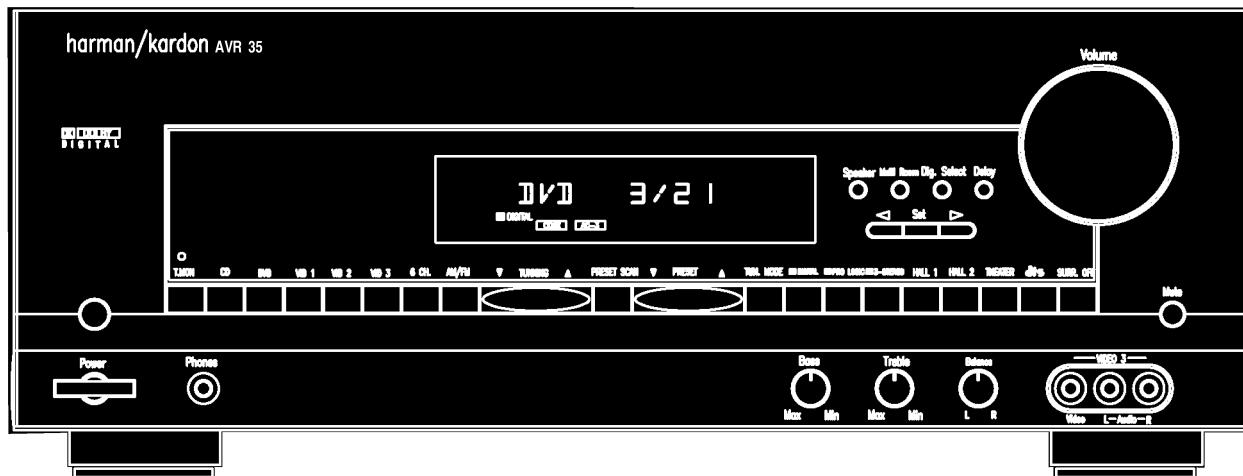


**The Harman Kardon
Model AVR 35
AUDIO AND VIDEO DIGITAL RECEIVER**

Manual A

Technical Manual



The following marks found in the parts list of the manual identify the models as follows.

- BK** AVR 35 : North America area model Black version
- IB** AVR 35 RDS : Europe area model Black version
- AB** AVR 35 SNG : Asia area model Black version

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harman/kardon

Parts and Service Office
250 Crossways Park Dr., Woodbury, N.Y.11797
1112-AVR35 1200 Printed in KOREA

AVR-35/35RDS/35SG

SPECIFICATIONS

FRONT AMP SECTION

| | Nominal | Limit | | Nominal | Limit |
|--|---------|--------|--------------------------------|-------------|-------------|
| Continuous Power Output (STEREO MODE), Input : CD | | | RMS Output Power | | |
| THD : 0.08%, 8 ohms | | | THD(0.5%, 8 ohms, 1kHz) | | |
| Both Channel Driven(20Hz-20kHz) (SURROUND MODE) | ≥40W | ≥35W | All Channel Driven | ≥40W | ≥35W |
| THD : 0.5%, 8 ohms, 1kHz | | | S/N Ratio(Input Level : 200mV) | | |
| THD : at 60W, 8 ohms, Input : CD | | | Input Shorted, IHF-A WTD | ≥65dB | ≥60dB |
| 20Hz | ≤0.03% | ≤0.08% | Frequency Responses at-3dB | | |
| 1kHz | ≤0.03% | ≤0.08% | 8 ohms, Dolby Pro Logic | 100Hz-20kHz | 150Hz-20kHz |
| 20kHz | ≤0.03% | ≤0.08% | | | |
| IM Distortion at 45W, 8 ohms, Vol : Max. | ≤0.03% | ≤0.08% | | | |

Input Sensitivity for Rated Power Output(35W)

CD/DVD/TAPE MONITOR 200mV 170~230mV

VID1/VID2/VID3 200mV 170~230mV

S/N Ratio Input Shorted at 1 kHz 1W Output(WTD IHF-A)

CD > 82dB

Tone Control

Bass : 100Hz + 10dB + 10dB±3dB

- 10dB - 10dB±3dB

Treble : 10kHz + 10dB + 10dB±3dB

- 10dB - 10dB±3dB

Frequency Response at-3dB

Mode : Stereo(1Watt)

10Hz-80kHz 10Hz-70kHz

Channel Crosstalk Input Shorted by 1 K Ohms

100Hz ≥ 63dB ≥ 55dB

1kHz ≥ 63dB ≥ 55dB

10kHz ≥ 62dB ≥ 45dB

CENTER AMP SECTION

| | Nominal | Limit |
|------------------|---------|-------|
| RMS Output Power | | |

THD(0.5%, 8 ohms, 1kHz)

All Channel Driven ≥ 40W ≥ 35W

S/N Ratio(Input Level : 200mV)

Input Shorted, IHF-A WTD ≥ 65dB ≥ 60dB

Frequency Responses at-3dB

8 ohms, Dolby Pro Logic 100Hz-20kHz

REAR AMP SECTION

| | Nominal | Limit |
|-------------------------------------|------------|------------|
| RMS Output Power | | |
| THD(0.5%, 8 ohms, 1kHz) | | |
| All Channel Driven | ≥ 40W | ≥ 35W |
| S/N Ratio(Input Shorted, IHF-A WTD) | | |
| Delay : 20ms, Input Level : 200mV | ≥ 65dB | ≥ 60dB |
| Frequency Response at-3dB | | |
| 8 ohms, Dolby Pro Logic | 100Hz-7kHz | 150Hz-7kHz |

SUB WOOFER SECTION

| | | |
|----------------------------------|--|--------------|
| Line Level at Pre Out | | |
| Surround mode : BYPASS(STEREO) | | |
| Input Signal : L ch (only) 200mV | | |
| Master Volume : + 5dB | | |
| Low pass crossover frequency | | 70Hz cut off |
| Slope (Low Pass Filter) | | 24dB/octave |

VIDEO AMP SECTION

| | | |
|-------------------------------|----------|----------------------|
| Input Sensitivity / impedance | | |
| VID1/VID2/VID3 | | 1Vp-p/75 ohm +/- 1dB |
| Output Level / Impedance | | |
| VID1/VID2/VID3 | | 1Vp-p/75 ohm +/- 1dB |
| Frequency Response at-3dB | DC-8 MHz | DC-6 MHz |

FM SECTION

Tuning Cover Range 100kHz Step for AVR-35

87.50 - 108.00 MHz

| | | | | | |
|--|-------------------|-----------------|--|---------------------------|-----------------|
| Tuning Cover Range 50 kHz Step for AVR-35RDS/SG | | | Image Rejection(at 999kHz) | ≥ 40 dB | ≥ 30 dB |
| | 87.50 ~ 108.00MHz | | IF Rejection(at 999/1000kHz) | ≥ 50 dB | ≥ 45 dB |
| Mono Usable Sensitivity(75 ohms Input, 98MHz) | | | AGC Figure of Merit(From 100mV/m at 999/1000kHz) | | |
| | ≤ 14.2 dbf | ≤ 17.2 dbf | | ≥ 50 dB | ≥ 45 dB |
| Image Rejection(at 98MHz) | | | Distortion(999/1000kHz, 30% MOD, 50mV/m Input) | | |
| | ≥ 80 dB | ≥ 70 dB | | $\leq 1.0\%$ | $\leq 2.0\%$ |
| IF Rejection(at 90MHz) | ≥ 90 dB | ≥ 80 dB | Frequency Response(999/1000Hz) | | |
| 46dB Queting Sensitivity(at 98MHz, 100% MOD.) | | | At-3dB | 100Hz-2.2kHz 150Hz-1.8kHz | |
| Stereo | ≤ 39.2 dbf | ≤ 43.3 dbf | Selectivity(999/1000Hz) | | |
| Distortion(1kHz, 75kHz dev. At 98MHz, 71dbf Input) | | | 9kHz/10kHz | ≥ 30 dB | ≥ 25 dB |
| Mono | $\leq 0.3\%$ | $\leq 0.5\%$ | S/N Ratio(999/1000kHz, With Antenna Input 5mV/m) | | |
| S/N Ratio(500uV Input, 100% MOD. At 98MHz) | | | | ≥ 45 dB | ≥ 40 dB |
| Stereo | ≥ 65 dB | ≥ 60 dB | Overload Break-up at 999/1000kHz(THD 10%) | | |
| Frequency Response(30Hz-15kHz) | | | | ≥ 1000 mV/m | ≥ 500 mV/m |
| AVR-35 De-Emphasis : 75μ s | $+ 0.5$ dB | $+ 1.0$ dB | Tape Output Level at 999/1000kHz(5mV/m Input) | | |
| AVR-35RDS/SG De-Emphasis : 50μ s | $- 2.0$ dB | $- 4.0$ dB | | 200mV | 160-240mV |
| AM Suppression at 98MHz | ≥ 50 dB | ≥ 450 B | | | |
| Muting Threshold(at 98MHz) | 31.2dbf | 39.2dbf | | | |
| Overload Break-up at 98 MHz | 71dbf | 65dbf | | | |
| Capture Ratio at 65dbf | ≤ 2 dB | ≤ 2.5 dB | | | |
| Stereo Separation(at 98MHz, 100% MOD, 500uV Input) | | | | | |
| IHF Band Pass Filter | | | | | |
| 1kHz | ≥ 40 dB | ≥ 35 dB | Power Consumption | | |
| Tape out Level(at 98MHz) | 500mV | 350-650mV | At Rated Power All Channel Driven | 332W | |
| | | | Idling at Minimum Volume Control | 72W | |

GENERAL

AM SECTION

| | Nominal | Limit |
|--|-----------------|------------------|
| Tuning Cover Range(MW) | | |
| AVR-35 : 10kHz/Step | 520-1710kHz | |
| AVR-35RDS/SG : 9kHz Step | 522-1611kHz | |
| Usable Sensitivity(MW, at 999 / 1000kHz) | ≤ 500 uV/m | ≤ 1000 uV/m |

Power Consumption

At Rated Power All Channel Driven 332W
Idling at Minimum Volume Control 72W

Power Supplies :

USA/Canada(AVR-35) AC120V, 60Hz
Europe(AVR-35RDS/SG) AC230V, 50Hz

Dimension(W x H x D)

Inches 17.3×6.5×17.1
MM 440×165×435

Weight(lbs/kgs) 29/13.2

These specifications are service target specs.

Specifications and components are subject to change without notice.

Overall performance will be maintained or improved.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

Components identified with the IEC symbol  in the parts list are special significance to safety. When replacing a component identified with , use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

LEAKAGE TEST(FOR SERVICE ENGINEERS IN THE U.S.A)

Before returning the unit to the user, perform the following safety checks :

1. Inspect all lead dress to make certain that

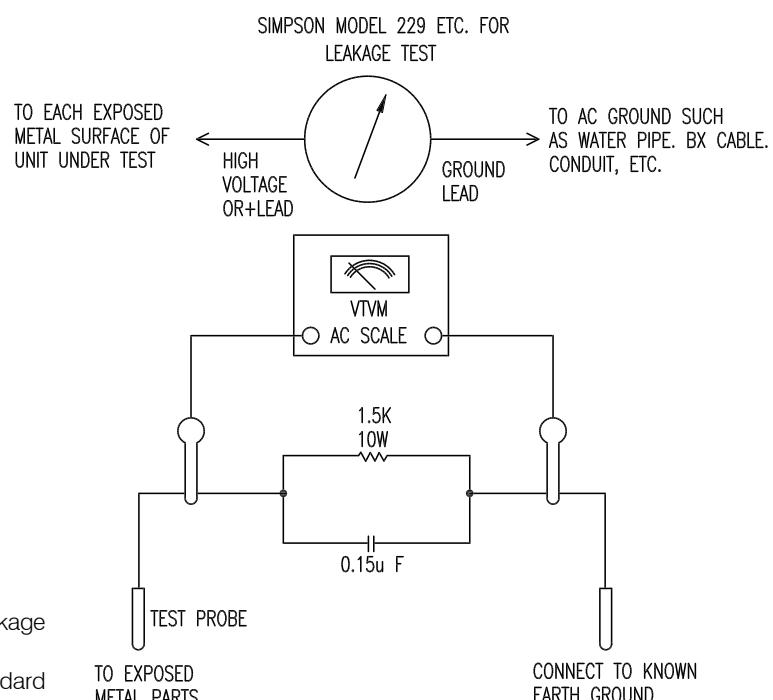
leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.

2. Be sure that any protective devices such as nonmetallic control knobs, insulating fish-papers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. Which were removed for the servicing are properly re-installed.

3. Be sure that no shock hazard exists ; check for leakage

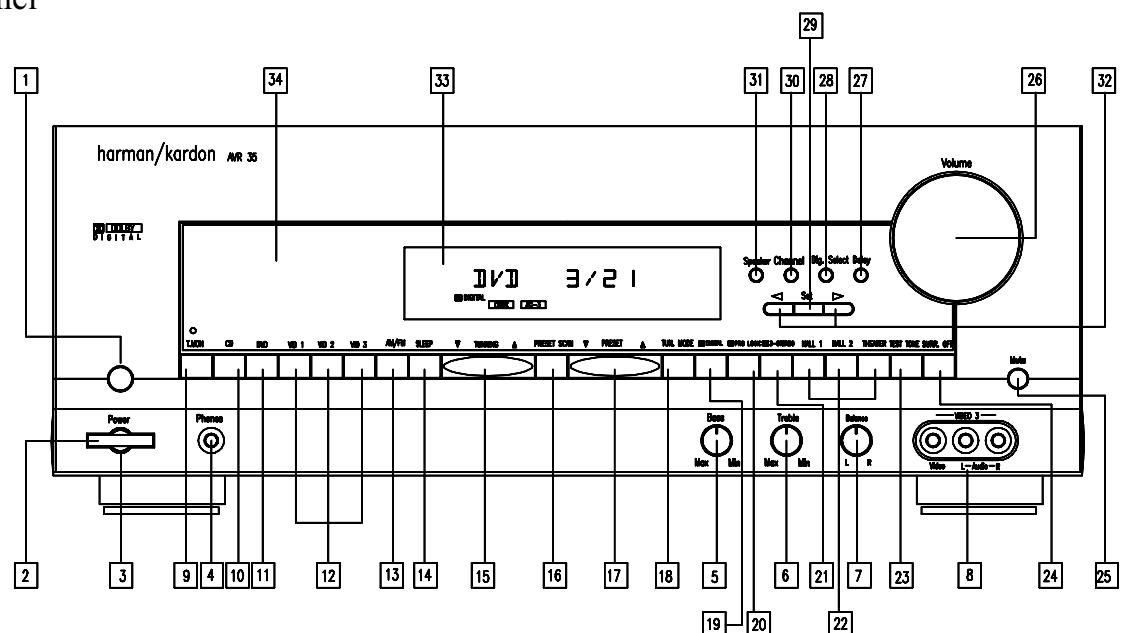
current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows : Plug the power cord directly into a 120 volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a

1500 ohms, 10watt Resistor paralleled by a 0.15uF capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See diagram) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



CONTROLS AND FUNCTIONS

Front Panel



1 Main Power Switch : Press this button to apply power to the AVR-35. When the switch is pressed in the unit is placed in a Standby mode, as indicated by the amber LED. This button MUST be pressed in to operate the unit. To turn the unit off and prevent the use of the remote control, this switch should be pressed until it pops out from the panel so that the word "OFF" may be read at the top of the switch.

NOTE : In normal operation this switch is left in the "ON" position.

2 System Power Control : When the Main Power Switch **1** is "ON", press this button to turn on the AVR-35 ; press it again to turn the unit off. Note that the Power Indicator surrounding the switch **3** will turn green when the unit is on.

3 Power Indicator : This LED will illuminate in amber when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn green.

4 Head Phone Jack : This jack may be used to listen to the AVR-35's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug.

5 Bass Control : Turn this control to modify the lower frequency output of the left / right channels by as much as +/-10dB. Set this control to a suitable position for your taste and room acoustics.

6 Treble Control : Turn this control to modify the high frequency output of the left / right channels by as much as +/-10dB. Set this control to a suitable position for your taste and room acoustics.

7 Balance Control : Turn this control to change the relative volume for the front left / right channels.

NOTE : For proper operation of the surround modes this control should be at the midpoint, or "12 o'clock" position.

8 Video 3 Inputs : These audio / video inputs may be used for temporary connection of video games, camcorder, digital still cameras or portable audio products. To select a source connected to these jacks, press the Video 3 Input Selector **12**.

9 T-Mon Selector : Press this button to select the device connected to the Tape Monitor jacks (20) as the listening source. The previously selected source will continue to show in the

information Display **33**, and the red LED above the button will illuminate to remind you that you are listening to the tape monitor..

10 CD : Press this button to select the device connected to the CD Input jacks (5) as the listening source.

11 DVD Input : Press this button to select the device connected to the DVD Input jacks (6) as the listening and viewing source.

12 Video Input Selectors : Press one of these buttons to select a source connected to the rear panel Audio/Video inputs (3), (14), or the front panel Audio/Video input **8**.

13 AM/FM : Press this button to select the tuner as the AVR-35's input source. When it is first pressed the last station tuned will be heard. Press it again to change between AM and FM bands.

14 Sleep Button : Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR35 will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order :

| |
|-------------------------------|
| → 90 → 80 → 70 → 60 → 50 → 40 |
| min min min min min min |
| ↳ 30 → 20 → 10 → 5 → 1 → OFF |
| min min min min min min |

15 Tuning button : Press the left side of the button to tune lower frequency station and the right side of the button to tune higher frequency stations. When a station with a strong signal is tuned, the TUNED indicator **F** will illuminate in the Information Display **33**. A brief(1/2 second) press of the button will manually tune to the next frequency increment, while pressing and holding the button for a long period will automatically tune to the next station with a signal strong enough for acceptable reception.

20 Dolby Pro Logic Selector : Press this button to select the Dolby Pro Logic surround mode when listening to an analog or digital(PCM) program that is encoded with surround-sound information.

21 Dolby 3 Stereo Selector : Press this button to select the Dolby 3 Stereo listening mode. This mode is used primarily when a program has surround information when a center channel speaker, but no surround speakers, is installed.

22 Surround Mode Selectors : Press one of these buttons to select the analog surround modes. These modes may be used with any analog program source to create a pleasing surround effect.

17 Preset Stations Selector : Press this button to select stations that have been entered into the preset memory.

18 TUN.MODE/RDS : Press this button to select the auto or mono mode for FM tuning. In the AUTO mode, AUTO indicator will illuminate in the information display, and when stations are transmitting stereo signals, the stereo reception will be provided and Stereo indicator will also be illuminated in the

information display. In the MONO mode the left and right signals from stereo broadcasts will be mixed together and reproduced through all channels. Select MONO for better reception of weak signals.

19 Dolby Digital Selector : Press this button to select the Dolby Digital surround mode when

listening to a program that carries the Dolby Digital surround mode when listening to a program that carries the Dolby Digital information.

27 Delay : Press this button to begin the sequence of steps required to enter delay time settings.

28 Digital Input Selector : When playing a source that has a digital output, press this button to select between the Optical (17) and Coaxial (16) Digital inputs.

29 Set Button : When making choices during the setup and configuration process, press this button to enter the desired setting, as shown in the information Display, into the AVR-35's memory.

30 Channel Selector : Press this button to begin the process of selecting and configuring the AVR-35's output channels.

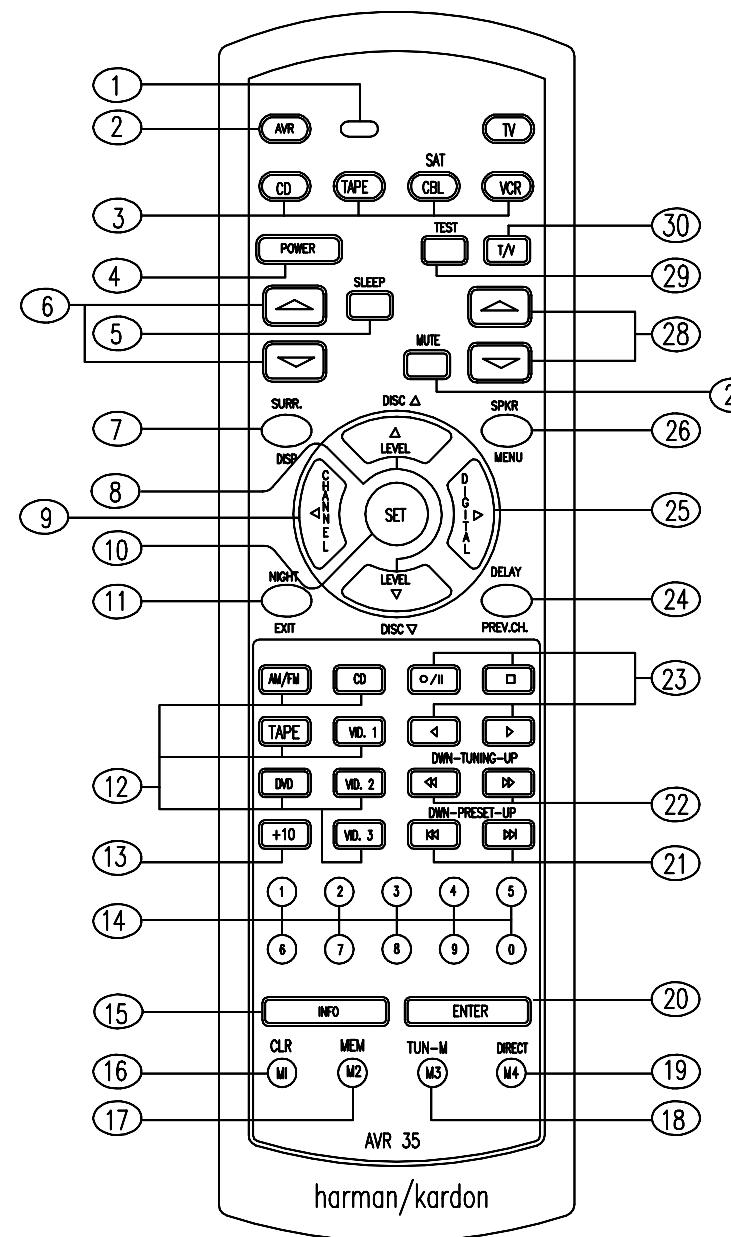
31 Speaker Selector Button : Press this button to begin the process of selecting the speaker positions that are used in your listening room.

32 Selector Buttons : When you are establishing the AVR-35's configuration settings, use these buttons to select between the choices available. as shown in the information Display **33**.

33 Information Display : This display delivers messages and status indications to help you operate the receiver.

34 Remote Sensor Window : The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed.

Remote Control



1 Program/Command Indicator : This LED is used as an indicator to assist in programming the AVR-35. Note that the button will briefly turn red after it has been pressed to confirm your selection.

2 AVR Selector : Press this button to use the remote control for operation of the AVR-65. Note that the button will briefly turn red after it has been pressed to confirm your selection.

3 Device Control Selectors : Press one of these buttons to use the remote to control the functions of another audio/video device. Note that the button will briefly turn red after it has

been pressed to confirm your selection.

4 Power Button : Press this button to turn the currently selected device on or off.

5 Sleep Button : Press this button to place the unit in the Sleep Mode. After the time shown in the display, the AVR-35 will automatically go into the standby mode. Each press of the button changes the time until turn-off in the following order:

| |
|---------------------------------|
| → 90 → 80 → 70 → 60 → 50 → 40 → |
| min min min min min min |
| → 30 → 20 → 10 → 5 → 1 → OFF |
| min min min min min min |

6 Channel ▲/▼ Buttons : When the remote

is being used to control a TV, VCR or Cable box.,press these button to change the channel being viewed.

7 Surround Mode Selector : Press this button to begin the process of changing the surround mode. After the button has been pressed, use the ▲/▼ button **8** to select the desired surround mode.

8 ▲/▼ Buttons : These are multi-purpose buttons. They will be used most frequently to select a surround mode. To change the surround mode, first press the SURR button **7**. Next press these buttons to scroll up or down through the list of surround modes that appear in the Information Display **33**. These buttons are also used to increase or decrease output levels used to lower the AVR35's output levels when configuring the unit with either the internal test tone or an external source. They are also used to enter delay time settings after the Delay button on **24** has been pressed.

9 ◀/▶ Channel Button : This button is used to start the process of setting the AVR-35's output levels to an external source. Once this button is pressed, use the ▲/▼ buttons **8** to select the channel being adjusted, then press the Set button **10**, followed by the ▲/▼ buttons again to change the level setting.

10 Set Button : This button is used to enter settings into the AVR-35's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment.

11 Night Mode : Press this button to activate the "Night" mode, preventing loud playback when the digital modes are in use without altering the dynamic range of the output signal.

When the AVR-35 remote is being programmed to operate other devices, this button is pressed to begin a readout of a programmed code.

12 Source Selectors : Press these buttons to select an input source for the AVR-35. The AM/FM button is also used to switch between frequency bands when the tuner in use.

NOTE : Pressing one of these buttons selects the source only. In order to control the actual source machine using the remote you must press the **Press Control Selector** button **2** for the desired product.

13 +10 Button : This button does not have a function for the AVR35, but when the remote is used to control certain CD players, TV sets and VCRs it may be used to select tracks or channel numbers.

14 Numeric Keys : These buttons serve as a ten-button numeric key-pad to enter tuner preset positions. They are also to be used to select channel numbers when TV has been selected on the remote, or to select track numbers on a CD, DVD or LD player, depending on how the remote has been programmed.

NOTE : The 0 button has a dual function. It also serves as the **CLEAR** button for use in programming the tuner or clearing the system memory.

15 Info Button : This button dose not function with the AVR-35, but it is available for use with other devices.

16 Clear Button : This button dose not function with the AVR-65, but it is available for use with other devices.

17 Memory Button : Press this button to enter a radio station into the AVR-35's preset memory. After pressing the button the **MEMORY** indicator **N** will flash, and you then have five seconds to enter a present memory location using the Numeric Keys **14**.

NOTE : Although the word "Sleep" appears above this button, it refers to control of devices other than the AVR-35. Use the **Sleep** button **5** to control the AVR-35's Sleep function.

18 Tuner Mode : Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that the **AUTO** indicator **O** goes out, pressing the **Tuning** buttons **18** will move the

frequency up or down in single-step increments. When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception, as indicated by the **MONO** indicator **C**.

19 Direct/Enter : Press this button to select a radio station by entering its frequency using the Numeric Key **14**.

20 Enter : This button does not function with the AVR35, but it is available for use with other devices.

21 Preset Up/Down : When the tuner is in use, these buttons scroll through the stations that have been programmed into the AVR-35's memory. When many source devices, such as CD players, VCRs and cassette decks, are selected using the **Device Control Selectors**

3, these buttons will normally function as chapter step or track advance.

22 Tuning Up/Down : When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the **Tuner Mode** button **18** has been pressed so that the

AUTO indicator **O** is illuminated, pressing these buttons will cause the tuner to seek the next station with acceptable signal strength for quality reception. When the **AUTO** indicator **O** is NOT illuminated, pressing these buttons will tune stations in single-step increments.

23 Transport Control : These controls do not control any function of the AVR-35, but they are used extensively when operating a wide variety of CD players, cassette decks and VCRs.

24 Delay/Prev Ch. : Press this button to begin the process for setting the delay times used by the AVR-35 when processing surround sound. After pressing this button the delay times are entered by pressing the **Set** button **10**, and then using ▲/▼ buttons **8** to change the setting. Press the **Set** button again to complete the process.

25 ◀/▶ Digital Button : This button is used to select the type of digital input used with any one

of the input sources connected to the AVR-35. After pressing this button, use the ▲/▼ buttons **7** to make your selection between **OPTICAL E** or **COAXIAL G** digital. Press the **Set** button **10** to enter your choice.

26 Speaker Configuration : Press this button to begin the process of configuring the AVR-35's Bass Management System for use with the type of speaker used in your system.

Once the button has been pressed, use the ▲/▼ buttons **8** to select the channel you wish to set up. Press the **Set** button **10**, and then select another channel to configure. When all adjustments have been completed, press the **Set** button twice to exit the settings and return to normal operation.

27 Mute : Press this button to momentarily silence the AVR35 or TV set being controlled, depending on which device has been selected.

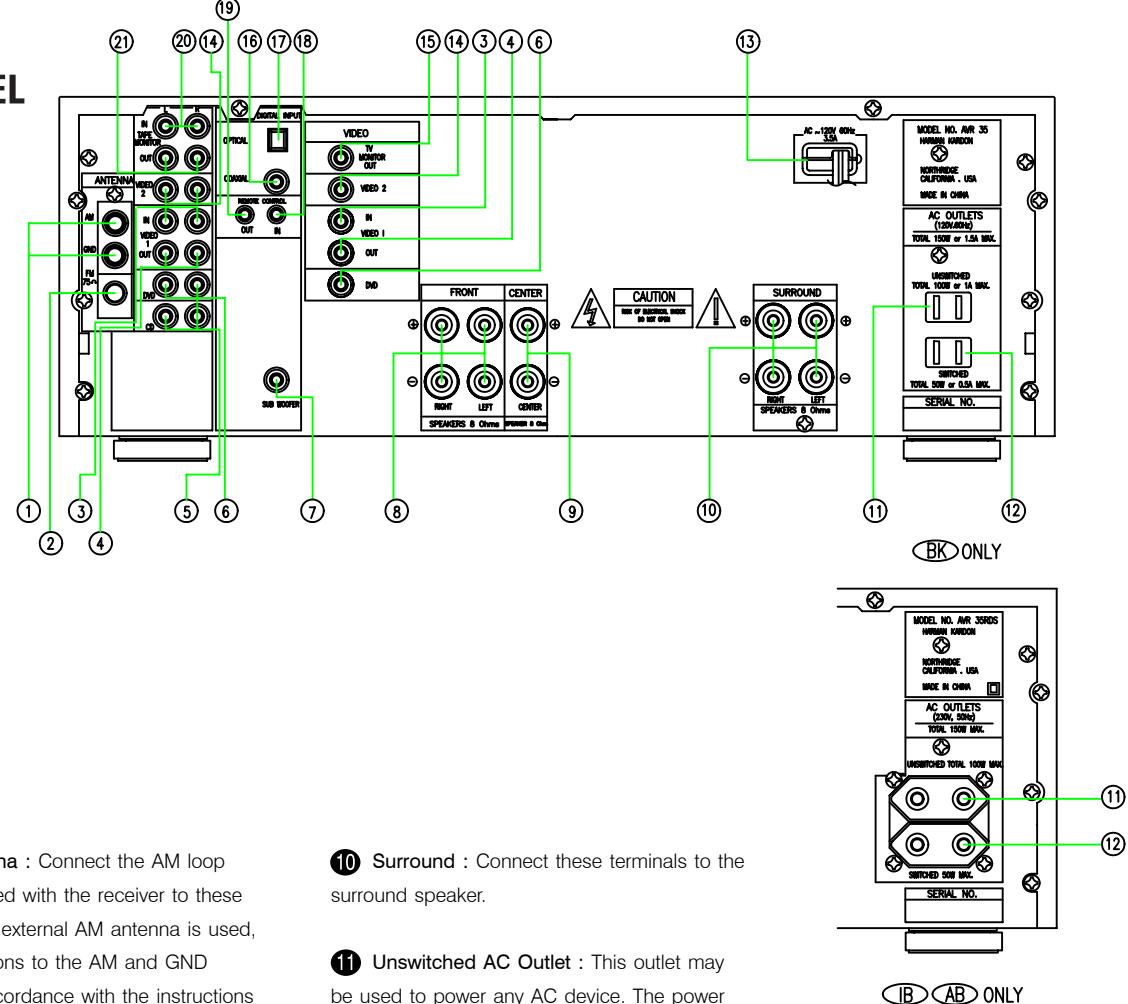
When the AVR35 remote is being programmed to operate another device, this button is pressed with the **Device Control Selector** button **3** to begin the programming process.

28 Volume : Press these buttons to raise or lower the system volume.

29 Test : Press this button to begin the sequence used to calibrate the AVR-35's output levels.

30 TV/VCR : This button does not function with the AVR35, but it is available for use with other devices.

REAR PANEL



1 AM Antenna : Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with antenna.

2 FM Antenna : Connect an indoor or external FM antenna to this terminal.

3 Video 1 Inputs : Connect these jacks to the audio and video PLAY/OUT jacks of a VCR.

4 Video Outputs 1: Connect these jacks to the audio and video RECORD INPUT jacks of a VCR.

5 CD Inputs : Connect these jacks to the output of a compact disc player or CD changer.

6 DVD Inputs : Connect the analog audio outputs and composite video output of a DVD or LD player to these jacks.

7 Subwoofer Pre-Out : Connect this jack to the line level input to a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input.

8 Front : Connect these terminals to the front left/right speakers.

9 Center : Connect these terminals to the center speaker.

10 Surround : Connect these terminals to the surround speaker.

11 Unswitched AC Outlet : This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR-35 is on or not.

NOTE : The power consumption of the device plugged into each of these outlets should not exceed 100 watts.

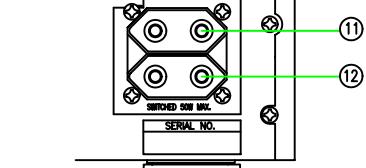
12 Switched AC Outlet : This outlet may be used to power any device that you wish to turn on when the unit is turned on with the System Power Control switch. **2**

13 Power Cable : Connect the AC plug to non-switched AC wall output.

14 Video 2 Inputs : Connect these jacks to the audio and video outputs of a TV Tuner, Cable TV converter box, satellite receiver or any other audio/video source.

15 TV Monitor Video Output : Connect this jack to the standard(composite) video input of a TV monitor or video projector to view the on-screen menus and the output of any standards video source selected by the receiver's video switcher.

16 AC-3/PCM Coaxial Input : Connect the coax digital output from a DVD player to this jack. The signal may be either a Dolby



Digital(AC-3) signal or a standard PCM digital source.

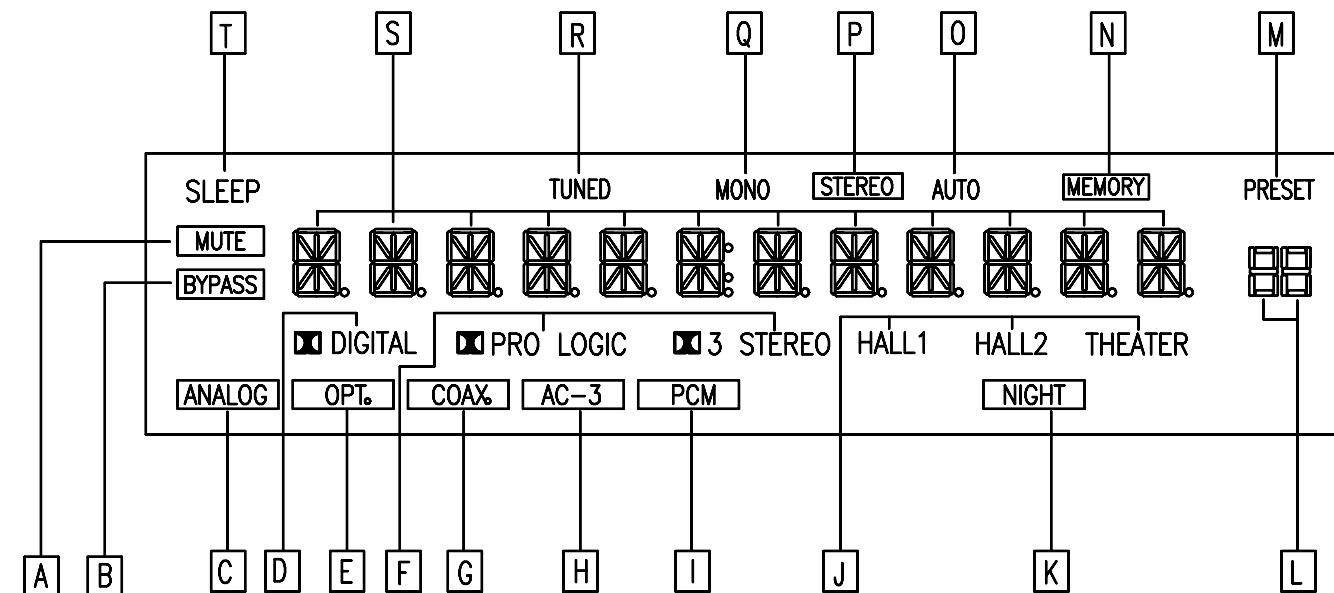
17 AC-3/PCM Optical Input : Connect the optical digital output from a DVD player, HDTV receiver, LD player or CD player to this jack. The signal may be either a Dolby Digital (AC-3) signal or a standard PCM digital source.

18 Remote IR In : If the AVR-35's front panel IR sensor is blocked due to cabinet door or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack.

19 Remote IR Out : This connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment.

20 Tape Monitor In : Connect these jacks to the PLAY/OUT jacks of an audio recorder.

21 Tape Monitor Out : Connect these jacks to the RECORD / INPUT jacks of an audio recorder.



A Mute : This indicator illuminates to remind you that the AVR 35's output has been silenced by pressing the Mute button **25**.

Press the Mute button again to return to the previously selected output level.

B Bypass : This indicator illuminates when the surround processing has been disabled by pressing Surround Off button **24**. When this indicator is lit, the AVR-35 will play transitional stereo sound using the front left and right speakers only.

C Analog : This indicator illuminates when an analog input source is in use.

D Dolby Digital Indicator : This indicator illuminates when a Dolby Digital source is being played.

E OPT. : This indicator illuminates when a digital source is in use via a connection to the Optical Digital input. **17**

F Dolby Pro-Logic Surround Mode Indicators : These indicators illuminate when one of the analog (matrix) or Digital(PCM) Dolby Surround modes is in use.

G COAX.Source : This indicator illuminates when a digital source is in use via a connection to the Coaxial Digital input. **16**

H AC-3 Indicator : This indicator illuminates when a AVR-35 is decoding a Dolby Digital input source.

I PCM Indicator : This indicator illuminates to show that a standard PCM(SP/DIF) digital audio signal is being decoded by the digital-to-analog converter.

J Surround Mode Indicators : These indicators illuminate when one of the DSP generated analog surround modes is in use with an analog input source.

K Night Indicator : This indicator lights when the AVR-35 is in the Night mode, which prevents the AVR-35 from loud playback when digital sources are in use.

L Preset Number : This two-digit display indicates the station preset number that is currently in use, or of that is being entered.

M Preset Indicator : This indicator illuminates when one of the stations entered into the preset memory is tuned. The number that appears below the indicator is the preset station's memory.

N Memory : This indicator flashes when entering presets and other information into the tuner's memory.

O Auto : This indicator illuminates when the "Auto" mode is in use for FM tuning.

P Stereo Indicator : This indicator illuminates when an FM station is being tuned in stereo.

Q Mono Indicator : This indicator illuminates when the tuner has been placed in the monaural mode by pressing the FM Mode button **18**. Set the tuner for mono listening to cut noise and improve the quality of distant stereo signals.

R Tuned Indicator : This indicator illuminates when a station is being received with sufficient signal strength to allow for acceptable listening quality.

S Main Information Display : This display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of unit's operation.

T Sleep Indicator : This indicator is illuminated when the Sleep function is in use. The number that appears above the indicator is the number of minutes remaining before the AVR-35 will return to the Standby mode.

SERVICE PROCEDURE

1. All Clear

This service program can clear all memorized operations and functions.

When the POWER ON, press the "AM/FM" button while pressing the "PRO LOGIC" button.

After this, Preset memory will be set to these frequencies.

| | VERSION | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|----|------------|-------|-------|-------|-------|-------|-------|--------|--------|
| FM | 120 | 87.5 | 88.0 | 90.0 | 95.0 | 98.0 | 99.0 | 106.0 | 108.0 |
| | 230,230RDS | 87.50 | 88.00 | 90.00 | 95.00 | 98.00 | 99.00 | 106.00 | 108.00 |
| | VERSION | P9 | P10 | P11 | P12 | P13 | P14 | P15 | |
| AM | 120 | 520 | 600 | 610 | 1000 | 1400 | 1500 | 1710 | |
| | 230,230RDS | 522 | 594 | 999 | 1395 | 1611 | | | |

2. VFD segment illumination & text

This service procedure will illuminate all segments by the following steps

(1) Press the Power ON button(Push Knob) while you are holding the TEST TONE (dts) button.

(2) Then "TEST MODE" character will be shown on VFD Display.

(3) This set do not have Auto VFD segment check function. So For your checking the VFD states according to each function, Please press any function button which you want to test.

(4) for example : Tape monitor & CD

1) Press the POWER ON button(push knob) while you are holding the TEST TONE (dts) button.

2) Then "TEST MODE" character will be shown on VFD Display.

3) Press the t.MON button on Front, then you are able to see "TAPE MONITOR" Character on VFD Display.

4) Press the CD button on FRont, then you are able to see "CD" Character on VFD Display.

| BUTTON | SEGMENT(Large) | SEGMENT(Small) |
|----------------|----------------|---|
| ST. POWER | POWER | |
| T. MON | TAPE MONITOR | |
| CD | CD | |
| DVD | DVD | |
| VID 1 | VIDEO 1 | |
| VID 2 | VIDEO 2 | |
| VID 3 | VIDEO 3 | |
| AM/FM | TUNER | TUNED, MONO, STEREO, AUTO, MEMORY, PRESET, 88 |
| SLEEP | SLEEP | |
| ▼ TUNING | TUNING DOWN | |
| TUNING ▲ | TUNING UP | |
| PRESET SCAN | PRESET SCAN | |
| ▼ PRESET | PRESET DOWN | |
| PRESET ▲ | PRESET UP | |
| TUN. MODE(RDS) | NO RDS | RDS, PTY, CT, RT |
| DIGITAL | DOLBY AC-3 | DIGITAL, AC-3, NIGHT |
| PRO LOGIC | PRO LOGIC | PRO LOGIC, PCM |
| 3 STEREO | 3 STEREO | 3-STEREO |
| HALL 1 | HALL 1 | HALL 1 |
| HALL 2 | HALL 2 | HALL 2 |
| THEATER | THEATER | THEATER |
| TEST TONE | TEST TONE | |
| SURR. OFF | SURR OFF | |
| SPEAKER | FRNT SPEAKER | |
| CHANNEL | FRONT L LEV | |
| DIG. SELECT | COAXIAL | ANALOG, OPT, COAX |
| DELAY | S DELAY TIME | |
| MUTE | MUTE | MUTE |
| VOLUME UP | VOLUME UP | |
| VOLUME DOWN | VOLUME DOWN | |
| SET | SET | |
| ◀ | COMM DOWN | |
| ▶ | COMM UP | |

TEST EQUIPMENT REQUIRED

1) AM/FM Signal generator

2) Digital Multimeter

3) Distortion lever meter

ALIGNMENT PROCEDURES

1. FM MONO. Distortion adjustment

| step | Input Signal Source Connection | Signal Frequency | Source Signal Output Level and Modulation | Reception Frequency | Adjustment Point | Adjustment Value |
|------|--|------------------|--|---------------------|------------------|--------------------------------------|
| 1 | Signal generator output to FM antenna terminal.(750hm) | 98MHz | 1000uV/m (60dBu) MONO 1kHz/ Dev. 75kHz | 98MHz (P5) | T804 | 0mV±0.5mV (R831) |
| | | | | | T805 | Distortion level Minimum at TAPE-OUT |

2. FM MUTING LEVEL ADJUSTMENT

Turn variable resistor VR801 and stop at position "TUNED" is not shown (not indicated), then again turn the variable resistor VR801 to the opposite revolution and stop at a position "TUNED" is shown.

| step | Input Signal Source Connection | Signal Frequency | Source Signal Output Level and Modulation | Reception Frequency | Adjustment Point | Adjustment Value |
|------|--|------------------|--|---------------------|------------------|--------------------------------------|
| 1 | Signal generator output to FM antenna terminal.(750hm) | 98MHz | 10uV/m (20dBu) MONO 1kHz/ Dev. 75kHz | 98MHz (P5) | VR801 | "TUNED" indicate on VFD |
| | | | | | AUTO SCAN | Only confirm "TUNED" indicate on VFD |

3. FM STEREO Separation Adjustment

| step | Input Signal Source Connection | Signal Frequency | Source Signal Output Level and Modulation | Reception Frequency | Adjustment Point | Adjustment Value |
|------|--|------------------|--|---------------------|------------------|--|
| 1 | Signal generator output to FM antenna terminal.(750hm) | 98MHz | same specification as FM STEREO distortion adjustment. Input only L channel | 98MHz (P5) | VR803 | Output level Minimum at TAPE-OUT channel R |
| | | | | | VR803 | Output level Minimum at TAPE-OUT channel L |

4. AM OSC Adjustment

| step | Input Signal Source Connection | Signal Frequency | Source Signal Output Level and Modulation | Reception Frequency | Adjustment Point | Adjustment Value |
|------|--|------------------------------------|---|---|------------------|------------------|
| 1 | Signal Generator output to transmission loop antenna (:standard required loop) | 522kHz (230,230RDS) 520kHz(120) | 5mV/m(74dBu) 400Hz MOD.30% | 522kHz (230,230RDS) 520kHz (120) (P9) | T802 | 1.1V~1.2V |

5. AM-Tracking Adjustment (MW)

| step | Input Signal Source Connection | Signal Frequency | Source Signal Output Level and Modulation | Reception Frequency | Adjustment Point | Adjustment Value |
|------|--|--------------------------------------|---|------------------------------------|------------------|---|
| 1 | Signal Generator output to transmission loop antenna (:standard required loop) | 594kHz (230,230RDS) 600kHz(120) | 5mV/m(74dBu) 400Hz MOD.30% | 594kHz (230,230RDS) 600kHz(120) | T801 | Output level(L or R) Minimum at TAPE-OUT |
| 2 | | 1395kHz (230,230RDS) 1400kHz(120) | | | CT801 | Output level(L or R) Minimum at TAPE-OUT |

6. AM IF Adjustment

| step | Input Signal Source Connection | Signal Frequency | Source Signal Output Level and Modulation | Reception Frequency | Adjustment Point | Adjustment Value |
|------|--|-------------------------------------|---|--------------------------------------|------------------|--|
| 1 | Signal Generator output to transmission loop antenna (:standard required loop) | 999kHz (230,230RDS) 1000kHz(120) | 5mV/m(74dBu) 400Hz MOD.30% | 999kHz (230,230RDS) 1000kHz (120) | T803 | Output level(L or R) Maximum at TAPE-OUT Output level(L or R) Maximum at TAPE-OUT |

7. AM auto stop Adjustment

| step | Input Signal Source Connection | Signal Frequency | Source Signal Output Level and Modulation | Reception Frequency | Adjustment Point | Adjustment Value |
|------|---|--------------------------------------|---|-------------------------------------|------------------|----------------------------|
| 1 | Signal Generator output to transmission loop antenna (standard required loop) | 999kHz (230,230RDS) 1000kHz (120) | 1000uV/m(60dBu) 400Hz MOD.30% | 999kHz (230,230RDS) 1000kHz(120) | VR802 | "TUNED" indicate on VFD |
| 2 | | | | AUTO SCAN | Only Contirm | "TUNED" indicate on VFD |

8. Main Amp Idling current Adjustment

1) Alignment condition

(1) Adjust each of the variable resistors below in both the main and surround boards to the center position :

MAIN AMP BOARD : VR401, VR402, VR501

SURROUND AMP BOARD : VR601, VR602

2) Warming up system

After he above adjustment, turn the power ON and let the receiver warm up for 5 minutes to achieve a stable temperature for the driver and power transistors.

3) Measurement condition

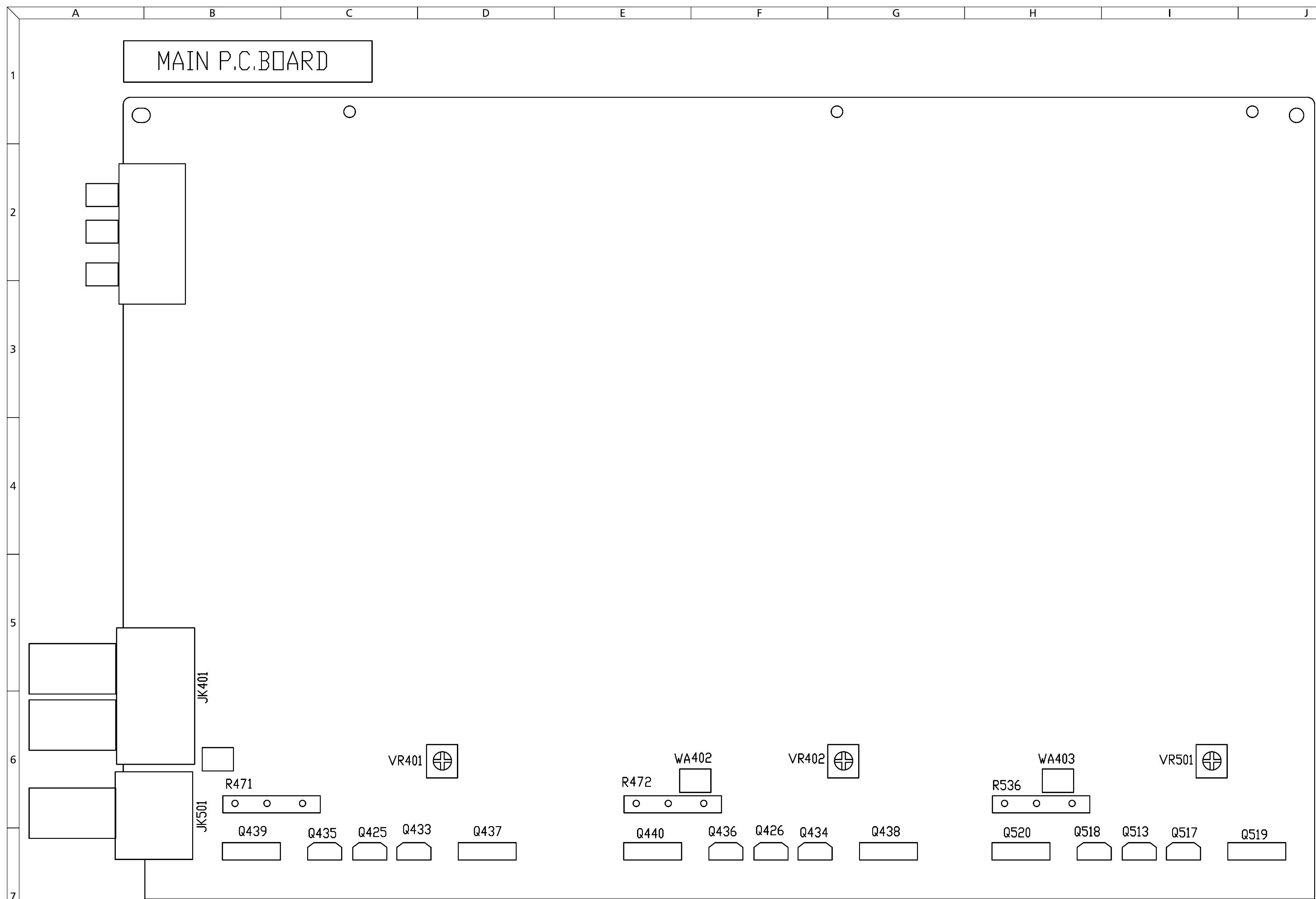
Adjust each variable resistor listed below clockwise for each channel, and adjust refer the following table for the details.

