Model DCR600

A/V DOLBY DIGITAL RECEIVER

Cinema Propack™ 600 System

Service Manual

- CONTENTS -

JBL Consumer Products
250 Crossways Park Dr.
Woodbury, New York 11797

Rev1 7/2005

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 or 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

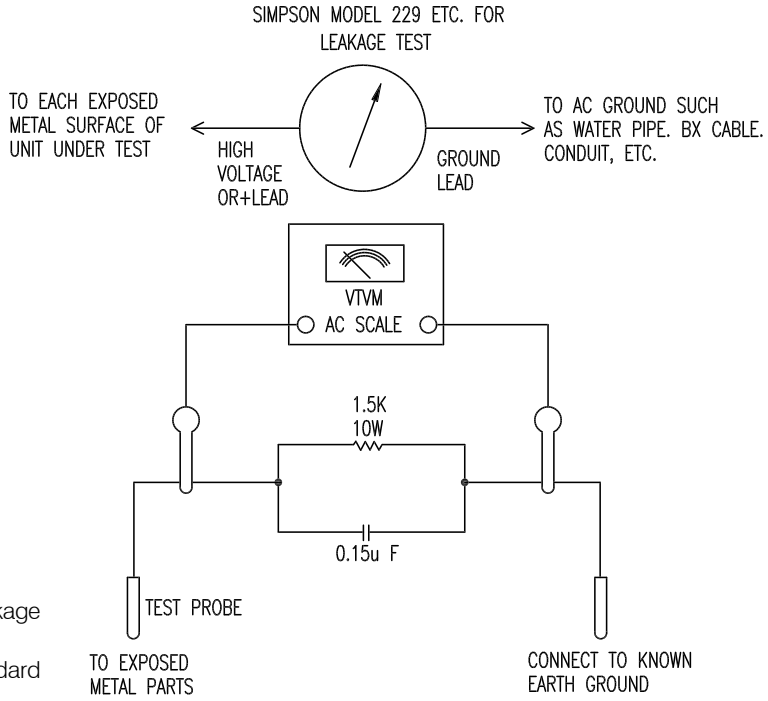
Each precaution in this manual should be followed during servicing.

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 retuming 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.



TECHNICAL SPECIFICATIONS
DCR600

Audio Section

Two-Channel Stereo Mode

75W per channel continuous RMS power into 8 ohms at 0.08% THD, 100Hz to 20kHz (frequencies below 100Hz are handled by SCS135S powered subwoofer)

Five-Channel Cinema Mode

100W per channel dynamic RMS power into 8 ohms at 0.08% THD, 100Hz to 20kHz (frequencies below 100Hz are handled by SCS135S powered subwoofer)

Input Sensitivity/Impedance
200mV/47k ohms

Signal-to-Noise Ratio	95dBA

Surround System Adjacent Channel Separation

Analog Decoding	40dB
Dolby Digital	55dB
DTS	55dB

Frequency Response
10Hz–100kHz (+0, –3dB)

FM Tuner Section

Frequency Range	87.5–108MHz
Usable Sensitivity	1.3µV/13.2dBf
Signal-to-Noise Ratio	70dB (mono) 68dB (stereo)
Distortion	0.2% (mono) 0.3% (stereo)
Stereo Separation	40dB @ 1kHz
Selectivity	±400kHz, 70dB
Image Rejection	80dB
IF Rejection	90dB
Tuner Output Level	500mV at 1kHz, ±75kHz Deviation

AM Tuner Section

Frequency Range	520–1710kHz
Signal-to-Noise Ratio	45dB
Usable Sensitivity	500µV (loop)
Distortion	0.8% (1kHz, 50% Modulation)
Selectivity	30dB at ±10kHz

Video Section

Format	NTSC
Input Level/Impedance	1Vp-p/75 ohms
Output Level/Impedance	1Vp-p/75 ohms
Video Frequency Response	10Hz to 8MHz (–3dB)

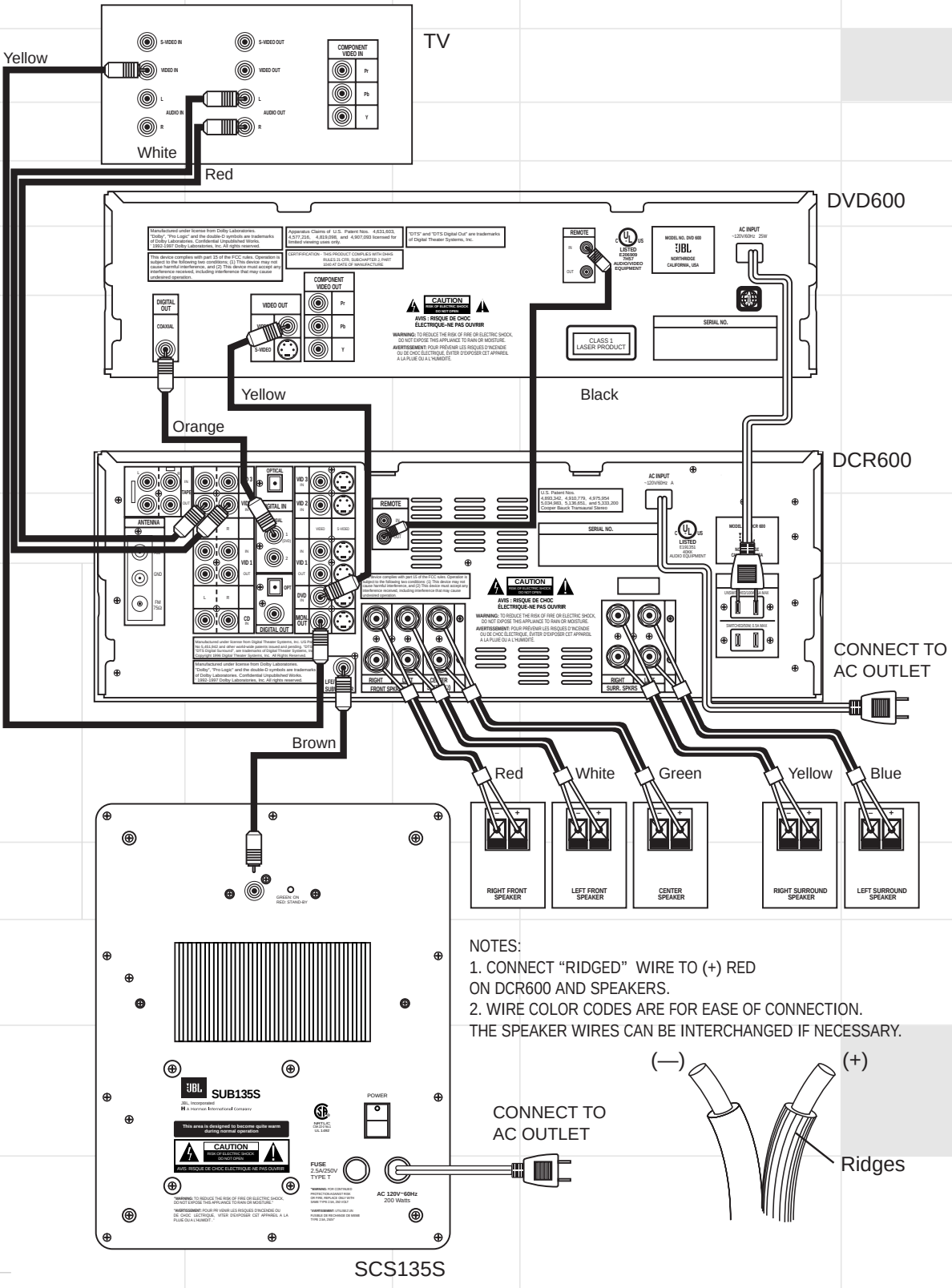
General

Unit Power Consumption	72W idle, 580W maximum
Unit Dimensions	
Width	17.3 inches (440mm)
Height	6.5 inches (165mm)
Depth	17.1 inches (435mm)
Unit Weight	31 lb (14.1kg)

Depth measurement includes knobs, buttons and terminal connections.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

