (3)



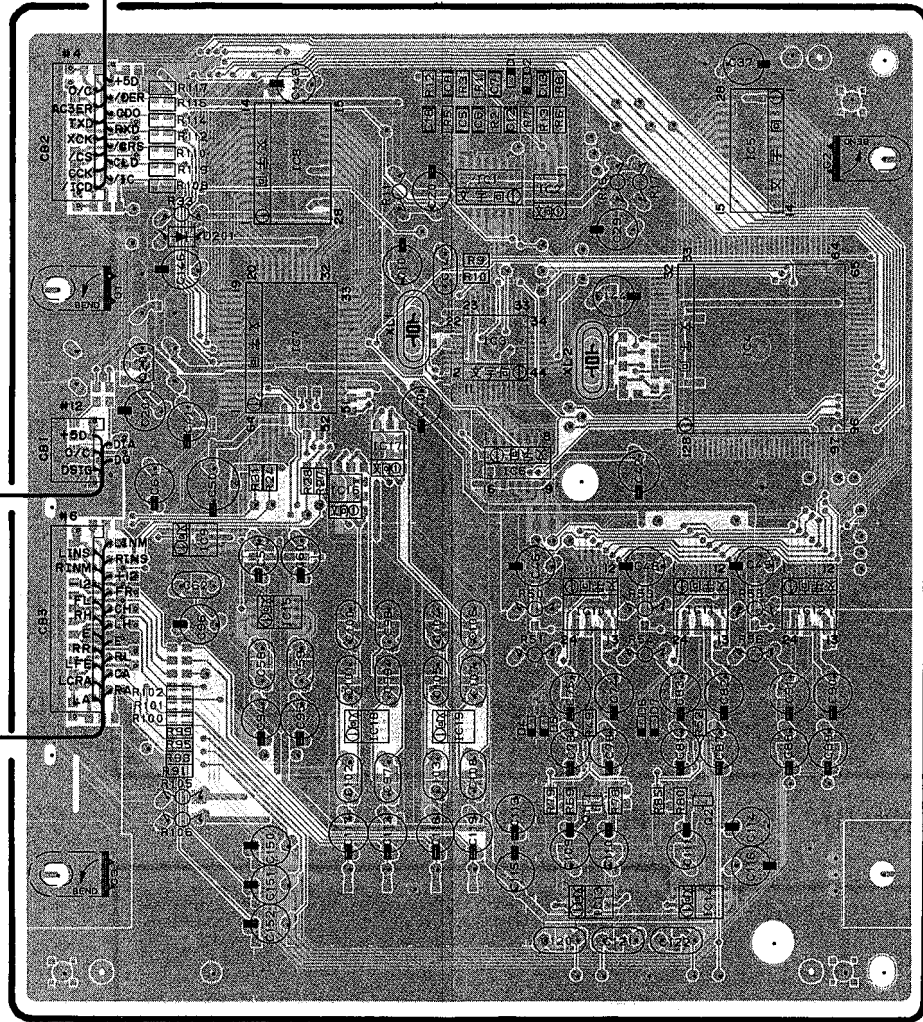
RX-V2092

■ PRINTED CIRCUIT BOARD (Foil side)

P. C. B. DSP

← FROM : FUNCTION (1)

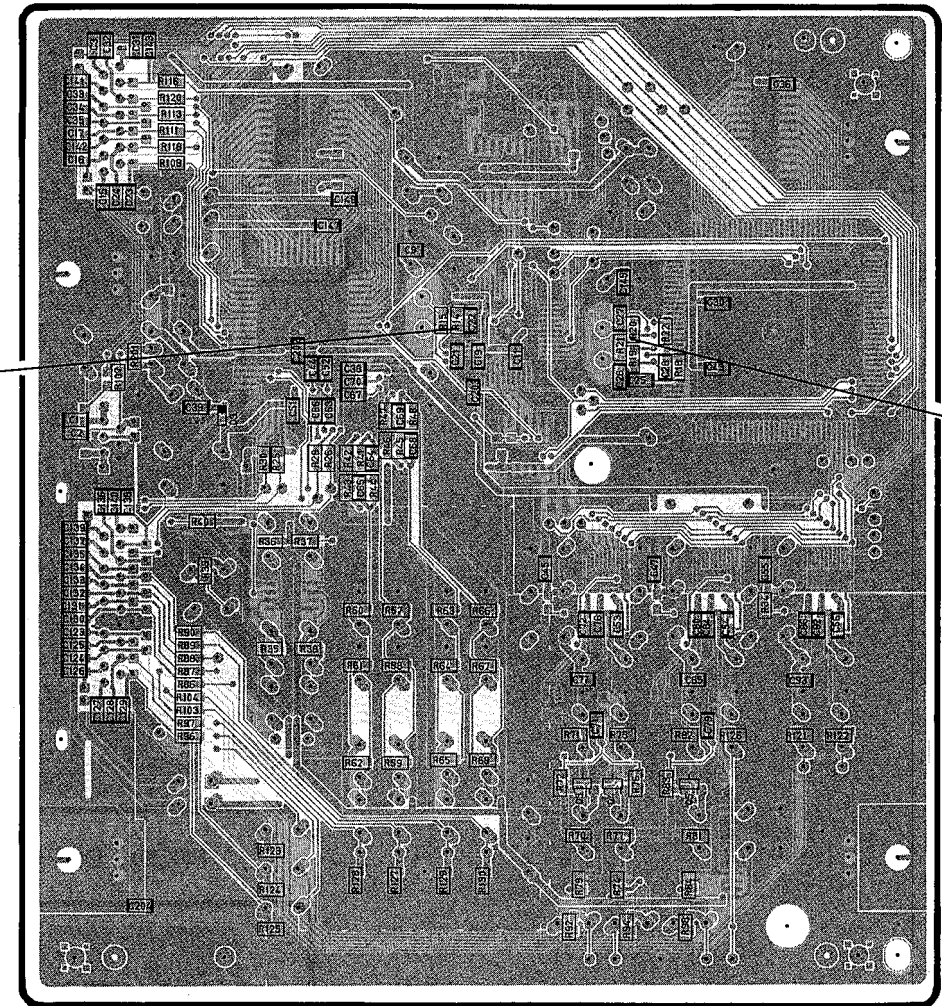
← FROM : FUNCTION (2)



P. C. B. DSP

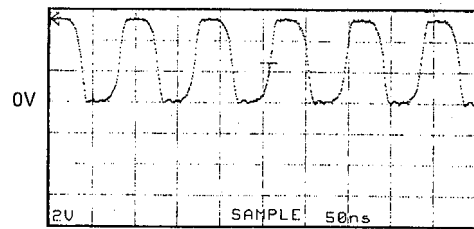
⑥

⑦



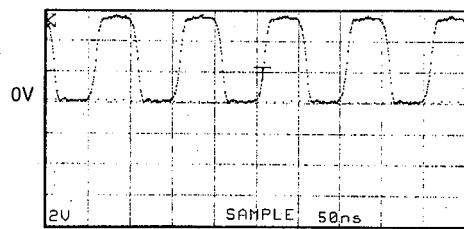
Point ⑥ (Pin13 of IC3)

V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



Point ⑦ (Pin16 of IC4)

V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



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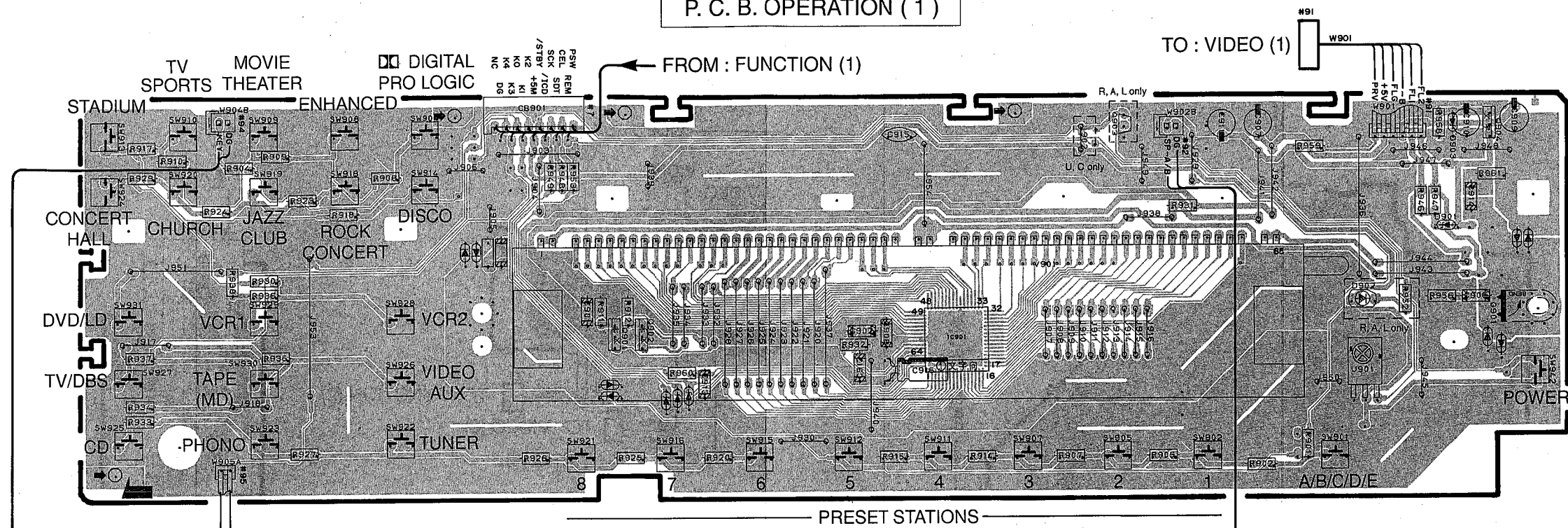
4

5

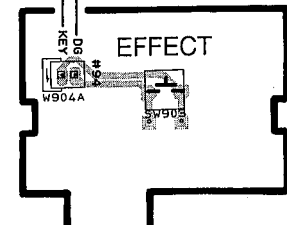
6

PRINTED CIRCUIT BOARD (Foil side)

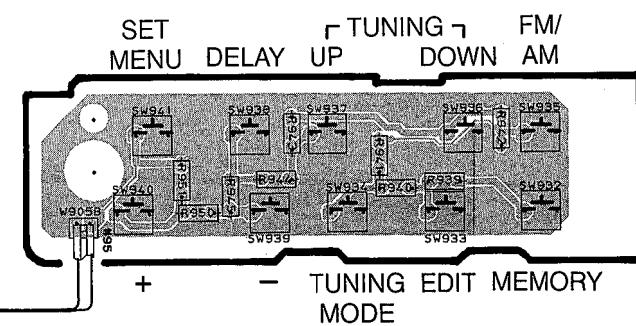
P. C. B. OPERATION (1)



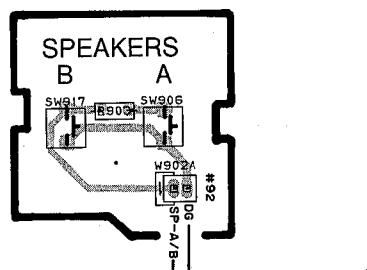
P. C. B. OPERATION (3)



P. C. B. OPERATION (2)



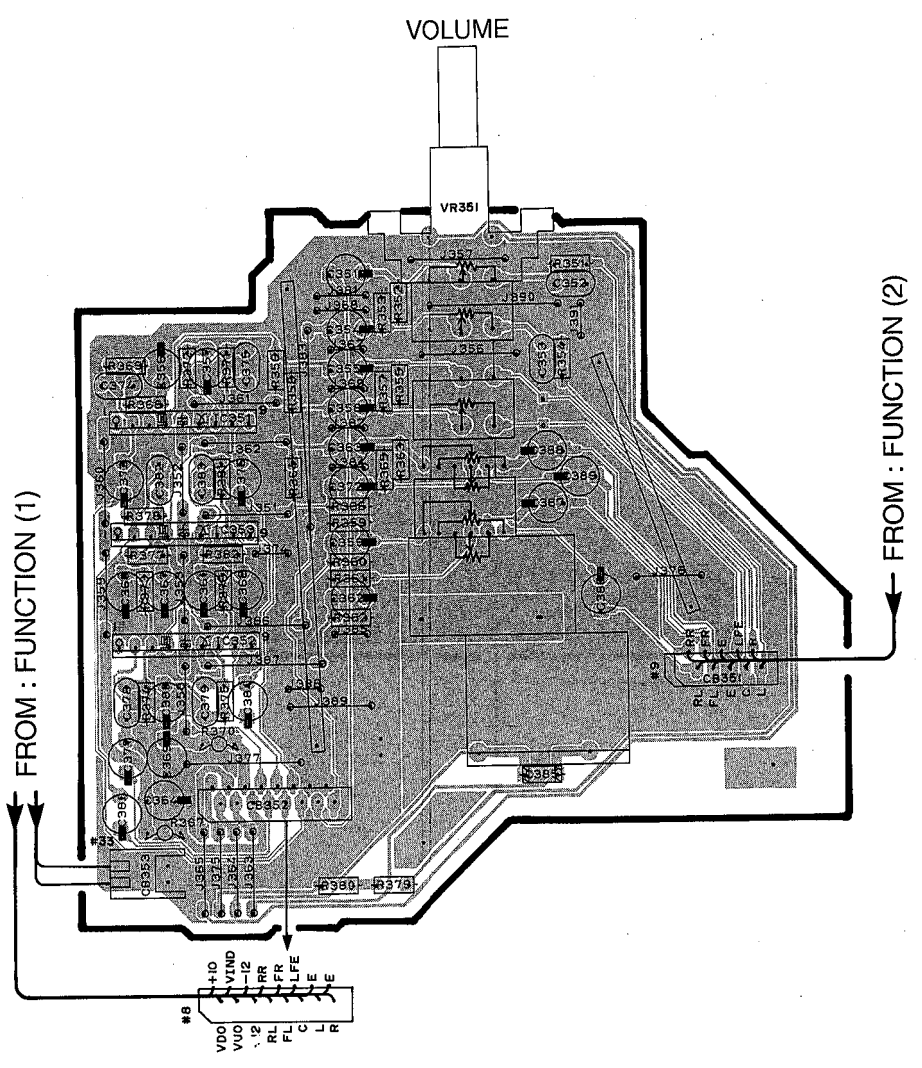
P. C. B. OPERATION (4)



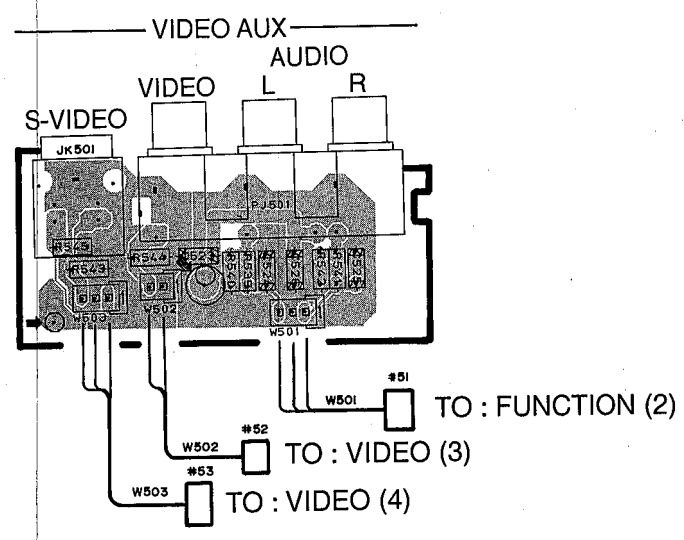
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PRINTED CIRCUIT BOARD (Foil side)

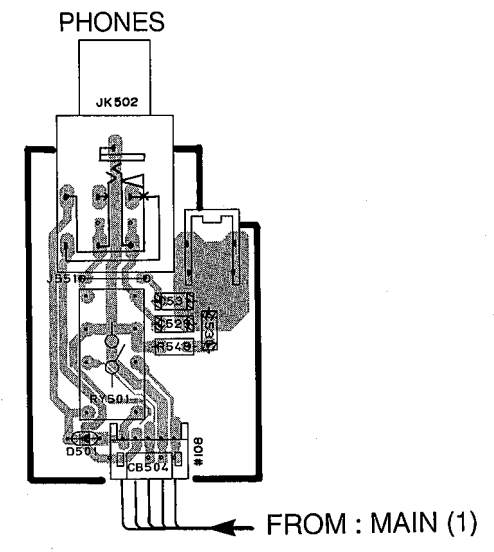
P. C. B. OPERATION (5)



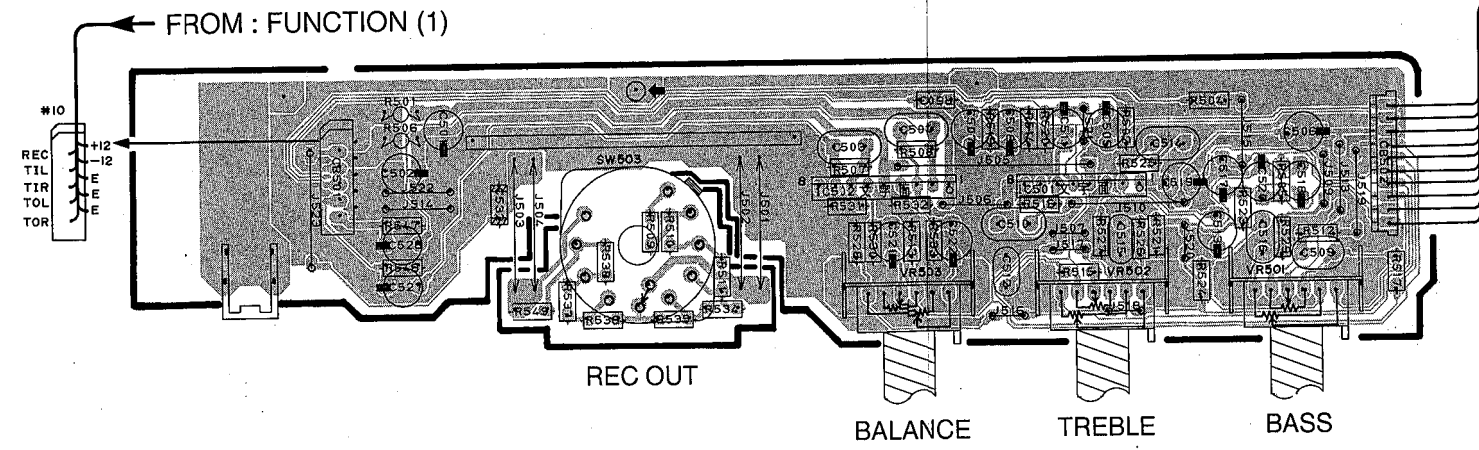
P. C. B. OPERATION (8)



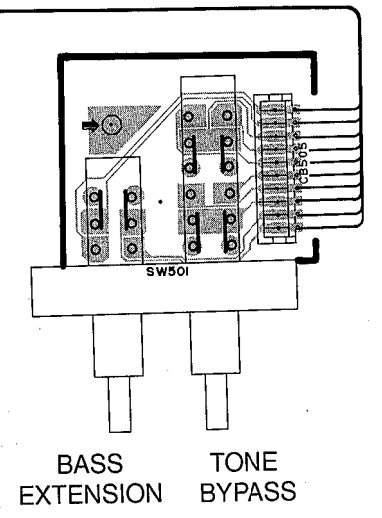
P. C. B. OPERATION (9)



P. C. B. OPERATION (6)



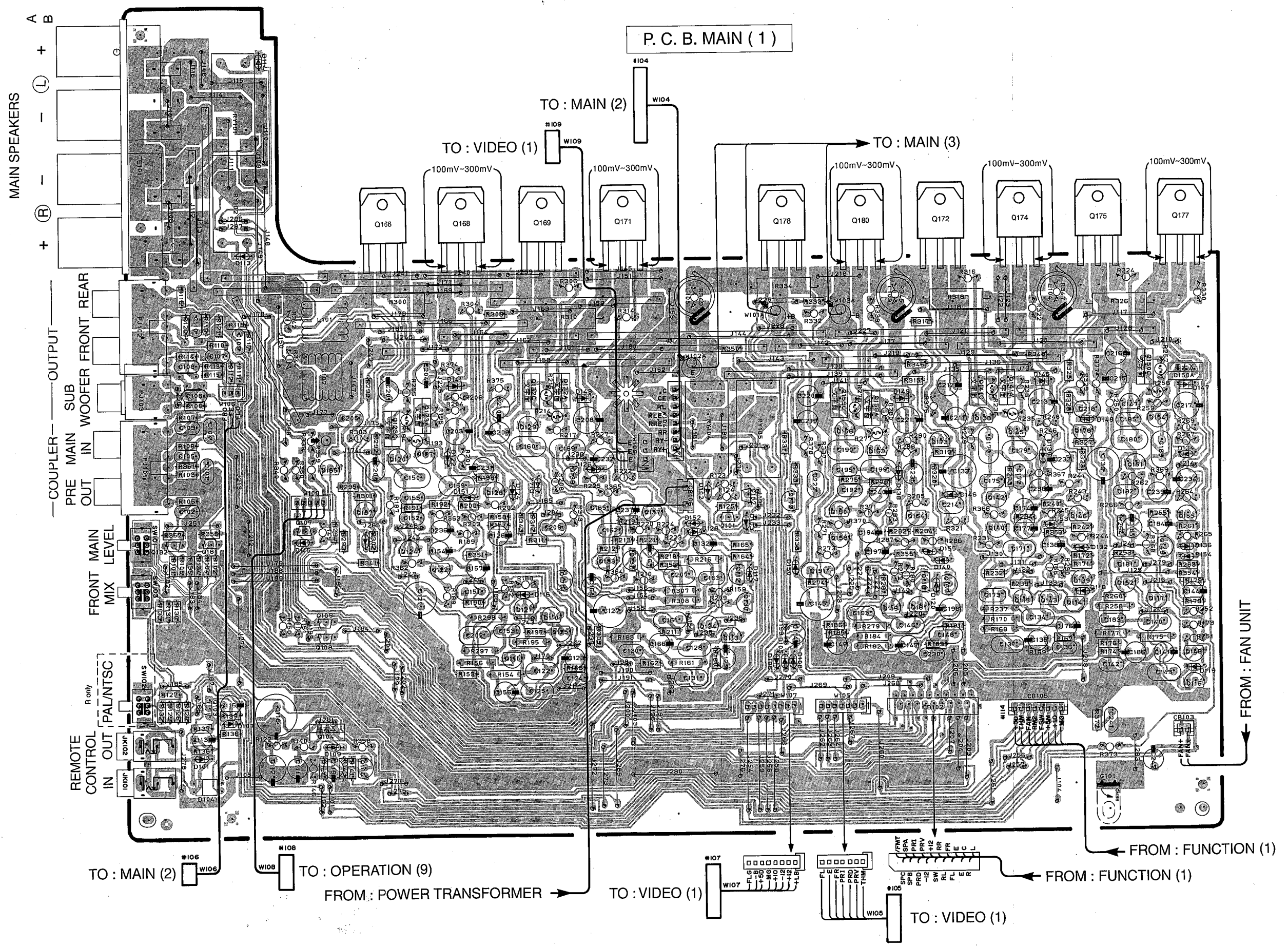
P. C. B. OPERATION (7)



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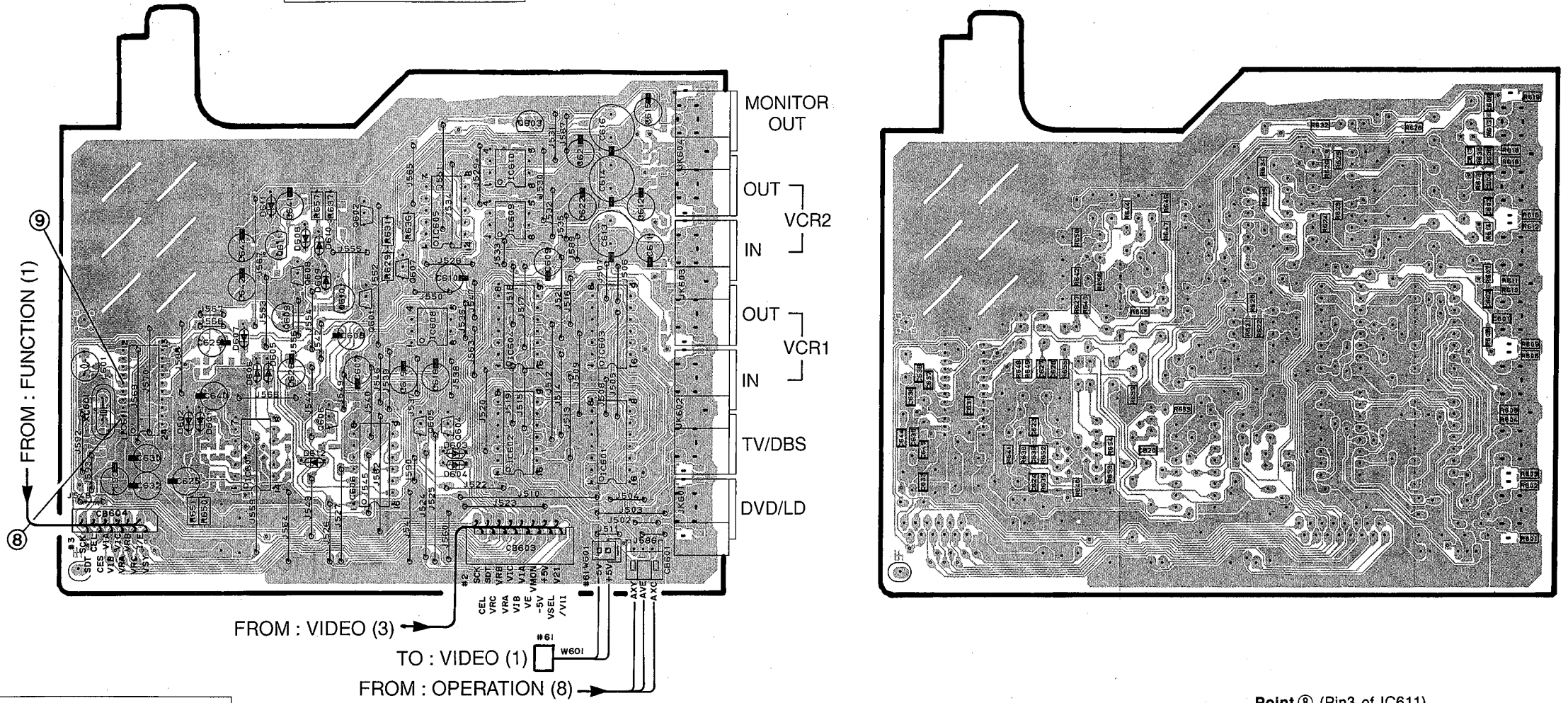
■ PRINTED CIRCUIT BOARD (Foil side)

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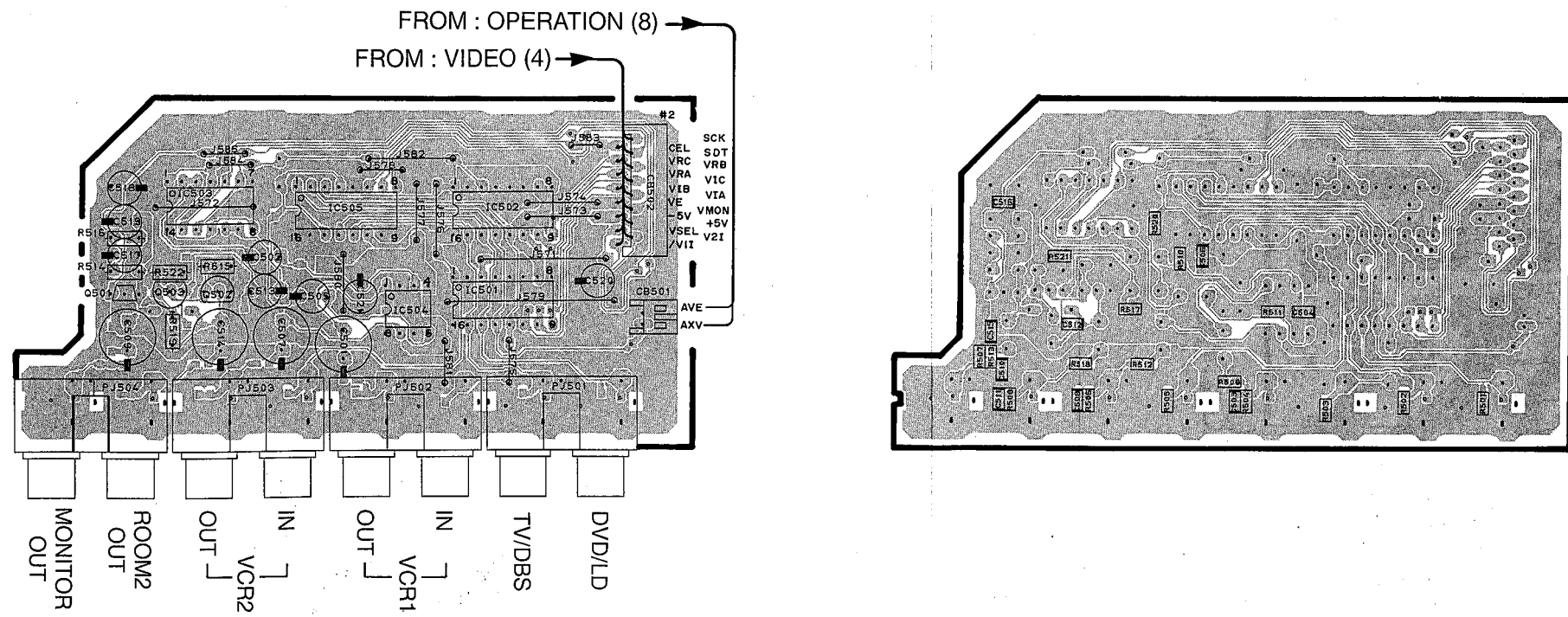


PRINTED CIRCUIT BOARD (Foil side)

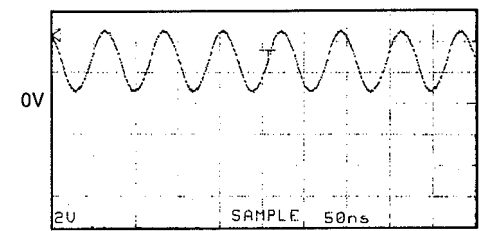
P. C. B. VIDEO (4)



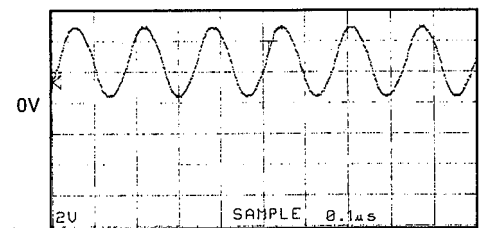
P. C. B. VIDEO (3)



Point ⑧ (Pin3 of IC611)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



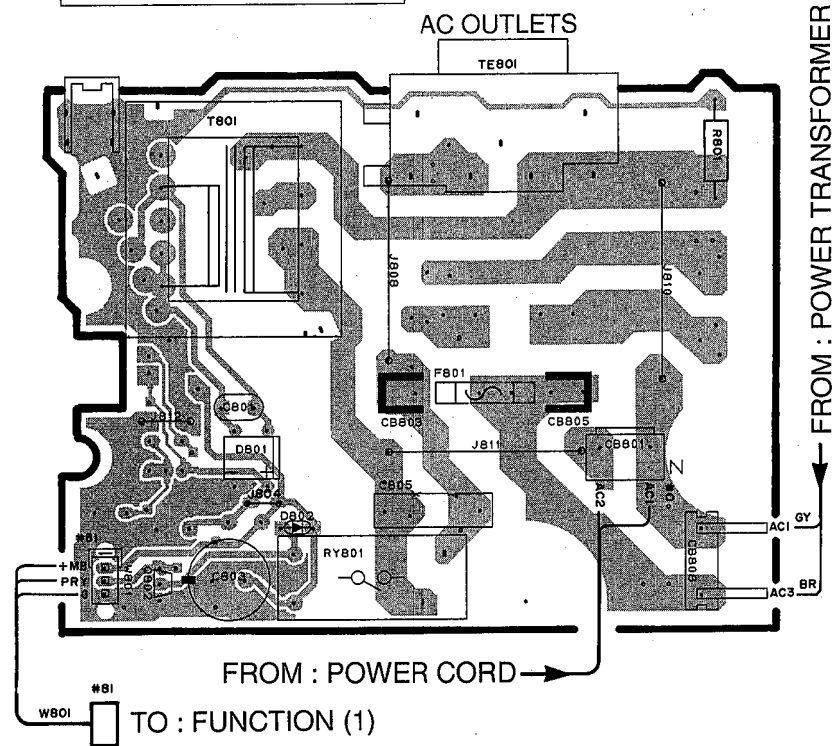
Point ⑨ (Pin7 of IC611)
V : 2V/div H : 0.1 μsec/div
DC range 1 : 1 probe



PRINTED CIRCUIT BOARD (Foil side)

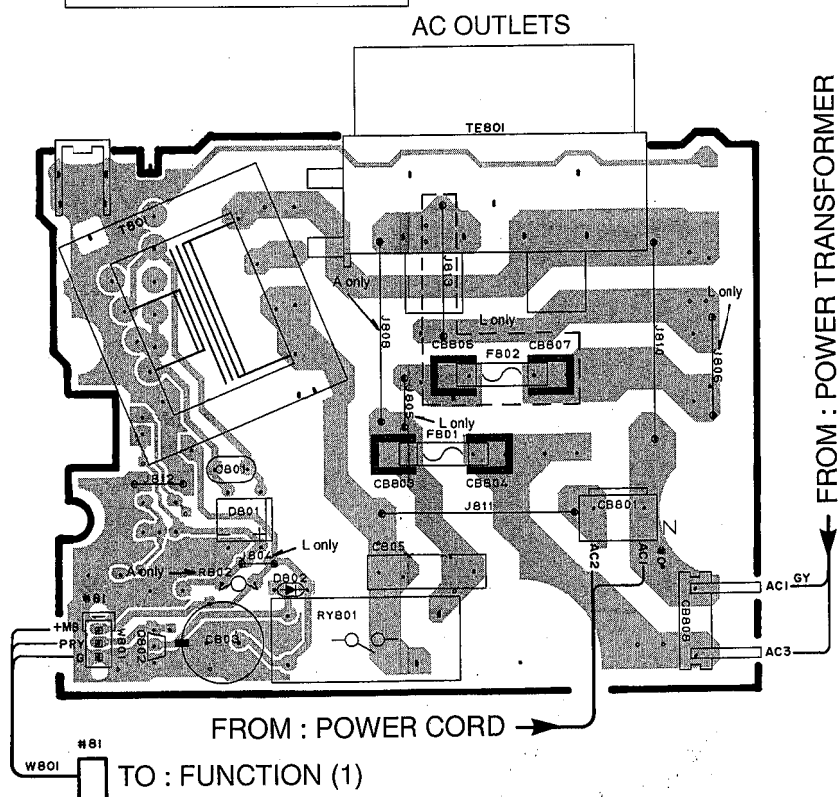
● U, C models

P. C. B. VIDEO (5)



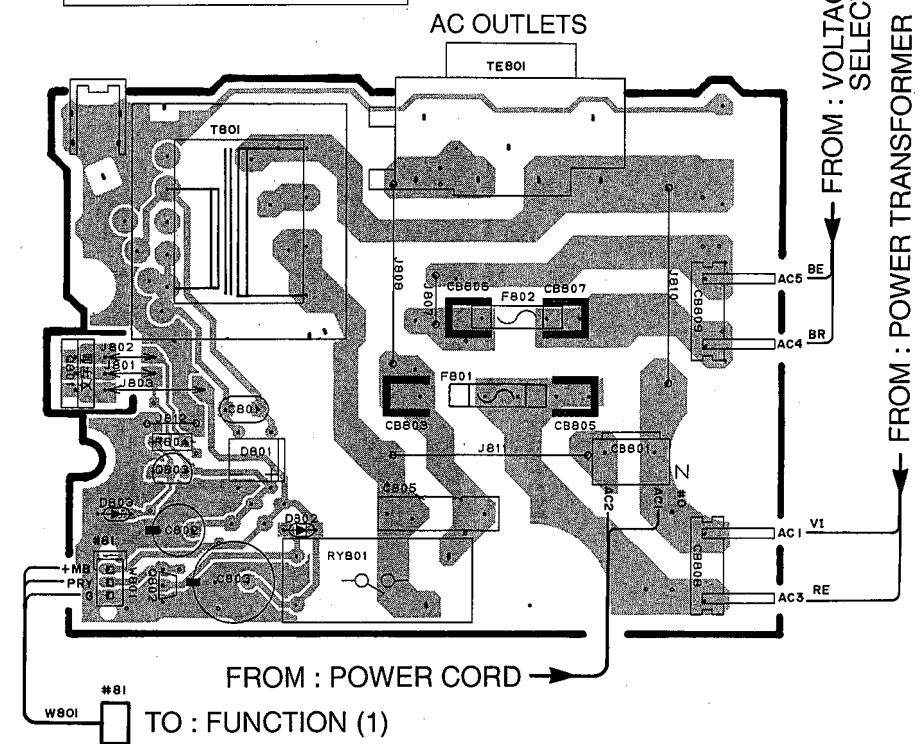
● A, L models

P. C. B. VIDEO (5)



● R model

P. C. B. VIDEO (5)



PIN CONNECTION DIAGRAM

ICs

| | | | | | | |
|--|---|---|--------------------------------------|--------------------------------------|--------------------------------|---------------|
| <p>NJM78L05A</p> | <p>NJM79M12FA NJM79M05FA</p> | <p>NJM7812FA NJM78M05FA</p> | <p>NJM2068L-D</p> | <p>M5220L</p> | <p>μPC4570HA</p> | <p>LB1641</p> |
| <p>MC14576CP</p> | <p>TC74HCU04AP TC4066BP</p> | <p>TC4053BP TC74HC153AP TC74HC4051AP TC9299P LC7824</p> | <p>STK311-020B</p> | <p>LA3401 LC72131 LC7535</p> | <p>LA1266 LC74781-9626</p> | |
| <p>TC9273N-004 TC9273N-009</p> | <p>LC78213 LC78211</p> | <p>HD6433614-A49P</p> | <p>LC75710NE</p> | <p>YSS243B</p> | | |
| <p>NJM2904M-T1 NJM4558MT-1 μPC4570G2</p> | <p>TC74HC02AF-TP1 TC74HC157AF-TP1</p> | <p>AK4320-VM</p> | <p>LH5P832N-10 UM61256FS-15Q</p> | <p>YM3436DK</p> | <p>YSS245</p> | |