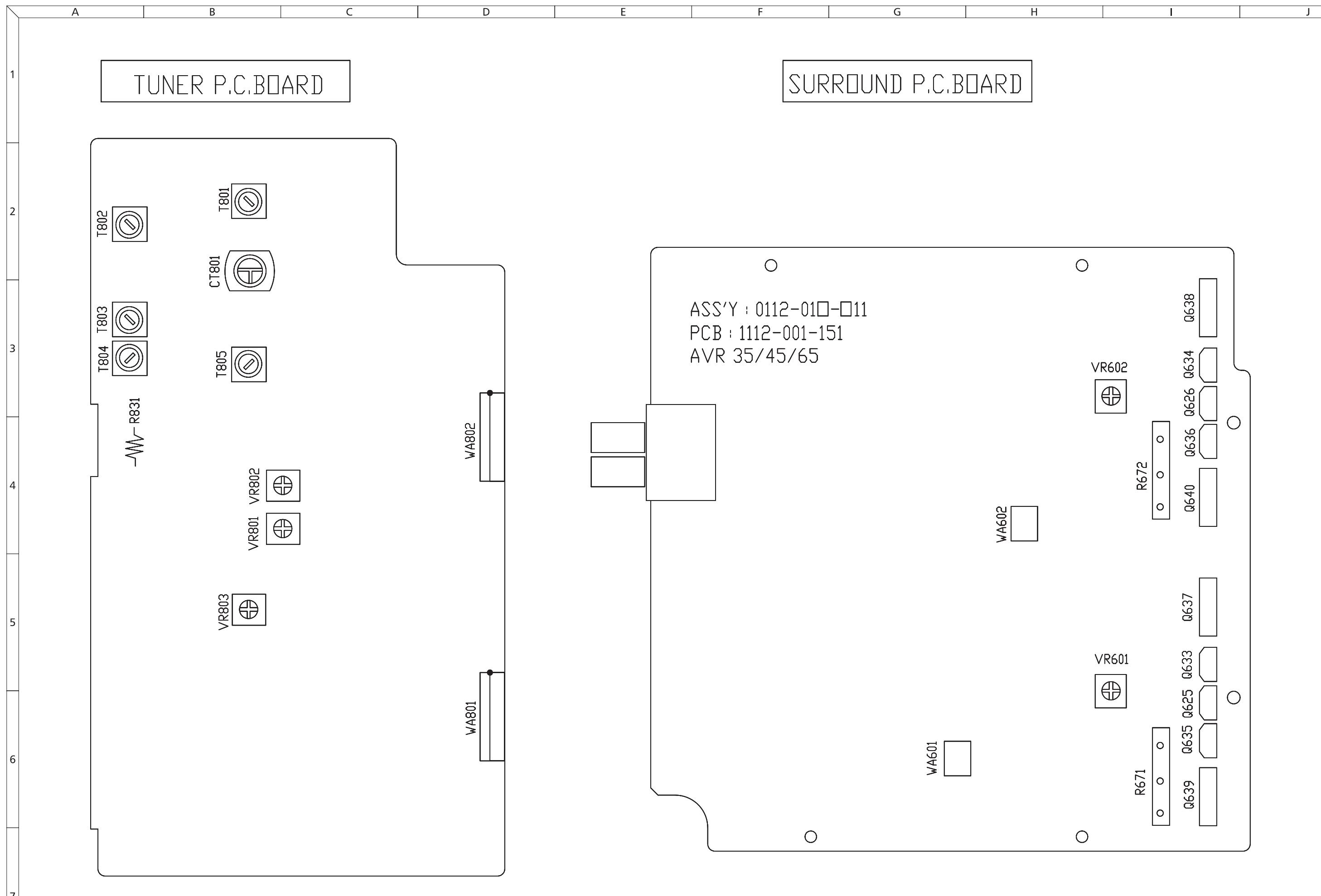
| CHANNEL | ADJUSTING LOCATION | MEASURE LOC. | VOL. DROP |
|---------|--------------------|--------------|-----------|
| FRONT-L | VR401 | R471 | 15mV±3mV |
| FRONT-R | VR402 | R472 | 15mV±3mV |
| CENTER | VR501 | R536 | 15mV±3mV |
| SURR-L | VR601 | R671 | 15mV±3mV |
| SURR-R | VR602 | R672 | 15mV±3mV |

4) CAUTION

(1) whenever power or driver transistors are changed, after repair you must re-adjust the idle current for repair, have to re-adjust that idle current again.

(2) Discharge each large elec. Capacitor C481, and C482(8200u) on main amp board, and C691, C692(6800uF/50V) on surround amp board.





CIRCUIT DESCRIPTION

1. SURROUND CIRCUIT

This model incorporates a surround processor circuit that provides 6 types of the surround sound and level trim and Bass management Fig-1 is a block diagram of the surround processor circuit.
The microprocessor transfers the data to the parameter control (int-req. serial data, Serial clock, Chip selector) to operate the circuits in each mode.

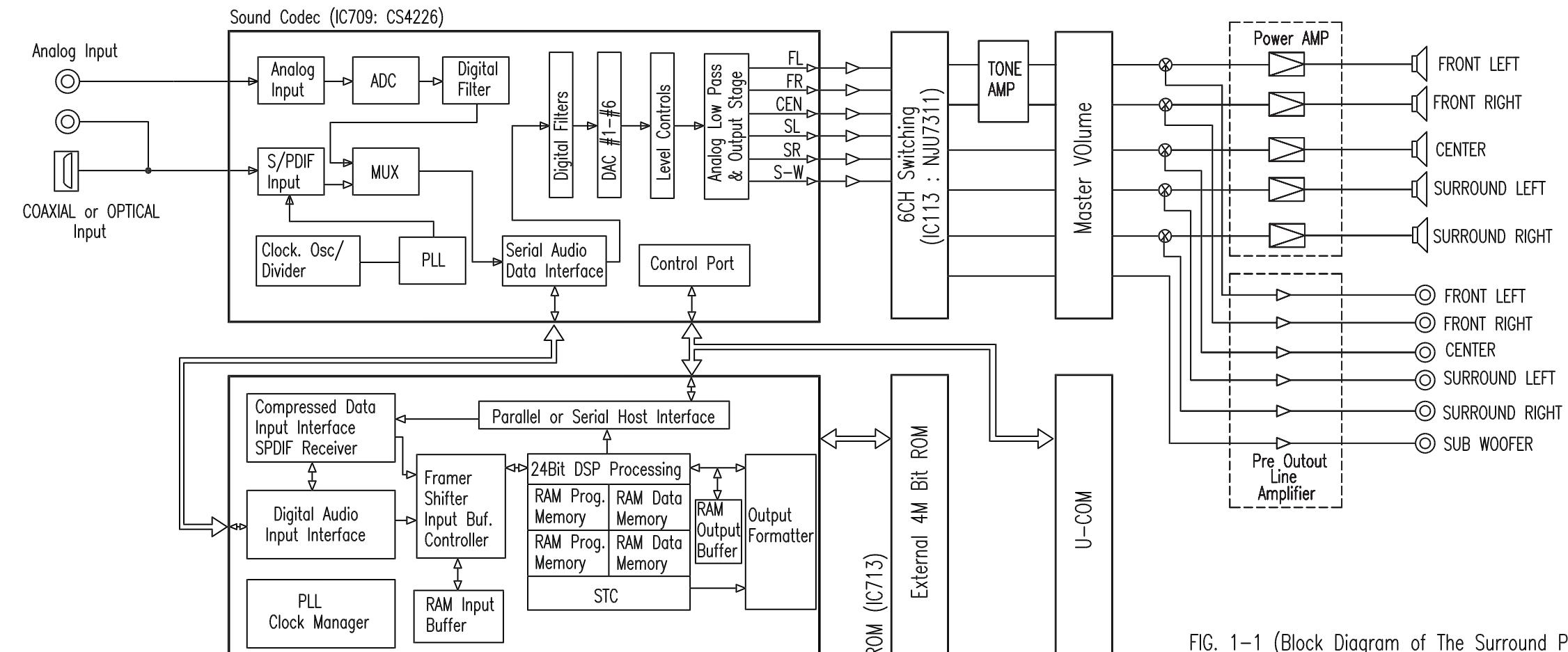


FIG. 1-1 (Block Diagram of The Surround Processor circuit)

2. DOLBY DIGITAL (AC-3)

Fig. 1-2 is a function block diagram of the application code when configured for Dolby Digital.
It gives an idea of the interaction between the various application modules when AC3 is enabled

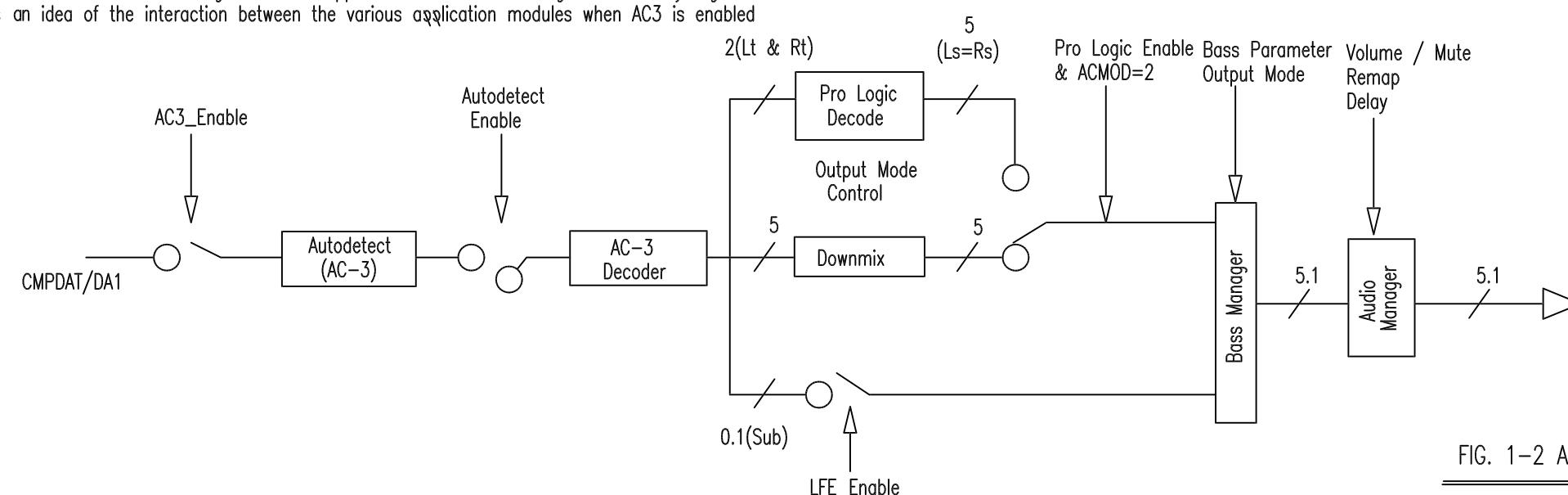


FIG. 1-2 AC3 Code Configured for AC3

3. PCM Input (Dolby Pro-Logic , Dolby 3 Stereo)

Fig 1-3 is a function block diagram of the application code when configured for PCM pass-through. It gives an idea of the interaction between the various application modules when PCM is enabled.

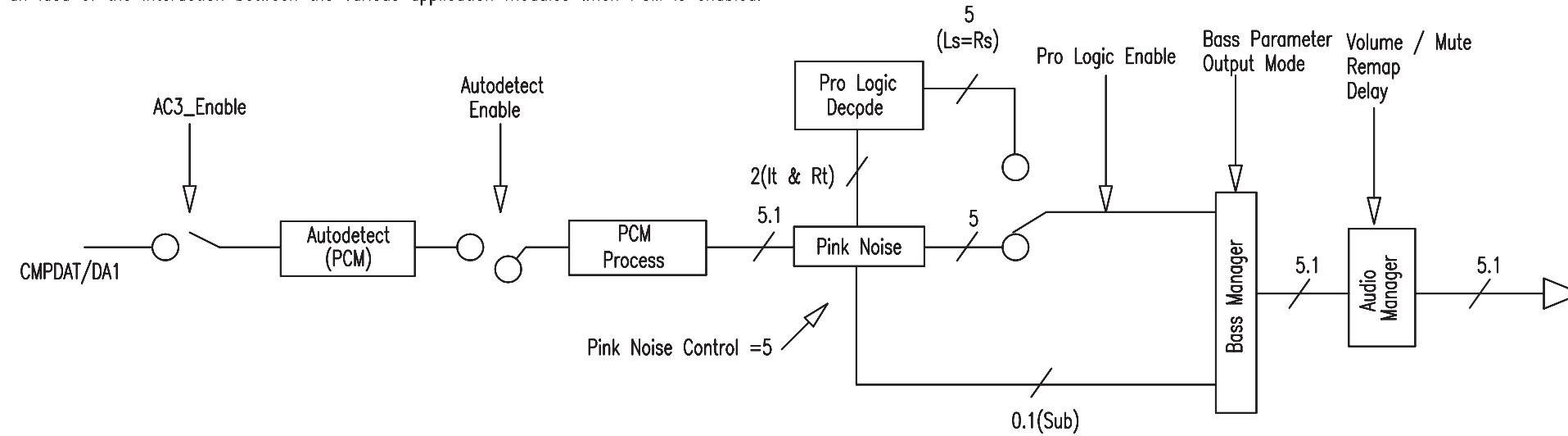


Fig 1-3 AC3 Code Configured for PCM

4. Sound Field Effect (Hall1, Hall2, Hall3)

Fig 1–4 is a function block diagram of the application when configured for Effects processing. It gives an idea of the interaction between the various application modules when the effects are enabled.

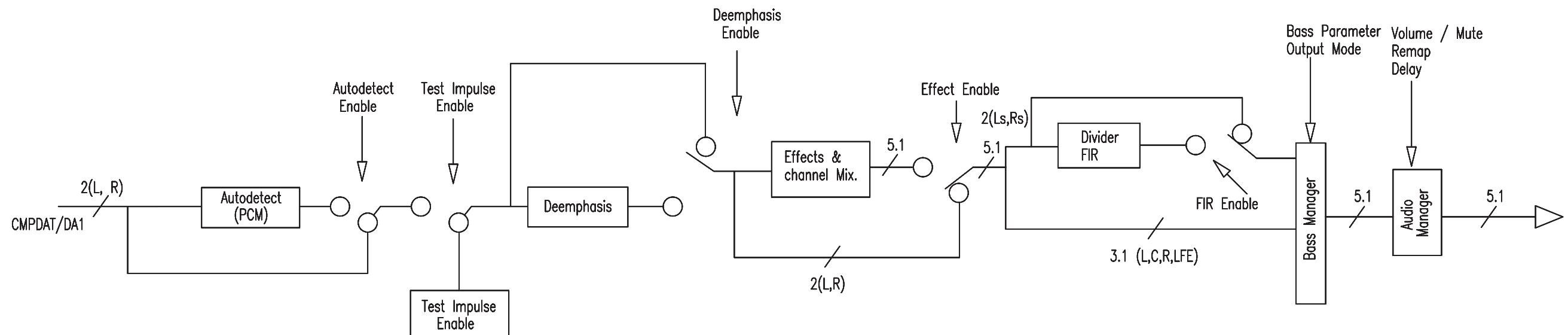


Fig 1-4 Effects Code Block Diagram

A | B | C | D | E | F | G | H | I | J

5. Bass Management

The Bass Manager is best described with the use of a block diagram.

The default 3dB frequency for this filter is 100Hz.

Fig 1-5 shows the topology of the filters cascaded to implement a second order filter.

Depending on the coefficient values, either a second order low pass or second order high pass can be implemented.

The corner frequency can be changed by downloading new values for the coefficients a_1 , b_0 and b_1 .

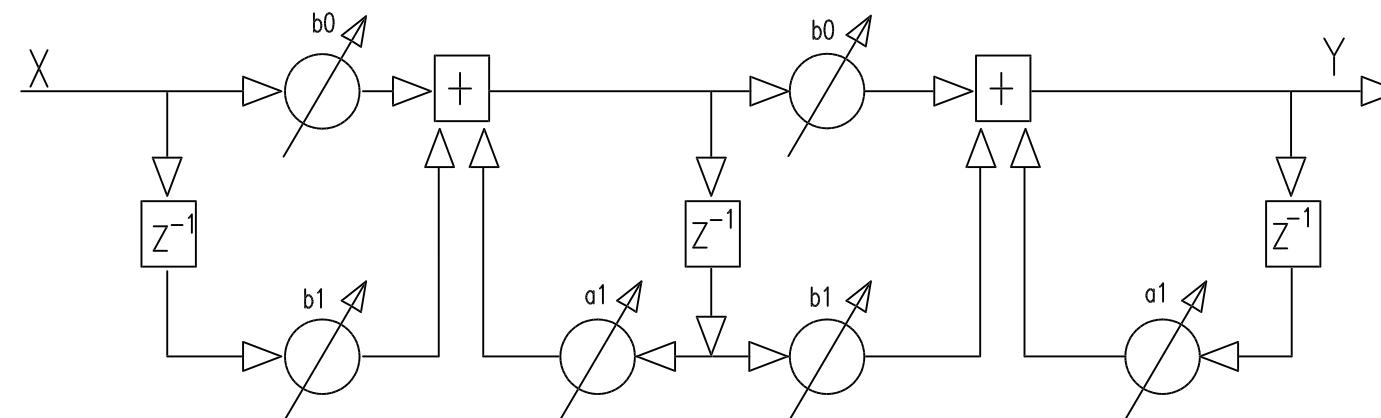


Fig 1-6 Filter Topology

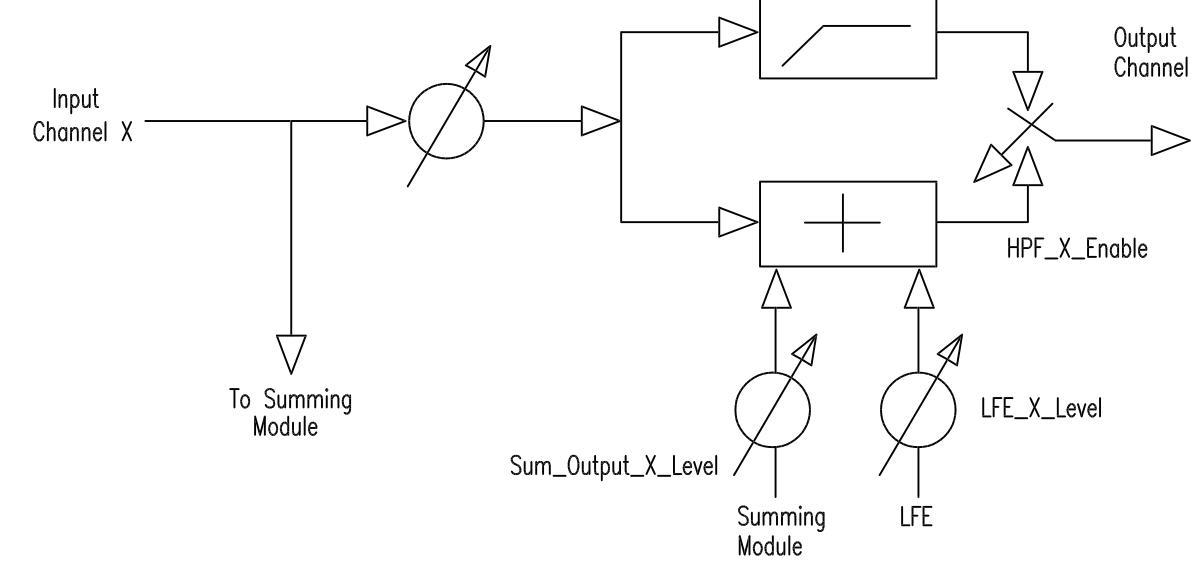


Fig 1-7 Bass manager Processing Unit

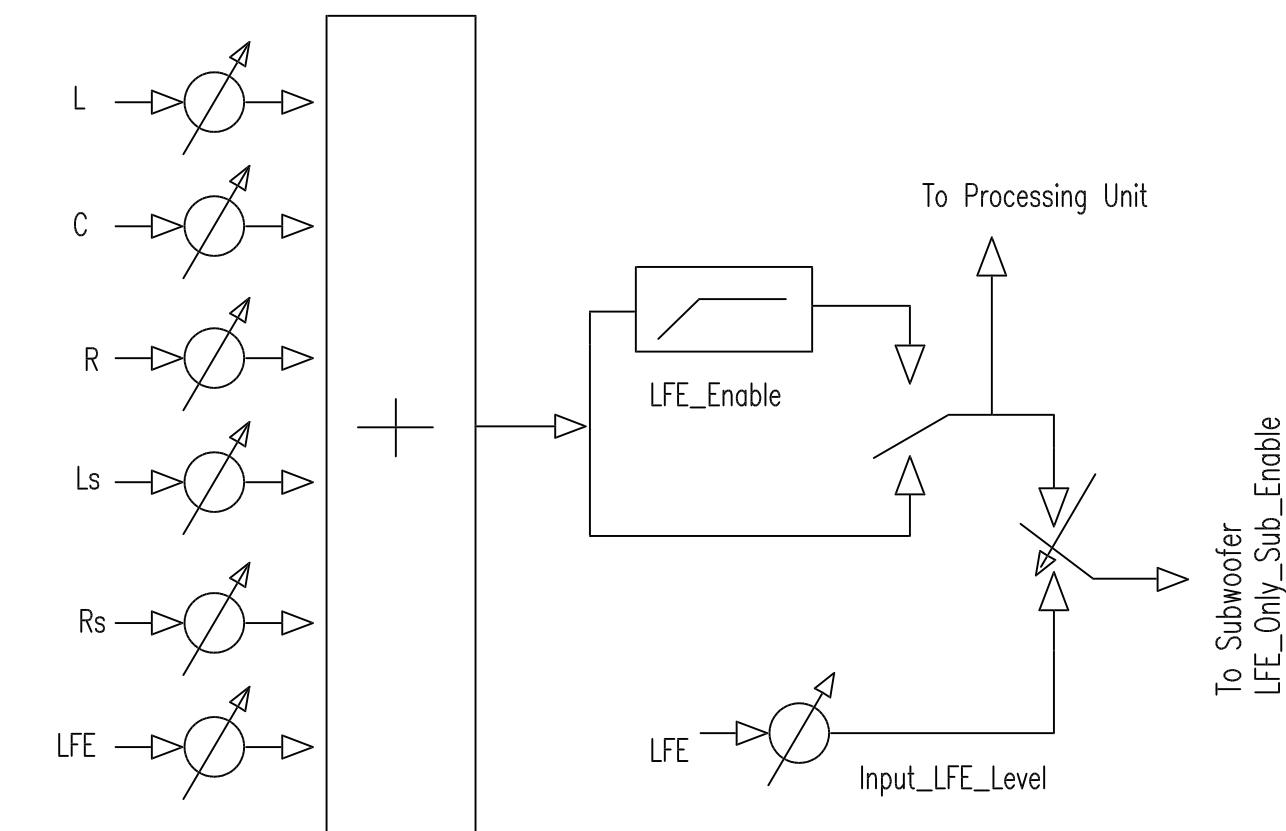
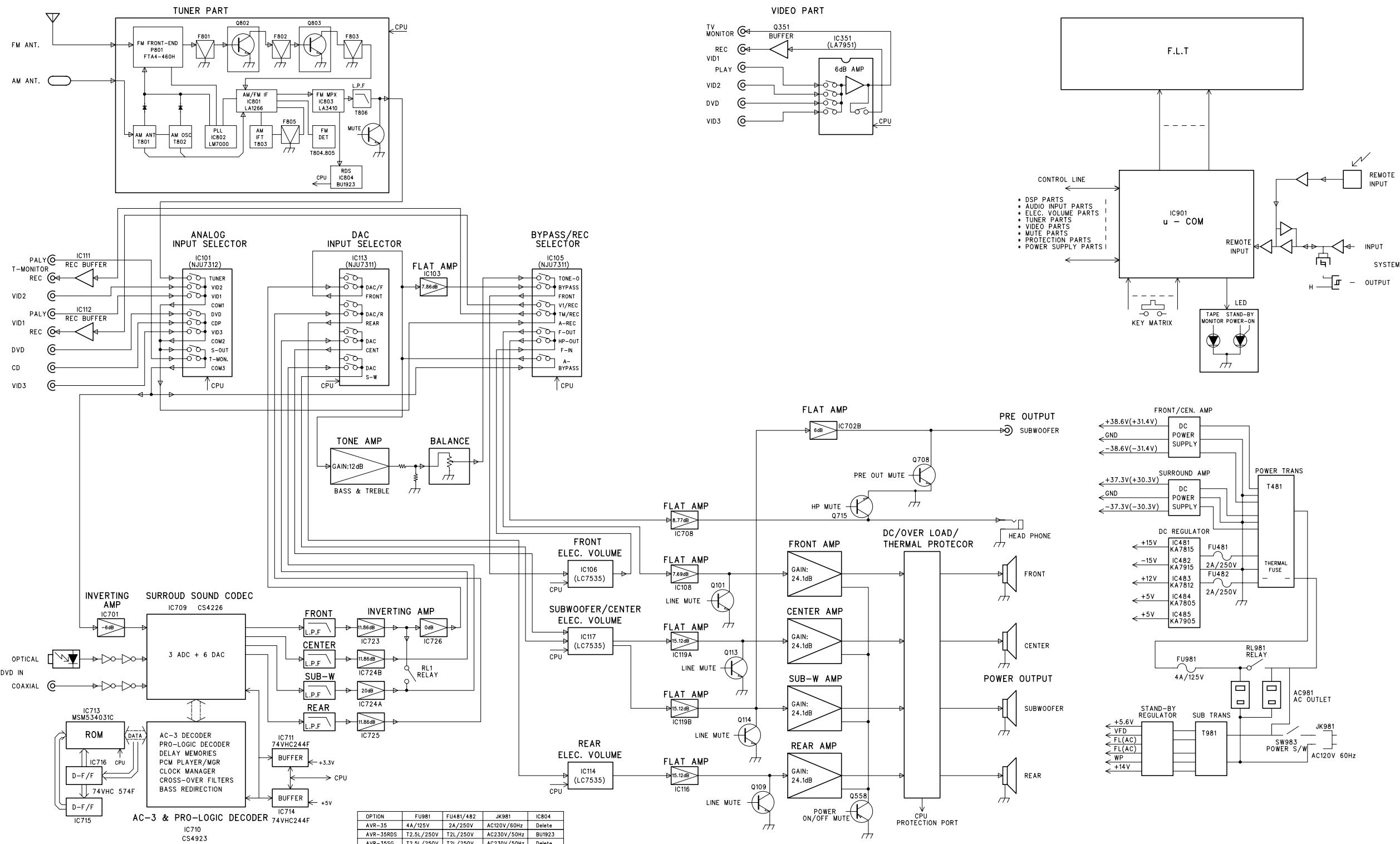


Fig 1-7 Bass manager Processing Unit

A B C D E F G H I J

1

AVR-35/35RDS/35SG BLOCK DIAGRAM

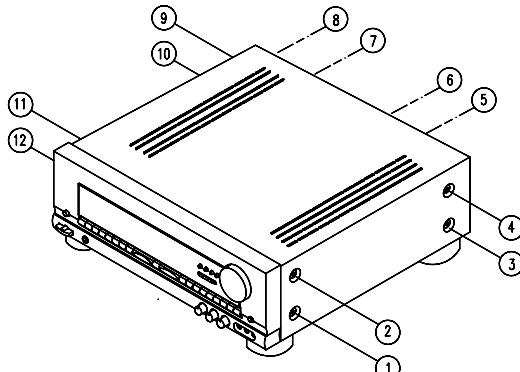


7

DISASSEMBLY PROCEDURE

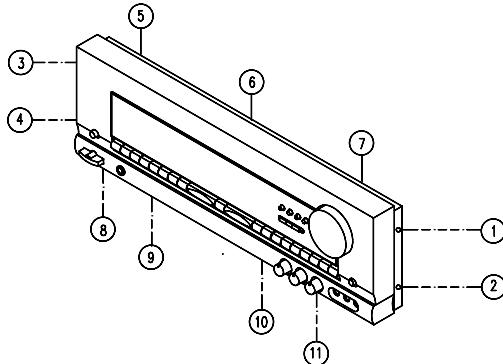
1. Removing the top cover, and

Remove screws ① ~ ⑫



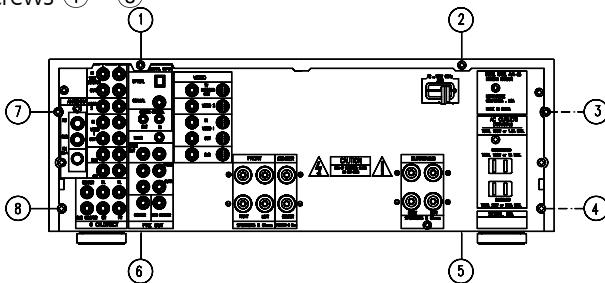
2. Removing the front panel, and

Remove screws ① ~ ⑪



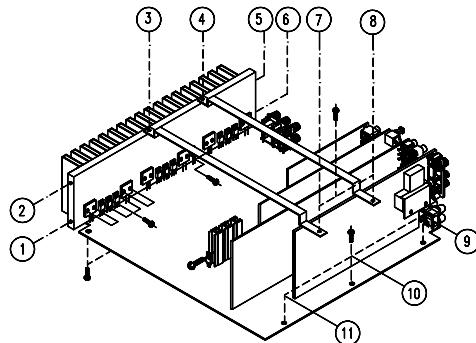
3. Removing the rear panel, and

Remove screws ① ~ ⑧



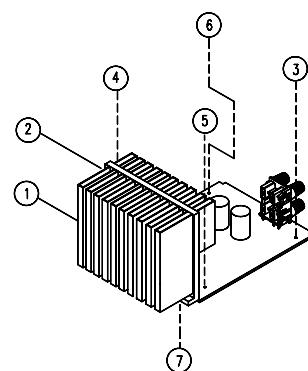
4. Removing the main PCB block, and

Remove screws ① ~ ⑪



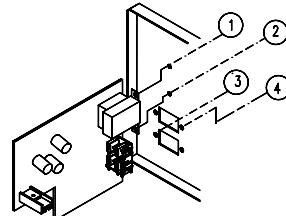
5. Removing the power PCB block, and

Remove ① ~ ⑦



6. Removing the sub PCB block, and

Remove screws ① ~ ④



MAIN AMP PCB BLOCK

1. Remove all of the screws on Rear panel.
2. Remove the Rear panel.
3. Remove PCB Brk't and Guide Brk't from Main Ass'y.
4. Remove all of the screws that connect with main Ass'y.
5. Remove the Main PCB block.

POWER PCB BLOCK

1. Remove PCB Brk't and Guide Brk't from Main Ass'y.
2. Remove 4 screws for Power PCB mounting
3. Remove the POWER PCB block.

SUB PCB BLOCK

1. Remove 4 screws on Rear panel.
2. Remove the Rear panel.
3. Remove PCB Brk't and Guide Brk't from Main Ass'y.
4. Remove the SUB PCB block.

FRONT PCB BLOCK

1. Remove Main Ass'y.
2. Remove volume and rotary knob from the front Ass'y.
3. Remove all of the screws on back side of Front function PCB.
4. Remove the Front function PCB.

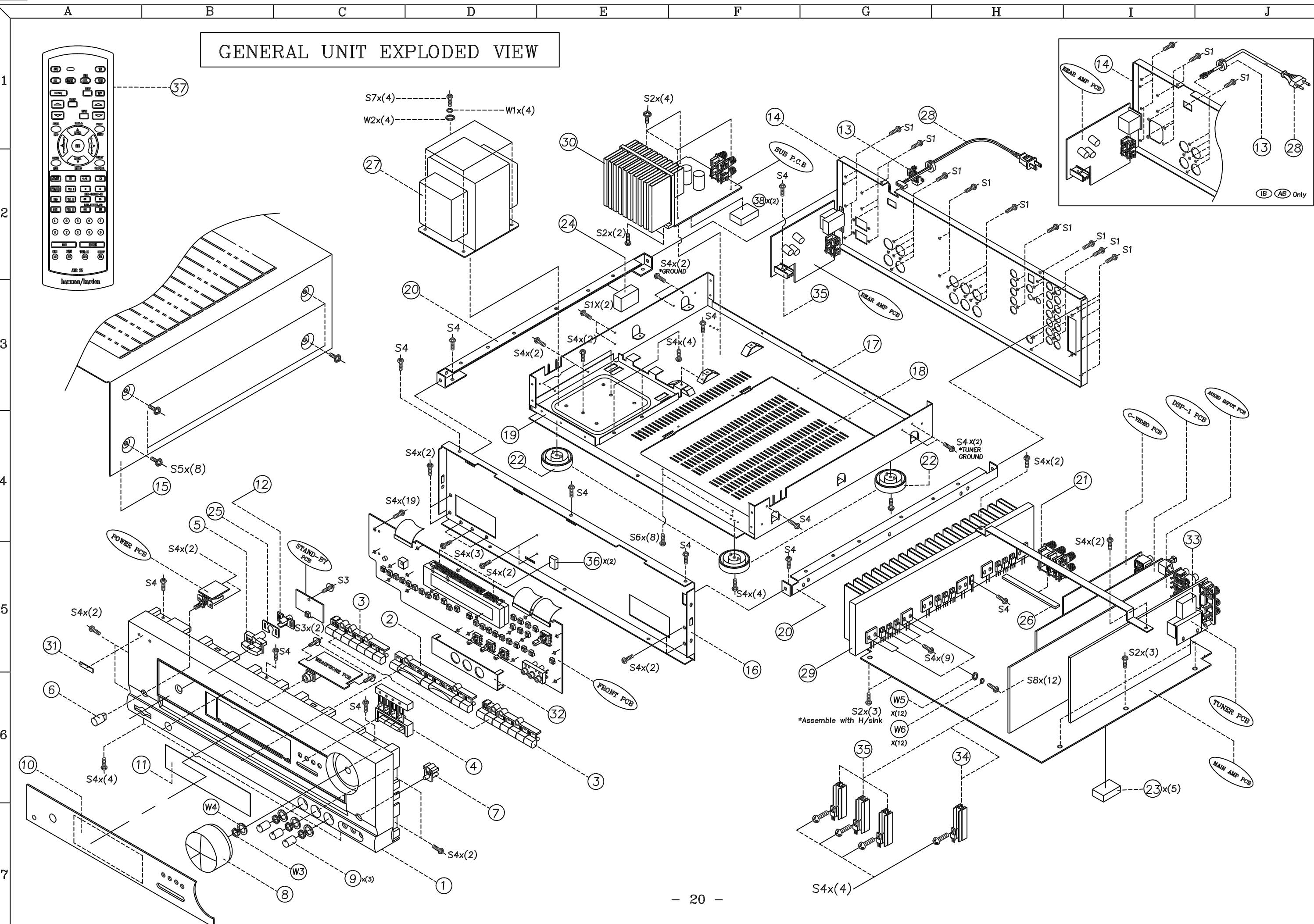
GENERAL UNIT PARTS LIST

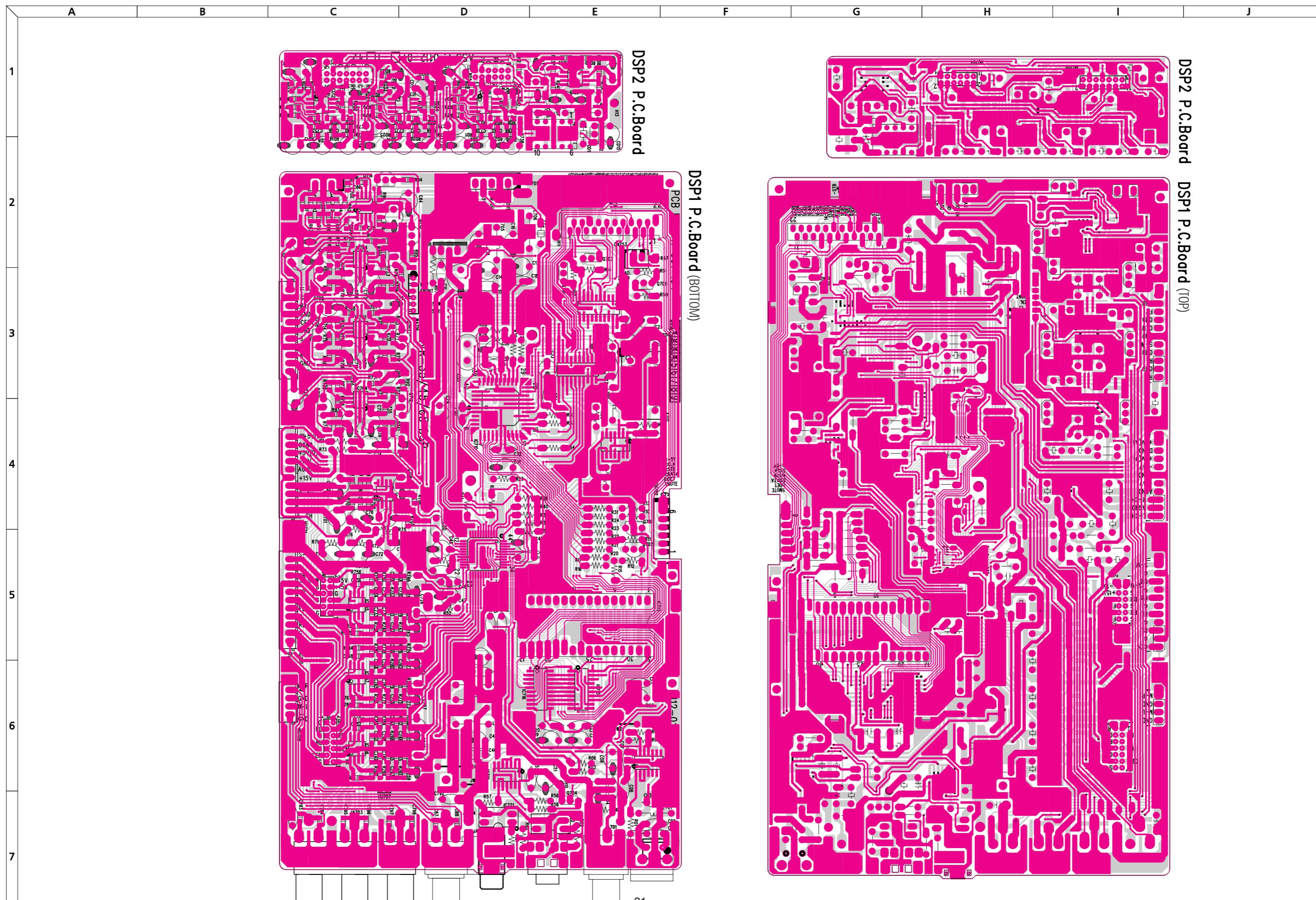
| REF NO. | PART NO. | DESCRIPTION | Q'TY |
|---------|---------------|-----------------------------------|------|
| 1 | 5111-005-010 | PANEL. FRONT BK AB | 1 |
| 1-A | 5111-008-010 | PANEL. FRONT IB | 1 |
| 2 | 5131-003-010 | KNOB. FUNCTION (A) | 1 |
| 3 | 5131-003-020 | KNOB. FUNCTION (B) | 1 |
| 4 | 5131-003-030 | KNOB. FUNCTION (C) | 2 |
| 5 | 5131-003-040 | KNOB. POWER | 1 |
| 6 | 5131-003-050 | KNOB. PUSH | 1 |
| 7 | 5131-003-060 | KNOB. TACT | 1 |
| 8 | 5131-003-070 | KNOB. VOLUME | 1 |
| 9 | 5131-003-080 | KNOB. ROTARY | 3 |
| 10 | 5141-005-010 | WINDOW. FRONT BK AB | 1 |
| 10-A | 5141-008-010 | WINDOW. FRONT IB | 1 |
| 11 | 5141-003-020 | FILTER. WINDOW | 1 |
| 12 | 5142-003-010 | LENS. POWER | 1 |
| 13 | 5179-000-060 | BUSHING. STRAIN R | 1 |
| 14 | 5212-005-010 | PANEL. REAR BK | 1 |
| 14-A | 5212-008-010 | PANEL. REAR IB | 1 |
| 14-B | 5212-011-010 | PANEL. REAR AB | 1 |
| 15 | 5213-003-010 | COVER TOP | 1 |
| 16 | 5214-003-010 | CHASSIS. FRONT | 1 |
| 17 | 5214-003-020 | CHASSIS. MAIN | 1 |
| 18 | 5214-003-030 | COVER. BOTTOM | 1 |
| 19 | 5214-003-040 | TRANS. BOTTOM | 1 |
| 20 | 5214-003-050 | FRAME. GUIDE | 2 |
| 21 | 5214-003-060 | BRKT. PCB | 2 |
| 22 | 5283-003-010 | FOOT ASSY | 4 |
| 23 | 5451-003-010 | CUSHION. PCB | 5 |
| 24 | 5451-003-040 | CUSHION (A) | 1 |
| 25 | 5451-003-050 | SHEET. POWER | 1 |
| 26 | 5451-003-060 | CUSHION. BRKT | 2 |
| 27 | 1419-000-005 | TRANS. POWER BK | 1 |
| 27-A | 1419-001-005 | TRANS. POWER IB | 1 |
| 27-B | 1419-002-005 | TRANS. POWER AB | 1 |
| 28 | 2161-000-032 | CORD. POWER BK AB | 1 |
| 28-A | 2161-001-032 | CORD. POWER IB | 1 |
| 29 | 5241-003-010 | HEAT SINK. MAIN | 1 |
| 30 | 5241-003-020 | HEATSINK. SUB | 1 |
| 31 | 5226-003-030 | CASE. SHIELD (D) | 1 |
| 32 | 5226-003-010 | CASE. SHIELD (F) | 1 |
| 33 | 5226-003-020 | CASE. SHIELD (T) | 1 |
| 34 | 5241-003-040 | HEAT SINK. REG | 1 |
| 35 | 5241-000-110 | HEAT SINK. PIN | 5 |
| 36 | 5451-003-020 | CUSHION. FLT | 2 |
| 37 | 5226-003-040 | CASE. SHIELD (T2) | 1 |
| 38 | 5421-003-070 | CUSHION (B) | 2 |
| 39 | A0191-065-000 | REMOCON ASSY BK | 1 |
| 39-A | A0191-065-001 | REMOCON ASSY IB | 1 |
| 39-B | A0191-095-001 | REMOCON ASSY AB | 1 |

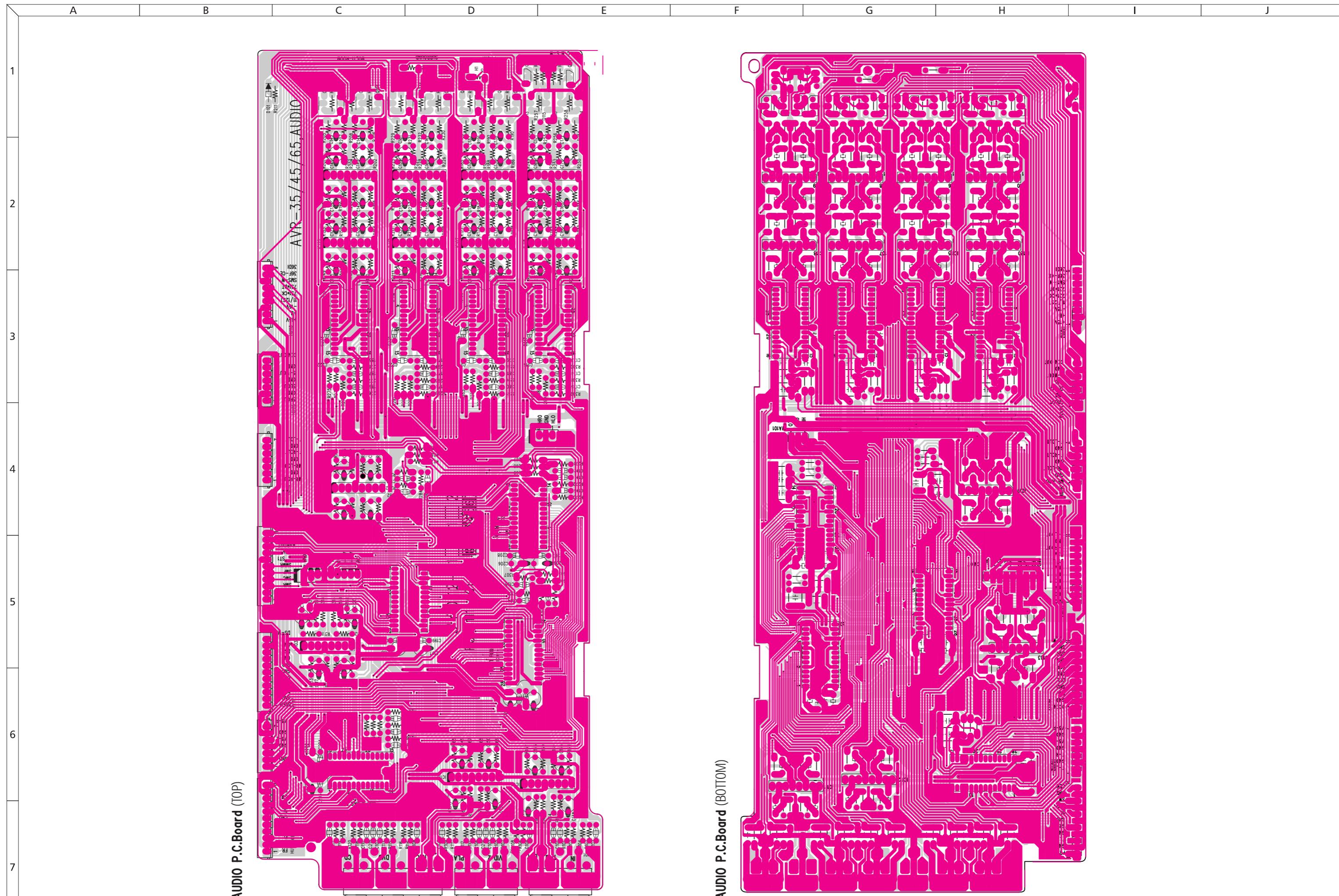
UNIT PARTS LIST

| REF NO. | PART NO. | DESCRIPTION | Q'TY |
|-------------|---------------|--------------------------------|------|
| S1 | 5636-140-010 | SCREW 3*10 TEETH COPPER | 42 |
| S2 | 5636-140-040 | SCREW A183008000 | 13 |
| S3 | 5636-140-060 | SCREW S30C BTTN D12.3X10 MC | 3 |
| S4 | 5636-140-100 | SCREW A123008002 | 76 |
| S5 | 5636-140-050 | SCREW A183006002 | 8 |
| S6 | 5636-140-220 | SCREW A183006002 | 8 |
| S7 | 5636-140-080 | SCREW A124008000 | 4 |
| S8 | 5636-140-030 | SCREW A113016000 | 10 |
| W1 | 5541-001-030 | WASHER. SPRING N2.0 M4.0 MC | 4 |
| W2 | 5541-001-040 | WASHER. PLAT P/W 4.7X12X1.0 MC | 4 |
| W3 | 5541-001-010 | WASHER. SPRING NO2 M3.0 MC | 20 |
| W4 | 5541-001-020 | WASHER. PLAT P/W 3.3X8X0.5 MC | 20 |
| MAIN AMP | 0112-001-160 | ASSY-PCB : MAIN AMP | |
| REAR AMP | 0112-001-1611 | ASSY-PCB : REAR AMP | |
| SUB | 0112-001-1612 | ASSY-PCB : SUB | |
| C-VIDEO | 0112-001-151 | ASSY-PCB : C-VIDEO | |
| S-VIDEO | 0112-001-161 | ASSY-PCB : S-VIDEO | |
| AUDIO INPUT | 0112-001-152 | ASSY-PCB : AUDIO INPUT | |
| TUNER | 0112-001-1632 | ASSY-PCB : TUNER | |
| FRONT | 0112-001-1631 | ASSY-PCB : FRONT | |
| POWER | 0112-001-1633 | ASSY-PCB : POWER | |
| HEAD PHONE | 0112-001-154 | ASSY-PCB : HEADPHONE | |
| DSP1 | 0112-001-154 | ASSY-PCB : DSP1 | |
| DSP2 | 0112-001-154 | ASSY-PCB : DSP2 | |
| STAND-BY | 0112-001-1634 | ASSY-PCB : STAND-BY | |