Quick Installation Diagrams

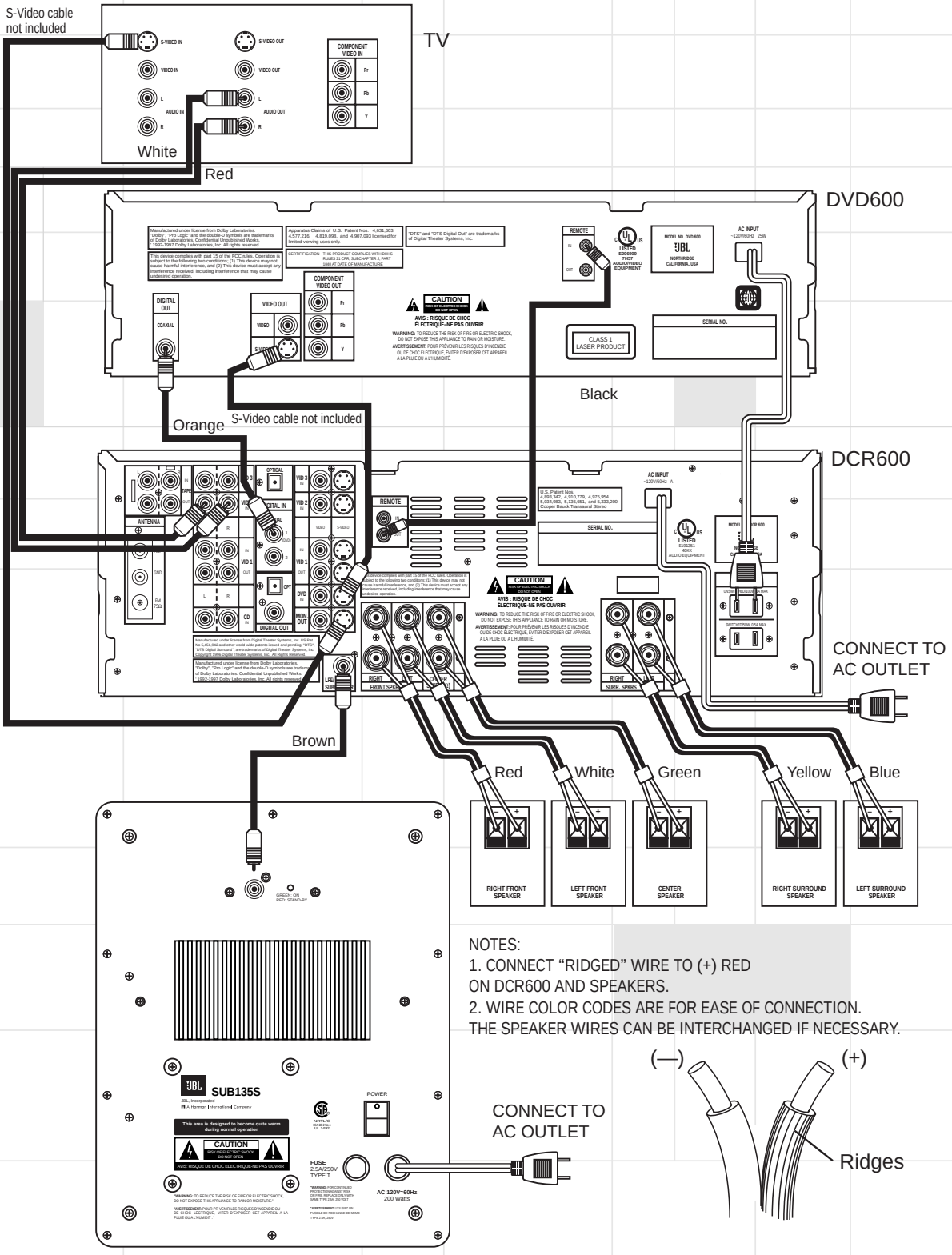
BASIC INSTALLATION: Your TV must at a minimum have a composite video input (this connector usually has a yellow-colored core), and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. All wires for this hookup are included.



NOTES:
1. CONNECT “RIDGED” WIRE TO (+) RED ON DCR600 AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION. THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.

Quick Installation Diagrams (Continued)

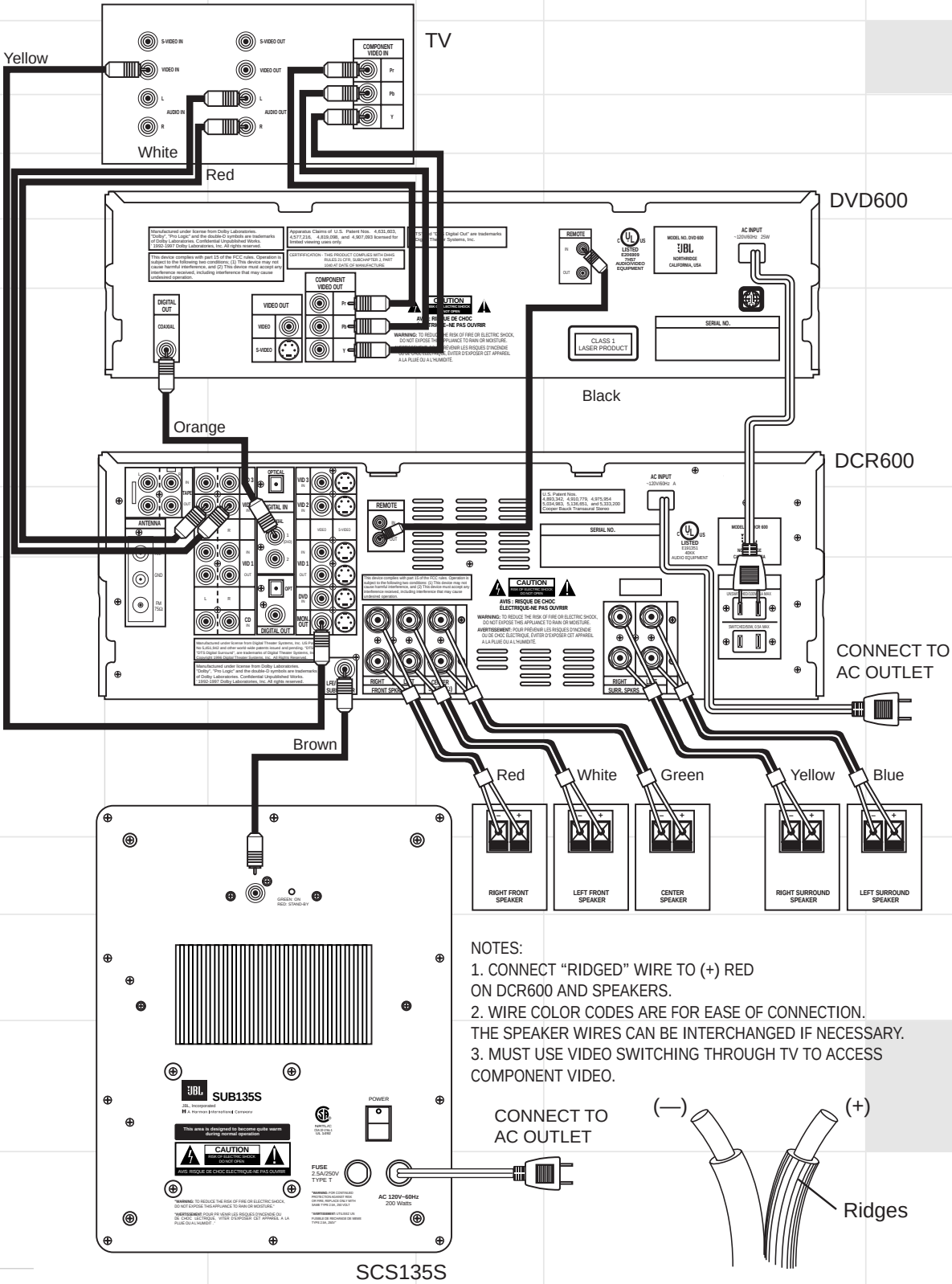
ALTERNATE INSTALLATION FOR BETTER PICTURE QUALITY: Your TV must have an S-Video input, and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. Two pieces of S-Video cable are not included and should be purchased separately.



NOTES:
1. CONNECT "RIDGED" WIRE TO (+) RED ON DCR600 AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION. THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.