Transistors

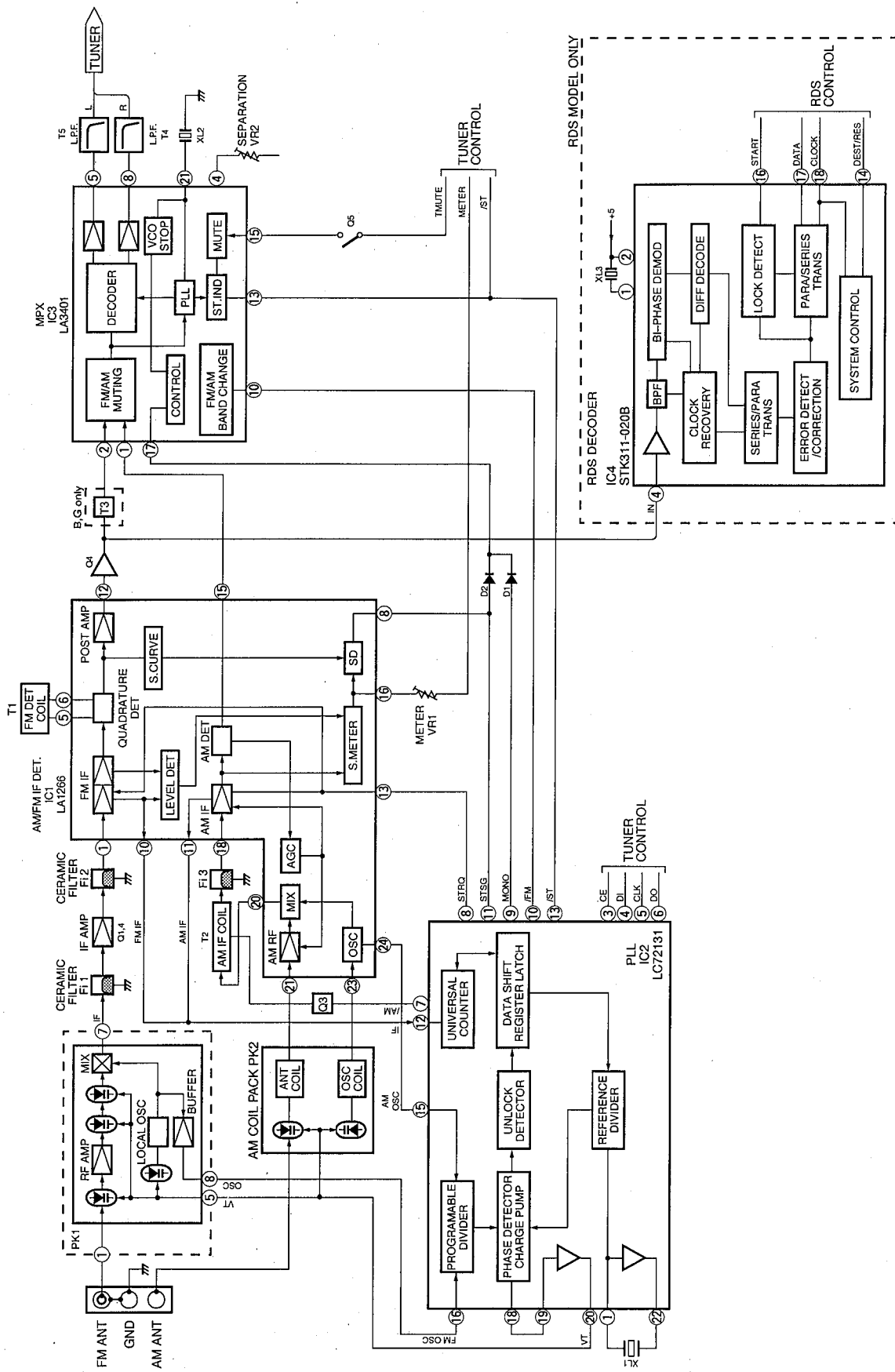
| | | | | |
|--|---|--|--|--|
| <p>2SA933S (Q, R) 2SA1115 (E, F) 2SC2603 (E, F) 2SC3330 (S, T) 2SC4038 (Q, R, S, E) 2SD1915 (S, T)</p> | <p>DTA114ES DTA143ES DTA144ES DTC114ES DTC123JS DTC143ES DTC143XS DTC143ZS DTC144ES</p> | <p>2SA970 (GR, BL) 2SA1015 (Y) 2SA1145 (O, Y) 2SB2878 (A, B)</p> | <p>2SC535 (A, B, C) 2SC1815 (Y) 2SC2240 (GR, BL) 2SC2705 (O, Y) 2SC2878 (A, B)</p> | <p>2SA1708 (S, T) 2SC4488 (S, T)</p> |
| <p>2SC3326 (A, B) DTA144EK</p> | <p>2SK246(Y)</p> | <p>2SA1837 2SB941 (P, Q) 2SC4793 2SD2396 (J, K)</p> | <p>2SC4512 (O, P, Y)</p> | <p>2SC5200 (R, O)</p> |

Diodes

| | | | | | | | |
|---|--|---------------|----------------|----------------|----------------|---------------|---------------|
| <p>1SR139-100 1SR139-400 1SS133 MA185</p> | <p>MA8056-H MTZJ5.1A MTZJ5.1B MTZJ6.8A MTZJ6.8B MTZJ9.1B MTZJ11.0B MTZJ12.0A MTZJ24.0B MTZJ24.0C MTZJ30.0D</p> | <p>1SS355</p> | <p>D2SBA20</p> | <p>RBV-602</p> | <p>D3SBA20</p> | <p>S1NB20</p> | <p>TLP621</p> |
|---|--|---------------|----------------|----------------|----------------|---------------|---------------|

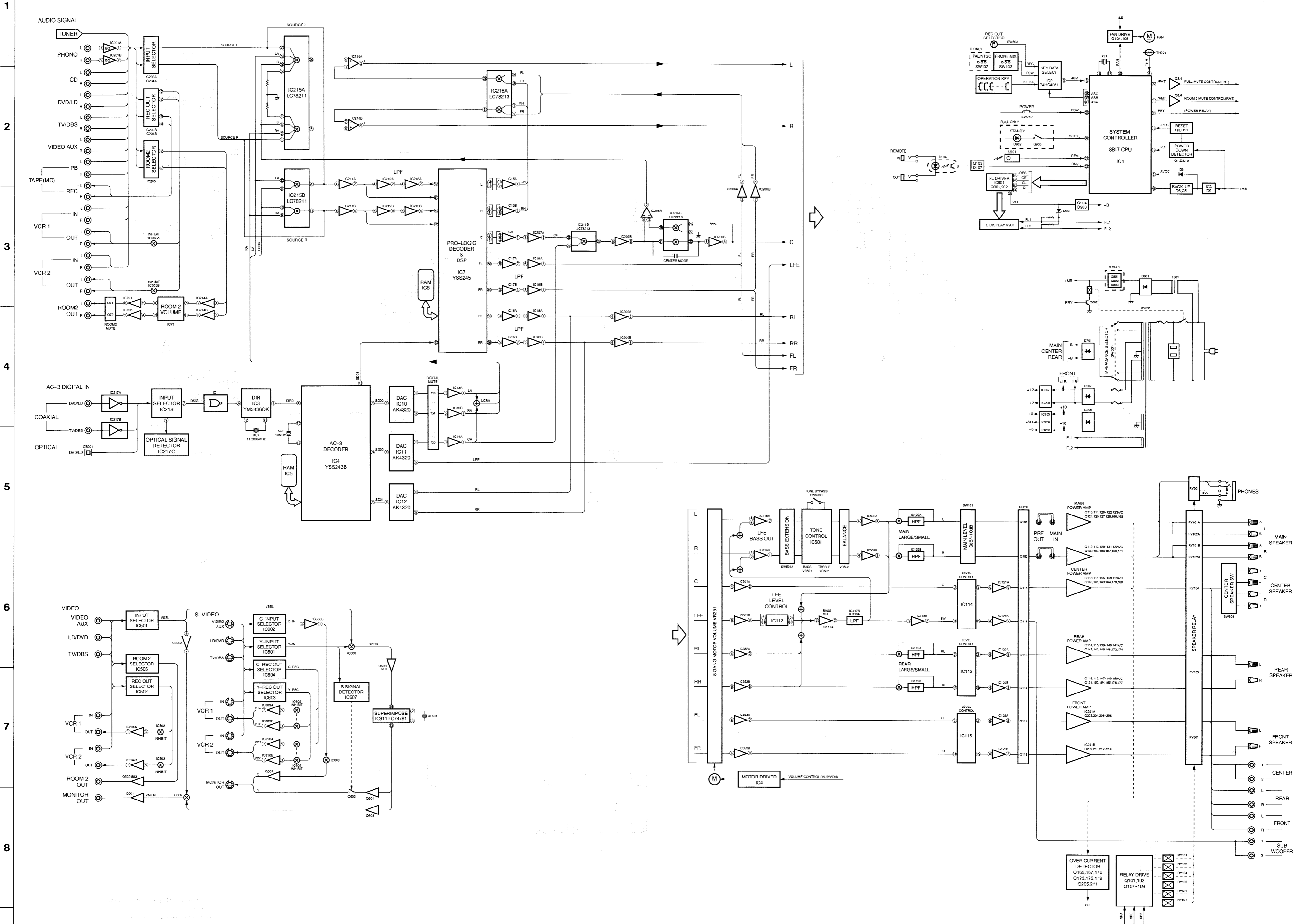
RX-V2092

BLOCK DIAGRAM



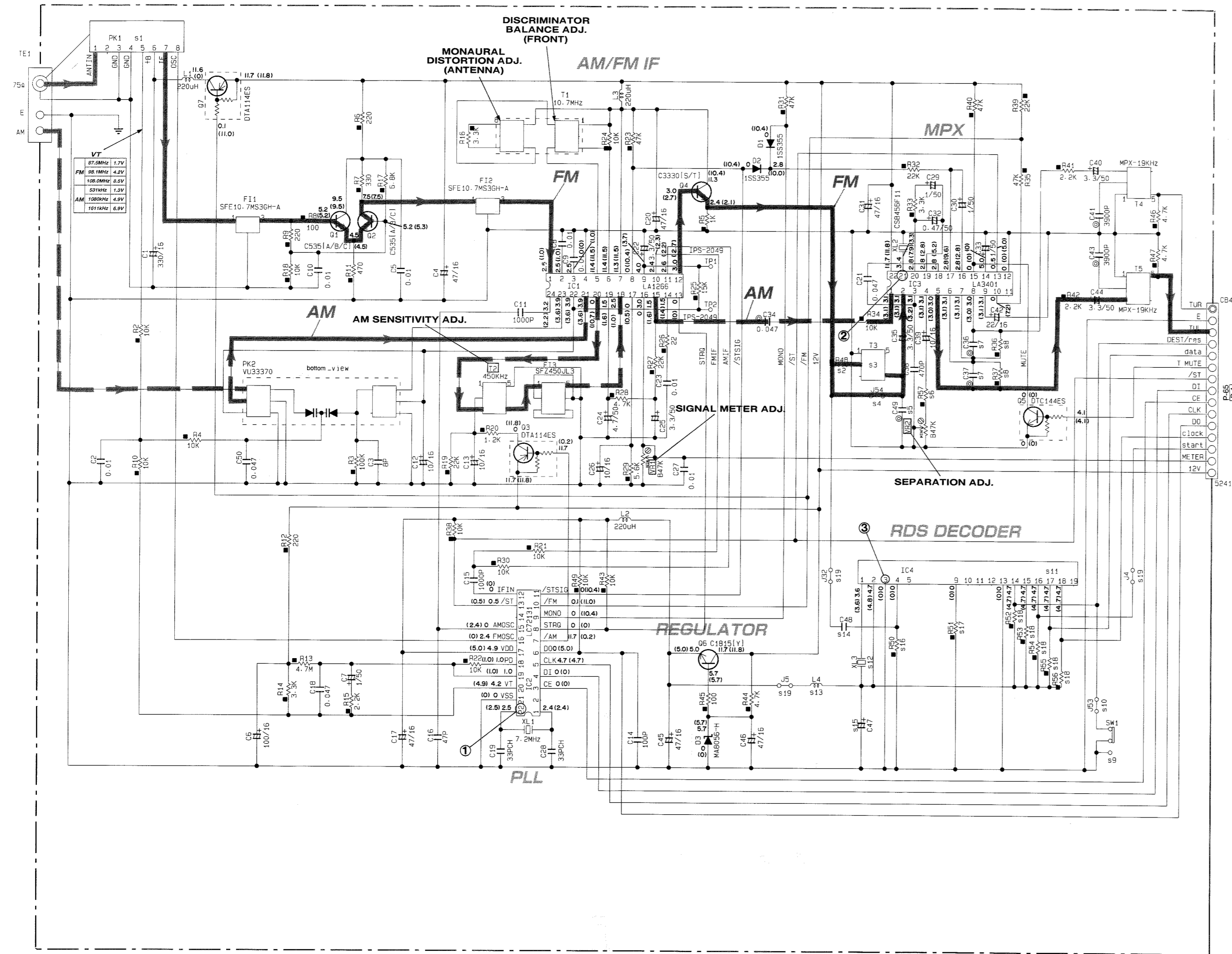
1
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■ BLOCK DIAGRAM



SCHEMATIC DIAGRAM (TUNER)

Each voltage given here represents that in the FM (98.1MHz, STEREO) reception mode but the one in the parentheses () is measured in the AM (1080kHz, MAN'L) reception mode.

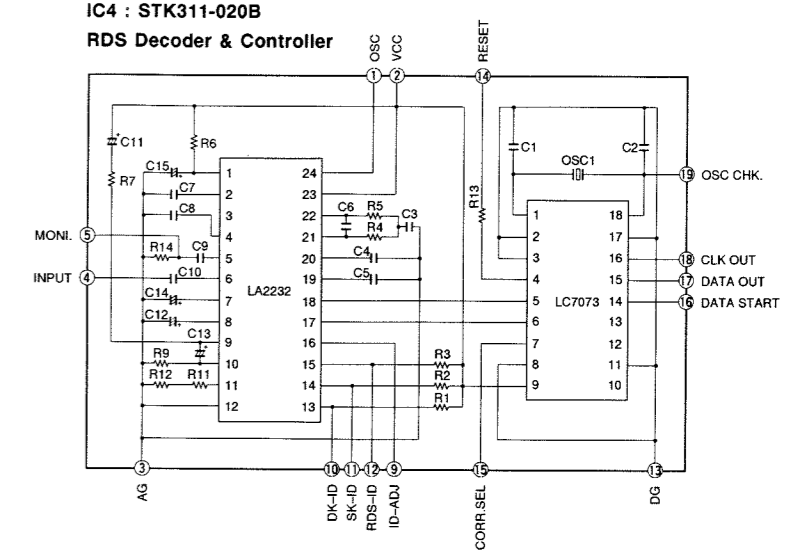
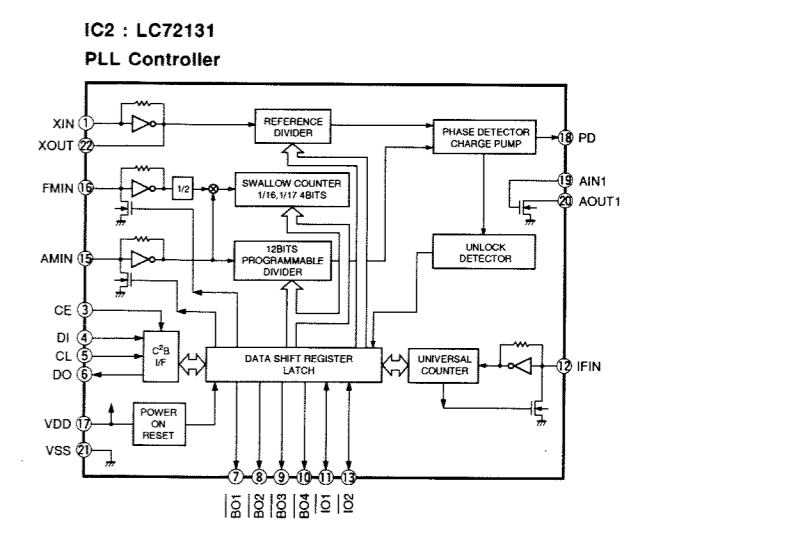
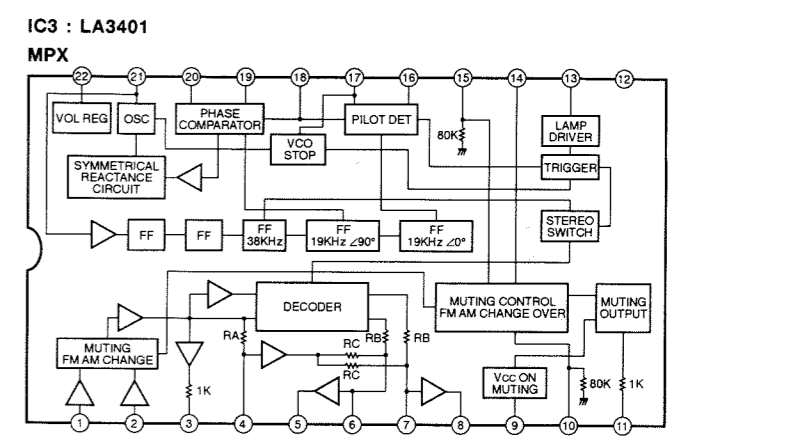
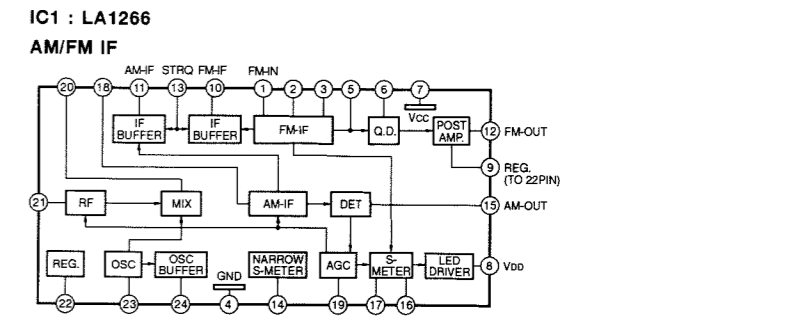


CIRCUIT CHANGES BY MARKET. Table with columns for components (S, J, U, C, R, A, B, G, L, B, G/RDS) and their values for different markets.

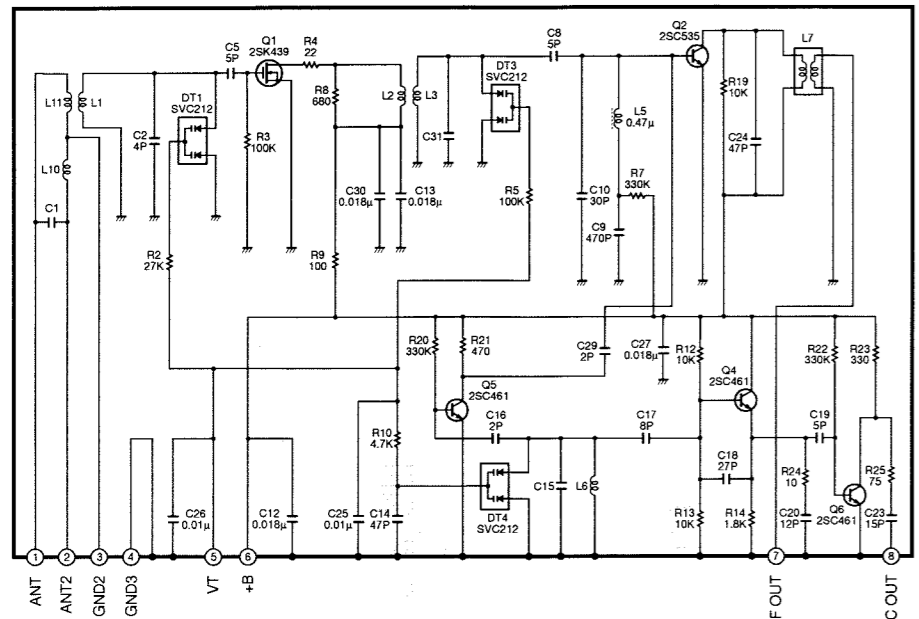
CAPACITOR table with columns for REMARKS and PARTS NAME, listing various capacitor types and values.

RESISTOR table with columns for REMARKS and PARTS NAME, listing various resistor types and values.

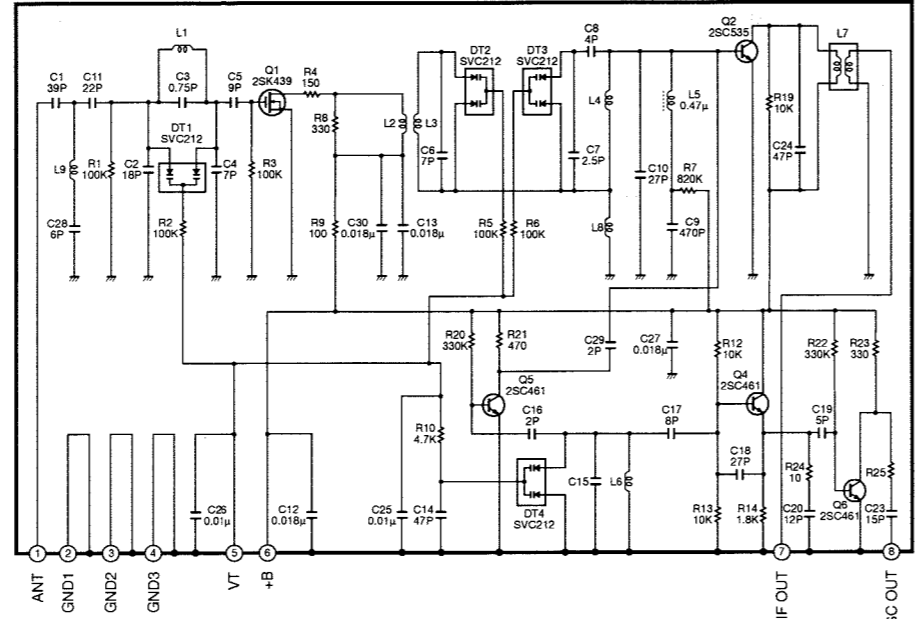
NOTICE (model) (J)..... JAPANESE (U)..... U. S. A (C)..... CANADIAN (R)..... GENERAL (A)..... AUSTRALIAN (B)..... BRITISH (G)..... EUROPEAN (T)..... CHINA (L)..... SINGAPORE



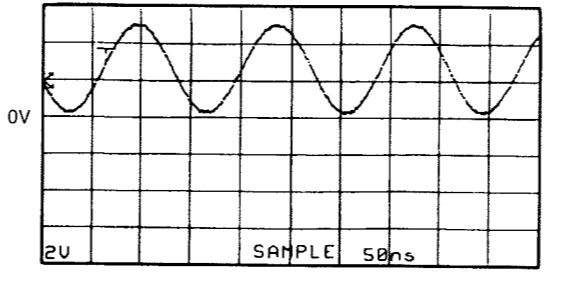
PK1 : ENV-17298G1 (VR242200) U, C, R models



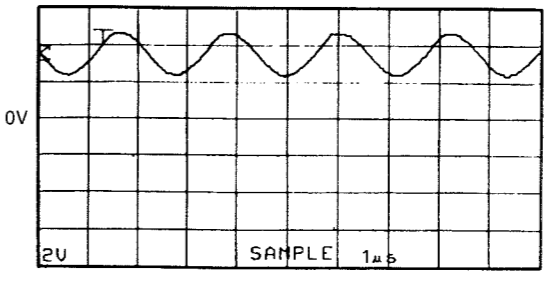
PK1 : ENV-17297G1 (VQ987600) A, L, B, G models



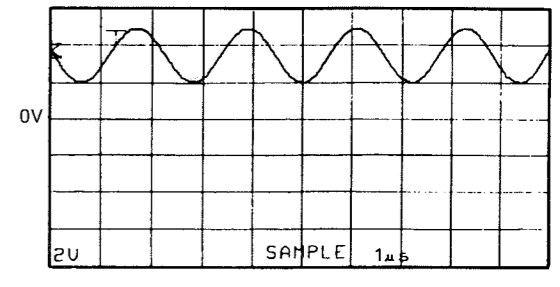
Point ① (Pin22 of IC2) FM reception V : 2V/div H : 50nsec/div DC range 1 : 1 probe



Point ② (Pin21 of IC3) V : 2V/div H : 1µsec/div DC range 1 : 1 probe



Point ③ (Pin1 of IC4) V : 5V/div H : 1 µsec/div DC range 1 : 1 probe



All voltages are measured with a 10MΩ/DC electric volt meter. Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed. Schematic diagram is subject to change without notice.

SCHEMATIC DIAGRAM (FUNCTION)

CAPACITOR

| REMARKS | PARTS NAME |
|---------|----------------------------------|
| NO MARK | ELECTROLYTIC CAPACITOR |
| NO MARK | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| NO MARK | CERAMIC TUBULAR CAPACITOR |
| ◎ | POLYESTER FILM CAPACITOR |
| ○ | POLYETHYLENE FILM CAPACITOR |
| ◇ | MICA CAPACITOR |
| ◇ | POLYPROPYLENE FILM CAPACITOR |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR |

RESISTOR

| REMARKS | PARTS NAME |
|---------|----------------------------------|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| NO MARK | CARBON FILM RESISTOR (P=10) |
| △ | METAL OXIDE FILM RESISTOR |
| □ | METAL FILM RESISTOR |
| ◇ | METAL PLATE RESISTOR |
| ◇ | THICK PROOF CARBON FILM RESISTOR |
| ◇ | CEMENT MOLDED RESISTOR |
| ◇ | SEMI-VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

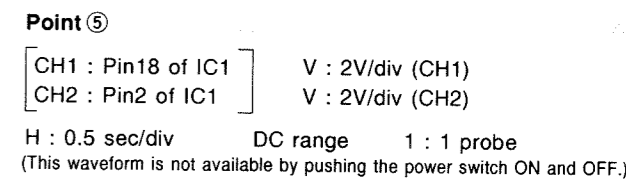
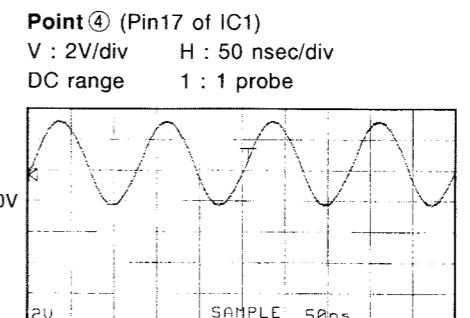
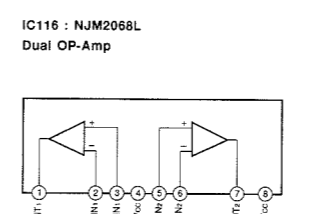
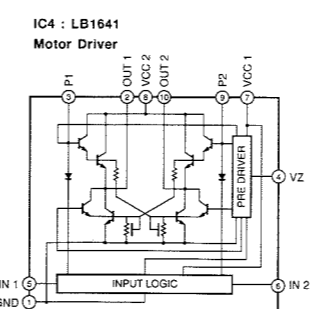
NOTICE (mode1)
 (J)..... JAPANESE
 (U)..... U.S.A
 (C)..... CANADIAN
 (R)..... GENERAL
 (A)..... AUSTRALIAN
 (B)..... BRITISH
 (G)..... EUROPEAN
 (T)..... CHINA
 (L)..... SINGAPORE

Interchangeable Parts at Manufacture-Stage

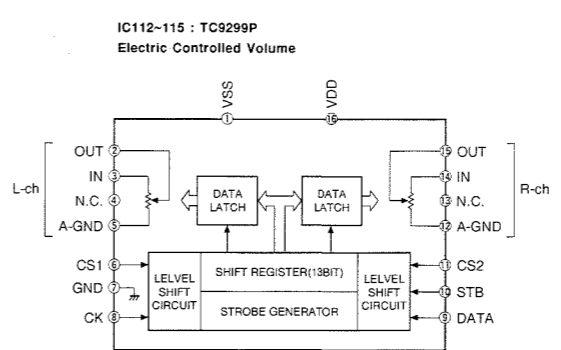
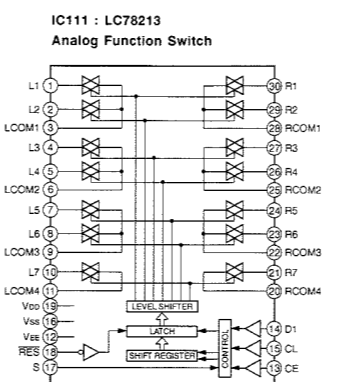
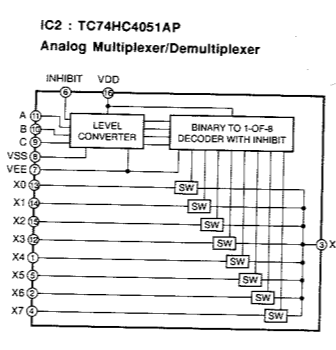
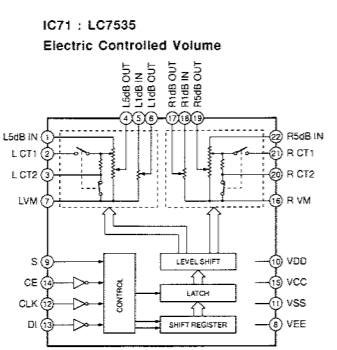
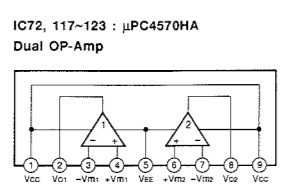
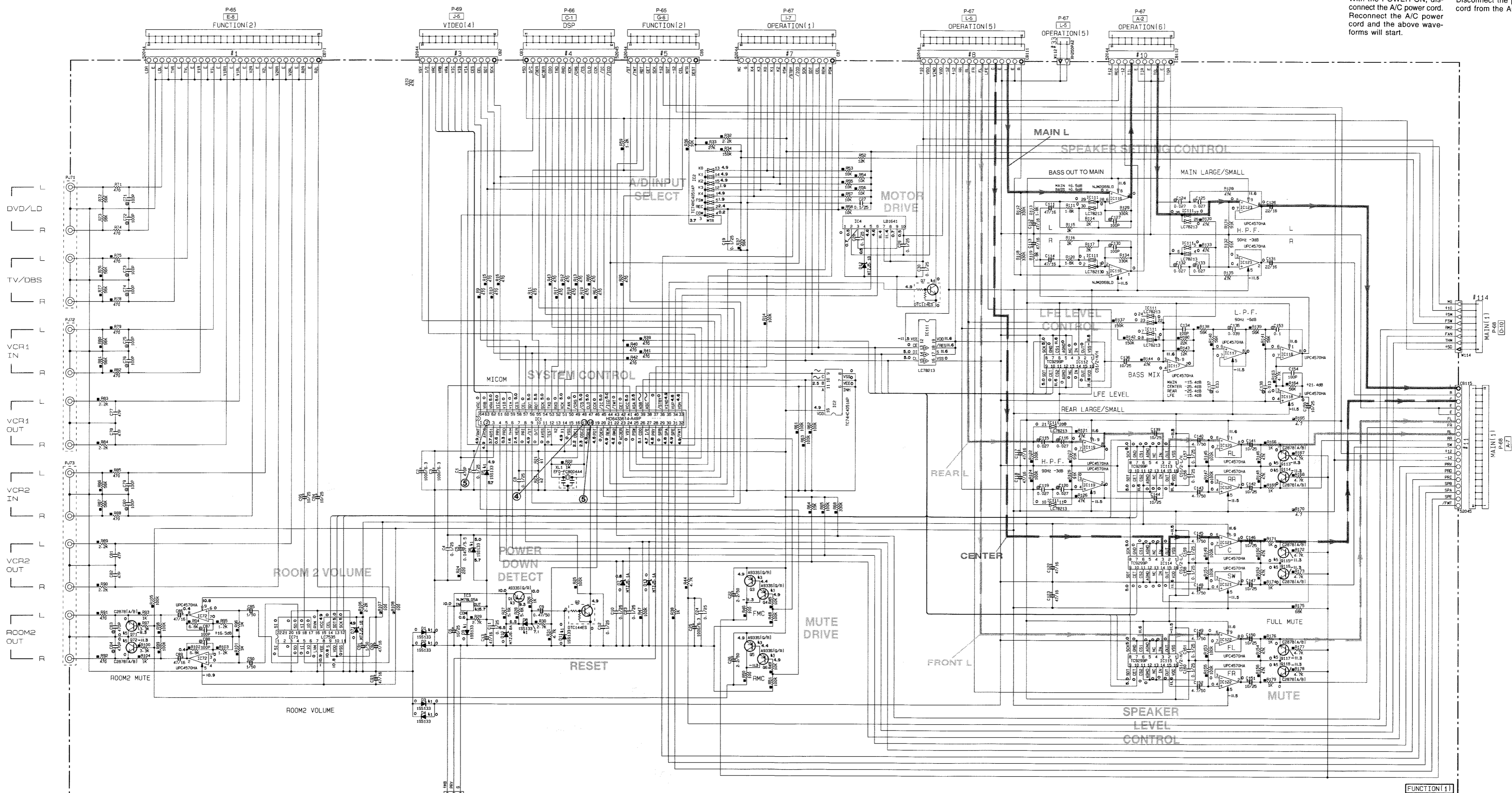
| Mark | Reference Parts Number | Parts Name |
|------|------------------------|---------------------------------------|
| K1 | D1-6-B-9-11 | 15S133 RES04D |
| K2 | 303 | N.M.782054 AN782054-1TA |
| K3 | G1-3-6 | 254032(G/2) 254113(G/2) 254132(G/4/5) |
| K4 | G7 | 07011465 M4011 |
| K5 | G71-72-113-118 | 25C2070(A/8) 25D1915(F/1) |

CIRCUIT CHANGES BY MARKET

| S | U.C | R | A.L |
|---|-----|-----|-----|
| 1 | R21 | 10K | 10K |
| 2 | R23 | 10K | 10K |



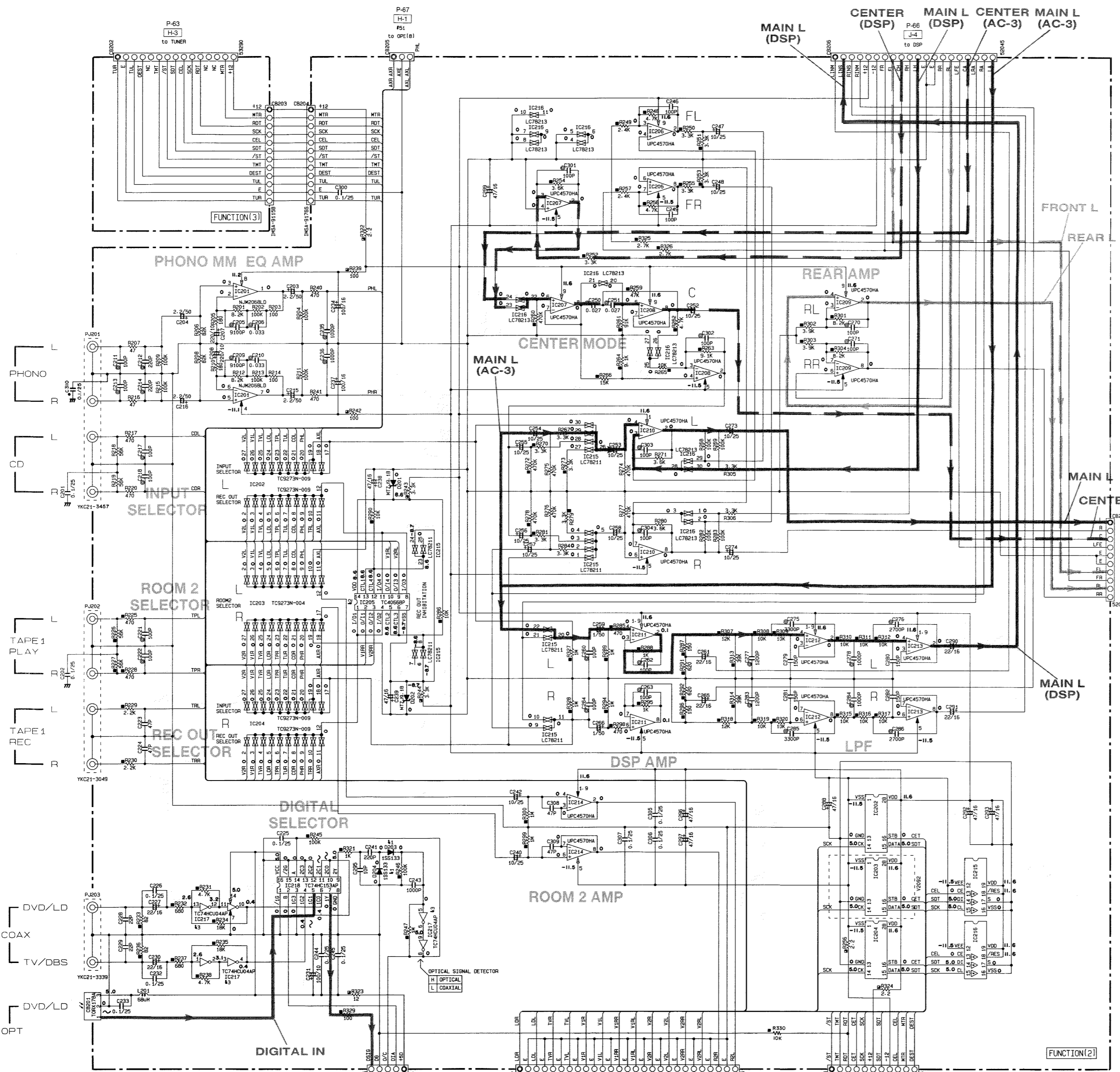
With the POWER ON, disconnect the A/C power cord. Reconnect the A/C power cord and the above waveforms will start.