GENERAL UNIT EXPLODED VIEW

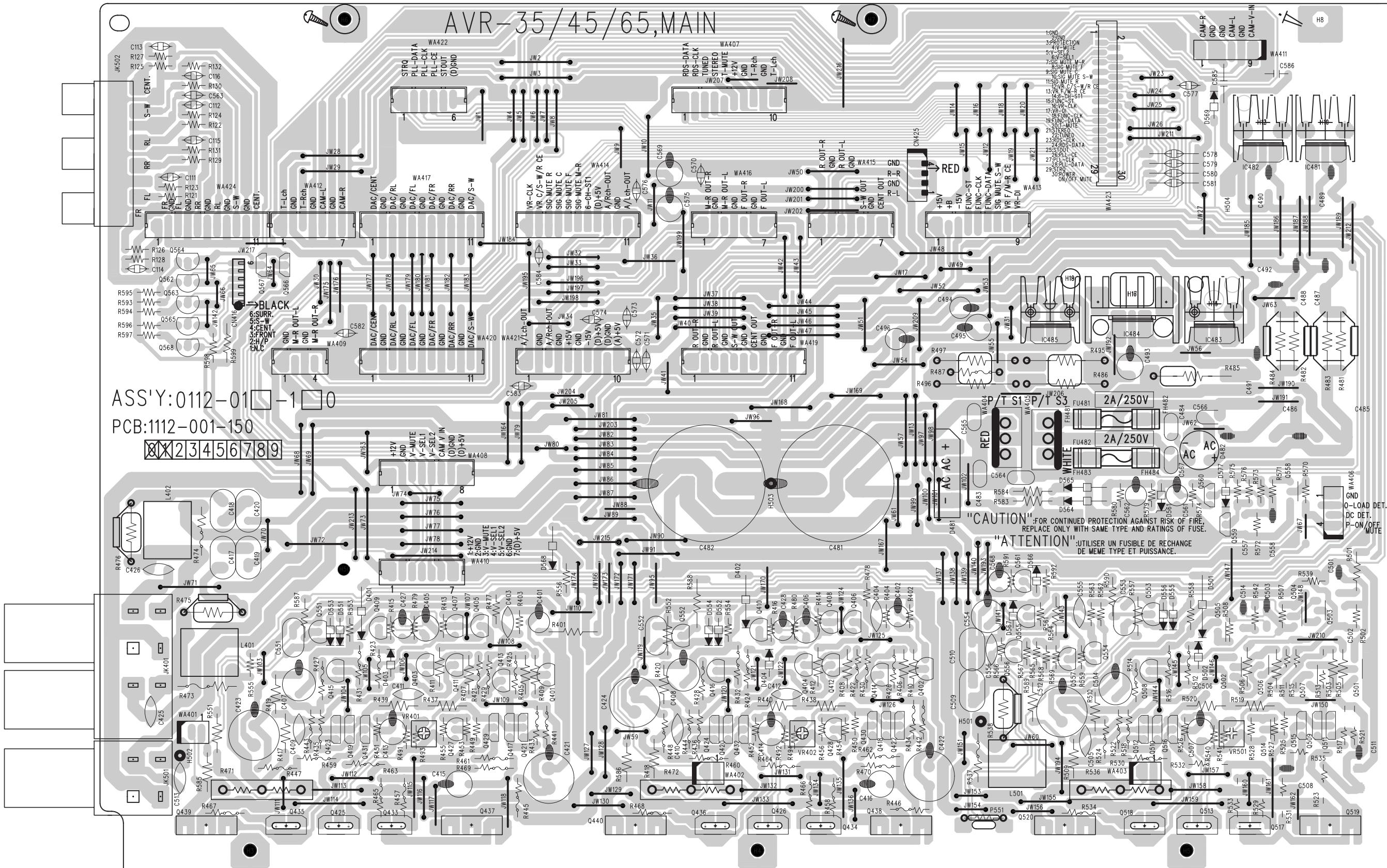






A B C D E F G H I J

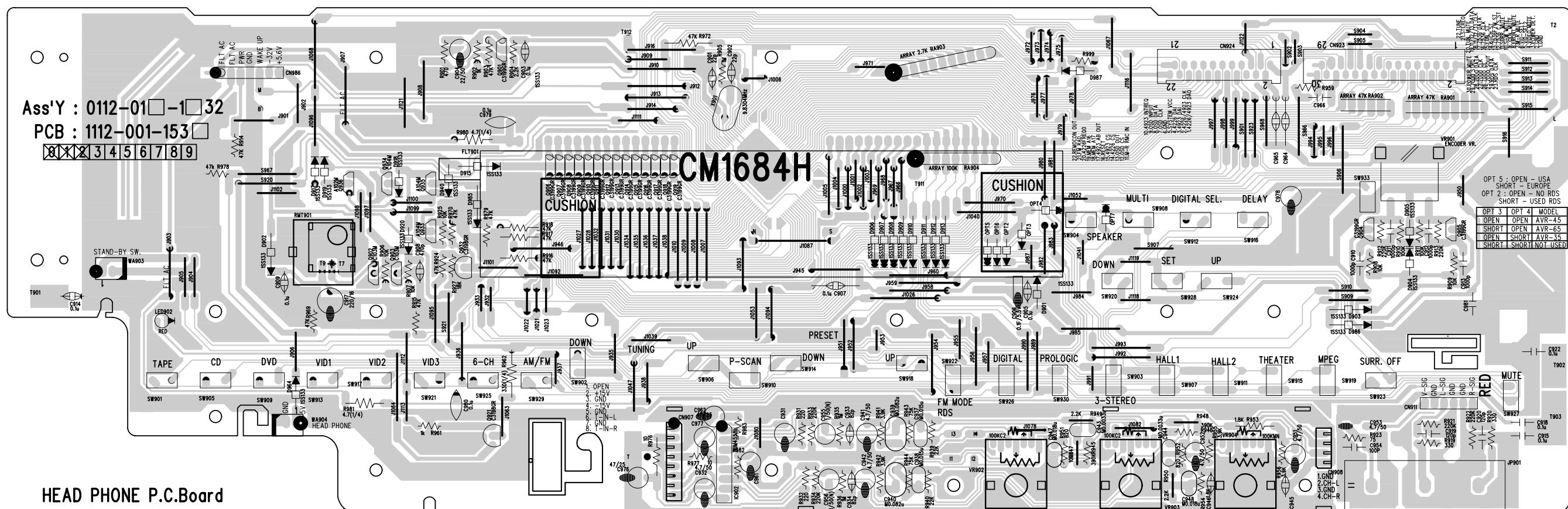
MAIN AMP P.C.Board



A B C D E F G H I J

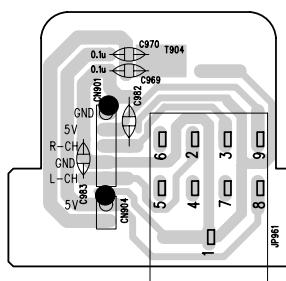
1

FRONT P.C. Board



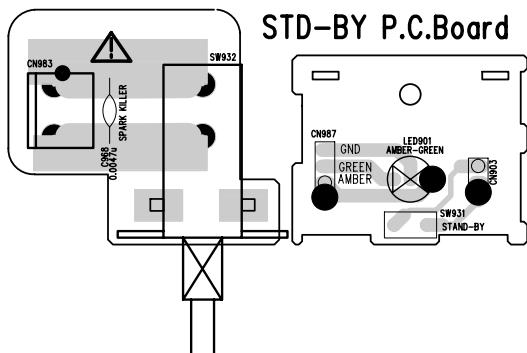
2

HEAD PHONE P.C. Board



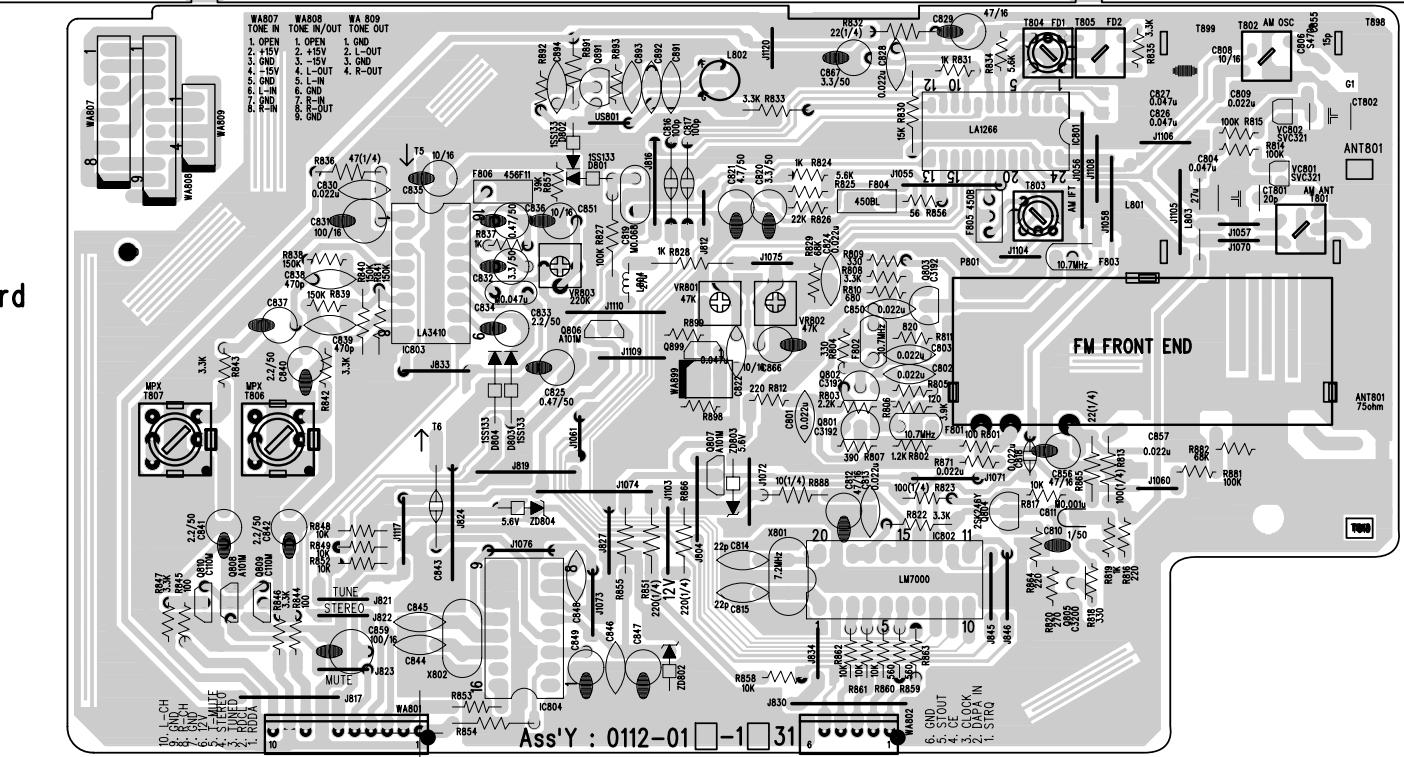
3

POWER P.C. Board



4

STD-BY P.C. Board



5

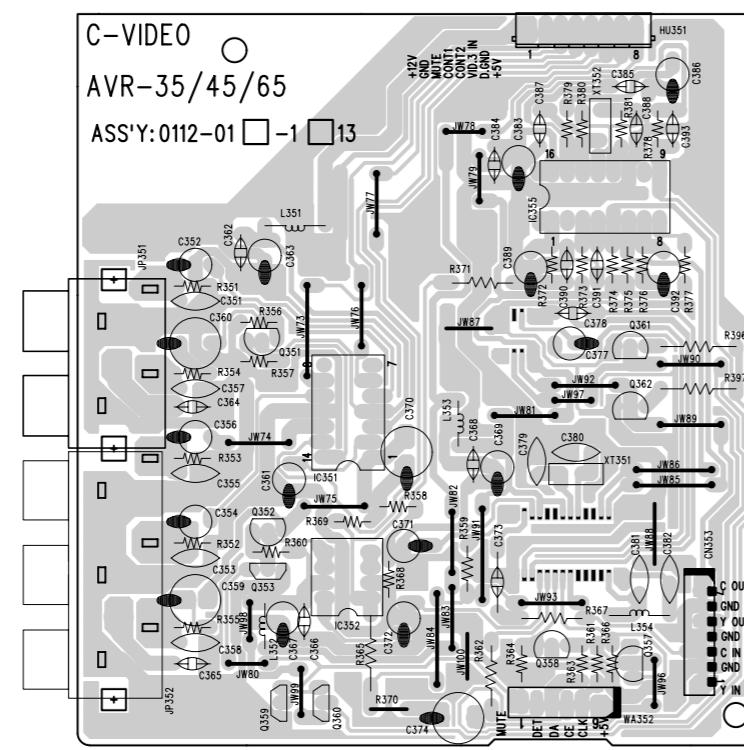
6

7

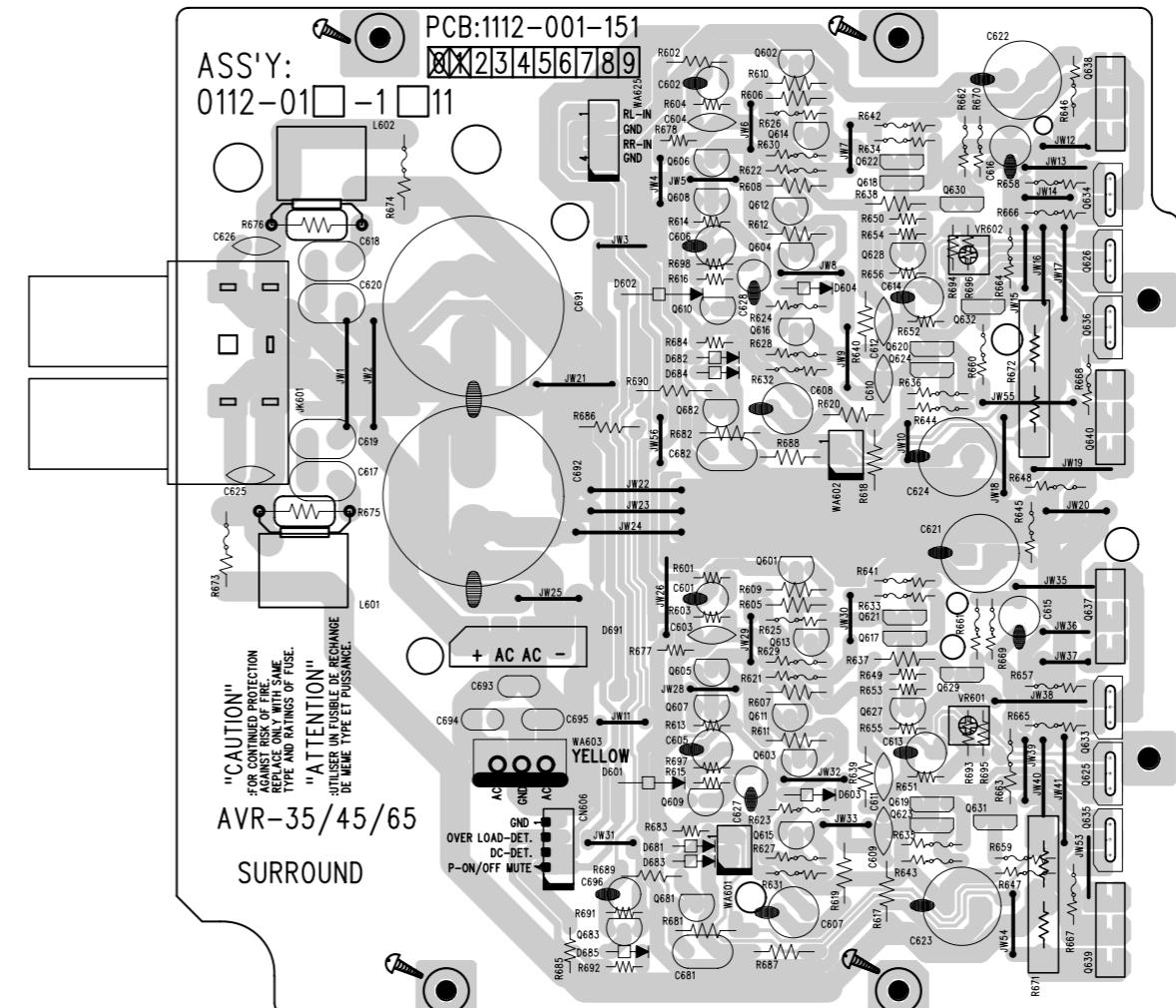
A B C D E F G H I J

1

C-Video P.C. Board

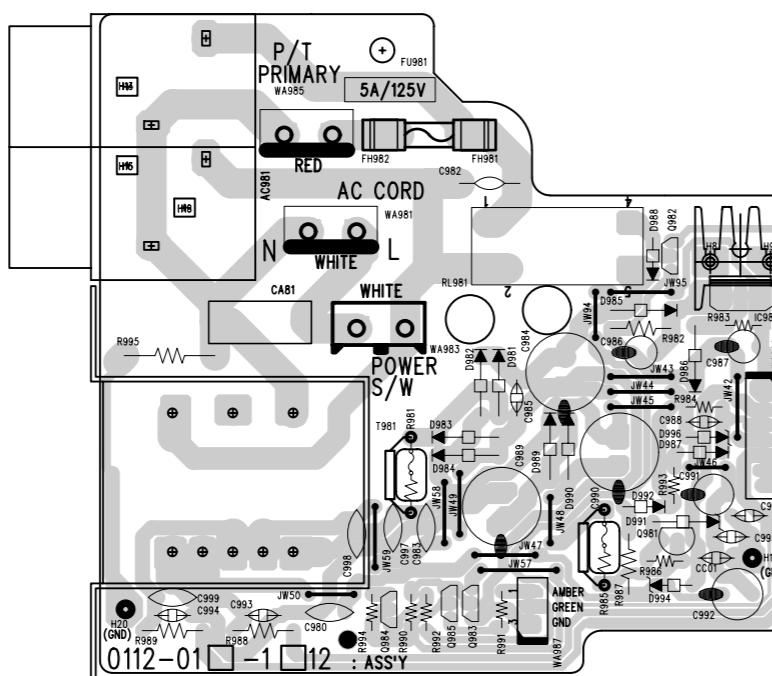


Rear Amp P.C. Board



2

SUB P.C. Board



3

4

5

6

7

ELECTRICAL PARTS LIST(35Series)

| REF NO. | PART NO | DESCRIPTION | REF NO. | PART NO | DESCRIPTION | | | |
|---------------------------------|--------------|---------------------------|-------------------|--------------|----------------|--|--|--|
| 0112-011-150 MAIN AMP P.C.BOARD | | | | | | | | |
| INTEGRATED CIRCUITS | | | | | | | | |
| ▲ IC 484 | 1217-780-002 | IC 7805 REGULATOR | Q 432 | 1244-124-002 | KTA1024-Y PNP | | | |
| ▲ IC 485 | 1217-780-002 | IC 7805 REGULATOR | Q 509 | 1244-124-002 | KTA1024-Y PNP | | | |
| ▲ IC 481 | 1217-781-001 | IC 7815 REGULATOR | Q 511 | 1244-124-002 | KTA1024-Y PNP | | | |
| ▲ IC 483 | 1217-782-001 | IC 7812 REGULATOR | Q 516 | 1244-124-002 | KTA1024-Y PNP | | | |
| ▲ IC 482 | 1217-791-001 | IC 7915 REGULATOR | Q 557 | 1244-126-004 | KTA1266-GR PNP | | | |
| TRANSISTORS | | | Q 558 | 1244-126-004 | KTA1266-GR PNP | | | |
| ▲ Q 437 | 1241-524-001 | POWER 2SC5242-R(130W) NPN | Q 562 | 1244-126-004 | KTA1266-GR PNP | | | |
| ▲ Q 438 | 1241-524-001 | POWER 2SC5242-R(130W) NPN | Q 568 | 1244-126-004 | KTA1266-GR PNP | | | |
| ▲ Q 519 | 1241-524-001 | POWER 2SC5242-R(130W) NPN | Q 411 | 1244-128-001 | KTA1268-GR PNP | | | |
| ▲ Q 439 | 1242-196-001 | POWER 2SA1962-R(130W) PNP | Q 412 | 1244-128-001 | KTA1268-GR PNP | | | |
| ▲ Q 440 | 1242-196-001 | POWER 2SA1962-R(130W) PNP | Q 413 | 1244-128-001 | KTA1268-GR PNP | | | |
| ▲ Q 520 | 1242-196-001 | POWER 2SA1962-R(130W) PNP | Q 414 | 1244-128-001 | KTA1268-GR PNP | | | |
| Q 559 | 1243-102-001 | KRC102M NPN | Q 506 | 1244-128-001 | KTA1268-GR PNP | | | |
| Q 560 | 1243-102-001 | KRC102M NPN | Q 507 | 1244-128-001 | KTA1268-GR PNP | | | |
| Q 566 | 1243-102-001 | KRC102M NPN | Q 561 | 1244-128-001 | KTA1268-GR PNP | | | |
| Q 567 | 1243-102-001 | KRC102M NPN | Q 433 | 1244-169-001 | KTA1659-Y PNP | | | |
| Q 407 | 1243-319-001 | KTC3198-GR NPN | Q 434 | 1244-169-001 | KTA1659-Y PNP | | | |
| Q 408 | 1243-319-001 | KTC3198-GR NPN | Q 517 | 1244-169-001 | KTA1659-Y PNP | | | |
| Q 504 | 1243-319-001 | KTC3198-GR NPN | FET | | | | | |
| Q 554 | 1243-319-001 | KTC3198-GR NPN | Q 409 | 1248-000-004 | 2SK373-GR N-CH | | | |
| Q 555 | 1243-319-001 | KTC3198-GR NPN | Q 410 | 1248-000-004 | 2SK373-GR N-CH | | | |
| Q 556 | 1243-319-001 | KTC3198-GR NPN | Q 505 | 1248-000-004 | 2SK373-GR N-CH | | | |
| Q 401 | 1243-320-001 | KTC3200-GR NPN | DIODES | | | | | |
| Q 402 | 1243-320-001 | KTC3200-GR NPN | D 566 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 403 | 1243-320-001 | KTC3200-GR NPN | D 567 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 404 | 1243-320-001 | KTC3200-GR NPN | D 401 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 405 | 1243-320-001 | KTC3200-GR NPN | D 402 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 406 | 1243-320-001 | KTC3200-GR NPN | D 501 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 415 | 1243-320-001 | KTC3200-GR NPN | D 568 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 416 | 1243-320-001 | KTC3200-GR NPN | D 569 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 427 | 1243-320-001 | KTC3200-GR NPN | D 577 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 428 | 1243-320-001 | KTC3200-GR NPN | D 403 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 501 | 1243-320-001 | KTC3200-GR NPN | D 404 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 502 | 1243-320-001 | KTC3200-GR NPN | D 502 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 503 | 1243-320-001 | KTC3200-GR NPN | D 551 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 508 | 1243-320-001 | KTC3200-GR NPN | D 552 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 514 | 1243-320-001 | KTC3200-GR NPN | D 553 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 551 | 1243-320-001 | KTC3200-GR NPN | D 554 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 552 | 1243-320-001 | KTC3200-GR NPN | D 555 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 553 | 1243-320-001 | KTC3200-GR NPN | D 556 | 1252-000-017 | 1SS133 ,SW. | | | |
| Q 419 | 1243-326-001 | KTC3206-Y NPN | ▲ D 564 | 1252-001-004 | 1N4004 1A/400V | | | |
| Q 420 | 1243-326-001 | KTC3206-Y NPN | ▲ D 565 | 1252-001-004 | 1N4004 1A/400V | | | |
| Q 423 | 1243-326-001 | KTC3206-Y NPN | ▲ D 482 | 1253-000-004 | W2-04F BRIDGE | | | |
| Q 424 | 1243-326-001 | KTC3206-Y NPN | ▲ D 481 | 1253-000-005 | BU8-04F BRIDGE | | | |
| Q 429 | 1243-326-001 | KTC3206-Y NPN | ▲ D 561 | 1254-5R1-021 | ZENER 5.1V | | | |
| Q 430 | 1243-326-001 | KTC3206-Y NPN | RESISTORS(CARBON) | | | | | |
| Q 510 | 1243-326-001 | KTC3206-Y NPN | R 477 | 1742-100-721 | 1/8W 10W-J | | | |
| Q 512 | 1243-326-001 | KTC3206-Y NPN | R 478 | 1742-100-721 | 1/8W 10W-J | | | |
| Q 515 | 1243-326-001 | KTC3206-Y NPN | R 539 | 1742-100-721 | 1/8W 10W-J | | | |
| Q 425 | 1243-437-001 | KTC4370-Y NPN | R 566 | 1742-101-721 | 1/8W 100W-J | | | |
| Q 426 | 1243-437-001 | KTC4370-Y NPN | R 449 | 1742-102-721 | 1/8W 1KWF-J | | | |
| Q 435 | 1243-437-001 | KTC4370-Y NPN | R 450 | 1742-102-721 | 1/8W 1KWF-J | | | |
| Q 436 | 1243-437-001 | KTC4370-Y NPN | R 525 | 1742-102-721 | 1/8W 1KWF-J | | | |
| Q 513 | 1243-437-001 | KTC4370-Y NPN | R 573 | 1742-103-721 | 1/8W 10KW-J | | | |
| Q 518 | 1243-437-001 | KTC4370-Y NPN | R 574 | 1742-103-721 | 1/8W 10KW-J | | | |
| Q 417 | 1244-124-002 | KTA1024-Y PNP | R 580 | 1742-103-721 | 1/8W 10KW-J | | | |
| Q 418 | 1244-124-002 | KTA1024-Y PNP | R 591 | 1742-103-721 | 1/8W 10KW-J | | | |
| Q 421 | 1244-124-002 | KTA1024-Y PNP | R 479 | 1742-103-721 | 1/8W 10KW-J | | | |
| Q 422 | 1244-124-002 | KTA1024-Y PNP | R 480 | 1742-103-721 | 1/8W 10KW-J | | | |
| Q 431 | 1244-124-002 | KTA1024-Y PNP | R 542 | 1742-103-721 | 1/8W 10KW-J | | | |
| | | | R 575 | 1742-103-721 | 1/8W 10KW-J | | | |
| | | | R 576 | 1742-103-721 | 1/8W 10KW-J | | | |

* Note
J : +5%~ - 5%
(Tolerance)

| REF NO. | PART NO | DESCRIPTION | REF NO. | PART NO | DESCRIPTION |
|---------|--------------|--------------|---------------------------|--------------|-------------|
| R 565 | 1742-123-721 | 1/8W 12KW-J | R 505 | 1744-331-731 | 1/4W 330W-J |
| R 553 | 1742-153-721 | 1/8W 15KW-J | R 506 | 1744-331-731 | 1/4W 330W-J |
| R 553 | 1742-153-721 | 1/8W 15KW-J | R 417 | 1744-393-731 | 1/4W 39KW-J |
| R 554 | 1742-153-721 | 1/8W 15KW-J | R 418 | 1744-393-731 | 1/4W 39KW-J |
| R 558 | 1742-153-721 | 1/8W 15KW-J | R 509 | 1744-393-731 | 1/4W 39KW-J |
| R 572 | 1742-153-721 | 1/8W 15KW-J | R 583 | 1744-681-731 | 1/4W 680W-J |
| R 555 | 1742-183-721 | 1/8W 18KW-J | R 584 | 1744-681-731 | 1/4W 680W-J |
| R 556 | 1742-183-721 | 1/8W 18KW-J | R 415 | 1742-273-721 | 1/8W 27KW-J |
| R 559 | 1742-183-721 | 1/8W 18KW-J | R 416 | 1742-273-721 | 1/8W 27KW-J |
| R 598 | 1742-183-721 | 1/8W 18KW-J | R 508 | 1742-273-721 | 1/8W 27KW-J |
| R 599 | 1742-183-721 | 1/8W 18KW-J | RESISTORS(FUSIBLE) | | |
| R 570 | 1742-222-721 | 1/8W 2.2KW-J | ▲ R 473 | 1761-100-731 | 1/4W 10W-J |
| R 579 | 1742-222-721 | 1/8W 2.2KW-J | ▲ R 474 | 1761-100-731 | 1/4W 10W-J |
| R 413 | 1742-271-721 | 1/8W 270W-J | ▲ R 537 | 1761-100-731 | 1/4W 10W-J |
| R 414 | 1742-271-721 | 1/8W 270W-J | ▲ R 457 | 1761-101-731 | 1/4W 100W-J |
| R 507 | 1742-271-721 | 1/8W 270W-J | ▲ R 458 | 1761-101-731 | 1/4W 100W-J |
| R 401 | 1742-331-721 | 1/8W 330W-J | ▲ R 459 | 1761-101-731 | 1/4W 100W-J |
| R 402 | 1742-331-721 | 1/8W 330W-J | ▲ R 460 | 1761-101-731 | 1/4W 100W-J |
| R 501 | 1742-331-721 | 1/8W 330W-J | ▲ R 529 | 1761-101-731 | 1/4W 100W-J |
| R 403 | 1742-333-721 | 1/8W 33KW-J | ▲ R 530 | 1761-101-731 | 1/4W 100W-J |
| R 404 | 1742-333-721 | 1/8W 33KW-J | ▲ R 461 | 1761-150-731 | 1/4W 15W-J |
| R 502 | 1742-333-721 | 1/8W 33KW-J | ▲ R 462 | 1761-150-731 | 1/4W 15W-J |
| R 587 | 1742-393-721 | 1/8W 39KW-J | ▲ R 463 | 1761-150-731 | 1/4W 15W-J |
| R 588 | 1742-393-721 | 1/8W 39KW-J | ▲ R 464 | 1761-150-731 | 1/4W 15W-J |
| R 590 | 1742-393-721 | 1/8W 39KW-J | ▲ R 531 | 1761-150-731 | 1/4W 15W-J |
| R 592 | 1742-393-721 | 1/8W 39KW-J | ▲ R 532 | 1761-150-731 | 1/4W 15W-J |
| R 453 | 1742-472-721 | 1/8W 4.7KW-J | ▲ R 433 | 1761-151-731 | 1/4W 150W-J |
| R 454 | 1742-472-721 | 1/8W 4.7KW-J | ▲ R 434 | 1761-151-731 | 1/4W 150W-J |
| R 527 | 1742-472-721 | 1/8W 4.7KW-J | ▲ R 435 | 1761-151-731 | 1/4W 150W-J |
| R 563 | 1742-473-721 | 1/8W 47KW-J | ▲ R 436 | 1761-151-731 | 1/4W 150W-J |
| R 451 | 1742-561-721 | 1/8W 560W-J | ▲ R 441 | 1761-151-731 | 1/4W 150W-J |
| R 452 | 1742-561-721 | 1/8W 560W-J | ▲ R 442 | 1761-151-731 | 1/4W 150W-J |
| R 526 | 1742-561-721 | 1/8W 560W-J | ▲ R 443 | 1761-151-731 | 1/4W 150W-J |
| R 455 | 1742-562-721 | 1/8W 5.6KW-J | ▲ R 444 | 1761-151-731 | 1/4W 150W-J |
| R 456 | 1742-562-721 | 1/8W 5.6KW-J | ▲ R 517 | 1761-151-731 | 1/4W 150W-J |
| R 528 | 1742-562-721 | 1/8W 5.6KW-J | ▲ R 518 | 1761-151-731 | 1/4W 150W-J |
| R 562 | 1742-563-721 | 1/8W 56KW-J | ▲ R 521 | 1761-151-731 | 1/4W 150W-J |
| R 564 | 1742-563-721 | 1/8W 56KW-J | ▲ R 522 | 1761-151-731 | 1/4W 150W-J |
| R 561 | 1742-822-721 | 1/8W 8.2KW-J | ▲ R 465 | 1761-2R2-731 | 1/4W 2.2W-J |
| R 551 | 1744-102-731 | 1/4W 1KW-J | ▲ R 466 | 1761-2R2-731 | 1/4W 2.2W-J |
| R 552 | 1744-102-731 | 1/4W 1KW-J | ▲ R 467 | 1761-2R2-731 | 1/4W 2.2W-J |
| R 557 | 1744-102-731 | 1/4W 1KW-J | ▲ R 468 | 1761-2R2-731 | 1/4W 2.2W-J |
| R 585 | 1744-102-731 | 1/4W 1KW-J | ▲ R 533 | 1761-2R2-731 | 1/4W 2.2W-J |
| R 586 | 1744-102-731 | 1/4W 1KW-J | ▲ R 534 | 1761-2R2-731 | 1/4W 2.2W-J |
| R 589 | 1744-102-731 | 1/4W 1KW-J | ▲ R 421 | 1761-561-731 | 1/4W 560W-J |
| R 405 | 1744-152-731 | 1/4W 1.5KW-J | ▲ R 422 | 1761-561-731 | 1/4W 560W-J |
| R 406 | 1744-152-731 | 1/4W 1.5KW-J | ▲ R 423 | 1761-561-731 | 1/4W 560W-J |
| R 407 | 1744-152-731 | 1/4W 1.5KW-J | ▲ R 424 | 1761-561-731 | 1/4W 560W-J |
| R 408 | 1744-152-731 | 1/4W 1.5KW-J | ▲ R 425 | 1761-561-731 | 1/4W 560W-J |
| R 503 | 1744-152-731 | 1/4W 1.5KW-J | ▲ R 426 | 1761-561-731 | 1/4W 560W-J |
| R 504 | 1744-152-731 | 1/4W 1.5KW-J | ▲ R 427 | 1761-561-731 | 1/4W 560W-J |
| R 437 | 1744-153-731 | 1/4W 15KW-J | ▲ R 428 | 1761-561-731 | 1/4W 560W-J |
| R 438 | 1744-153-731 | 1/4W 15KW-J | ▲ R 429 | 1761-561-731 | 1/4W 560W-J |
| R 439 | 1744-153-731 | 1/4W 15KW-J | ▲ R 430 | 1761-561-731 | 1/4W 560W-J |
| R 440 | 1744-153-731 | 1/4W 15KW-J | ▲ R 431 | 1761-561-731 | 1/4W 560W-J |
| R 519 | 1744-153-731 | 1/4W 15KW-J | ▲ R 432 | 1761-561-731 | 1/4W 560W-J |
| R 520 | 1744-153-731 | 1/4W 15KW-J | ▲ R 511 | 1761-561-731 | 1/4W 560W-J |
| R 419 | 1744-182-731 | 1/4W 1.8KW-J | ▲ R 512 | 1761-561-731 | 1/4W 560W-J |
| R 420 | 1744-182-731 | 1/4W 1.8KW-J | ▲ R 513 | 1761-561-731 | 1/4W 560W-J |
| R 510 | 1744-182-731 | 1/4W 1.8KW-J | ▲ R 514 | 1761-561-731 | 1/4W 560W-J |
| R 409 | 1744-331-731 | 1/4W 330W-J | ▲ R 515 | 1761-561-731 | 1/4W 560W-J |
| R 410 | 1744-331-731 | 1/4W 330W-J | ▲ R 516 | 1761-561-731 | 1/4W 560W-J |
| R 419 | 1744-202-731 | 1/4W 2KW-J | ▲ R 469 | 1761-820-731 | 1/4W 82W-J |
| R 420 | 1744-202-731 | 1/4W 2KW-J | ▲ R 470 | 1761-820-731 | 1/4W 82W-J |
| R 510 | 1744-202-731 | 1/4W 2KW-J | ▲ R 535 | 1761-820-731 | 1/4W 82W-J |
| R 409 | 1744-331-731 | 1/4W 330W-J | RESISTORS(METAL) | | |
| R 410 | 1744-331-731 | 1/4W 330W-J | ▲ R 445 | 1772-100-731 | 1/4W 10W-J |
| R 411 | 1744-331-731 | 1/4W 330W-J | | | |
| R 412 | 1744-331-731 | 1/4W 330W-J | | | |

| REF NO. | PART NO | DESCRIPTION | |
|---------|--------------|-------------|-------|
| ▲ R 446 | 1772-100-731 | 1/4W | 10W-J |
| ▲ R 447 | 1772-100-731 | 1/4W | 10W-J |
| ▲ R 448 | 1772-100-731 | 1/4W | 10W-J |
| ▲ R 523 | 1772-100-731 | 1/4W | 10W-J |
| ▲ R 524 | 1772-100-731 | 1/4W | 10W-J |
| ▲ R 475 | 1771-100-751 | 1W | 10W-J |
| ▲ R 476 | 1771-100-751 | 1W | 10W-J |
| ▲ R 487 | 1771-100-751 | 1W | 10W-J |
| ▲ R 538 | 1771-100-751 | 1W | 10W-J |
| ▲ R 481 | 1771-220-751 | 1W | 22W-J |
| ▲ R 482 | 1771-220-751 | 1W | 22W-J |
| ▲ R 483 | 1771-220-751 | 1W | 22W-J |
| ▲ R 484 | 1771-220-751 | 1W | 22W-J |
| ▲ R 485 | 1771-100-731 | 3W | 10W-J |
| ▲ R 486 | 1771-150-771 | 3W | 15W-J |
| ▲ R 495 | 1771-150-771 | 3W | 15W-J |
| ▲ R 496 | 1771-150-771 | 3W | 15W-J |
| ▲ R 497 | 1771-150-771 | 3W | 15W-J |

RESISTORS(CEMENT)

| | | | |
|---------|--------------|----|---------|
| ▲ R 471 | 1775-R22-782 | 5W | 0.22W-J |
| ▲ R 472 | 1775-R22-782 | 5W | 0.22W-J |
| ▲ R 536 | 1775-R22-782 | 5W | 0.22W-J |

CAPACITORS

| | | | | |
|-------|--------------|---------|------|-----------|
| C 419 | 1822-030-311 | CERA/RA | 50V | 3pF-C |
| C 410 | 1822-030-311 | CERA/RA | 50V | 3pF-C |
| C 505 | 1822-030-311 | CERA/RA | 50V | 3pF-C |
| C 411 | 1822-101-772 | CERA/RA | 50V | 100pF-J |
| C 412 | 1822-101-772 | CERA/RA | 50V | 100pF-J |
| C 506 | 1822-101-772 | CERA/RA | 50V | 100pF-J |
| C 557 | 1822-102-882 | CERA/RA | 50V | 0.001uF-K |
| C 555 | 1822-103-822 | CERA/RA | 50V | 103pF-K |
| C 556 | 1822-103-822 | CERA/RA | 50V | 103pF-K |
| C 403 | 1822-680-712 | CERA/RA | 50V | 68pF-J |
| C 404 | 1822-680-712 | CERA/RA | 50V | 68pF-J |
| C 502 | 1822-680-712 | CERA/RA | 50V | 68pF-J |
| C 563 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z |
| C 582 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z |
| C 583 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z |
| C 584 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z |
| C 585 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z |
| C 586 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z |
| C 485 | 1861-222-710 | ELECT | 35V | 2200uF-M |
| C 486 | 1861-222-710 | ELECT | 35V | 2200uF-M |
| C 481 | 1861-822-214 | ELECT | 63V | 8200uF-M |
| C 482 | 1861-822-214 | ELECT | 63V | 8200uF-M |
| C 561 | 1862-010-804 | ELECT | 50V | 1.0uF-M |
| C 413 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 414 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 415 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 416 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 507 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 508 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 568 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 558 | 1862-100-706 | ELECT | 35V | 10uF-M |
| C 562 | 1862-100-804 | ELECT | 50V | 10uF-M |
| C 427 | 1862-220-604 | ELECT | 25V | 22uF-M |
| C 428 | 1862-220-604 | ELECT | 25V | 22uF-M |
| C 514 | 1862-220-604 | ELECT | 25V | 22uF-M |
| C 489 | 1862-470-604 | ELECT | 25V | 47uF-M |
| C 490 | 1862-470-604 | ELECT | 25V | 47uF-M |
| C 492 | 1862-470-604 | ELECT | 25V | 47uF-M |
| C 494 | 1862-470-604 | ELECT | 25V | 47uF-M |
| C 496 | 1862-470-604 | ELECT | 25V | 47uF-M |
| C 487 | 1862-470-814 | ELECT | 50V | 47uF-M |
| C 488 | 1862-470-814 | ELECT | 50V | 47uF-M |
| C 491 | 1862-470-814 | ELECT | 50V | 47uF-M |
| C 493 | 1862-470-814 | ELECT | 50V | 47uF-M |

| REF NO. | PART NO | DESCRIPTION | |
|---------|--------------|-------------|----------------|
| C 495 | 1862-470-814 | ELECT | 50V 47uF-M |
| C 421 | 1862-471-011 | ELECT | 63V 470uF-M |
| C 422 | 1862-471-011 | ELECT | 63V 470uF-M |
| C 423 | 1862-471-011 | ELECT | 63V 470uF-M |
| C 424 | 1862-471-011 | ELECT | 63V 470uF-M |
| C 511 | 1862-471-011 | ELECT | 63V 470uF-M |
| C 512 | 1862-471-011 | ELECT | 63V 470uF-M |
| C 554 | 1862-471-306 | ELECT | 10V 470uF-M |
| C 405 | 1862-101-605 | ELECT | 25V 100uF-M |
| C 406 | 1862-101-605 | ELECT | 25V 100uF-M |
| C 503 | 1862-101-605 | ELECT | 25V 100uF-M |
| C 401 | 1862-100-604 | ELECT | 25V 10uF-M |
| C 402 | 1862-100-604 | ELECT | 25V 10uF-M |
| C 501 | 1862-100-604 | ELECT | 25V 10uF-M |
| C 407 | 1862-221-317 | ELECT | 10V 220uF-M |
| C 408 | 1862-221-317 | ELECT | 10V 220uF-M |
| C 504 | 1862-221-317 | ELECT | 10V 220uF-M |
| C 484 | 1876-103-811 | MYLAR | 100V 0.01uF-K |
| C 566 | 1876-103-811 | MYLAR | 100V 0.01uF-K |
| C 567 | 1876-103-811 | MYLAR | 100V 0.01uF-K |
| C 417 | 1876-104-811 | MYLAR | 100V 0.1uF-K |
| C 418 | 1876-104-811 | MYLAR | 100V 0.1uF-K |
| C 419 | 1876-104-811 | MYLAR | 100V 0.1uF-K |
| C 420 | 1876-104-811 | MYLAR | 100V 0.1uF-K |
| C 509 | 1876-104-811 | MYLAR | 100V 0.1uF-K |
| C 510 | 1876-104-811 | MYLAR | 100V 0.1uF-K |
| C 551 | 1876-683-811 | MYLAR | 100V 0.068uF-K |
| C 552 | 1876-683-811 | MYLAR | 100V 0.068uF-K |
| C 553 | 1876-683-811 | MYLAR | 100V 0.068uF-K |
| C 483 | 1879-103-004 | FILM | 400 0.01uF-K |
| C 564 | 1879-103-004 | FILM | 400V 0.01uF-K |
| C 565 | 1879-103-004 | FILM | 400V 0.01uF-K |

WAFERS

| | | | |
|--------|--------------|-----|---------------------|
| WA 401 | 2111-023-002 | 2P | 5267-02A |
| WA 402 | 2111-023-002 | 2P | 5267-02A |
| WA 403 | 2111-023-002 | 2P | 5267-02A |
| WA 406 | 2111-023-004 | 4P | 5267-04A |
| WA 411 | 2111-023-006 | 6P | 5267-06A |
| WA 405 | 2111-027-003 | 3P | JE202-1T-03 |
| WA 404 | 2111-028-003 | 3P | JE202-1T-03R |
| WA 423 | 2113-030-001 | 30P | 00-8370-301-000-800 |
| WA 422 | 2114-604-006 | 6P | JE-604-06,PLUG |
| WA 412 | 2114-604-007 | 7P | JE-604-07,PLUG |
| WA 415 | 2114-604-007 | 7P | JE-604-07,PLUG |
| WA 416 | 2114-604-007 | 7P | JE-604-07,PLUG |
| WA 408 | 2114-604-008 | 8P | JE-604-08,PLUG |
| WA 413 | 2114-604-009 | 9P | JE-604-09,PLUG |
| WA 407 | 2114-604-010 | 10P | JE-604-10,PLUG |
| WA 421 | 2114-604-010 | 10P | JE-604-10,PLUG |
| WA 414 | 2114-604-011 | 11P | JE-604-11,PLUG |
| WA 417 | 2114-604-011 | 11P | JE-604-11,PLUG |
| WA 419 | 2114-604-011 | 11P | JE-604-11,PLUG |
| WA 420 | 2114-604-011 | 11P | JE-604-11,PLUG |
| WA 424 | 2114-604-011 | 11P | JE-604-11,PLUG |
| WA 409 | 2121-605-004 | 4P | JE-605-04, SOCKET |

WIRES

| | | | |
|--------|--------------|----|-----------------|
| CN 425 | 2141-010-013 | 4P | 1533#26,650m/m, |
| H 501 | 2141-010-014 | 1P | 1672#22,250m/m |
| CN416 | 2141-060-012 | 6P | 1007#26,200m/m, |
| H 503 | 2141-010-025 | 1P | 1672#22,165m/m |

MISCELLANEOUS

| | | | |
|--------|--------------|---------------------|-------|
| L 401 | 1451-000-030 | COIL-AF CHOKE | 0.7uH |
| L 402 | 1451-000-030 | COIL-AF CHOKE | 0.7uH |
| L 501 | 1451-000-030 | COIL-AF CHOKE | 0.7uH |
| JK 502 | 1514-060-001 | PIN JACK;6PJW-4105R | |
| JK 501 | 1531-020-381 | TERMINAL-SPEAKER;2P | |

| REF NO. | PART NO | DESCRIPTION |
|--|--------------|-----------------------------------|
| JK 401 | 1531-040-373 | TERMINAL-SPEAKER;4P |
| ⚠ FU 481 | 1541-2R0-013 | FUSE;250V 2A,21GS(5×20mm)Slo-Blo |
| ⚠ FU 482 | 1541-2R0-013 | FUSE;250V 2A,21GS(5×20mm)Slo-Blo |
| ⚠ FU 481 | 1543-2R0-001 | FUSE;250V T2L,21GL(5×20mm)Slo-Blo |
| ⚠ FU 482 | 1543-2R0-001 | FUSE;250V T2L,21GL(5×20mm)Slo-Blo |
| FH 481 | 1551-000-011 | HOLDER-FUSE;5φ |
| FH 482 | 1551-000-011 | HOLDER-FUSE;5φ |
| FH 483 | 1551-000-011 | HOLDER-FUSE;5φ |
| FH 484 | 1551-000-011 | HOLDER-FUSE;5φ |
| VR 401 | 1731-102-006 | VR-SEMI;1kohm |
| VR 402 | 1731-102-006 | VR-SEMI;1kohm |
| VR 501 | 1731-102-006 | VR-SEMI;1kohm |
| P 551 | 1782-000-001 | POSISTOR;P42T8D100B04 |
| 0112-011-150 REAR AMP P.C.BOARD | | |

| TRANSISTORS | | | | |
|-------------|--------------|-----------------------|-----|--|
| ⚠ Q 637 | 1241-524-001 | POWER 2SC5242-R(130W) | NPN | |
| ⚠ Q 638 | 1241-524-001 | POWER 2SC5242-R(130W) | NPN | |
| ⚠ Q 639 | 1242-196-001 | POWER 2SA1962-R(130W) | PNP | |
| ⚠ Q 640 | 1242-196-001 | POWER 2SA1962-R(130W) | PNP | |
| ⚠ Q 607 | 1243-319-001 | KTC3198-GR | NPN | |
| Q 608 | 1243-319-001 | KTC3198-GR | NPN | |
| Q 601 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 602 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 603 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 604 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 605 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 606 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 615 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 616 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 627 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 628 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 681 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 682 | 1243-320-001 | KTC3200-GR | NPN | |
| Q 619 | 1243-326-001 | KTC3206-Y | NPN | |
| Q 620 | 1243-326-001 | KTC3206-Y | NPN | |
| Q 623 | 1243-326-001 | KTC3206-Y | NPN | |
| Q 624 | 1243-326-001 | KTC3206-Y | NPN | |
| Q 629 | 1243-326-001 | KTC3206-Y | NPN | |
| Q 630 | 1243-326-001 | KTC3206-Y | NPN | |
| Q 625 | 1243-437-001 | KTC4370-Y | NPN | |
| Q 626 | 1243-437-001 | KTC4370-Y | NPN | |
| Q 635 | 1243-437-001 | KTC4370-Y | NPN | |
| Q 636 | 1243-437-001 | KTC4370-Y | NPN | |
| Q 617 | 1244-124-002 | KTA1024-Y | PNP | |
| Q 618 | 1244-124-002 | KTA1024-Y | PNP | |
| Q 621 | 1244-124-002 | KTA1024-Y | PNP | |
| Q 622 | 1244-124-002 | KTA1024-Y | PNP | |
| Q 631 | 1244-124-002 | KTA1024-Y | PNP | |
| Q 632 | 1244-124-002 | KTA1024-Y | PNP | |
| Q 611 | 1244-128-001 | KTA1268-GR | PNP | |
| Q 612 | 1244-128-001 | KTA1268-GR | PNP | |
| Q 613 | 1244-128-001 | KTA1268-GR | PNP | |
| Q 614 | 1244-128-001 | KTA1268-GR | PNP | |
| Q 683 | 1244-128-001 | KTA1268-GR | PNP | |
| Q 633 | 1244-169-001 | KTA1659-Y | PNP | |
| Q 634 | 1244-169-001 | KTA1659-Y | PNP | |

| FET | | | | |
|-------|--------------|---------------|------|--|
| Q 609 | 1248-000-004 | FET;2SK373-GR | N-CH | |
| Q 610 | 1248-000-004 | FET;2SK373-GR | N-CH | |

| DIODES(REAR AMP) | | | | |
|------------------|--------------|--------------|--|--|
| D 601 | 1252-000-017 | 1SS133 , SW. | | |
| D 602 | 1252-000-017 | 1SS133 , SW. | | |
| D 603 | 1252-000-017 | 1SS133 , SW. | | |
| D 604 | 1252-000-017 | 1SS133 , SW. | | |

| REF NO. | PART NO | DESCRIPTION |
|---------|--------------|-----------------|
| D 681 | 1252-000-017 | 1SS133 , SW. |
| D 682 | 1252-000-017 | 1SS133 , SW. |
| D 683 | 1252-000-017 | 1SS133 , SW. |
| D 684 | 1252-000-017 | 1SS133 , SW. |
| D 685 | 1252-000-017 | 1SS133 , SW. |
| ⚠ D 691 | 1253-000-006 | BU6-04F, BRIDGE |

| RESISTORS(CARBON) | | | | |
|-------------------|--------------|------|---------|--|
| R 677 | 1742-100-721 | 1/8W | 10W-J | |
| R 678 | 1742-100-721 | 1/8W | 10W-J | |
| R 650 | 1742-102-721 | 1/8W | 1KW-J | |
| R 691 | 1742-103-721 | 1/8W | 10KW-J | |
| R 697 | 1742-103-721 | 1/8W | 10KW-J | |
| R 649 | 1742-102-721 | 1/8W | 1KW-J | |
| R 698 | 1742-103-721 | 1/8W | 10KW-J | |
| R 683 | 1742-153-721 | 1/8W | 15KW-J | |
| R 684 | 1742-153-721 | 1/8W | 15KW-J | |
| R 685 | 1742-183-721 | 1/8W | 18KW-J | |
| R 686 | 1742-183-721 | 1/8W | 18KW-J | |
| R 613 | 1742-271-721 | 1/8W | 270W-J | |
| R 614 | 1742-271-721 | 1/8W | 270W-J | |
| R 615 | 1742-273-721 | 1/8W | 27KW-J | |
| R 616 | 1742-273-721 | 1/8W | 27KW-J | |
| R 601 | 1742-331-721 | 1/8W | 330W-J | |
| R 602 | 1742-331-721 | 1/8W | 330W-J | |
| R 603 | 1742-393-721 | 1/8W | 39KW-J | |
| R 604 | 1742-393-721 | 1/8W | 39KW-J | |
| R 653 | 1742-472-721 | 1/8W | 4.7KW-J | |
| R 654 | 1742-472-721 | 1/8W | 4.7KW-J | |
| R 651 | 1742-561-721 | 1/8W | 560W-J | |
| R 652 | 1742-561-721 | 1/8W | 560W-J | |
| R 655 | 1742-562-721 | 1/8W | 5.6KW-J | |
| R 656 | 1742-562-721 | 1/8W | 5.6KW-J | |
| R 681 | 1744-102-731 | 1/4W | 1KW-J | |
| R 682 | 1744-102-731 | 1/4W | 1KW-J | |
| R 687 | 1744-102-731 | 1/4W | 1KW-J | |
| R 688 | 1744-102-731 | 1/4W | 1KW-J | |
| R 605 | 1744-152-731 | 1/4W | 1.5KW-J | |
| R 606 | 1744-152-731 | 1/4W | 1.5KW-J | |
| R 607 | 1744-152-731 | 1/4W | 1.5KW-J | |
| R 608 | 1744-152-731 | 1/4W | 1.5KW-J | |
| R 637 | 1744-153-731 | 1/4W | 15KW-J | |
| R 638 | 1744-153-731 | 1/4W | 15KW-J | |
| R 639 | 1744-153-731 | 1/4W | 15KW-J | |
| R 640 | 1744-153-731 | 1/4W | 15KW-J | |
| R 619 | 1744-202-731 | 1/4W | 2KW-J | |
| R 620 | 1744-202-731 | 1/4W | 2KW-J | |
| R 609 | 1744-331-731 | 1/4W | 330W-J | |
| R 610 | 1744-331-731 | 1/4W | 330W-J | |
| R 611 | 1744-331-731 | 1/4W | 330W-J | |
| R 612 | 1744-331-731 | 1/4W | 330W-J | |
| R 617 | 1744-393-731 | 1/4W | 39KW-J | |
| R 618 | 1744-393-731 | 1/4W | 39KW-J | |

| RESISTORS(FUSIBLE) | | | | |
|--------------------|--------------|------|--------|--|
| ⚠ R 673 | 1761-100-731 | 1/4W | 10W-J | |
| ⚠ R 674 | 1761-100-731 | 1/4W | 10W-J | |
| ⚠ R 657 | 1761-101-731 | 1/4W | 100W-J | |
| ⚠ R 658 | 1761-101-731 | 1/4W | 100W-J | |
| ⚠ R 659 | 1761-101-731 | 1/4W | 100W-J | |
| ⚠ R 660 | 1761-101-731 | 1/4W | 100W-J | |
| ⚠ R 661 | 1761-150-731 | 1/4W | 15W-J | |
| ⚠ R 662 | 1761-150-731 | 1/4W | 15W-J | |
| ⚠ R 663 | 1761-150-731 | 1/4W | 15W-J | |
| ⚠ R 664 | 1761-150-731 | 1/4W | 15W-J | |
| ⚠ R 633 | 1761-151-731 | 1/4W | 150W-J | |
| ⚠ R 634 | 1761-151-731 | 1/4W | 150W-J | |
| ⚠ R 635 | 1761-151-731 | 1/4W | 150W-J | |
| ⚠ R 636 | 1761-151-731 | 1/4W | 150W-J | |

| REF NO. | PART NO | DESCRIPTION | |
|---------|--------------|-------------|--------|
| ▲ R 641 | 1761-151-731 | 1/4W | 150W-J |
| ▲ R 642 | 1761-151-731 | 1/4W | 150W-J |
| ▲ R 643 | 1761-151-731 | 1/4W | 150W-J |
| ▲ R 644 | 1761-151-731 | 1/4W | 150W-J |
| ▲ R 665 | 1761-2R2-731 | 1/4W | 2.2W-J |
| ▲ R 666 | 1761-2R2-731 | 1/4W | 2.2W-J |
| ▲ R 667 | 1761-2R2-731 | 1/4W | 2.2W-J |
| ▲ R 621 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 622 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 623 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 624 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 625 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 626 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 627 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 628 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 629 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 630 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 631 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 632 | 1761-561-731 | 1/4W | 560W-J |
| ▲ R 669 | 1761-820-731 | 1/4W | 82W-J |
| ▲ R 670 | 1761-820-731 | 1/4W | 82W-J |