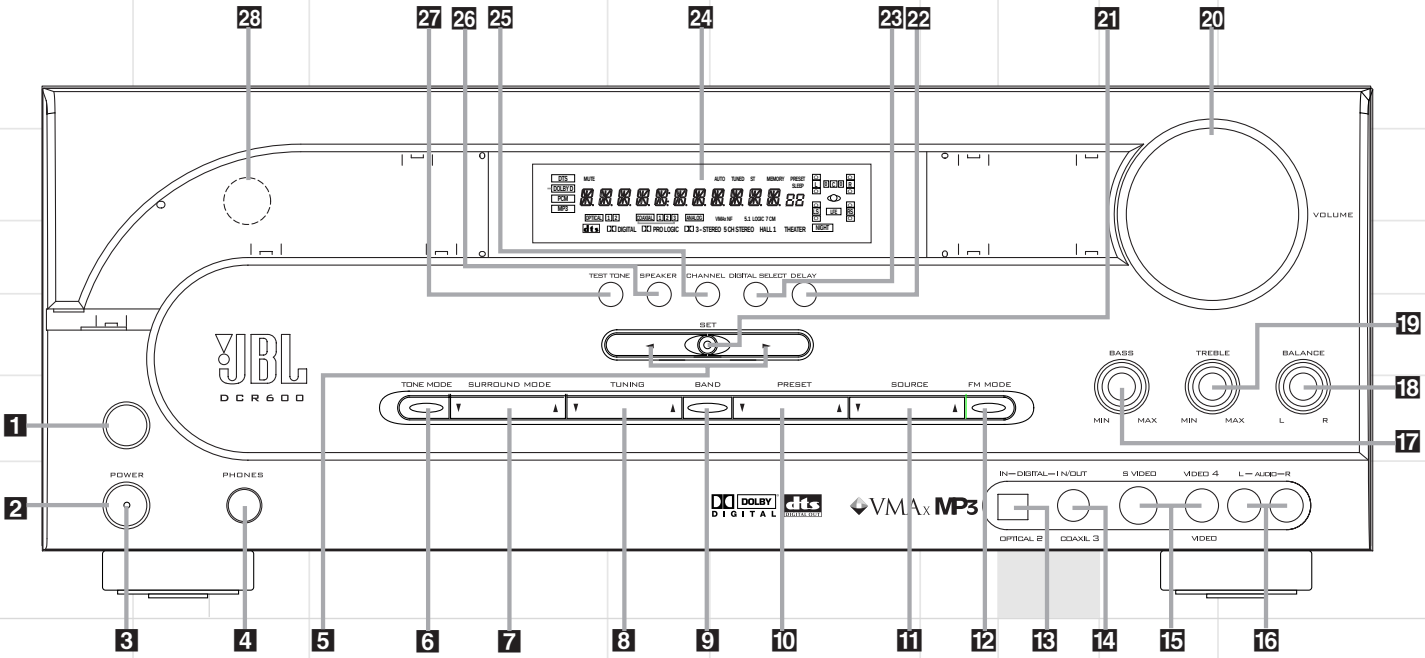
Quick Installation Diagrams (Continued)

ALTERNATE INSTALLATION FOR BEST PICTURE QUALITY: Your TV must have Y/Pr/Pb component video inputs (three separate RCA connectors with red-, blue- and green-colored cores), and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. The composite video cable is not included and should be purchased separately. This setup requires that the TV's own video switching is utilized to access DVD picture. All other video switching is still done through the DCR600.



NOTES:
1. CONNECT "RIDGED" WIRE TO (+) RED ON DCR600 AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION. THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.
3. MUST USE VIDEO SWITCHING THROUGH TV TO ACCESS COMPONENT VIDEO.

DCR600 Front Panel Controls



1 Main Power Switch: Press this button to apply power to the DCR600. When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the amber **Power Indicator 3** surrounding the **System Power Control 2**. 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 front panel so that the word "OFF" may be read at the top of the switch.

NOTE:
This switch is normally left in the "ON" position.

2 System Power Control: When the **Main Power Switch 1** is "ON," press this button to turn on the DCR600; press it again to turn the unit off. Note that the **Power Indicator 3** in the center of the switch will turn green when the unit is on.

3 Power Indicator: This LED will be illuminated 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 Headphone Jack: This jack may be used to listen to the DCR600's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug. Note that the main room speakers will automatically be turned off when the headphone jack is in use.

5 Selector Buttons: When you are establishing the DCR600's configuration settings, use these buttons to select from the choices available, as shown in the **Main Information Display 24**.

6 Tone Mode: Pressing this button enables or disables the Bass and Treble tone controls. When the button is pressed so that the words TONE IN appear in the **Main Information Display 24**, the settings of the **Bass 17** and **Treble 19** controls may be used to adjust the output signals. When the button is pressed so that the words TONE OUT appear in the **Main Information Display 24**, the output signal will be "flat," without any bass or treble alteration, no matter how the actual **Bass** and **Treble 17 19** controls are adjusted.

7 Surround Mode Selector: Press this button to change the surround mode by scrolling through the list of available modes. Note that depending on the type of input, some modes are not always available. (See page 52 for more information about surround modes.)

8 Tuning Selector: Press the left side of the button to tune lower-frequency stations and the right side of the button to tune higher-frequency stations. When a station with a strong signal is reached, the **TUNED** indicator **U** will be illuminated in the **Main Information Display 24**.

To tune manually, tap the button lightly and note that the tuner will step up one frequency increment per button press. When the button is held for a few seconds you will note that the unit will quickly search the frequency band. Release it once the fast tuning starts; the tuner will automatically scan for the next station with an acceptable signal and then stop.

9 Tuner Band Selector: Pressing this button will automatically switch the DCR600 to the Tuner mode. Pressing it again will switch between the AM and FM frequency bands.

10 Preset Stations Selector: Press this button to scroll up or down through the list or stations that have been entered into the preset memory.

11 Input Source Selector: Press this button to change the input by scrolling up or down through the list of input sources. When an audio source is selected, the last video input used remains routed to the **Video 1 Output** 20 and **Video Monitor Output** 10. This permits you to simultaneously view and listen to different sources.

12 FM Mode Selector: Press this button to select Auto or Manual tuning. When the button is pressed so that the **AUTO** indicator **V** lights, the tuner will search for the next station with an acceptable signal when the **Tuning Selector 8** 45 49 is pressed. When the button is pressed so that the **AUTO** indicator **V** is not lit, each press of the **Tuning Selector 8** 45 49 will increase the frequency.

NOTE: When the FM reception of a station is weak, audio quality will be increased by switching to Mono mode by pressing the **FM (Tuning) Mode Button 12** 41 until the **STEREO Indicator T** goes out.

13 Digital Optical 2 Input: Connect the optical digital output of an audio or video product to this jack. When the Input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance.

14 Digital Coax 3 Jack: This jack is used for connection to the output of portable audio devices, video game consoles or other products that have a coax digital jack.

15 Video 4 Video Input Jacks: These jacks may be used for temporary connection to the composite or S-Video output of video games, camcorders or other portable video products.

16 Video 4 Audio Input Jacks: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players.

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

18 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.

19 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 or room acoustics.

20 Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the DCR600 is muted, adjusting the volume control will automatically release the unit from the silenced condition.

21 Set Button: When making choices during the setup and configuration process, press this button to enter the desired setting as shown in the **Main Information Display 24** into the DCR600's memory. The Set button may also be used to change the display brightness, to avoid interfering with video presentations:

Press and hold the **Set Button 21** on the front panel for three seconds until the message in the **Main Information Display 24** reads VFD FULL. Within five seconds, press the front panel **Selector Buttons 5** until the desired brightness display level is shown. Press the **Set Button 21** again to enter the setting.

When FULL appears in the **Main Information Display 24**, the display is at its normal brightness. When HALF appears, the display is at half the normal brightness level. When OFF appears, all of the indicators in the **Main Information Display 24** will go dark. Note, however, that the **Power Indicator 3** will always remain lit to remind you that the unit is turned on.

Once the desired brightness level is selected, it will remain in effect until it is changed again or until the unit is turned off.

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

23 Digital Input Selector: When playing a source that has a digital output, press this button to select between the **Optical** 13 24 and **Coaxial** 14 25 **Digital** inputs.

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

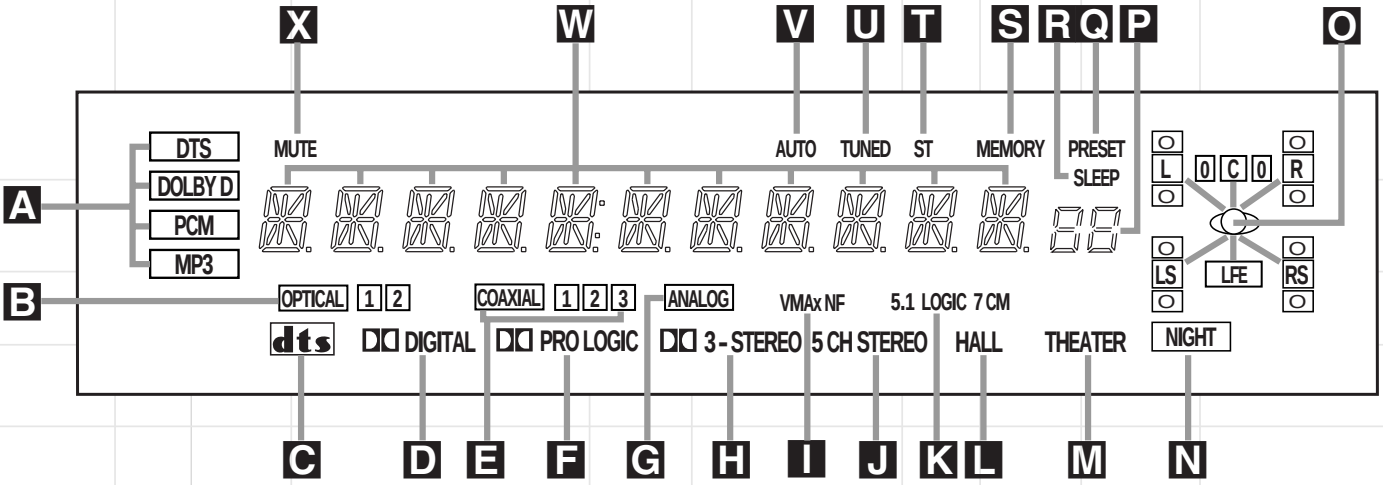
25 Channel Select Button: Press this button to begin the process of trimming the channel output levels using an external audio source.