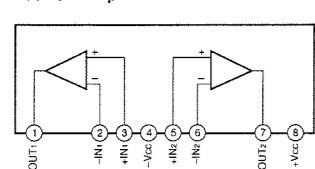
Other ICs
 ● IC1 : HD6473614P → See page 29

* All voltages are measured with a 10MΩ/DC electric volt meter.
 * Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

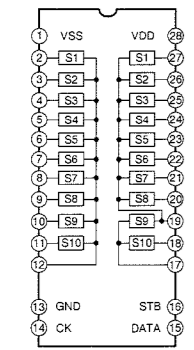
SCHEMATIC DIAGRAM (FUNCTION)



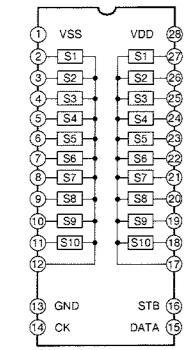
IC201 : NJM2068L Dual OP-Amp



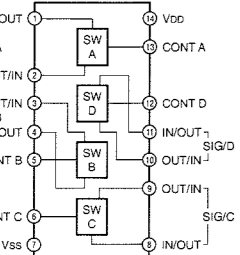
IC202, 204 : TC9273N-009 Analog Function Switch



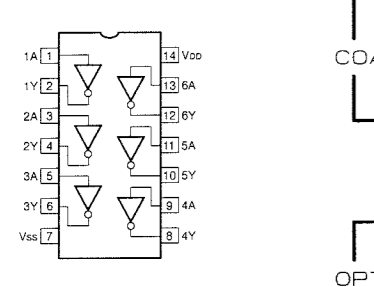
IC203 : TC9273N-004 Analog Function Switch



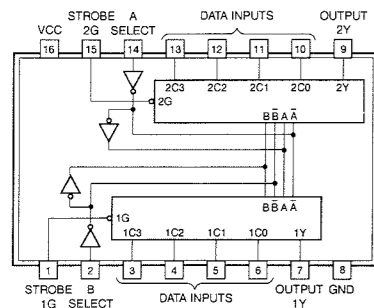
IC205 : TC4066BP Quad Analog Switch/Multiplexer



IC217 : TC74HC04AP Hex Inverters



IC218 : TC74HC163AP Dual 4 to 1 Data Selectors



| REMARKS | PARTS NAME |
|---------|---------------------------------|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| NO MARK | CARBON FILM RESISTOR (P=10) |
| NO MARK | METAL OXIDE FILM RESISTOR |
| NO MARK | METAL FILM RESISTOR |
| NO MARK | METAL PLATE RESISTOR |
| NO MARK | FIRE PROOF CARBON FILM RESISTOR |
| NO MARK | CEMENT MOUNTED RESISTOR |
| NO MARK | SEMI VARIABLE RESISTOR |
| NO MARK | CHIP RESISTOR |

| Mark | Reference Parts Number | Parts Name |
|------|------------------------|--------------------------------------|
| A1 | D93-204 | 1S5133 MS1047D |
| A2 | 1C205 | TC4066BP UF04066BC MC14066B |
| A3 | 1C217 | TC74HC04AP SN74HC04M MC74HC04N |
| A4 | | |
| A5 | | |

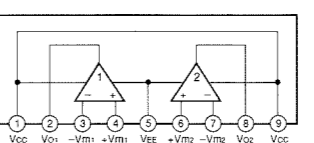
| REMARKS | PARTS NAME |
|---------|----------------------------------|
| NO MARK | ELECTROLYTIC CAPACITOR |
| NO MARK | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| NO MARK | CERAMIC TUBULAR CAPACITOR |
| NO MARK | POLYESTER FILM CAPACITOR |
| NO MARK | POLYSTYRENE FILM CAPACITOR |
| NO MARK | MICA CAPACITOR |
| NO MARK | POLYPROPYLENE FILM CAPACITOR |
| NO MARK | SEMICONDUCTIVE CERAMIC CAPACITOR |

CIRCUIT CHANGES BY MARKET.

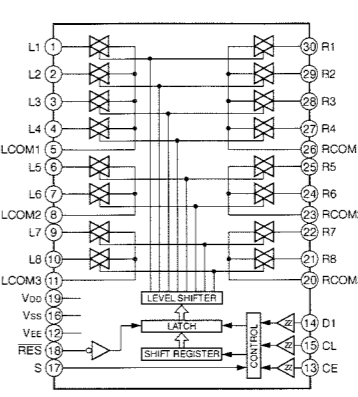
| S | U.C | R | A.L |
|---|-----|---------|---------|
| 1 | | | |
| 2 | | | |
| | PWB | XT249 | XT249 |
| | PCB | VY76990 | VY77000 |
| | | | VY77010 |

NOTICE (model)
 (J)..... JAPANESE
 (U)..... U.S.A
 (C)..... CANADIAN
 (F)..... GENERAL
 (A)..... AUSTRALIAN
 (B)..... BRITISH
 (G)..... EUROPEAN
 (T)..... CHINA
 (L)..... SINGAPORE

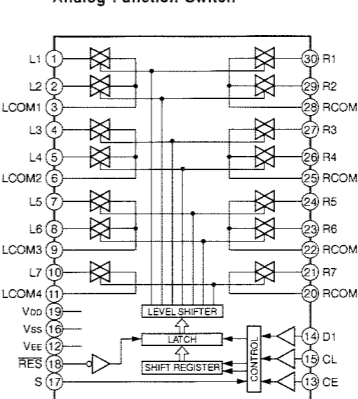
IC206-214 : μPC4570HA Dual OP-Amp



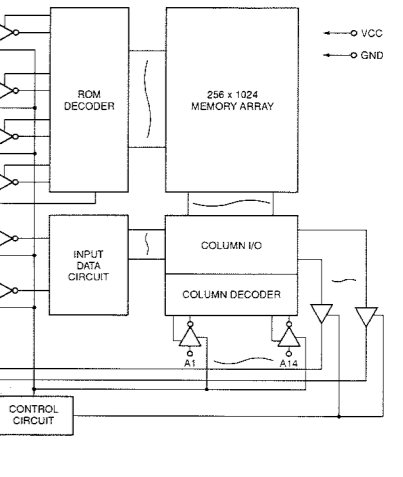
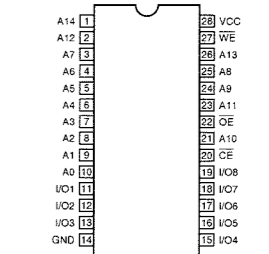
IC215 : LC78211 Analog Function Switch



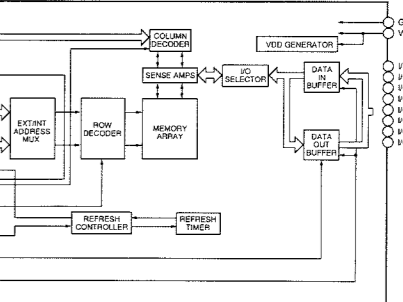
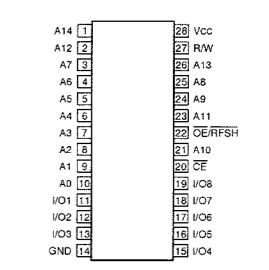
IC216 : LC78213 Analog Function Switch



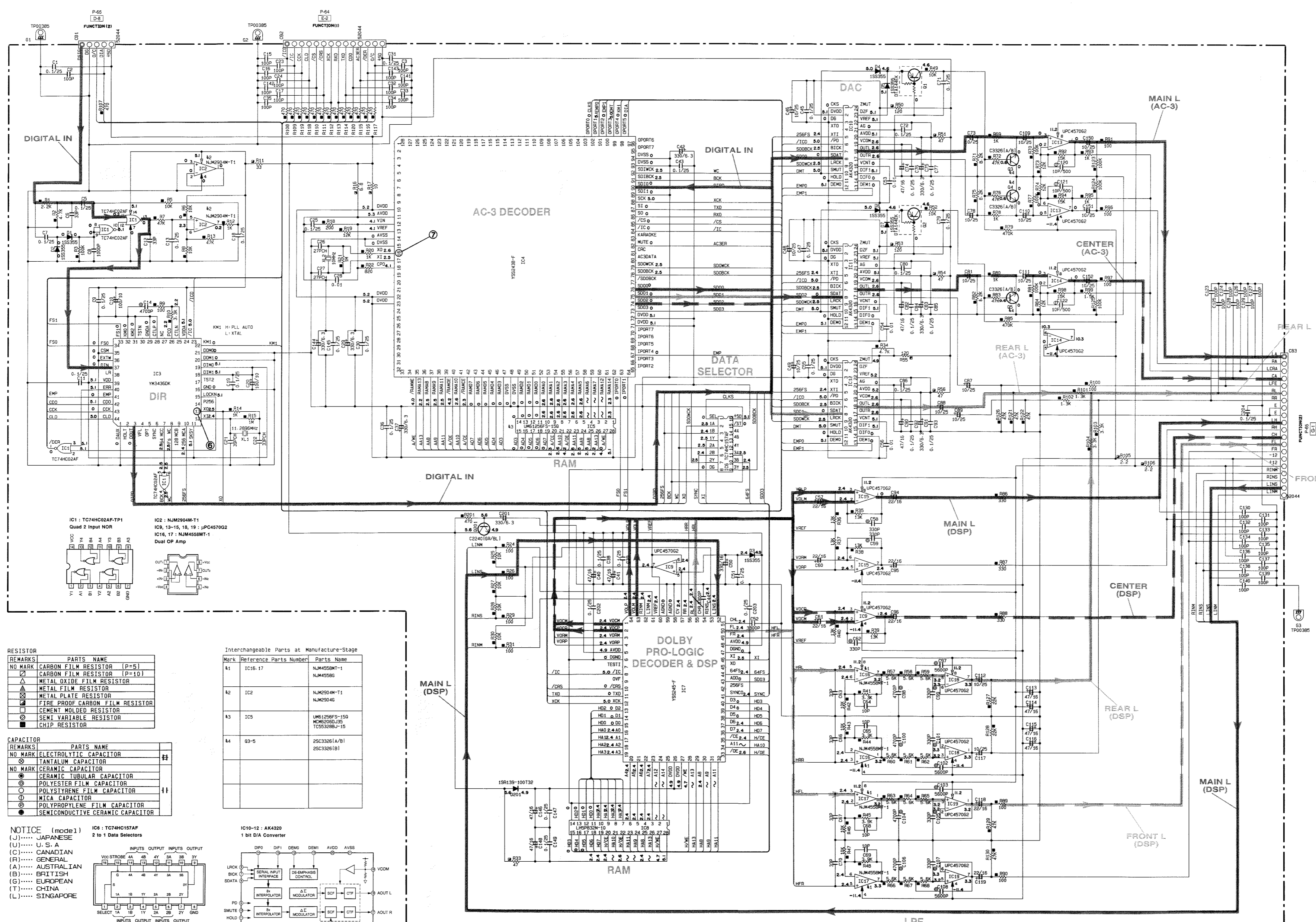
IC5 : UM61256FS-15Q 32K X 8 High Speed Static RAM



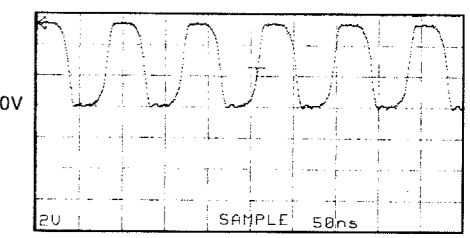
IC8 : LH5P832N-10 256K Pseudo Static RAM



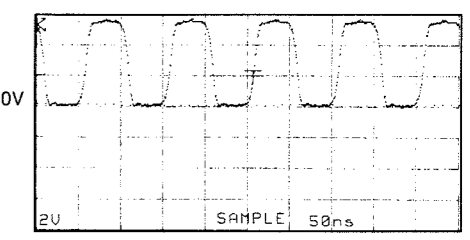
SCHEMATIC DIAGRAM (DSP)



Point ⑥ (Pin13 of IC3)
 V : 2V/div H : 50 nsec/div
 DC range 1 : 1 probe



Point ⑦ (Pin16 of IC4)
 V : 2V/div H : 50 nsec/div
 DC range 1 : 1 probe



RESISTOR

| REMARKS | PARTS NAME |
|---------|---------------------------------|
| NO MARK | CARBON FILM RESISTOR [P=5] |
| △ | CARBON FILM RESISTOR [P=10] |
| □ | METAL OXIDE FILM RESISTOR |
| ▲ | METAL FILM RESISTOR |
| ◇ | METAL PLATE RESISTOR |
| ■ | FIRE PROOF CARBON FILM RESISTOR |
| ▤ | CEMENT MOLDED RESISTOR |
| ⊗ | SEMI VARIABLE RESISTOR |
| ⊙ | CHIP RESISTOR |

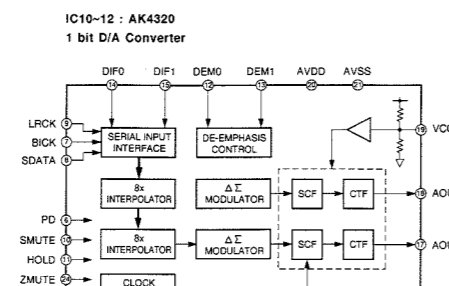
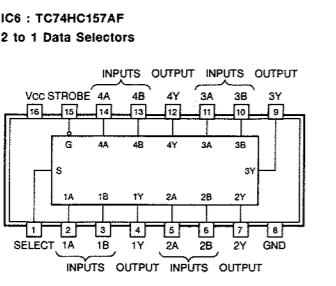
Interchangeable Parts at Manufacture-Stage

| Mark | Reference Parts Number | Parts Name |
|------|------------------------|--|
| k1 | IC16-17 | NJM4558M-1 NJM4558 |
| k2 | IC2 | NJM904M-T1 NJM904G |
| k3 | IC3 | UM6125F5-150 MCM2060J35 TC9238B-15 |
| k4 | 03-5 | 25C3326(A/B) 25C326(B) |

CAPACITOR

| REMARKS | PARTS NAME |
|---------|----------------------------------|
| NO MARK | ELECTROLYTIC CAPACITOR |
| ⊗ | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| ⊙ | CERAMIC TUBULAR CAPACITOR |
| ⊕ | POLYESTER FILM CAPACITOR |
| ○ | POLYPROPYLENE FILM CAPACITOR |
| ⊖ | MICA CAPACITOR |
| ⊙ | POLYPROPYLENE FILM CAPACITOR |
| ⊕ | SEMICONDUCTIVE CERAMIC CAPACITOR |

NOTICE (mode1)
 (J)..... JAPANESE
 (U)..... U.S.A.
 (C)..... CANADIAN
 (F)..... GENERAL
 (A)..... AUSTRALIAN
 (B)..... BRITISH
 (G)..... EUROPEAN
 (T)..... CHINA
 (L)..... SINGAPORE

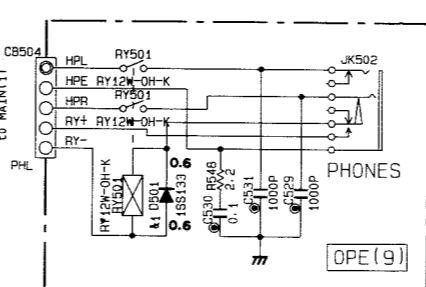
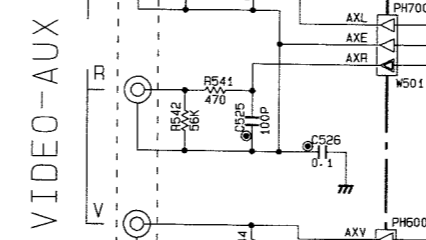
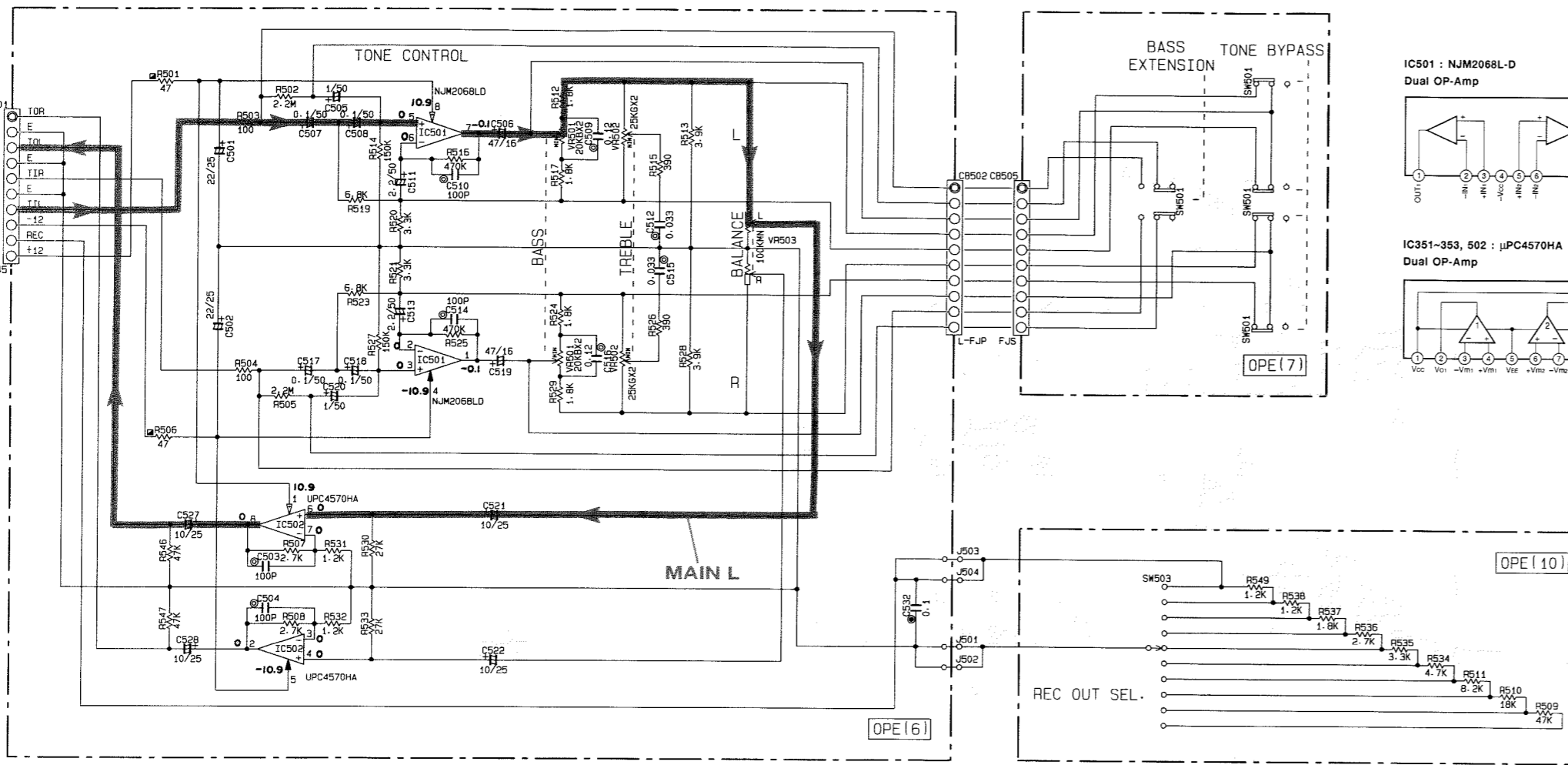


- Other ICs
- IC3 : YM336DK → See page 31
 - IC4 : YSS243B → See page 32
 - IC7 : YSS245 → See page 35

* All voltages are measured with a 10MΩ/DC electric volt meter.
 * Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

SCHEMATIC DIAGRAM (OPERATION)

TONE CONTROL



CAPACITOR

| REMARKS | PARTS NAME |
|---------|----------------------------------|
| NO MARK | ELECTROLYTIC CAPACITOR |
| ⊗ | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| ⊙ | CERAMIC TUBULAR CAPACITOR |
| ⊖ | POLYESTER FILM CAPACITOR |
| ⊕ | POLYSTYRENE FILM CAPACITOR |
| ⊘ | MICA CAPACITOR |
| ⊙ | POLYPROPYLENE FILM CAPACITOR |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR |

RESISTOR

| REMARKS | PARTS NAME |
|---------|---------------------------------|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| ⊠ | CARBON FILM RESISTOR (P=10) |
| △ | METAL OXIDE FILM RESISTOR |
| ⊚ | METAL FILM RESISTOR |
| ⊛ | METAL PLATE RESISTOR |
| ⊜ | FIRE PROOF CARBON FILM RESISTOR |
| ⊝ | CEMENT MOLDED RESISTOR |
| ⊞ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

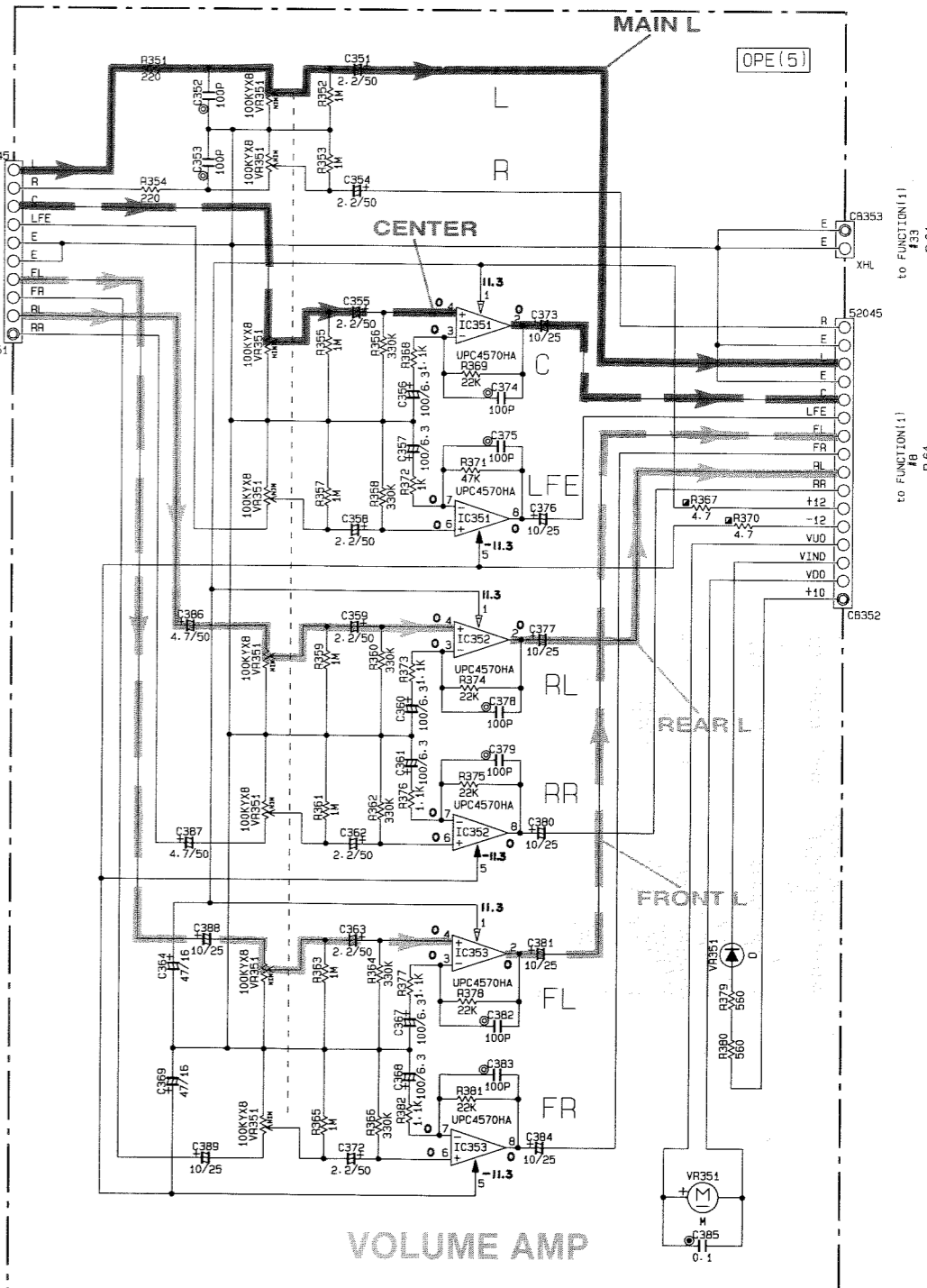
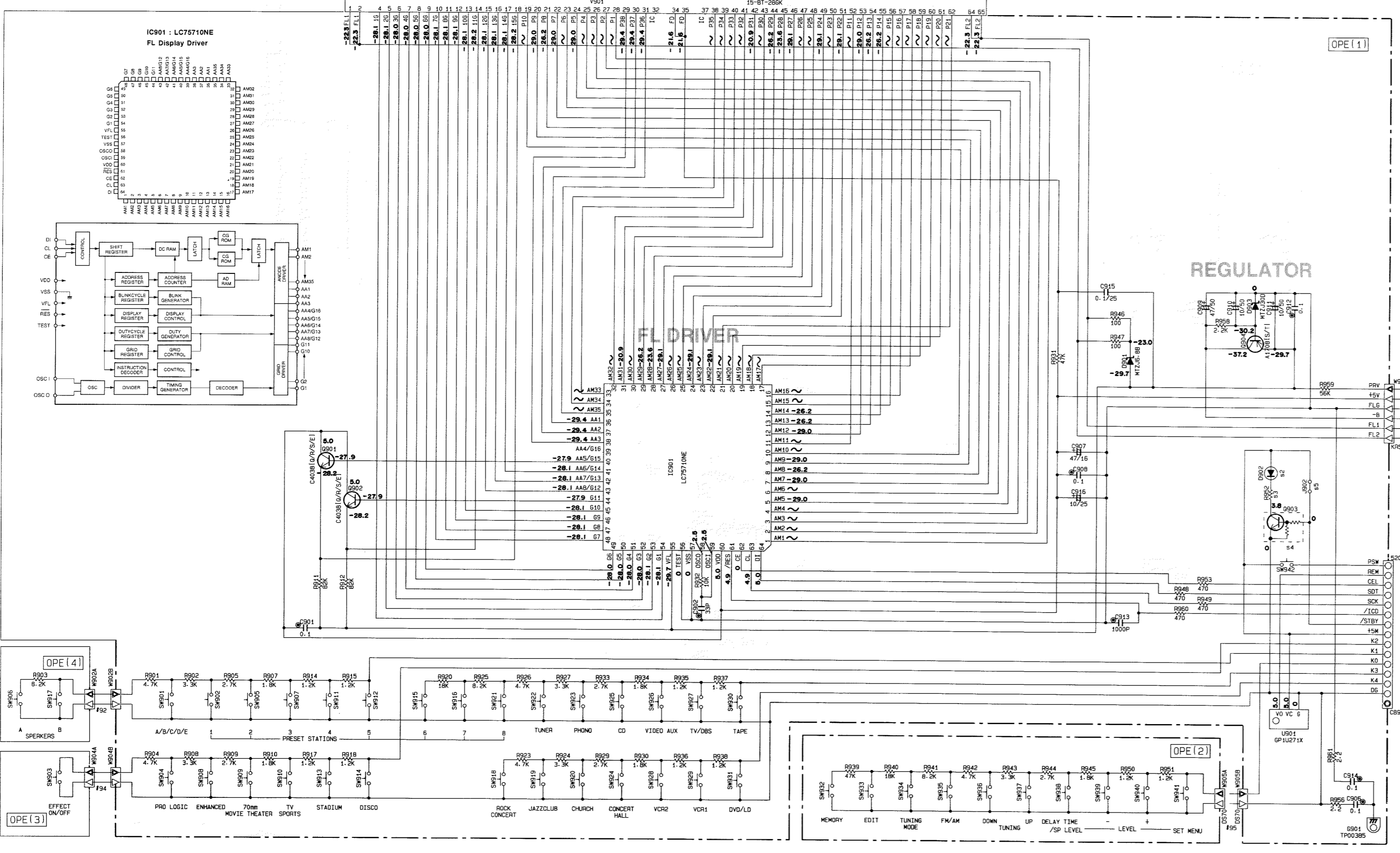
Interchangeable Parts at Manufacture-Stage

| Mark | Reference Parts Number | Parts Name |
|------|------------------------|-----------------|
| K1 | D901 | S5S133 PMS104TD |
| K2 | | |
| K3 | | |

CIRCUIT CHANGES BY MARKET

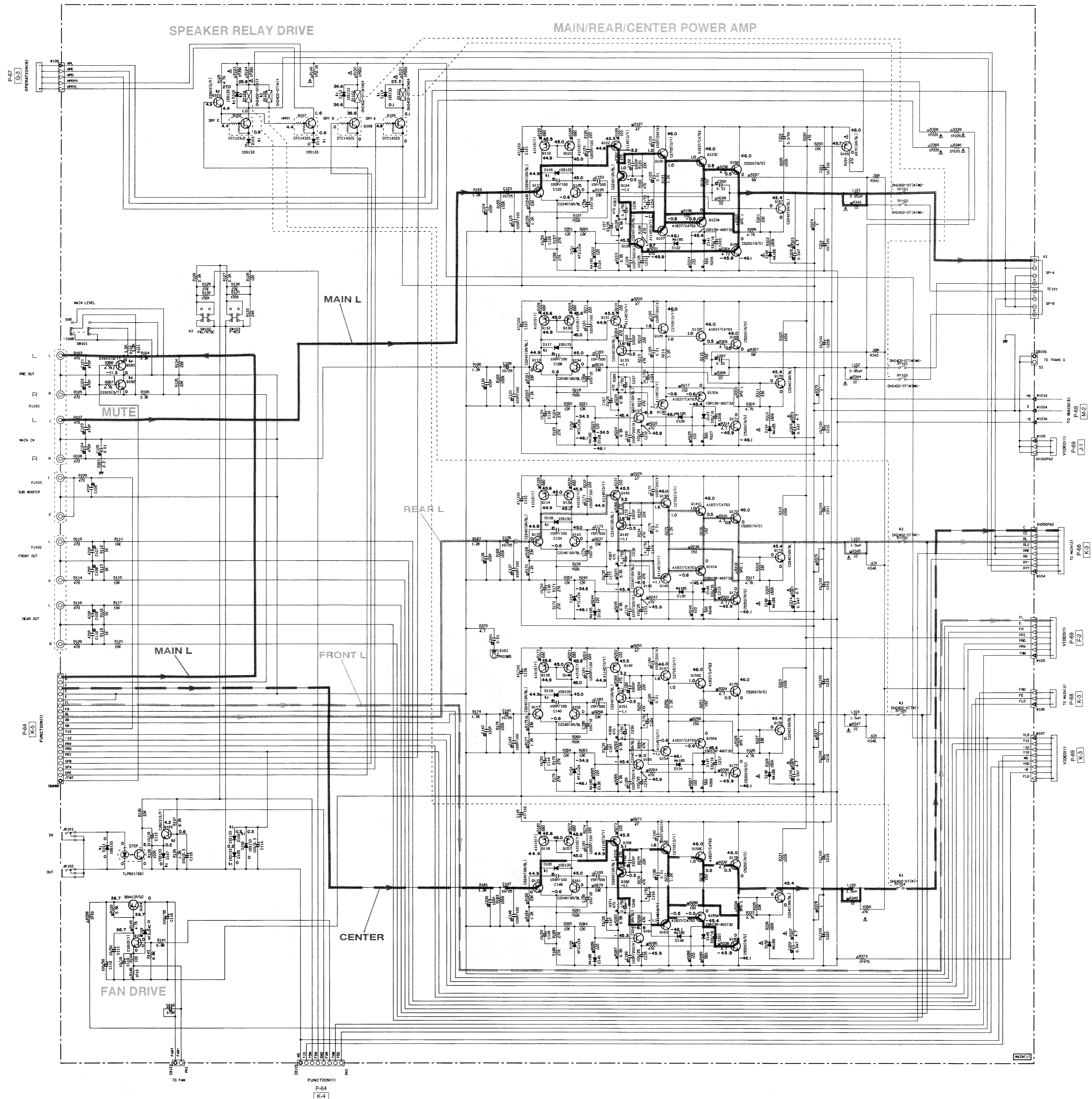
| Mark | Circuit No. | U.C | R-A-L |
|------|-------------|--------|-----------------|
| 1 | D902 | X | SLR-325VC |
| 2 | R902 | X | 270 |
| 3 | G903 | X | DTC144ES UM4E11 |
| 4 | J902 | 0 | X |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| | FWB | XT248 | XT248 |
| | PCB | VY7970 | VY79980 |