RESISTORS(METAL)

| | | | |
|---------|--------------|------|-------|
| ▲ R 675 | 1771-100-751 | 1W | 10W-J |
| ▲ R 676 | 1771-100-751 | 1W | 10W-J |
| ▲ R 645 | 1761-100-731 | 1/4W | 10W-J |
| ▲ R 646 | 1761-100-731 | 1/4W | 10W-J |
| ▲ R 647 | 1761-100-731 | 1/4W | 10W-J |
| ▲ R 648 | 1761-100-731 | 1/4W | 10W-J |

RESISTORS(CEMENT)

| | | | |
|---------|--------------|----|---------|
| ▲ R 671 | 1775-R22-782 | 5W | 0.22W-J |
| ▲ R 672 | 1775-R22-782 | 5W | 0.22W-J |

CAPACITORS

| | | | | |
|-------|--------------|-------|------|-----------|
| C 609 | 1822-030-311 | CERA | 50V | 3pF-C |
| C 610 | 1822-030-311 | CERA | 50V | 3pF-C |
| C 611 | 1822-101-772 | CERA | 50V | 100pF-J |
| C 612 | 1822-101-772 | CERA | 50V | 100pF-J |
| C 603 | 1822-680-712 | CERA | 50V | 68pF-J |
| C 604 | 1822-680-712 | CERA | 50V | 68pF-J |
| C 621 | 1861-471-811 | ELECT | 50V | 470uF-M |
| C 622 | 1861-471-811 | ELECT | 50V | 470uF-M |
| C 623 | 1861-471-811 | ELECT | 50V | 470uF-M |
| C 624 | 1861-471-811 | ELECT | 50V | 470uF-M |
| C 691 | 1861-682-800 | ELECT | 50V | 6800uF-M |
| C 692 | 1861-682-800 | ELECT | 50V | 6800uF-M |
| C 613 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 614 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 615 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 616 | 1862-100-017 | ELECT | 100V | 10uF-M |
| C 696 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 627 | 1862-220-604 | ELECT | 25V | 22uF-M |
| C 628 | 1862-220-604 | ELECT | 25V | 22uF-M |
| C 605 | 1862-101-605 | ELECT | 25V | 100uF-M |
| C 606 | 1862-101-605 | ELECT | 25V | 100uF-M |
| C 601 | 1862-100-604 | ELECT | 25V | 10uF-M |
| C 602 | 1862-100-604 | ELECT | 25V | 10uF-M |
| C 607 | 1862-221-317 | ELECT | 10V | 220uF-M |
| C 608 | 1862-221-317 | ELECT | 10V | 220uF-M |
| C 617 | 1876-104-811 | MYLAR | 100V | 0.1uF-K |
| C 618 | 1876-104-811 | MYLAR | 100V | 0.1uF-K |
| C 619 | 1876-104-811 | MYLAR | 100V | 0.1uF-K |
| C 620 | 1876-104-811 | MYLAR | 100V | 0.1uF-K |
| C 681 | 1876-683-811 | MYLAR | 100V | 0.068uF-K |
| C 682 | 1876-683-811 | MYLAR | 100V | 0.068uF-K |
| C 693 | 1879-103-004 | FILM | 400V | 0.01uF-K |
| C 694 | 1879-103-004 | FILM | 400V | 0.01uF-K |
| C 695 | 1879-103-004 | FILM | 400V | 0.01uF-K |

| REF NO. | PART NO | DESCRIPTION | |
|------------------------------------|--------------|----------------------|----------------|
| WAFERS | | | |
| WA 601 | 2111-023-002 | 2P | 5267-02A |
| WA 602 | 2111-023-002 | 2P | 5267-02A |
| WA 625 | 2111-023-004 | 4P | 5267-04A |
| WA 603 | 2111-029-003 | 3P | JE202-1T-03Y |
| WAFERS | | | |
| WA 601 | 2111-023-002 | 2P | 5267-02A |
| WA 602 | 2111-023-002 | 2P | 5267-02A |
| WA 625 | 2111-023-004 | 4P | 5267-04A |
| WA 603 | 2111-029-003 | 3P | JE202-1T-03Y |
| MISCELLANEOUS | | | |
| CN 606 | 2141-010-015 | WIRE 4P | 1007#26,750m/m |
| L 601 | 1451-000-030 | COIL-AF CHOKE | |
| L 602 | 1451-000-030 | COIL-AF CHOKE | |
| JK 601 | 1531-040-373 | TERMINAL-SPEAKER;4P | |
| VR 601 | 1731-102-006 | VR-SEMI | 1kohm |
| VR 602 | 1731-102-006 | VR-SEMI | 1kohm |
| 0112-011-1512 SUB P.C.BOARD | | | |
| INTEGRATED CIRCUITS | | | |
| ▲ IC 981 | 1217-780-002 | IC 7805 | REGULATOR |
| TRANSISTORS | | | |
| Q 985 | 1243-103-004 | KRC103M | NPN |
| Q 984 | 1243-103-004 | KRC103M | NPN |
| Q 981 | 1244-128-001 | KTA1268-GR | PNP |
| Q 983 | 1243-319-001 | KTC3198-GR | NPN |
| Q 982 | 1243-319-001 | KTC3198-GR | NPN |
| DIODES | | | |
| D 987 | 1252-000-017 | 1SS133 , | SW . |
| D 988 | 1252-000-017 | 1SS133 , | SW . |
| D 992 | 1252-000-017 | 1SS133 , | SW . |
| ▲ D 981 | 1252-001-004 | IN4004 1A/400V, RECT | |
| ▲ D 982 | 1252-001-004 | IN4004 1A/400V, RECT | |
| ▲ D 983 | 1252-001-004 | IN4004 1A/400V, RECT | |
| ▲ D 984 | 1252-001-004 | IN4004 1A/400V, RECT | |
| ▲ D 985 | 1252-001-004 | IN4004 1A/400V, RECT | |
| ▲ D 986 | 1252-001-004 | IN4004 1A/400V, RECT | |
| ▲ D 989 | 1252-001-004 | IN4004 1A/400V, RECT | |
| D 990 | 1252-001-004 | IN4004 1A/400V, RECT | |
| D 991 | 1254-300-001 | ZENER 30V | |
| D 996 | 1254-4R7-025 | ZENER 4.7V | |
| D 994 | 1254-7R5-001 | ZENER 7.5V | |
| RESISTORS(CARBON) | | | |
| R 983 | 1742-102-721 | 1/8W | 1KW-J |
| R 990 | 1742-103-721 | 1/8W | 10KW-J |
| R 994 | 1742-103-721 | 1/8W | 10KW-J |
| R 991 | 1742-151-721 | 1/8W | 150W-J |
| R 986 | 1742-222-721 | 1/8W | 2.2KW-J |
| R 984 | 1742-272-721 | 1/8W | 2.7KW-J |
| R 992 | 1742-471-721 | 1/8W | 470W-J |
| R 988 | 1744-1R0-731 | 1/4W | 1W-J |
| R 989 | 1744-1R0-731 | 1/4W | 1W-J |
| R 982 | 1744-222-731 | 1/4W | 2.2KW-J |
| R 987 | 1744-561-731 | 1/4W | 560W-J |
| R 993 | 1742-682-721 | 1/8W | 6.8KW-J |
| RESISTORS(FUSIBLE) | | | |
| ▲ R 985 | 1761-220-731 | 1/4W | 22W-J |
| ▲ R 981 | 1761-4R7-731 | 1/4W | 4.7W-J |

| REF NO. | PART NO | DESCRIPTION | | | REF NO. | PART NO | DESCRIPTION | | | | | | | | |
|---|--------------|--------------------------------------|--------------|------------|--------------------------|--------------|-------------|---------|--|--|--|--|--|--|--|
| CAPACITORS | | | | | | | | | | | | | | | |
| C 983 | 1822-103-822 | CERA/RA | 50V | 103pF-K | Q 112 | 1243-101-018 | KRC101M | NPN | | | | | | | |
| C 997 | 1822-103-822 | CERA/RA | 50V | 103pF-K | Q 116 | 1243-101-018 | KRC101M | NPN | | | | | | | |
| C 998 | 1822-103-822 | CERA/RA | 50V | 103pF-K | Q 117 | 1243-101-018 | KRC101M | PNP | | | | | | | |
| C 999 | 1822-103-822 | CERA/RA | 50V | 103pF-K | Q 101 | 1243-130-003 | KTD1302 | PNP | | | | | | | |
| C 988 | 1832-473-002 | CERA/AX | 50V | 0.047uF-Z | Q 102 | 1243-130-003 | KTD1302 | NPN | | | | | | | |
| C 985 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z | Q 109 | 1243-130-003 | KTD1302 | NPN | | | | | | | |
| C 993 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z | Q 110 | 1243-130-003 | KTD1302 | NPN | | | | | | | |
| C 994 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z | Q 113 | 1243-130-003 | KTD1302 | NPN | | | | | | | |
| C 995 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z | Q 114 | 1243-130-003 | KTD1302 | NPN | | | | | | | |
| C 996 | 1832-104-002 | CERA/AX | 50V | 0.1uF-Z | Q 103 | 1244-126-004 | KTA1266-GR | NPN | | | | | | | |
| ▲ C 982 | 1825-000-010 | AC | 250V | 0.0047uF-M | Q 111 | 1244-126-004 | KTA1266-GR | NPN | | | | | | | |
| ▲ C 981 | 1825-104-000 | AC | 275V | 0.1uF | Q 115 | 1244-126-004 | KTA1266-GR | NPN | | | | | | | |
| C 992 | 1861-101-706 | ELELT | 35V | 100uF-M | Q 118 | 1244-126-004 | KTA1266-GR | NPN | | | | | | | |
| C 984 | 1861-471-811 | ELECT | 50V | 470uF-M | DIODE | | | | | | | | | | |
| C 989 | 1861-471-811 | ELECT | 50V | 470uF-M | D 101 | 1252-000-017 | 1SS133, SW. | | | | | | | | |
| C 990 | 1861-471-811 | ELECT | 50V | 470uF-M | RESISTORS(CARBAN) | | | | | | | | | | |
| C 986 | 1862-010-804 | ELECT | 50V | 1.0uF-M | R 133 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| C 987 | 1862-100-804 | ELECT | 50V | 10uF-M | R 134 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| C 991 | 1862-470-814 | ELECT | 50V | 47uF-M | R 137 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| WAFERS | | | | | | | | | | | | | | | |
| WA 987 | 2111-023-003 | 5267-03A,3P | | | R 138 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| WA 986 | 2111-023-007 | 5267-07A,7P | | | R 157 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| WA 983 | 2111-026-002 | 2P,35328-0210 | | | R 158 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| WA 985 | 2111-028-002 | 2P,JE202A-1T-02R | | | R 165 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| WA 981 | 2111-027-002 | JE202A-1T-02(3-2) | | | R 166 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| MISCELLANEOUS | | | | | | | | | | | | | | | |
| ▲ FU 981 | 1541-6R3-125 | FUSE;125V,6.3A,21GS,(5X20mm),Slo-Blo | BK | | R 173 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| ▲ FU 981 | 1543-4R0-001 | FUSE;125V,T4L,21GL,(5X20mm),Slo-Blo | IB/AB | | R 174 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| ▲ T 981 | 1411-000-004 | TRANS-SUB;AVR-45/65 | | | R 177 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| ▲ T 981 | 1411-000-005 | TRANS-SUB;AVR-45/65(RDS) | | | R 178 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| FH 981 | 1551-000-011 | HOLDER-FUSE | | | R 181 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| FH 982 | 1551-000-011 | HOLDER-FUSE | | | R 182 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| ▲ AC 981 | 1561-000-005 | AC OUTLET S2-764T-200 | | | R 213 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| ▲ AC 981 | 1561-000-006 | AC OUTLET S2-762T-206 | | | R 214 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| ▲ R 995 | 1783-335-001 | COMPOSITION,1/2,3.3M | | | R 217 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| ▲ RL 981 | 2022-000-002 | RELAY;DH12D1-O(M),DEC | | | R 218 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| H 20 | 2141-010-016 | WIRE ASSY 1P 1007#22.200m/m | | | R 221 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| H 21 | 2141-020-114 | WIRE ASSY 1P 1007#22.150m/m | | | R 222 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| 0112-011-152 AUDIO INPUT P.C.BOARD | | | | | | | | | | | | | | | |
| INTEGRATED CIRCUITS | | | | | | | | | | | | | | | |
| IC 103 | 1211-455-001 | IC NJM4558L OP AMP | | | R 224 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| IC 104 | 1211-455-001 | IC NJM4558L OP AMP | | | R 245 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| IC 107 | 1211-455-001 | IC NJM4558L OP AMP | | | R 246 | 1742-101-721 | 1/8W | 100W-J | | | | | | | |
| IC 108 | 1211-455-001 | IC NJM4558L OP AMP | | | R 261 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 110 | 1211-455-001 | IC NJM4558L OP AMP | | | R 262 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 111 | 1211-455-001 | IC NJM4558L OP AMP | | | R 263 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 112 | 1211-455-001 | IC NJM4558L OP AMP | | | R 279 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 115 | 1211-455-001 | IC NJM4558L OP AMP | | | R 280 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 116 | 1211-455-001 | IC NJM4558L OP AMP | | | R 281 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 118 | 1211-455-001 | IC NJM4558L OP AMP | | | R 285 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 119 | 1211-455-001 | IC NJM4558L OP AMP | | | R 286 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 120 | 1211-455-001 | IC NJM4558L OP AMP | | | R 287 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 105 | 1212-731-002 | IC NJU7311 ANALOG SW | | | R 291 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 113 | 1212-731-002 | IC NJU7311 ANALOG SW | | | R 292 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 101 | 1212-731-003 | IC NJU7312 ANALOG SW | | | R 293 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 102 | 1212-731-003 | IC NJU7312 ANALOG SW | | | R 297 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 106 | 1212-753-001 | IC LC7536 ELEC Volume | | | R 298 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 109 | 1212-753-001 | IC LC7536 ELEC Volume | | | R 299 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 114 | 1212-753-001 | IC LC7536 ELEC Volume | | | R 303 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| IC 117 | 1212-753-001 | IC LC7536 ELEC Volume | | | R 304 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| TRANSISTORS | | | | | | | | | | | | | | | |
| Q 104 | 1243-101-018 | KRC101M | NPN | | R 305 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| | | | | | R 189 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| | | | | | R 190 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| | | | | | R 229 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| | | | | | R 230 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| | | | | | R 253 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| | | | | | R 254 | 1742-102-721 | 1/8W | 1KW-J | | | | | | | |
| | | | | | R 227 | 1742-822-721 | 1/8W | 8.2KW-J | | | | | | | |

| REF NO. | PART NO | DESCRIPTION | | REF NO. | PART NO | DESCRIPTION | |
|---------|--------------|-------------|---------|------------|--------------|-------------|-------------|
| R 228 | 1742-822-721 | 1/8W | 8.2KW-J | R 208 | 1742-224-721 | 1/8W | 220KW-J |
| R 251 | 1742-822-721 | 1/8W | 8.2KW-J | R 101 | 1742-331-721 | 1/8W | 330W-J |
| R 252 | 1742-822-721 | 1/8W | 8.2KW-J | R 102 | 1742-331-721 | 1/8W | 330W-J |
| R 311 | 1742-103-721 | 1/8W | 10KW-J | R 105 | 1742-331-721 | 1/8W | 330W-J |
| R 312 | 1742-103-721 | 1/8W | 10KW-J | R 106 | 1742-331-721 | 1/8W | 330W-J |
| R 161 | 1742-152-721 | 1/8W | 1.5KW-J | R 109 | 1742-331-721 | 1/8W | 330W-J |
| R 162 | 1742-152-721 | 1/8W | 1.5KW-J | R 110 | 1742-331-721 | 1/8W | 330W-J |
| R 169 | 1742-152-721 | 1/8W | 1.5KW-J | R 113 | 1742-331-721 | 1/8W | 330W-J |
| R 170 | 1742-152-721 | 1/8W | 1.5KW-J | R 114 | 1742-331-721 | 1/8W | 330W-J |
| R 195 | 1742-183-721 | 1/8W | 18KW-J | R 117 | 1742-331-721 | 1/8W | 330W-J |
| R 235 | 1742-183-721 | 1/8W | 18KW-J | R 118 | 1742-331-721 | 1/8W | 330W-J |
| R 259 | 1742-183-721 | 1/8W | 18KW-J | R 193 | 1742-331-721 | 1/8W | 330W-J |
| R 310 | 1742-183-721 | 1/8W | 18KW-J | R 194 | 1742-331-721 | 1/8W | 330W-J |
| R 211 | 1742-183-721 | 1/8W | 18KW-J | R 233 | 1742-331-721 | 1/8W | 330W-J |
| R 196 | 1742-223-721 | 1/8W | 22KW-J | R 234 | 1742-331-721 | 1/8W | 330W-J |
| R 236 | 1742-223-721 | 1/8W | 22KW-J | R 257 | 1742-331-721 | 1/8W | 330W-J |
| R 260 | 1742-223-721 | 1/8W | 22KW-J | R 258 | 1742-331-721 | 1/8W | 330W-J |
| R 309 | 1742-223-721 | 1/8W | 22KW-J | R 187 | 1742-333-721 | 1/8W | 33KW-J |
| R 103 | 1742-224-721 | 1/8W | 220KW-J | R 188 | 1742-333-721 | 1/8W | 33KW-J |
| R 104 | 1742-224-721 | 1/8W | 220KW-J | R 185 | 1742-473-721 | 1/8W | 47KW-J |
| R 107 | 1742-224-721 | 1/8W | 220KW-J | R 186 | 1742-473-721 | 1/8W | 47KW-J |
| R 108 | 1742-224-721 | 1/8W | 220KW-J | R 225 | 1742-473-721 | 1/8W | 47KW-J |
| R 111 | 1742-224-721 | 1/8W | 220KW-J | R 226 | 1742-473-721 | 1/8W | 47KW-J |
| R 112 | 1742-224-721 | 1/8W | 220KW-J | R 249 | 1742-473-721 | 1/8W | 47KW-J |
| R 115 | 1742-224-721 | 1/8W | 220KW-J | R 250 | 1742-473-721 | 1/8W | 47KW-J |
| R 116 | 1742-224-721 | 1/8W | 220KW-J | R 264 | 1742-473-721 | 1/8W | 47KW-J |
| R 119 | 1742-224-721 | 1/8W | 220KW-J | R 265 | 1742-473-721 | 1/8W | 47KW-J |
| R 120 | 1742-224-721 | 1/8W | 220KW-J | R 266 | 1742-473-721 | 1/8W | 47KW-J |
| R 135 | 1742-224-721 | 1/8W | 220KW-J | R 282 | 1742-473-721 | 1/8W | 47KW-J |
| R 136 | 1742-224-721 | 1/8W | 220KW-J | R 283 | 1742-473-721 | 1/8W | 47KW-J |
| R 139 | 1742-224-721 | 1/8W | 220KW-J | R 284 | 1742-473-721 | 1/8W | 47KW-J |
| R 140 | 1742-224-721 | 1/8W | 220KW-J | R 288 | 1742-473-721 | 1/8W | 47KW-J |
| R 159 | 1742-224-721 | 1/8W | 220KW-J | R 289 | 1742-473-721 | 1/8W | 47KW-J |
| R 160 | 1742-224-721 | 1/8W | 220KW-J | R 290 | 1742-473-721 | 1/8W | 47KW-J |
| R 163 | 1742-224-721 | 1/8W | 220KW-J | R 294 | 1742-473-721 | 1/8W | 47KW-J |
| R 164 | 1742-224-721 | 1/8W | 220KW-J | R 295 | 1742-473-721 | 1/8W | 47KW-J |
| R 167 | 1742-224-721 | 1/8W | 220KW-J | R 296 | 1742-473-721 | 1/8W | 47KW-J |
| R 168 | 1742-224-721 | 1/8W | 220KW-J | R 300 | 1742-473-721 | 1/8W | 47KW-J |
| R 171 | 1742-224-721 | 1/8W | 220KW-J | R 301 | 1742-473-721 | 1/8W | 47KW-J |
| R 172 | 1742-224-721 | 1/8W | 220KW-J | R 302 | 1742-473-721 | 1/8W | 47KW-J |
| R 175 | 1742-224-721 | 1/8W | 220KW-J | R 306 | 1742-473-721 | 1/8W | 47KW-J |
| R 176 | 1742-224-721 | 1/8W | 220KW-J | R 307 | 1742-473-721 | 1/8W | 47KW-J |
| R 179 | 1742-224-721 | 1/8W | 220KW-J | R 308 | 1742-473-721 | 1/8W | 47KW-J |
| R 180 | 1742-224-721 | 1/8W | 220KW-J | R 313 | 1742-682-721 | 1/8W | 6.8KW-J |
| R 183 | 1742-224-721 | 1/8W | 220KW-J | R 314 | 1742-682-721 | 1/8W | 6.8KW-J |
| R 184 | 1742-224-721 | 1/8W | 220KW-J | CAPACITORS | | | |
| R 191 | 1742-224-721 | 1/8W | 220KW-J | C 199 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 192 | 1742-224-721 | 1/8W | 220KW-J | C 200 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 215 | 1742-224-721 | 1/8W | 220KW-J | C 203 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 216 | 1742-224-721 | 1/8W | 220KW-J | C 204 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 219 | 1742-224-721 | 1/8W | 220KW-J | C 211 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 220 | 1742-224-721 | 1/8W | 220KW-J | C 212 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 223 | 1742-224-721 | 1/8W | 220KW-J | C 213 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 224 | 1742-224-721 | 1/8W | 220KW-J | C 214 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 231 | 1742-224-721 | 1/8W | 220KW-J | C 215 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 232 | 1742-224-721 | 1/8W | 220KW-J | C 216 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 239 | 1742-224-721 | 1/8W | 220KW-J | C 217 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 240 | 1742-224-721 | 1/8W | 220KW-J | C 218 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 243 | 1742-224-721 | 1/8W | 220KW-J | C 219 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 244 | 1742-224-721 | 1/8W | 220KW-J | C 220 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 247 | 1742-224-721 | 1/8W | 220KW-J | C 221 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| R 248 | 1742-224-721 | 1/8W | 220KW-J | C 101 | 1832-121-712 | CERA/AX | 50V 120pF-J |
| R 255 | 1742-224-721 | 1/8W | 220KW-J | C 102 | 1832-121-712 | CERA/AX | 50V 120pF-J |
| R 256 | 1742-224-721 | 1/8W | 220KW-J | C 103 | 1832-121-712 | CERA/AX | 50V 120pF-J |
| R 155 | 1742-224-721 | 1/8W | 220KW-J | C 104 | 1832-121-712 | CERA/AX | 50V 120pF-J |
| R 156 | 1742-224-721 | 1/8W | 220KW-J | C 105 | 1832-121-712 | CERA/AX | 50V 120pF-J |
| R 199 | 1742-224-721 | 1/8W | 220KW-J | C 106 | 1832-121-712 | CERA/AX | 50V 120pF-J |
| R 200 | 1742-224-721 | 1/8W | 220KW-J | C 107 | 1832-121-712 | CERA/AX | 50V 120pF-J |

| REF NO. | PART NO | DESCRIPTION | | | | REF NO. | PART NO | DESCRIPTION | | | |
|---------|--------------|-------------|-----|---------|--|---------|--------------|--------------------------------------|-----------|---------|--|
| C 108 | 1832-121-712 | CERA/AX | 50V | 120pF-J | | C 171 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | |
| C 109 | 1832-121-712 | CERA/AX | 50V | 120pF-J | | C 172 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | |
| C 110 | 1832-121-712 | CERA/AX | 50V | 120pF-J | | | | WAFERS | | | |
| C 173 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | WA 101 | 2111-023-003 | 3P | 5267-03A | | |
| C 174 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | HU 112 | 2121-605-007 | 7P | JE-605-07 | | |
| C 175 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | HU 115 | 2121-605-007 | 7P | JE-605-07 | | |
| C 176 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | HU 116 | 2121-605-007 | 7P | JE-605-07 | | |
| C 177 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | HU 113 | 2121-605-009 | 9P | JE-605-09 | | |
| C 178 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | HU 114 | 2121-605-011 | 11P | JE-605-11 | | |
| C 179 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | HU 117 | 2121-605-011 | 11P | JE-605-11 | | |
| C 180 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | HU 121 | 2121-605-011 | 11P | JE-605-11 | | |
| C 181 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | | | MISCELLANEOUS | | | |
| C 182 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | CN 107 | 2141-090-050 | WIRE 9P1007#26,200m/m | | | |
| C 183 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | JP 101 | 1514-000-021 | JACK-RCA;4PJW-4104R | | | |
| C 184 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | JP 102 | 1514-000-021 | JACK-RCA;4PJW-4104R | | | |
| C 188 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | JP 103 | 1514-060-001 | PIN JACK;6PJW-4105R | | | |
| C 189 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | | | 0112-011-1532 FRONT P.C.BOARD | | | |
| C 190 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | | | INTEGRATED CIRCUITS | | | |
| C 194 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | IC 901 | 1216-828-141 | IC CXP828P60Q-141C MAIN MI-COM | | | |
| C 195 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | IC 902 | 1211-455-001 | IC NJM4558L OP AMP | | | |
| C 196 | 1832-471-712 | CERA/AX | 50V | 470pF-J | | | | TRANSISTORS | | | |
| C 135 | 1862-100-804 | ELECT | 50V | 10uF-M | | Q 902 | 1243-103-004 | KRC103M | | NPN | |
| C 136 | 1862-100-804 | ELECT | 50V | 10uF-M | | Q 903 | 1243-103-004 | KRC103M | | NPN | |
| C 159 | 1862-100-804 | ELECT | 50V | 10uF-M | | Q 934 | 1243-104-014 | KRC104M | | NPN | |
| C 160 | 1862-100-804 | ELECT | 50V | 10uF-M | | Q 921 | 1243-319-001 | KTC3198-GR | | NPN | |
| C 169 | 1862-100-804 | ELECT | 50V | 10uF-M | | Q 932 | 1243-319-001 | KTC3198-GR | | NPN | |
| C 170 | 1862-100-804 | ELECT | 50V | 10uF-M | | Q 901 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 197 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 904 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 198 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 905 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 201 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 906 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 202 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 907 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 205 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 908 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 206 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 909 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 209 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 910 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 210 | 1862-470-604 | ELECT | 25V | 47uF-M | | Q 911 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 117 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 912 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 118 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 913 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 119 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 914 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 120 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 914 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 129 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 915 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 130 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 916 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 131 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 917 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 132 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 918 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 133 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 919 | 1243-319-007 | KTC3199-GR | | NPN | |
| C 134 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 936 | 1244-102-003 | KRA102M | | PNP | |
| C 137 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 933 | 1244-104-011 | KRA104M | | PNP | |
| C 138 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | Q 935 | 1244-104-011 | KRA104M | | PNP | |
| C 145 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | DIODES | | | |
| C 146 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 901 | 1252-000-017 | 1SS133 , | SW | | |
| C 147 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 902 | 1252-000-017 | 1SS133 , | SW | | |
| C 148 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 903 | 1252-000-017 | 1SS133 , | SW | | |
| C 149 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 904 | 1252-000-017 | 1SS133 , | SW | | |
| C 150 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 905 | 1252-000-017 | 1SS133 , | SW | | |
| C 151 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 906 | 1252-000-017 | 1SS133 , | SW | | |
| C 152 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 907 | 1252-000-017 | 1SS133 , | SW | | |
| C 153 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 908 | 1252-000-017 | 1SS133 , | SW | | |
| C 154 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 909 | 1252-000-017 | 1SS133 , | SW | | |
| C 155 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 986 | 1252-000-017 | 1SS133 , | SW | | |
| C 156 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 910 | 1252-000-017 | 1SS133 , | SW | | |
| C 157 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 911 | 1252-000-017 | 1SS133 , | SW | | |
| C 158 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 912 | 1252-000-017 | 1SS133 , | SW | | |
| C 161 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | D 913 | 1252-000-017 | 1SS133 , | SW | | |
| C 162 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | - 33 - | | | |
| C 163 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | | | | |
| C 164 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | | | | |
| C 165 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | | | | |
| C 166 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | | | | |
| C 167 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | | | | |
| C 168 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M | | | | | | | |

| REF NO. | PART NO | DESCRIPTION | REF NO. | PART NO | DESCRIPTION | |
|--------------------------|--------------|----------------|-------------------|--------------|--------------------------------|--|
| D 915 | 1252-000-017 | 1SS133 , SW | R 982 | 1742-393-721 | 1/8W 39KW-J | |
| D 917 | 1252-000-017 | 1SS133 , SW | R 983 | 1742-393-721 | 1/8W 39KW-J | |
| D 918 | 1252-000-017 | 1SS133 , SW | R 941 | 1742-272-721 | 1/8W 2.7KW-J | |
| D 919 | 1252-000-017 | 1SS133 , SW | R 942 | 1742-272-721 | 1/8W 2.7KW-J | |
| D 920 | 1252-000-017 | 1SS133 , SW | R 962 | 1744-331-731 | 1/4W 330W-J | |
| D 940 | 1252-000-017 | 1SS133 , SW | R 980 | 1744-4R7-731 | 1/4W 4.7W-J | |
| D 964 | 1252-000-017 | 1SS133 , SW | R 981 | 1744-4R7-731 | 1/4W 4.7W-J | |
| D 985 | 1252-000-017 | 1SS133 , SW | CAPACITORS | | | |
| D 986 | 1252-000-017 | 1SS133 , SW | C 979 | 1822-104-822 | CERA/RA 50V 0.1uF-K | |
| D 987 | 1252-000-017 | 1SS133 , SW | C 980 | 1822-104-822 | CERA/RA 50V 0.1uF-K | |
| OPT2 | 1252-000-017 | 1SS133 , SW | C 901 | 1832-220-772 | CERA/AX 50V 22PF-J | |
| OPT5 | 1252-000-017 | 1SS133 , SW | C 902 | 1832-220-772 | CERA/AX 50V 22PF-J | |
| LED 902 | 1271-000-037 | LED SLR-342VR3 | C 910 | 1832-102-772 | CERA/AX 50V 0.001uF-J | |
| RESISTORS(CARBON) | | | | | | |
| R 976 | 1742-100-721 | 1/8W 10W-J | C 911 | 1832-102-772 | CERA/AX 50V 0.001uF-J | |
| R 977 | 1742-100-721 | 1/8W 10W-J | C 912 | 1832-102-772 | CERA/AX 50V 0.001uF-J | |
| R 902 | 1742-102-721 | 1/8W 1KW-J | C 913 | 1832-102-772 | CERA/AX 50V 0.001uF-J | |
| R 961 | 1742-102-721 | 1/8W 1KW-J | C 954 | 1832-101-712 | CERA/AX 50V 100PF-J | |
| R 999 | 1742-102-721 | 1/8W 1KW-J | C 903 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 906 | 1742-103-721 | 1/8W 10KW-J | C 905 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 907 | 1742-103-721 | 1/8W 10KW-J | C 907 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 908 | 1742-103-721 | 1/8W 10KW-J | C 909 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 909 | 1742-103-721 | 1/8W 10KW-J | C 914 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 925 | 1742-103-721 | 1/8W 10KW-J | C 915 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 910 | 1742-104-721 | 1/8W 100KW-J | C 918 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 911 | 1742-104-721 | 1/8W 100KW-J | C 922 | 1832-104-002 | CERA/AX 50V 0.1uF-Z | |
| R 905 | 1742-105-721 | 1/8W 1MW-J | C 920 | 1832-121-712 | CERA/AX 50V 20pF-J | |
| R 953 | 1742-182-721 | 1/8W 1.8KW-J | C 908 | 1832-471-712 | CERA/AX 50V 470pF-J | |
| R 954 | 1742-182-721 | 1/8W 1.8KW-J | C 945 | 1832-221-822 | CERA/AX 50V 220pF-J | |
| R 927 | 1742-183-721 | 1/8W 18KW-J | C 946 | 1832-221-822 | CERA/AX 50V 220pF-J | |
| R 931 | 1742-221-721 | 1/8W 220W-J | C 933 | 1832-151-772 | CERA/AX 50V 150PF-J | |
| R 932 | 1742-221-721 | 1/8W 220W-J | C 934 | 1832-151-772 | CERA/AX 50V 150PF-J | |
| R 904 | 1742-222-721 | 1/8W 2.2KW-J | C 904 | 1862-220-604 | ELECT 25V 22uF-M | |
| R 912 | 1742-224-721 | 1/8W 220KW-J | C 917 | 1862-221-506 | ELECT 16V 220uF-M | |
| R 913 | 1742-224-721 | 1/8W 220KW-J | C 976 | 1862-470-814 | ELECT 50V 47uF-M | |
| R 921 | 1742-224-721 | 1/8W 220KW-J | C 977 | 1862-470-814 | ELECT 50V 47uF-M | |
| R 922 | 1742-224-721 | 1/8W 220KW-J | C 931 | 1862-4R7-804 | ELECT 50V 4.7uF-M | |
| R 933 | 1742-224-721 | 1/8W 220KW-J | C 932 | 1862-4R7-804 | ELECT 50V 4.7uF-M | |
| R 934 | 1742-224-721 | 1/8W 220KW-J | C 941 | 1862-4R7-804 | ELECT 50V 4.7uF-M | |
| R 919 | 1742-331-721 | 1/8W 330W-J | C 942 | 1862-4R7-804 | ELECT 50V 4.7uF-M | |
| R 920 | 1742-331-721 | 1/8W 330W-J | C 951 | 1862-4R7-804 | ELECT 50V 4.7uF-M | |
| R 955 | 1742-392-721 | 1/8W 3.9KW-J | C 952 | 1862-4R7-804 | ELECT 50V 4.7uF-M | |
| R 956 | 1742-392-721 | 1/8W 3.9KW-J | C 953 | 1862-4R7-804 | ELECT 50V 4.7uF-M | |
| R 901 | 1742-471-721 | 1/8W 470W-J | C 955 | 1864-010-804 | ELECT 50V 1.0uF-M | |
| R 914 | 1742-473-721 | 1/8W 47KW-J | C 956 | 1864-010-804 | ELECT 50V 1.0uF-M | |
| R 915 | 1742-473-721 | 1/8W 47KW-J | C 961 | 1862-220-804 | ELECT 50V 22uF-M | |
| R 916 | 1742-473-721 | 1/8W 47KW-J | C 962 | 1862-220-804 | ELECT 50V 22uF-M | |
| R 917 | 1742-473-721 | 1/8W 47KW-J | C 939 | 1879-823-712 | FILM 100V 0.082uF-J | |
| R 918 | 1742-473-721 | 1/8W 47KW-J | C 940 | 1879-823-712 | FILM 100V 0.082uF-J | |
| R 972 | 1742-473-721 | 1/8W 47KW-J | C 937 | 1879-333-712 | FILM 100V 0.033uF-J | |
| R 978 | 1742-473-721 | 1/8W 47KW-J | C 938 | 1879-333-712 | FILM 100V 0.033uF-J | |
| R 979 | 1742-473-721 | 1/8W 47KW-J | C 947 | 1879-393-712 | FILM 100V 0.039uF-J | |
| R 924 | 1742-473-721 | 1/8W 47KW-J | C 948 | 1879-393-712 | FILM 100V 0.039uF-J | |
| R 959 | 1742-473-721 | 1/8W 47KW-J | C 943 | 1879-822-761 | FILM 400V 0.0082uF-J | |
| R 969 | 1742-473-721 | 1/8W 47KW-J | C 944 | 1879-822-761 | FILM 400V 0.0082uF-J | |
| R 970 | 1742-473-721 | 1/8W 47KW-J | C 906 | 1881-10A-001 | SCAP 5.5V 0.1F | |
| WAFERS | | | | | | |
| R 923 | 1742-750-721 | 1/8W 75W-J | WA 903 | 2111-023-002 | 2P 5267-02A | |
| R 943 | 1742-753-721 | 1/8W 75KW-J | WA 904 | 2111-023-002 | 2P 5267-02A | |
| R 944 | 1742-753-721 | 1/8W 75KW-J | CN 924 | 2113-022-007 | 22P FFC | |
| R 939 | 1742-752-721 | 1/8W 7.5KW-J | CN 923 | 2113-030-007 | 30P FFC | |
| R 940 | 1742-752-721 | 1/8W 7.5KW-J | WIRES | | | |
| R 951 | 1742-561-721 | 1/8W 560W-J | TO DSP | 2133-220-002 | FFC;22P;320 | |
| R 952 | 1742-561-721 | 1/8W 560W-J | TO MAIN | 2133-300-002 | FFC;30P;280 | |
| R 936 | 1742-154-721 | 1/8W 150KW-J | T911<->T912 | 2141-010-051 | T911<->T912 IP, 1007#24,100m/m | |
| R 935 | 1742-154-721 | 1/8W 150KW-J | T 901 | 2141-020-114 | T 901 1P,1007#22,150m/m | |
| R 945 | 1742-394-721 | 1/8W 390KW-J | T 902 | 2141-020-114 | T 902 1P,1007#22,150m/m | |
| R 946 | 1742-394-721 | 1/8W 390KW-J | | | | |

| REF NO. | PART NO | DESCRIPTION |
|---------|--------------|-------------------|
| T 903 | 2141-020-114 | 1P,1007#22,150m/m |
| T 904 | 2141-020-114 | 1P,1007#22,150m/m |
| CN 904 | 2141-020-600 | 2P,1007#26,100m/m |
| CN 908 | 2141-040-011 | 4P,1533#26,350m/m |
| CN 911 | 2141-060-013 | 6P,1533#26,300m/m |
| CN 986 | 2141-070-016 | 7P,1007#24,430m/m |
| CN 907 | 2141-080-117 | 8P,500m/m |

MISCELLANEOUS

| | | |
|--------------|----------------|--------------------------|
| 5226-003-010 | CASE,SHIELD(F) | |
| 5451-003-020 | CUSHION-FLT | |
| RMT 901 | 1264-000-020 | SENSOR-REMOTE LTM9433D |
| FLT 901 | 1277-000-012 | VFD CM1684CB |
| X 901 | 1352-000-003 | X-TAL;ATS-49/U,9.8304MHZ |
| JP 901 | 1514-030-003 | JACK-PIN 3P(Video3) |
| JP 961 | 1515-000-010 | JACK-H/P |
| VR 901 | 1640-111-001 | VR-ENCODER |
| SW 901 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 902 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 903 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 904 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 905 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 906 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 907 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 908 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 909 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 910 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 911 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 912 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 913 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 914 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 915 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 916 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 917 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 918 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 919 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 920 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 921 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 922 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 923 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 924 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 925 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 926 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 927 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 928 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 929 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 930 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| SW 933 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| VR 902 | 1721-503-212 | VR-ROTARY 100KC |
| VR 903 | 1721-503-212 | VR-ROTARY 100KC |
| VR 904 | 1721-503-213 | VR-ROTARY 100KMN |

NW-RESISTORS

| | | | | |
|--------|--------------|--------|-------|------|
| RA 903 | 1792-272-001 | NW-RES | 11PIN | 2.7K |
| RA 901 | 1792-473-000 | NW-RES | 9PIN | 47K |
| RA 902 | 1792-473-001 | NW-RES | 6PIN | 47K |

0112-011-1633 POWER P.C.BOARD

| | | |
|---------|--------------|----------------------|
| SW932 | 1671-000-017 | SW-POWER SY-16-32-2 |
| C968 | 1825-000-010 | AC AC250V 0.0047uF-M |
| CN983 | 2111-026-002 | 2P 35328-0210 |
| CN983~S | 2141-010-167 | 2P, 1672#18,500m/m |

0112-011-1634 STAND-BY P.C.BOARD

| | | |
|--------|--------------|-----------------------|
| CN987 | 2141-030-003 | 3P, 1007\$24 |
| LED901 | 1271-000-061 | LED SLR-54MVW |
| SW931 | 1671-000-020 | SW-TACT SKHV10910A,2P |
| CN903 | 2141-020-118 | 2P, 1007#26, 100m/m |

REF NO. PART NO DESCRIPTION

| | | |
|--|--------------|-------------------------------------|
| 0112-011-154 HEAD PHONE P.C.BOARD | | |
| CN901 | 2141-050-015 | 5P, 1007#26/2547, 600n/n |
| C969 | 1832-104-002 | CERA/AX 50V 0.1uF-Z |
| C970 | 1832-104-002 | CERA/AX 50V 0.1uF-Z |
| C982 | 1832-152-983 | CERA/AX 50V 0.0015uF-M IB/AB |
| C983 | 1832-152-983 | CERA/AX 50V 0.0015uF-M IB/AB |
| C982 | 1832-152-983 | CERA/AX 50V 0.0015uF-M IB/AB |
| C983 | 1832-152-983 | CERA/AX 50V 0.0015uF-M IB/AB |

0112-011-154 DSP1 P.C.BOARD

| | | |
|----------------------------|--------------|---------------------------|
| INTEGRATED CIRCUITS | | |
| IC 712 | 1212-004-001 | IC 74VHC04F HEX INVERTER |
| IC 718 | 1212-033-001 | IC 3.3V REGULATOR |
| IC 717 | 1212-074-001 | IC TC74VHC74F D-FLIP FLOP |
| IC 719 | 1212-132-001 | IC TC74VHC132F NAND GATE |
| IC 711 | 1212-244-001 | IC 74VHC244F BUFFER |
| IC 714 | 1212-244-001 | IC 74VHC244F BUFFER |
| IC 709 | 1212-422-001 | IC CS4226,5.5V CODEC |
| IC 710 | 1212-492-002 | IC CS4926,3.3V DSP |
| IC 713 | 1212-534-006 | IC MSM534031E,3.3V ROM |
| IC 715 | 1212-574-001 | IC 74VHC574F D-FILP FLOP |
| IC 716 | 1212-574-001 | IC 74VHC574F D-FILP FLOP |
| IC 701 | 1215-072-001 | IC NJM072M OP AMP |
| IC 705 | 1215-072-001 | IC NJM072M OP AMP |
| IC 706 | 1215-072-001 | IC NJM072M OP AMP |
| IC 707 | 1215-072-001 | IC NJM072M OP AMP |
| IC 702 | 1215-455-001 | IC NJM4558M OP AMP |
| IC 708 | 1215-455-001 | IC NJM4558M OP AMP |

TRANSISTORS

| | | | |
|-------|--------------|------------|-----|
| Q 703 | 1243-101-018 | KRC101M | NPN |
| Q 716 | 1243-101-018 | KRC101M | NPN |
| Q 704 | 1244-102-003 | KRA102M | NPN |
| Q 701 | 1244-126-004 | KTA1266-GR | NPN |
| Q 702 | 1244-126-004 | KTA1266-GR | NPN |
| Q 705 | 1244-126-004 | KTA1266-GR | NPN |
| Q 707 | 1243-130-003 | KTD1302 | NPN |
| Q 714 | 1243-130-003 | KTD1302 | NPN |
| Q 715 | 1243-130-003 | KTD1302 | NPN |

DIODE

| | | |
|------|--------------|--------------|
| D 01 | 1252-000-017 | 1SS133 , SW. |
|------|--------------|--------------|

RESISTORS(CARBON)

| | | | |
|------|--------------|------|--------|
| R 71 | 1742-100-721 | 1/8W | 10W-J |
| R 72 | 1742-100-721 | 1/8W | 10W-J |
| R 73 | 1742-100-721 | 1/8W | 10W-J |
| R 74 | 1742-100-721 | 1/8W | 10W-J |
| R 75 | 1742-100-721 | 1/8W | 10W-J |
| R 76 | 1742-100-721 | 1/8W | 10W-J |
| R 01 | 1742-101-721 | 1/8W | 100W-J |
| R 03 | 1742-101-721 | 1/8W | 100W-J |
| R 06 | 1742-101-721 | 1/8W | 100W-J |
| R 54 | 1742-102-721 | 1/8W | 1KW-J |
| R 55 | 1742-102-721 | 1/8W | 1KW-J |
| R 56 | 1742-102-721 | 1/8W | 1KW-J |
| R 15 | 1742-103-721 | 1/8W | 10KW-J |
| R 16 | 1742-103-721 | 1/8W | 10KW-J |
| R 17 | 1742-103-721 | 1/8W | 10KW-J |
| R 20 | 1742-103-721 | 1/8W | 10KW-J |
| R 21 | 1742-103-721 | 1/8W | 10KW-J |
| R 22 | 1742-103-721 | 1/8W | 10KW-J |
| R 23 | 1742-103-721 | 1/8W | 10KW-J |
| R 24 | 1742-103-721 | 1/8W | 10KW-J |
| R 25 | 1742-103-721 | 1/8W | 10KW-J |
| R 26 | 1742-103-721 | 1/8W | 10KW-J |

| REF NO. | PART NO | DESCRIPTION |
|---------|--------------|-------------|
| R 28 | 1742-103-721 | 1/8W |
| R 30 | 1742-103-721 | 1/8W |
| R 31 | 1742-103-721 | 1/8W |
| R 33 | 1742-103-721 | 1/8W |
| R 37 | 1742-103-721 | 1/8W |
| R 40 | 1742-103-721 | 1/8W |
| R 41 | 1742-103-721 | 1/8W |
| R 52 | 1742-103-721 | 1/8W |
| R 58 | 1742-103-721 | 1/8W |
| R 53 | 1742-220-721 | 1/8W |
| R 60 | 1742-220-721 | 1/8W |
| R 05 | 1742-222-721 | 1/8W |
| R 10 | 1742-222-721 | 1/8W |
| R 13 | 1742-222-721 | 1/8W |
| R 50 | 1742-222-721 | 1/8W |
| R 51 | 1742-222-721 | 1/8W |
| R 57 | 1742-222-721 | 1/8W |
| R 59 | 1742-271-721 | 1/8W |
| R 61 | 1742-271-721 | 1/8W |
| R 08 | 1742-330-721 | 1/8W |
| R 09 | 1742-330-721 | 1/8W |
| R 27 | 1742-330-721 | 1/8W |
| R 49 | 1742-433-721 | 1/8W |
| R 38 | 1742-470-721 | 1/8W |
| R 39 | 1742-470-721 | 1/8W |
| R 11 | 1742-472-721 | 1/8W |
| R 12 | 1742-472-721 | 1/8W |
| R 14 | 1742-472-721 | 1/8W |
| R 29 | 1742-472-721 | 1/8W |
| R 32 | 1742-472-721 | 1/8W |
| R 797 | 1742-472-721 | 1/8W |
| R 04 | 1742-473-721 | 1/8W |
| R 02 | 1742-750-721 | 1/8W |
| R 07 | 1744-4R7-731 | 1/4W |

RESISTORS(CHIP)

| | | | |
|-------|--------------|------|---------|
| R 708 | 1746-101-771 | 1/10 | 100W-J |
| R 718 | 1746-101-771 | 1/10 | 100W-J |
| R 81 | 1746-102-771 | 1/10 | 1KW-J |
| R 82 | 1746-102-771 | 1/10 | 1KW-J |
| R 83 | 1746-104-771 | 1/10 | 100KW-J |
| R 84 | 1746-104-771 | 1/10 | 100KW-J |
| R 743 | 1746-104-771 | 1/10 | 100KW-J |
| R 744 | 1746-104-771 | 1/10 | 100KW-J |
| R 757 | 1746-104-771 | 1/10 | 100KW-J |
| R 758 | 1746-104-771 | 1/10 | 100KW-J |
| R 771 | 1746-104-771 | 1/10 | 100KW-J |
| R 772 | 1746-104-771 | 1/10 | 100KW-J |
| R 78 | 1746-222-771 | 1/10 | 2.2KW-J |
| R 79 | 1746-222-771 | 1/10 | 2.2KW-J |
| R 94 | 1746-222-771 | 1/10 | 2.2KW-J |
| R 95 | 1746-222-771 | 1/10 | 2.2KW-J |
| R 755 | 1746-123-771 | 1/10 | 12KW-J |
| R 756 | 1746-123-771 | 1/10 | 12KW-J |
| R 770 | 1746-123-771 | 1/10 | 12KW-J |
| R 705 | 1746-101-771 | 1/10 | 100W-J |
| R 706 | 1746-101-771 | 1/10 | 100W-J |
| R 703 | 1746-103-771 | 1/10 | 10KW-J |
| R 704 | 1746-103-771 | 1/10 | 10KW-J |
| R 783 | 1746-123-771 | 1/10 | 12KW-J |
| R 784 | 1746-123-771 | 1/10 | 12KW-J |
| R 748 | 1746-152-771 | 1/10 | 1.5KW-J |
| R 750 | 1746-152-771 | 1/10 | 1.5KW-J |
| R 747 | 1746-152-771 | 1/10 | 1.5KW-J |
| R 749 | 1746-152-771 | 1/10 | 1.5KW-J |
| R 762 | 1746-152-771 | 1/10 | 1.5KW-J |
| R 764 | 1746-152-771 | 1/10 | 1.5KW-J |
| R 761 | 1746-152-771 | 1/10 | 1.5KW-J |
| R 763 | 1746-152-771 | 1/10 | 1.5KW-J |

| REF NO. | PART NO | DESCRIPTION |
|---------|--------------|-------------|
| R 776 | 1746-152-771 | 1/10 |
| R 778 | 1746-152-771 | 1/10 |
| R 775 | 1746-152-771 | 1/10 |
| R 777 | 1746-152-771 | 1/10 |
| R 714 | 1746-183-771 | 1/10 |
| R 701 | 1746-203-771 | 1/10 |
| R 702 | 1746-203-771 | 1/10 |
| R 710 | 1746-224-771 | 1/10 |
| R 716 | 1746-224-771 | 1/10 |
| R 753 | 1746-272-771 | 1/10 |
| R 754 | 1746-272-771 | 1/10 |
| R 767 | 1746-272-771 | 1/10 |
| R 768 | 1746-272-771 | 1/10 |
| R 781 | 1746-272-771 | 1/10 |
| R 782 | 1746-272-771 | 1/10 |
| R 745 | 1746-302-771 | 1/10 |
| R 746 | 1746-302-771 | 1/10 |
| R 759 | 1746-302-771 | 1/10 |
| R 760 | 1746-302-771 | 1/10 |
| R 773 | 1746-302-771 | 1/10 |
| R 774 | 1746-302-771 | 1/10 |
| R 712 | 1746-473-771 | 1/10 |
| R 87 | 1746-683-771 | 1/10 |
| R 88 | 1746-683-771 | 1/10 |
| R 751 | 1746-821-771 | 1/10 |
| R 752 | 1746-821-771 | 1/10 |
| R 765 | 1746-821-771 | 1/10 |
| R 766 | 1746-821-771 | 1/10 |
| R 779 | 1746-821-771 | 1/10 |
| R 780 | 1746-821-771 | 1/10 |
| R 89 | 1746-2R2-771 | 1/10 |
| R 90 | 1746-2R2-771 | 1/10 |
| R 85 | 1746-393-771 | 1/10 |
| R 86 | 1746-393-771 | 1/10 |
| R 787 | 1746-102-771 | 1/10 |
| R 788 | 1746-102-771 | 1/10 |
| R 791 | 1746-102-771 | 1/10 |
| R 792 | 1746-102-771 | 1/10 |
| R 795 | 1746-102-771 | 1/10 |
| R 796 | 1746-102-771 | 1/10 |