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

27 Test Tone Selector: Press this button to begin the process of adjusting the channel output levels using the internal test tone as a reference.

28 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.

DCR600 Front Panel Information Display



A Bitstream Indicators: When the input is a digital source, these indicators display the specific type of data signal.

B Optical Source: Indicates an Optical Digital Input has been selected.

C DTS: Indicates a DTS-encoded source.

D Dolby Digital: Indicates a Dolby Digital source.

E Coaxial Source: Indicates a Coaxial Digital Input.

F Dolby Pro Logic: Indicates the Dolby Pro Logic mode has been selected.

G Analog Input: Indicates an analog input source.

NOTE: Analog audio input is not available when the DVD input is in use.

H Dolby 3 Stereo Indicator: This indicator lights when the Dolby 3 Stereo Mode has been selected.

I VMAx Mode: Lights when the VMAx mode is in use. VMAx F appears when the Far Field VMAx mode is selected; VMAx N appears when the Near Field VMAx mode is selected.

J 5-Channel Stereo: Lights when the 5-Channel Stereo mode has been selected.

K Logic 7 Mode: Indicates that the Logic 7 mode is in use. LOGIC 7C appears for the Cinema version of Logic 7; LOGIC 7M appears for the Music version of Logic 7.

L Hall Mode: Lights when the Hall mode has been selected.

M Theater Mode: Indicates that the Theater mode has been selected.

N Night Mode: Indicates that the DCR600 is in the Night mode, which preserves the dynamic range of digital program material at low volume levels.

O Speaker/Channel Input: These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration. The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and all three boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for one of those positions. The letters inside each of the center boxes display active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels being received at the digital input. When the letters flash, the digital input has been interrupted.

P Preset Number/Sleep Timer: In Tuner mode these numbers indicate the preset memory location in use. In Sleep function mode it shows the number of minutes remaining before the unit goes into the Standby mode.

Q Preset Indicator: This indicator lights when the tuner is in use to show that the **Preset Number/Sleep Timer P** is showing the station's preset memory number.

R Sleep Indicator: This indicator lights when the Sleep function is in use.

S Memory: Flashes when entering presets and other information into the tuner's memory.

T Stereo: Lights when an FM station is being tuned in stereo.

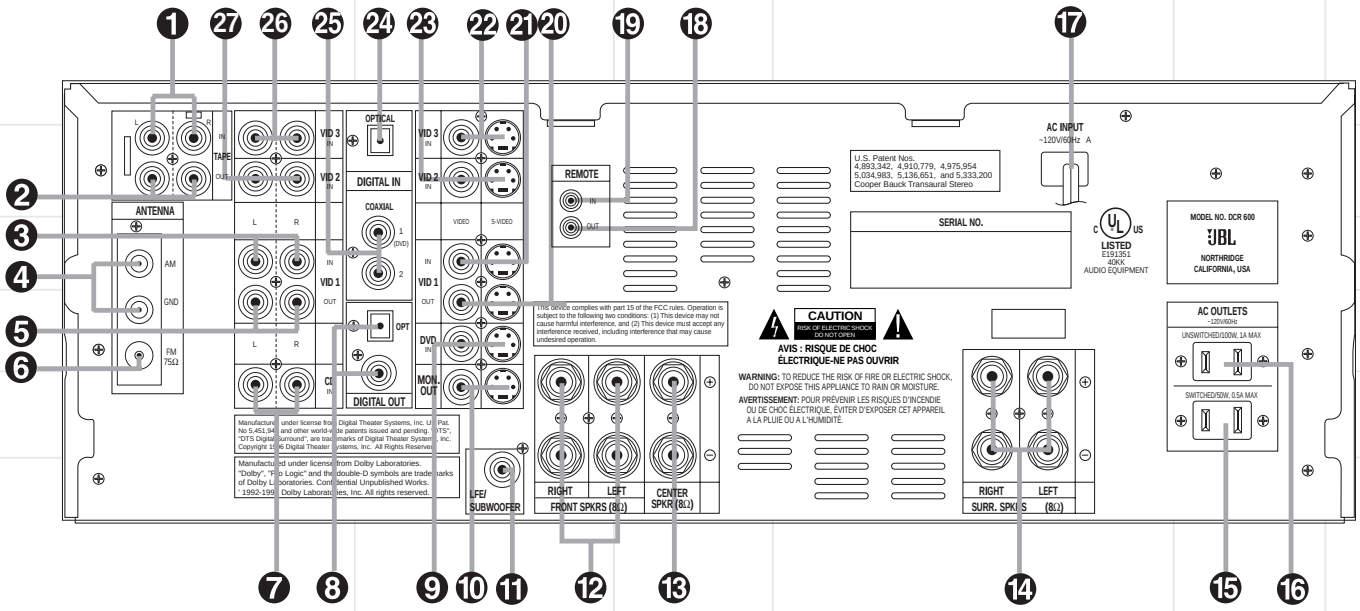
U Tuned: Lights when a station is being received with sufficient signal strength to provide acceptable listening quality.

V Auto: Lights when the tuner is in Auto mode.

W Main Information Display: Shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of operation.

X Mute: Lights to indicate that the unit has been put in Mute by pressing the **Mute Button 3**. Press the Mute button again to return to the previously selected output level.

DCR600 Rear Panel Connections



IMPORTANT NOTES:

A. The AC plug connections should always be the last connections made when installing an A/V system. When making subsequent connections to audio source equipment or speakers, it is always a good practice to unplug the unit from the AC wall outlet. This prevents the possibility of sending audio or transient signals to the speakers that may damage them.

B. Connect devices as per the Quick Setup Guide or per pages 6 through 8 of this manual.

C. The DCR600 offers both composite and S-Video inputs and outputs. However, **either** S **or** composite input/output connections should be used throughout the system in order for it to function properly. Do not use S-Video and composite video connections interchangeably.

D. The digital outputs are active only when a digital signal is present, and they do not convert an analog input to a digital signal, or change the format of the digital signal. In addition, any digital recorder used must be compatible with the output signal. For example, the PCM digital input from a CD player may be recorded on a CD-R or MiniDisc, but Dolby Digital or DTS signals may not.

❶ **Tape Inputs:** Connect to **PLAY/OUT** jacks of an audio recorder.

❷ **Tape Outputs:** Connect to **RECORD/INPUT** jacks of an audio recorder.

❸ **Video 1 Audio Inputs:** Connect jacks to the **PLAY/OUT** audio jacks on a VCR or other video source.

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

❺ **Video 1 Audio Outputs:** Connect to the **RECORD/INPUT** audio jacks on a VCR or other video recorder.

❻ **FM Antenna:** Connect to the supplied indoor, or an optional external, FM antenna.

❼ **CD Inputs:** Connect to output of a CD player.

NOTE: When the CD player has both fixed and variable audio outputs, it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or so high that the signal is distorted.

❽ **Digital Audio Outputs:** Connect to the same type digital input connector on a CD-R or MiniDisc recorder.

❾ **DVD Video Inputs:** Connect to composite or S-Video output jacks on a DVD.

❿ **Video Monitor Outputs:** Connect to composite or S-Video input of a TV monitor or video projector.

⓫ **LFE/Subwoofer Output:** Connect to the LFE or line-level input of a powered subwoofer.

❶ **Front Speaker Outputs:** Connect to matching + and – terminals on front left/right speakers.

⓭ **Center Speaker Outputs:** Connect to matching + and – terminals on center speaker.

⓮ **Surround Speaker Outputs:** Connect to matching + and – terminals on left and right surround speakers.

NOTE: When making speaker connections always make certain to maintain correct polarity by connecting the red (+) terminals on the DCR600 to the red (+) terminals on the speakers and the black (–) terminals on the DCR600 to the black (–) terminals on the speakers.

⓯ **Switched AC Accessory Outlet:** Used to power any device you wish to have turned on when the receiver is turned on with the **System Power Control** 2 switch.

NOTE: Many audio and video products go into a Standby mode when they are used with switched outlets, and cannot be fully turned on using the outlet alone without a remote control command. The JBL Cinema ProPack 600 remote offers ALL OFF and ALL ON commands. If a device is programmed into the remote, do not use the switched outlet to power the device.