⊗ : NOT USED ○ : USED

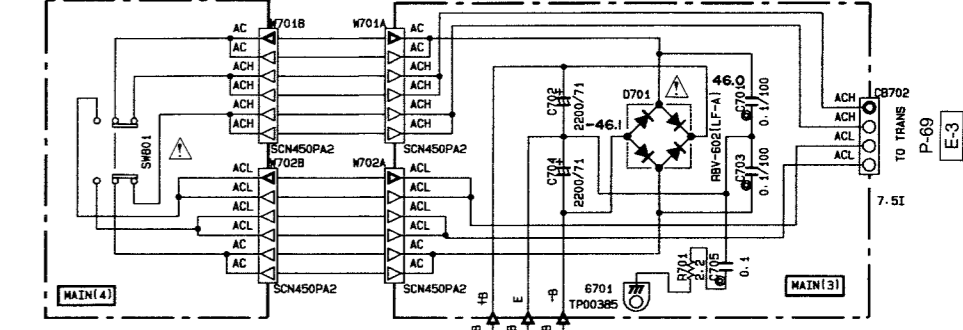


* All voltages are measured with a 10MΩ/DC electric volt meter.
 * Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

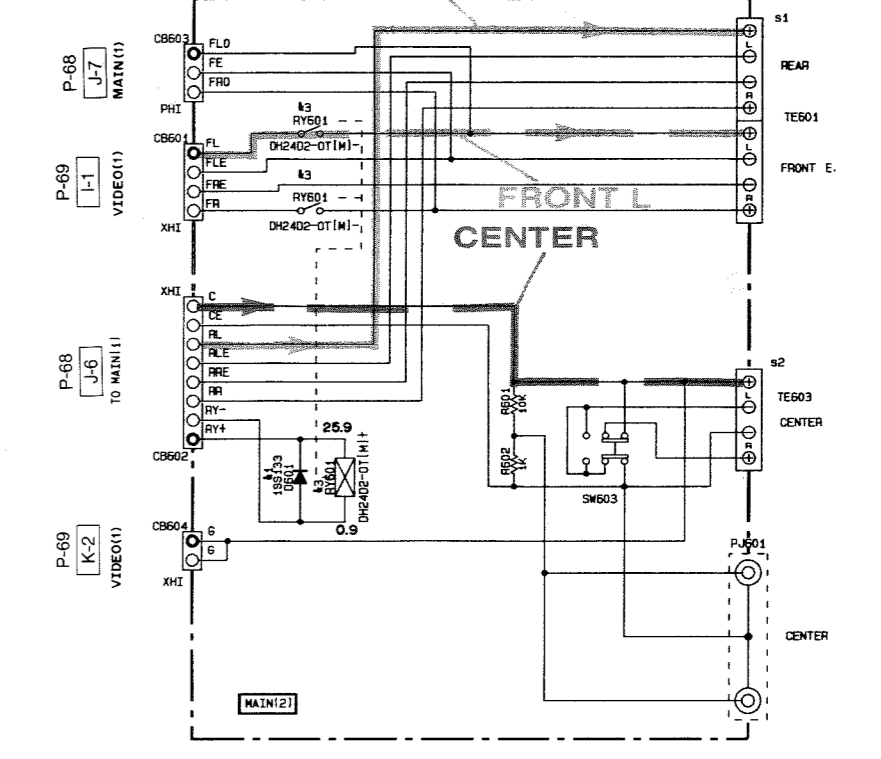
■ SCHEMATIC DIAGRAM (MAIN)



POWER SUPPLY

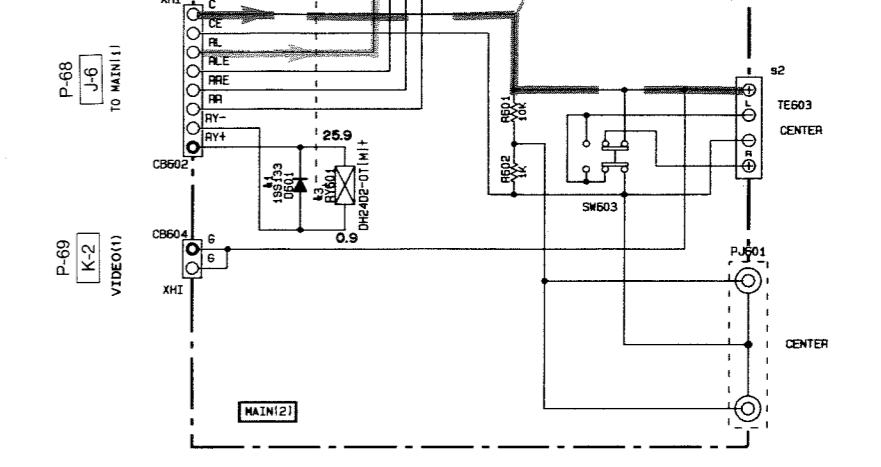


REAR L



FRONT L

CENTER



RESISTOR

| REMARKS | PARTS NAME |
|---------|---------------------------------|
| NO MARK | CARBON FILM RESISTOR (P-F) |
| △ | CARBON FILM RESISTOR (P-C) |
| ▲ | METAL OXIDE FILM RESISTOR |
| ■ | METAL FILM RESISTOR |
| □ | METAL PLATE RESISTOR |
| ● | FIRE PROOF CARBON FILM RESISTOR |
| ○ | CEMENT MOLDED RESISTOR |
| ⊗ | SEMI VARIABLE RESISTOR |
| ⊙ | CHIP RESISTOR |

CAPACITOR

| REMARKS | PARTS NAME |
|---------|----------------------------------|
| NO MARK | ELECTROLYTIC CAPACITOR |
| ⊗ | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| ● | CERAMIC TUBULAR CAPACITOR |
| ⊗ | POLYESTER FILM CAPACITOR |
| ○ | POLYETHYLENE FILM CAPACITOR |
| ⊙ | MICA CAPACITOR |
| ⊗ | POLYPROPYLENE FILM CAPACITOR |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR |

NOTICE (model)
 (J)..... JAPANESE
 (U)..... U.S.A
 (C)..... CANADIAN
 (E)..... GENERAL
 (A)..... AUSTRALIAN
 (B)..... BRITISH
 (G)..... EUROPEAN
 (T)..... CHINA
 (L)..... SINGAPORE

Interchangeable Parts at Manufacture-Stage

| Mark | Reference Parts Number | Parts Name |
|------|----------------------------------|--|
| 41 | 9101-103-100-100-100-113-100-501 | 100333 10010470 |
| 42 | 9101-103 | 25C2003(E/P) 25C1400(A/S) 25C3114(G/W/S) |
| 43 | 91104-105-001 | 09C402-D1W M504-1C24 |
| 44 | 9101-102 | 25D1915(S/T) 25D1919(L/T) |

CIRCUIT CHANGES BY MARKET.

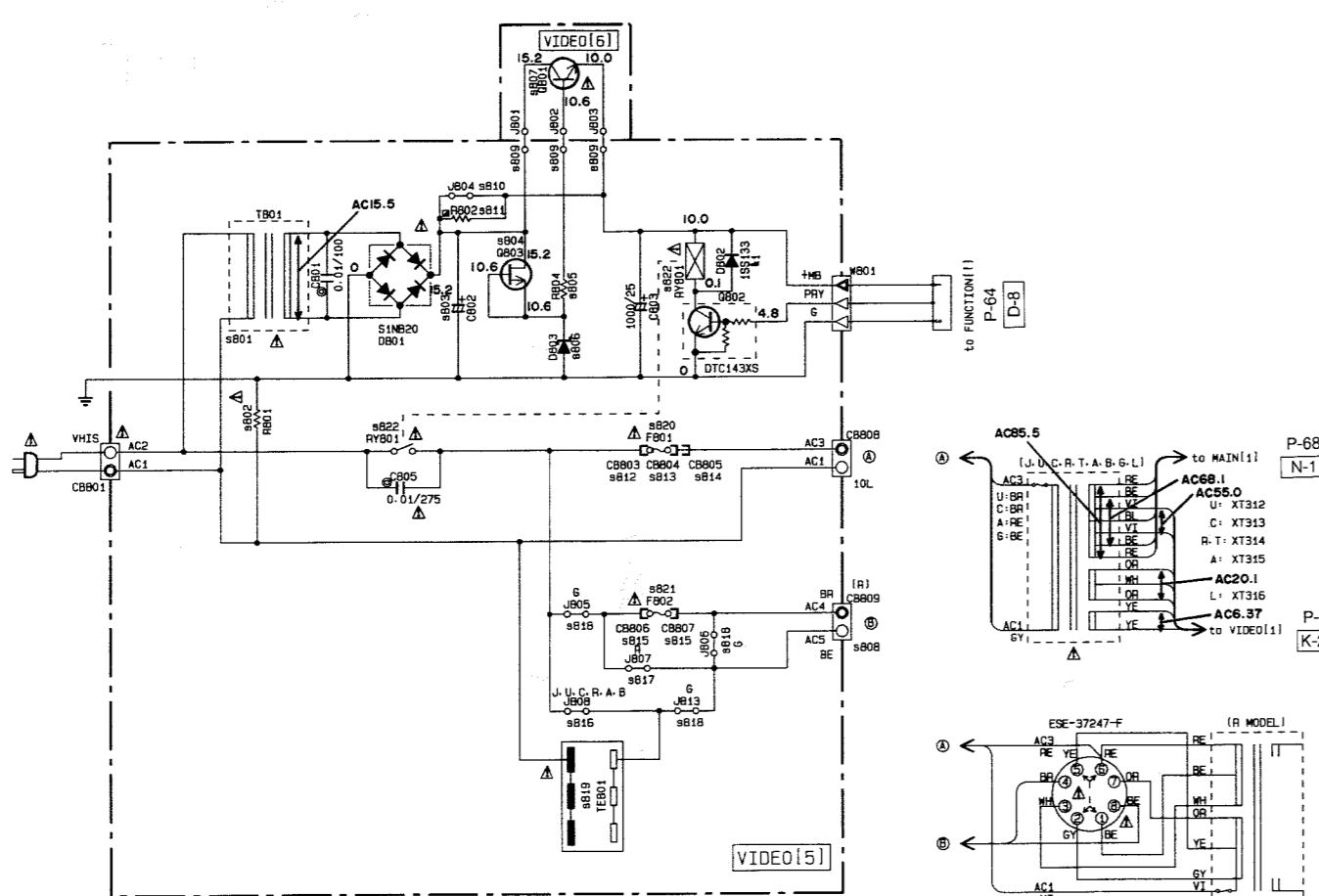
| S | U.C.A | R | L | |
|---|-----------|---------|---------|---------|
| 1 | TE101-501 | VC13170 | VC13170 | VC72090 |
| 2 | TE102 | VC13180 | VC13180 | VC72100 |
| 3 | SW102 | + | VT09390 | + |

⊗ : NOT USED

* All voltages are measured with a 10MQ/DC electric volt meter.
 * Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

SCHEMATIC DIAGRAM (VIDEO)

SUB POWER SUPPLY



IC501, 502, 601-604 : TC74HC4051AP

Analog Multiplexer/Demultiplexer

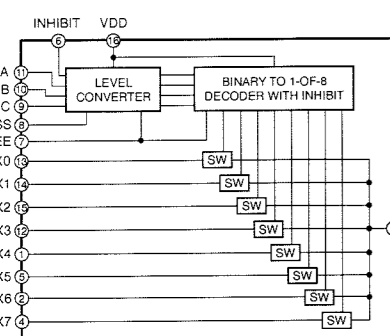


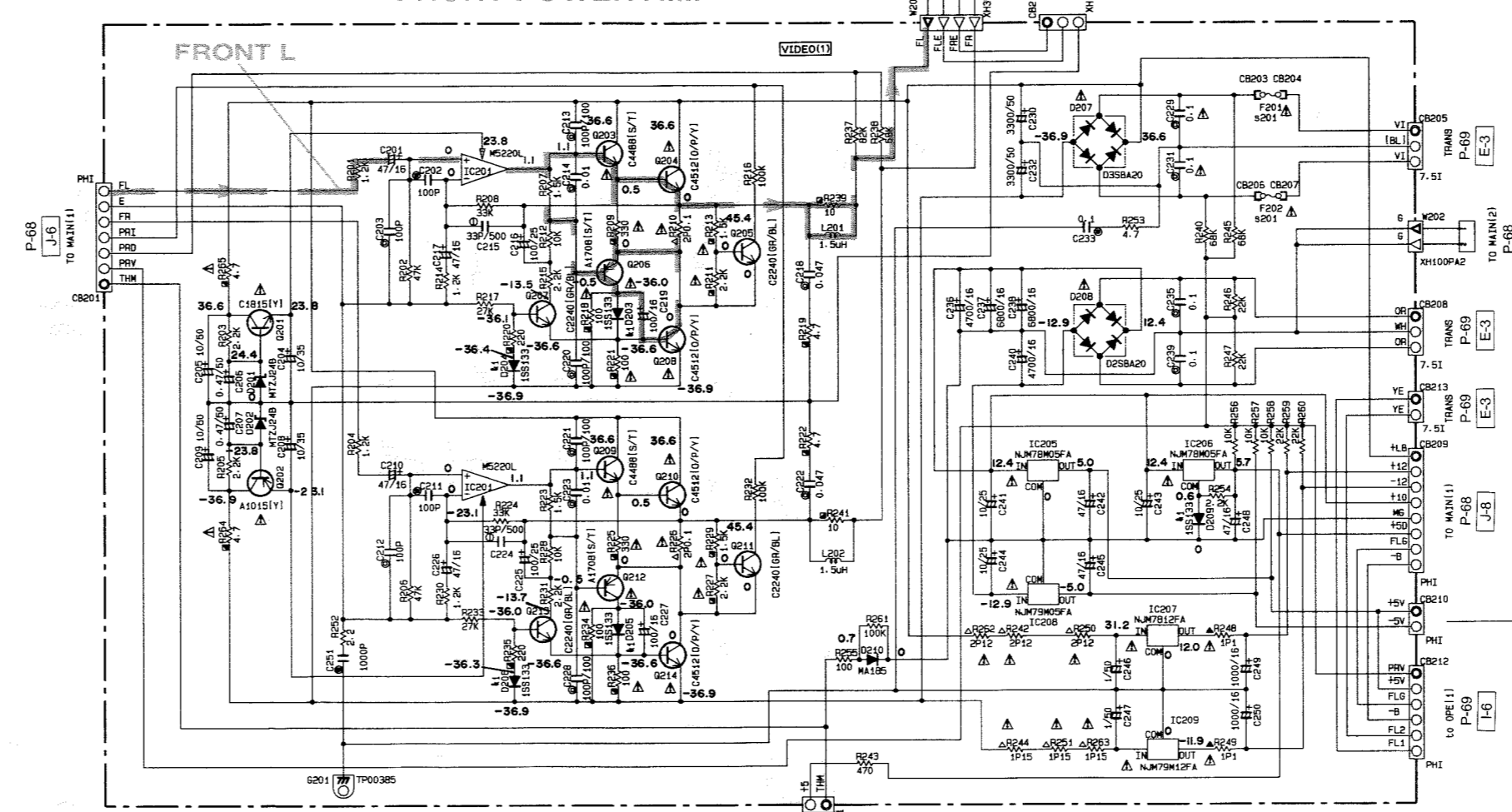
Table with 2 columns: INPUT STATES (INHIBIT, C, B, A) and 'ON' CHANNEL (S). It lists 8 possible input combinations and their corresponding channel outputs.

VOLTAGE SELECTOR

Table with 2 columns: Voltage (110V, 120V, 240V, 220V) and corresponding switch positions (1-2, 3-4, 5-6, 7-8).

FRONT POWER AMP

POWER SUPPLY

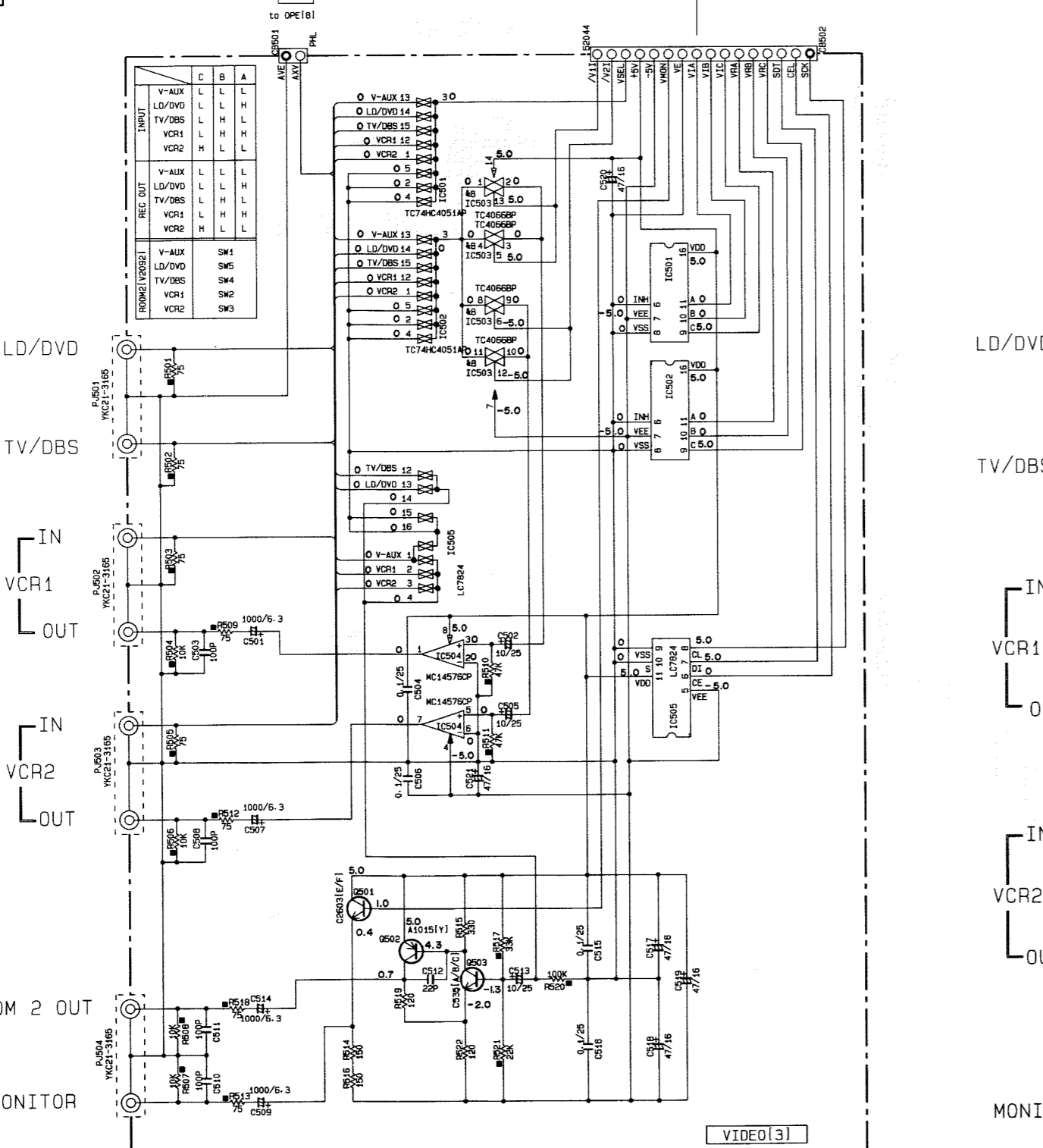


IC201 : M5220L

Dual OP-Amp

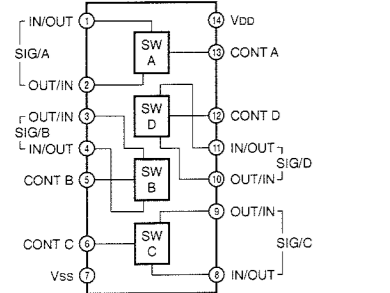
REGULATOR

VIDEO SIGNAL SELECTOR & AMP



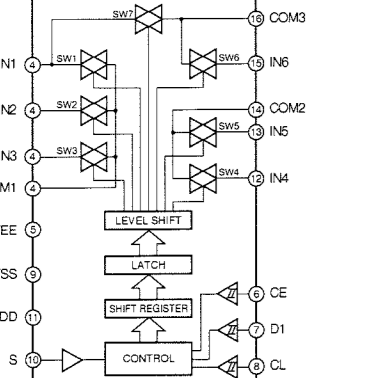
IC503, 605 : TC4065BP

Quad Analog Switch/Multiplexer



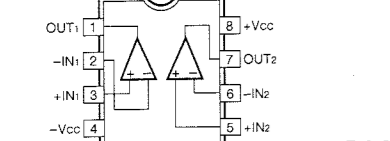
IC505 : LC7824

Analog Function Switch

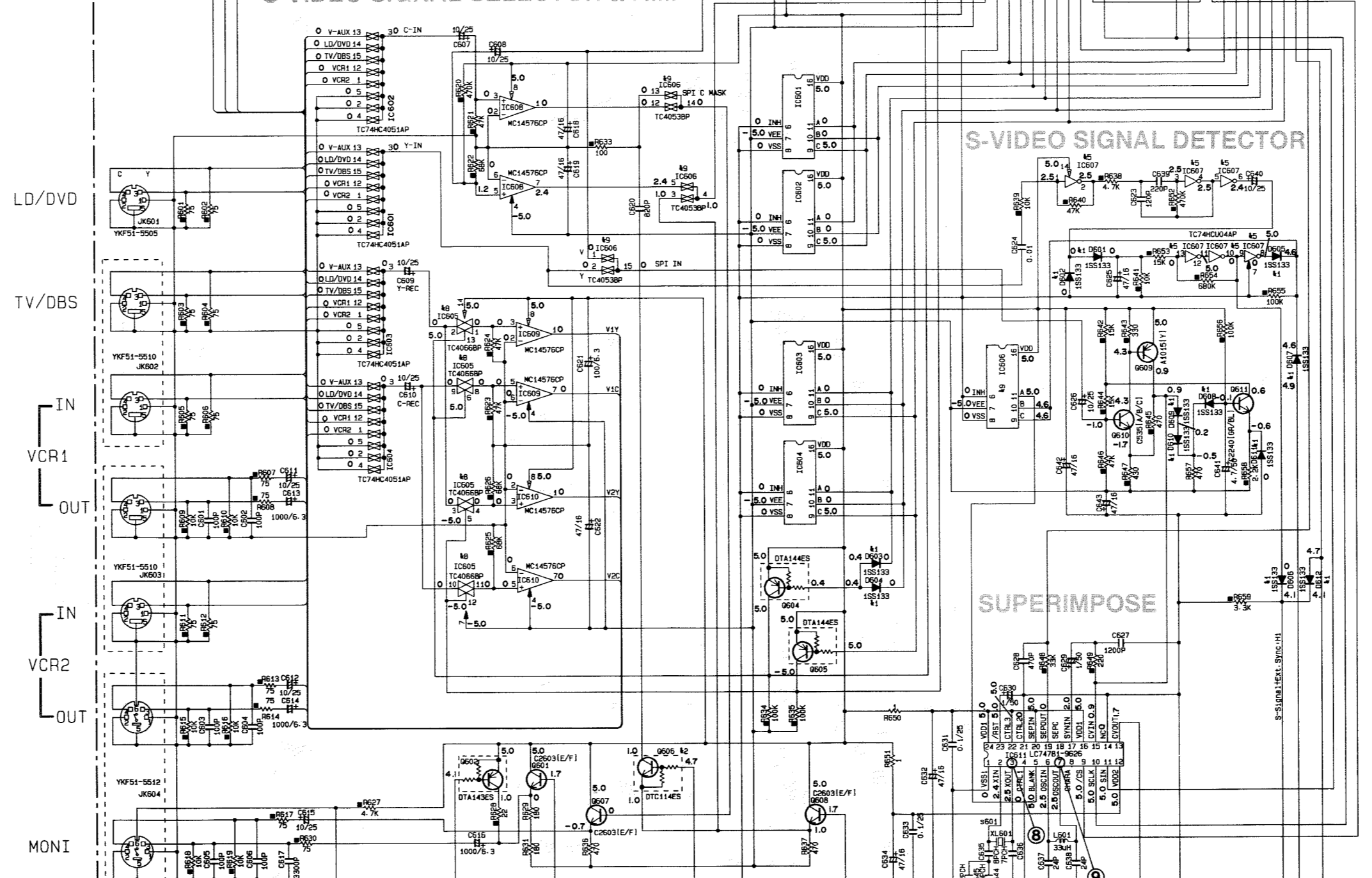


IC504, 608-610 : MC14576CP

Dual Video Amp



S-VIDEO SIGNAL SELECTOR & AMP

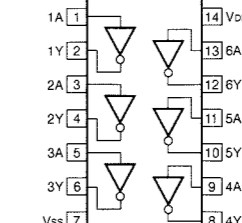


CIRCUIT CHANGES BY MARKET

Table showing circuit changes by market. Columns include Part No., U.S. Part No., U.S. Part Name, and other regional part numbers. Includes a legend for 'NOT USED' and 'USED' symbols.

IC607 : TC74HC04AP

Hex Inverters



NOTICE (model) (J)..... JAPANESE (U)..... U.S.A (C)..... CANADIAN (R)..... GENERAL (A)..... AUSTRALIAN (E)..... BRITISH (G)..... EUROPEAN (T)..... CHINA (L)..... SINGAPORE

Interchangeable Parts at Manufacturer-Stage

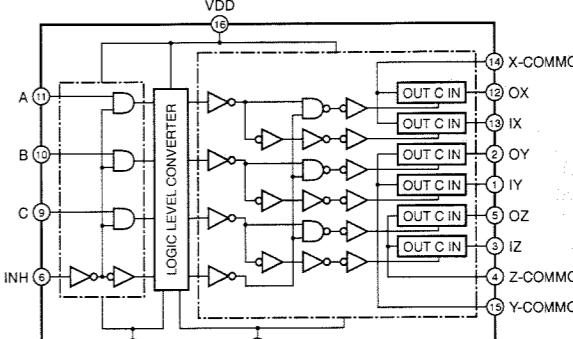
Table listing interchangeable parts at manufacturer stage, including part numbers and names for resistors and capacitors.

Table listing resistor part names and their corresponding symbols used in the schematic.

Table listing capacitor part names and their corresponding symbols used in the schematic.

IC606 : TC4053BP

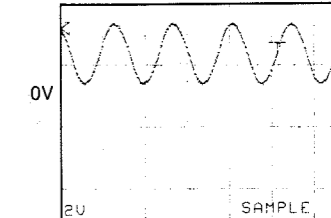
Triple 2-Channel Multiplexer/Demultiplexer



Point (A) (Pin3 of IC611)

V : 2V/div H : 50 nsec/div

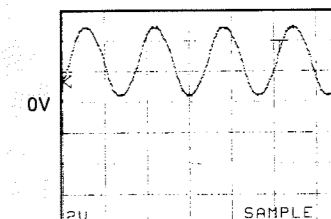
DC range 1 : 1 probe



Point (B) (Pin7 of IC611)

V : 2V/div H : 0.1 usec/div

DC range 1 : 1 probe



Other ICs

IC611 : LC74781-9626 - See page 37

All voltages are measured with a 10MΩ/DC electric volt meter. Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed. Schematic diagram is subject to change without notice.

PARTS LIST

■ ELECTRICAL PARTS

■ WARNING

Components having special characteristics are marked \triangle and must be replaced with parts having specifications equal to those originally installed.

- Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the part Nos. of the carbon resistors refer to the last page.
- Flame proof carbon resistors and chip resistors are listed on page 84.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

| | | | |
|------------|--------------------------------|------------|--------------------------------|
| C.A.EL.CHP | : CHIP ALUMI. ELECTROLYTIC CAP | L.EMIT | : LIGHT EMITTING MODULE |
| C.CE | : CERAMIC CAP | LED.DSPLY | : LED DISPLAY |
| C.CE.ARRAY | : CERAMIC CAP ARRAY | LED.INFRD | : LED, INFRARED |
| C.CE.CHP | : CHIP CERAMIC CAP | MODUL.RF | : MODULATOR, RF |
| C.CE.ML | : MULTILAYER CERAMIC CAP | PHOT.CPL | : PHOTO COUPLER |
| C.CE.M.CHP | : CHIP MULTILAYER CERAMIC CAP | PHOT.INTR | : PHOTO INTERRUPTER |
| C.CE.SAFTY | : RECOGNIZED CERAMIC CAP | PHOT.RFLCT | : PHOTO REFLECTOR |
| C.CE.TUBLR | : CERAMIC TUBULAR CAP | PIN.TEST | : PIN, TEST POINT |
| C.CE.SMI | : SEMI CONDUCTIVE CERAMIC CAP. | PLST.RIVET | : PLASTIC RIVET |
| C.EL | : ELECTROLYTIC CAP | R.ARRAY | : RESISTOR ARRAY |
| C.MICA | : MICA CAP | R.CAR | : CARBON RESISTOR |
| C.ML.FLM | : MULTILAYER FILM CAP | R.CAR.CHP | : CHIP RESISTOR |
| C.MP | : METALLIZED PAPER CAP | R.CAR.FP | : FLAME PROOF CARBON RESISTOR |
| C.MYLAR | : MYLAR FILM CAP | R.FUS | : FUSABLE RESISTOR |
| C.MYLAR.ML | : MULTILAYER MYLAR FILM CAP | R.MTL.CHP | : CHIP METAL FILM RESISTOR |
| C.PAPER | : PAPER CAPACITOR | R.MTL.FLM | : METAL FILM RESISTOR |
| C.PLS | : POLYSTYRENE FILM CAP | R.MTL.OXD | : METAL OXIDE FILM RESISTOR |
| C.POL | : POLYESTER FILM CAP | R.MTL.PLAT | : METAL PLATE RESISTOR |
| C.POLY | : POLYETHYLENE FILM CAP | RSNR.CE | : CERAMIC RESONATOR |
| C.PP | : POLYPROPYLENE FILM CAP | RSNR.CRYS | : CRYSTAL RESONATOR |
| C.TNTL | : TANTALUM CAP | R.TW.CEM | : TWIN CEMENT FIXED RESISTOR |
| C.TNTL.CHP | : CHIP TANTALUM CAP | R.WW | : WIRE WOUND RESISTOR |
| C.TRIM | : TRIMMER CAP | SCR.BND.HD | : BIND HEAD B-TITE SCREW |
| CN | : CONNECTOR | SCR.BW.HD | : BW HEAD TAPPING SCREW |
| CN.BS.PIN | : CONNECTOR, BASE PIN | SCR.CUP | : CUP TITE SCREW |
| CN.CANNON | : CONNECTOR, CANNON | SCR.TERM | : SCREW TERMINAL |
| CN.DIN | : CONNECTOR, DIN | SCR.TR | : SCREW, TRANSISTOR |
| CN.FLAT | : CONNECTOR, FLAT CABLE | SUPRT.PCB | : SUPPORT, P.C.B. |
| CN.POST | : CONNECTOR, BASE POST | SURG.PRTCT | : SURGE PROTECTOR |
| COIL.MX.AM | : COIL, AM MIX | SW.TACT | : TACT SWITCH |
| COIL.AT.FM | : COIL, FM ANTENNA | SW.LEAF | : LEAF SWITCH |
| COIL.DT.FM | : COIL, FM DETECT | SW.LEVER | : LEVER SWITCH |
| COIL.MX.FM | : COIL, FM MIX | SW.MICRO | : MICRO SWITCH |
| COIL.OUTPT | : OUTPUT COIL | SW.PUSH | : PUSH SWITCH |
| DIOD.ARRAY | : DIODE ARRAY | SW.RT.ENC | : ROTARY ENCODER |
| DIODE.BRG | : DIODE BRIDGE | SW.RT.MTR | : ROTARY SWITCH WITH MOTOR |
| DIODE.CHP | : CHIP DIODE | SW.RT | : ROTARY SWITCH |
| DIODE.VAR | : VARACTOR DIODE | SW.SLIDE | : SLIDE SWITCH |
| DIOD.Z.CHP | : CHIP ZENER DIODE | TERM.SP | : SPEAKER TERMINAL |
| DIODE.ZENR | : ZENER DIODE | TERM.WRAP | : WRAPPING TERMINAL |
| DSCR.CE | : CERAMIC DISCRIMINATOR | THRMST.CHP | : CHIP THERMISTOR |
| FER.BEAD | : FERRITE BEADS | TR.CHP | : CHIP TRANSISTOR |
| FER.CORE | : FERRITE CORE | TR.DGT | : DIGITAL TRANSISTOR |
| FET.CHP | : CHIP FET | TR.DGT.CHP | : CHIP DIGITAL TRANSISTOR |
| FL.DSPLY | : FLUORESCENT DISPLAY | TRANS | : TRANSFORMER |
| FLTR.CE | : CERAMIC FILTER | TRANS.PULS | : PULSE TRANSFORMER |
| FLTR.COMB | : COMB FILTER MODULE | TRANS.PWR | : POWER TRANSFORMER ASS'y |
| FLTR.LC.RF | : LC FILTER ,EMI | TUNER.AM | : TUNER PACK, AM |
| GND.MTL | : GROUND PLATE | TUNER.FM | : TUNER PACK, FM |
| GND.TERM | : GROUND TERMINAL | TUNER.PK | : FRONT-END TUNER PACK |
| HOLDER.FUS | : FUSE HOLDER | VR | : ROTARY POTENTIOMETER |
| IC.PRTCT | : IC PROTECTOR | VR.MTR | : POTENTIOMETER WITH MOTOR |
| JUMPER.CN | : JUMPER CONNECTOR | VR.SW | : POTENTIOMETER WITH ROTARY SW |
| JUMPER.TST | : JUMPER, TEST POINT | VR.SLIDE | : SLIDE POTENTIOMETER |
| L.DTCT | : LIGHT DETECTING MODULE | VR.TRIM | : TRIMMER POTENTIOMETER |

Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

P.C.B. TUNER & FUNCTION

RX-V2092

| Schm Ref. | PART NO. | Description |
|-----------|----------|---------------------------|
| | VV610200 | P. C. B. TUNER(UC) |
| | VV610300 | P. C. B. TUNER(R) |
| | VV610400 | P. C. B. TUNER(AL) |
| CB4 | VQ961800 | CN. BS. PIN 15P |
| C1 | VG287800 | C. EL 330uF 16V |
| C2 | UB044100 | C. CE. M. CHP 0.01uF 50V |
| C3 | UB050800 | C. CE. M. CHP 8pF 50V |
| C4 | VG291200 | C. EL 47uF 50V |
| C5 | UB044100 | C. CE. M. CHP 0.01uF 50V |
| C6 | VG288900 | C. EL 100uF 25V |
| C7 | VJ839100 | C. EL 1uF 50V |
| C8 | UB044100 | C. CE. M. CHP 0.01uF 50V |
| C9 | UB044100 | C. CE. M. CHP 0.01uF 50V |
| C10 | UB044100 | C. CE. M. CHP 0.01uF 50V |
| C11 | UB013100 | C. CE. M. CHP 1000pF 50V |
| C12 | VJ836900 | C. EL 10uF 16V |
| C13 | VJ836900 | C. EL 10uF 16V |
| C14 | UB052100 | C. CE. M. CHP 100pF 50V |
| C15 | UB013100 | C. CE. M. CHP 1000pF 50V |
| C16 | UB051470 | C. CE. M. CHP 47pF 50V |
| C17 | VG291200 | C. EL 47uF 50V |
| C18 | UB044470 | C. CE. M. CHP 0.047uF 50V |
| C19 | VA761200 | C. CE 33pF 50V |
| C20 | VG291200 | C. EL 47uF 50V |
| C21 | UB044470 | C. CE. M. CHP 0.047uF 50V |
| C22 | UM216330 | C. EL 3.3uF 50V |
| C23 | UB044100 | C. CE. M. CHP 0.01uF 50V |
| C24 | UM416470 | C. EL 4.7uF 50V |
| C25 | UM216330 | C. EL 3.3uF 50V |
| C26 | VJ836900 | C. EL 10uF 16V |
| C27 | UB044100 | C. CE. M. CHP 0.01uF 50V |
| C28 | VA761200 | C. CE 33pF 50V |
| C29 | VJ839100 | C. EL 1uF 50V |
| C30 | VJ839100 | C. EL 1uF 50V |
| C31 | VG291200 | C. EL 47uF 50V |
| C32 | VJ839000 | C. EL 0.47uF 50V |
| C33 | VJ839100 | C. EL 1uF 50V |
| C34 | UA654470 | C. MYLAR 0.047uF 50V |
| C35 | UM216330 | C. EL 3.3uF 50V |
| C36 | UA652470 | C. MYLAR 470pF 50V(AL) |
| C36 | UA653100 | C. MYLAR 1000pF 50V(UCR) |
| C37 | UA652470 | C. MYLAR 470pF 50V(AL) |
| C37 | UA653100 | C. MYLAR 1000pF 50V(UCR) |
| C38 | UB012470 | C. CE. M. CHP 470pF 50V |
| C39 | VJ836900 | C. EL 10uF 16V |
| C40 | UM216330 | C. EL 3.3uF 50V |
| C41 | UA653390 | C. MYLAR 3900pF 50V |
| C42 | UM407220 | C. EL 22uF 16V |
| C43 | UA653390 | C. MYLAR 3900pF 50V |
| C44 | UM216330 | C. EL 3.3uF 50V |
| C45 | VG291200 | C. EL 47uF 50V |
| C46 | VG291200 | C. EL 47uF 50V |
| C49 | UA652120 | C. MYLAR 120pF 50V(AL) |