CAPACITORS

| | | |
|------|--------------|-----------------------|
| C 44 | 1822-101-772 | CERA/RA 50V 100pF-J |
| C 45 | 1822-101-772 | CERA/RA 50V 100pF-J |
| C 01 | 1822-102-882 | CERA/RA 50V 0.001uF-K |
| C 04 | 1822-102-882 | CERA/RA 50V 0.001uF-K |
| C 2 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 3 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 6 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 7 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 10 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 11 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 15 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 18 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 20 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 22 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 24 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 26 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 27 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 30 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 32 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 34 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 37 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 38 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 40 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 43 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 48 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 52 | 1822-104-822 | CERA/RA 50V 0.1uF-K |
| C 53 | 1822-104-822 | CERA/RA 50V 0.1uF-K |

| REF NO. | PART NO | DESCRIPTION | |
|-------------------------|--------------|-------------|----------------|
| C 791 | 1822-104-822 | CERA/RA | 50V 0.1uF-K |
| C 792 | 1822-104-822 | CERA/RA | 50V 0.1uF-K |
| C 49 | 1822-152-882 | CERA/RA | 50V 0.0015uF-K |
| CAPACITORS(CHIP) | | | |
| C 703 | 1846-101-712 | CERA | 50V 100pF-J |
| C 704 | 1846-101-712 | CERA | 50V 100pF-J |
| C 735 | 1846-101-712 | CERA | 50V 100pF-J |
| C 736 | 1846-101-712 | CERA | 50V 100pF-J |
| C 752 | 1846-101-712 | CERA | 50V 100pF-J |
| C 767 | 1846-101-712 | CERA | 50V 100pF-J |
| C 768 | 1846-101-712 | CERA | 50V 100pF-J |
| C 727 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 728 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 731 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 732 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 743 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 744 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 747 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 748 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 759 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 760 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 763 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 764 | 1846-222-882 | CERA | 50V 0.0022uF-K |
| C 81 | 1846-470-712 | CERA | 50V 47pF-J |
| C 82 | 1846-470-712 | CERA | 50V 47pF-J |
| C 729 | 1846-472-882 | CERA | 50V 0.0047uF-K |
| C 730 | 1846-472-882 | CERA | 50V 0.0047uF-K |
| C 745 | 1846-472-882 | CERA | 50V 0.0047uF-K |
| C 746 | 1846-472-882 | CERA | 50V 0.0047uF-K |
| C 761 | 1846-472-882 | CERA | 50V 0.0047uF-K |
| C 762 | 1846-472-882 | CERA | 50V 0.0047uF-K |
| C 733 | 1846-682-882 | CERA | 50V 0.0068uF-K |
| C 734 | 1846-682-882 | CERA | 50V 0.0068uF-K |
| C 749 | 1846-682-882 | CERA | 50V 0.0068uF-K |
| C 750 | 1846-682-882 | CERA | 50V 0.0068uF-K |
| C 765 | 1846-682-882 | CERA | 50V 0.0068uF-K |
| C 766 | 1846-682-882 | CERA | 50V 0.0068uF-K |
| C 5 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 8 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 9 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 19 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 23 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 25 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 28 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 29 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 31 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 33 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 36 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 39 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 42 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 46 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 47 | 1862-010-804 | ELECT | 50V 1.0uF-M |
| C 51 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 83 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 84 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 725 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 726 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 741 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 742 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 757 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 758 | 1862-100-804 | ELECT | 50V 10uF-M |
| C 12 | 1861-102-218 | ELECT | 6.3V 1000uF-M |
| C 13 | 1862-470-604 | ELECT | 25V 47uF-M |
| C 14 | 1862-470-604 | ELECT | 25V 47uF-M |
| C 16 | 1862-470-604 | ELECT | 25V 47uF-M |
| C 17 | 1862-470-604 | ELECT | 25V 47uF-M |
| C 71 | 1862-470-503 | ELECT | 16V 47uF-M |
| C 72 | 1862-470-503 | ELECT | 16V 47uF-M |

| REF NO. | PART NO | DESCRIPTION | |
|-----------------------------------|--------------|-------------|-----------------|
| C 75 | 1862-470-503 | ELECT | 16V 47uF-M |
| C 76 | 1862-470-503 | ELECT | 16V 47uF-M |
| C 73 | 1862-470-604 | ELECT | 25V 47uF-M |
| C 74 | 1862-470-604 | ELECT | 25V 47uF-M |
| C 701 | 1862-4R7-800 | ELECT | 50V 4.7uF-M |
| C 702 | 1862-4R7-800 | ELECT | 50V 4.7uF-M |
| C 705 | 1862-100-800 | ELECT | 50V 10uF-M |
| C 706 | 1862-100-800 | ELECT | 50V 10uF-M |
| C 708 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| C 712 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| C 50 | 1876-153-811 | MYLAR | 0.015uF-K |
| C 35 | 1879-224-750 | FILM | 63V 0.22uF-J |
| 0112-011-1542 DSP2 PC.BORD | | | |
| INTEGRATED CIRCUITS | | | |
| IC 723 | 1215-455-001 | IC | NJM4558M OP AMP |
| IC 724 | 1215-455-001 | IC | NJM4558M OP AMP |
| IC 725 | 1215-455-001 | IC | NJM4558M OP AMP |
| IC 726 | 1215-455-001 | IC | NJM4558M OP AMP |
| TRANSISTOR | | | |
| QD 2 | 1243-103-004 | KRC103M | NPN |
| DIODE | | | |
| DD1 | 1252-000-017 | 1SS133, SW. | |
| RESISTORS | | | |
| RD43 | 1744-561-731 | 1/4W | 560W-J |
| RESISTORS(CHIP) | | | |
| RD 1 | 1746-101-771 | 1/10W | 100W-J |
| RD 2 | 1746-101-771 | 1/10W | 100W-J |
| RD 13 | 1746-101-771 | 1/10W | 100W-J |
| RD 13 | 1746-101-771 | 1/10W | 100W-J |
| RD 14 | 1746-101-771 | 1/10W | 100W-J |
| RD 23 | 1746-101-771 | 1/10W | 100W-J |
| RD 24 | 1746-101-771 | 1/10W | 100W-J |
| RD 25 | 1746-101-771 | 1/10W | 100W-J |
| RD 26 | 1746-101-771 | 1/10W | 100W-J |
| RD 35 | 1746-101-771 | 1/10W | 100W-J |
| RD 36 | 1746-101-771 | 1/10W | 100W-J |
| R 787 | 1746-102-771 | 1/10W | 1KW-J |
| R 788 | 1746-102-771 | 1/10W | 1KW-J |
| R 791 | 1746-102-771 | 1/10W | 1KW-J |
| R 792 | 1746-102-771 | 1/10W | 1KW-J |
| R 795 | 1746-102-771 | 1/10W | 1KW-J |
| R 796 | 1746-102-771 | 1/10W | 1KW-J |
| RD 19 | 1746-103-771 | 1/10W | 10KW-J |
| RD17 | 1746-104-771 | 1/10W | 100KW-J |
| R 785 | 1746-104-771 | 1/10W | 100KW-J |
| R 786 | 1746-104-771 | 1/10W | 100KW-J |
| R 789 | 1746-104-771 | 1/10W | 100KW-J |
| R 790 | 1746-104-771 | 1/10W | 100KW-J |
| R 793 | 1746-104-771 | 1/10W | 100KW-J |
| R 794 | 1746-104-771 | 1/10W | 100KW-J |
| RD 7 | 1746-123-771 | 1/10W | 12KW-J |
| RD 8 | 1746-123-771 | 1/10W | 12KW-J |
| RD 11 | 1746-123-771 | 1/10W | 12KW-J |
| RD 12 | 1746-123-771 | 1/10W | 12KW-J |
| RD 20 | 1746-123-771 | 1/10W | 12KW-J |
| RD 31 | 1746-123-771 | 1/10W | 12KW-J |
| RD 32 | 1746-123-771 | 1/10W | 12KW-J |
| RD 37 | 1746-123-771 | 1/10W | 12KW-J |
| RD 38 | 1746-123-771 | 1/10W | 12KW-J |
| RD 41 | 1746-123-771 | 1/10W | 12KW-J |
| RD 42 | 1746-123-771 | 1/10W | 12KW-J |
| RD 3 | 1746-224-771 | 1/10W | 220KW-J |

| REF NO. | PART NO | DESCRIPTION | |
|---------|--------------|-------------|---------|
| RD 4 | 1746-224-771 | 1/10W | 220KW-J |
| RD 9 | 1746-224-771 | 1/10W | 220KW-J |
| RD 10 | 1746-224-771 | 1/10W | 220KW-J |
| RD 15 | 1746-224-771 | 1/10W | 220KW-J |
| RD 16 | 1746-224-771 | 1/10W | 220KW-J |
| RD 21 | 1746-224-771 | 1/10W | 220KW-J |
| RD 22 | 1746-224-771 | 1/10W | 220KW-J |
| RD 27 | 1746-224-771 | 1/10W | 220KW-J |
| RD 28 | 1746-224-771 | 1/10W | 220KW-J |
| RD 33 | 1746-224-771 | 1/10W | 220KW-J |
| RD 34 | 1746-224-771 | 1/10W | 220KW-J |

WAFERS

| | | | |
|--------|--------------|-----|--------------|
| WA 716 | 2111-010-006 | 6P | 53014-0610 |
| WA 701 | 2111-023-005 | 5P | 5267-05A |
| WA 702 | 2113-022-007 | 22P | FFC |
| HU 706 | 2114-002-113 | 2P | JE113-D3T-02 |
| HU 707 | 2114-002-113 | 2P | JE113-D3T-02 |
| WA 704 | 2114-012-114 | 12P | JE114-D1T-12 |
| WA 705 | 2114-014-114 | 14P | JE114-D1T-14 |
| HU 721 | 2121-605-010 | 10P | JE-605-10 |
| HU 719 | 2121-605-011 | 11P | JE-605-11 |
| HU 720 | 2121-605-011 | 11P | JE-605-11 |

WIRES

| | | |
|-----------------------------|--------------|----------------------|
| H10 <--> H12 | 141-010-052 | 1P,1007#24220m/m |
| CN753 | 2141-020-031 | 2P,1533#26,180m/m |
| R48 <--> TUNER C3199BASE | 2141-020-120 | 1P+2P,1533#26,180m/m |
| CN 701 | 2141-030-031 | 3P,2547#26,200m/m |

MISCELLANEOUS

| | | |
|--------|---------------|-------------------------|
| IC 720 | 5226-003-030 | CASE-SHIELD(D) |
| X 701 | 1261-171-000 | TR-PHOTO;PC-17T1 |
| L 707 | 1353-049-152 | X-TAL;49.152MHz,SUNNY |
| JA 701 | 1444-470-009 | COIL ,AL02-470K,47uH(A) |
| JA 703 | 1514-001-001 | JACK-RCA 1P |
| JA 702 | 1514-060-001 | PIN JACK;6P,JW-4105R |
| JA 705 | 1516-000-001 | OPTICAL JACK; TORX178A |
| L 701 | 1519-650-201 | REMOTE JACK;2P |
| L 702 | 1784-000-006 | BEAD;6mm,AXIAL |
| L 704 | 1784-000-006 | BEAD;6mm,AXIAL |
| L 705 | 1784-000-006 | BEAD;6mm,AXIAL |
| L 706 | 1784-000-006 | BEAD;6mm,AXIAL |
| L 709 | 1784-000-006 | BEAD;6mm,AXIAL |
| L 711 | 1784-000-006 | BEAD;6mm,AXIAL |
| L 710 | 1742-000-0003 | WIRE P=10mm, SND=0.6mm |
| JA 706 | 1514-010-002 | MULTI-ROOM JACK ;1P |

CAPACITIORS

| | | |
|-------|--------------|---------------------------|
| C 755 | 1846-334-883 | CERA(CHIP) 50V 0.33uF-K |
| C 739 | 1846-682-882 | CERA(CHIP) 50V 0.0068uF-K |
| C 740 | 1846-682-882 | CERA(CHIP) 50V 0.0068uF-K |
| C 756 | 1846-682-882 | CERA(CHIP) 50V 0.0068uF-K |
| C 771 | 1846-682-882 | CERA(CHIP) 50V 0.0068uF-K |
| C 772 | 1846-682-882 | CERA(CHIP) 50V 0.0068uF-K |
| CD 15 | 1862-010-804 | ELECT 50V 1.0uF-M |
| CD 9 | 1862-100-504 | ELECT 16V 10uF-M |
| CD 19 | 1862-100-504 | ELECT 16V 10uF-M |
| C 737 | 1862-100-804 | ELECT 50V 10uF-M |
| C 738 | 1862-100-804 | ELECT 50V 10uF-M |
| C 753 | 1862-100-804 | ELECT 50V 10uF-M |
| C 754 | 1862-100-804 | ELECT 50V 10uF-M |
| C 769 | 1862-100-804 | ELECT 50V 10uF-M |
| C 770 | 1862-100-804 | ELECT 50V 10uF-M |
| CD 1 | 1862-4R7-804 | ELECT 50V 4.7uF-M |
| CD 2 | 1862-4R7-804 | ELECT 50V 4.7uF-M |
| CD 5 | 1862-4R7-804 | ELECT 50V 4.7uF-M |
| CD 6 | 1862-4R7-804 | ELECT 50V 4.7uF-M |

| REF NO. | PART NO | DESCRIPTION | |
|---------|--------------|-------------|-------------|
| CD 7 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 8 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 11 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 12 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 13 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 14 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 17 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 18 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 3 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 4 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| CD 10 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |

WAFERS

| | | | |
|--------|--------------|-----|--------------|
| HU 704 | 2121-012-602 | 12P | JE602-A1G-12 |
| HU 705 | 2121-014-602 | 14P | JE602-A1G-14 |

MISCELLANEOUS

| | | |
|--------------|--------------|------------------------|
| R47<---->H13 | 2141-010-024 | WIRE;1P,1007#24,150m/m |
| RL1 | 2022-000-012 | RELAY;CP-12 |

0112-011-1513 C-VIDEO PC.BOARD**INTEGRATED CIRCUITS**

| | | | |
|--------|--------------|-----------|--------------|
| IC 351 | 1212-795-001 | IC,LA7951 | VIDEO SW,6dB |
|--------|--------------|-----------|--------------|

TRANSISTORS

| | | | |
|-------|--------------|---------------|-----|
| Q 351 | 1243-319-001 | TR,KTC3198-GR | NPN |
|-------|--------------|---------------|-----|

RESISTORS

| | | | |
|-------|--------------|------|---------|
| R 357 | 1742-122-721 | 1/8W | 1.2KW-J |
| R 356 | 1742-151-721 | 1/8W | 150W-J |
| R 368 | 1742-151-721 | 1/8W | 150W-J |
| R 355 | 1742-680-721 | 1/8W | 68W-J |
| R 351 | 1742-750-721 | 1/8W | 75W-J |
| R 352 | 1742-750-721 | 1/8W | 75W-J |
| R 353 | 1742-750-721 | 1/8W | 75W-J |

CAPACITORS

| | | | |
|-------|--------------|---------|---------------|
| C 351 | 1822-101-772 | CERA/RA | 50V 100pF-J |
| C 353 | 1822-101-772 | CERA/RA | 50V 100pF-J |
| C 355 | 1822-101-772 | CERA/RA | 50V 100pF-J |
| C 357 | 1822-101-772 | CERA/RA | 50V 100pF-J |
| C 358 | 1822-101-772 | CERA/RA | 50V 100pF-J |
| C 361 | 1862-100-504 | CERA/RA | 50V 100pF-J |
| C 360 | 1862-331-318 | ELECT | 16V 10uF-M |
| C 363 | 1862-470-604 | ELECT | 10V 33uF-M |
| C 352 | 1862-4R7-804 | ELECT | 25V 47uF-M |
| C 354 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| C 356 | 1862-4R7-804 | ELECT | 50V 4.7uF-M |
| C 362 | 1832-104-002 | ELECT | 50V 4.7uF-M |
| C 364 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| C 365 | 1832-104-002 | CERA/AX | 50V 0.1uF-Z |
| C 359 | 1861-102-218 | ELEC | 6.3V 1000uF-M |

MISCELLANEOUS

| | | |
|--------|--------------|----------------------|
| HU 351 | 2121-605-008 | WAFER 8P, JE-605-08 |
| L 351 | 1444-270-003 | INDUCTOR/AX; 27uH(A) |
| JP 352 | 1514-030-002 | PIN JACK;3P |
| JP 351 | 1514-020-002 | PIN JACK;2P |

0112-011-1632 TUNER P.C.BOARD**INTEGRATED CIRCUITS**

| | | | | |
|--------|--------------|----|--------|----------|
| IC 801 | 1212-126-002 | IC | LA1266 | AM/FM IF |
| IC 803 | 1212-341-001 | IC | LA3410 | FM MPX |
| IC 802 | 1212-700-002 | IC | LM7000 | PLL |
| IC 804 | 1212-923-000 | IC | BU1923 | RDS |

| REF NO. | PART NO | DESCRIPTION | REF NO. | PART NO | DESCRIPTION | | | | |
|--------------------------|--------------|---------------------|---------|----------------------|-----------------|---------------|------------------|-----------|-----------|
| TRANSISTORS | | | | | | | | | |
| Q 809 | 1243-110-005 | KRC110M | NPN | R 881 | 1742-104-721 | 1/8W | 100KW-J | | |
| Q 810 | 1243-110-005 | KRC110M | NPN | R 805 | 1742-121-721 | 1/8W | 120W-J | | |
| Q 801 | 1243-319-008 | KTC3192-O | NPN | R 802 | 1742-122-721 | 1/8W | 1.2KW-J | | |
| Q 802 | 1243-319-008 | KTC3192-O | NPN | R 830 | 1742-153-721 | 1/8W | 15KW-J | | |
| Q 803 | 1243-319-008 | KTC3192-O | NPN | R 838 | 1742-154-721 | 1/8W | 150KW-J | | |
| Q 891 | 1243-319-008 | KTC3192-O | NPN | R 839 | 1742-154-721 | 1/8W | 150KW-J | | |
| IB | AB | | R 840 | 1742-154-721 | 1/8W | 150KW-J | | | |
| Q 805 | 1243-320-001 | KTC3200-GR | NPN | R 841 | 1742-154-721 | 1/8W | 150KW-J | | |
| Q 899 | 1243-319-007 | KTC-3199GR | NPN | R 833 | 1742-182-721 | 1/8W | 1.8KW-J | | |
| Q 806 | 1244-101-010 | KRA101M | PNP | R 812 | 1742-221-721 | 1/8W | 220W-J | | |
| Q 807 | 1244-101-010 | KRA101M | PNP | R 816 | 1742-221-721 | 1/8W | 220W-J | | |
| Q 808 | 1244-101-010 | KRA101M | PNP | R 864 | 1742-221-721 | 1/8W | 220W-J | | |
| FET | | | | | | | | | |
| Q 804 | 1248-246-001 | FET,2SK246-Y | N-CH | R 803 | 1742-222-721 | 1/8W | 2.2KW-J | | |
| DIODES | | | | | | | | | |
| D 801 | 1252-000-017 | 1SS133 | | R 826 | 1742-223-721 | 1/8W | 22KW-J | | |
| D 802 | 1252-000-017 | 1SS133 | | R 820 | 1742-271-721 | 1/8W | 270W-J | | |
| D 803 | 1252-000-017 | 1SS133 | | R 830 | 1742-273-721 | 1/8W | 27KW-J | | |
| D 804 | 1252-000-017 | 1SS133 | | R 804 | 1742-331-721 | 1/8W | 330W-J | | |
| VC 801 | 1252-000-040 | VVC;AM,SVC321SPA-D2 | | R 809 | 1742-331-721 | 1/8W | 330W-J | | |
| VC 802 | 1252-000-040 | VVC;AM,SVC321SPA-D2 | | IB | BK | | | | |
| ZD 803 | 1254-5R6-009 | ZENER | 5.6V | R818 | 1742-331-721 | 1/8W | 330W-J | | |
| ZD 804 | 1254-4R7-025 | ZENER | 4.7V | R 871 | 1742-331-721 | 1/8W | 330W-J | | |
| ZD 802 | 1254-5R1-021 | ZENER | 5.1V | R 808 | 1742-332-721 | 1/8W | 3.3KW-J | | |
| FILTERS | | | | | | | | | |
| F 805 | 1321-001-002 | AHCFM2-450BL | | R 822 | 1742-332-721 | 1/8W | 3.3KW-J | | |
| F 801 | 1321-000-005 | SFE10.7MA5-A(RED) | | R 835 | 1742-332-721 | 1/8W | 3.3KW-J | | |
| F 802 | 1321-000-005 | SFE10.7MA5-A(RED) | | R 846 | 1742-332-721 | 1/8W | 3.3KW-J | | |
| F 801 | 1321-000-013 | SFE10.7MS3-A | | R 847 | 1742-332-721 | 1/8W | 3.3KW-J | | |
| F 802 | 1321-000-013 | SFE10.7MS3-A | | R 807 | 1742-391-721 | 1/8W | 390W-J | | |
| F 803 | 1321-000-005 | SFE10.7MA5-A(RED) | | R 806 | 1742-392-721 | 1/8W | 3.9KW-J | | |
| F 806 | 1341-000-015 | CSB456F11 | | R 857 | 1742-393-721 | 1/8W | 39KW-J | | |
| F 804 | 1341-000-061 | BFU450C4N | | R 899 | 1742-472-721 | 1/8W | 4.7KW-J | | |
| COILS | | | | | | | | | |
| T 804 | 1422-000-051 | FM DET1 | | R 856 | 1742-560-721 | 1/8W | 56W-J | | |
| T 805 | 1422-000-052 | FM DET2 | | R 859 | 1742-561-721 | 1/8W | 560W-J | | |
| T 803 | 1422-000-055 | AM IFT | | R 863 | 1742-561-721 | 1/8W | 560W-J | | |
| T 802 | 1432-000-053 | AM OSC | | R 825 | 1742-562-721 | 1/8W | 5.6KW-J | | |
| T 801 | 1432-000-054 | AM ANT | | R 834 | 1742-562-721 | 1/8W | 5.6KW-J | | |
| T 806 | 1432-001-001 | MPX | | IB | IB | | | | |
| T 807 | 1432-001-001 | MPX | | R 810 | 1742-681-721 | 1/8W | 680W-J | | |
| RESISTORS(CARBON) | | | | | | | | | |
| R 801 | 1742-101-721 | 1/8W | 100W-J | R 829 | 1742-683-721 | 1/8W | 68KW-J | | |
| R 844 | 1742-101-721 | 1/8W | 100W-J | R 882 | 1742-683-721 | 1/8W | 68KW-J | | |
| R 845 | 1742-101-721 | 1/8W | 100W-J | R 811 | 1742-821-721 | 1/8W | 820W-J | | |
| R 819 | 1742-102-721 | 1/8W | 1KW-J | R 842 | 1742-272-721 | 1/8W | 2.7KW-J | | |
| R 824 | 1742-102-721 | 1/8W | 1KW-J | R 843 | 1742-272-721 | 1/8W | 2.7KW-J | | |
| R 828 | 1742-102-721 | 1/8W | 1KW-J | R 888 | 1744-100-731 | 1/4W | 10W-J | | |
| R 831 | 1742-102-721 | 1/8W | 1KW-J | R 813 | 1744-101-731 | 1/4W | 100W-J | | |
| R 837 | 1742-102-721 | 1/8W | 1KW-J | R 823 | 1744-101-731 | 1/4W | 100W-J | | |
| R 892 | 1742-102-721 | 1/8W | 1KW-J | IB | IB | | | | |
| R 817 | 1742-103-721 | 1/8W | 10KW-J | R 832 | 1744-220-731 | 1/4W | 22W-J | | |
| R 848 | 1742-103-721 | 1/8W | 10KW-J | R 865 | 1744-220-731 | 1/4W | 22W-J | | |
| R 849 | 1742-103-721 | 1/8W | 10KW-J | R 891 | 1744-220-731 | 1/4W | 22W-J | | |
| R 852 | 1742-103-721 | 1/8W | 10KW-J | R 851 | 1744-221-731 | 1/4W | 220W-J | | |
| R 858 | 1742-103-721 | 1/8W | 10KW-J | R 836 | 1744-470-731 | 1/4W | 47W-J | | |
| R 860 | 1742-103-721 | 1/8W | 10KW-J | R 866 | 1744-331-731 | 1/4W | 330W-J | | |
| R 861 | 1742-103-721 | 1/8W | 10KW-J | R 855 | 1744-331-731 | 1/4W | 330W-J | | |
| R 862 | 1742-103-721 | 1/8W | 10KW-J | MISCELLANEOUS | | | | | |
| R 893 | 1742-103-721 | 1/8W | 10KW-J | 5226-003-040 | CASE-SHIELD(T2) | | | | |
| R 814 | 1742-104-721 | 1/8W | 100KW-J | ANT 801 | 1514-021-393 | TERMINAL-JACK | M 75ohm | | |
| R 815 | 1742-104-721 | 1/8W | 100KW-J | ANT 801 | 1514-021-392 | TERMINAL-JACK | M 75ohm | IB | AB |
| R 827 | 1742-104-721 | 1/8W | 100KW-J | P 801 | 1291-000-006 | TUNER PACK | FTA4-460H | | |
| CAPACITORS | | | | | | | | | |
| C 855 | 1822-150-712 | CERA/RA | 50V | X 801 | 1352-000-072 | X-TAL | 7.2MHz | IB | |
| C 844 | 1822-300-712 | CERA/RA | 50V | X 802 | 1352-432-001 | X-TAL | 4.332MHz | | |
| | | | | L 803 | 1444-270-003 | COIL | L02-270K,27uH(A) | | |
| | | | | L 804 | 1444-270-003 | COIL | L02-270K,27uH(A) | | |
| | | | | L 802 | 1471-200-005 | COIL | 20.8mH | IB | |
| | | | | VR 803 | 1731-224-002 | VR-SEMI | 220kohm | | |
| | | | | VR 801 | 1731-473-004 | VR-SEMI | 47kohm | | |
| | | | | VR 802 | 1731-473-004 | VR-SEMI | 47kohm | | |
| | | | | CT 801 | 1815-020-001 | C-TRIM | 20pF | | |

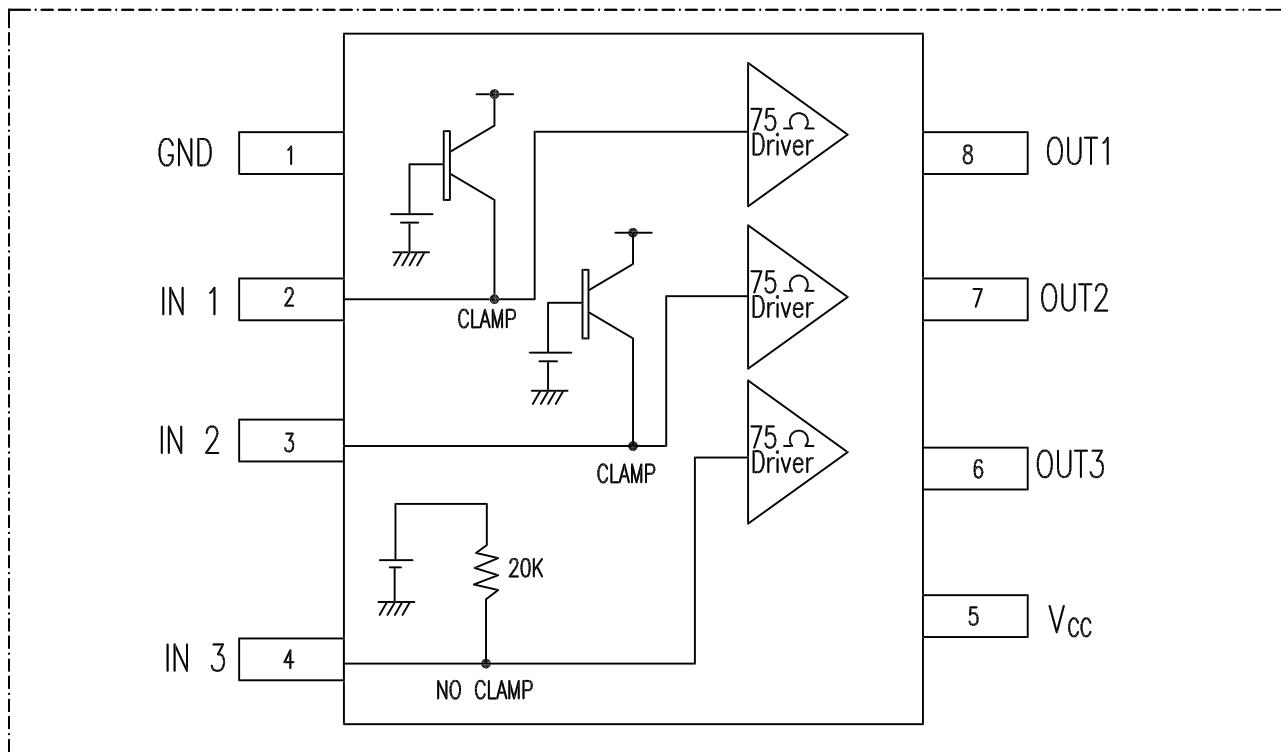
| REF NO. | PART NO | DESCRIPTION | | |
|---------|--------------|-------------|------|------------------------|
| C 845 | 1822-300-712 | CERA/RA | 50V | 30pF-J |
| C 814 | 1822-330-712 | CERA/RA | 50V | 33pF-J |
| C 815 | 1822-330-712 | CERA/RA | 50V | 33pF-J AB/IB |
| C 891 | 1822-331-712 | CERA/RA | 50V | 33pF-J AB/IB |
| C 838 | 1822-331-712 | CERA/RA | 50V | 33pF-J AB/IB |
| C 839 | 1822-331-712 | CERA/RA | 50V | 33pF-J AB/IB |
| C 892 | 1822-820-772 | CERA/RA | 50V | 82pF-J AB/IB |
| C 893 | 1822-101-772 | CERA/RA | 50V | 100pF-J |
| C 801 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 802 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 803 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 809 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 813 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 824 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 828 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 830 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 850 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z |
| C 857 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z AB/IB |
| C 894 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z IB |
| C 846 | 1822-223-001 | CERA/RA | 50V | 0.022uF-Z BK |
| C 838 | 1822-471-822 | CERA/RA | 50V | 470pF-K |
| C 839 | 1822-471-822 | CERA/RA | 50V | 470pF-K |
| C 848 | 1822-561-712 | CERA/RA | 50V | 560pF-J |
| C 804 | 1822-473-001 | CERA/RA | 50V | 0.047uF-Z |
| C 822 | 1822-473-001 | CERA/RA | 50V | 0.047uF-Z |
| C 826 | 1822-473-001 | CERA/RA | 50V | 0.047uF-Z |
| C 827 | 1822-473-001 | CERA/RA | 50V | 0.047uF-Z |
| C 816 | 1832-101-712 | CERA/AX | 50V | 100pF-J |
| C 817 | 1832-101-712 | CERA/AX | 50V | 100pF-J |
| C 843 | 1832-331-822 | CERA/AX | 50V | 330pF-K |
| C 818 | 1832-223-001 | CERAA/AX | 50V | 0.022uF-Z IB |
| C 810 | 1862-010-804 | ELECT | 50V | 1.0uF-M |
| C 808 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 835 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 851 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 866 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 837 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 840 | 1862-100-504 | ELECT | 16V | 10uF-M |
| C 831 | 1862-101-517 | ELECT | 16V | 100uF-M |
| C 859 | 1862-101-517 | ELECT | 16V | 100uF-M |
| C 833 | 1862-2R2-804 | ELECT | 50V | 2.2uF-M |
| C 849 | 1862-2R2-804 | ELECT | 50V | 2.2uF-M IB |
| C 820 | 1862-3R3-804 | ELECT | 50V | 3.3uF-M |
| C 832 | 1862-3R3-804 | ELECT | 50V | 3.3uF-M |
| C 867 | 1862-3R3-804 | ELECT | 50V | 3.3uF-M |
| C 812 | 1862-470-404 | ELECT | 16V | 47uF-M |
| C 829 | 1862-470-404 | ELECT | 16V | 47uF-M |
| C 847 | 1862-470-404 | ELECT | 16V | 47uF-M IB |
| C 856 | 1862-470-404 | ELECT | 16V | 47uF-M |
| C 821 | 1862-4R7-804 | ELECT | 50V | 4.7uF-M |
| C 825 | 1862-R47-804 | ELECT | 50V | 0.47uF-M |
| C 836 | 1862-R47-804 | ELECT | 50V | 0.47uF-M |
| C 806 | 1872-471-731 | STYROL | 50V | 470pF-J |
| C 811 | 1876-102-811 | POLYESTER | 100V | 0.001uF-K |
| C 834 | 1876-473-811 | POLYESTER | 100V | 0.047uF-K |
| C 819 | 1876-124-811 | POLYESTER | 100V | 0.12uF-K |

WAFERS

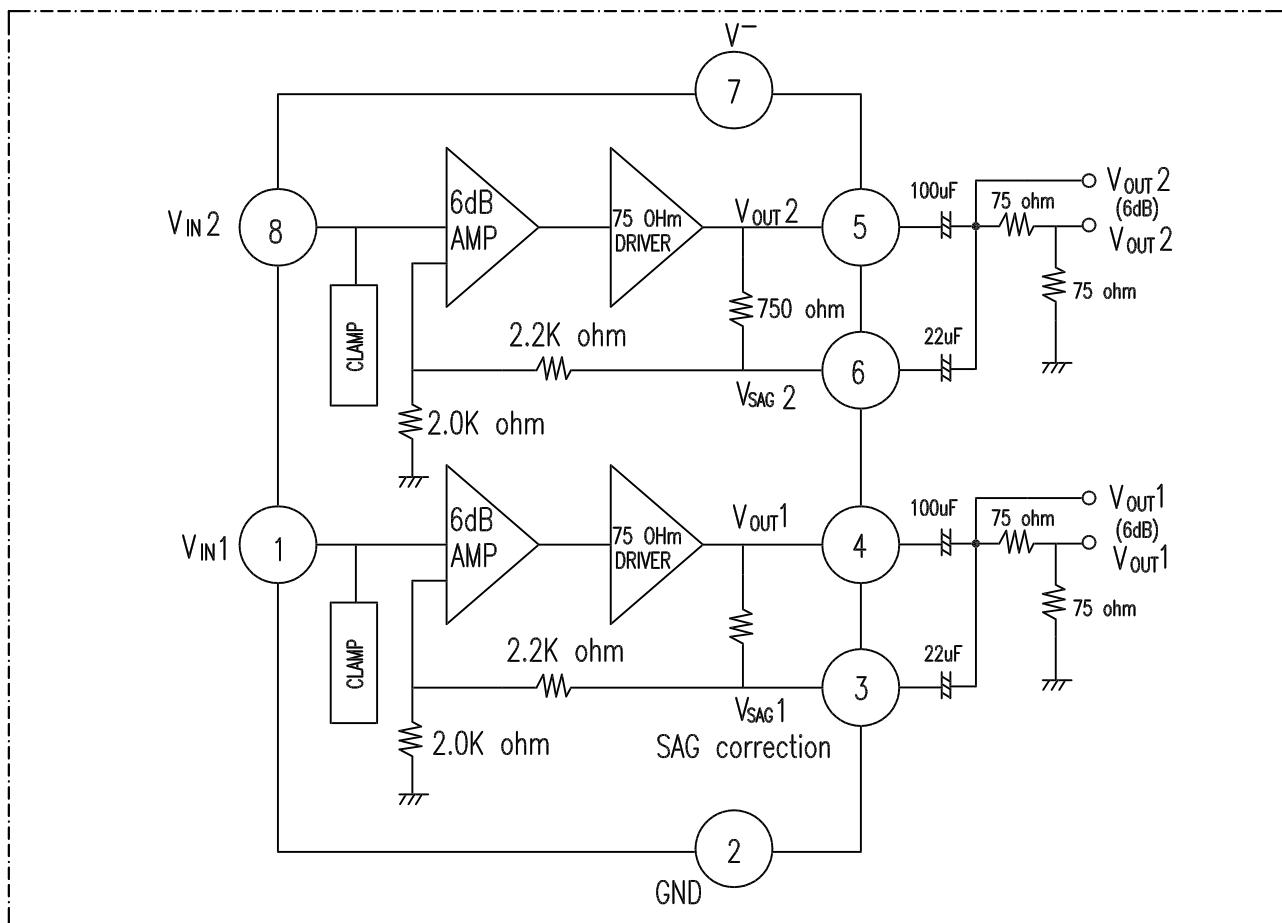
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|--------|--------------|-----|-----------|
| WA 809 | 2111-023-004 | 4P | 5267-04A |
| WA 807 | 2111-023-008 | 8P | 5267-08A |
| WA 808 | 2111-023-009 | 9P | 5267-09A |
| WA 802 | 2121-605-006 | 6P | JE-605-06 |
| WA 801 | 2121-605-010 | 10P | JE-605-10 |
| WA 899 | 2111-023-002 | 2P | 5267-02A |