⓰ **Unswitched AC Accessory Outlet:** Used to power any AC device. The power will remain on at this outlet regardless of whether the receiver is on or off.

NOTE: The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts.

⓱ **AC Power Cord:** Connect the AC plug to an unswitched AC wall output.

⓲ **Remote IR Output:** Permits the IR sensor in the receiver to serve other remote-controlled devices. Connect this jack to the "IR IN" jack on the DVD600 or other compatible equipment.

⓳ **Remote IR Input:** If the DCR600's front panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack.

⓴ **Video 1 Video Outputs:** Connect to **RECORD/INPUT** composite or S-Video jack on a VCR or other video receiver.

㉑ **Video 1 Video Inputs:** Connect to **PLAY/OUT** composite or S-Video jacks on a VCR or other video source.

㉒ **Video 3 Video Inputs:** Connect to **PLAY/OUT** composite or S-Video jacks on a VCR or other video source.

㉓ **Video 2 Video Inputs:** Connect to **PLAY/OUT** composite or S-Video jacks on a VCR or other video source.

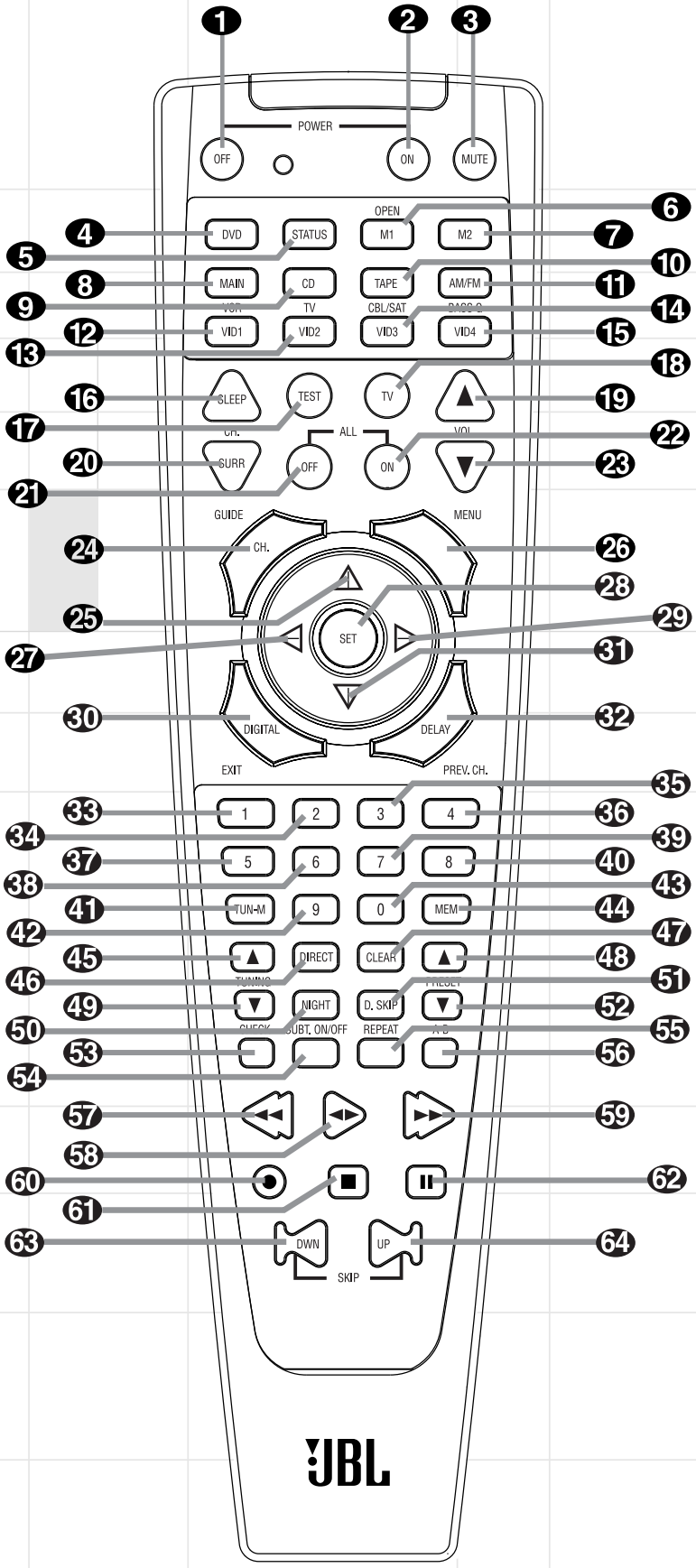
㉔ **Optical Digital Input:** Connect to optical digital output of a digital source. The signal may be either a Dolby Digital signal, a DTS signal or a standard PCM digital source.

㉕ **Coaxial Digital Inputs:** Connect to coax digital output of a digital source. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks.

㉖ **Video 3 Audio Inputs:** Connect to **PLAY/OUT** audio jacks on a VCR or other video source.

㉗ **Video 2 Audio Inputs:** Connect to **PLAY/OUT** audio jacks on a VCR or other video source.

Remote Control Functions



IMPORTANT NOTE: The JBL Cinema ProPack 600 remote control may be programmed to control up to eight devices, including the DCR600 and DVD600. It is helpful to think of the remote as being organized into “pages,” with one page for each device. Depending on which device has been selected, the buttons on that device’s page will perform different functions, as listed starting on the next page. These functions may vary from the labels on the remote, and from one device to the next. Some buttons may perform no function at all for a given device.

In order to go to the page for a particular device, such as the DVD600, you will need to press the Input Selector button for that device (DVD in this case), located in a grouping just below the power buttons. The remote will then function as if it were dedicated to the DVD600.

If you would like to make an adjustment that affects the DCR600 receiver, such as turning the volume up or down, you must first go to the page for the DCR600 by pressing its Input Selector button. This button is labeled "Main" on the remote. The exception to this rule is that the DVD600’s transport functions – Play, Forward and Reverse Search, Stop, Pause, and Previous and Next Chapter/Track Skip – may be accessed from the "Main" page, without having to jump to the DVD page.

1 Power Off Button: Turns off the power to a device selected by pressing its Input Selector.

2 Power On Button: Turns on the power to a device selected by pressing its Input Selector.

3 Mute Button: Press to momentarily silence the DCR600 or TV set being controlled, depending on which device has been selected.

When the remote is being programmed to operate an external device, such as a CD player, this button is pressed, together with the Input Selector button, for the new device to begin the programming process.

4 DVD Input Selector: Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select DVD as the input source. 3) It will switch to the page for the DVD600, which will cause the remote to operate only the DVD changer. Press the **Main Button 8** to return the remote to control of the DCR600 receiver.

5 Status Button: This button operates only when the DVD600 has been selected. When a disc is playing, pressing this button will display the Status Banner, which contains information about the disc and enables you to change the functions.

6 7 M1 and M2 Macro Buttons/Open-Close Button: Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote.

When the DVD600 has been selected, the **M1 Button 6** functions to open or close the disc tray drawer. (**M2 7** has no function.) If the drawer is opened while a disc is still playing, playback will continue and discs not in use may be changed. If the drawer is opened while the unit is stopped, the disc that was playing will be presented at the front-center position of the tray.

8 Main Input Selector: Pressing this button will perform two actions: 1) If the DCR600 is not turned on, it will power up. 2) It will switch to the page for the DCR600, which will cause the remote to operate only the receiver and the transport functions of the DVD600.

9 CD Input Selector: Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select CD as the input source. 3) It will switch to the page for the CD player whose codes have been programmed into the remote, which will cause the remote to operate only the CD player. Press the **Main Button 8** to return the remote to control of the DCR600 receiver.

10 Tape Input Selector: Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select TAPE as the input source. 3) It will switch to the page for the tape deck whose codes have been programmed into the remote, which will cause the remote to operate only the tape deck. Press the **Main Button 8** to return the remote to control of the DCR600 receiver.

11 AM/FM Tuner: Selects the DCR600's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands.

12 Video 1 Input Selector (VCR): Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 1 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. You may find it convenient to connect your VCR to the Video 1 input, since it is the only video source that also features outputs for recording. Press the **Main Button 8** to return the remote to control of the DCR600 receiver.

13 Video 2 Input Selector (TV): Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 2 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. You may find it convenient to connect your television to the Video 2 input. Press the **Main Button 8** to return the remote to control of the DCR600 receiver.

14 Video 3 Input Selector (Cable or Satellite): Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 3 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. You may find it convenient to connect your cable television box or satellite receiver to the Video 3 input. Press the **Main Button 8** to return the remote to control of the DCR600 receiver.