* New Parts

| Schm Ref. | PART NO. | Description |
|-----------|----------|-----------------------------|
| C50 | UB044470 | C. CE. M. CHP 0.047uF 50V |
| D1 | VT332900 | DIODE 1SS355 |
| D2 | VT332900 | DIODE 1SS355 |
| D3 | VU993100 | DIODE. ZENR MA8056-H 5.8V |
| Fi1 | GG000560 | FLTR. CE SFE10.7MS3GHY-A |
| Fi2 | GG000560 | FLTR. CE SFE10.7MS3GHY-A |
| Fi3 | VC219000 | FLTR. CE SFZ450JL3 |
| IC1 | XB760A00 | IC LA1266 |
| IC2 | XQ944A00 | IC LC72131 |
| IC3 | iG158100 | IC LA3401 |
| L1 | VU889500 | COIL 220uH |
| L2 | VU889500 | COIL 220uH |
| L3 | VU889500 | COIL 220uH |
| PK1 | VQ987600 | TUNER. PK EXV-17296G1 (AL) |
| PK1 | VR242200 | TUNER. PK EXV-17296G1 (UCR) |
| PK2 | VU333700 | COIL. RF. AM 940536051A |
| Q1 | iC053540 | TR 2SC535 A, B, C |
| Q2 | iC053540 | TR 2SC535 A, B, C |
| Q3 | VD678500 | TR. DGT DTA114ES |
| Q4 | VC218900 | TR 2SC3330 R, S, T |
| Q5 | VG722000 | TR. DGT DTC144ES |
| Q6 | iC1815C0 | TR 2SC1815 Y |
| Q7 | VD678500 | TR. DGT DTA114ES |
| SW1 | VS602600 | SW. SLIDE SS070-P022 A(R) |
| T1 | VC218600 | COIL. DT. FM 10.7MHz |
| T2 | VR895700 | COIL. IF 450KHz |
| T3 | VT486800 | COIL XYA2(AL) |
| T4 | VQ138200 | FLTR. LC 19KHz |
| T5 | VQ138200 | FLTR. LC 19KHz |
| TE1 | VU477800 | TERM. ANT AJ-2038-040 |
| TP1 | VT969000 | PIN. TEST IRS-2049 |
| TP2 | VT969000 | PIN. TEST IRS-2049 |
| VR1 | VJ694000 | VR. TRIM B47KΩ |
| VR2 | VJ694000 | VR. TRIM B47KΩ |
| XL1 | QU003800 | RSNR. CRYST 7.2MHz |
| XL2 | GG000750 | RSNR. CE 18.95MHz |
| | BB071360 | SCR. TERM 8.3x13 |
| | VR282500 | PLATE ANT. |
| * | VY769900 | P. C. B. FUNCTION(UC) |
| * | VY770000 | P. C. B. FUNCTION(R) |
| * | VY770100 | P. C. B. FUNCTION(AL) |
| CB2 | VN066500 | CN. BS. PIN 12P |
| CB3 | VN394900 | CN. BS. PIN 14P |
| CB4 | VB858200 | CN. BS. PIN 3P |
| CB5 | VQ044500 | CN. BS. PIN 11P |
| CB7 | VM929900 | CN. BS. PIN 15P |
| CB71 | VQ045600 | CN. BS. PIN 27P |
| * CB111 | VQ044700 | CN. BS. PIN 16P |
| CB112 | VP113500 | CN. BS. PIN 10P |
| CB115 | VQ047400 | CN. BS. PIN 19P |

* New Parts

P.C.B. FUNCTION

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|---------|----------|
| CB201 | VT620100 | L. DTCT | 1P | TORX178A |
| CB202 | VQ963600 | CN. BS. PIN | 15P | |
| * CB203 | VV073000 | CN. BS. PIN | 12P | |
| * CB204 | VV074800 | SOCKET | 12P | |
| CB205 | VB858200 | CN. BS. PIN | 3P | |
| CB206 | VQ047500 | CN. BS. PIN | 20P | |
| CB207 | VQ047800 | CN. BS. PIN | 27P | |
| CB208 | VM859500 | CN. BS. PIN | 11P | |
| CB209 | VP113500 | CN. BS. PIN | 10P | |
| CB211 | VQ046900 | CN. BS. PIN | 5P | |
| C1 | UB012470 | C. CE. M. CHP | 470pF | 50V |
| C2 | VF637900 | C. EL | 1000uF | 10V |
| C3 | VF637900 | C. EL | 1000uF | 10V |
| C4 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C5 | VI740700 | C. EL | 4700uF | 5. 5V |
| C6 | UM417100 | C. EL | 10uF | 50V |
| C7 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C8 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C9 | VJ839000 | C. EL | 0. 47uF | 50V |
| C10 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C11 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C12 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C13 | VJ837200 | C. EL | 47uF | 16V |
| C19 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C22 | VJ839200 | C. EL | 2. 2uF | 50V |
| C23 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C24 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C25 | VF637900 | C. EL | 1000uF | 10V |
| C26 | VJ839200 | C. EL | 2. 2uF | 50V |
| C27 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C28 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C29 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C30 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C71 | VQ645600 | C. MYLAR | 100pF | 50V |
| C72 | VQ645600 | C. MYLAR | 100pF | 50V |
| C73 | UA652100 | C. MYLAR | 100pF | 50V |
| C74 | UA652100 | C. MYLAR | 100pF | 50V |
| C75 | UA652100 | C. MYLAR | 100pF | 50V |
| C76 | UA652100 | C. MYLAR | 100pF | 50V |
| C77 | FG211470 | C. CE | 47pF | 50V |
| C78 | FG211470 | C. CE | 47pF | 50V |
| C79 | UA652100 | C. MYLAR | 100pF | 50V |
| C80 | UA652100 | C. MYLAR | 100pF | 50V |
| C81 | FG211470 | C. CE | 47pF | 50V |
| C82 | FG211470 | C. CE | 47pF | 50V |
| C83 | UA652470 | C. MYLAR | 470pF | 50V |
| C84 | UA652470 | C. MYLAR | 470pF | 50V |
| C85 | VJ839100 | C. EL | 1uF | 50V |
| C86 | VJ837200 | C. EL | 47uF | 16V |
| C87 | UA652100 | C. MYLAR | 100pF | 50V |
| C88 | UA652100 | C. MYLAR | 100pF | 50V |
| C89 | VJ837200 | C. EL | 47uF | 16V |
| C90 | VJ839100 | C. EL | 1uF | 50V |

* New Parts

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|----------|-----|
| C91 | VJ839100 | C. EL | 1uF | 50V |
| C92 | VJ837200 | C. EL | 47uF | 16V |
| C93 | VJ837200 | C. EL | 47uF | 16V |
| C94 | UM417100 | C. EL | 10uF | 50V |
| C95 | UM417100 | C. EL | 10uF | 50V |
| C111 | VJ837200 | C. EL | 47uF | 16V |
| C112 | VJ837200 | C. EL | 47uF | 16V |
| C113 | VJ837200 | C. EL | 47uF | 16V |
| C114 | VJ837200 | C. EL | 47uF | 16V |
| C115 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C116 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C117 | VJ837200 | C. EL | 47uF | 16V |
| C118 | VJ837200 | C. EL | 47uF | 16V |
| C119 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C120 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C122 | VJ837200 | C. EL | 47uF | 16V |
| C123 | VJ837200 | C. EL | 47uF | 16V |
| C124 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C125 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C126 | UM407220 | C. EL | 22uF | 16V |
| C127 | VQ645600 | C. MYLAR | 100pF | 50V |
| C130 | VQ645600 | C. MYLAR | 100pF | 50V |
| C131 | UM407220 | C. EL | 22uF | 16V |
| C132 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C133 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C134 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C135 | UA654390 | C. MYLAR | 0. 039uF | 50V |
| C136 | UM417100 | C. EL | 10uF | 50V |
| C137 | UA654330 | C. MYLAR | 0. 033uF | 50V |
| C138 | UA654130 | C. MYLAR | 0. 013uF | 50V |
| C139 | UM417100 | C. EL | 10uF | 50V |
| C140 | UM416470 | C. EL | 4. 7uF | 50V |
| C141 | UM417100 | C. EL | 10uF | 50V |
| C142 | UM417100 | C. EL | 10uF | 50V |
| C143 | UM416470 | C. EL | 4. 7uF | 50V |
| C144 | UM417100 | C. EL | 10uF | 50V |
| C145 | UM416470 | C. EL | 4. 7uF | 50V |
| C146 | UM417100 | C. EL | 10uF | 50V |
| C147 | UM417100 | C. EL | 10uF | 50V |
| C148 | UM416470 | C. EL | 4. 7uF | 50V |
| C149 | UM416470 | C. EL | 4. 7uF | 50V |
| C150 | UM417100 | C. EL | 10uF | 50V |
| C151 | UM417100 | C. EL | 10uF | 50V |
| C152 | UM416470 | C. EL | 4. 7uF | 50V |
| C153 | UA655100 | C. MYLAR | 0. 1uF | 50V |
| C154 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C155 | UM417100 | C. EL | 10uF | 50V |
| C156 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C157 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C158 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C159 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C160 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C161 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |

* New Parts

P.C.B. FUNCTION

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|----------|-----|
| C201 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C202 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C203 | VJ839200 | C. EL | 2. 2uF | 50V |
| C204 | VJ839200 | C. EL | 2. 2uF | 50V |
| C205 | UA653910 | C. MYLAR | 9100pF | 50V |
| C206 | UA654330 | C. MYLAR | 0. 033uF | 50V |
| C207 | VE117600 | C. EL | 220uF | 10V |
| C208 | VE117600 | C. EL | 220uF | 10V |
| C209 | UA653910 | C. MYLAR | 9100pF | 50V |
| C210 | UA654330 | C. MYLAR | 0. 033uF | 50V |
| C211 | UA652100 | C. MYLAR | 100pF | 50V |
| C212 | UA652220 | C. MYLAR | 220pF | 50V |
| C213 | UA652100 | C. MYLAR | 100pF | 50V |
| C214 | UA652220 | C. MYLAR | 220pF | 50V |
| C215 | VJ839200 | C. EL | 2. 2uF | 50V |
| C216 | VJ839200 | C. EL | 2. 2uF | 50V |
| C217 | VQ645600 | C. MYLAR | 100pF | 50V |
| C218 | VQ645600 | C. MYLAR | 100pF | 50V |
| C221 | UA652100 | C. MYLAR | 100pF | 50V |
| C222 | UA652100 | C. MYLAR | 100pF | 50V |
| C223 | FG211470 | C. CE | 47pF | 50V |
| C224 | FG211470 | C. CE | 47pF | 50V |
| C225 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C226 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C227 | UM407220 | C. EL | 22uF | 16V |
| C228 | UB051220 | C. CE. M. CHP | 22pF | 50V |
| C229 | UB051220 | C. CE. M. CHP | 22pF | 50V |
| C230 | UM407220 | C. EL | 22uF | 16V |
| C231 | VF760000 | C. EL | 100uF | 10V |
| C232 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C233 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C234 | VF964800 | C. EL | 100uF | 16V |
| C235 | UA653100 | C. MYLAR | 1000pF | 50V |
| C236 | UA653100 | C. MYLAR | 1000pF | 50V |
| C237 | VF964800 | C. EL | 100uF | 16V |
| C238 | VJ837200 | C. EL | 47uF | 16V |
| C239 | VJ837200 | C. EL | 47uF | 16V |
| C240 | UM417100 | C. EL | 10uF | 50V |
| C241 | UB012220 | C. CE. M. CHP | 220pF | 50V |
| C242 | UM417100 | C. EL | 10uF | 50V |
| C243 | UB013100 | C. CE. M. CHP | 1000pF | 50V |
| C244 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C245 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C246 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C247 | UM417100 | C. EL | 10uF | 50V |
| C248 | UM417100 | C. EL | 10uF | 50V |
| C249 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C250 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C251 | UA654270 | C. MYLAR | 0. 027uF | 50V |
| C252 | UM417100 | C. EL | 10uF | 50V |
| C253 | UM417100 | C. EL | 10uF | 50V |
| C254 | UM417100 | C. EL | 10uF | 50V |
| C255 | UM417100 | C. EL | 10uF | 50V |

* New Parts

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|--------|-----|
| C256 | UM417100 | C. EL | 10uF | 50V |
| C257 | UM417100 | C. EL | 10uF | 50V |
| C258 | UM417100 | C. EL | 10uF | 50V |
| C259 | VJ839100 | C. EL | 1uF | 50V |
| C260 | UA652100 | C. MYLAR | 100pF | 50V |
| C261 | UM407220 | C. EL | 22uF | 16V |
| C262 | UA652100 | C. MYLAR | 100pF | 50V |
| C263 | UA652100 | C. MYLAR | 100pF | 50V |
| C264 | UA652100 | C. MYLAR | 100pF | 50V |
| C265 | UM407220 | C. EL | 22uF | 16V |
| C266 | VJ839100 | C. EL | 1uF | 50V |
| C270 | UA652100 | C. MYLAR | 100pF | 50V |
| C271 | UA652100 | C. MYLAR | 100pF | 50V |
| C273 | UM417100 | C. EL | 10uF | 50V |
| C274 | UM417100 | C. EL | 10uF | 50V |
| C275 | UA653330 | C. MYLAR | 3300pF | 50V |
| C276 | UA653270 | C. MYLAR | 2700pF | 50V |
| C277 | UA653120 | C. MYLAR | 1200pF | 50V |
| C278 | UA653100 | C. MYLAR | 1000pF | 50V |
| C279 | FG212150 | C. CE | 150pF | 50V |
| C280 | FG212150 | C. CE | 150pF | 50V |
| C281 | FG212150 | C. CE | 150pF | 50V |
| C282 | FG212150 | C. CE | 150pF | 50V |
| C283 | UA653120 | C. MYLAR | 1200pF | 50V |
| C284 | UA653100 | C. MYLAR | 1000pF | 50V |
| C285 | UA653330 | C. MYLAR | 3300pF | 50V |
| C286 | UA653270 | C. MYLAR | 2700pF | 50V |
| C288 | VJ837200 | C. EL | 47uF | 16V |
| C290 | UM407220 | C. EL | 22uF | 16V |
| C291 | UM407220 | C. EL | 22uF | 16V |
| C292 | VJ837200 | C. EL | 47uF | 16V |
| C293 | VJ837200 | C. EL | 47uF | 16V |
| C295 | UB051100 | C. CE. M. CHP | 10pF | 50V |
| C296 | VJ837200 | C. EL | 47uF | 16V |
| C297 | VJ837200 | C. EL | 47uF | 16V |
| C299 | VJ837200 | C. EL | 47uF | 16V |
| C300 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C301 | UA652100 | C. MYLAR | 100pF | 50V |
| C302 | UA652100 | C. MYLAR | 100pF | 50V |
| C303 | UA652100 | C. MYLAR | 100pF | 50V |
| C304 | UA652100 | C. MYLAR | 100pF | 50V |
| C305 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C306 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C307 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C308 | UB051470 | C. CE. M. CHP | 47pF | 50V |
| C309 | UB051470 | C. CE. M. CHP | 47pF | 50V |
| C310 | VD930900 | C. CE. SMI | 0. 1uF | 25V |
| D1 | iF004600 | DIODE | 1SS133 | |
| D2 | iF004600 | DIODE | 1SS133 | |
| D3 | iF004600 | DIODE | 1SS133 | |
| D4 | iF004600 | DIODE | 1SS133 | |
| D5 | iF004600 | DIODE | 1SS133 | |
| D6 | iF004600 | DIODE | 1SS133 | |

* New Parts

P.C.B. FUNCTION & DSP

RX-V2092

| Schm Ref. | PART NO. | Description |
|-----------|----------|---------------------------|
| D7 | VG437300 | DIODE. ZENR MTZJ5.1A 5.1V |
| D8 | iF004600 | DIODE 1SS133 |
| D9 | iF004600 | DIODE 1SS133 |
| D10 | VG438200 | DIODE. ZENR MTZJ6.8A 6.8V |
| D11 | iF004600 | DIODE 1SS133 |
| D12 | VG437400 | DIODE. ZENR MTZJ5.1B 5.1V |
| D13 | VG437300 | DIODE. ZENR MTZJ5.1A 5.1V |
| D71 | VG437400 | DIODE. ZENR MTZJ5.1B 5.1V |
| D201 | VG439200 | DIODE. ZENR MTZJ9.1B 9.1V |
| D202 | VG439200 | DIODE. ZENR MTZJ9.1B 9.1V |
| D203 | iF004600 | DIODE 1SS133 |
| D204 | iF004600 | DIODE 1SS133 |
| * IC1 | XS670C00 | IC HD6433614P-XXX CPU |
| IC2 | XL493A00 | IC TC74HC4051AP |
| IC3 | XJ757A00 | IC NJM78L05A-T3 |
| IC4 | XF494A00 | IC LB1641 |
| IC71 | XE536001 | IC LC7535 |
| IC72 | XB247301 | IC uPC4570HA |
| IC111 | XP896A00 | IC LC78213 |
| IC112 | XRO40A00 | IC TC9299P |
| IC113 | XRO40A00 | IC TC9299P |
| IC114 | XRO40A00 | IC TC9299P |
| IC115 | XRO40A00 | IC TC9299P |
| IC116 | XM356A00 | IC NJM2068LD |
| IC117 | XB247301 | IC uPC4570HA |
| IC118 | XB247301 | IC uPC4570HA |
| IC119 | XB247301 | IC uPC4570HA |
| IC120 | XB247301 | IC uPC4570HA |
| IC121 | XB247301 | IC uPC4570HA |
| IC122 | XB247301 | IC uPC4570HA |
| IC123 | XB247301 | IC uPC4570HA |
| IC201 | XM356A00 | IC NJM2068LD |
| IC202 | XP581A00 | IC TC9273N-009 |
| IC203 | XP580A00 | IC TC9273N-004 |
| IC204 | XP581A00 | IC TC9273N-009 |
| IC205 | iG001270 | IC TC4066BP |
| IC206 | XB247301 | IC uPC4570HA |
| IC207 | XB247301 | IC uPC4570HA |
| IC208 | XB247301 | IC uPC4570HA |
| IC209 | XB247301 | IC uPC4570HA |
| IC210 | XB247301 | IC uPC4570HA |
| IC211 | XB247301 | IC uPC4570HA |
| IC212 | XB247301 | IC uPC4570HA |
| IC213 | XB247301 | IC uPC4570HA |
| IC214 | XB247301 | IC uPC4570HA |
| IC215 | XP894A00 | IC LC78211 |
| IC216 | XP896A00 | IC LC78213 |
| IC217 | iG142200 | IC TC74HC04AP |
| IC218 | iR015300 | IC TC74HC153AP MPX |
| L201 | GE901970 | COIL 68uH |
| PJ71 | VJ696300 | JACK. PIN 4P |
| PJ72 | VJ696300 | JACK. PIN 4P |
| PJ73 | VM750600 | JACK. PIN 6P |

* New Parts

| Schm Ref. | PART NO. | Description |
|-----------|----------|--------------------------|
| PJ201 | VQ260900 | JACK. PIN 4P |
| PJ202 | VJ696300 | JACK. PIN 4P |
| * PJ203 | VY667900 | JACK. PIN 2P |
| Q1 | iA093320 | TR 2SA933S Q, R |
| Q2 | VG722000 | TR. DGT DTC144ES |
| Q3 | iA093320 | TR 2SA933S Q, R |
| Q4 | iA093320 | TR 2SA933S Q, R |
| Q5 | iA093320 | TR 2SA933S Q, R |
| Q6 | iA093320 | TR 2SA933S Q, R |
| Q7 | VD678700 | TR. DGT DTC114ES |
| Q71 | iC287820 | TR 2SC2878 A, B |
| Q72 | iC287820 | TR 2SC2878 A, B |
| Q113 | iC287820 | TR 2SC2878 A, B |
| Q114 | iC287820 | TR 2SC2878 A, B |
| Q115 | iC287820 | TR 2SC2878 A, B |
| Q116 | iC287820 | TR 2SC2878 A, B |
| Q117 | iC287820 | TR 2SC2878 A, B |
| Q118 | iC287820 | TR 2SC2878 A, B |
| XL1 | VE222400 | RSNR. CE 8MHz |
| | VJ828000 | PIN IMSA-6024-03E |
| | BB071360 | SCR. TERM 8.3x13 |
| * | VY770200 | P. C. B. DSP (UC) |
| | VZ051100 | P. C. B. DSP (RAL) |
| CB1 | VQ044100 | CN. BS. PIN 5P |
| CB2 | VF982200 | CN. BS. PIN 14P |
| CB3 | VQ045000 | CN. BS. PIN 20P |
| C1 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C2 | UB052100 | C. CE. M. CHP 100pF 50V |
| C3 | UB052100 | C. CE. M. CHP 100pF 50V |
| C5 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C6 | UB051330 | C. CE. M. CHP 33pF 50V |
| C7 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C8 | UB013100 | C. CE. M. CHP 1000pF 50V |
| C9 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C10 | VF760000 | C. EL 100uF 10V |
| C11 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C12 | UB051330 | C. CE. M. CHP 33pF 50V |
| C13 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C14 | UA653470 | C. MYLAR 4700pF 50V |
| C15 | UB052100 | C. CE. M. CHP 100pF 50V |
| C16 | UB052100 | C. CE. M. CHP 100pF 50V |
| C17 | UB052100 | C. CE. M. CHP 100pF 50V |
| C18 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C19 | UB245100 | C. CE. M. CHP 0.1uF 25V |
| C20 | VF760000 | C. EL 100uF 10V |
| C21 | VJ900900 | C. CE. M. CHP 39pF 50V |
| C22 | VJ900700 | C. CE. M. CHP 33pF 50V |
| C23 | UB052100 | C. CE. M. CHP 100pF 50V |
| C24 | UB052100 | C. CE. M. CHP 100pF 50V |
| C25 | UB245100 | C. CE. M. CHP 0.1uF 25V |

* New Parts

P.C.B. DSP

RX-V2092

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|--------|------|
| C26 | VJ900500 | C. CE. M. CHP | 27pF | 50V |
| C27 | VJ900500 | C. CE. M. CHP | 27pF | 50V |
| C28 | UB044100 | C. CE. M. CHP | 0.01uF | 50V |
| C29 | VJ836300 | C. EL | 330uF | 6.3V |
| C30 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C31 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C32 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C33 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C34 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C35 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C36 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C37 | VJ836300 | C. EL | 330uF | 6.3V |
| C38 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C39 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C40 | VJ837200 | C. EL | 47uF | 16V |
| C41 | VJ837200 | C. EL | 47uF | 16V |
| C42 | VJ836300 | C. EL | 330uF | 6.3V |
| C43 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C44 | UB013330 | C. CE. M. CHP | 3300pF | 50V |
| C45 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C46 | UM417100 | C. EL | 10uF | 50V |
| C47 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C48 | UM417100 | C. EL | 10uF | 50V |
| C49 | UM417100 | C. EL | 10uF | 50V |
| C50 | UJ638330 | C. EL | 330uF | 16V |
| C51 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C52 | UB013330 | C. CE. M. CHP | 3300pF | 50V |
| C53 | UB044100 | C. CE. M. CHP | 0.01uF | 50V |
| C54 | UB044100 | C. CE. M. CHP | 0.01uF | 50V |
| C55 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C56 | UB044100 | C. CE. M. CHP | 0.01uF | 50V |
| C57 | UM407220 | C. EL | 22uF | 16V |
| C58 | UA652330 | C. MYLAR | 330pF | 50V |
| C59 | UA652330 | C. MYLAR | 330pF | 50V |
| C60 | UM407220 | C. EL | 22uF | 16V |
| C61 | UM407220 | C. EL | 22uF | 16V |
| C62 | UA652330 | C. MYLAR | 330pF | 50V |
| C63 | UB051330 | C. CE. M. CHP | 33pF | 50V |
| C64 | UB051100 | C. CE. M. CHP | 10pF | 50V |
| C65 | UB051100 | C. CE. M. CHP | 10pF | 50V |
| C66 | UB051330 | C. CE. M. CHP | 33pF | 50V |
| C67 | UB051330 | C. CE. M. CHP | 33pF | 50V |
| C68 | UB051100 | C. CE. M. CHP | 10pF | 50V |
| C69 | UB051100 | C. CE. M. CHP | 10pF | 50V |
| C70 | UB051330 | C. CE. M. CHP | 33pF | 50V |
| C71 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C72 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C73 | UM417100 | C. EL | 10uF | 50V |
| C74 | VJ837200 | C. EL | 47uF | 16V |
| C75 | VJ836300 | C. EL | 330uF | 6.3V |
| C76 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C77 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C78 | UM417100 | C. EL | 10uF | 50V |

* New Parts

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|--------|------|
| C79 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C80 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C81 | UM417100 | C. EL | 10uF | 50V |
| C82 | VJ837200 | C. EL | 47uF | 16V |
| C83 | VJ836300 | C. EL | 330uF | 6.3V |
| C84 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C85 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C86 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C87 | UM417100 | C. EL | 10uF | 50V |
| C88 | UM417100 | C. EL | 10uF | 50V |
| C89 | UM417100 | C. EL | 10uF | 50V |
| C90 | VJ837200 | C. EL | 47uF | 16V |
| C91 | VJ836300 | C. EL | 330uF | 6.3V |
| C92 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C93 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C94 | UM407220 | C. EL | 22uF | 16V |
| C95 | UM407220 | C. EL | 22uF | 16V |
| C96 | UM407220 | C. EL | 22uF | 16V |
| C97 | UA653560 | C. MYLAR | 5600pF | 50V |
| C98 | UA653470 | C. MYLAR | 4700pF | 50V |
| C99 | UA652330 | C. MYLAR | 330pF | 50V |
| C100 | UA653470 | C. MYLAR | 4700pF | 50V |
| C101 | UA652330 | C. MYLAR | 330pF | 50V |
| C102 | UA653560 | C. MYLAR | 5600pF | 50V |
| C103 | UA653560 | C. MYLAR | 5600pF | 50V |
| C104 | UA653470 | C. MYLAR | 4700pF | 50V |
| C105 | UA652330 | C. MYLAR | 330pF | 50V |
| C106 | UA653470 | C. MYLAR | 4700pF | 50V |
| C107 | UA652330 | C. MYLAR | 330pF | 50V |
| C108 | UA653560 | C. MYLAR | 5600pF | 50V |
| C109 | UM417100 | C. EL | 10uF | 50V |
| C110 | UM417100 | C. EL | 10uF | 50V |
| C111 | UM417100 | C. EL | 10uF | 50V |
| C112 | UM417100 | C. EL | 10uF | 50V |
| C113 | VJ837200 | C. EL | 47uF | 16V |
| C114 | VJ837200 | C. EL | 47uF | 16V |
| C115 | VJ837200 | C. EL | 47uF | 16V |
| C116 | VJ837200 | C. EL | 47uF | 16V |
| C117 | UM417100 | C. EL | 10uF | 50V |
| C118 | UM407220 | C. EL | 22uF | 16V |
| C119 | UM407220 | C. EL | 22uF | 16V |
| C120 | FU451100 | C. MICA | 10pF | 500V |
| C121 | FU451100 | C. MICA | 10pF | 500V |
| C122 | FU451100 | C. MICA | 10pF | 500V |
| C123 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C124 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C125 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C126 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C127 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C128 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C129 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C130 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C131 | UB052100 | C. CE. M. CHP | 100pF | 50V |

* New Parts

P.C.B. DSP & VIDEO

RX-V2092

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|-----------------|---------|
| C132 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C133 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C134 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C135 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C136 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C137 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C138 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C139 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C140 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C141 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C142 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C143 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C144 | VJ836300 | C. EL | 330uF | 6.3V |
| C145 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C146 | VJ837200 | C. EL | 47uF | 16V |
| C147 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C148 | VJ837200 | C. EL | 47uF | 16V |
| C149 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C150 | UM417100 | C. EL | 10uF | 50V |
| C151 | UM417100 | C. EL | 10uF | 50V |
| C152 | UM417100 | C. EL | 10uF | 50V |
| C201 | VJ836300 | C. EL | 330uF | 6.3V |
| C202 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C203 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| C204 | UB245100 | C. CE. M. CHP | 0.1uF | 25V |
| D1 | VT332900 | DIODE | 1SS355 | |
| D2 | VT332900 | DIODE | 1SS355 | |
| D3 | VT332900 | DIODE | 1SS355 | |
| D4 | VT332900 | DIODE | 1SS355 | |
| D5 | VT332900 | DIODE | 1SS355 | |
| D6 | VT332900 | DIODE | 1SS355 | |
| D7 | VT332900 | DIODE | 1SS355 | |
| D201 | VH801600 | DIODE | 1SR139-100 | |
| G1 | VR463400 | TERM. GND | D3.5 | TPO0385 |
| G2 | VR463400 | TERM. GND | D3.5 | TPO0385 |
| G3 | VR463400 | TERM. GND | D3.5 | TPO0385 |
| IC1 | XD600A00 | IC | TC74HC02AF-TP1 | NOR |
| IC2 | XR038A00 | IC | NJM2904M | OP AMP |
| IC3 | XG948E00 | IC | YM3436DK | |
| IC4 | XS462B00 | IC | YSS243B-F | AC3F |
| * IC5 | XS282A00 | IC | UM61256FS-15Q | SRAM |
| * IC6 | XH603A00 | IC | TC74HC157AF-TP1 | |
| * IC7 | XS463A00 | IC | YSS245-F | HLDSP3 |
| IC8 | XQ545A00 | IC | LH5P832N-10 | PS-RAM |
| IC9 | XF291A00 | IC | uPC4570G2 | |
| IC10 | XR361A00 | IC | AK4320-VM-E1 | |
| IC11 | XR361A00 | IC | AK4320-VM-E1 | |
| IC12 | XR361A00 | IC | AK4320-VM-E1 | |
| IC13 | XF291A00 | IC | uPC4570G2 | |
| IC14 | XF291A00 | IC | uPC4570G2 | |
| IC15 | XF291A00 | IC | uPC4570G2 | |
| IC16 | iG103520 | IC | NJM4558MT-1 | |
| IC17 | iG103520 | IC | NJM4558MT-1 | |

* New Parts

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|--------------|----------------|-----|
| IC18 | XF291A00 | IC | uPC4570G2 | |
| IC19 | XF291A00 | IC | uPC4570G2 | |
| Q1 | VC124000 | TR. DGT | DTA144EK | |
| Q2 | VC124000 | TR. DGT | DTA144EK | |
| Q3 | VD303700 | TR | 2SC3326 A, B | |
| Q4 | VD303700 | TR | 2SC3326 A, B | |
| Q5 | VD303700 | TR | 2SC3326 A, B | |
| Q201 | iC224030 | TR | 2SC2240 GR, BL | |
| XL1 | Vi551900 | RSNR. CRYST | 11.2896MHz | |
| XL2 | VM651900 | RSNR. CRYST | 10.0MHz | |
| | VZ037100 | PLATE. GND | (UC) | |
| * | VY770300 | P. C. B. | VIDEO(UC) | |
| * | VY770400 | P. C. B. | VIDEO(R) | |
| * | VY770500 | P. C. B. | VIDEO(A) | |
| * | VY770600 | P. C. B. | VIDEO(L) | |
| CB201 | VD005000 | CN. BS. PIN | 7P | |
| CB203 | VP206500 | HOLDER. FUS | EYF-52BC | |
| CB204 | VP206500 | HOLDER. FUS | EYF-52BC | |
| CB205 | LA002320 | TERM. WRAP | 3P | |
| CB206 | VP206500 | HOLDER. FUS | EYF-52BC | |
| CB207 | VP206500 | HOLDER. FUS | EYF-52BC | |
| CB208 | LA002320 | TERM. WRAP | 3P | |
| CB209 | VD005100 | CN. BS. PIN | 8P | |
| CB210 | VD004500 | CN. BS. PIN | 2P | |
| CB211 | VD004500 | CN. BS. PIN | 2P | |
| CB212 | VD004900 | CN. BS. PIN | 6P | |
| CB213 | LA002000 | TERM. WRAP | 2P | |
| CB214 | VL844700 | CN. BS. PIN | 3P | |
| CB501 | VB858100 | CN. BS. PIN | 2P | |
| * CB502 | VQ044700 | CN. BS. PIN | 16P | |
| * CB601 | VB858200 | CN. BS. PIN | 3P | |
| * CB603 | VQ044700 | CN. BS. PIN | 16P | |
| CB604 | VQ047300 | CN. BS. PIN | 12P | |
| △ CB801 | VG879900 | CN. BS. PIN | 2P | |
| CB803 | VP206500 | HOLDER. FUS | EYF-52BC(AL) | |
| CB803 | VS996100 | CLIP. FUSE | EYF64BC(UCR) | |
| CB804 | VP206500 | HOLDER. FUS | EYF-52BC(AL) | |
| CB805 | VS996100 | CLIP. FUSE | EYF64BC(UCR) | |
| CB806 | VP206500 | HOLDER. FUS | EYF-52BC(RL) | |
| CB807 | VP206500 | HOLDER. FUS | EYF-52BC(RL) | |
| CB808 | LA002410 | TERM. WRAP | 2P | |
| CB809 | LA002410 | TERM. WRAP | 2P(R) | |
| C201 | VJ837200 | C. EL | 47uF | 16V |
| C202 | VF466800 | C. CE. TUBLR | 100pF | 50V |
| C203 | UA652100 | C. MYLAR | 100pF | 50V |
| C204 | UM417100 | C. EL | 10uF | 50V |
| C205 | UM417100 | C. EL | 10uF | 50V |
| C206 | VJ839000 | C. EL | 0.47uF | 50V |
| C207 | VJ839000 | C. EL | 0.47uF | 50V |
| C208 | UM417100 | C. EL | 10uF | 50V |