IC BLOCK DIAGRAMS

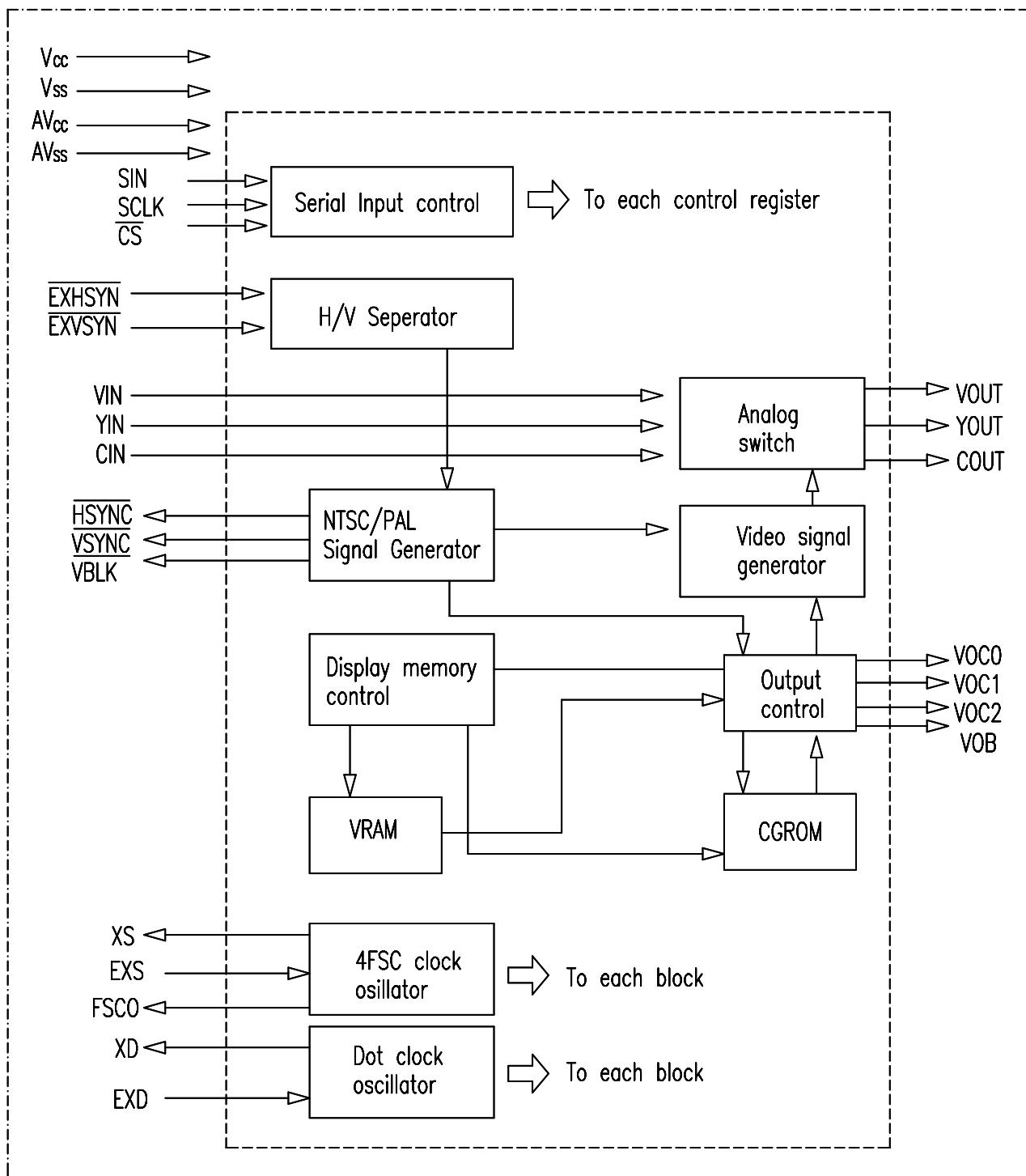
IC 352 : NJM 2267
VIDEO SWITCHING



IC 353 : BA7622F
VIDEO 6dB AMPLIFIER

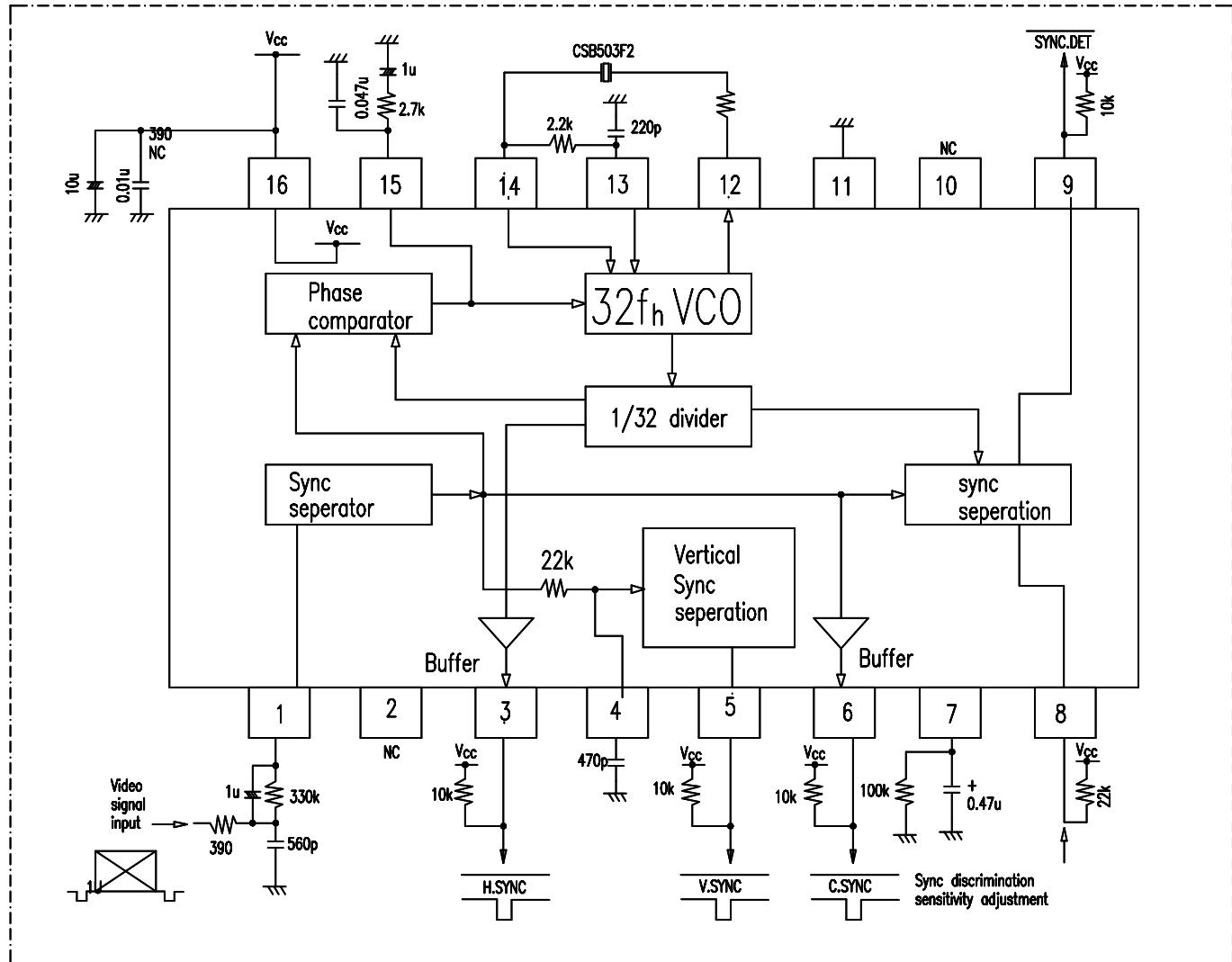


IC354 : MB90089
ON-SCREEN DISPLAY



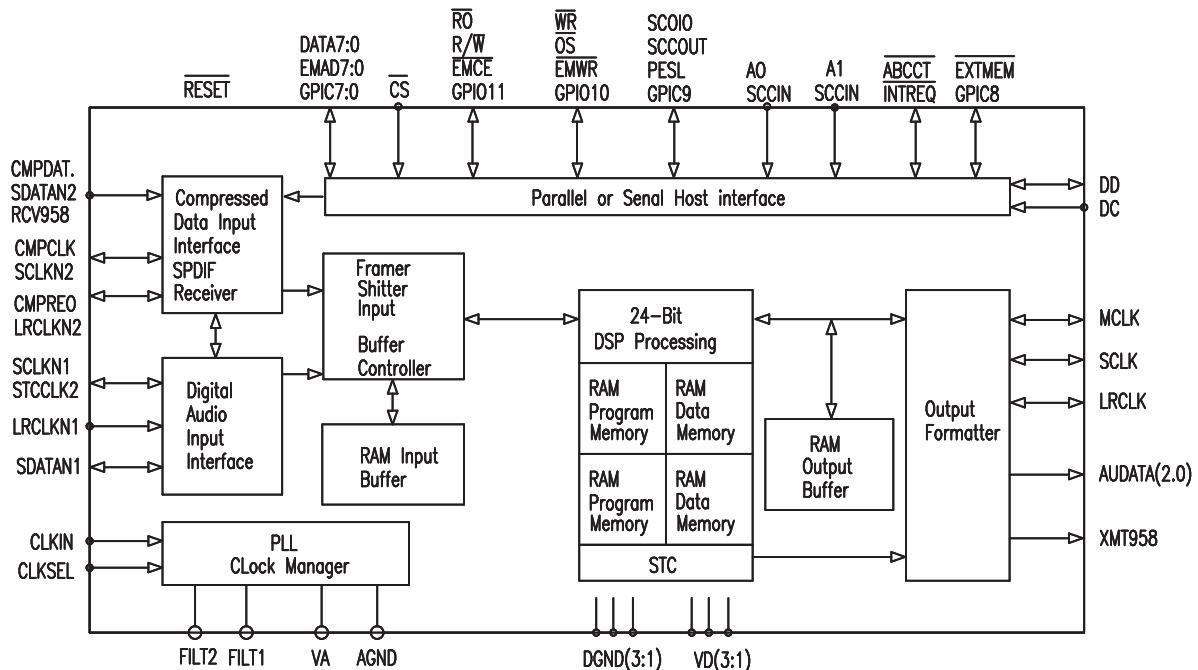
IC 355 : MM1067

NO-ADJUSTMENT SYNC SEPERATOR & SYNC DETECTOR



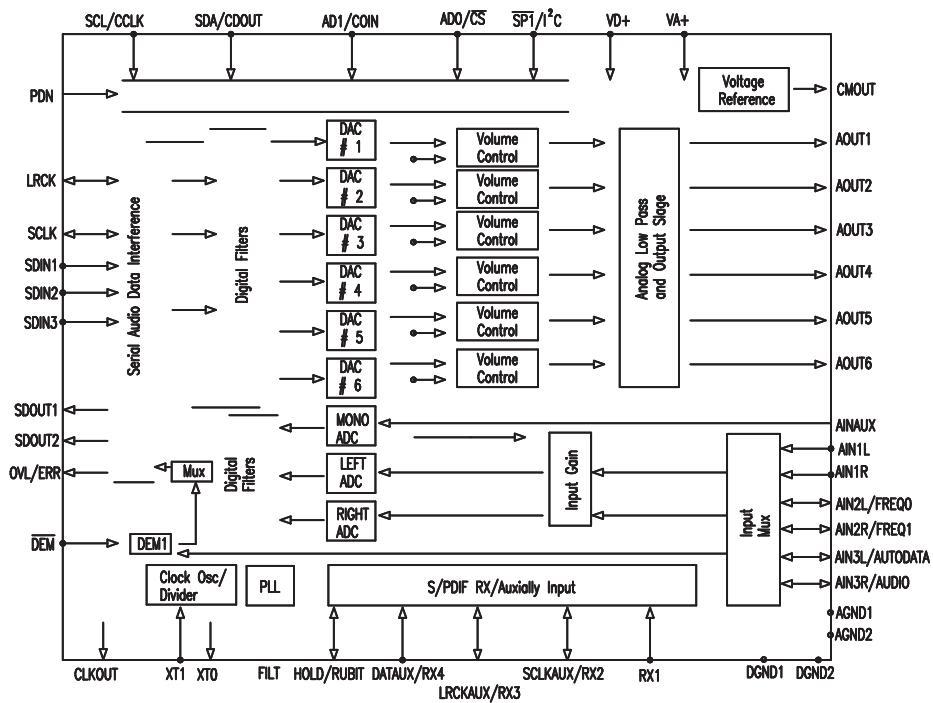
IC710 : CS4923 CS4926

AC-3 DECODER

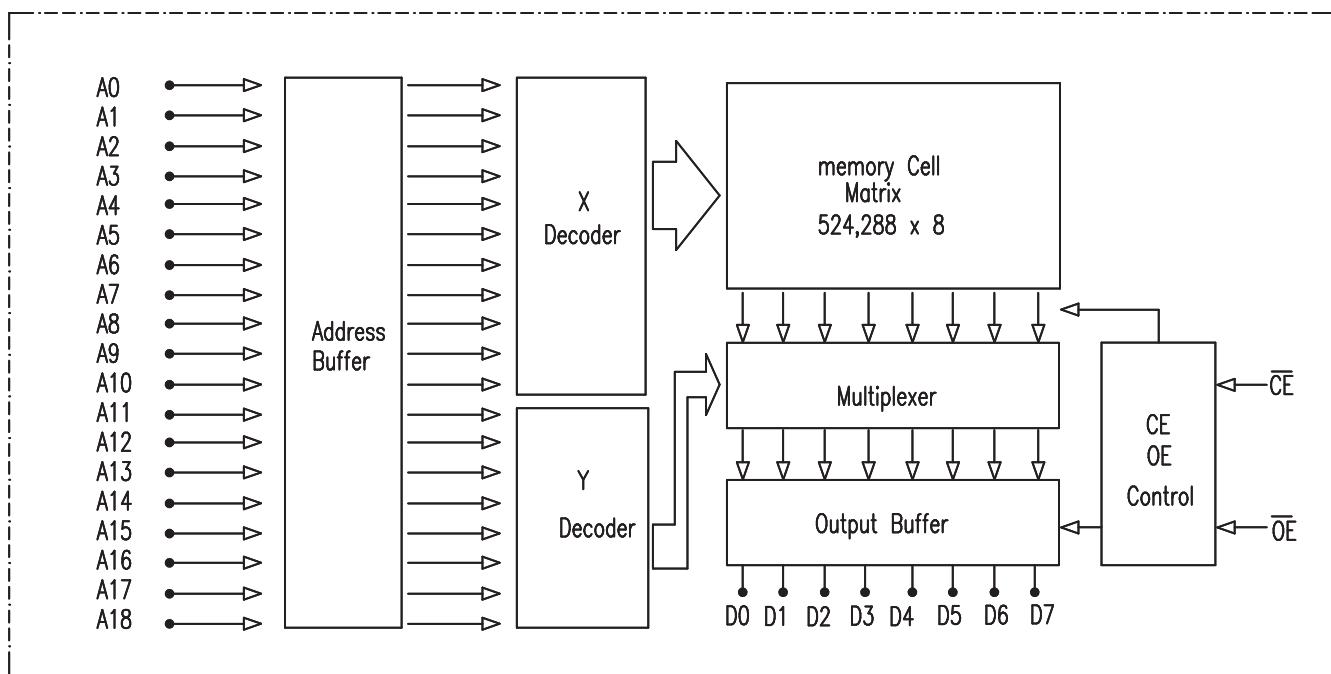


IC709 : CS4226

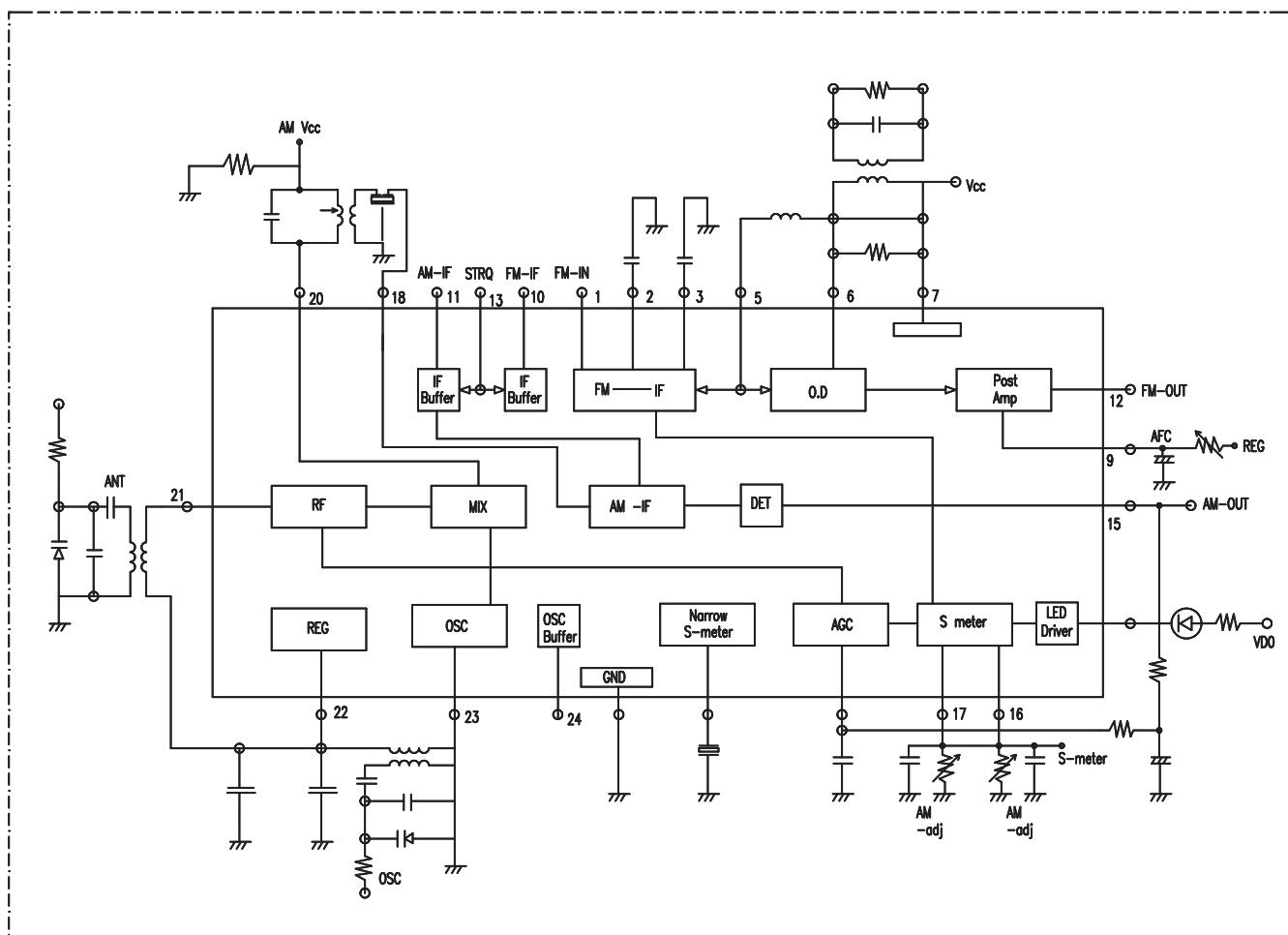
SURROUND SOUND CODEC



IC713 : MSM534031C
ROM IC

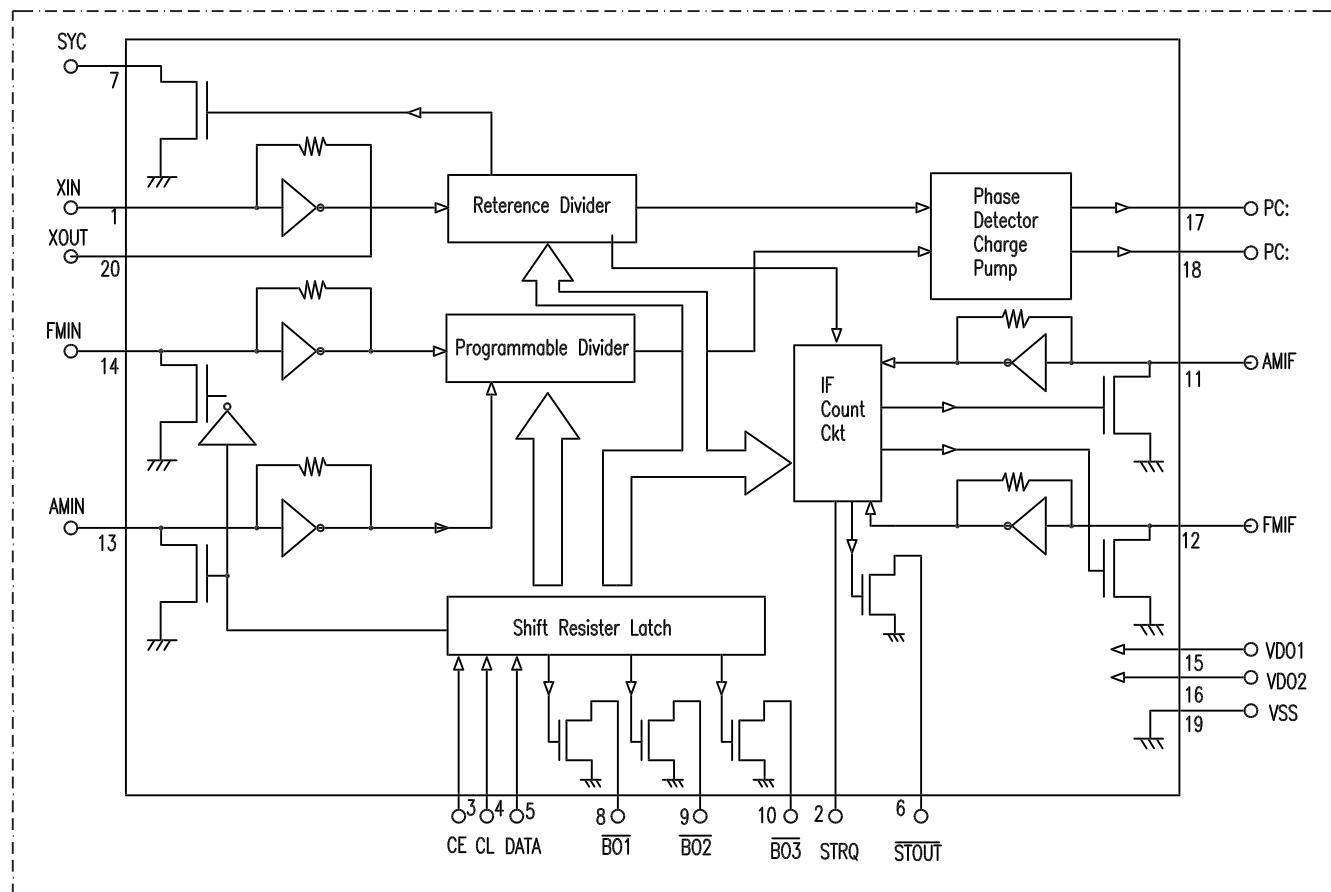


IC801 : LA1266
FM/AM IF



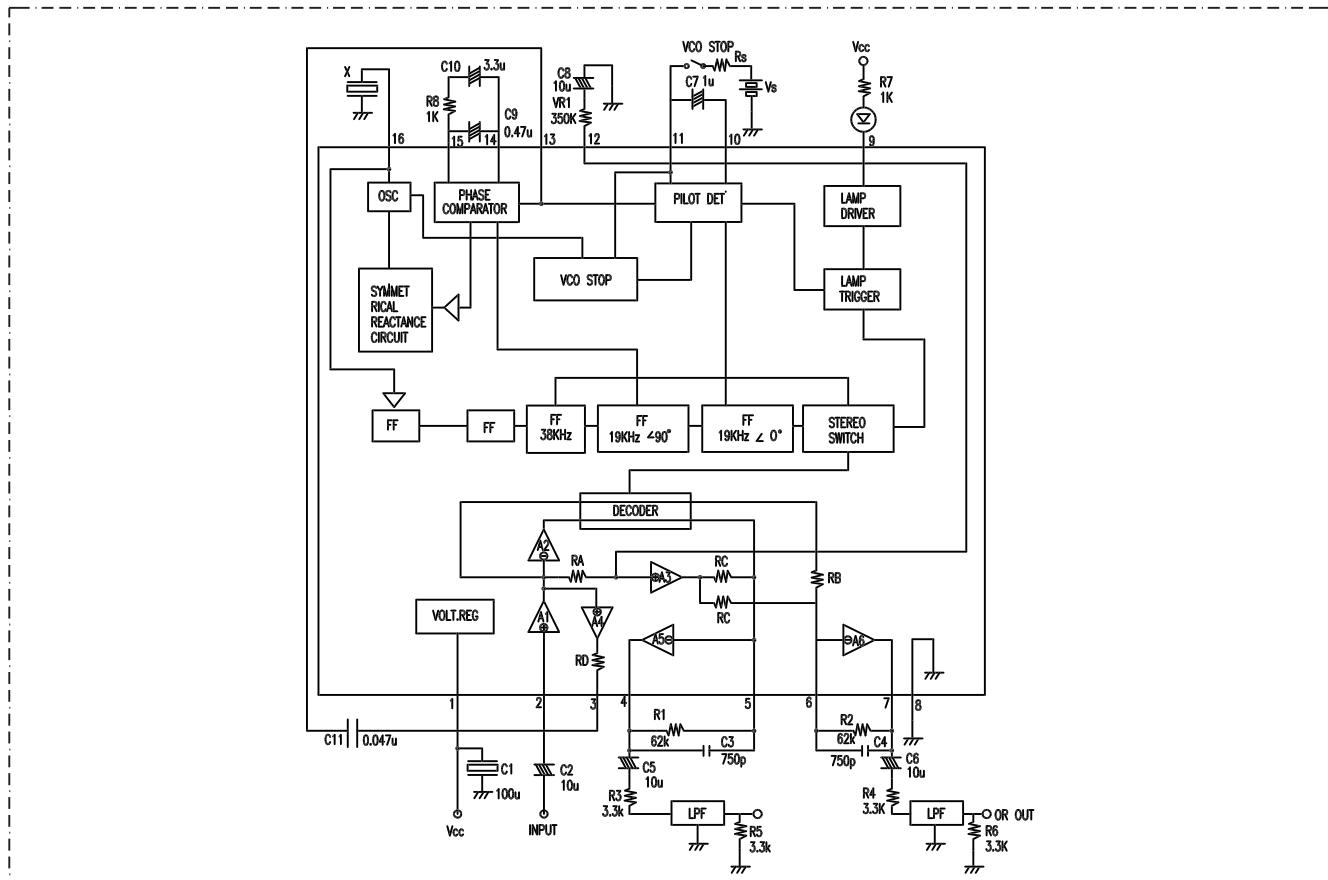
IC804 : LM7000

PLL FREQ. SYNTHESIZER

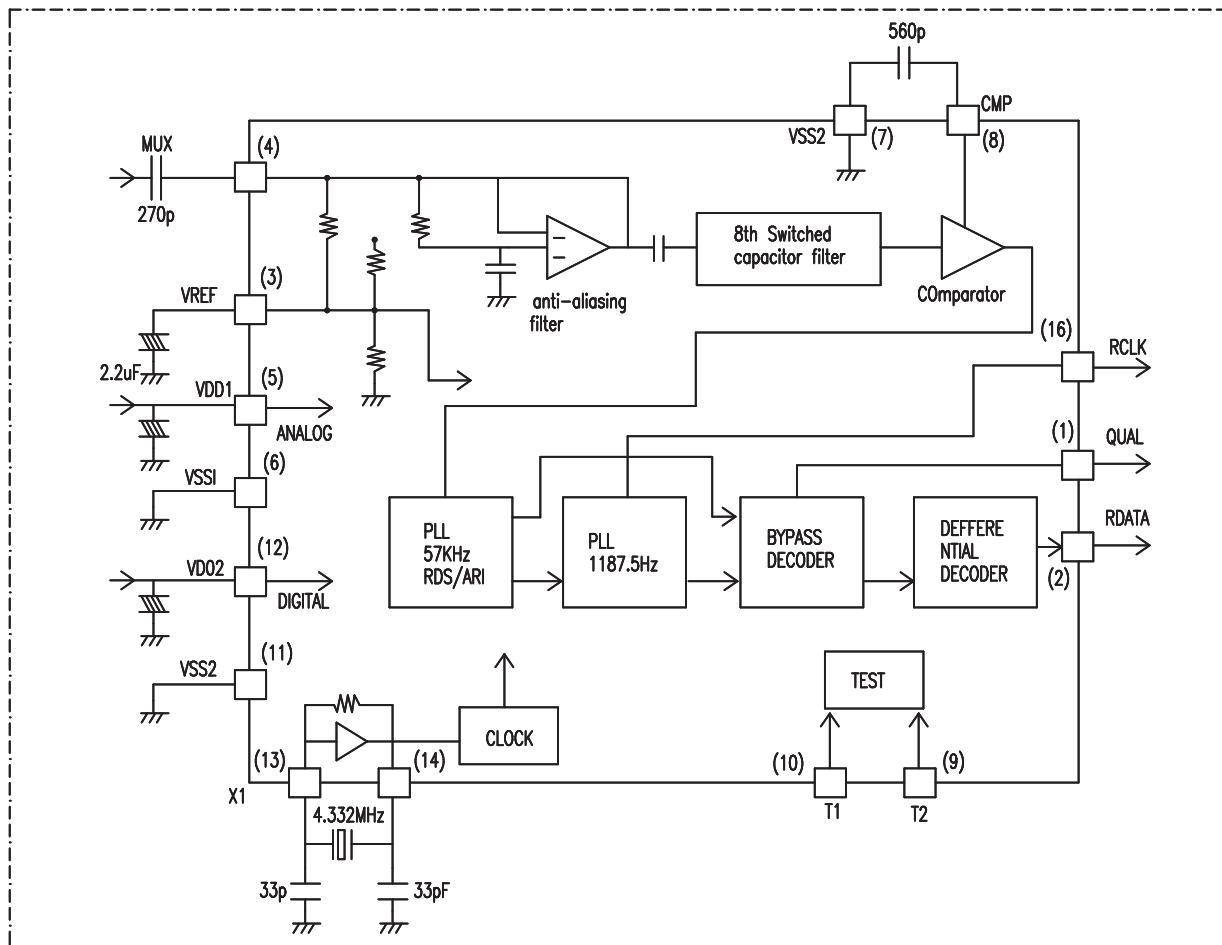


IC803 : LA3410

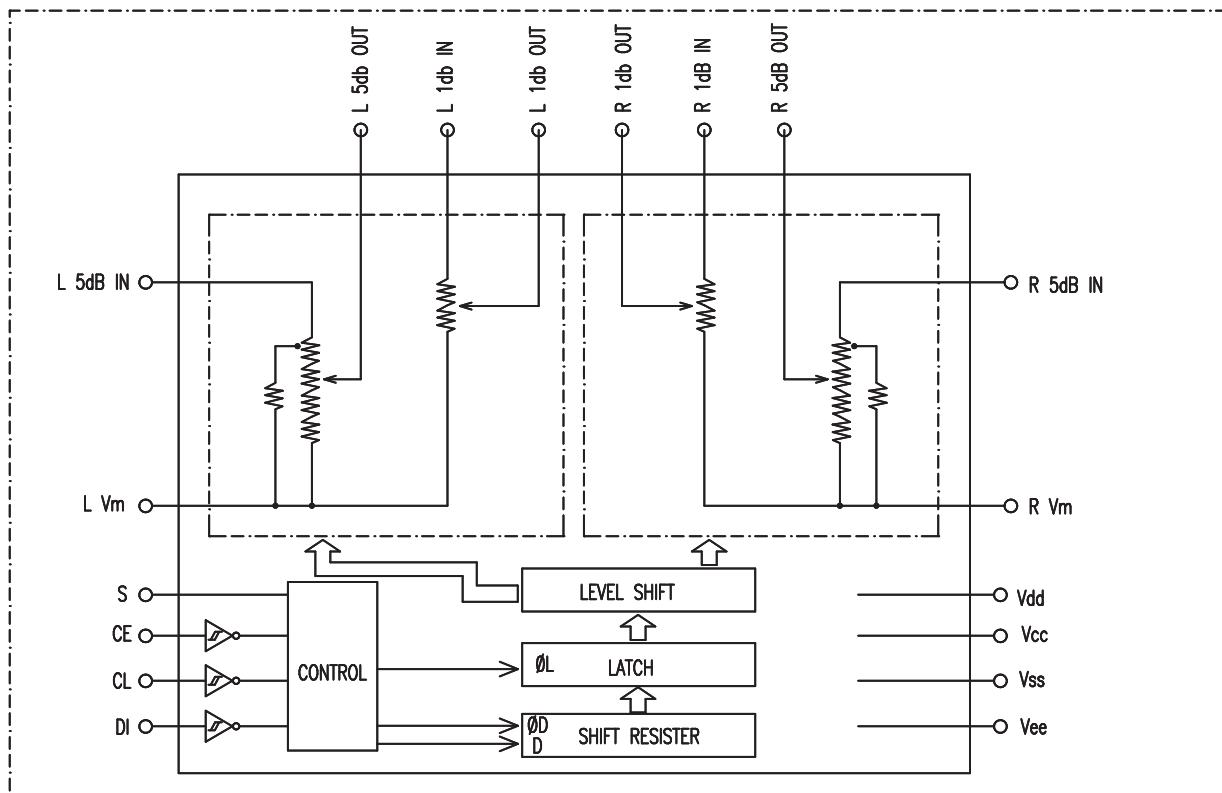
MPX DEMODULATOR



IC804 : BU1923
RDS DECODER (IB)



IC 106, 109, 114, 117 : LC7536
ELECTRONIC VOLUME CONTROL



IC351, 371, 372 : LA7951
VIDEO SWITCH

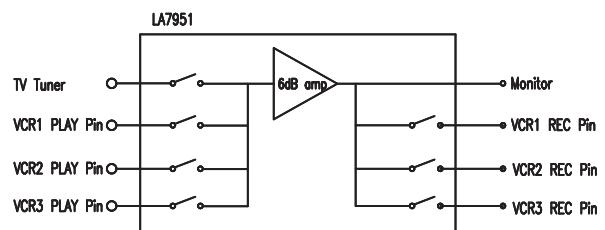


Figure 1. Editing System Switch Connections

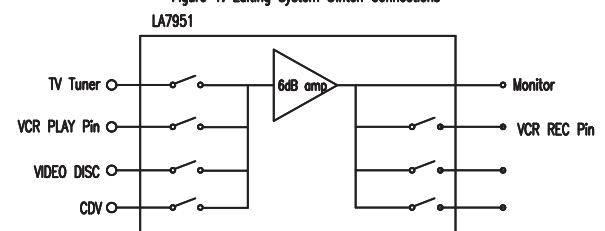
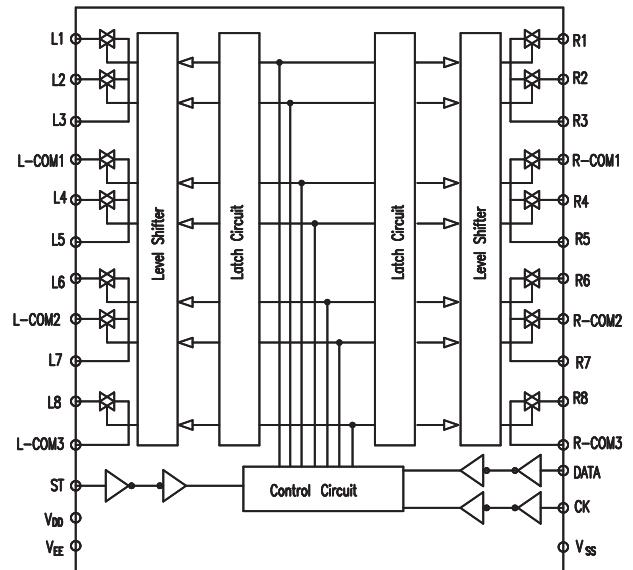
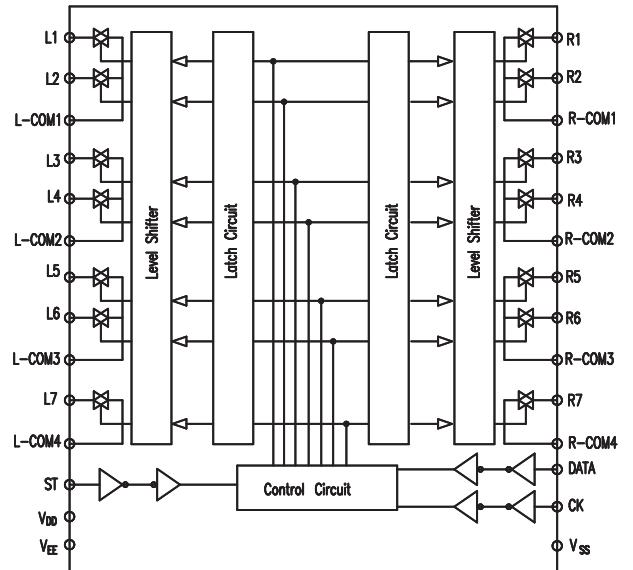


Figure 2. Video Selector Switch Connections

IC 101 : NJU7312
ANALOG FUNCTION SW.



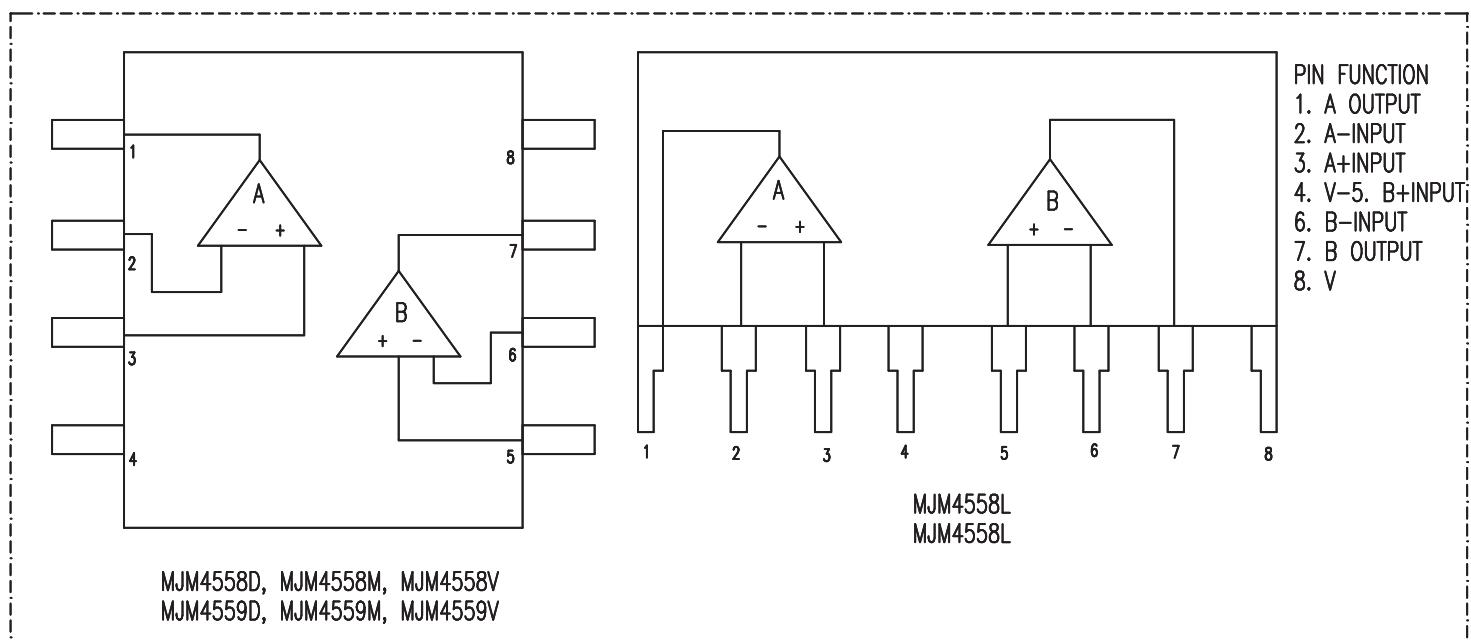
IC 105, 113 : NJU7311
ANALOG FUNCTION SW.



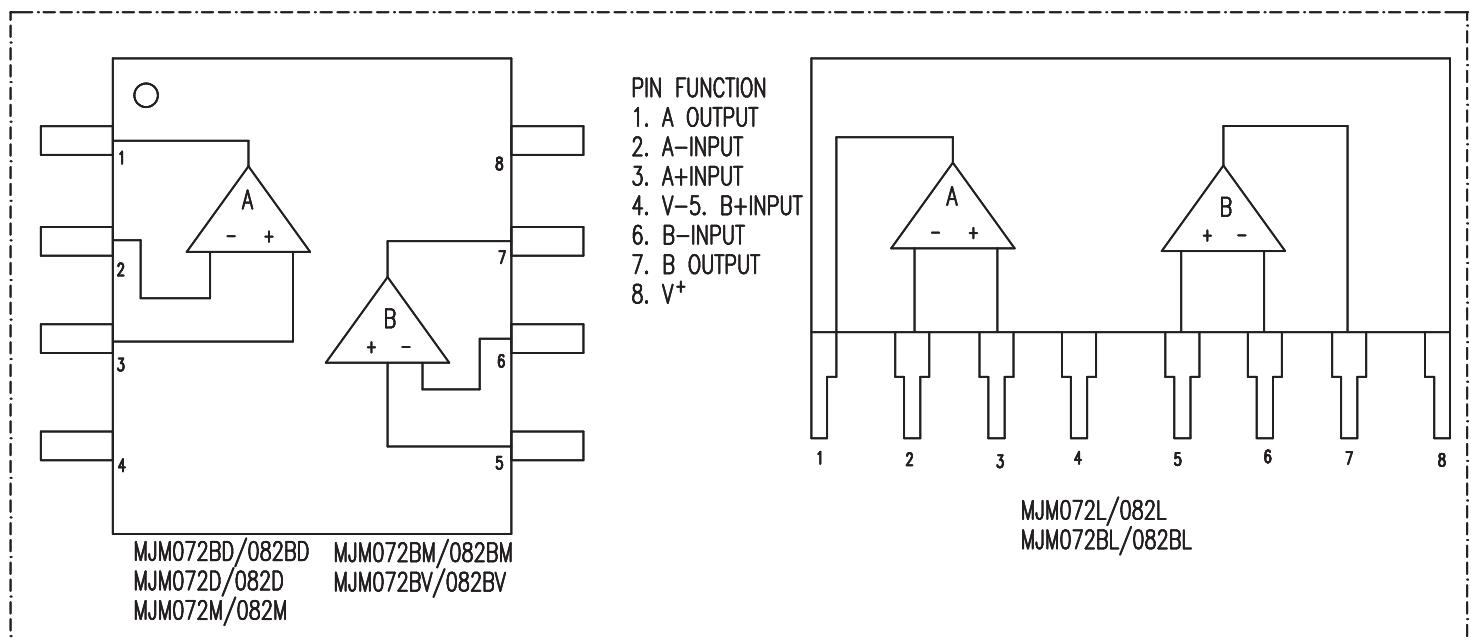
IC 103,104,107,108,110,111,112,115,116,118,119,120,702,703
704,708,723,724,725,726,902 :

NJM4558L/NJM4668M

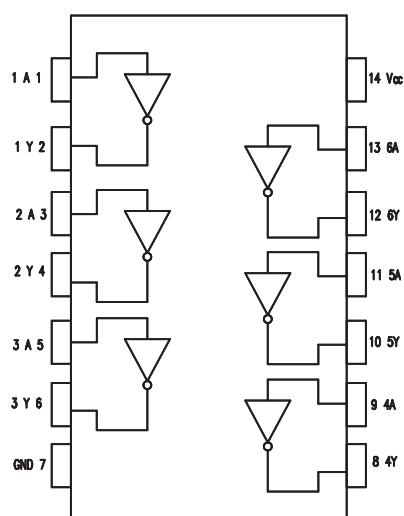
DUAL OP-AMP



IC 701,705,706,707 :NJM072M
DUAL J-FET INPUT OP-AMP

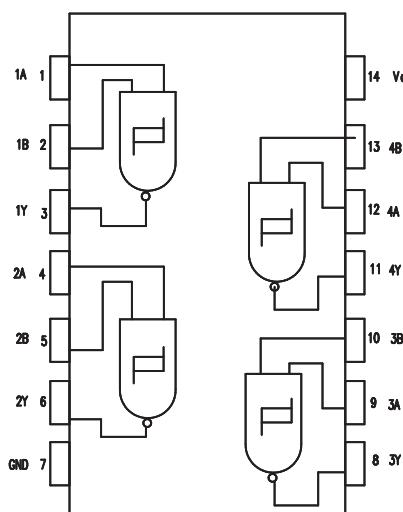


IC 712 : 74VHC04F
HEX INVERTER



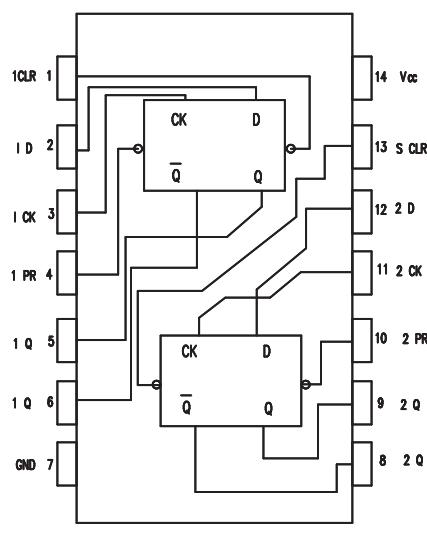
(TOP VIEW)

IC 711, 714 : TC74VHC244F
OCTAL BUS BUFFER
WITH NONINVERTED 3-STATE OUTPUTS



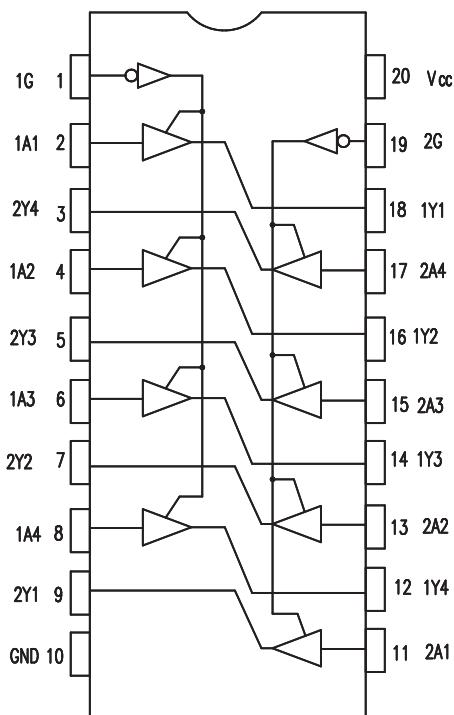
(TOP VIEW)

IC 717 : TC74VHC74F
DUAL D-FLIP FLOP



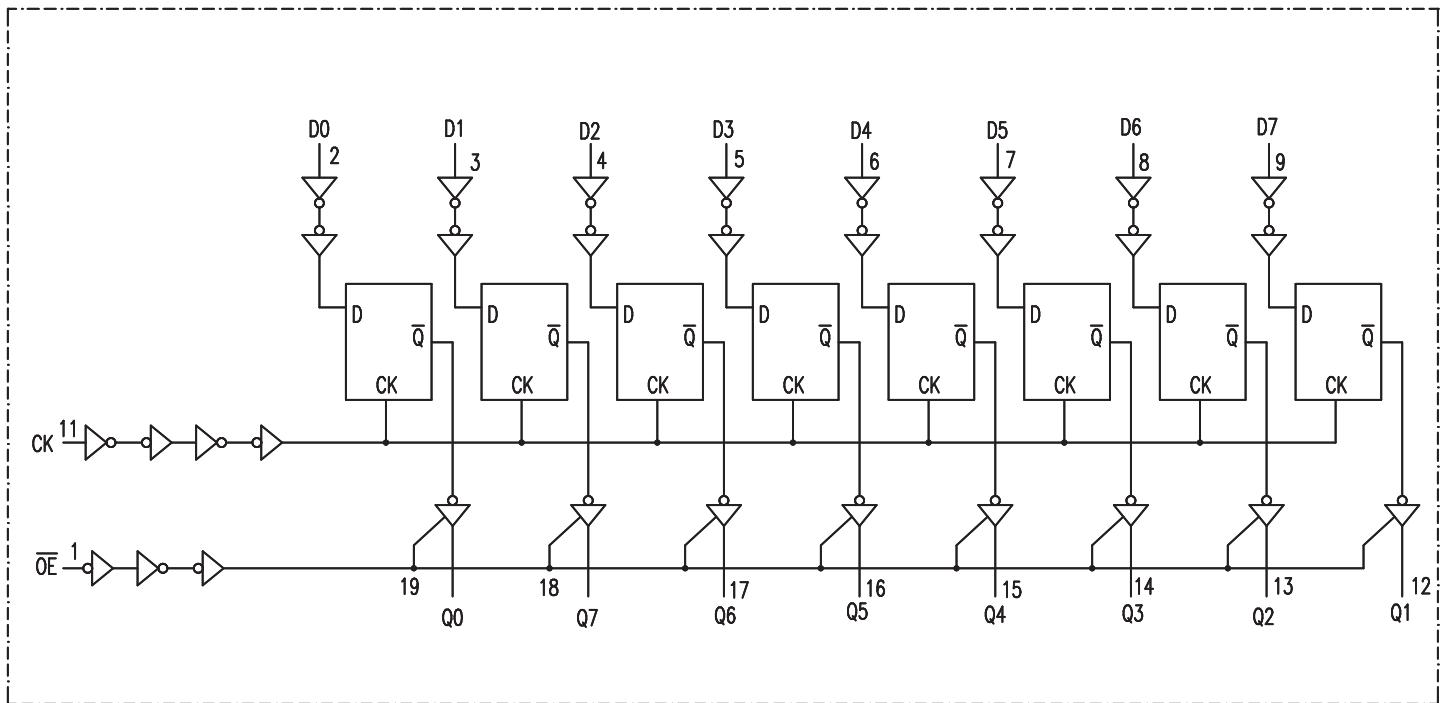
(TOP VIEW)

IC 719 : TC74VHC132F
QUAD 2-INPUT SCHMITT NAND GATE

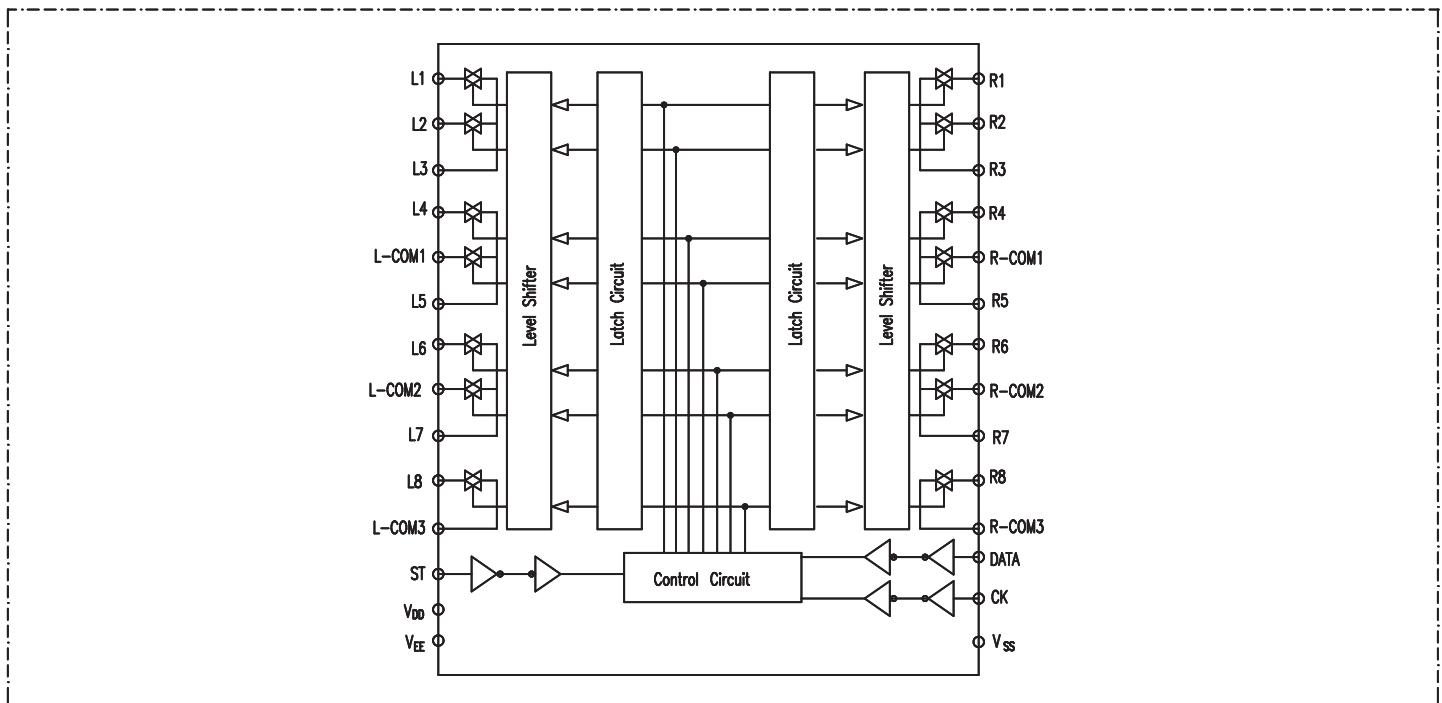


(TOP VIEW)

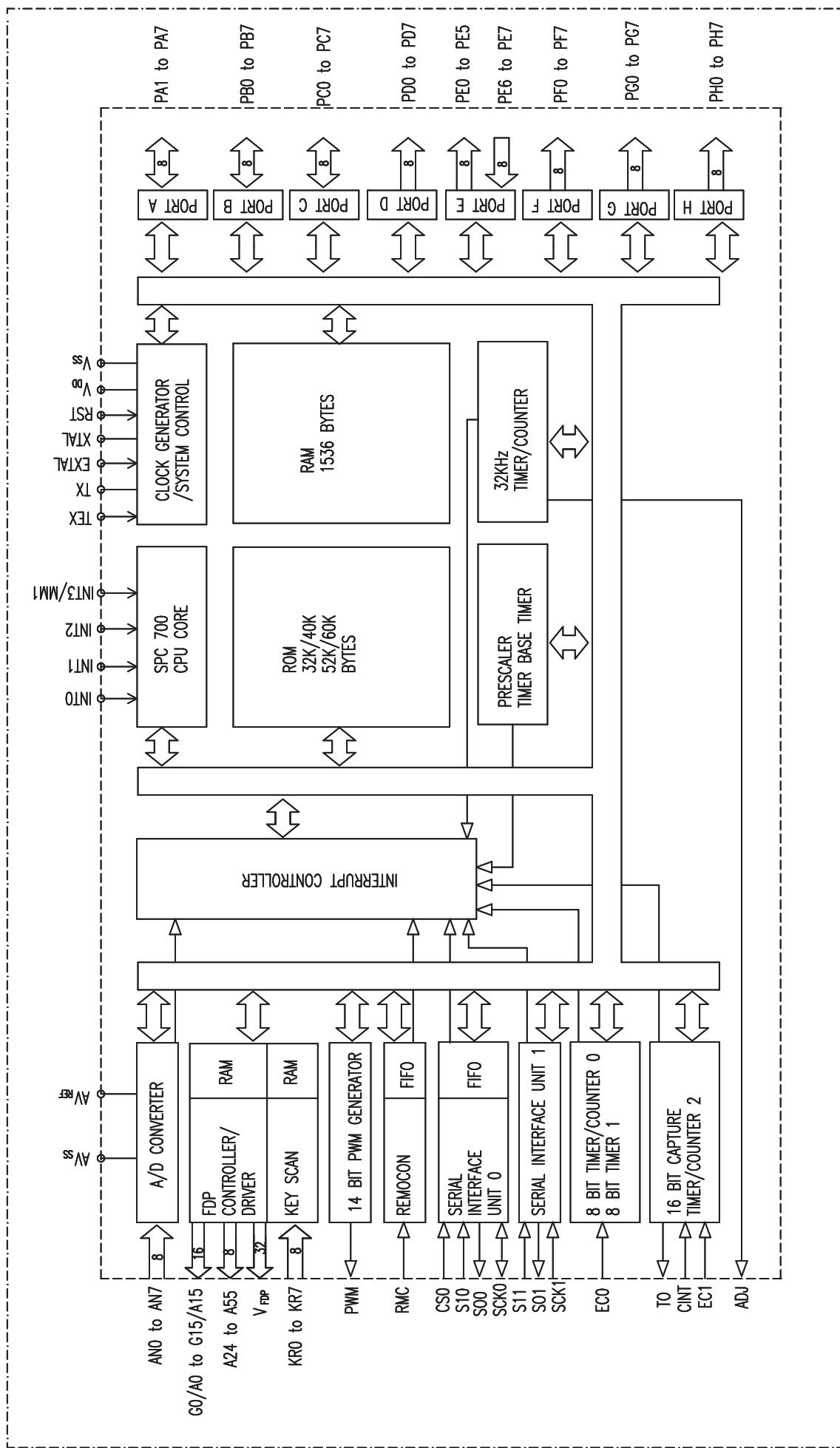
IC 715, 716 : TC74VHC574F
OCTAL D-TYPE FLIP-FLOP WITH 3-STATE OUTPUT



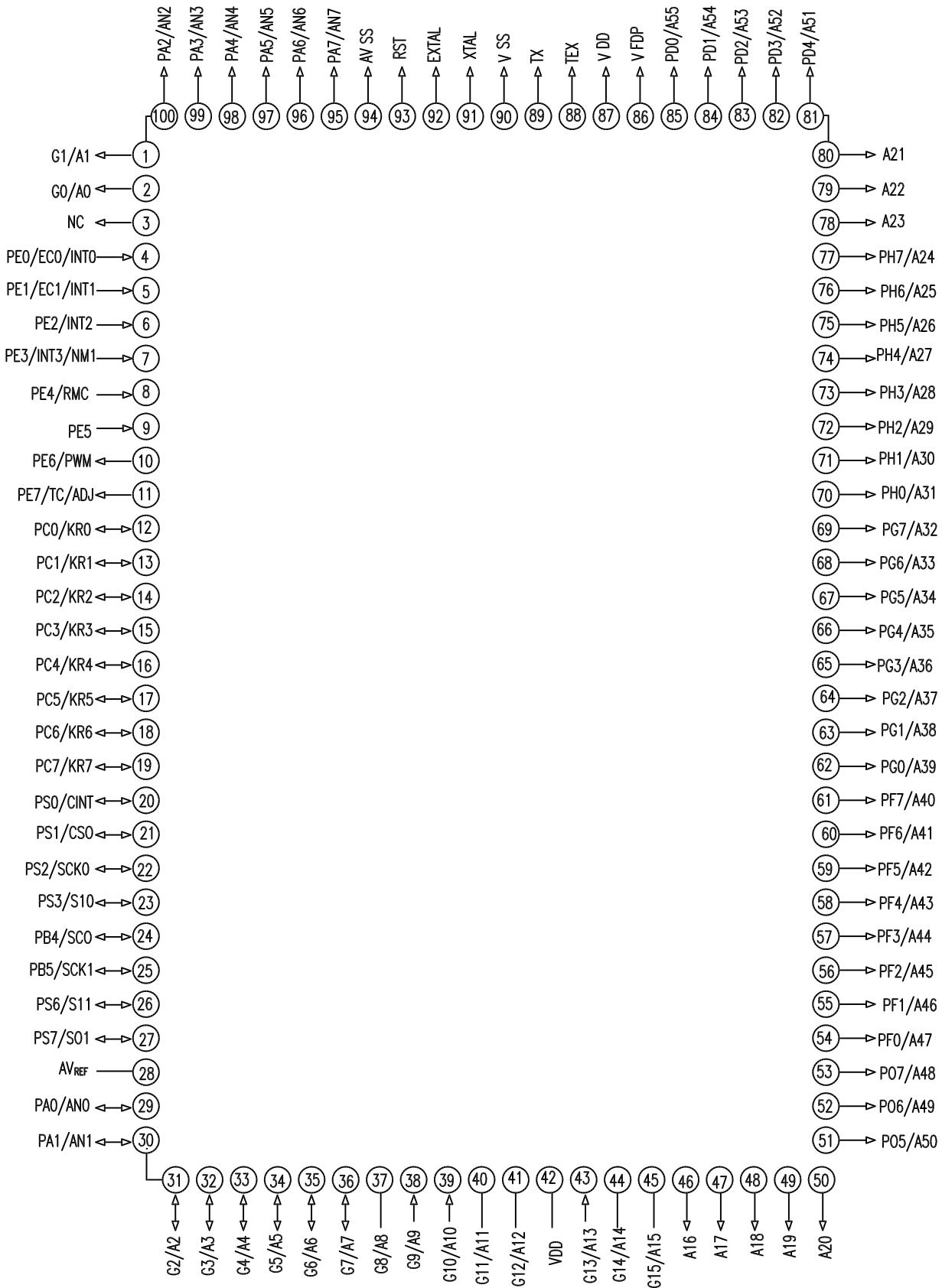
IC 102 : NJU7313
ANALOG FUNCTION SW.