15 Video 4 Input Selector: Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 4 (the front-panel input) as the input source. 3) It will switch to a special page that is preprogrammed to operate the JBL BassQ™ low-frequency equalization module. You may find it convenient to connect your portable camcorder or video game to the Video 4 input. Press the **Main Button 8** to return the remote to control of the DCR600 receiver.

16 Sleep: Places the DCR600 in the Sleep Timer mode. After the time shown in the display has elapsed, the DCR600 will automatically go into Standby. Each press of this button changes the time until turn-off in intervals of 10 minutes, starting with a maximum of 90 minutes.

This button is also used to change channels on your TV when the TV is selected.

This button is also used during the "Auto Search" procedure when programming the remote.

17 Test: Begins the sequence used to calibrate the speaker output levels.

When the CD input has been selected and a CD recorder is in use, this button is used to select among the analog and digital inputs to the CDR.

18 TV/VCR: This button does not have a function on the DCR600 or DVD600, but when used with a compatibly programmed VCR, DVD, TV or Satellite receiver that has a "TV/Video" function, pressing this button will switch between the output of that device and the external video input to that device. Consult the owner's manual for your specific player or satellite receiver for the details of how it implements this function.

19 Volume Up: Use to raise the system volume.

20 Surround Mode/Audio: Begins the process of changing the surround mode when the DCR600 is selected. After the button has been pressed, use the **▲/▼ Buttons 25 31** to select the desired surround mode.

When the DVD600 is selected, this button allows you to select from the available audio tracks or languages on a DVD disc that is currently playing.

This button is also used to tune channels when the TV is selected.

This button is also used during the "Auto Search" procedure when programming the remote.

㉑ **All Off:** Simultaneously sends Power Off commands to all programmed devices controlled by the remote.

㉒ **All On:** Simultaneously sends Power On commands to all programmed devices controlled by the remote.

㉓ **Volume Down:** Use to lower the system volume.

㉔ **Channel/Title/Guide:** Starts the process of setting the DCR600's speaker output levels using an input source rather than the test tone. Press this button, then use the ▲/▼ **Buttons** ㉕ ㉛ to select the channel being adjusted, followed by the **Set Button** ㉘. You may then use the ▲/▼ **Buttons** ㉕ ㉛ again to change the level for that channel. Press the **Set Button** ㉘ to lock in the setting.

When using the DVD600 to play a DVD disc, this button functions as a Title button, and displays the disc's Title Select Menu, or a symbol (Ø) if the disc either does not offer this function or has only one title.

When the Video 3 input has been programmed for a cable or satellite service, this button will access the service's programming guide, if the service is active.

㉕ **▲:** Used to change or scroll through items in the on-screen menus, or to change configuration settings, such as output levels. When changing an item such as the surround mode or digital input directly, first press the function or mode to be changed, such as Surround Mode or Digital Input, and then press this button to scroll through the list of available choices.

㉖ **Menu:** Used only with video sources. When DVD is selected, pressing this button while a DVD disc is playing stops playback and displays the disc's menu. When the unit is stopped, pressing this button displays the DVD600's Setup Menu.

㉗ **◀:** Used to change the menu selection or setting during some of the setup or other procedures.

㉘ **Set:** Used to enter settings into the memory of the DCR600, DVD600 or video device selected. Also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. When the DVD600 has been selected, pressing this button will select the item that is highlighted in the Status Banner, or in the on-screen menu displayed by a DVD disc.

㉙ **▶:** Used to change the menu selection or setting during some of the setup or other procedures.

㉚ **Digital/Subtitle/Exit:** When the DCR600 is selected, press this button to assign one of the digital inputs to a source. When the DVD600 is selected, this button is used to change the subtitle choice. For other video devices, it exits the menu.

㉛ **▼:** Used to change or scroll through items in the on-screen menus, or to change configuration settings, such as output levels. When changing an item such as the surround mode or digital input directly, first press the function or mode to be changed, such as Surround Mode or Digital Input, and then press this button to scroll through the list of available choices.

㉜ **Delay/Return/Prev Ch.:** Begins the process for setting the delay times used by the DCR600 when processing surround sound. After pressing this button, the delay times are entered by pressing the **Set Button** ㉘ and then using the ▲/▼ **Buttons** ㉕ ㉛ to change the setting. Press the **Set Button** ㉘ again to complete the process.

This button is also used when viewing a menu display from a DVD disc. Press it to return to the previous menu screen.

㉝–㊵, ㊷ ㊸ **Numeric Keys:** These buttons serve as a ten-button numeric keypad to enter tuner preset positions. They are also used with the DVD600 to enter data for sequential programming, to enter or change the access password for parental control, to enter a language code, or to respond to menu options presented by a disc. When the TV or another video device is selected, they are used to select channel numbers. They may also be used to select track numbers when playing a CD, DVD or LD.

㊶ **Tuner Mode/Angle:** 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 **V** goes out, pressing the **Tuning Buttons** ㊺ ㊾ **8** 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.

When a DVD encoded with multiple-angle information is playing, press to change the angle in use. Note that this function is only available on discs that are specially prepared to take advantage of the multiple-angle function, and only for those parts of the disc that are recorded with multiple-angle content. The DVD600 will display a camera icon on the screen to indicate when this feature is available.

㊹ **Memory:** Enters a radio station into the DCR600's preset memory. Once the **MEMORY Indicator** **S** flashes, you have five seconds to enter a preset memory location using the **Numeric Keys** ㉝–㊵, ㊷ ㊸. Repeat the process to enter additional stations.

㊺ ㊾ **Tuning Up/Down/Step (Frame Advance) Buttons:** When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the **Tuner Mode Button** ㊶ **12** has been pressed so that the **AUTO Indicator** **V** is illuminated, pressing and holding either of the buttons for three seconds will cause the tuner to seek the next station with acceptable signal strength for quality reception. When the **AUTO Indicator** **V** is NOT illuminated, pressing these buttons will tune stations in single-step increments.

When a DVD disc is playing, press these buttons to move forward or backward one frame at a time. Press the **Play Button** ㊽ **10D** to resume normal play. These buttons do not function when a CD is playing.

㊻ **Direct/Program Button:** Pressing this button in tuner mode starts the sequence for direct entry of a station's frequency or CD track. After pressing the button, simply press the proper **Numeric Keys** ㉝–㊵, ㊷ ㊸ to select a station or track.

When the DVD600 is stopped, press this button to display the program menu and enter a programmed play sequence. When a disc is playing, press to switch between normal play and programmed playback.

㊼ **Clear Button:** Erases incorrect entries when using the remote to directly enter a radio station's frequency.

When the DVD600 has been selected, press this button to remove the Status Banner or other displays from your video screen. This button is also used to clear items from Programmed Play lists.

48 52 Preset Up/Down/Slow-Play Buttons: When the tuner is in use, press these buttons to scroll through the stations programmed into the DCR600's memory.

When a DVD disc is playing and the DVD600 has been selected, press these buttons to move forward or backward through the disc in slow speed. Each press of these buttons changes the slow-play speed in the following order: 1/16 Normal Speed → 1/8 Normal Speed → 1/4 Normal Speed → 1/2 Normal Speed. To resume normal play, press the **Play Button** 58 10D . These buttons do not function when a CD is playing.

50 Night Mode/Random: Activates the Night mode of the DCR600. This mode is available in specially encoded digital sources, and it preserves dialogue (center-channel) intelligibility at low volume levels.

When the DVD600 has been selected, press to begin the playback of all tracks on a disc in random order.

51 Disc Skip Button: Press to move to the next available disc in the tray when using a DVD or CD player. This button has no direct effect on the DCR600.

53 Check: This button only functions when the DVD600 has been selected. When a CD is playing, press this button to check the status of the current disc via the on-screen display. This button is also used to verify the contents of a programmed play list via the front-panel Information Display.

54 Subtitle On/Off: This button only functions when the DVD600 has been selected. When a DVD is playing, press this button to turn the Subtitle Display on or off.

55 Repeat: This button only functions when the DVD600 or a CD player has been selected. Press to select a Repeat-Play mode. Each press of the button shows the choice selected in both the on-screen Status Banner display or in the **Repeat Indicators** 11 in the front-panel Information Display.

56 Repeat A–B: This button only functions when the DVD600 has been selected. Press once to begin the selection of a portion of a disc to be repeated. Press it again to choose the end point of the repeat-play selection.

NOTE: When any of the following buttons 57 –64 is pressed while the remote has selected the Main Page, the remote will automatically switch to control of the DVD, as indicated by the DVD **Input Selector** 4 lighting.

57 Reverse Search/Rewind: When the DVD600 has been selected, press to move backward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: R. Search x 2 → R. Search x 4 → R. Search x 8 → R. Search x 16. Once you have selected the desired speed, release the button, and the disc will continue to search at fast speed. To resume normal playback, press the **Play Button** 58 10D .

When a tape deck or VCR has been selected, this button rewinds the tape.