* New Parts

P.C.B. VIDEO

RX-V2092

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|----------|----------|
| C209 | UM417100 | C. EL | 10uF | 50V |
| C210 | VJ837200 | C. EL | 47uF | 16V |
| C211 | VF466800 | C. CE. TUBLR | 100pF | 50V |
| C212 | UA652100 | C. MYLAR | 100pF | 50V |
| C213 | VR325000 | C. MYLAR | 100pF | 100V |
| C214 | UA654100 | C. MYLAR | 0. 01uF | 50V |
| C215 | FU451330 | C. MICA | 33pF | 500V |
| C216 | UJ648100 | C. EL | 100uF | 25V |
| C217 | VJ837200 | C. EL | 47uF | 16V |
| C218 | UA654470 | C. MYLAR | 0. 047uF | 50V |
| C219 | VF964800 | C. EL | 100uF | 16V |
| C220 | VR325000 | C. MYLAR | 100pF | 100V |
| C221 | VR325000 | C. MYLAR | 100pF | 100V |
| C222 | UA654470 | C. MYLAR | 0. 047uF | 50V |
| C223 | UA654100 | C. MYLAR | 0. 01uF | 50V |
| C224 | FU451330 | C. MICA | 33pF | 500V |
| C225 | UJ648100 | C. EL | 100uF | 25V |
| C226 | VJ837200 | C. EL | 47uF | 16V |
| C227 | VF964800 | C. EL | 100uF | 16V |
| C228 | VR325000 | C. MYLAR | 100pF | 100V |
| Δ C229 | UA655100 | C. MYLAR | 0. 1uF | 50V |
| * C230 | VY841300 | C. EL | 3300uF | 50V(UCA) |
| C230 | VN126700 | C. EL | 3300uF | 50V(RL) |
| Δ C231 | UA655100 | C. MYLAR | 0. 1uF | 50V |
| * C232 | VY841300 | C. EL | 3300uF | 50V(UCA) |
| C232 | VN126700 | C. EL | 3300uF | 50V(RL) |
| C233 | VH053100 | C. CE. TUBLR | 0. 1uF | 50V |
| C235 | UA655100 | C. MYLAR | 0. 1uF | 50V |
| C236 | VH520900 | C. EL | 4700uF | 16V |
| C237 | VH507200 | C. EL | 6800uF | 16V |
| C238 | VH507200 | C. EL | 6800uF | 16V |
| C239 | UA655100 | C. MYLAR | 0. 1uF | 50V |
| C240 | VH520900 | C. EL | 4700uF | 16V |
| C241 | UM417100 | C. EL | 10uF | 50V |
| C242 | VJ837200 | C. EL | 47uF | 16V |
| C243 | UM417100 | C. EL | 10uF | 50V |
| C244 | UM417100 | C. EL | 10uF | 50V |
| C245 | VJ837200 | C. EL | 47uF | 16V |
| C246 | VJ839100 | C. EL | 1uF | 50V |
| C247 | VJ839100 | C. EL | 1uF | 50V |
| C248 | VJ837200 | C. EL | 47uF | 16V |
| C249 | VJ651100 | C. EL | 1000uF | 16V |
| C250 | VJ651100 | C. EL | 1000uF | 16V |
| C251 | VF467000 | C. CE. TUBLR | 1000pF | 50V |
| C501 | VF637900 | C. EL | 1000uF | 10V |
| C502 | UM417100 | C. EL | 10uF | 50V |
| C503 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C504 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C505 | UM417100 | C. EL | 10uF | 50V |
| C506 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C507 | VF637900 | C. EL | 1000uF | 10V |
| C508 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C509 | VF637900 | C. EL | 1000uF | 10V |

* New Parts

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|---------|-----|
| C510 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C511 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C512 | UB051220 | C. CE. M. CHP | 22pF | 50V |
| C513 | UM417100 | C. EL | 10uF | 50V |
| C514 | VF637900 | C. EL | 1000uF | 10V |
| C515 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C516 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C517 | VJ837200 | C. EL | 47uF | 16V |
| C518 | VJ837200 | C. EL | 47uF | 16V |
| C519 | VJ837200 | C. EL | 47uF | 16V |
| C520 | VJ837200 | C. EL | 47uF | 16V |
| C521 | VJ837200 | C. EL | 47uF | 16V |
| C601 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C602 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C603 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C604 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C605 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C606 | UB052100 | C. CE. M. CHP | 100pF | 50V |
| C607 | UM417100 | C. EL | 10uF | 50V |
| C608 | UM417100 | C. EL | 10uF | 50V |
| C609 | UM417100 | C. EL | 10uF | 50V |
| C610 | UM417100 | C. EL | 10uF | 50V |
| C611 | UM417100 | C. EL | 10uF | 50V |
| C612 | UM417100 | C. EL | 10uF | 50V |
| C613 | VF637900 | C. EL | 1000uF | 10V |
| C614 | VF637900 | C. EL | 1000uF | 10V |
| C615 | UM417100 | C. EL | 10uF | 50V |
| C616 | VF637900 | C. EL | 1000uF | 10V |
| C617 | UB013330 | C. CE. M. CHP | 3300pF | 50V |
| C618 | VJ837200 | C. EL | 47uF | 16V |
| C619 | VJ837200 | C. EL | 47uF | 16V |
| C620 | UB012820 | C. CE. M. CHP | 820pF | 50V |
| C621 | VF760000 | C. EL | 100uF | 10V |
| C622 | VJ837200 | C. EL | 47uF | 16V |
| C623 | UB052120 | C. CE. M. CHP | 120pF | 50V |
| C624 | UB044100 | C. CE. M. CHP | 0. 01uF | 50V |
| C625 | VJ837200 | C. EL | 47uF | 16V |
| C626 | UM417100 | C. EL | 10uF | 50V |
| C627 | UB013120 | C. CE. M. CHP | 1200pF | 50V |
| C628 | UB012470 | C. CE. M. CHP | 470pF | 50V |
| C629 | VJ839100 | C. EL | 1uF | 50V |
| C630 | VJ839100 | C. EL | 1uF | 50V |
| C631 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C632 | VJ837200 | C. EL | 47uF | 16V |
| C633 | UB245100 | C. CE. M. CHP | 0. 1uF | 25V |
| C634 | VJ837200 | C. EL | 47uF | 16V |
| C635 | VJ899300 | C. CE. M. CHP | 8pF | 50V |
| C636 | VJ899200 | C. CE. M. CHP | 7pF | 50V |
| * C637 | UB051240 | C. CE. M. CHP | 24pF | 50V |
| * C638 | UB051240 | C. CE. M. CHP | 24pF | 50V |
| C639 | UB012220 | C. CE. M. CHP | 220pF | 50V |
| C640 | UM417100 | C. EL | 10uF | 50V |
| C641 | UM416470 | C. EL | 4. 7uF | 50V |

* New Parts

P.C.B. VIDEO

RX-V2092

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|---------------|--------------|-----------|
| C642 | VJ837200 | C. EL | 47uF | 16V |
| C643 | VJ837200 | C. EL | 47uF | 16V |
| C644 | VJ900700 | C. CE. M. CHP | 33pF | 50V |
| C645 | VJ900300 | C. CE. M. CHP | 22pF | 50V |
| C801 | VR324600 | C. MYLAR | 0.01uF | 100V |
| C802 | Ui377470 | C. EL | 47uF | 63V(R) |
| C803 | VF606700 | C. EL | 1000uF | 25V |
| △* C805 | VV975400 | C. CE | 0.01uF | 275V |
| D201 | VG442500 | DIODE. ZENR | MTZJ24B | 24V |
| D202 | VG442500 | DIODE. ZENR | MTZJ24B | 24V |
| D203 | iF004600 | DIODE | 1SS133 | |
| D204 | iF004600 | DIODE | 1SS133 | |
| D205 | iF004600 | DIODE | 1SS133 | |
| D206 | iF004600 | DIODE | 1SS133 | |
| △ D207 | VT359600 | DIODE. BRG | D3SBA20 | 4A 200V |
| △ D208 | VP344100 | DIODE. BRG | D2SBA20 | 1.5A 200V |
| D209 | iF004600 | DIODE | 1SS133 | |
| D210 | VC398400 | DIODE | MA185 | |
| D601 | iF004600 | DIODE | 1SS133 | |
| D602 | iF004600 | DIODE | 1SS133 | |
| D603 | iF004600 | DIODE | 1SS133 | |
| D604 | iF004600 | DIODE | 1SS133 | |
| D605 | iF004600 | DIODE | 1SS133 | |
| D606 | iF004600 | DIODE | 1SS133 | |
| D607 | iF004600 | DIODE | 1SS133 | |
| D608 | iF004600 | DIODE | 1SS133 | |
| D609 | iF004600 | DIODE | 1SS133 | |
| D610 | iF004600 | DIODE | 1SS133 | |
| D611 | iF004600 | DIODE | 1SS133 | |
| D612 | iF004600 | DIODE | 1SS133 | |
| △ D801 | VR253700 | DIODE. BRG | S1NB20 | 1.0A 200V |
| D802 | iF004600 | DIODE | 1SS133 | |
| D803 | VG439900 | DIODE. ZENR | MTZJ11B | 11V(R) |
| △ F201 | KB003240 | FUSE | T5.0A | 250V(RAL) |
| △ F201 | KB003640 | FUSE | T6.0A | 125V(UC) |
| △ F202 | KB003240 | FUSE | T5.0A | 250V(RAL) |
| △ F202 | KB003640 | FUSE | T6.0A | 125V(UC) |
| △ F801 | KB000780 | FUSE | T5.0A | 250V(AL) |
| △ F801 | KB001390 | FUSE | 10A | 250V(UCR) |
| △ F802 | KB000780 | FUSE | T5.0A | 250V(R) |
| △ F802 | KB002980 | FUSE | T2.5A | 250V(L) |
| G201 | VR463400 | TERM. GND | D3.5 | TP00385 |
| IC201 | iG092000 | IC | M5220L | |
| △ IC205 | XJ604A00 | IC | NJM78M05FA | |
| △ IC206 | XJ604A00 | IC | NJM78M05FA | |
| △ IC207 | XJ608A00 | IC | NJM7812FA | |
| △ IC208 | XE436A00 | IC | NJM79M05FA | |
| △ IC209 | XD343A00 | IC | NJM79M12FA | |
| IC501 | XL493A00 | IC | TC74HC4051AP | |
| IC502 | XL493A00 | IC | TC74HC4051AP | |
| IC503 | iG001270 | IC | TC4066BP | |
| IC504 | Xi109D00 | IC | MC14576CP | |
| IC505 | XK313A00 | IC | LC7824 | |

* New Parts

| Schm Ref. | PART NO. | Description | |
|-----------|----------|-------------|-----------------|
| IC601 | XL493A00 | IC | TC74HC4051AP |
| IC602 | XL493A00 | IC | TC74HC4051AP |
| IC603 | XL493A00 | IC | TC74HC4051AP |
| IC604 | XL493A00 | IC | TC74HC4051AP |
| IC605 | iG001270 | IC | TC4066BP |
| IC606 | iG055100 | IC | TC4053BP |
| IC607 | iG142200 | IC | TC74HCU04AP |
| IC608 | Xi109D00 | IC | MC14576CP |
| IC609 | Xi109D00 | IC | MC14576CP |
| IC610 | Xi109D00 | IC | MC14576CP |
| IC611 | XS502A00 | IC | LC74781-9626 |
| JK601 | VU245200 | CN. DIN | 1P |
| JK602 | VP113600 | CN. DIN | 2P |
| JK603 | VP113600 | CN. DIN | 2P |
| JK604 | VT973000 | CN. DIN | 2P |
| L201 | GD900470 | COIL | 1.5uH |
| L202 | GD900470 | COIL | 1.5uH |
| L601 | VG668700 | COIL | 33uH |
| PJ501 | VR110100 | JACK. PIN | 2P |
| PJ502 | VR110100 | JACK. PIN | 2P |
| PJ503 | VR110100 | JACK. PIN | 2P |
| PJ504 | VR110100 | JACK. PIN | 2P |
| △ Q201 | iC1815C0 | TR | 2SC1815 Y |
| △ Q202 | iA101521 | TR | 2SA1015 Y |
| △ Q203 | VP872700 | TR | 2SC4488 S, T |
| △ Q204 | VK174800 | TR | 2SC4512 O, P, Y |
| Q205 | iC224030 | TR | 2SC2240 GR, BL |
| △ Q206 | VP872600 | TR | 2SA1708 S, T |
| Q207 | iC224030 | TR | 2SC2240 GR, BL |
| △ Q208 | VK174800 | TR | 2SC4512 O, P, Y |
| △ Q209 | VP872700 | TR | 2SC4488 S, T |
| △ Q210 | VK174800 | TR | 2SC4512 O, P, Y |
| Q211 | iC224030 | TR | 2SC2240 GR, BL |
| △ Q212 | VP872600 | TR | 2SA1708 S, T |
| Q213 | iC224030 | TR | 2SC2240 GR, BL |
| △ Q214 | VK174800 | TR | 2SC4512 O, P, Y |
| Q501 | iC260320 | TR | 2SC2603 E, F |
| Q502 | iA101521 | TR | 2SA1015 Y |
| Q503 | iC053540 | TR | 2SC535 A, B, C |
| Q601 | iC260320 | TR | 2SC2603 E, F |
| Q602 | VH964100 | TR. DGT | DTA143ES |
| Q603 | iC287820 | TR | 2SC2878 A, B |
| Q604 | VG721700 | TR. DGT | DTA144ES |
| Q605 | VG721700 | TR. DGT | DTA144ES |
| Q606 | VD678700 | TR. DGT | DTC114ES |
| Q607 | iC260320 | TR | 2SC2603 E, F |
| Q608 | iC260320 | TR | 2SC2603 E, F |
| Q609 | iA101521 | TR | 2SA1015 Y |
| Q610 | iC053540 | TR | 2SC535 A, B, C |
| Q611 | iC224030 | TR | 2SC2240 GR, BL |
| △ Q801 | VR510800 | TR | 2SD2396 J, K(R) |
| Q802 | VD488500 | TR. DGT | DTC143XS |
| Q803 | iE102620 | FET | 2SK246 Y(R) |

* New Parts

P.C.B. VIDEO & MAIN

RX-V2092

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|-------------|-------------|-------------------|
| △ | R210 | VE869300 | R. MTL. OXD | 0.1Ω 2W |
| △ | R226 | VE869300 | R. MTL. OXD | 0.1Ω 2W |
| △ | R242 | HL324120 | R. MTL. OXD | 12Ω 2W |
| △ | R244 | VP939900 | R. MTL. OXD | 15Ω 1W |
| △ | R248 | VP939500 | R. MTL. FLM | 1Ω 1W |
| △ | R249 | VP939500 | R. MTL. FLM | 1Ω 1W |
| △ | R250 | HL324120 | R. MTL. OXD | 12Ω 2W |
| △ | R251 | VP939900 | R. MTL. OXD | 15Ω 1W |
| △ | R262 | HL324120 | R. MTL. OXD | 12Ω 2W |
| △ | R263 | VP939900 | R. MTL. OXD | 15Ω 1W |
| △ | RY801 | VK539200 | RELAY | DC DH12D1-0/M(R) |
| △* | RY801 | VV950000 | RELAY | VS-12MB-NR (UCAL) |
| △ | T801 | XC082A00 | TRANS. PWR | (R) |
| △ | T801 | XQ485A00 | TRANS. PWR | (UC) |
| △ | T801 | XQ486A00 | TRANS. PWR | (AL) |
| △ | TE801 | VI915000 | OUTLET. AC | 2P(A) |
| △ | TE801 | VV118800 | OUTLET. AC | 3P(UCL) |
| △ | TE801 | VV119000 | OUTLET. AC | 3P(L) |
| * | TH201 | VM842300 | POSITOR | PIH9M04 BF :80°C |
| | XL601 | VV949800 | RSNR. CRYST | 14.31818MHz(UCR) |
| | XL601 | VV949900 | RSNR. CRYST | 17.734475MHz(AL) |
| | | VJ828000 | PIN | IMSA-6024-03E |
| | | BB071360 | SCR. TERM | 8.3x13 |
| * | | VY770700 | P. C. B. | MAIN(UCA) |
| * | | VY770800 | P. C. B. | MAIN(R) |
| * | | VY809000 | P. C. B. | MAIN(L) |
| | CB102 | VQ047400 | CN. BS. PIN | 19P |
| | CB103 | VD004500 | CN. BS. PIN | 2P |
| | CB105 | VD005100 | CN. BS. PIN | 8P |
| | CB106 | LA002110 | TERM. WRAP | 2P |
| | CB601 | VL844800 | CN. BS. PIN | 4P |
| | CB602 | VL845200 | CN. BS. PIN | 8P |
| | CB603 | VD004600 | CN. BS. PIN | 3P |
| | CB604 | LB918020 | CN. BS. PIN | 2P |
| * | CB702 | LA002330 | TERM. WRAP | 4P |
| | C101 | UA652470 | C. MYLAR | 470pF 50V |
| | C102 | UA652470 | C. MYLAR | 470pF 50V |
| | C103 | UA652470 | C. MYLAR | 470pF 50V |
| | C104 | UA652470 | C. MYLAR | 470pF 50V |
| | C105 | UA654100 | C. MYLAR | 0.01uF 50V |
| | C106 | UA652470 | C. MYLAR | 470pF 50V |
| | C107 | UA652470 | C. MYLAR | 470pF 50V |
| | C108 | UA652470 | C. MYLAR | 470pF 50V |
| | C109 | UA652470 | C. MYLAR | 470pF 50V |
| | C110 | UA652470 | C. MYLAR | 470pF 50V |
| | C111 | UM417100 | C. EL | 10uF 50V |
| | C112 | UJ668100 | C. EL | 100uF 50V |
| | C113 | VJ836900 | C. EL | 10uF 16V |
| | C114 | VF760000 | C. EL | 100uF 10V |
| | C115 | VF760000 | C. EL | 100uF 10V |

* New Parts

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|-------------|----------|-------------|
| | C116 | VH520500 | C. EL | 1000uF 35V |
| | C119 | VJ836900 | C. EL | 10uF 16V |
| | C121 | VH574800 | C. EL | 47uF 100V |
| | C122 | UT452100 | C. PP | 100pF 100V |
| | C123 | UM417100 | C. EL | 10uF 50V |
| | C124 | UA652100 | C. MYLAR | 100pF 50V |
| | C125 | UT452100 | C. PP | 100pF 100V |
| | C126 | UM417100 | C. EL | 10uF 50V |
| | C127 | VH574800 | C. EL | 47uF 100V |
| | C128 | UT452100 | C. PP | 100pF 100V |
| | C129 | UM417100 | C. EL | 10uF 50V |
| | C130 | UA652100 | C. MYLAR | 100pF 50V |
| | C131 | UT452100 | C. PP | 100pF 100V |
| | C132 | UM417100 | C. EL | 10uF 50V |
| | C133 | VH574800 | C. EL | 47uF 100V |
| | C134 | UT452100 | C. PP | 100pF 100V |
| | C135 | UM417100 | C. EL | 10uF 50V |
| | C136 | UA652100 | C. MYLAR | 100pF 50V |
| | C137 | UT452100 | C. PP | 100pF 100V |
| | C138 | UM417100 | C. EL | 10uF 50V |
| | C139 | VH574800 | C. EL | 47uF 100V |
| | C140 | UT452100 | C. PP | 100pF 100V |
| | C141 | UM417100 | C. EL | 10uF 50V |
| | C142 | UA652100 | C. MYLAR | 100pF 50V |
| | C143 | UT452100 | C. PP | 100pF 100V |
| | C144 | UM417100 | C. EL | 10uF 50V |
| | C145 | VH574800 | C. EL | 47uF 100V |
| | C146 | UT452100 | C. PP | 100pF 100V |
| | C147 | UM417100 | C. EL | 10uF 50V |
| | C148 | UT452100 | C. PP | 100pF 100V |
| | C149 | UM417100 | C. EL | 10uF 50V |
| | C150 | VK533900 | C. PP | 100pF 200V |
| | C151 | UT453120 | C. PP | 1200pF 100V |
| | C152 | UA653330 | C. MYLAR | 3300pF 50V |
| | C153 | FU451150 | C. MICA | 15pF 500V |
| | C154 | UM416470 | C. EL | 4.7uF 50V |
| | C155 | UA654100 | C. MYLAR | 0.01uF 50V |
| | C156 | VF964800 | C. EL | 100uF 16V |
| | C157 | UJ167330 | C. EL | 33uF 50V |
| | C159 | VK533900 | C. PP | 100pF 200V |
| | C160 | VK533900 | C. PP | 100pF 200V |
| | C161 | UT453120 | C. PP | 1200pF 100V |
| | C162 | UA653330 | C. MYLAR | 3300pF 50V |
| | C163 | FU451150 | C. MICA | 15pF 500V |
| | C164 | UM416470 | C. EL | 4.7uF 50V |
| | C165 | UA654100 | C. MYLAR | 0.01uF 50V |
| | C166 | VF964800 | C. EL | 100uF 16V |
| | C167 | UJ167330 | C. EL | 33uF 50V |
| | C169 | VK533900 | C. PP | 100pF 200V |
| | C170 | VK533900 | C. PP | 100pF 200V |
| | C171 | UT453120 | C. PP | 1200pF 100V |
| | C172 | UA653330 | C. MYLAR | 3300pF 50V |
| | C173 | FU451150 | C. MICA | 15pF 500V |

* New Parts

P.C.B. MAIN

RX-V2092

| Schm Ref. | PART NO. | Description | | | |
|-----------|----------|-------------|---------|------|--|
| C174 | UM416470 | C. EL | 4.7uF | 50V | |
| C175 | UA654100 | C. MYLAR | 0.01uF | 50V | |
| C176 | VF964800 | C. EL | 100uF | 16V | |
| C177 | UJ167330 | C. EL | 33uF | 50V | |
| C179 | VK533900 | C. PP | 100pF | 200V | |
| C180 | VK533900 | C. PP | 100pF | 200V | |
| C181 | UT453120 | C. PP | 1200pF | 100V | |
| C182 | UA653330 | C. MYLAR | 3300pF | 50V | |
| C183 | FU451150 | C. MICA | 15pF | 500V | |
| C184 | UM416470 | C. EL | 4.7uF | 50V | |
| C185 | UA654100 | C. MYLAR | 0.01uF | 50V | |
| C186 | VF964800 | C. EL | 100uF | 16V | |
| C187 | UJ167330 | C. EL | 33uF | 50V | |
| C189 | VK533900 | C. PP | 100pF | 200V | |
| C190 | VK533900 | C. PP | 100pF | 200V | |
| C191 | UT453120 | C. PP | 1200pF | 100V | |
| C192 | UA653330 | C. MYLAR | 3300pF | 50V | |
| C193 | FU451150 | C. MICA | 15pF | 500V | |
| C194 | UM416470 | C. EL | 4.7uF | 50V | |
| C195 | UA654100 | C. MYLAR | 0.01uF | 50V | |
| C196 | VF964800 | C. EL | 100uF | 16V | |
| C197 | UJ167330 | C. EL | 33uF | 50V | |
| C199 | VK533900 | C. PP | 100pF | 200V | |
| C200 | UM216330 | C. EL | 3.3uF | 50V | |
| C201 | UJ897100 | C. EL | 10uF | 100V | |
| C202 | UA655330 | C. MYLAR | 0.33uF | 50V | |
| C203 | UJ638330 | C. EL | 330uF | 16V | |
| C204 | UJ897100 | C. EL | 10uF | 100V | |
| C205 | UA654470 | C. MYLAR | 0.047uF | 50V | |
| C206 | UJ897100 | C. EL | 10uF | 100V | |
| C207 | UA655330 | C. MYLAR | 0.33uF | 50V | |
| C208 | UJ638330 | C. EL | 330uF | 16V | |
| C209 | UA654470 | C. MYLAR | 0.047uF | 50V | |
| C210 | UJ897100 | C. EL | 10uF | 100V | |
| C211 | UJ897100 | C. EL | 10uF | 100V | |
| C212 | UJ897100 | C. EL | 10uF | 100V | |
| C213 | UJ638330 | C. EL | 330uF | 16V | |
| C214 | UA654470 | C. MYLAR | 0.047uF | 50V | |
| C215 | UJ897100 | C. EL | 10uF | 100V | |
| C216 | UJ897100 | C. EL | 10uF | 100V | |
| C217 | UJ638330 | C. EL | 330uF | 16V | |
| C218 | UA654470 | C. MYLAR | 0.047uF | 50V | |
| C219 | UJ897100 | C. EL | 10uF | 100V | |
| C220 | UJ897100 | C. EL | 10uF | 100V | |
| C221 | UJ638330 | C. EL | 330uF | 16V | |
| C222 | UA654470 | C. MYLAR | 0.047uF | 50V | |
| C230 | UA652100 | C. MYLAR | 100pF | 50V | |
| C231 | UJ648100 | C. EL | 100uF | 25V | |
| C232 | UJ648100 | C. EL | 100uF | 25V | |
| C233 | UJ648100 | C. EL | 100uF | 25V | |
| C234 | UJ648100 | C. EL | 100uF | 25V | |
| C235 | UJ648100 | C. EL | 100uF | 25V | |
| C236 | UM215100 | C. EL | 0.1uF | 50V | |

* New Parts

| Schm Ref. | PART NO. | Description | | | |
|-----------|----------|--------------|------------|----------|--|
| C237 | UM215100 | C. EL | 0.1uF | 50V | |
| C238 | UM215100 | C. EL | 0.1uF | 50V | |
| C239 | UM215100 | C. EL | 0.1uF | 50V | |
| C240 | UM215100 | C. EL | 0.1uF | 50V | |
| C241 | UA654100 | C. MYLAR | 0.01uF | 50V | |
| C242 | VJ839100 | C. EL | 1uF | 50V | |
| C243 | VF467300 | C. CE. TUBLR | 0.01uF | 16V(UCA) | |
| C701 | VR325400 | C. MYLAR | 0.1uF | 100V | |
| * C702 | VY818300 | C. EL | 22000uF | 71V | |
| C703 | VR325400 | C. MYLAR | 0.1uF | 100V | |
| * C704 | VY818300 | C. EL | 22000uF | 71V | |
| C705 | UA655100 | C. MYLAR | 0.1uF | 50V | |
| D101 | iF004600 | DIODE | 1SS133 | | |
| D102 | iF004600 | DIODE | 1SS133 | | |
| D103 | iF004600 | DIODE | 1SS133 | | |
| D104 | VQ250500 | PHOT. CPL | TLP621 | | |
| D105 | iF004600 | DIODE | 1SS133 | | |
| D106 | iF004600 | DIODE | 1SS133 | | |
| D107 | iF004600 | DIODE | 1SS133 | | |
| D108 | iF004600 | DIODE | 1SS133 | | |
| D109 | VG442600 | DIODE. ZENR | MTZJ24C | 24V | |
| D113 | iF004600 | DIODE | 1SS133 | | |
| D114 | iF004600 | DIODE | 1SS133 | | |
| D115 | iF004600 | DIODE | 1SS133 | | |
| D116 | iF004600 | DIODE | 1SS133 | | |
| D117 | iF004600 | DIODE | 1SS133 | | |
| D118 | iF004600 | DIODE | 1SS133 | | |
| D119 | iF004600 | DIODE | 1SS133 | | |
| D120 | iF004600 | DIODE | 1SS133 | | |
| D122 | VC398400 | DIODE | MA185 | | |
| D124 | VC398400 | DIODE | MA185 | | |
| D126 | VC398400 | DIODE | MA185 | | |
| D128 | VC398400 | DIODE | MA185 | | |
| D130 | VC398400 | DIODE | MA185 | | |
| D132 | VC398400 | DIODE | MA185 | | |
| D134 | VC398400 | DIODE | MA185 | | |
| D136 | VC398400 | DIODE | MA185 | | |
| D138 | VC398400 | DIODE | MA185 | | |
| D140 | VC398400 | DIODE | MA185 | | |
| D141 | VU264100 | DIODE | 1SR139-400 | | |
| △ D142 | VC398400 | DIODE | MA185 | | |
| D143 | VU264100 | DIODE | 1SR139-400 | | |
| △ D144 | VC398400 | DIODE | MA185 | | |
| D145 | VU264100 | DIODE | 1SR139-400 | | |
| △ D146 | VC398400 | DIODE | MA185 | | |
| D147 | VU264100 | DIODE | 1SR139-400 | | |
| △ D148 | VC398400 | DIODE | MA185 | | |
| D149 | VU264100 | DIODE | 1SR139-400 | | |
| △ D150 | VC398400 | DIODE | MA185 | | |
| D151 | VG440100 | DIODE. ZENR | MTZJ12A | 12V | |
| D152 | VG440100 | DIODE. ZENR | MTZJ12A | 12V | |
| D153 | VG440100 | DIODE. ZENR | MTZJ12A | 12V | |
| D154 | VG440100 | DIODE. ZENR | MTZJ12A | 12V | |

* New Parts

P.C.B. MAIN

RX-V2092

| Schm Ref. | PART NO. | Description |
|-----------|----------|-------------------------|
| D155 | VG440100 | DIODE. ZENR MTZJ12A 12V |
| D601 | iF004600 | DIODE 1SS133 |
| D701 | Vi711600 | DIODE. BRG RBV-602 LF-A |
| G101 | VR463400 | TERM. GND D3.5 TP00385 |
| G701 | VR463400 | TERM. GND D3.5 TP00385 |
| JK101 | VJ726800 | JACK. MNI |
| JK102 | VJ726800 | JACK. MNI |
| L101 | VC664100 | COIL 0.95uH |
| L102 | VC664100 | COIL 0.95uH |
| L103 | GD900470 | COIL 1.5uH |
| L104 | GD900470 | COIL 1.5uH |
| L105 | GD900470 | COIL 1.5uH |
| PJ101 | VJ696300 | JACK. PIN 4P |
| PJ102 | VJ696300 | JACK. PIN 4P |
| PJ103 | VP768000 | JACK. PIN 2P |
| PJ601 | VP768000 | JACK. PIN 2P |
| Q101 | iC260320 | TR 2SC2603 E, F |
| Q102 | VK165500 | TR. DGT DTC123JS TP |
| Q103 | iC260320 | TR 2SC2603 E, F |
| Q104 | VC141900 | TR 2SB941 P, Q |
| Q105 | iC1815C0 | TR 2SC1815 Y |
| Q107 | VT254500 | TR. DGT DTC143ZS |
| Q108 | VT254500 | TR. DGT DTC143ZS |
| Q109 | VT254500 | TR. DGT DTC143ZS |
| Q110 | iA101521 | TR 2SA1015 Y |
| Q111 | iC224030 | TR 2SC2240 GR, BL |
| Q112 | iA101521 | TR 2SA1015 Y |
| Q113 | iC224030 | TR 2SC2240 GR, BL |
| Q114 | iA101521 | TR 2SA1015 Y |
| Q115 | iC224030 | TR 2SC2240 GR, BL |
| Q116 | iA101521 | TR 2SA1015 Y |
| Q117 | iC224030 | TR 2SC2240 GR, BL |
| Q118 | iA101521 | TR 2SA1015 Y |
| Q119 | iC224030 | TR 2SC2240 GR, BL |
| Q120 | VE198800 | TR 2SC2705 O, Y |
| Q121 | iA101521 | TR 2SA1015 Y |
| Q122 | VE198700 | TR 2SA1145 O, Y |
| Q123A | iX632610 | TR 2SA1837 O, Y |
| Q123C | iX632620 | TR 2SC4793 O, Y |
| Q124 | iC224030 | TR 2SC2240 GR, BL |
| Q125 | iC224030 | TR 2SC2240 GR, BL |
| Q127 | VE198700 | TR 2SA1145 O, Y |
| Q128 | iC224030 | TR 2SC2240 GR, BL |
| Q129 | VE198800 | TR 2SC2705 O, Y |
| Q130 | iA101521 | TR 2SA1015 Y |
| Q131 | VE198700 | TR 2SA1145 O, Y |
| Q132A | iX632610 | TR 2SA1837 O, Y |
| Q132C | iX632620 | TR 2SC4793 O, Y |
| Q133 | iC224030 | TR 2SC2240 GR, BL |
| Q134 | iC224030 | TR 2SC2240 GR, BL |
| Q136 | VE198700 | TR 2SA1145 O, Y |
| Q137 | iC224030 | TR 2SC2240 GR, BL |
| Q138 | VE198800 | TR 2SC2705 O, Y |

* New Parts

| Schm Ref. | PART NO. | Description |
|-----------|----------|----------------------|
| Q139 | iA101521 | TR 2SA1015 Y |
| Q140 | VE198700 | TR 2SA1145 O, Y |
| Q141A | iX632610 | TR 2SA1837 O, Y |
| Q141C | iX632620 | TR 2SC4793 O, Y |
| Q142 | iC224030 | TR 2SC2240 GR, BL |
| Q143 | iC224030 | TR 2SC2240 GR, BL |
| Q145 | VE198700 | TR 2SA1145 O, Y |
| Q146 | iC224030 | TR 2SC2240 GR, BL |
| Q147 | VE198800 | TR 2SC2705 O, Y |
| Q148 | iA101521 | TR 2SA1015 Y |
| Q149 | VE198700 | TR 2SA1145 O, Y |
| Q150A | iX632610 | TR 2SA1837 O, Y |
| Q150C | iX632620 | TR 2SC4793 O, Y |
| Q151 | iC224030 | TR 2SC2240 GR, BL |
| Q152 | iC224030 | TR 2SC2240 GR, BL |
| Q154 | VE198700 | TR 2SA1145 O, Y |
| Q155 | iC224030 | TR 2SC2240 GR, BL |
| Q156 | VE198800 | TR 2SC2705 O, Y |
| Q157 | iA101521 | TR 2SA1015 Y |
| Q158 | VE198700 | TR 2SA1145 O, Y |
| Q159A | iX632610 | TR 2SA1837 O, Y |
| Q159C | iX632620 | TR 2SC4793 O, Y |
| Q160 | iC224030 | TR 2SC2240 GR, BL |
| Q161 | iC224030 | TR 2SC2240 GR, BL |
| Q163 | VE198700 | TR 2SA1145 O, Y |
| Q164 | iC224030 | TR 2SC2240 GR, BL |
| Q165 | iA097000 | TR 2SA970 GR, BL |
| Q166 | VY705000 | TR 2SC5200 R, O |
| Q167 | iC224030 | TR 2SC2240 GR, BL |
| Q168 | VY705000 | TR 2SC5200 R, O |
| Q169 | VY705000 | TR 2SC5200 R, O |
| Q170 | iC224030 | TR 2SC2240 GR, BL |
| Q171 | VY705000 | TR 2SC5200 R, O |
| Q172 | VY705000 | TR 2SC5200 R, O |
| Q173 | iC224030 | TR 2SC2240 GR, BL |
| Q174 | VY705000 | TR 2SC5200 R, O |
| Q175 | VY705000 | TR 2SC5200 R, O |
| Q176 | iC224030 | TR 2SC2240 GR, BL |
| Q177 | VY705000 | TR 2SC5200 R, O |
| Q178 | VY705000 | TR 2SC5200 R, O |
| Q179 | iC224030 | TR 2SC2240 GR, BL |
| Q180 | VY705000 | TR 2SC5200 R, O |
| Q181 | VC502100 | TR 2SD1915 S, T |
| Q182 | VC502100 | TR 2SD1915 S, T |
| R123 | VP944500 | R. MTL. OXD 390Ω 1W |
| R124 | VP944500 | R. MTL. OXD 390Ω 1W |
| R146 | HL314100 | R. MTL. OXD 10Ω 1W |
| R149 | HL416220 | R. MTL. OXD 2.2KΩ 1W |
| R150 | HL315560 | R. MTL. OXD 560Ω 1W |
| R151 | HL315560 | R. MTL. OXD 560Ω 1W |
| R193 | VK189100 | R. FUS 1.2KΩ 1/4W |
| R194 | VK188000 | R. FUS 150Ω 1/4W |
| R214 | VK189100 | R. FUS 1.2KΩ 1/4W |