IC901 : CXP82852 BLOCK DIAGRAM



IC 901 : PIN DESCRIPTION



AC-3/DTS RDS RECEIVER CPU PIN CONFIGURATION

| GRID | | | | | | | | | | | | | | SEGMENT/KEYSCAN | | | | | | | | | |
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1. KEY MATRIX

| | KS0 (81) | KS1 (80) | KS2 (79) | KS3 (78) | KS4 (77) | KS5 (76) | KS6 (75) | KS7 (74) |
|-------------|---------------------|-------------------|-------------------|--------------------|-------------------|------------------------|----------------------|-----------------------|
| KR0 (16) | TAPE 0. MONITOR | 4. CD | 8. DVD | C. VID1 | 10. VID2 | 14. VID3 | 18. 6CHANNEL | 1C. AM/FM |
| KR1 (17) | TUNING 1. -DOWN | TUNING 5. -UP | PRESET 9. SCAN | PRESET D. -DOWN | PRESET 11. -UP | (RDS) 15. TUN. MODE | DOLBY 19. DIGITAL | DOLBY 1D. PROLOGIC |
| KR2 (18) | DOLBY 2. 3STEREO | 6. HALL1 | A. HALL2 | E. THEATER | 12. DTS | SURR. 16. OFF | 1A. MUTE | 1E. |
| KR3 (19) | 3. SPEAKER | MULTI 7. -ROOM | DIG. B. SELECT | F. DELAY | DOWN 13. (◀) | UP 17. (▶) | 1B. SET | 1F. POWER |

2. OPTION DEFINITION

| | OP0 (73) | OP1 (72) |
|-------------|-------------|-------------|
| KR0 (16) | OPTION1 | OPTION5 |
| KR1 (17) | OPTION2 | |
| KR2 (18) | OPTION3 | OPTION6 |
| KR3 (19) | OPTION4 | OPTION7 |

- 1) OPTION1 : Not used
 2) OPTION2(RDS) : LOW(OPEN) NO FUNCTION
 HIGH(DIODE) FUNCTION

3) OPTION4, OPTION3(MODEL SELECT-1) :

| OPTION4 | OPTION3 | MODEL |
|---------|---------|-------------------------------|
| LOW | LOW | AVR-35/AVR-45(refer. OPTION7) |
| LOW | HIGH | AVR-65 |

4) OPTION5(BAND) : LOW(OPEN) USA 87.5~108.0 , 520~1710
 HIGH(DIODE) EUROPE 87.50~108.00 , 522~1611

5) OPTION6(TV MODE) : LOW(OPEN) NTSC
 HIGH(DIODE) PAL

6) OPTION7(MODEL SELECT-2) : LOW(OPEN) AVR-45
 HIGH(DIODE) AVR-35(Except 6-CH)

3. CS4226, CS4926 PORT INITIAL

- 1)CS4226 : PIN7 SPI/I2C PULL-DOWN(GND)
 2)CS4926 : PIN4 WR PULL-DOWN(GND)
 PIN5 RD PULL-UP(+3.3V)

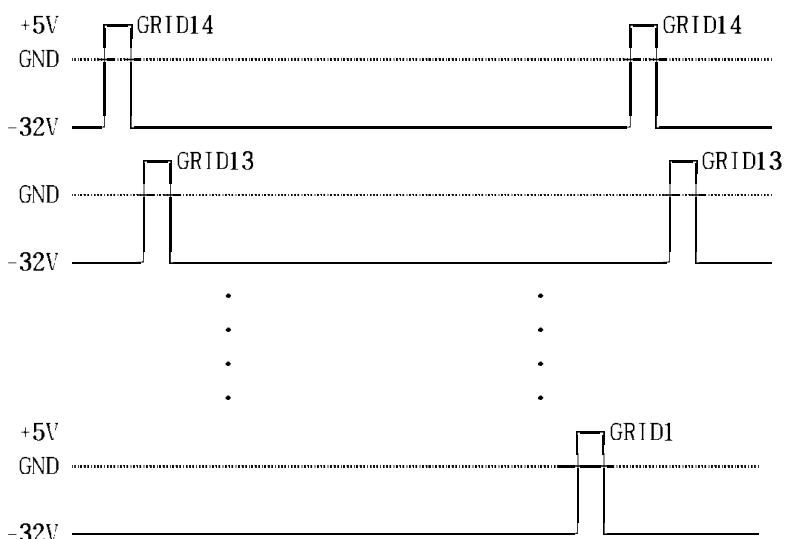
4. IN/OUT PORT DESCRIPTION

| Pin No. | Description | IN/OUT | Active | Function |
|---------|--------------------------|--------|--------|--|
| 1 | GR1D2 | OUT | H | VFD GRID OUTPUT. (+5V ~ -32V) |
| 2 | GR1D1 | OUT | H | |
| 3 | NC | IN | H | +5V SUPPLY. |
| 4 | M-R REMOCON INPUT | IN | * | REMOTE INPUT FROM EXTERNAL MULTI-ROOM REMOTE MODULE. [ONLY 65 SERIES] |
| 5 | RDS CLOCK | IN | * | RDS CLOCK INPUT. [ONLY RDS VERSION] |
| 6 | CS4923 INTREQ | IN | L | SINGLE PULSE INPUT DURING OPTICAL/COAXIAL DIGITAL SELECTION. |
| 7 | EXTERNAL VIDEO INPUT | IN | L | ACTIVE WHEN VIDEO INPUT IS DETECTED FROM VIDEO FUNCTION. (DVD/VIDEO1/VIDEO2/VIDEO3) [ONLY 65 SERIES] |
| 8 | REMOCON IN | IN | * | INPUT FROM REMOTE SENSOR IN FRONT OR MULTI-ROOM REMOTE CONTROL. |
| 9 | RDS DATA | IN | * | RDS DATA INPUT. [ONLY RDS VERSION] |
| 10 | MB90089 OSD DATA | OUT | * | OSD CONTROL SIGNAL OUTPUT. [ONLY 65 SERIES] |
| 11 | MB90089 OSD CLOCK | OUT | * | |
| 12 | 7311/7312/ 7313 DATA | OUT | * | CONTROL SIGNAL OUTPUT WHILE SELECTING FUNCTION OR SURROUND MODE. |
| 13 | 7311/7312/ 7313 CLOCK | OUT | * | |
| 14 | 7536 DATA | OUT | * | CONTROL SIGNAL OUTPUT DURING TURNING VOLUME. |
| 15 | 7536 CLOCK | OUT | * | |
| 16 | KR0 | IN | H | HIGH PULSE INPUT WHILE ANY ONE FUNCTION FROM TAPE MONITOR, CD, DVD, VIDEO1, VIDEO2, VIDEO3, 6-CHANNEL AND AM/FM KEY IS SELECTED. |
| 17 | KR1 | IN | H | HIGH PULSE INPUT WHILE ANY KEY FROM TUNING-DOWN, TUNING-UP, PRESET SCAN, PRESET-DOWN, PRESET-UP, TUNING MODE(RDS), DOLBY DIGITAL AND DOLBY PROLOGIC IS SELECTED. |
| 18 | KR2 | IN | H | HIGH PULSE INPUT WHILE ANY ONE KEY FROM THE DOLBY 3 STEREO, HALL1, HALL2, THEATER, TEST-TONE(DTS), SURR OFF AND MUTE KEY IS SELECTED. |
| 19 | KR3 | IN | H | HIGH PULSE INPUT WHILE ANY ONE KEY FROM THE SPEAKER MODE, CHANNEL(MULTI-ROOM), DIGITAL SELECTION, DELAY TIME, DOWN, UP, SET AND POWER KEY IS SELECTED. |
| 20 | ENCODE UP | IN | * | PULSE INPUT WHEN MASTER VOLUME IN FRONT PANEL IS TURNED UP AND DOWN. |
| 21 | ENCODE DOWN | IN | * | THERE IS 90° PHASE DIFFERENCE BETWEEN ENCODER UP AND DOWN. |
| 22 | 4226/4923/ 7000 DATA | OUT | * | COMMON PORT FOR CONTROL OF TUNER PLL(LM7000), DSP(CS4923), CODEC(CS4226) FOR EXAMPLE, CONTROL SIGNAL OF FREQUENCY SELECTION |
| 23 | 4226/4923/ 7000 CLOCK | OUT | * | AT TUNER PLL, FUNCTION SELECTION, SURROUND MODE, SPEAKER MODE, CHANNEL SELECTION, DIGITAL SELECT, DELAY TIME ADJUSTMENT ETC. |
| 24 | 4923 DATA INPUT | IN | * | PULSE INPUT FROM DSP IC AT OPTICAL/COAXIAL DIGITAL SELECTION. |
| 25 | 4226 DATA INPUT | IN | * | PULSE INPUT FROM CODEC IC AT OPTICAL/COAXIAL DIGITAL SELECTION. |
| 26 | TAPE MONITOR LED | OUT | H | OUTPUT WHEN TAPE MONITOR IS ON. |
| 27 | POWER MUTE | OUT | L | PULSE OUTPUT WHILE FUNCTION OR SURROUND MODE IS SELECTED AT POWER-ON OR HEAD PHONE JACK IN STATUS. |

| Pin No. | Description | IN/OUT | Active | Function |
|---------|------------------|--------|--------|--|
| 28 | AVref | IN | H | +5V SUPPLY |
| 29 | DOLBY CFG2 | OUT | H | HIGH AT CONFIGURATION 2 IN DOLBY DIGITAL AND SUB-WOOFER OFF IN DTS. CONFIGURATION 2 IS AS BELOW: SPEAKER MODE : FRONT CENTER SURROUND SUBWOOFER LARGE SMALL SMALL ON/OFF LARGE SMALL NONE ON/OFF LARGE NONE SMALL ON/OFF LARGE NONE NONE ON/OFF NOTE: NO RELATION WITH DOLBY PRO LOGIC MODE. |
| 30 | FM 98.3 | OUT | H | HIGH WHILE TUNER FREQUENCY IS 98.30MHz. |
| 31 | HEAD-PHONE INPUT | IN | H | HIGH WHILE HEAD-PHONE JACK IS INSERTED. |
| 32 | PROTECT | IN | L | LOW INPUT AT PROTECTION MODE. THIS CAN BE RESET BY POWER ON AGAIN AFTER TAKING OFF PROTECTION PROBLEMS. |
| 33 | POWER OFF | IN | L | LOW INPUT WHILE DETECTING POWER OFF |
| 34 | TUNED | IN | L | LOW INPUT WHEN STATION IS TUNED. |
| 35 | STEREO | IN | L | LOW WHEN THE TUNER RECEPTION IS STEREO. |
| 36 | 7000 SOUT | IN | L | LOW PULSE INPUT WHILE STATION IS TUNED AT AUTO-TUNING MODE. |
| 37 | AVSS | IN | L | GND. |
| 38 | RESET | IN | L | LOW PULSE INPUT AT THE MOMENT OF POWER ON AND OFF. BACKUP IS ACTIVATED ONLY WHEN THIS PORT IS HIGH AT POWER OFF (POWER OFF PORT IS LOW). |
| 39 | EXTAL | IN | * | u-COM X-TAL INPUT. (9.8304MHz) |
| 40 | XTAL | IN | * | |
| 41 | VSS | IN | L | GND. |
| 42 | TX | IN | open | OPEN |
| 43 | TEX | IN | L | GND. |
| 44 | VDD | IN | H | +5V POWER SUPPLY. BACKUP IS ACTIVATED WHEN THIS PORT IS HIGH AT POWER OFF (POWER OFF PORT IS LOW). |
| 45 | VFDP | IN | -32V | -32V POWER SUPPLY TO VFD |
| 46 | MEMORY ADDRESS16 | OUT | H/L | ADDR.17 ADDR.16 SURROUND MODE LOW LOW DOLBY DIGITAL/PROLOGIC/3 STEREO/SURR OFF LOW HIGH HALL1/HALL2/THEATER HIGH LOW DTS : ONLY 65 SERIES HIGH HIGH DTS : ONLY 65 SERIES |
| 47 | MEMORY ADDRESS17 | OUT | H/L | |
| 48 | CS4923 ABOOT | OUT | L | LOW PULSE OUTPUT WHILE ANY ONE FROM POWER, FUNCTION, SURROUND MODE OR DIGITAL SELECT IS SELECTED. |
| 49 | 4226/4923 RESET | OUT | L | |
| 50 | CS4923 CS | OUT | L | LOW PULE OUT WHILE ANY ONE FROM POWER, FUNCTION, SURROUND MODE, SPEAKER MODE, CHANNEL, DIGITAL SELECT AND DELAY TIME IS SELECTED. IT IS CHIP SELECTION PORT OF CS4923(DSP), CS4226(CODEC). |
| 51 | CS4226 CS | OUT | L | |
| 52 | VID MUTE | OUT | H | KEEP HIGH LEVEL FOR 4 SECONDS AT POWER-ON. |
| 53 | OSD CS | OUT | L | CONTROL SIGNAL OUTPUT FOR OSD IC. [ONLY 65 SERIES] |
| 54 | 7000 STRQ | OUT | H | HIGH PULSE OUT AT AUTO TUNING MODE. |
| 55 | 7000 CE | OUT | H | CONTROL SIGNAL OUTPUT WHILE THE FREQUENCY IS CHANGED AT TUNER FUNCTION. IT IS CHIP ENABLE PORT CONTROL OF LM7000. |

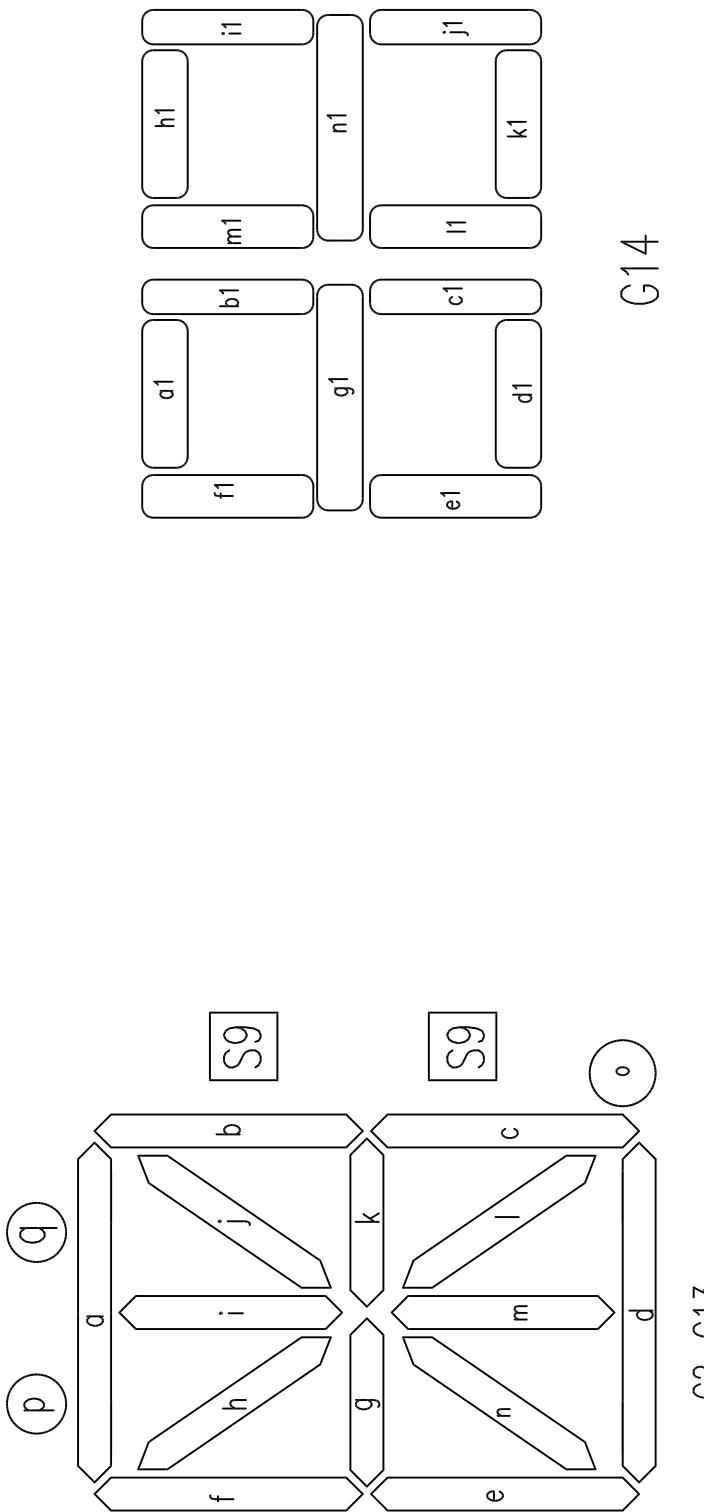
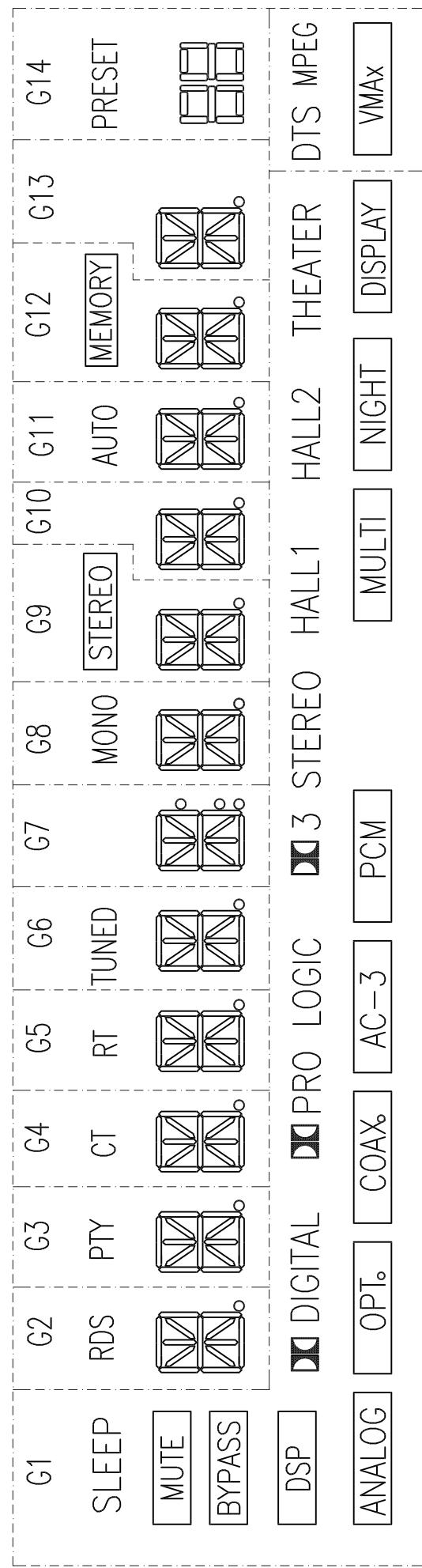
| Pin No. | Description | IN/OUT | Active | Function |
|---------|-----------------|--------|--------|---|
| 56 | TUNER MUTE | OUT | H | HIGH PULSE OUT WHILE THE FREQUENCY IS CHANGED AT TUNER FUNCTION. |
| 57 | 731* ST | OUT | H | STROBE(ENABLE) TO 7311-1, 7312, 7313 |
| 58 | 7311-2 ST | OUT | H | STROBE(ENABLE) TO 7311-2 |
| 59 | 7536 F&M | OUT | H | CHIP ENABLE OF FRONT L/R, MULTI-ROOM L/R VOLUME. HIGH PULSE OUTPUT AT VOLUME ADJUSTMENT. |
| 60 | 7536 C&S | OUT | H | CHIP ENABLE CENTER, SUB WOOFER, SURROUND L/R VOLUME, WHEN CONTROL THE VOLUME, IT WILL BE HIGH PULSE OUTPUT. |
| 61 | V1D-SEL1 | OUT | H/L | SEL2 SEL1 VIDEO FUNCTION LOW LOW VIDEO3 LOW HIGH VIDEO2 HIGH LOW DVD HIGH HIGH VIDEO1 |
| 62 | V1D-SEL2 | OUT | H/L | |
| 63 | V1D-SEL MU | OUT | L | LOW PULSE OUT AT SELECTING VIDEO FUNCTION. |
| 64 | SURROUND MUTE | OUT | L | LOW PULSE OUT AT SELECTING POWER, FUNCTION, SURROUND MODE, SPEAKER MODE AND DIGITAL SELECT. BUT LOW OUTPUT AT SELECTING SURROUND SPEAKER MODE "NONE". |
| 65 | SUBWOOFER MUTE | OUT | L | LOW PULSE OUT AT SELECTING POWER, FUNCTION, SURROUND MODE, SPEAKER MODE AND DIGITAL SELECT. BUT LOW OUTPUT AT SELECTING SUB-WOOFER MODE "NONE". |
| 66 | CENTER MUTE | OUT | L | LOW PULSE OUT AT SELECTING POWER, FUNCTION, SURROUND MODE, SPEAKER MODE AND DIGITAL SELECT. BUT LOW OUTPUT AT SELECTING CENTER SPEAKER MODE "NONE". |
| 67 | FRONT MUTE | OUT | L | LOW PULSE OUT AT SELECTING POWER, FUNCTION, SURROUND MODE, SPEAKER MODE AND DIGITAL SELECT. BUT LOW OUTPUT AT MUTE OR VOLUME LEVEL IS -64dB. |
| 68 | MULTI-ROOM MUTE | OUT | L | LOW PULSE OUT AT SELECTING MULTI-ROOM ON/OFF, MULTI-ROOM FUNCTION. BUT LOW OUTPUT AT MULTI-ROOM OR MULTI-ROOM LEVEL IS -64dB. (ONLY 65 SERIES) |
| 69 | POWER RELAY | OUT | H | HIGH OUTPUT AT STAND-BY POWER SWITCH ON |
| 70 | SEG18 | OUT | H | PULSE OUTPUT FOR VFD SEGMENT. (+5V ~ -32V) |
| 71 | SEG17 | OUT | H | |
| 72 | SEG16/ OPTION1 | OUT | H | HIGH PULSE OUT FOR CHECKING SYSTEM OPTION AT POWER ON, AND HIGH PULSE FOR VFD SEGMENT. (+5V ~ -32V) |
| 73 | SEG15/ OPTION0 | OUT | H | |
| 74 | SEG14/KS7 | OUT | H | PULSE OUTPUT FOR KEY SCAN AND VFD SEGMENT. (+5V ~ -32V) |
| 75 | SEG13/KS6 | OUT | H | |
| 76 | SEG12/KS5 | OUT | H | |
| 77 | SEG11/KS4 | OUT | H | |
| 78 | SEG10/KS3 | OUT | H | |
| 79 | SEG9/KS2 | OUT | H | |
| 80 | SEG8/KS1 | OUT | H | |
| 81 | SEG7/KS0 | OUT | H | |
| 82 | SEG6 | OUT | H | PULSE OUTPUT FOR VFD SEGMENT. (+5V ~ -32V) |
| 83 | SEG5 | OUT | H | |
| 84 | SEG4 | OUT | H | |

| Pin No. | Description | IN/OUT | Active | Function |
|---------|-------------|--------|--------|---|
| 85 | SEG3 | OUT | H | PULSE OUTPUT FOR VFD SEGMENT. (+5V ~ -32V) |
| 86 | SEG2 | OUT | H | |
| 87 | SEG1 | OUT | H | |
| 88 | GRID14 | OUT | H | VFD GRID SUPPLY. (+5V ~ -32V) |
| 89 | VDD | OUT | H | +5V POWER SUPPLY. HIGH OUT FOR BACKUP AT POWER OFF(POWER OFF PORT IS LOW). |
| 90 | GRID13 | OUT | H | VFD GRID OUTPUT. (+5V ~ -32V) |
| 91 | GRID12 | OUT | H | |
| 92 | GRID11 | OUT | H | |
| 93 | GRID10 | OUT | H | |
| 94 | GRID9 | OUT | H | |
| 95 | GRID8 | OUT | H | |
| 96 | GRID7 | OUT | H | |
| 97 | GRID6 | OUT | H | |
| 98 | GRID5 | OUT | H | |
| 99 | GRID4 | OUT | H | |
| 100 | GRID3 | OUT | H | |



TYPE : CM1684C

ANODE & GRID ASSIGNMENT



TYPE: CM1684C
ANODE & GRID ASSIGNMENT

| | G1 | G2 | G3 | G4 | G5 | G6 | G7 | G8 | G9 | G10 | G11 | G12 | G13 | G14 |
|-----|-----------|-----|-----|----|----|-------|----|------|--------|-----|------|--------|------|--------|
| S1 | THEATER | o | o | o | o | o | o | o | o | o | o | o | o | MPEG |
| S2 | HALL 2 | d | d | d | d | d | d | d | d | d | d | d | d | DTS |
| S3 | HALL 1 | e | e | e | e | e | e | e | e | e | e | e | e | k1 |
| S4 | 3-STEREO | m | m | m | m | m | m | m | m | m | m | m | m | d1 |
| S5 | PLO LOGIC | n | n | n | n | n | n | n | n | n | n | n | n | e1 |
| S6 | DIGITAL | i | i | i | i | i | i | i | i | i | i | i | i | c1 |
| S7 | DISPLAY | c | c | c | c | c | c | c | c | c | c | c | c | l1 |
| S8 | NIGHT | g | g | g | g | g | g | g | g | g | g | g | g | j1 |
| S9 | MULTI | RDS | PTY | C | RT | TUNED | □ | MONO | STEREO | □ | AUTO | MEMORY | VMAX | |
| S10 | PCM | k | k | k | k | k | k | k | k | k | k | k | k | g1 |
| S11 | SLEEP | p | p | p | p | p | p | p | p | p | p | p | p | PRESET |
| S12 | MUTE | q | q | q | q | q | q | q | q | q | q | q | q | a1 |
| S13 | BYPASS | a | a | a | a | a | a | a | a | a | a | a | a | h1 |
| S14 | DSP | b | b | b | b | b | b | b | b | b | b | b | b | i1 |
| S15 | ALALOG | i | i | i | i | i | i | i | i | i | i | i | i | m1 |
| S16 | OPT | f | f | f | f | f | f | f | f | f | f | f | f | f1 |
| S17 | COAX | j | j | j | j | j | j | j | j | j | j | j | j | b1 |
| S18 | AC-3 | h | h | h | h | h | h | h | h | h | h | h | h | n1 |

PIN ASSIGNMENT

| Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19~33 | 34 |
|------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----|
| Assignment | F1 | F1 | NP | NL | G1 | G2 | G3 | G4 | G5 | G6 | G7 | G8 | G9 | G10 | G11 | G12 | G13 | G14 | NP | F2 |
| Pin No. | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| Assignment | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 | NL | NP | F2 |

F1, F2 : Filament G1 ~ G14 : Grid S1 ~ S18 : Anode NL : No Lead NP : No Pin

A

B

1

1

1

1

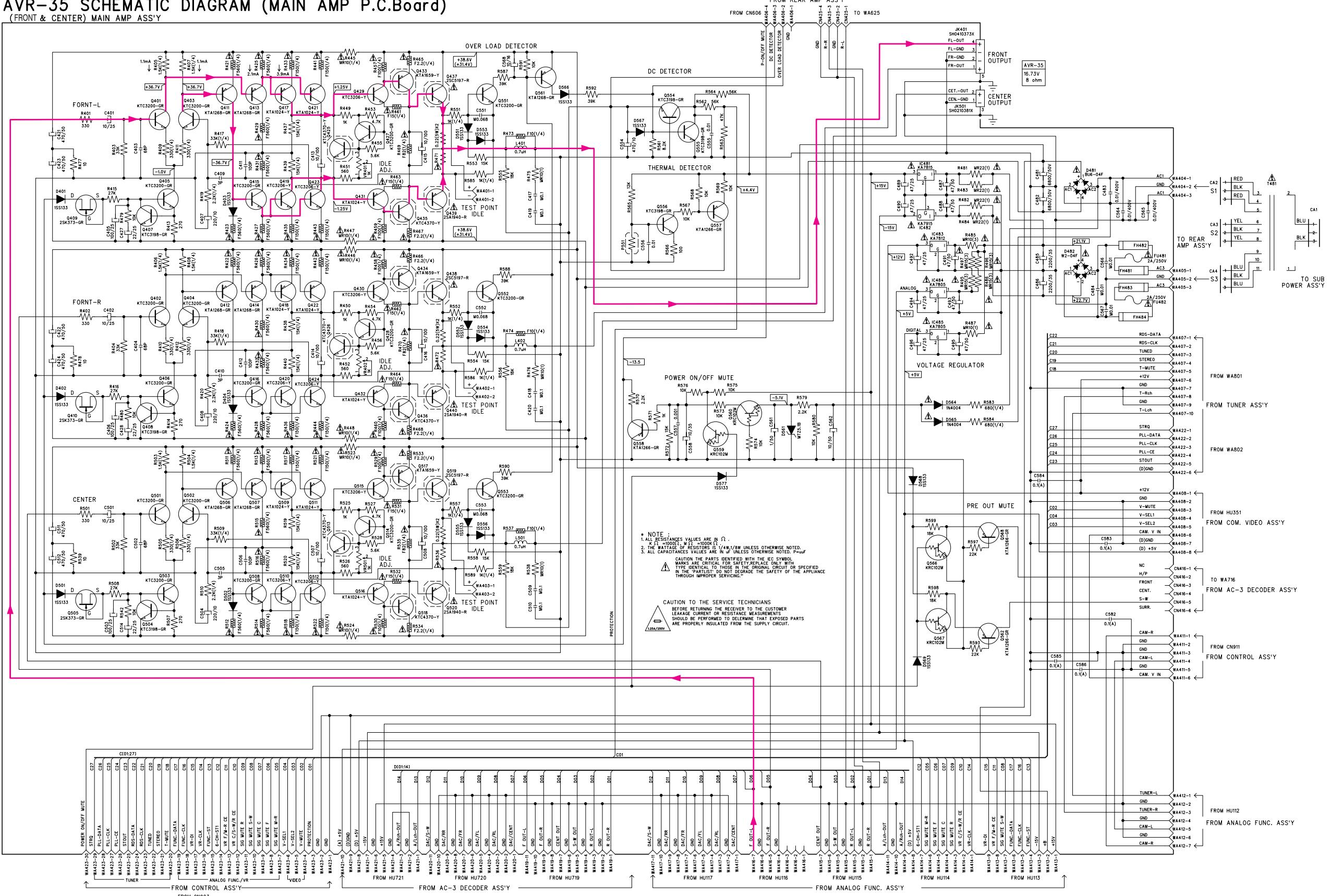
1

1

1

J

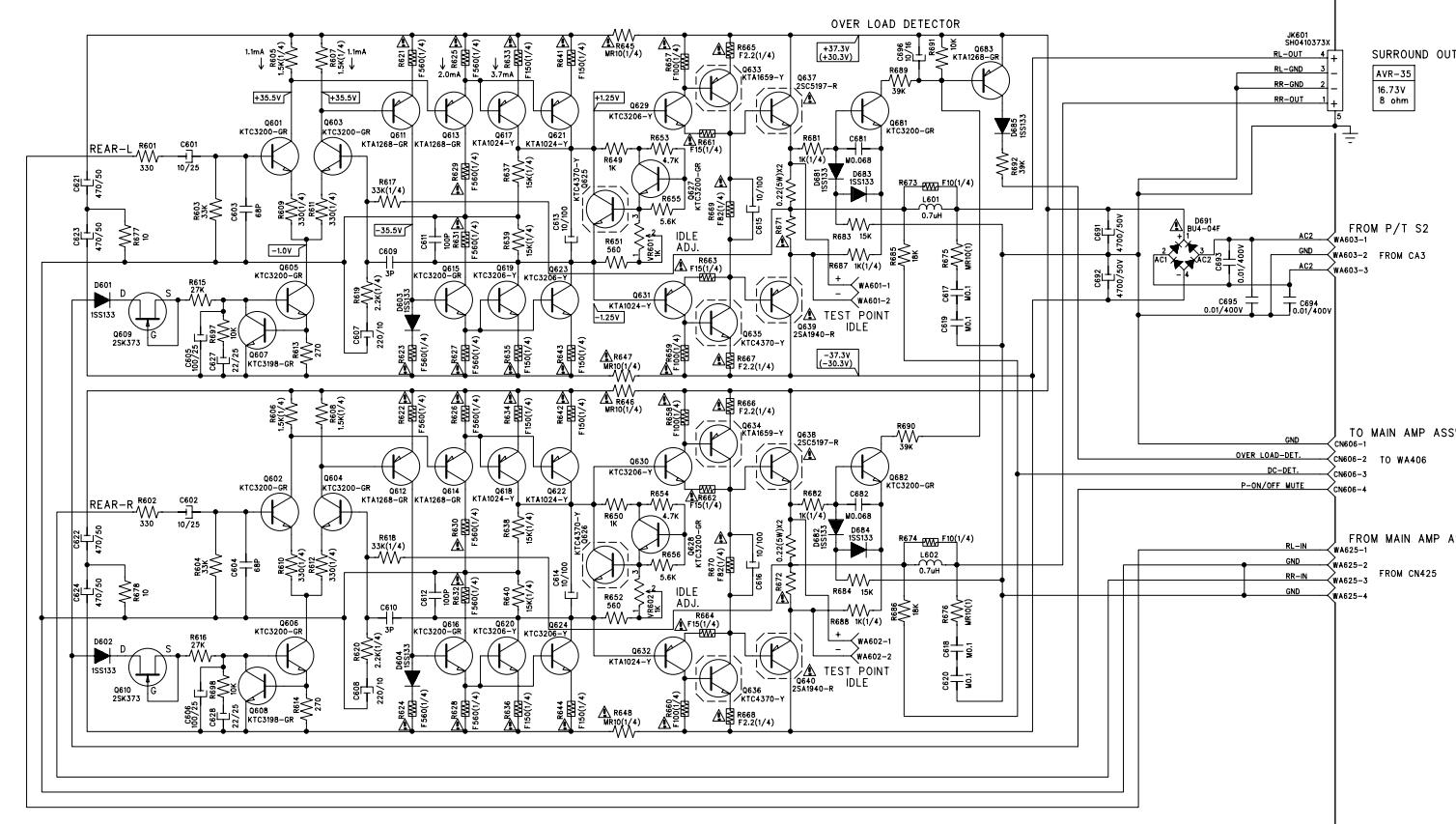
AVR-35 SCHEMATIC DIAGRAM (MAIN AMP P.C. BOARD)



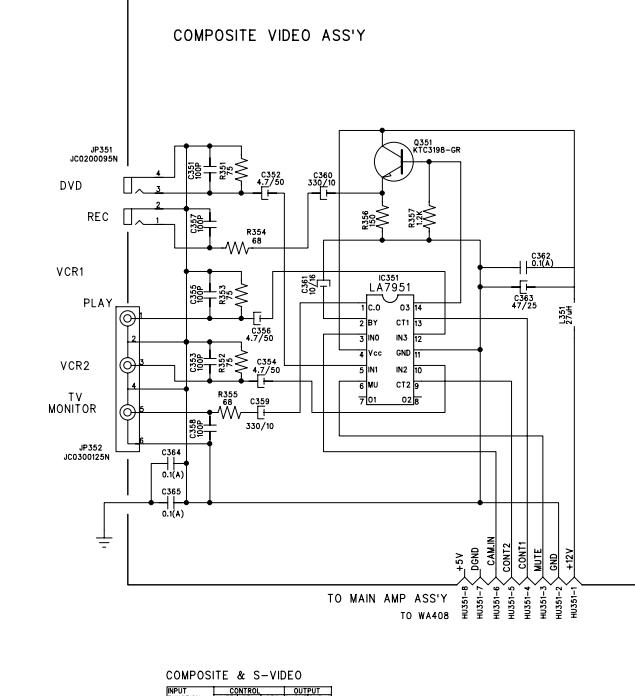
A B C D E F G H I

AVR-35 SCHEMATIC DIAGRAM (REAR AMP. C-VIDEO. SUB P.C.Board)

REAR AMP ASS'Y



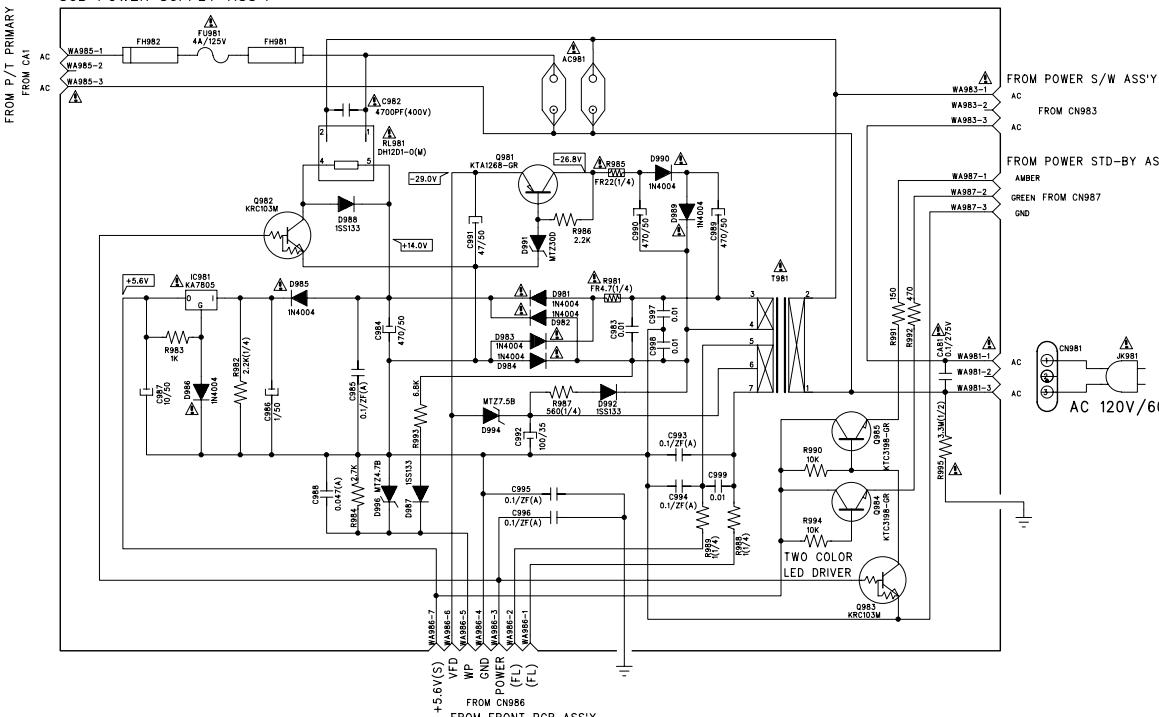
COMPOSITE VIDEO ASS'Y



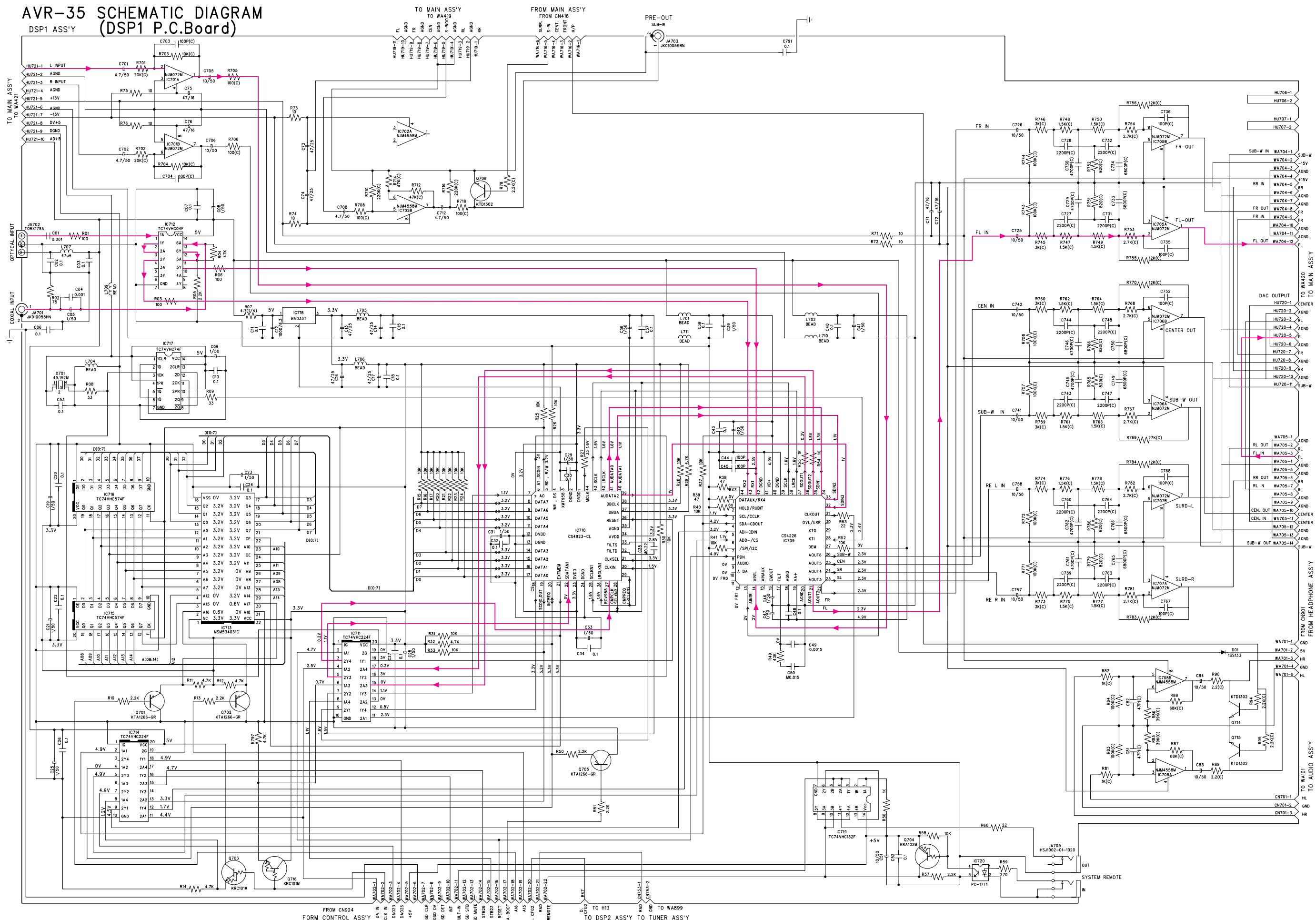
COMPOSITE & S-VIDEO

| INPUT FUNCTION | CONTROL | | | OUTPUT | |
|-------------------|---------|-----|-----|-------------|-----|
| | MUTE | CT1 | CT2 | C-OUT/OUT-3 | |
| OTHER | L | * | * | OFF | OFF |
| CAMCODER | H | L | L | CAMCODER | |
| DVD | H | L | H | DVD | |
| VCR2 | H | H | L | VCR2 | |
| VCR1 | H | H | H | VCR1 | OFF |

SUB POWER SUPPLY ASS'Y



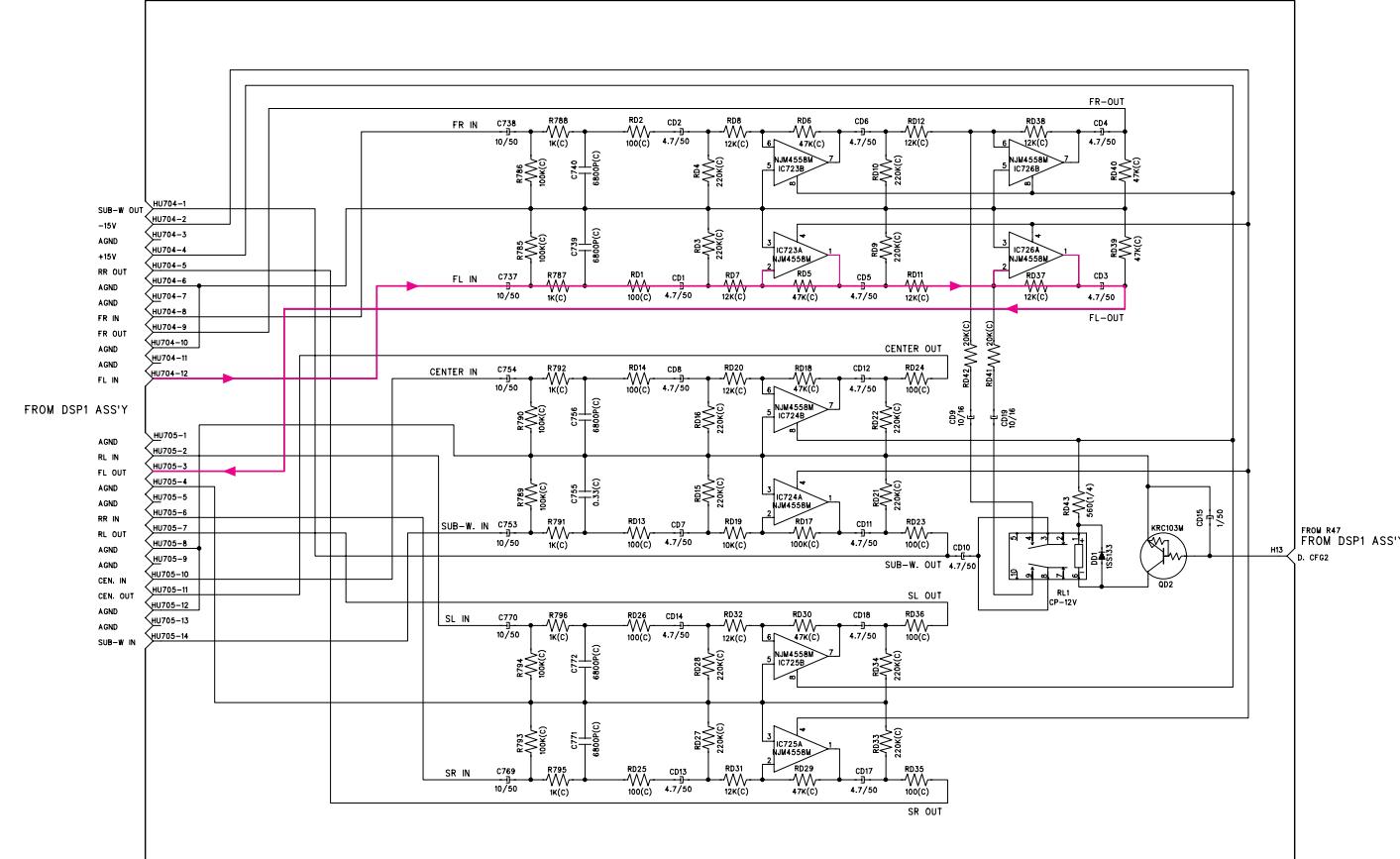
**AVR-35 SCHEMATIC DIAGRAM
(DSP1 P.C. Board)**



A | B | C | D | E | F | G | H | I |

AVR-35 SCHEMATIC DIAGRAM (DSP2 P.C.Board)

DSP2 ASS



A B C D E F G H I J

1

2

3

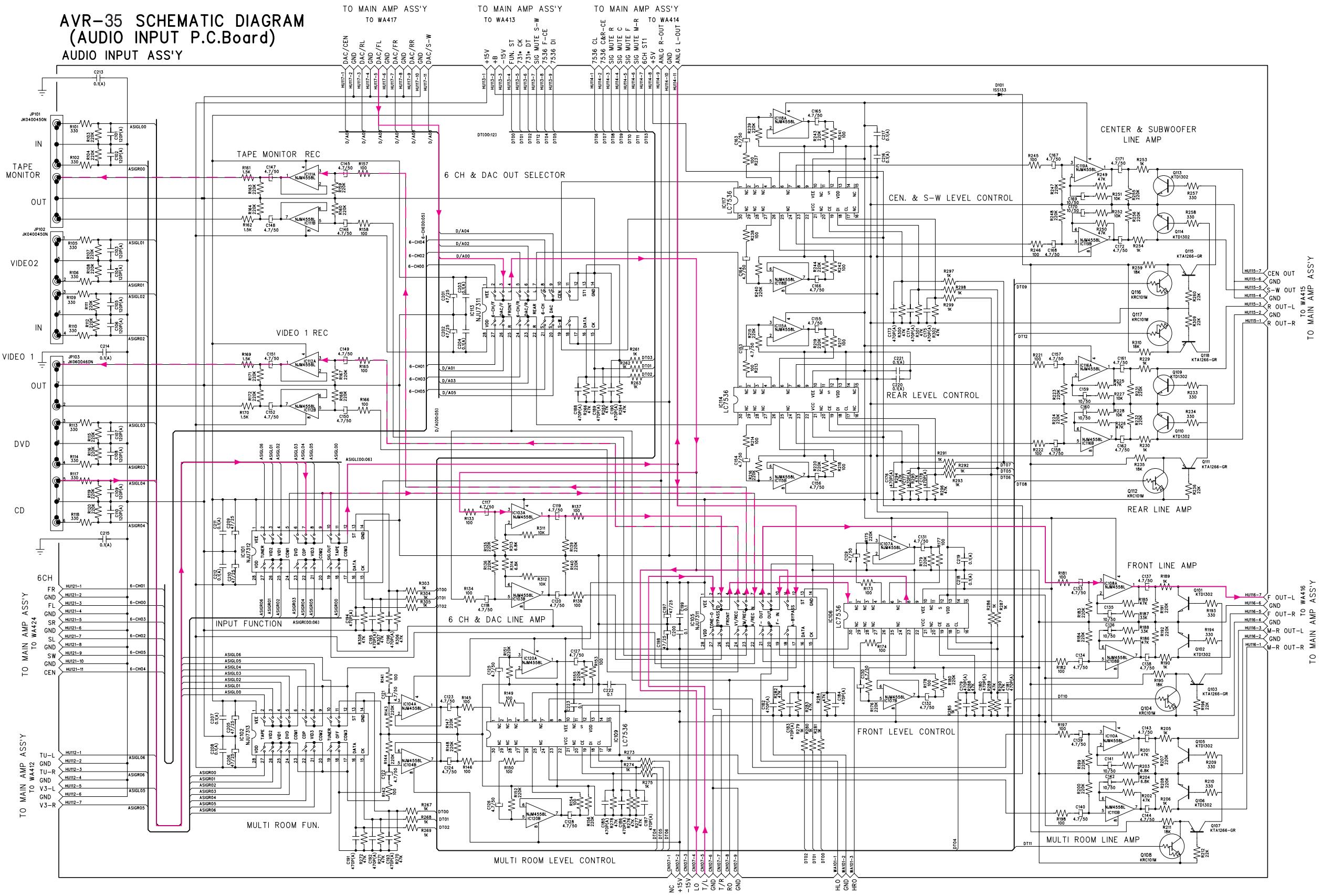
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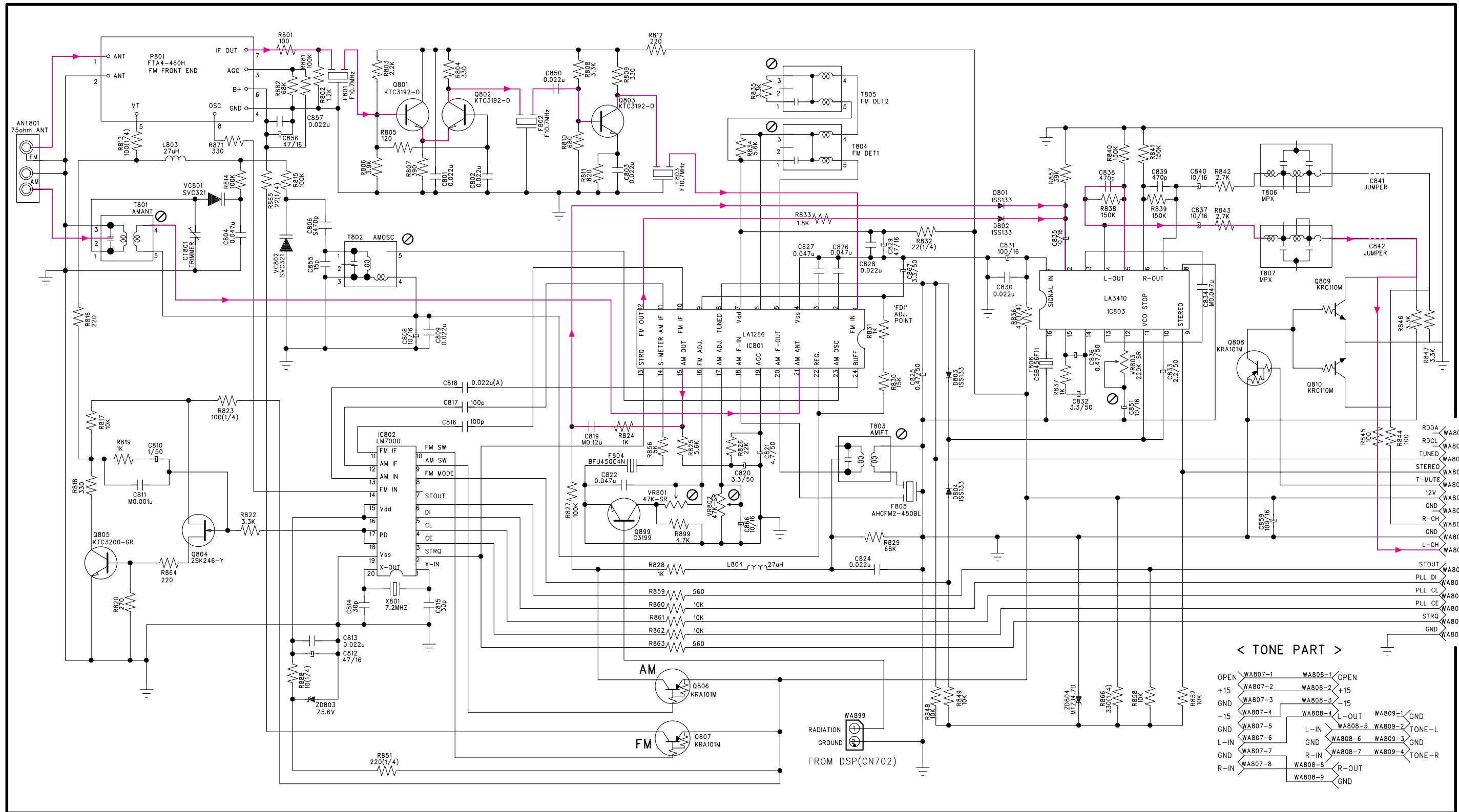
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7

**AVR-35 SCHEMATIC DIAGRAM
(AUDIO INPUT P.C. Board)**
AUDIO INPUT ASS'Y



AVR-35 TUNER SCHEMATIC DIAGRAM (TUNER P.C.Board)