58 Play Button: Press to begin playback when the DVD600 has been selected. If the disc tray drawer is open, it will automatically close when the button is pushed. Pressing the Play button when the unit is in the Standby mode will turn the unit on and begin playback of the last disc in use.

When a CD player, tape deck or VCR has been selected, pressing this button will also begin playback. See the owner's manual for that device for more information on the operation of the play function as it affects that device.

59 Forward Search/Fast Forward: When the DVD600 has been selected, press to move forward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: F. Search x 2 → F. Search x 4 → F. Search x 8 → F. Search x 16. Once you have selected the desired speed, release the button, and the disc will continue to search at fast speed. To resume normal playback, press the **Play Button** 58 10D .

When a tape deck or VCR has been selected, this button fast-forwards the tape.

60 Record Button: This button only functions when a CD/CDR, tape deck or VCR connected to the Video 1 input has been selected. See the owner's manual for that device for further information on how to make recordings.

61 Stop Button: This button has no effect on the DCR600. When the DVD600 has been selected, press this button once to place the disc in the Resume mode. Playback will stop, and as long as the tray is not opened or the disc changed, DVD playback will continue from the same point on the disc when the **Play Button** 58 10D is pressed again, even if the unit has been turned off in the interim. To stop a disc without entering Resume mode, press the Stop button twice.

This button also performs the Stop function when a CD player, tape deck or VCR connected to the Video 1 input has been selected.

62 Pause Button: Press to pause the disc in use. To resume playback, either press the Pause button again, or press the **Play Button** 58 10D .

63 64 Previous/Next: Press to move backward or forward through the music tracks on a CD disc or the chapters on a DVD disc. This button also scans backward or forward when a VCR connected to the Video 1 input has been selected.

TROUBLESHOOTING

Processor Reset

In the rare case where the DCR600's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor.

To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem.

To clear the DCR600's entire system memory including tuner presets, output level settings, delay times and speaker configuration data, first put the unit in Standby by pressing the **System Power Control Button** 2. Next, press and hold the **Tone Mode** 6 and the **FM Mode Selector** 12 buttons for three seconds.

The unit will turn on automatically and display the RESET message in the **Main Information Display** W. Note that once you have cleared the memory in this manner, it is necessary to reestablish all system configuration settings and tuner presets.

NOTE: Resetting the processor will erase any configuration settings you have made for speakers, output levels, surround modes and digital input assignments, as well as the tuner presets. After a reset, the unit will be returned to the factory presets, and all settings for these items must be reentered.

If the system is still operating incorrectly, there may have been an electronic discharge or severe AC line interference that has corrupted the memory or microprocessor.

If these steps do not solve the problem, consult an authorized JBL service center.

In the event that you forget the password for the DVD600, you may reset it to the factory default by following this procedure: In Standby mode, press the **Search Back** 5D and **Skip Forward** 7D buttons on the front panel simultaneously for more than 3 seconds. The **Information Display** W will light, and a test pattern will appear on your TV. Press **Power On** 2 to proceed.

SYMPTOM	PROBABLE CAUSE	SOLUTION
DCR600 does not function when Main Power Switch is pushed	• No AC Power	• Make certain AC power cord is plugged into a live outlet. • Check to see whether outlet is switch-controlled.
DVD600 does not turn on	• Main Power Switch turned off • No AC power	• Press in Main Power Switch. • Check AC power plug and make certain any switched outlet is turned on.
Display lights, but no sound	• Intermittent input connections • **Mute** is on • Volume control is down	• Make certain that all input and speaker connections are secure. • Press **Mute** button. • Turn up volume control.
Unit turns on, but front panel display does not light up	• Display brightness is turned off	• Follow the instructions in the Display Brightness section so that the display is set to VFD FULL.
No sound from any speaker; light around power switch is red	• Amplifier is in Protection mode due to possible short • Amplifier is in Protection mode due to internal problems	• Check speaker wire connections for shorts at receiver and speaker ends. • Contact your local JBL service center.
No sound from any speaker	• No audio signal is being transmitted to the speakers • If in DVD mode, make sure that analog input is not accidentally assigned • Intermittent connections • Incorrect digital audio selection • DVD disc is in Fast or Slow mode	• Check that DCR600 is on and a source is playing. • Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • Review proper operation of the DCR600. • Check Input assignment for DVD Input. DVD Input should be set to COAX 1 and the DVD600 Digital Output should be connected to **Coaxial 1 Digital Input** 25 on the DCR600. • Check all audio connections. • Check digital audio settings. • There is no audio playback on DVD discs during Fast or Slow modes.

Troubleshooting (Continued)

No sound from one speaker	• Balance is not at "12 o'clock" • No audio signal is being transmitted to the speakers	• Check the Balance control on the DCR600. • Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • In Dolby Digital or DTS modes, make sure that the DCR600 is configured so that the speaker in question is enabled.
No sound from surround or center speakers	• Incorrect surround mode	• Select a mode other than Stereo. • Make sure the movie or TV show you are watching is recorded in a surround-sound mode. If it is not, try using another surround mode.
	• Input is monaural	• There is no surround information from mono sources.
	• Stereo or Mono program material	• The surround decoder may not create center- or rear-channel information from nonencoded programs. • Review the operation of your DVD player and the jacket of your DVD to make sure that the DVD features the desired Dolby Digital or DTS mode, and that you have properly selected that mode using both the DVD player's menu and the DVD disc's menu.
	• No audio signal is being transmitted to the speaker	• Check all wires and connections between the DCR600 and speaker. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
	• Incorrect configuration	• If the DCR600 is set in Dolby Pro Logic mode, make sure the center speaker is not in Phantom mode. • If the DCR600 is set in Dolby Digital or DTS mode, make sure it is configured so that the center speaker is enabled. • In Dolby Digital or DTS modes, make sure the DCR600 is configured so that the surround speakers are enabled. • Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
System plays at low volume but shuts off as volume is increased	• Speaker impedances are dropping too low for receiver to handle	• Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • Do not use more than one pair of main speakers.
Low (or no) bass output	• Speakers are connected out of phase	• Make sure the connections to the left and right Speaker Inputs have the correct polarity (+ and –).
	• Subwoofer not activated	• Make sure the subwoofer is plugged into an active electrical outlet and turned on.
	• Subwoofer output of DCR600 not enabled	• In Dolby Digital or DTS modes, make sure the DCR600 is configured so that the subwoofer and LFE output is enabled.
Unit does not respond to remote commands	• Weak batteries in remote	• Change remote batteries.
	• Wrong device selected	• Press the **Main** 8 or **DVD** 4 selector.
	• Remote sensor is obscured	• Make certain front panel sensor is visible to remote or connect remote sensor.
Intermittent buzzing in tuner	• Local interference	• Move unit or antenna away from computers, fluorescent lights, motors or other electrical appliances.
Letters flash in the channel indicator display and digital audio stops	• Digital audio feed paused	• Resume play for DVD. • Check that Digital Input is selected.

Troubleshooting (Continued)

Disc does not play	• Disc loaded improperly • Incorrect disc type • Invalid Region Code • Rating is above parental preset	• Load disc label-side up. • Check to see that disc is CD, CD-RW, DVD-Movie or Video CD; other types will not play. • Use Region 1 disc only. • Enter password to override or change rating settings.
No picture	• Intermittent connections • Wrong Input	• Check all video connections. • Check input selection of TV or DCR600.
Picture is distorted or jumps during Fast Forward or Reverse Play	• MPEG-2 decoding	• It is a normal artifact of DVD playback for pictures to jump or show some distortion during rapid play.
Some remote buttons do not operate during DVD play	• Function not available for this disc	• Some discs do not include all DVD features.
The menu is in a foreign language	• Incorrect menu language	• Change menu language selection.
"Ø" symbol appears	• Requested function not available at this time	• Certain functions may be disabled during passages of a disc.
Picture is displayed in the wrong aspect ratio	• Incorrect match of aspect ratio settings to disc	• Change Aspect Ratio settings.
Disc will not copy to VCR	• Macrovision protection	• Most DVDs are encoded with Macrovision to prevent copying to VCR.

TECH TIPS

Troubleshooting tips and solutions to common service problems

For models:

JSR635
JSR635i
JSR400
DCR600
DCR600II

TIP# JBLTT2003-01 Rev1

Subject: Backup Memory on JBL Receivers

In the event of the complaint: "the receiver is losing its memory (any programmed system settings) when the unit is turned off, or after the unit is unplugged (briefly*)":

Check and replace:

Model	Designator	Location	Description	Part number
JSR635	C712	Front PCB	.047 Farad 5.5v capacitor	# 3439247315
JSR635i	C714	Front PCB	.047 Farad 5.5v capacitor	# 3439247315
JSR400	C11	Control (Front) PCB	.047 Farad 5.5v capacitor	# 1881-000-010
DCR600	C216	Front PCB	.047 Farad 5.5v capacitor	# 55134360
DCR600II	C216	Front PCB	.047 Farad 5.5v capacitor	# 55134360

* After approximately two weeks of being disconnected from AC supply, even a normally functioning receiver may lose any programmed settings and switch to default settings.