* New Parts

P.C.B. MAIN & OPERATION

RX-V2092

| Schm Ref. | PART NO. | Description | | |
|------------|----------|--------------|---------------------|------|
| R215 | VK188000 | R. FUS | 150 Ω | 1/4W |
| R235 | VK189100 | R. FUS | 1.2K Ω | 1/4W |
| R236 | VK188000 | R. FUS | 150 Ω | 1/4W |
| R256 | VK189100 | R. FUS | 1.2K Ω | 1/4W |
| R257 | VK188000 | R. FUS | 150 Ω | 1/4W |
| R277 | VK189100 | R. FUS | 1.2K Ω | 1/4W |
| R278 | VK188000 | R. FUS | 150 Ω | 1/4W |
| R300 | VR412900 | R. MTL. OXD | 0.1 Ω | 3W |
| R310 | VR412900 | R. MTL. OXD | 0.1 Ω | 3W |
| R318 | VR412900 | R. MTL. OXD | 0.1 Ω | 3W |
| R326 | VR412900 | R. MTL. OXD | 0.1 Ω | 3W |
| R334 | VR412900 | R. MTL. OXD | 0.1 Ω | 3W |
| △ R339 | HL315220 | R. MTL. OXD | 220 Ω | 1W |
| △ R340 | HL315220 | R. MTL. OXD | 220 Ω | 1W |
| R358 | HL314330 | R. MTL. OXD | 33 Ω | 1W |
| △ R359 | HL315220 | R. MTL. OXD | 220 Ω | 1W |
| △ R360 | HL315220 | R. MTL. OXD | 220 Ω | 1W |
| R373 | HL315470 | R. MTL. OXD | 470 Ω | 1W |
| RY101 | KC002020 | RELAY | DH24D2-OT/M | |
| RY102 | KC002020 | RELAY | DH24D2-OT/M | |
| RY104 | VK438300 | RELAY | DH24D2-OT/M2 | |
| RY105 | VK438300 | RELAY | DH24D2-OT/M2 | |
| RY601 | VK438300 | RELAY | DH24D2-OT/M2 | |
| SW101 | VI903900 | SW. SLIDE | SSAA22 | |
| SW102 | VI903900 | SW. SLIDE | SSAA22(R) | |
| SW103 | VI903900 | SW. SLIDE | SSAA22 | |
| * SW603 | VV489000 | SW. PUSH | PBS-22H01L-F14 | |
| △ SW801 | VV523800 | SW. SLIDE | SL13B-022-BMC1 | |
| TE101 | VC313700 | TERM. SP | 8P (UCAR) | |
| TE101 | VK506200 | TERM. SP | 8P (L) | |
| TE601 | VC313700 | TERM. SP | 8P (UCAR) | |
| TE601 | VK506200 | TERM. SP | 8P (L) | |
| TE603 | VC313800 | TERM. SP | LTS0410-2002 (UCAR) | |
| * TE603 | VZ234500 | TERM. SP | LTS0420-3003 (L) | |
| | VJ828000 | PIN | IMSA-6024-03E | |
| | BB070700 | GND. MTL | | |
| * VY843300 | | HEAT. SINK | | |
| | VK697600 | SCR. BND. HD | 3x10 SP ZMC2-Y | |
| | VY769700 | P. C. B. | OPERATION(UC) | |
| | VY769800 | P. C. B. | OPERATION(RAL) | |
| CB351 | VM688900 | CN. BS. PIN | 10P | |
| CB352 | VM859700 | CN. BS. PIN | 16P | |
| CB353 | LB918020 | CN. BS. PIN | 2P | |
| CB501 | VM688900 | CN. BS. PIN | 10P | |
| CB502 | VK216500 | CN | 10P | |
| CB504 | VB858400 | CN. BS. PIN | 5P | |
| CB505 | VK217300 | CN | 10P | |
| CB901 | VM929900 | CN. BS. PIN | 15P | |
| C351 | VJ839200 | C. EL | 2.2uF | 50V |
| C352 | UA652100 | C. MYLAR | 100pF | 50V |

* New Parts

| Schm Ref. | PART NO. | Description | | |
|-----------|----------|--------------|---------|-----|
| C353 | UA652100 | C. MYLAR | 100pF | 50V |
| C354 | VJ839200 | C. EL | 2.2uF | 50V |
| C355 | VJ839200 | C. EL | 2.2uF | 50V |
| C356 | VF760000 | C. EL | 100uF | 10V |
| C357 | VF760000 | C. EL | 100uF | 10V |
| C358 | VJ839200 | C. EL | 2.2uF | 50V |
| C359 | VJ839200 | C. EL | 2.2uF | 50V |
| C360 | VF760000 | C. EL | 100uF | 10V |
| C361 | VF760000 | C. EL | 100uF | 10V |
| C362 | VJ839200 | C. EL | 2.2uF | 50V |
| C363 | VJ839200 | C. EL | 2.2uF | 50V |
| C364 | VJ837200 | C. EL | 47uF | 16V |
| C367 | VF760000 | C. EL | 100uF | 10V |
| C368 | VF760000 | C. EL | 100uF | 10V |
| C369 | VJ837200 | C. EL | 47uF | 16V |
| C372 | VJ839200 | C. EL | 2.2uF | 50V |
| C373 | UM417100 | C. EL | 10uF | 50V |
| C374 | UA652100 | C. MYLAR | 100pF | 50V |
| C375 | UA652100 | C. MYLAR | 100pF | 50V |
| C376 | UM417100 | C. EL | 10uF | 50V |
| C377 | UM417100 | C. EL | 10uF | 50V |
| C378 | UA652100 | C. MYLAR | 100pF | 50V |
| C379 | UA652100 | C. MYLAR | 100pF | 50V |
| C380 | UM417100 | C. EL | 10uF | 50V |
| C381 | UM417100 | C. EL | 10uF | 50V |
| C382 | UA652100 | C. MYLAR | 100pF | 50V |
| C383 | UA652100 | C. MYLAR | 100pF | 50V |
| C384 | UM417100 | C. EL | 10uF | 50V |
| C385 | VH053100 | C. CE. TUBLR | 0.1uF | 50V |
| C386 | UM416470 | C. EL | 4.7uF | 50V |
| C387 | UM416470 | C. EL | 4.7uF | 50V |
| C388 | UM417100 | C. EL | 10uF | 50V |
| C389 | UM417100 | C. EL | 10uF | 50V |
| C501 | UM407220 | C. EL | 22uF | 16V |
| C502 | UM407220 | C. EL | 22uF | 16V |
| C503 | UA652100 | C. MYLAR | 100pF | 50V |
| C504 | UA652100 | C. MYLAR | 100pF | 50V |
| C505 | VJ839100 | C. EL | 1uF | 50V |
| C506 | VJ837200 | C. EL | 47uF | 16V |
| C507 | UM215100 | C. EL | 0.1uF | 50V |
| C508 | UM215100 | C. EL | 0.1uF | 50V |
| C509 | UA655120 | C. MYLAR | 0.12uF | 50V |
| C510 | UA652100 | C. MYLAR | 100pF | 50V |
| C511 | VJ839200 | C. EL | 2.2uF | 50V |
| C512 | UA654330 | C. MYLAR | 0.033uF | 50V |
| C513 | VJ839200 | C. EL | 2.2uF | 50V |
| C514 | UA652100 | C. MYLAR | 100pF | 50V |
| C515 | UA654330 | C. MYLAR | 0.033uF | 50V |
| C516 | UA655120 | C. MYLAR | 0.12uF | 50V |
| C517 | UM215100 | C. EL | 0.1uF | 50V |
| C518 | UM215100 | C. EL | 0.1uF | 50V |
| C519 | VJ837200 | C. EL | 47uF | 16V |
| C520 | VJ839100 | C. EL | 1uF | 50V |

* New Parts

P.C.B. OPERATION

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| Schm Ref. | PART NO. | Description |
|-----------|----------|-----------------------------|
| C521 | UM417100 | C. EL 10uF 50V |
| C522 | UM417100 | C. EL 10uF 50V |
| C523 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C524 | VF466800 | C. CE. TUBLR 100pF 50V |
| C525 | VF466800 | C. CE. TUBLR 100pF 50V |
| C526 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C527 | UM417100 | C. EL 10uF 50V |
| C528 | UM417100 | C. EL 10uF 50V |
| C529 | VF467000 | C. CE. TUBLR 1000pF 50V |
| C530 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C531 | VF467000 | C. CE. TUBLR 1000pF 50V |
| C532 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C901 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C902 | VG277000 | C. CE. TUBLR 33pF 50V |
| C906 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C907 | VJ837200 | C. EL 47uF 16V |
| C908 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C909 | UJ667470 | C. EL 47uF 50V |
| C910 | UM417100 | C. EL 10uF 50V |
| C911 | UM417100 | C. EL 10uF 50V |
| C912 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C913 | VF467000 | C. CE. TUBLR 1000pF 50V |
| C914 | VH053100 | C. CE. TUBLR 0.1uF 50V |
| C915 | FZ005880 | C. CE. ML 0.1uF 25V |
| C916 | UM417100 | C. EL 10uF 50V |
| D501 | iF004600 | DIODE 1SS133 |
| D901 | VG438300 | DIODE. ZENR MTZJ6.8B 6.8V |
| D902 | VS132300 | LED (re) SLR-325VCT31 (RAL) |
| D903 | VG443500 | DIODE. ZENR MTZJ30D 30V |
| G901 | VR463400 | TERM. GND D3.5 TP00385 |
| IC351 | XB247301 | IC uPC4570HA |
| IC352 | XB247301 | IC uPC4570HA |
| IC353 | XB247301 | IC uPC4570HA |
| IC501 | XM356A00 | IC NJM2068LD |
| IC502 | XB247301 | IC uPC4570HA |
| IC901 | XR188A00 | IC LC75710NE FLD |
| JK501 | VT034300 | JACK 1P |
| JK502 | VT749200 | JACK. PHONE HLJ5307 |
| PJ501 | VS868400 | JACK. PIN 3P |
| Q901 | VP602400 | TR 2SC4038 Q, R, S, E |
| Q902 | VP602400 | TR 2SC4038 Q, R, S, E |
| Q903 | VD678700 | TR. DGT DTC114ES (RAL) |
| Q904 | VP872600 | TR 2SA1708 S, T |
| RY501 | VM640200 | RELAY RY12W-OH-K-DC12V |
| * SW501 | VY667600 | SW. PUSH SPUN22 2 |
| * SW503 | VV425400 | SW. RT SRRM1A |
| SW901 | VG392900 | SW. TACT SKHVAA |
| SW902 | VG392900 | SW. TACT SKHVAA |
| SW903 | VG392900 | SW. TACT SKHVAA |
| SW904 | VG392900 | SW. TACT SKHVAA |
| SW905 | VG392900 | SW. TACT SKHVAA |
| SW906 | VG392900 | SW. TACT SKHVAA |
| SW907 | VG392900 | SW. TACT SKHVAA |

* New Parts

| Schm Ref. | PART NO. | Description |
|------------|----------|----------------------|
| SW908 | VG392900 | SW. TACT SKHVAA |
| SW909 | VG392900 | SW. TACT SKHVAA |
| SW910 | VG392900 | SW. TACT SKHVAA |
| SW911 | VG392900 | SW. TACT SKHVAA |
| SW912 | VG392900 | SW. TACT SKHVAA |
| SW913 | VG392900 | SW. TACT SKHVAA |
| SW914 | VG392900 | SW. TACT SKHVAA |
| SW915 | VG392900 | SW. TACT SKHVAA |
| SW916 | VG392900 | SW. TACT SKHVAA |
| SW917 | VG392900 | SW. TACT SKHVAA |
| SW918 | VG392900 | SW. TACT SKHVAA |
| SW919 | VG392900 | SW. TACT SKHVAA |
| SW920 | VG392900 | SW. TACT SKHVAA |
| SW921 | VG392900 | SW. TACT SKHVAA |
| SW922 | VG392900 | SW. TACT SKHVAA |
| SW923 | VG392900 | SW. TACT SKHVAA |
| SW924 | VG392900 | SW. TACT SKHVAA |
| SW925 | VG392900 | SW. TACT SKHVAA |
| SW926 | VG392900 | SW. TACT SKHVAA |
| SW927 | VG392900 | SW. TACT SKHVAA |
| SW928 | VG392900 | SW. TACT SKHVAA |
| SW929 | VG392900 | SW. TACT SKHVAA |
| SW930 | VG392900 | SW. TACT SKHVAA |
| SW931 | VG392900 | SW. TACT SKHVAA |
| SW932 | VG392900 | SW. TACT SKHVAA |
| SW933 | VG392900 | SW. TACT SKHVAA |
| SW934 | VG392900 | SW. TACT SKHVAA |
| SW935 | VG392900 | SW. TACT SKHVAA |
| SW936 | VG392900 | SW. TACT SKHVAA |
| SW937 | VG392900 | SW. TACT SKHVAA |
| SW938 | VG392900 | SW. TACT SKHVAA |
| SW939 | VG392900 | SW. TACT SKHVAA |
| SW940 | VG392900 | SW. TACT SKHVAA |
| SW941 | VG392900 | SW. TACT SKHVAA |
| SW942 | VG392900 | SW. TACT SKHVAA |
| U901 | VU591000 | L. DTCT GPIU271X |
| * V901 | VV261900 | FL. DSPLY 15-BT-28GK |
| * VR351 | VY689400 | VR. MIR Y100K Ω |
| VR501 | VP741800 | VR B20K Ω |
| VR502 | VP741900 | VR G25K Ω |
| VR503 | VP742000 | VR MN100K Ω |
| | VJ828000 | PIN IMSA-6024-03E |
| | VS588900 | SHEET |
| * VY830700 | BB071360 | SPACER FL-T7.5 |
| | | SCR. TERM 8.3x13 |

* New Parts

■ CHIP RESISTORS & FLAME PROOF CARBON RESISTOR

| Schm Ref. | PART NO. | Description |
|-----------|----------|-------------------------|
| | RD250000 | R. CAR. CHP 0Ω 1/10W |
| | RD254220 | R. CAR. CHP 22Ω 1/10W |
| | RD254750 | R. CAR. CHP 75Ω 1/10W |
| | RD254820 | R. CAR. CHP 82Ω 1/10W |
| | RD255100 | R. CAR. CHP 100Ω 1/10W |
| | RD255150 | R. CAR. CHP 150Ω 1/10W |
| | RD255200 | R. CAR. CHP 200Ω 1/10W |
| | RD255220 | R. CAR. CHP 220Ω 1/10W |
| | RD255330 | R. CAR. CHP 330Ω 1/10W |
| | RD255430 | R. CAR. CHP 430Ω 1/10W |
| | RD255470 | R. CAR. CHP 470Ω 1/10W |
| | RD255620 | R. CAR. CHP 620Ω 1/10W |
| | RD255680 | R. CAR. CHP 680Ω 1/10W |
| | RD255820 | R. CAR. CHP 820Ω 1/10W |
| | RD256100 | R. CAR. CHP 1KΩ 1/10W |
| | RD256120 | R. CAR. CHP 1.2KΩ 1/10W |
| | RD256130 | R. CAR. CHP 1.3KΩ 1/10W |
| | RD256150 | R. CAR. CHP 1.5KΩ 1/10W |
| | RD256220 | R. CAR. CHP 2.2KΩ 1/10W |
| | RD256240 | R. CAR. CHP 2.4KΩ 1/10W |
| | RD256270 | R. CAR. CHP 2.7KΩ 1/10W |
| | RD256330 | R. CAR. CHP 3.3KΩ 1/10W |
| | RD256360 | R. CAR. CHP 3.6KΩ 1/10W |
| | RD256390 | R. CAR. CHP 3.9KΩ 1/10W |
| | RD256470 | R. CAR. CHP 4.7KΩ 1/10W |
| | RD256560 | R. CAR. CHP 5.6KΩ 1/10W |
| | RD256680 | R. CAR. CHP 6.8KΩ 1/10W |
| | RD256820 | R. CAR. CHP 8.2KΩ 1/10W |
| | RD256910 | R. CAR. CHP 9.1KΩ 1/10W |
| | RD257100 | R. CAR. CHP 10KΩ 1/10W |
| | RD257120 | R. CAR. CHP 12KΩ 1/10W |
| | RD257130 | R. CAR. CHP 13KΩ 1/10W |
| | RD257150 | R. CAR. CHP 15KΩ 1/10W |
| | RD257180 | R. CAR. CHP 18KΩ 1/10W |
| | RD257220 | R. CAR. CHP 22KΩ 1/10W |
| | RD257270 | R. CAR. CHP 27KΩ 1/10W |
| | RD257330 | R. CAR. CHP 33KΩ 1/10W |
| | RD257390 | R. CAR. CHP 39KΩ 1/10W |
| | RD257470 | R. CAR. CHP 47KΩ 1/10W |
| | RD257560 | R. CAR. CHP 56KΩ 1/10W |
| | RD257680 | R. CAR. CHP 68KΩ 1/10W |
| | RD257750 | R. CAR. CHP 75KΩ 1/10W |
| | RD257910 | R. CAR. CHP 91KΩ 1/10W |
| | RD258100 | R. CAR. CHP 100KΩ 1/10W |
| | RD258150 | R. CAR. CHP 150KΩ 1/10W |
| | RD258330 | R. CAR. CHP 330KΩ 1/10W |
| | RD258470 | R. CAR. CHP 470KΩ 1/10W |
| | RD258680 | R. CAR. CHP 680KΩ 1/10W |
| | RD259100 | R. CAR. CHP 1MΩ 1/10W |
| | RD259470 | R. CAR. CHP 4.7MΩ 1/10W |

*New Parts

| Schm Ref. | PART NO. | Description |
|-----------|----------|-----------------------|
| | HV453100 | R. CAR. FP 1Ω 1/4W |
| | HV453220 | R. CAR. FP 2.2Ω 1/4W |
| △ | HV453470 | R. CAR. FP 4.7Ω 1/4W |
| | HV453680 | R. CAR. FP 6.8Ω 1/4W |
| | HV456820 | R. CAR. FP 8.2Ω 1/4W |
| △ | HV454100 | R. CAR. FP 10Ω 1/4W |
| | HV454120 | R. CAR. FP 12Ω 1/4W |
| | HV454330 | R. CAR. FP 33Ω 1/4W |
| △ | HV454470 | R. CAR. FP 47Ω 1/4W |
| | HV455100 | R. CAR. FP 100Ω 1/4W |
| | HV455120 | R. CAR. FP 120Ω 1/4W |
| | HV455150 | R. CAR. FP 150Ω 1/4W |
| | HV455220 | R. CAR. FP 220Ω 1/4W |
| △ | HV455330 | R. CAR. FP 330Ω 1/4W |
| | HV455470 | R. CAR. FP 470Ω 1/4W |
| | HV455560 | R. CAR. FP 560Ω 1/4W |
| | HV455680 | R. CAR. FP 680Ω 1/4W |
| △ | HV456150 | R. CAR. FP 1.5KΩ 1/4W |
| △ | HV456220 | R. CAR. FP 2.2KΩ 1/4W |
| | HV456330 | R. CAR. FP 3.3KΩ 1/4W |
| | HV456470 | R. CAR. FP 4.7KΩ 1/4W |
| | HV456680 | R. CAR. FP 6.8KΩ 1/4W |

*New Parts

RX-V2092

EXPLODED VIEW

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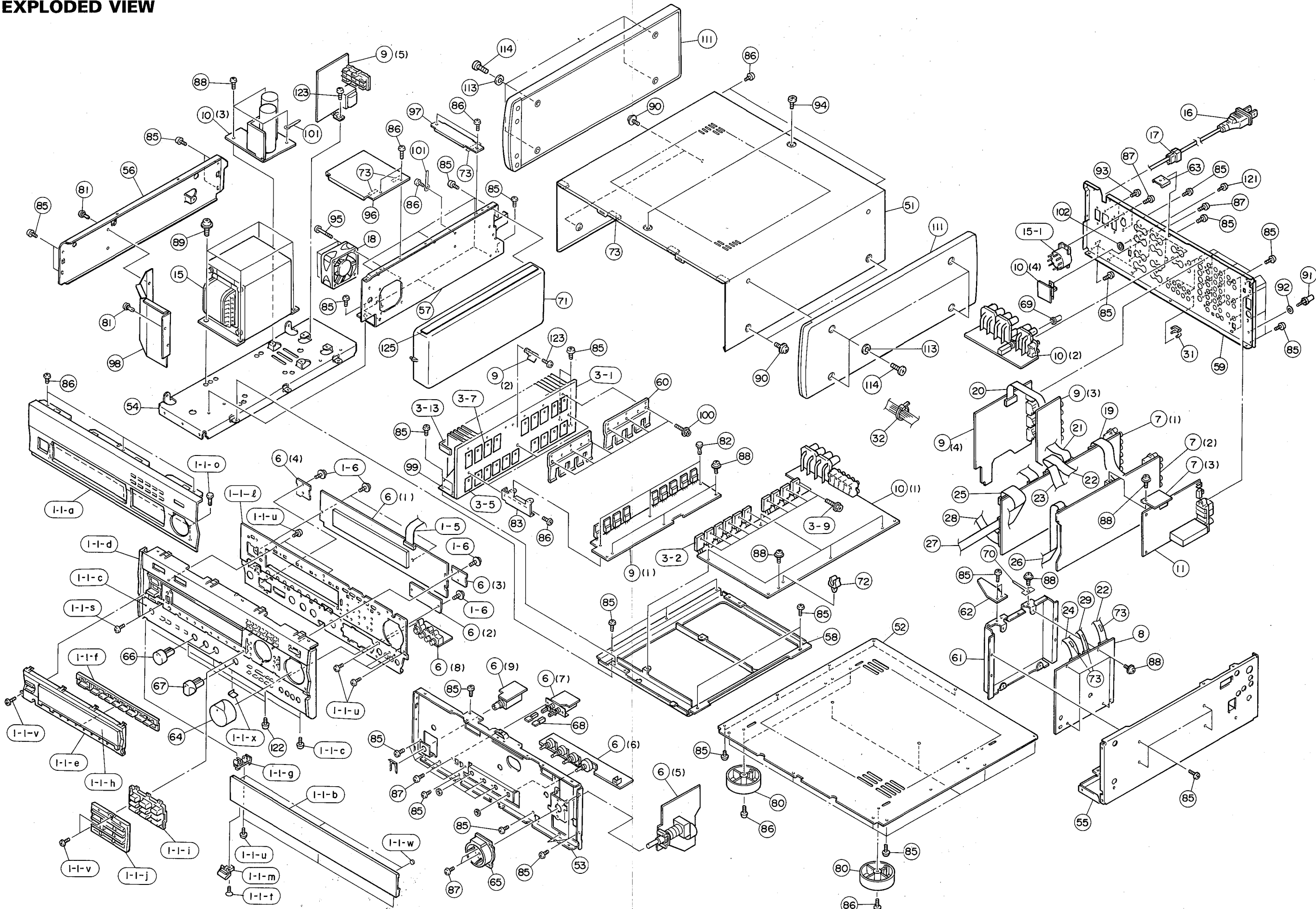
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MECHANICAL PARTS

| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|------------------------------|----------------|---------|
| * 1-1-a | VV692600 | FRONT PANEL | BL | |
| * 1-1-a | VY730900 | FRONT PANEL | TI | |
| * 1-1-b | VV692900 | PANEL, LID | BL | |
| 1-1-b | VY980500 | PANEL, LID | TI | |
| * 1-1-c | VV693100 | PLATE | BL | |
| * 1-1-c | VY732700 | PLATE | TI | |
| * 1-1-d | VV693700 | SUB PANEL CASE | BL | |
| * 1-1-d | VV693800 | SUB PANEL CASE | TI | |
| * 1-1-e | VV849400 | SUB PANEL | BL | |
| * 1-1-e | VV849500 | SUB PANEL | TI | |
| * 1-1-f | VV849600 | BUTTON | BL | |
| * 1-1-f | VV849700 | BUTTON | TI | |
| * 1-1-g | VV694800 | HINGE, LID | BL | |
| * 1-1-g | VV695000 | HINGE, LID | TI | |
| * 1-1-h | VV695200 | WINDOW PANEL, LID | | (UC) |
| * 1-1-h | VY680600 | WINDOW PANEL, LID | | (RAL) |
| * 1-1-i | VV850700 | BUTTON | I | BL |
| * 1-1-i | VV850800 | BUTTON | I | TI |
| * 1-1-j | VV851000 | SUB PANEL | BL | |
| * 1-1-j | VV851200 | SUB PANEL | TI | |
| * 1-1-l | VV850600 | SUPPORT | FRONT | |
| 1-1-m | VY980700 | POST, LID | | |
| 1-1-o | CB068880 | PLASTIC RIVET | No. 1027 | |
| 1-1-s | VN413300 | BIND HEAD BONDING B-T. SCREW | 3x8 MFZN2-BL | |
| 1-1-t | EC030030 | FLAT HEAD SCREW | 3x6 MFZN2-BL | |
| 1-1-u | EP600190 | BIND HEAD B-TITE SCREW | 3x8 ZMC2-BL | |
| 1-1-v | EP600140 | BIND HEAD B-TITE SCREW | 3x10 MFZN2-BL | |
| * 1-1-w | VY822200 | CUSHION, LID | | BL |
| * 1-1-w | VY822400 | CUSHION, LID | | TI |
| 1-1-x | VZ177700 | SHEET, GND | UC-3E0690 | |
| * 1-5 | VY839000 | CONNECTOR, FLAT CABLE | 15P 300mm | |
| 1-6 | EK930010 | PW HEAD B-TITE SCREW | 3x8-8 FCRM3-BL | |
| * 3- 1 | VV693500 | HEAT SINK | 40BS300-L110 | |
| # 3- 2 | VY705000 | TRANSISTOR | 2SC5200 R, O | |
| 3- 5 | VK196000 | SHEET | 22x29 | |
| 3- 7 | VK195900 | SHEET | 19x24 | |
| 3- 9 | VK173200 | SCREW, TRANSISTOR | 3x15 SP FCM3 | |
| 3-13 | VU195800 | DAMPER, FIN | | |
| * 6 | VY769700 | P. C. B. ASS'Y | OPERATION | (UC) |
| * 6 | VY769800 | P. C. B. ASS'Y | OPERATION | (RAL) |
| * 7 | VY769900 | P. C. B. ASS'Y | FUNCTION | (UC) |
| * 7 | VY770000 | P. C. B. ASS'Y | FUNCTION | (R) |
| * 7 | VY770100 | P. C. B. ASS'Y | FUNCTION | (AL) |
| * 8 | VY770200 | P. C. B. ASS'Y | DSP | (UC) |
| 8 | VZ051100 | P. C. B. ASS'Y | DSP | (RAL) |
| * 9 | VY770300 | P. C. B. ASS'Y | VIDEO | (UC) |
| * 9 | VY770400 | P. C. B. ASS'Y | VIDEO | (R) |
| * 9 | VY770500 | P. C. B. ASS'Y | VIDEO | (A) |
| * 9 | VY770600 | P. C. B. ASS'Y | VIDEO | (L) |
| * 10 | VY770700 | P. C. B. ASS'Y | MAIN | (UCA) |
| * 10 | VY770800 | P. C. B. ASS'Y | MAIN | (R) |
| * 10 | VY809000 | P. C. B. ASS'Y | MAIN | (L) |
| 11 | VV610200 | P. C. B. ASS'Y | TUNER | (UC) |

* New Parts

| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|-------------------------|--------------------|---------|
| 11 | VV610300 | P. C. B. ASS'Y | TUNER | (R) |
| 11 | VV610400 | P. C. B. ASS'Y | TUNER | (AL) |
| △ * 15 | XT312A00 | POWER TRANSFORMER | | (U) |
| △ * 15 | XT313A00 | POWER TRANSFORMER | | (C) |
| △ * 15 | XT315A00 | POWER TRANSFORMER | | (A) |
| △ * 15 | XT316B00 | POWER TRANSFORMER | | (L) |
| △ * 15 | VY770900 | POWER TRANSFORMER ASS'Y | | (R) |
| △ * 15 | XT314A00 | POWER TRANSFORMER | | (R) |
| △ 15-1 | Vi449800 | VOLTAGE SELECTOR | ESE-37284-F | (R) |
| △ 16 | VP418300 | POWER CORD ASS'Y | | (A) |
| △ 16 | VQ458400 | POWER CORD ASS'Y | | (R) |
| △ 16 | VS759300 | POWER CORD ASS'Y | | (L) |
| △ 16 | VU122900 | POWER CORD ASS'Y | | (UC) |
| 17 | VN158600 | CORD STOPPER | No. 2104 | |
| 18 | VV272500 | DC FAN MOTOR | 2410ML-05W-B20-L00 | |
| * 19 | VY839400 | CONNECTOR, FLAT CABLE | 27P 120mm | |
| 20 | VQ157200 | CONNECTOR, FLAT CABLE | 16P 60mm | |
| * 21 | VY838800 | CONNECTOR, FLAT CABLE | 12P 80mm | |
| * 22 | VY838900 | CONNECTOR, FLAT CABLE | 14P 120mm | |
| * 23 | VY838700 | CONNECTOR, FLAT CABLE | 11p 160mm | |
| * 24 | VY839300 | CONNECTOR, FLAT CABLE | 20P 120mm | |
| * 25 | VY839100 | CONNECTOR, FLAT CABLE | 16P 120mm | |
| * 26 | VY838600 | CONNECTOR, FLAT CABLE | 10P 220mm | |
| * 27 | VY838500 | CONNECTOR, FLAT CABLE | 10P 200mm | |
| * 28 | VY839200 | CONNECTOR, FLAT CABLE | 19P 100mm | |
| 29 | VY952000 | CONNECTOR, FLAT CABLE | 5P 180mm | |
| 31 | VQ194100 | SHORT PLUG | CNT31-0 | |
| 32 | CB069250 | BINDING TIE | BK-1 | |
| * 51 | VV690300 | TOP COVER | | BL |
| * 51 | VV690500 | TOP COVER | | TI |
| * 52 | VV690600 | BOTTOM COVER | | |
| * 53 | VV690700 | SUB CHASSIS | | |
| * 54 | VV690800 | FRAME | L | |
| * 55 | VV690900 | FRAME | R | |
| * 56 | VV691000 | FRAME | SL | |
| * 57 | VV691100 | FRAME | SF | |
| * 58 | VV691200 | FRAME | C | |
| * 59 | VV691300 | REAR PANEL | | (U) |
| * 59 | VV691400 | REAR PANEL | | (C) |
| * 59 | VV691500 | REAR PANEL | | (R) |
| * 59 | VV691600 | REAR PANEL | | (A) |
| * 59 | VV691700 | REAR PANEL | | (L) |
| * 60 | VV826100 | SUPPORT | TR | |
| * 61 | VV306300 | SHIELD CASE | | |
| * 62 | VV850500 | SUPPORT | D/PCB | |
| 63 | VV306200 | SSUPPORT, TOP | | |
| 64 | VV268600 | KNOB, LED | D40 | BL |
| 64 | VV268700 | KNOB, LED | D40 | TI |
| 65 | VV149500 | ESCUTCHEON, VOL | | BL |
| 65 | VV149600 | ESCUTCHEON, VOL | | TI |
| 66 | VS757200 | KNOB, P | D12 | BL |
| 66 | VS757300 | KNOB, P | D12 | TI |
| 67 | VT275100 | KNOB | D12R | BL |

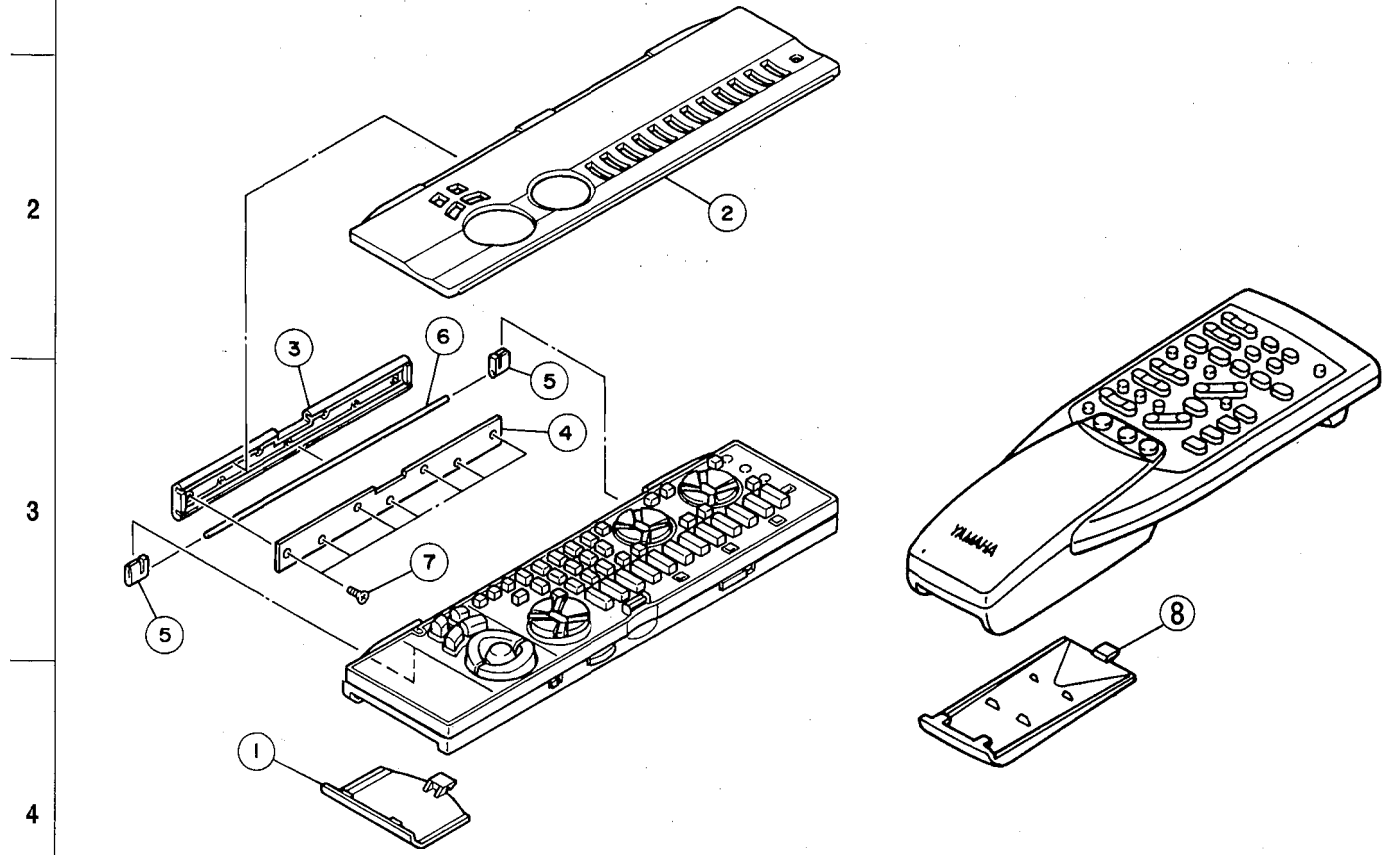
* New Parts

| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|------------------------------|--------------------|---------|
| 67 | VI275200 | KNOB | D12R | TI |
| 68 | VV123500 | BUTTON, 3/8 | | BL |
| 68 | VV123600 | BUTTON, 3/8 | | TI |
| 69 | VS048300 | BUTTON | D7 | |
| 70 | VN806000 | GROUND PLATE | | (UC) |
| * 71 | VV713600 | BRACKET | F | |
| * 72 | VY707200 | PCB HOLDER | A-1 3R48 | |
| 73 | VE222600 | CUSHION | | |
| 80 | VS025000 | LEG | D60xH21 | |
| 81 | CB068880 | PLASTIC RIVET | No. 1027 | |
| 82 | CB605620 | PLASTIC RIVET | No. 1781 | |
| 83 | VV692400 | SUPPORT | H/PCB | |
| 85 | VN413300 | BIND HEAD BONDING B-T. SCREW | 3x8 MFZN2-BL | |
| 86 | EP600190 | BIND HEAD B-TITE SCREW | 3x8 ZMC2-BL | |
| 87 | ED330066 | BIND HEAD SCREW | 3x6 FCRM3-BL | |
| 88 | EK930010 | PW HEAD B-TITE SCREW | 3x8-8 FCRM3-BL | |
| 89 | VK625000 | CUP S-TITE SCREW | 5x10-12 ZMC2-Y | |
| 90 | EK365090 | PW HEAD S-TITE SCREW | 4x8-10 FCRM3-BL | |
| 91 | AA627310 | GROUND TERMINAL | | |
| 92 | EV265560 | PLAIN WASHER | 3.6x10x0.8 FNM3-3G | |
| 93 | EP600220 | BIND HEAD B-TITE SCREW | 3x10 ZMC2-Y | |
| 94 | EX601850 | SPECIAL SCREW S-TITE | 4x8-10 FCRM3-BL | BL |
| 94 | EX601860 | SPECIAL SCREW S-TITE | 4x8-10 FNM3-BL | TI |
| 95 | VV220300 | BIND HEAD B-TITE SCREW | 3x30 MFZN2-BL | |
| 96 | VY979800 | SUPPORT, FAN COVER | | |
| 97 | VY980000 | SUPPORT | R | |
| 98 | VY980100 | PLATE, FAN COVER | | |
| 99 | VY980200 | PLATE, HEATSINK | H | |
| 100 | VK173200 | SCREW, TRANSISTOR | 3x15 SP FCM3 | |
| 101 | CB502030 | BINDING TIE | S-75B | |
| 102 | VZ180200 | SPACER | | |
| * 111 | VY835600 | SIDE PANEL | PAIR | |
| 113 | EX602690 | SPRING WASHER | D5 FCRM3-BL | |
| 114 | VC077200 | FLAT FILLISTER HEAD SCREW | 4x27 FCRM3-BR | |
| 121 | VY731200 | BONDING HEAD TAPPING SCREW | 3x10 MFNI33 | |
| 122 | EX602240 | BW HEAD TAPPING SCREW | 3x10 | |
| 123 | VK697600 | BIND HEAD B-TITE SCREW | 3x10 SP ZMC2-Y | |
| 125 | VZ012900 | CUSHION, FAN | | |
| | | ACCESSORIES | | |
| * * * | VV627100 | REMOTE CONTROL TRANSMITTER | RRC4000-5401R | |
| * * * | VV627300 | REMOTE CONTROL TRANSMITTER | | |
| * * * | VY731700 | LABEL, REMOTE CONTROL | | |
| | VE366200 | LOOP ANTENNA | AM | |
| | VG850700 | ANTENNA, FM | 1.4m | |
| | VT948000 | ANTENNA ADAPTER | | (UC) |
| | VH214900 | BATTERY | SUM-3, AA, R06 | |