1

2

2

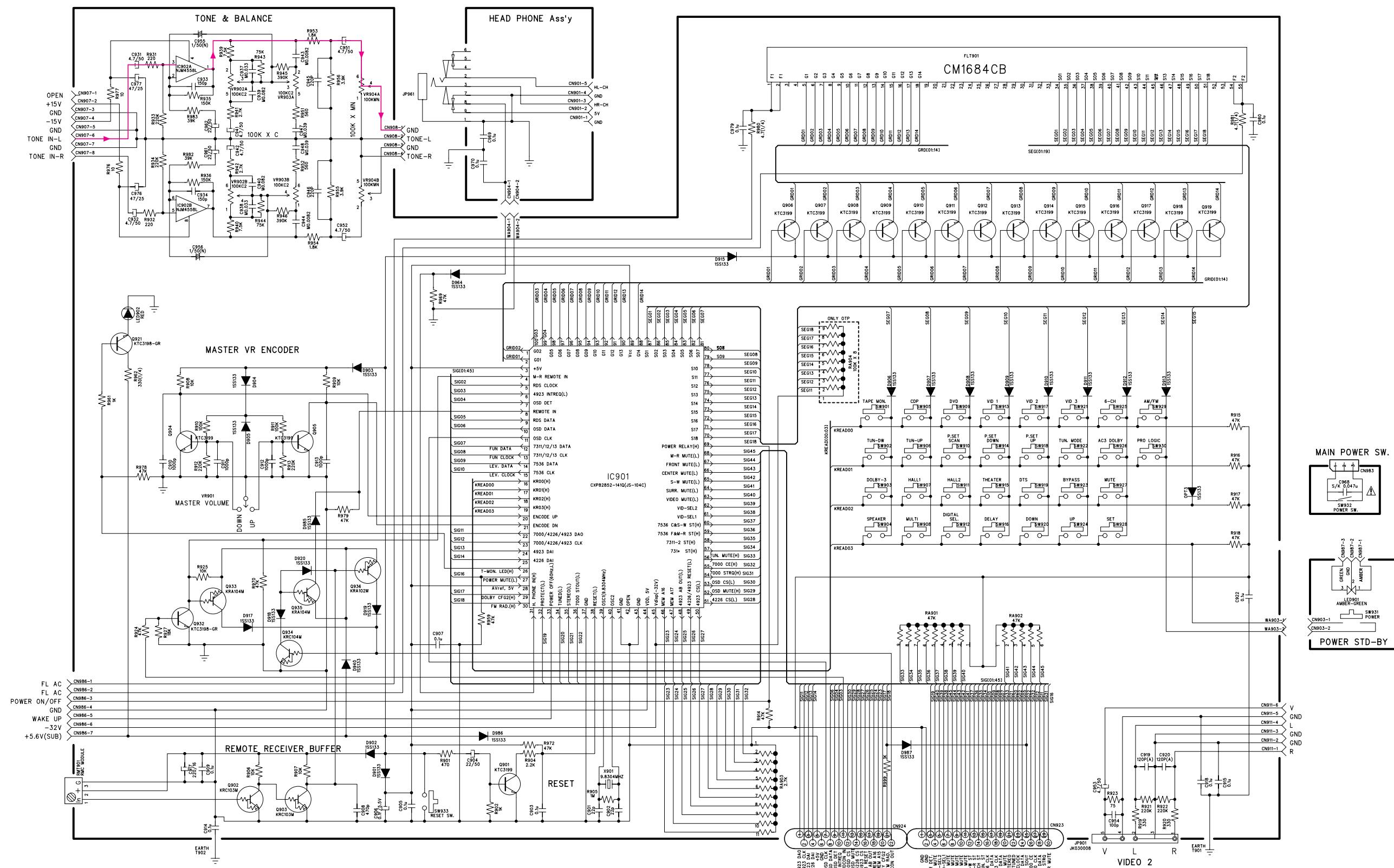
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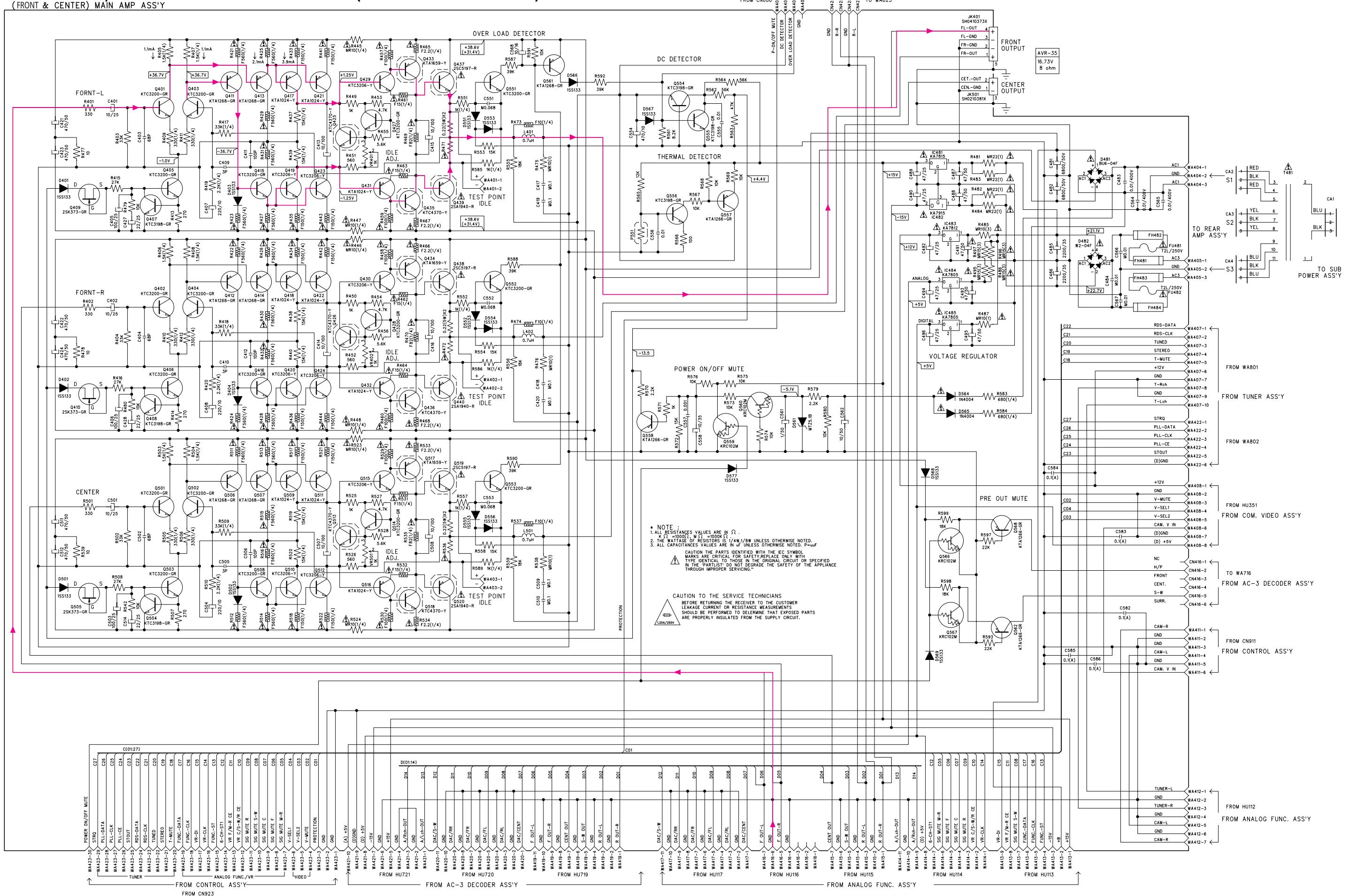
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AVR-35 u-COM & F.L.DISPLAY SCHEMATIC DIAGRAM (FRONT P.C.Board)



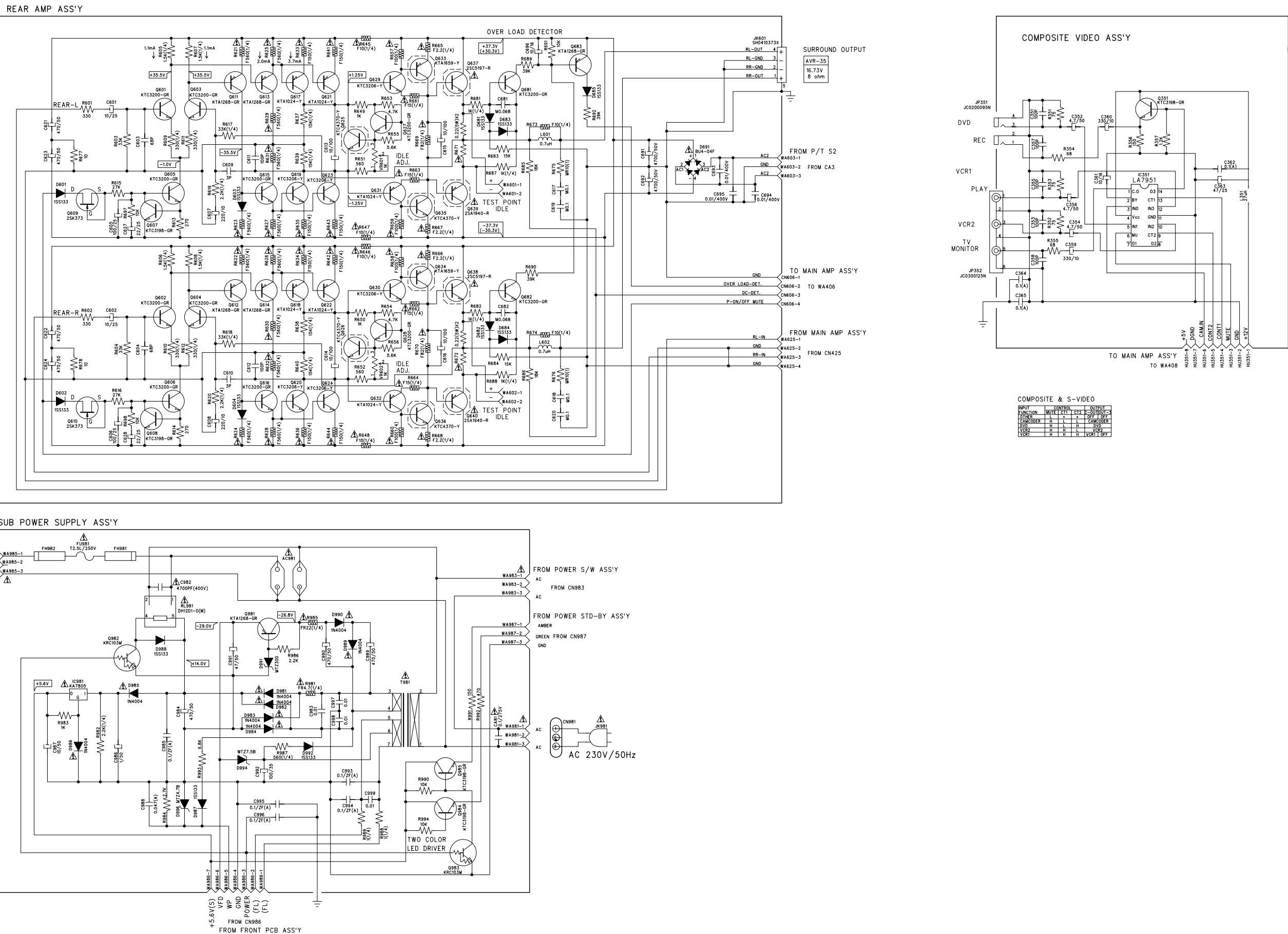
AVR-35RDS/35SG SCHEMATIC DIAGRAM (MAIN AMP P.C.Board)

(FRONT & CENTER) MAIN AMP

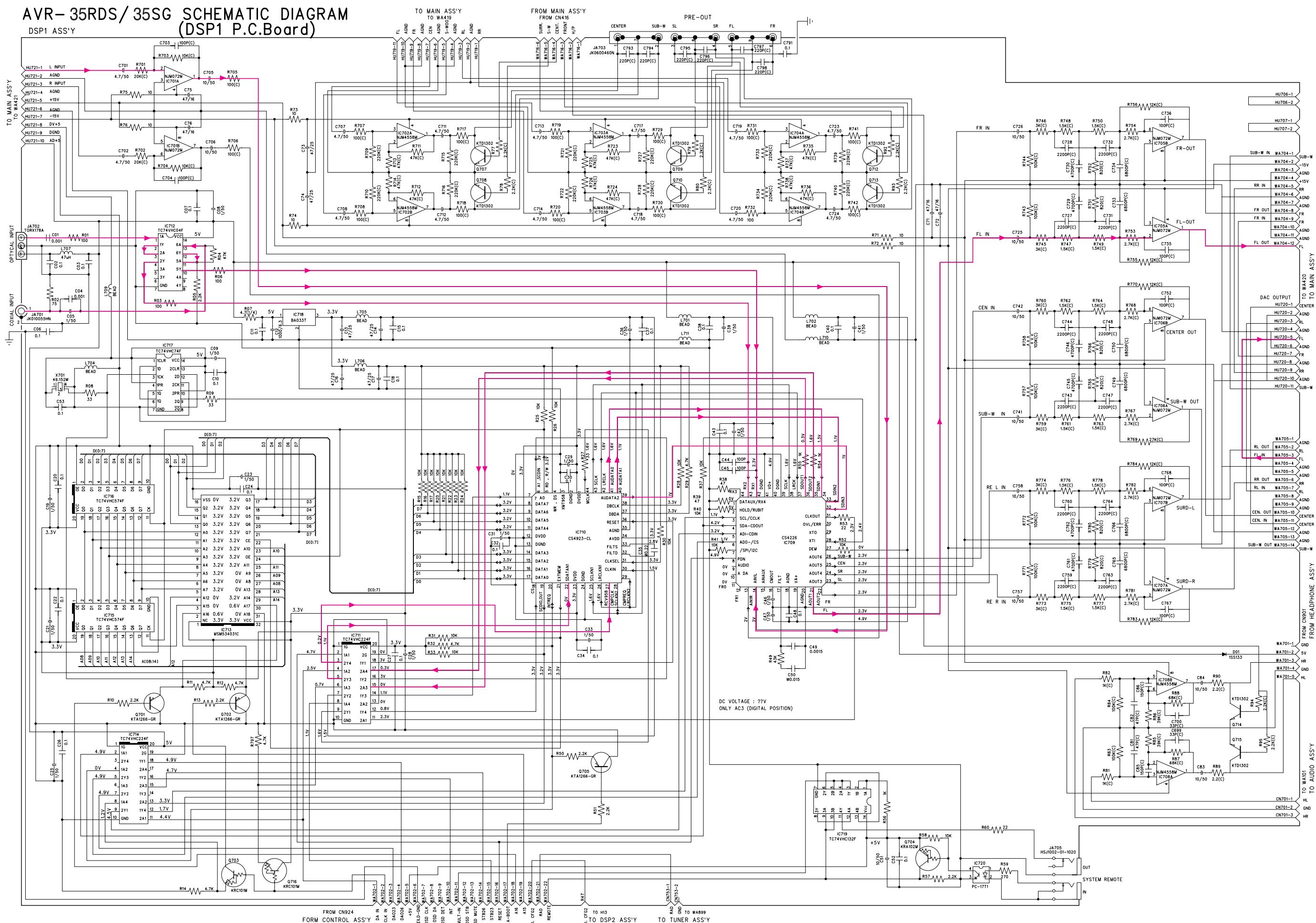


A B C D E F G H I J

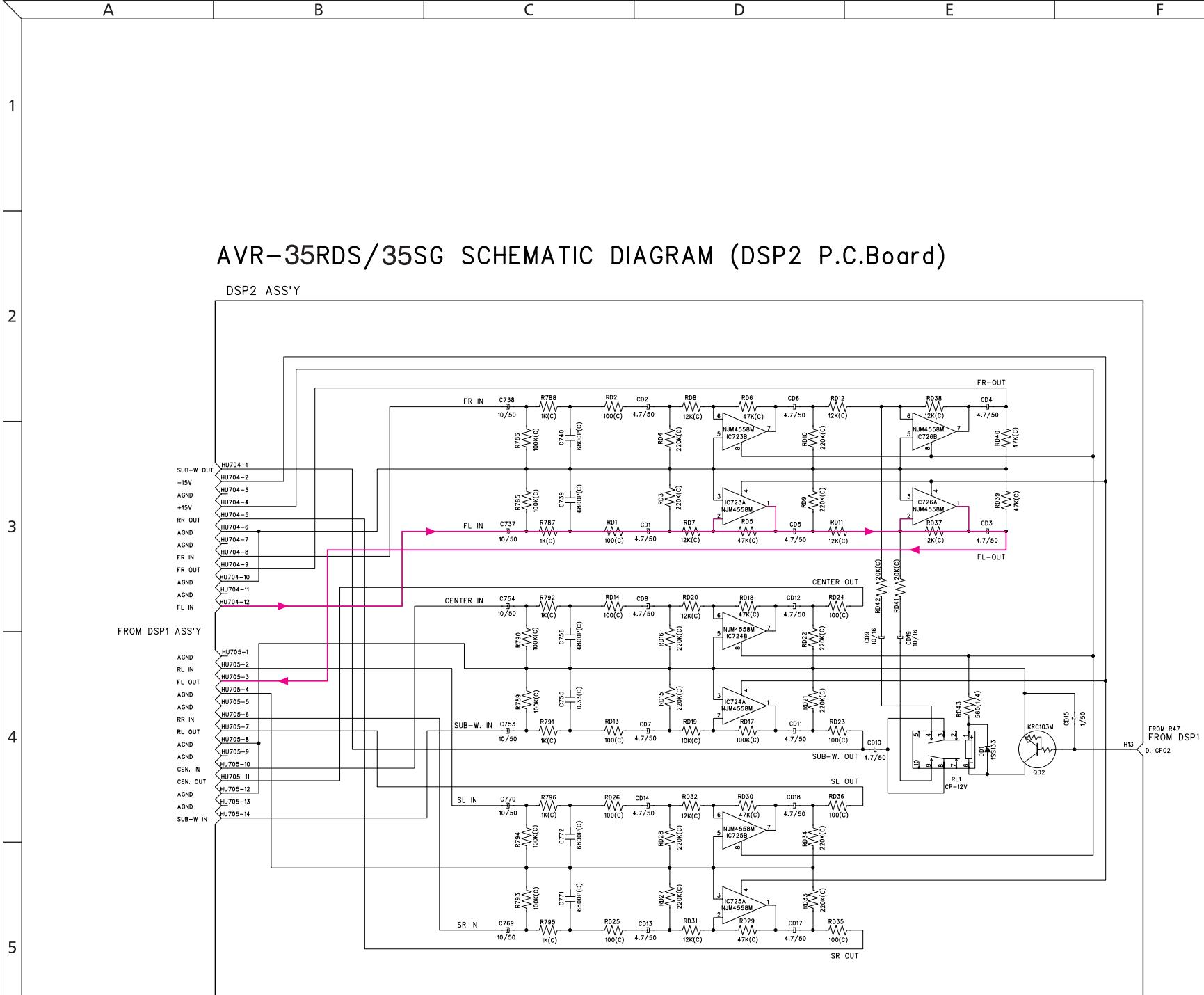
AVR-35RDS/35SG SCHEMATIC DIAGRAM (REAR AMP. C-VIDEO. SUB P.C.Board)



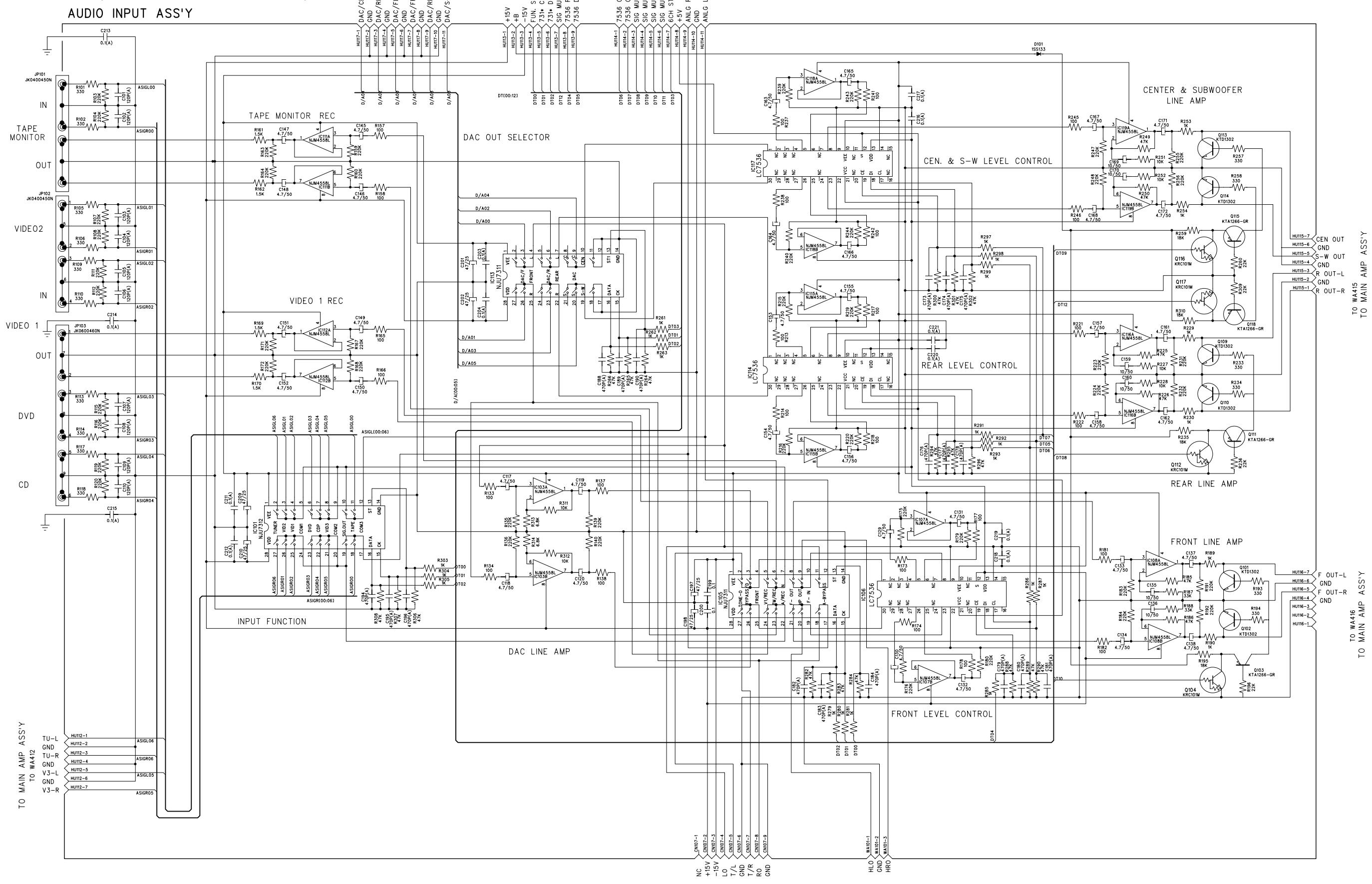
AVR-35RDS / 35SG SCHEMATIC DIAGRAM (DSP1 P.C. Board)



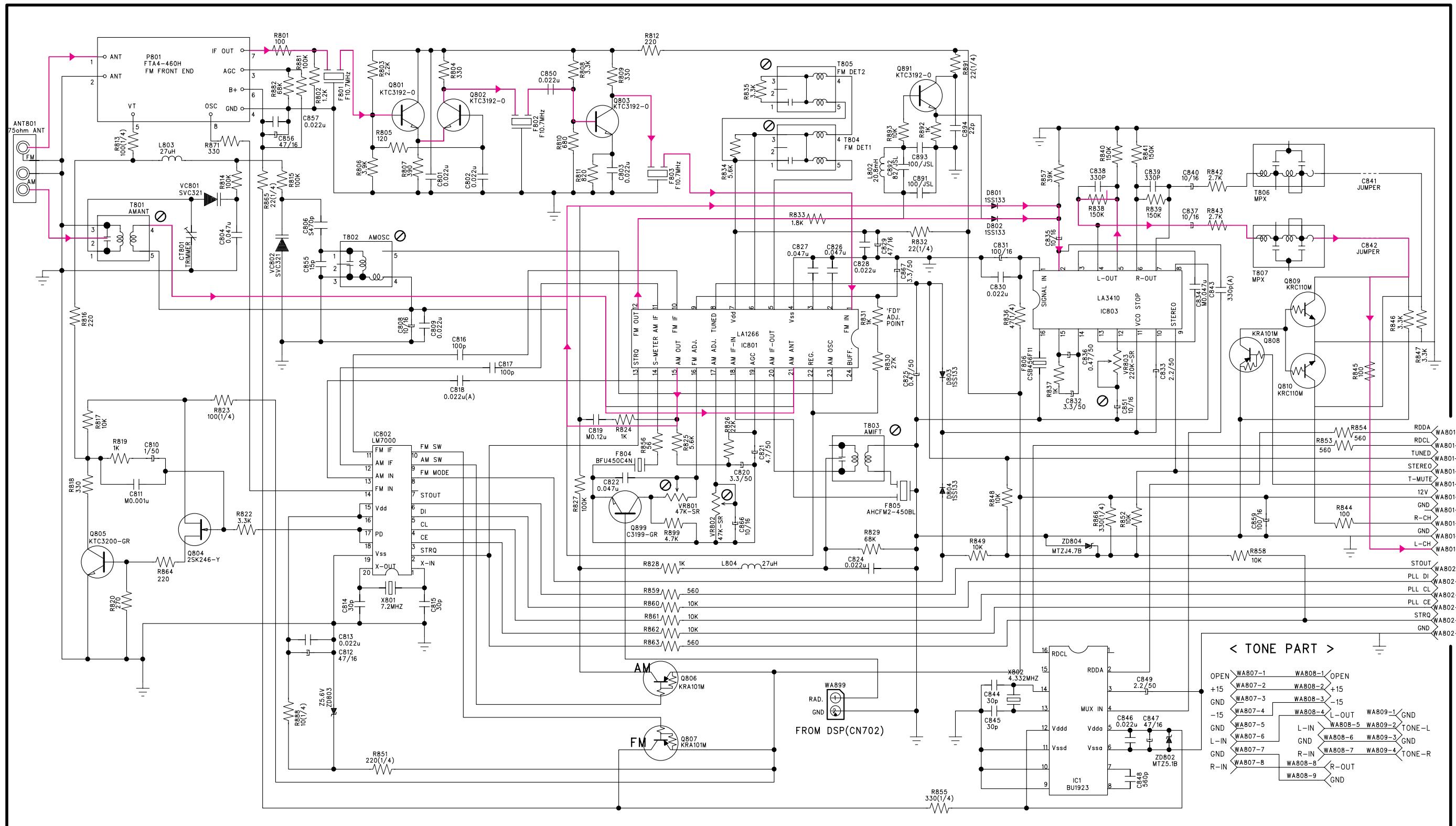
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|



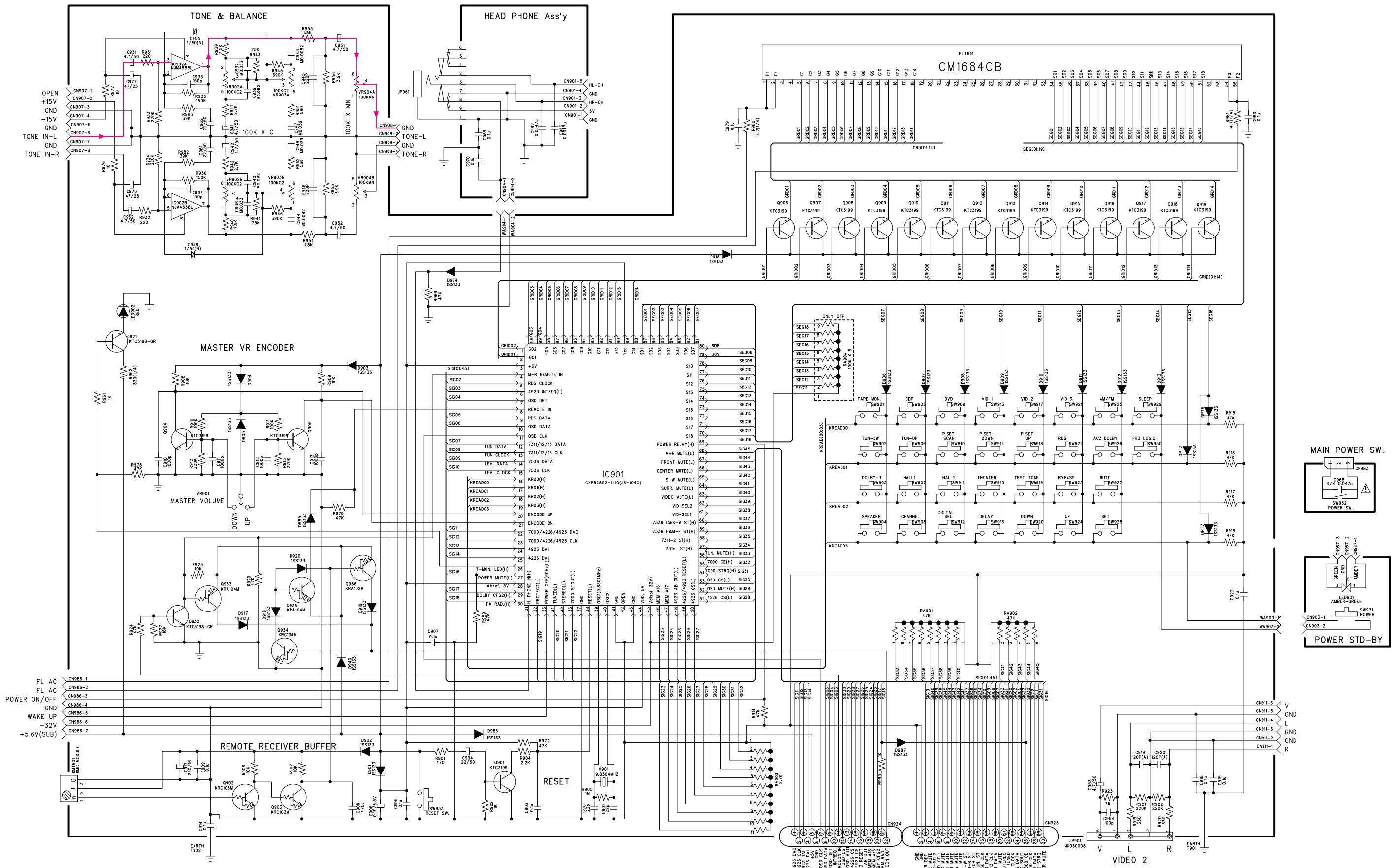
**AVR-35RDS/35SG SCHEMATIC DIAGRAM
(AUDIO INPUT P.C. Board)**



AVR-35RDS TUNER SCHEMATIC DIAGRAM (TUNER P.C.Board)



AVR-35RDS u-COM & F.L.DISPLAY SCHEMATIC DIAGRAM (FRONT P.C.Board)



A B C D E F G H I J

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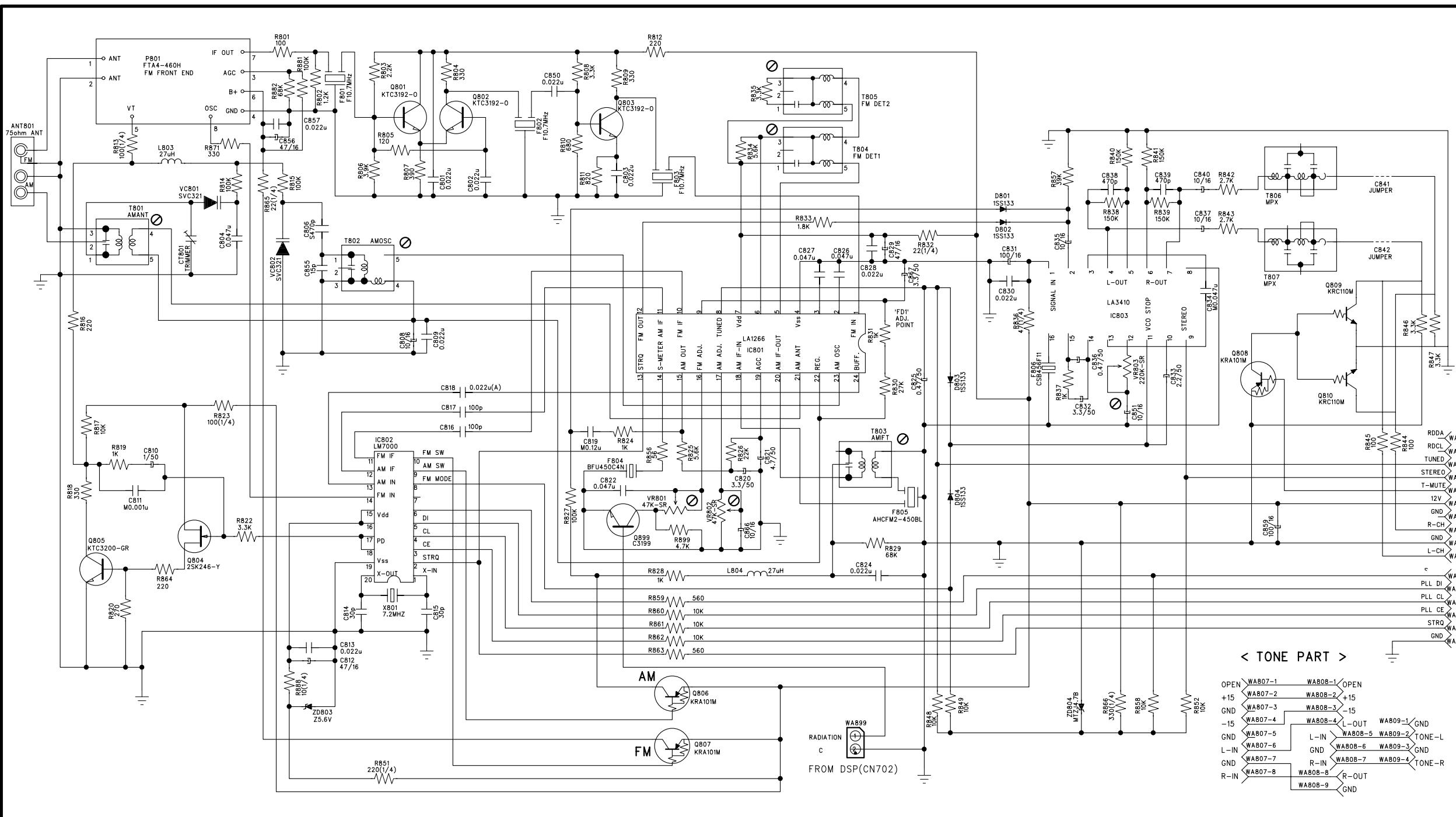
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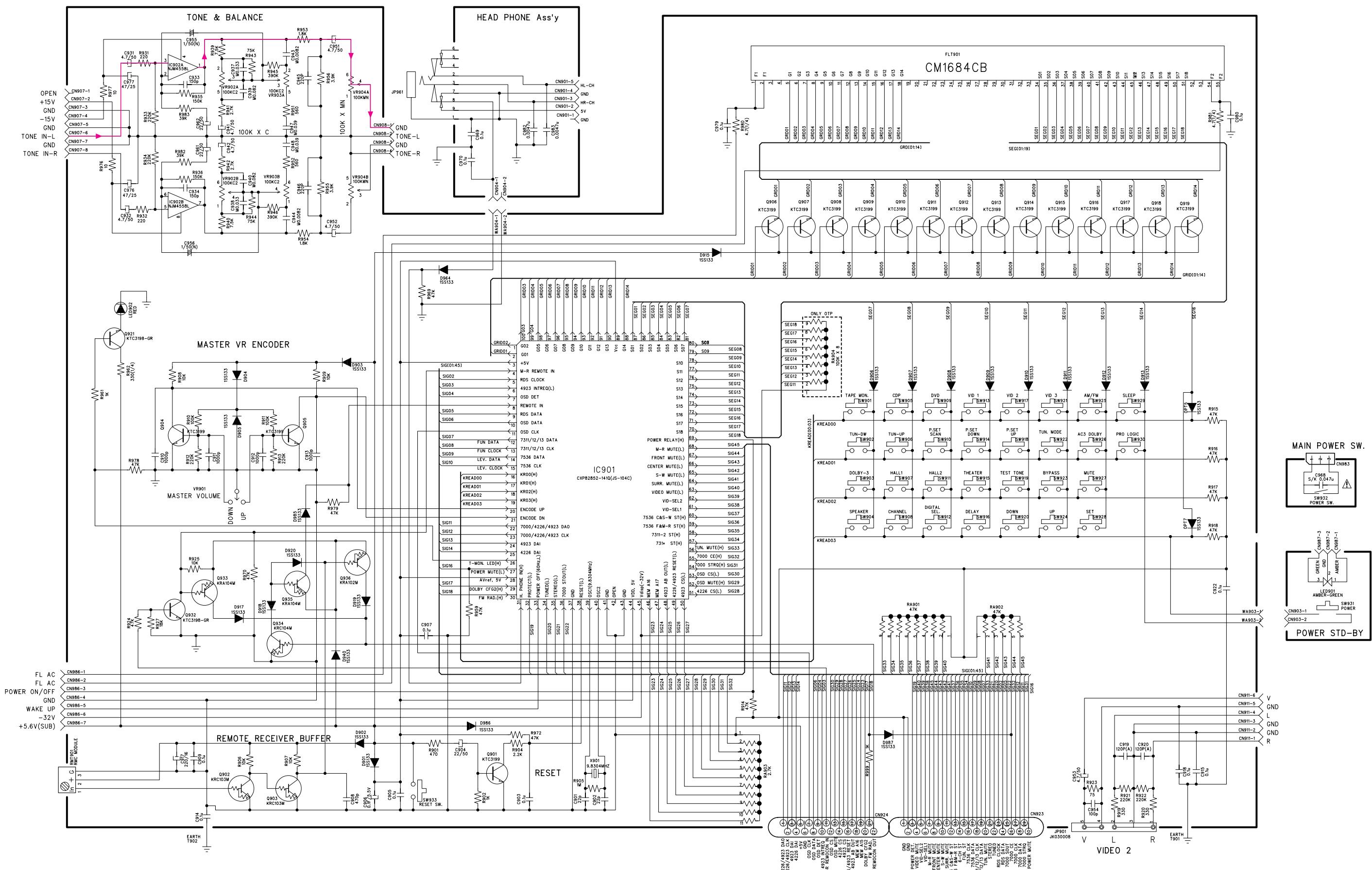
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AVR-35SG TUNER SCHEMATIC DIAGRAM (TUNER P.C. BOARD)

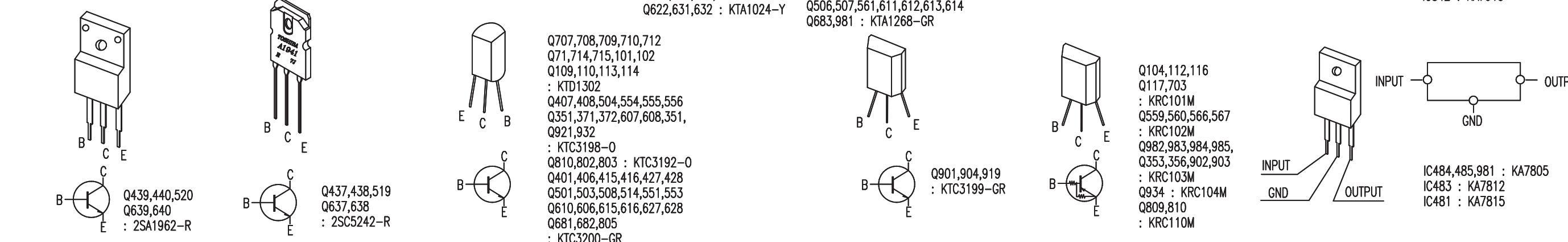
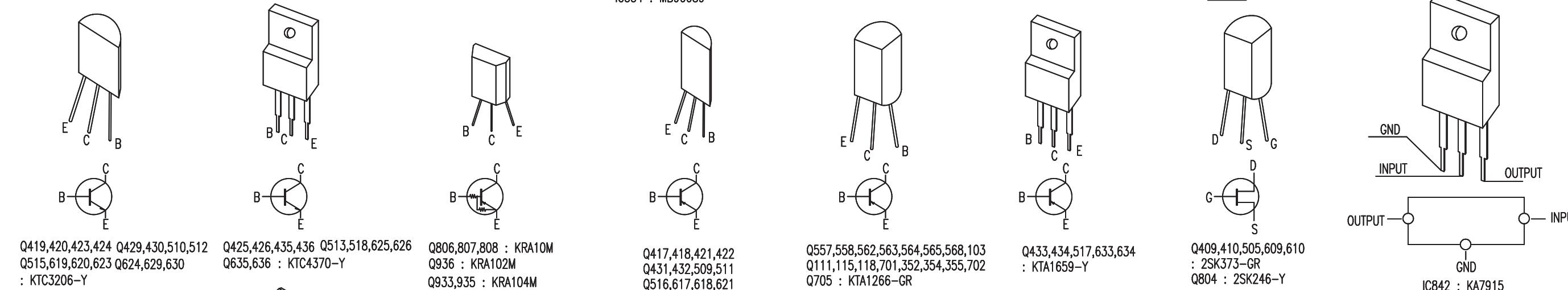
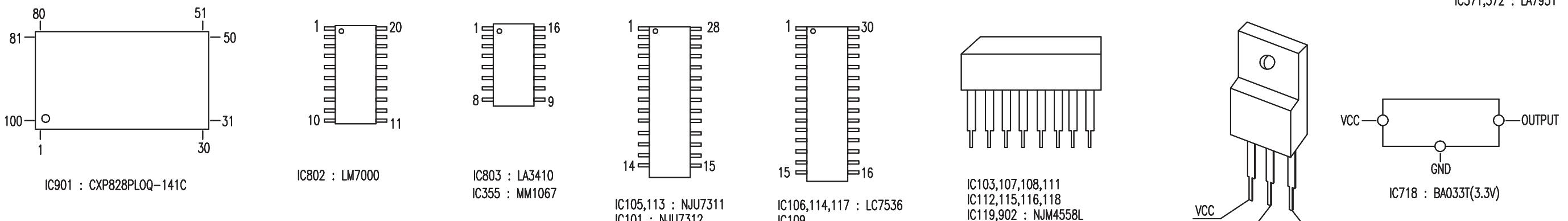
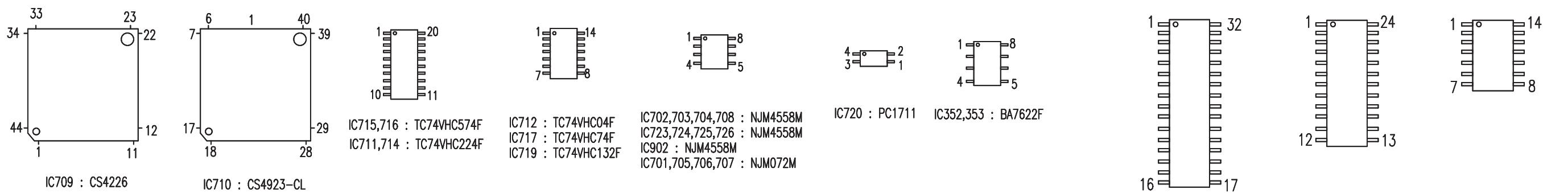


AVR-35SG u-COM & F.L.DISPLAY SCHEMATIC DIAGRAM (FRONT P.C.Board)



A B C D E F G H I J

PIN CONNECTION DIAGRAM



1

B | C | D | E | F | G | H | I | J

AVR-35/35RDS/35SG WIRING DIAGRAM

2

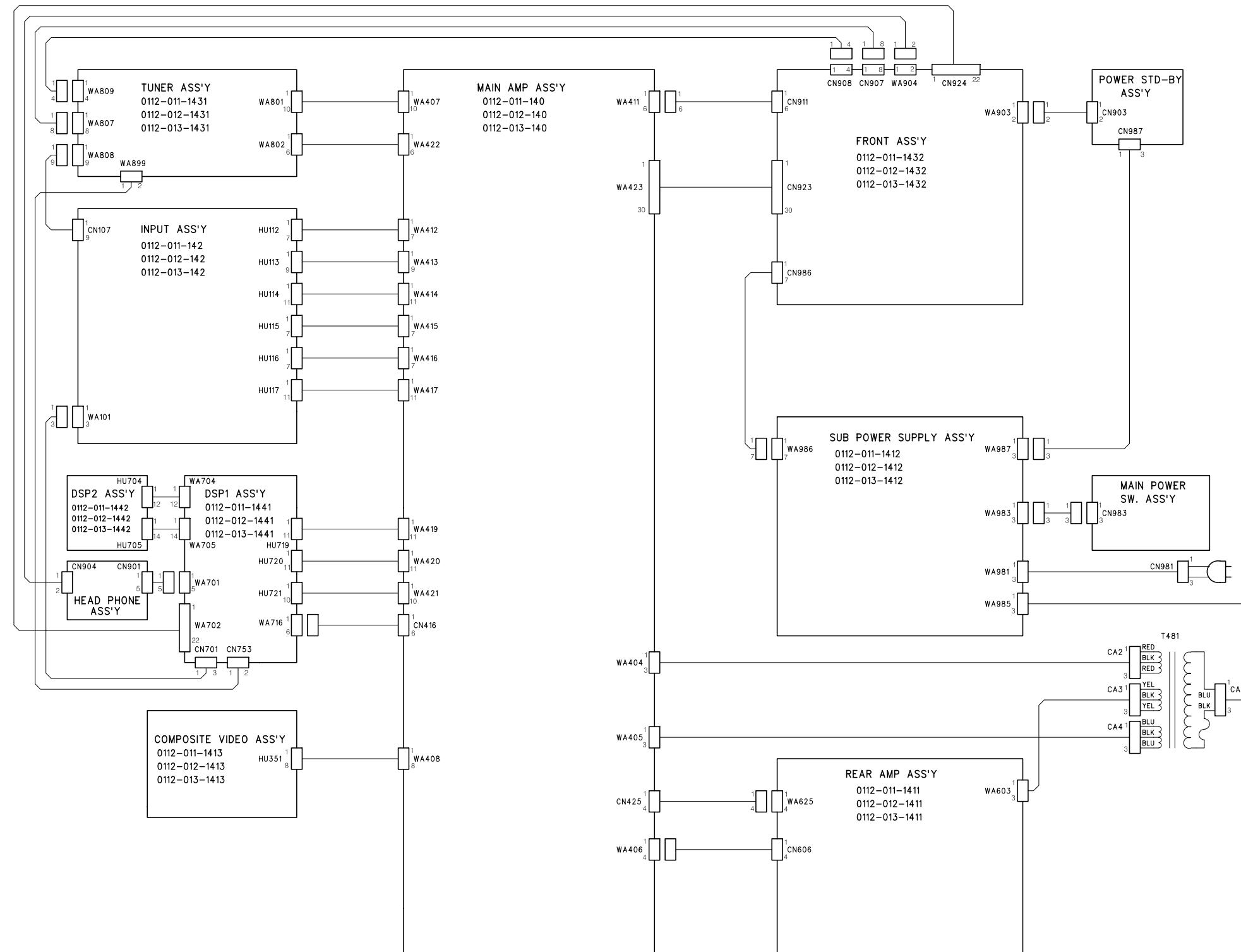
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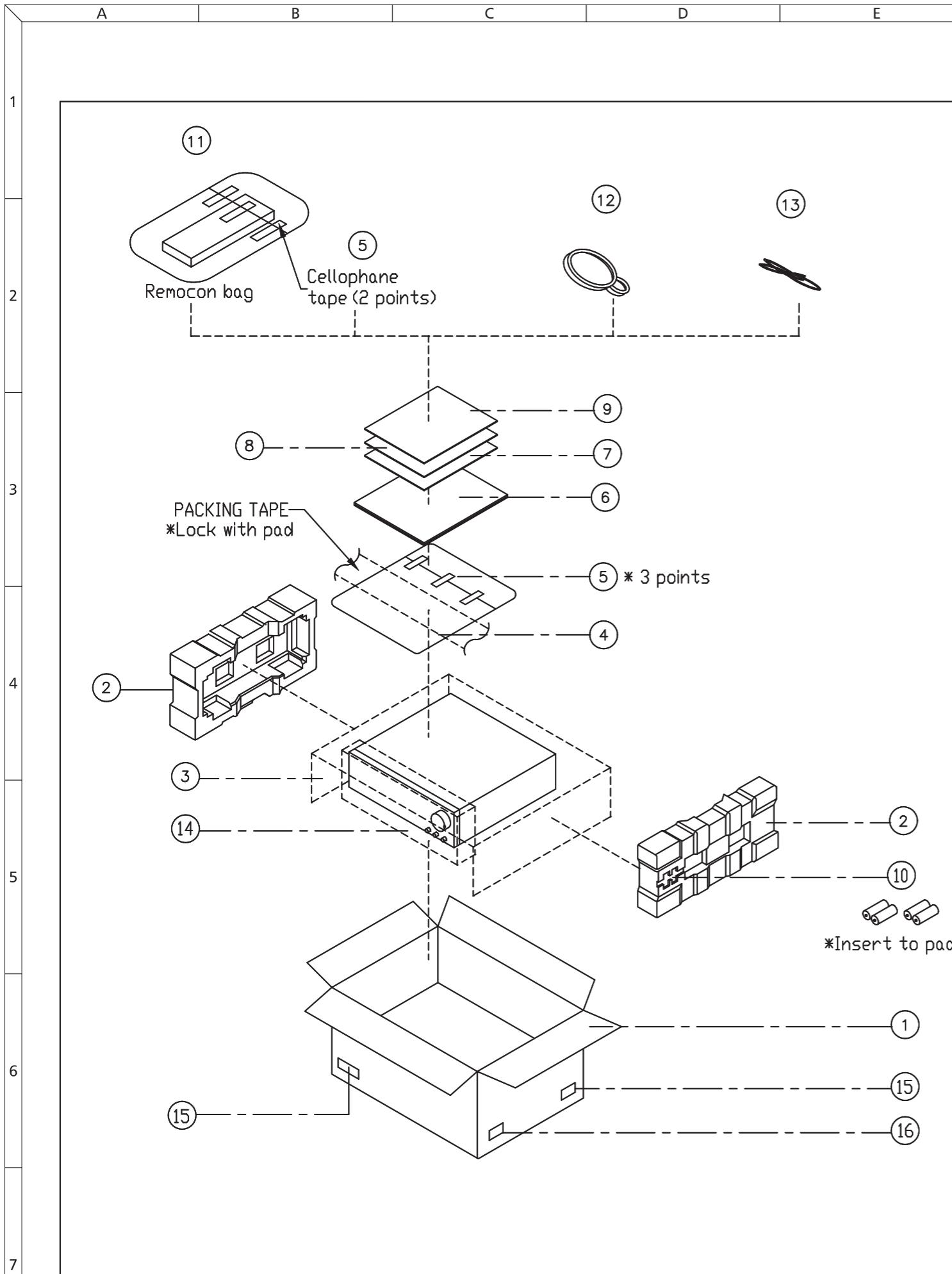
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7





*PACKING PARTS LIST

| NO. | PARTS NAME | PARTS NO. | MATERIAL | Q'TY | MODEL NO. |
|-----|--------------------|---------------|--------------|------|-----------|
| 1 | MASTER CARTON | 6121-004-010 | DW-1, BROWN | 1 | AVR 35USA |
| | | 6121-007-001 | DW-1, BROWN | 1 | AVR 35RDS |
| | | 6121-010-001 | DW-1, BROWN | 1 | AVR 35SG |
| 2 | PAD. SIDE | 6151-003-010 | PS-FM50, EPS | 2 | |
| 3 | SHEET. POLY | 6132-003-010 | PE-FOAM | 1 | |
| 4 | BAG. POLY | 6131-003-010 | PE T 0.05 | 1 | |
| 5 | TAPE. CELLOPHANE | 9931-001-020 | | 10cm | |
| 6 | INSTRUCTION MANUAL | 6311-004-010 | PAPER | 1 | AVR 35USA |
| | | 6311-007-010 | PAPER | 1 | AVR 35RDS |
| | | 6311-010-010 | PAPER | 1 | AVR 35SG |
| 7 | CARD. WARRANTY | 6331-003-010 | PAPER | 1 | AVR 35USA |
| | | 6331-003-010 | PAPER | 0 | AVR 35RDS |
| | | 6331-003-010 | PAPER | 0 | AVR 35SG |
| 8 | CARD. POST | 6331-003-030 | PAPER | 1 | AVR 35USA |
| | | 6331-003-030 | PAPER | 0 | AVR 35RDS |
| | | 6331-003-030 | PAPER | 0 | AVR 35SG |
| 9 | CARD. SAFETY GUARD | 6331-003-020 | PAPER | 1 | AVR 35USA |
| | | 6331-003-020 | PAPER | 0 | AVR 35RDS |
| | | 6331-003-020 | PAPER | 0 | AVR 35SG |
| 10 | BATTERY. ASS'Y | 6453-001-002 | AAA | 2 | |
| 11 | REMOCON ASS'Y | A0191-045-000 | | 1 | AVR 35USA |
| | | A0191-045-001 | | 1 | AVR 35RDS |
| | | A0191-085-001 | | 1 | AVR 35SG |
| 12 | AM LOOP ANTENNA | 6457-000-012 | | 1 | |
| 13 | ANT. FM | 6457-000-011 | | 1 | |
| 14 | COVER. POLY | 6132-003-020 | PE-FOAM | 1 | |
| 15 | LABEL. BARCODE | 6234-004-030 | PAPER | 4 | AVR 35USA |
| | | 6234-007-020 | PAPER | 4 | AVR 35RDS |
| | | 6234-010-020 | PAPER | 4 | AVR 35SG |
| 16 | LABEL. ORIGIN | 6234-003-100 | PAPER | 1 | |