* New Parts

A B C D E

1 ■ EXPLODED VIEW



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| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|----------------------------|---------------|---------------|
| * * * | VV627100 | REMOTE CONTROL TRANSMITTER | RRC4000-5401R | RRC40005401R |
| * 1 | CX680040 | COVER, BATTERY | | 103RRC11101R |
| * 2 | CX680050 | LID | | 103RRC11201R |
| * 3 | CX680060 | BRACKET | A | 503RRC00401R |
| * 4 | CX680070 | BRACKET | B | 503RRC00501R |
| * 5 | CX680080 | GUIDE PIN | | 522RRC00101R |
| * 6 | CX680090 | PIN | | 524RRC00101R |
| * 7 | EX603910 | SCREW | M1.7x13.5 | ABB1703321001 |
| * * * | VV627300 | REMOTE CONTROL TRANSMITTER | | |
| 8 | CX679050 | LID | | |

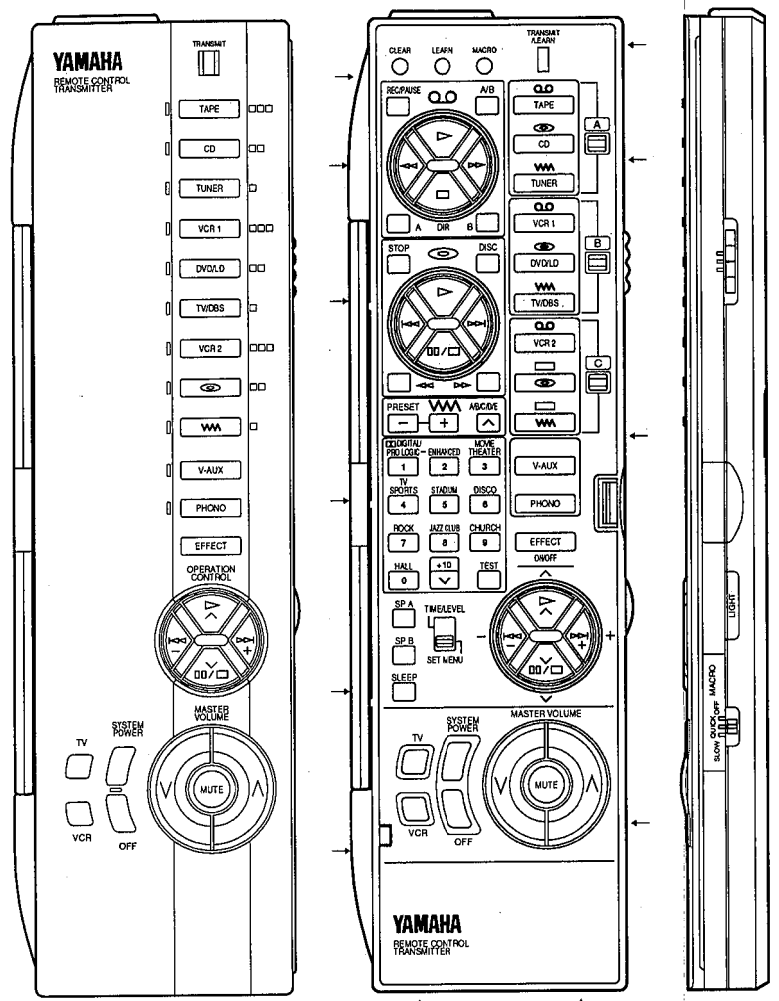
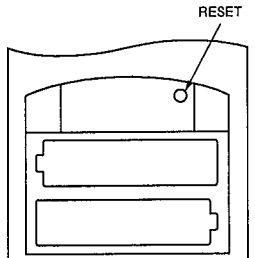
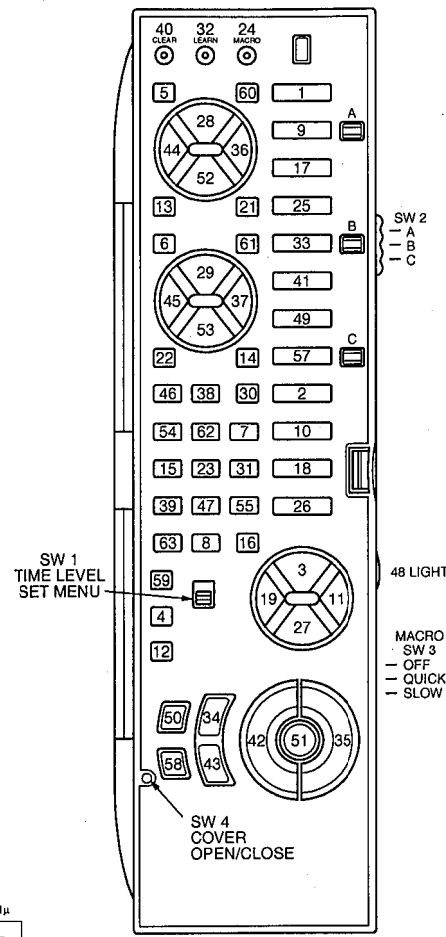
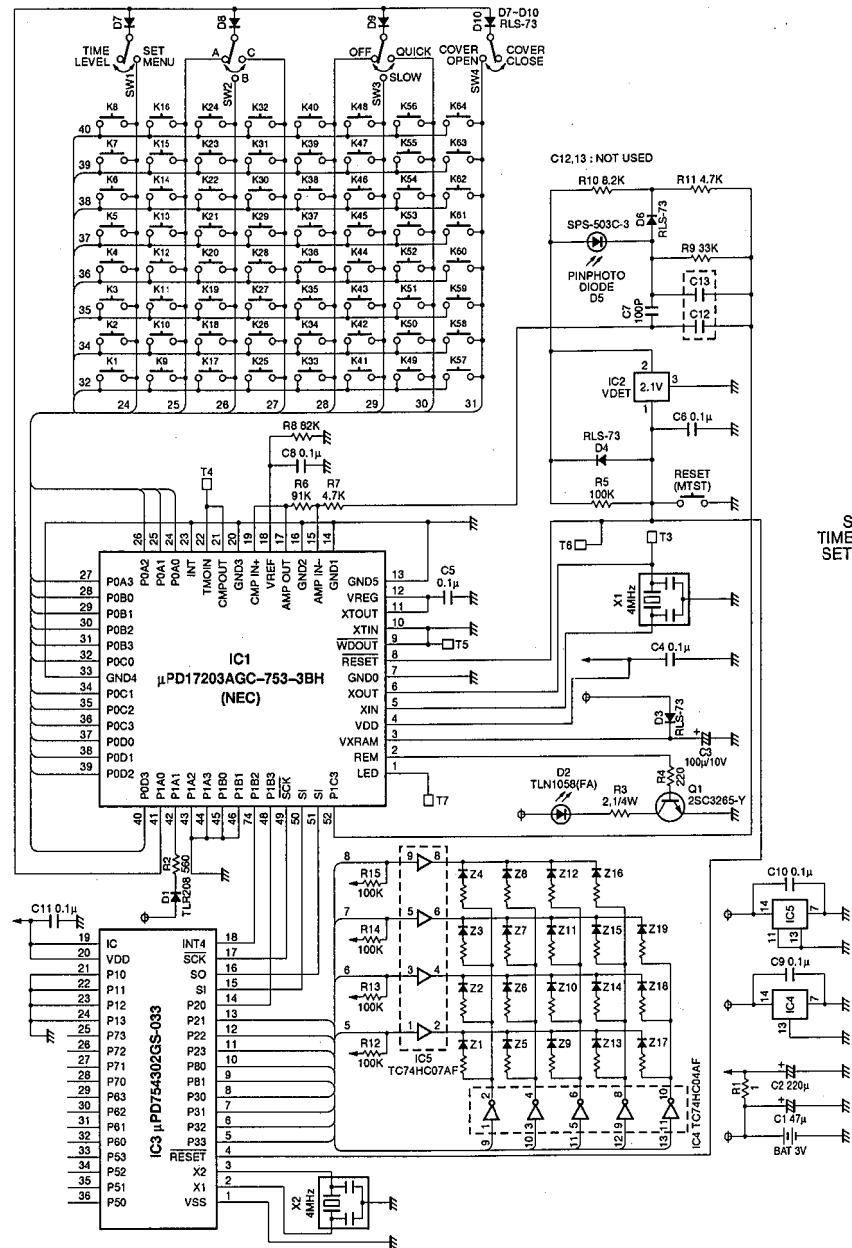
* New Parts

7

REMOTE CONTROL TRANSMITTER

SCHEMATIC DIAGRAM

Key arrangement



MACRO transmission
Transmission code of initial setting shows under the below. (key No.)
Each transmission code is the fixed or learning code.

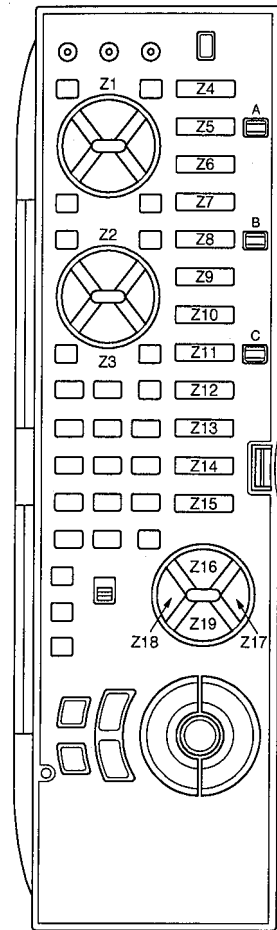
| Key No. | COVER | | CLOSE | | | | | | |
|---------|------------------|------|---------------|-------|---|---|---|---|--|
| | SW 1 | SW 2 | Don't care. | | | | | | |
| | SW 3 | SW 3 | QUICK or SLOW | | | | | | |
| | MACRO order | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1 | TAPE | K34 | K1 | K28-A | - | - | - | - | |
| 2 | W | K34 | K2 | - | - | - | - | - | |
| 9 | CD | K34 | K9 | K29-A | - | - | - | - | |
| 10 | V-AUX | K34 | K10 | - | - | - | - | - | |
| 17 | TUNER | K34 | K17 | - | - | - | - | - | |
| 18 | PHONO | K34 | K18 | - | - | - | - | - | |
| 25 | VCR | K34 | K25 | K28-B | - | - | - | - | |
| 33 | DVD/LD | K34 | K33 | K29-B | - | - | - | - | |
| 34 | SYSTEM POWER | K34 | K50 | K58 | - | - | - | - | |
| 41 | TV/DBS | K34 | K41 | - | - | - | - | - | |
| 43 | SYSTEM POWER OFF | K43 | - | - | - | - | - | - | |
| 49 | VCR 2 | K34 | K49 | K28-A | - | - | - | - | |
| 57 | 0 | K34 | K57 | K29-B | - | - | - | - | |

Detail : K x x - O
Key No. The position of SW2

List of the fixed code

| Key No. | SW 1 | SW 2 | SET MENU | | | TIME/LEVEL | | |
|---------|-----------|--------|----------|----------|----------|------------|----------|----------|
| | | | A | B | C | A | B | C |
| 1 | TAPE | | 7A-85-18 | 7A-85-18 | 7A-85-18 | 7A-85-18 | 7A-85-18 | 7A-85-18 |
| 2 | W | | | | | | | |
| 3 | A > A | | 7A-85-9D | 7A-85-9D | 7A-85-9D | 7A-85-98 | 7A-85-98 | 7A-85-98 |
| 4 | SP B | | 7A-85-9B | 7A-85-9B | 7A-85-9B | 7A-85-9B | 7A-85-9B | 7A-85-9B |
| 5 | REC/PAUSE | | 7A-85-04 | | | 7A-85-04 | | |
| 6 | STOP | | | | 7C-83-5B | | | 7C-83-5B |
| 7 | 3 | | 7A-85-8A | 7A-85-8A | 7A-85-8A | 7A-85-8A | 7A-85-8A | 7A-85-8A |
| 8 | +10 | | | | | | | |
| 9 | CD | | 7A-85-15 | 7A-85-15 | 7A-85-15 | 7A-85-15 | 7A-85-15 | 7A-85-15 |
| 10 | V-AUX | | 7A-85-55 | 7A-85-55 | 7A-85-55 | 7A-85-55 | 7A-85-55 | 7A-85-55 |
| 11 | + > > + | | 7A-85-9E | 7A-85-9E | 7A-85-9E | 7A-85-52 | 7A-85-52 | 7A-85-52 |
| 12 | SLEEP | | 7A-85-57 | 7A-85-57 | 7A-85-57 | 7A-85-57 | 7A-85-57 | 7A-85-57 |
| 13 | DIR A | | 7A-85-07 | | | 7A-85-07 | | |
| 14 | >>> | | 7A-85-0C | | 7C-83-07 | 7A-85-0C | | 7C-83-07 |
| 15 | 4 | | 7A-85-8B | 7A-85-8B | 7A-85-8B | 7A-85-8B | 7A-85-8B | 7A-85-8B |
| 16 | TEST | | 7A-85-85 | 7A-85-85 | 7A-85-85 | 7A-85-85 | 7A-85-85 | 7A-85-85 |
| 17 | TUNER | | 7A-85-16 | 7A-85-16 | 7A-85-16 | 7A-85-16 | 7A-85-16 | 7A-85-16 |
| 18 | PHONO | | 7A-85-14 | 7A-85-14 | 7A-85-14 | 7A-85-14 | 7A-85-14 | 7A-85-14 |
| 19 | < < < | | 7A-85-9F | 7A-85-9F | 7A-85-9F | 7A-85-53 | 7A-85-53 | 7A-85-53 |
| 20 | NOT USED | | 7A-85-97 | 7A-85-97 | 7A-85-97 | 7A-85-87 | 7A-85-87 | 7A-85-87 |
| 21 | DIR B | | 7A-85-40 | | | 7A-85-40 | | |
| 22 | <<< | | 7A-85-0D | | 7C-83-06 | 7A-85-0D | | 7C-83-06 |
| 23 | 5 | | 7A-85-8E | 7A-85-8E | 7A-85-8E | 7A-85-8E | 7A-85-8E | 7A-85-8E |
| 25 | VCR | | 7A-85-0F | 7A-85-0F | 7A-85-0F | 7A-85-0F | 7A-85-0F | 7A-85-0F |
| 26 | EFFECT | | 7A-85-56 | 7A-85-56 | 7A-85-56 | 7A-85-56 | 7A-85-56 | 7A-85-56 |
| 27 | V DRC/V | | 7A-85-9C | 7A-85-9C | 7A-85-9C | 7A-85-99 | 7A-85-99 | 7A-85-99 |
| 28 | > | (TAPE) | 7A-85-00 | | | 7A-85-00 | | |
| 29 | > | (CD) | 7A-85-08 | | 7C-83-05 | 7A-85-08 | | 7C-83-05 |
| 30 | A/B/C/D/E | | 7A-85-12 | | | 7A-85-12 | | |
| 31 | 6 | | 7A-85-8F | 7A-85-8F | 7A-85-8F | 7A-85-8F | 7A-85-8F | 7A-85-8F |

| Key No. | SW 1 | SW 2 | SET MENU | | | TIME/LEVEL | | |
|---------|------------------|------|----------|----------|----------|------------|----------|----------|
| | | | A | B | C | A | B | C |
| 33 | DVD/LD | | 7A-85-17 | 7A-85-17 | 7A-85-17 | 7A-85-17 | 7A-85-17 | 7A-85-17 |
| 34 | SYSTEM POWER | | 7A-85-1D | 7A-85-1D | 7A-85-1D | 7A-85-1D | 7A-85-1D | 7A-85-1D |
| 35 | MASTER VOL + | | 7A-85-1A | 7A-85-1A | 7A-85-1A | 7A-85-1A | 7A-85-1A | 7A-85-1A |
| 36 | >>> | | 7A-85-02 | | | 7A-85-02 | | |
| 37 | >>> | | 7A-85-0A | | 7C-83-03 | 7A-85-0A | | 7C-83-03 |
| 38 | PRESET + | | 7A-85-10 | | | 7A-85-10 | | |
| 39 | 7 | | 7A-85-8C | 7A-85-8C | 7A-85-8C | 7A-85-8C | 7A-85-8C | 7A-85-8C |
| 41 | TV/DBS | | 7A-85-54 | 7A-85-54 | 7A-85-54 | 7A-85-54 | 7A-85-54 | 7A-85-54 |
| 42 | MASTER VOL - | | 7A-85-1B | 7A-85-1B | 7A-85-1B | 7A-85-1B | 7A-85-1B | 7A-85-1B |
| 43 | SYSTEM POWER OFF | | 7A-85-1E | 7A-85-1E | 7A-85-1E | 7A-85-1E | 7A-85-1E | 7A-85-1E |
| 44 | <<< | | 7A-85-01 | | | 7A-85-01 | | |
| 45 | <<< | | 7A-85-0B | | 7C-83-02 | 7A-85-0B | | 7C-83-02 |
| 46 | PRESET - | | 7A-85-11 | | | 7A-85-11 | | |
| 47 | 8 | | 7A-85-8D | 7A-85-8D | 7A-85-8D | 7A-85-8D | 7A-85-8D | 7A-85-8D |
| 49 | VTR2 | | 7A-85-13 | 7A-85-13 | 7A-85-13 | 7A-85-13 | 7A-85-13 | 7A-85-13 |
| 80 | SYSTEM POWER TV | | | | | | | |
| 51 | MUTE | | 7A-85-1C | 7A-85-1C | 7A-85-1C | 7A-85-1C | 7A-85-1C | 7A-85-1C |
| 52 | □ | | 7A-85-03 | | | 7A-85-03 | | |
| 53 | 00/□ | | 7A-85-09 | | 7C-83-04 | 7A-85-09 | | 7C-83-04 |
| 54 | 1 | | 7A-85-88 | 7A-85-88 | 7A-85-88 | 7A-85-88 | 7A-85-88 | 7A-85-88 |
| 55 | 9 | | 7A-85-90 | 7A-85-90 | 7A-85-90 | 7A-85-90 | 7A-85-90 | 7A-85-90 |
| 57 | 0 | | | | | | | |
| 58 | SYSTEM POWER VCR | | | | | | | |
| 59 | SP A | | 7A-85-9A | 7A-85-9A | 7A-85-9A | 7A-85-9A | 7A-85-9A | 7A-85-9A |
| 60 | A/B | | 7A-85-06 | | | 7A-85-06 | | |
| 61 | DISC | | 7A-85-4F | | | 7A-85-4F | | |
| 62 | 2 | | 7A-85-89 | 7A-85-89 | 7A-85-89 | 7A-85-89 | 7A-85-89 | 7A-85-89 |
| 63 | 0 | | 7A-85-91 | 7A-85-91 | 7A-85-91 | 7A-85-91 | 7A-85-91 | 7A-85-91 |



Lighting point

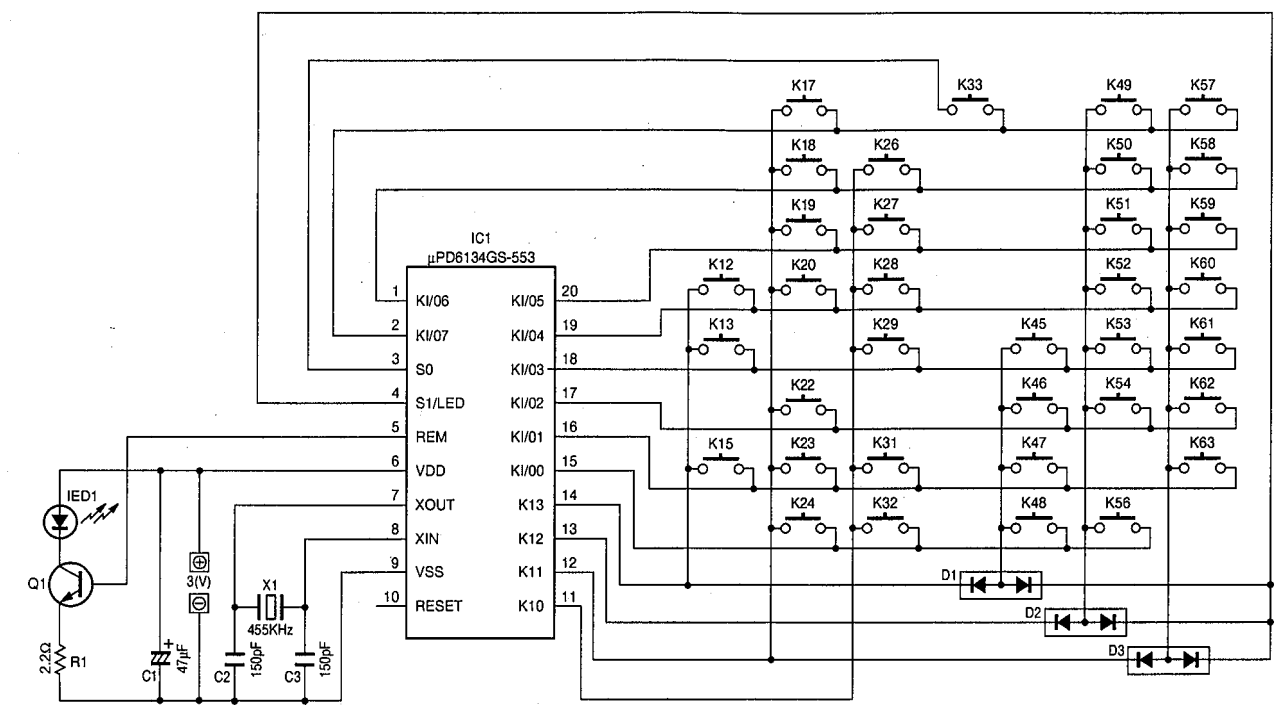
| Key No. | COVER | | OPEN | | |
|---------|-----------|------|-------------|-------|--------|
| | SW 1 | SW 3 | Don't care. | | |
| | SW 2 | | A | B | C |
| 1 | TAPE | | Z1,Z4 | Z4 | Z4 |
| 2 | VCR | | Z12 | Z12 | Z3,Z12 |
| 5 | REC/PAUSE | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 6 | STOP | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 9 | CD | | Z2,Z5 | Z5 | Z5 |
| 10 | V-AUX | | Z13 | Z13 | Z13 |
| 13 | DIR A | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 14 | ▶▶ (CD) | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 17 | TUNER | | Z3,Z6 | Z6 | Z6 |
| 18 | PHONO | | Z14 | Z14 | Z14 |
| 21 | DIR B | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 22 | ◀◀ (CD) | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 25 | VCR | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 26 | EFFECT | | Z15 | Z15 | Z15 |
| 28 | ▶ (TAPE) | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 29 | ▶ (CD) | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 30 | A/B/C/D/E | | Z3,Z6 | Z3,Z9 | Z3,Z12 |
| 33 | DVD/LD | | Z8 | Z2,Z8 | Z8 |
| 36 | ▶▶ (TAPE) | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 37 | ▶▶▶ | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 38 | PRESET + | | Z3,Z6 | Z3,Z9 | Z3,Z12 |
| 41 | TV/DBS | | Z9 | Z3,Z9 | Z9 |
| 44 | ◀◀ (TAPE) | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 45 | ◀◀◀ | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 46 | PRESET - | | Z3,Z6 | Z3,Z9 | Z3,Z12 |
| 49 | VCR 2 | | Z10 | Z10 | Z1,Z10 |
| 52 | ◀ | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 53 | ◀◀◀ | | Z2,Z5 | Z2,Z8 | Z2,Z11 |
| 57 | ▶ | | Z11 | Z11 | Z2,Z11 |
| 60 | A/B | | Z1,Z4 | Z1,Z7 | Z1,Z10 |
| 61 | DISC | | Z2,Z5 | Z2,Z8 | Z2,Z11 |

| Key No. | COVER | | CLOSE | | |
|---------|--------|------|--|--|--|
| | SW 1 | SW 3 | Don't care. | | |
| | SW 2 | | Don't care. | | |
| 1 | TAPE | | Z4:○, Z16:○, Z17:○, Z18:○, Z19:○ | | |
| 2 | VCR | | Z12:○, Z16:○, Z17:○, Z18:○, Z19:○, Z19:○, Z19:○, Z19:○, Z19:○ | | |
| 9 | CD | | Z5:○, Z16:○, Z17:○, Z18:○, Z19:○ | | |
| 10 | V-AUX | | Z13:○ | | |
| 17 | TUNER | | Z6:○, Z16:○, Z17:○, Z18:○ | | |
| 18 | PHONO | | Z14:○ | | |
| 25 | VCR | | Z7:○, Z16:○, Z17:○, Z18:○, Z18:○, Z18:○, Z18:○, Z18:○, Z18:○ | | |
| 26 | EFFECT | | Z15:○ | | |
| 33 | DVD/LD | | Z8:○, Z16:○, Z17:○, Z17:○, Z18:○, Z18:○, Z19:○, Z19:○, Z19:○ | | |
| 41 | TV/DBS | | Z9:○, Z16:○, Z17:○, Z17:○, Z18:○, Z18:○, Z19:○, Z19:○, Z19:○ | | |
| 49 | VCR 2 | | Z10:○, Z16:○, Z17:○, Z17:○, Z18:○, Z18:○, Z19:○, Z19:○, Z19:○ | | |
| 57 | ▶ | | Z11:○, Z16:○, Z17:○, Z18:○, Z19:○ | | |
| 3 | ▶ ▶ ▶ | | Same as the case of pushing the mode key of current mode. | | |
| 11 | + ▶▶▶ | | (In case of having set the mode TAPE, the lighting is same as the case of pushing TAPE key.) | | |
| 19 | - ▶▶▶ | | | | |
| 27 | VOLUME | | | | |

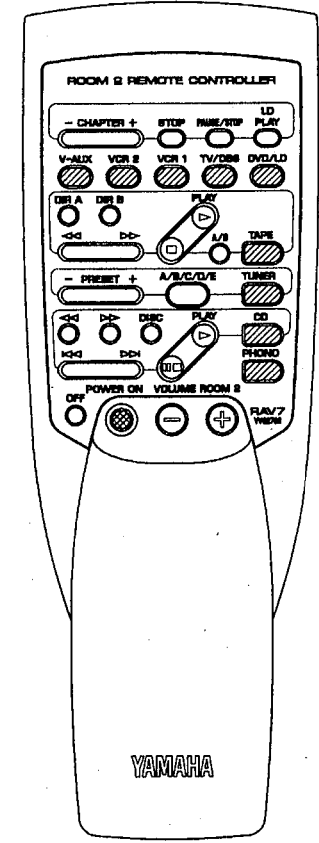
Detail: ○ ----- Lighting On.
 X X-Y ----- Lighting on if the key, that is key No. X X and SW2-Y, has been learned.

REMOTE CONTROL TRANSMITTER

SCHEMATIC DIAGRAM



1
2
3
4
5
6
7

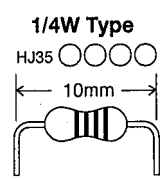


| Key No. | Function | HEX | |
|---------|----------------|--------|------|
| | | CUSTOM | DATA |
| 12 | DIR A | 7A | 07 |
| 13 | DIR B | 7A | 40 |
| 14 | | | |
| 15 | PLAY ▶ (TAPE) | 7A | 00 |
| 17 | ◀◀ (TAPE) | 7A | 01 |
| 18 | ▶▶ (TAPE) | 7A | 02 |
| 19 | □ (TAPE) | 7A | 03 |
| 20 | A/B | 7A | 06 |
| 22 | PRESET - | 7A | 11 |
| 23 | PRESET + | 7A | 10 |
| 24 | A/B/C/D/E | 7A | 12 |
| 26 | ◀◀ (CD) | 7A | 0D |
| 27 | ▶▶ (CD) | 7A | 0C |
| 28 | DISC | 7A | 4F |
| 29 | PLAY ▶ (CD) | 7A | 08 |
| 31 | ◀◀◀ | 7A | 0B |
| 32 | ▶▶▶ | 7A | 0A |
| 33 | ◀◀◀ | 7A | 09 |
| 34 | | | |
| 45 | CHAPTER - | 7C | 02 |
| 46 | CHAPTER + | 7C | 03 |
| 47 | STOP | 7C | 5B |
| 48 | PAUSE/STOP | 7C | 04 |
| 49 | LD PLAY | 7C | 05 |
| 50 | V-AUX | 7A | D8 |
| 51 | VCR 2 | 7A | D7 |
| 52 | VCR 1 | 7A | D6 |
| 53 | TV/DBS | 7A | D9 |
| 54 | DVD/LD | 7A | D5 |
| 55 | | | |
| 56 | TAPE | 7A | D3 |
| 57 | TUNER | 7A | D2 |
| 58 | CD | 7A | D1 |
| 59 | PHONO | 7A | D0 |
| 60 | POWER OFF | 7A | 1E |
| 61 | POWER ON | 7A | 1D |
| 62 | VOLUME ROOM2 - | 7A | DB |
| 63 | VOLUME ROOM2 + | 7A | DA |
| 64 | | | |

Parts List for Carbon Resistors

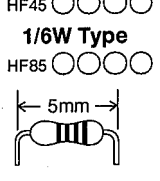
RX-V2092

| Value | 1/4W Type Part No. | 1/6W Type Part No. | Value | 1/4W Type Part No. | 1/6W Type Part No. |
|--------|--------------------|--------------------|--------|--------------------|--------------------|
| 1.0 Ω | HJ35 3100 | HF85 3100 | 10 kΩ | HF45 7100 | HF45 7100 |
| 1.8 Ω | HJ35 3180 | * | 11 kΩ | HF45 7110 | HF45 7110 |
| 2.2 Ω | HJ35 3220 | HF85 3220 | 12 kΩ | HJ35 7120 | HF85 7120 |
| 3.3 Ω | HJ35 3330 | HF85 3330 | 13 kΩ | HF45 7130 | HF45 7130 |
| 4.7 Ω | HJ35 3470 | HF85 3470 | 15 kΩ | HF45 7150 | HF45 7150 |
| 5.6 Ω | HJ35 3560 | HF85 3560 | 18 kΩ | HF45 7180 | HF45 7180 |
| 10 Ω | HF45 4100 | HF45 4100 | 22 kΩ | HF45 7220 | HF45 7220 |
| 15 Ω | HJ35 4150 | HF85 4150 | 24 kΩ | HF45 7240 | HF45 7240 |
| 22 Ω | HF45 4220 | HF45 4220 | 27 kΩ | HJ35 7270 | HF85 7270 |
| 27 Ω | HJ35 4270 | HF85 4270 | 30 kΩ | HF45 7300 | HF45 7300 |
| 33 Ω | HF45 4330 | HF45 4330 | 33 kΩ | HF45 7330 | HF45 7330 |
| 39 Ω | HJ35 4470 | HF85 4390 | 36 kΩ | HF45 7360 | HF45 7360 |
| 47 Ω | HF45 4470 | HF45 4470 | 39 kΩ | HF45 7390 | HF45 7390 |
| 56 Ω | HF45 4560 | HF45 4560 | 47 kΩ | HF45 7470 | HF45 7470 |
| 68 Ω | HF45 4680 | HF45 4680 | 51 kΩ | HF45 7510 | HF45 7510 |
| 75 Ω | HF45 4750 | HF45 4750 | 56 kΩ | HF45 7560 | HF45 7560 |
| 82 Ω | HF45 4820 | HF45 4820 | 62 kΩ | HF45 7620 | HF45 7620 |
| 91 Ω | HF45 4910 | HF45 4910 | 68 kΩ | HF45 7680 | HF45 7680 |
| 100 Ω | HF45 5100 | HF45 5100 | 82 kΩ | HF45 7820 | HF45 7820 |
| 110 Ω | HJ35 5110 | HF85 5110 | 91 kΩ | HF45 7910 | HF45 7910 |
| 120 Ω | HF45 5120 | HF45 5120 | 100 kΩ | HF45 8100 | HF45 8100 |
| 150 Ω | HF45 5150 | HF45 5150 | 110 kΩ | HF45 8110 | HF45 8110 |
| 160 Ω | HJ35 5160 | * | 120 kΩ | HF45 8120 | HF45 8120 |
| 180 Ω | HF45 5180 | HF45 5180 | 150 kΩ | HF45 8150 | HF45 8150 |
| 200 Ω | HF45 5200 | HF45 5200 | 180 kΩ | HF45 8180 | HF45 8180 |
| 220 Ω | HF45 5220 | HF45 5220 | 220 kΩ | HJ35 8220 | HF85 8220 |
| 270 Ω | HF45 5270 | HF45 5270 | 270 kΩ | HF45 8270 | HF45 8270 |
| 330 Ω | HF45 5330 | HF45 5330 | 300 kΩ | HF45 8300 | HF45 8300 |
| 390 Ω | HF45 5390 | HF45 5390 | 330 kΩ | HF45 8330 | HF45 8330 |
| 430 Ω | HF45 5430 | HF45 5430 | 390 kΩ | HJ35 8390 | HF85 8390 |
| 470 Ω | HF45 5470 | HF45 5470 | 470 kΩ | HF45 8470 | HF45 8470 |
| 510 Ω | HF45 5510 | HF45 5510 | 560 kΩ | HJ35 8560 | HF85 8560 |
| 560 Ω | HF45 5560 | HF45 5560 | 680 kΩ | HJ35 8680 | HF85 8680 |
| 680 Ω | HF45 5680 | HF45 5680 | 820 kΩ | HJ35 8820 | HF85 8820 |
| 820 Ω | HF45 5820 | HF45 5820 | 1.0 MΩ | HF45 9100 | HF45 9100 |
| 910 Ω | HF45 5910 | HF45 5910 | 1.2 MΩ | HJ35 9120 | * |
| 1.0 kΩ | HF45 6100 | HF45 6100 | 1.5 MΩ | HJ35 9150 | HF85 9150 |
| 1.2 kΩ | HF45 6120 | HF45 6120 | 1.8 MΩ | HJ35 9180 | HF85 9180 |
| 1.5 kΩ | HF45 6150 | HF45 6150 | 2.2 MΩ | HJ35 9220 | HF85 9220 |
| 1.8 kΩ | HF45 6180 | HF45 6180 | 3.3 MΩ | HJ35 9330 | HF85 9330 |
| 2.0 kΩ | HJ35 6200 | HF85 6200 | 3.9 MΩ | HJ35 9390 | * |
| 2.2 kΩ | HF45 6220 | HF45 6220 | 4.7 MΩ | HJ35 9470 | HF85 9470 |
| 2.4 kΩ | HJ35 6240 | HF85 6240 | | | |
| 2.7 kΩ | HF45 6270 | HF45 6270 | | | |
| 3.0 kΩ | HF45 6300 | HF45 6300 | | | |
| 3.3 kΩ | HF45 6330 | HF45 6330 | | | |
| 3.6 kΩ | HJ35 6360 | HF85 6360 | | | |
| 3.9 kΩ | HF45 6390 | HF45 6390 | | | |
| 4.7 kΩ | HF45 6470 | HF45 6470 | | | |
| 5.1 kΩ | HF45 6510 | HF45 6510 | | | |
| 5.6 kΩ | HF45 6560 | HF45 6560 | | | |
| 6.8 kΩ | HF45 6680 | HF45 6680 | | | |
| 8.2 kΩ | HF45 6820 | HF45 6820 | | | |
| 9.1 kΩ | HF45 6910 | HF45 6910 | | | |



1/4W Type
HJ35 ○○○○

10mm



1/4W Type
HF45 ○○○○

1/6W Type
HF85 ○○○○

5mm

RX-V2092

RX-V2092

YAMAHA