DCR600 IDLE CURRENT ADJUSTMENT:

Turn main power on; let unit idle (no load) for 5 minutes.

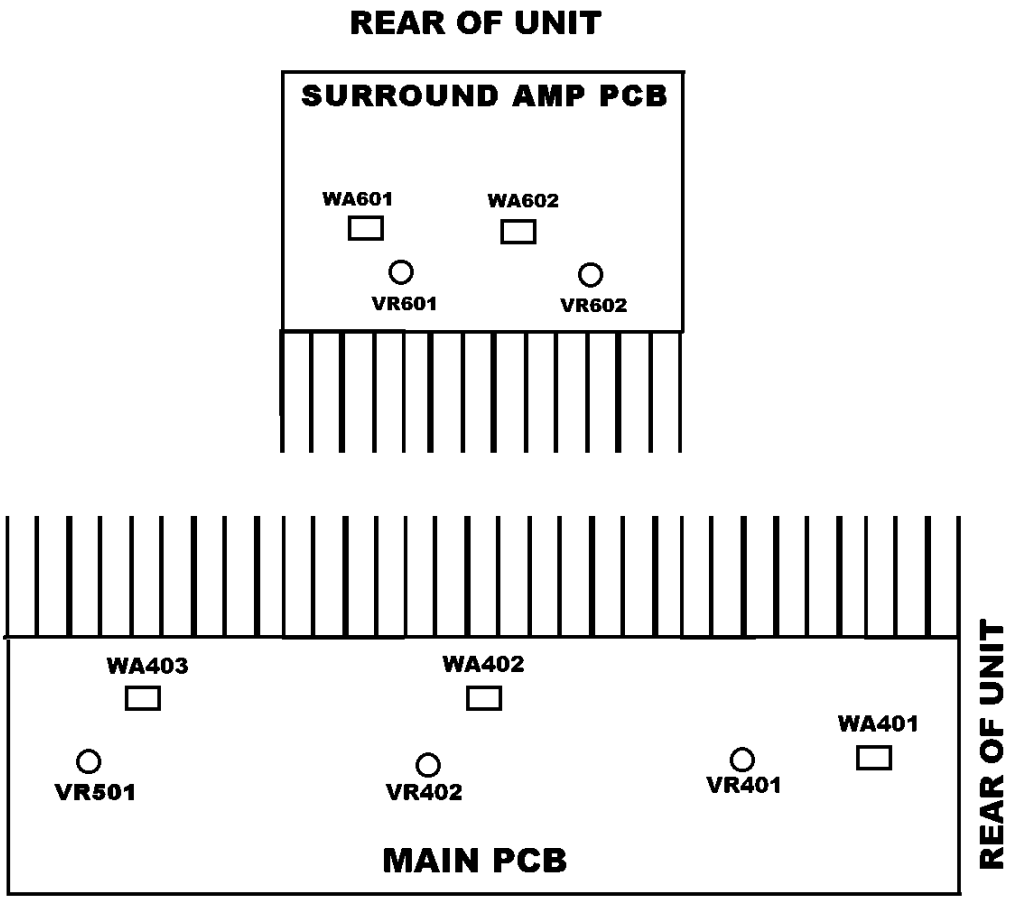
Check points: White female connectors: WA401,WA402,WA403,WA601,WA602

Adjust – Variable resistors: VR401,VR402,VR501,VR601,VR602

to **21mV +/- 3mV.**

Use caution not to short the two pins together in each connector.

After 5 min. more check again, and re-adjust if necessary.

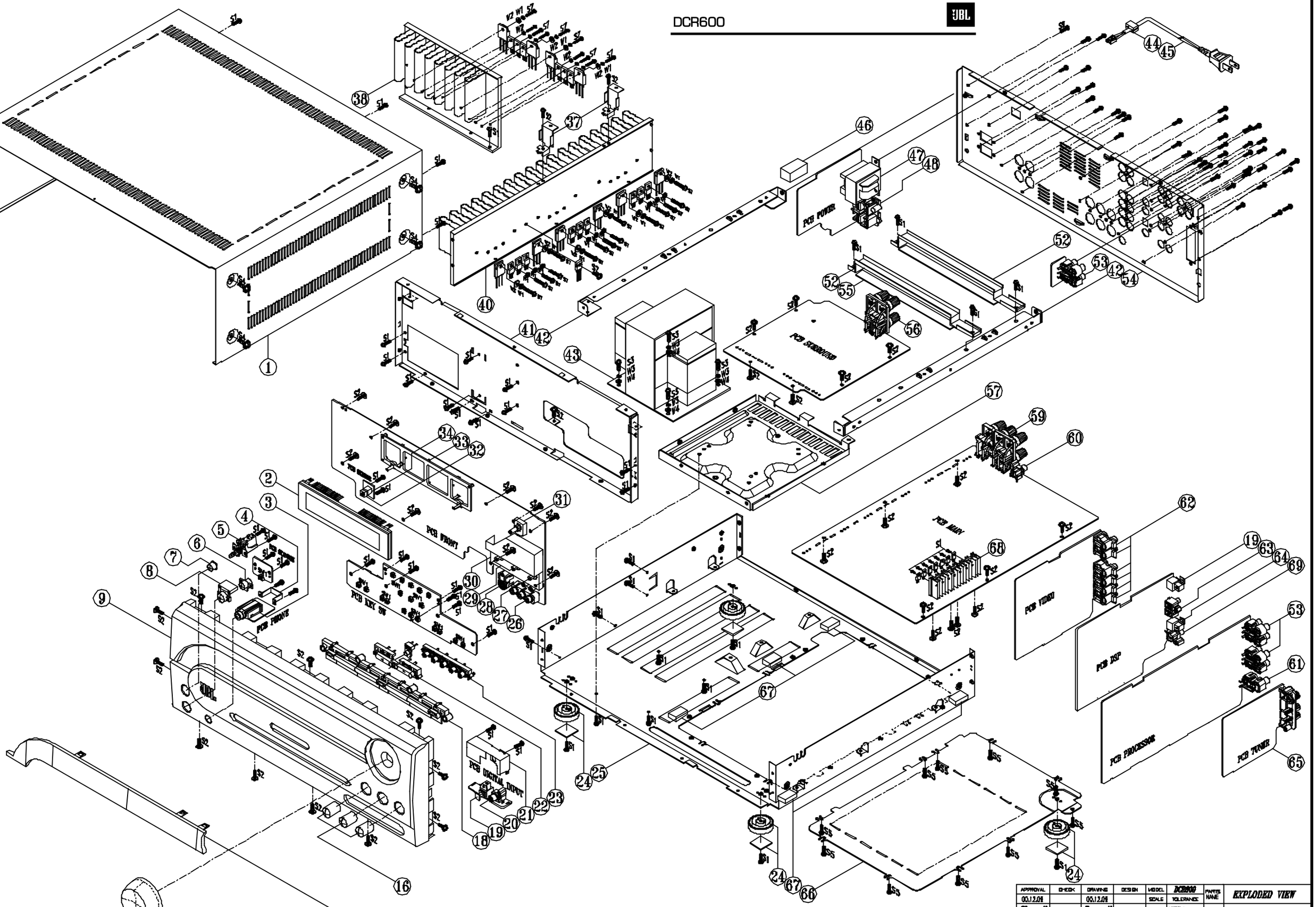


DCR600 TUNER ALIGNMENT

There is no tuner alignment possible on the DCR series. In the event of a misalignment or problem, traced to the Tuner PCB, order complete PCB below:

DCR600

(120V) Part# **J4099100170X**



APPROVAL	CHECK	DRAWING	DESIGN	MODEL	DCR600	PARTS NAME	EXPLODED VIEW
00.12.04		00.12.04		SCALE	TOLERANCE		
Chae Il Lee		Dong Il Choi		NONE SCALE	LESS± LESS± LESS± LESS±	PARTS NO.	
						DWG. NO.	

DCR600 US EXPLODED VIEW PART LIST

NO	PARTS CODE	PARTS NAME	Q'TY	MATERIAL & SPEC	NO	PARTS CODE	PARTS NAME	Q'TY	MATERIAL & SPEC
1	J60100008000	COVER TOP	1	SECC+VCM	51				
2	J2352230020X	VFD SAMSUNG	1	HNA-16LL15	52	J60300501000	BKT PCB	2	SECC 1.0t
3	J44329000102	JACK PHONE KUNMING	1	HTJ-064-07BG	53	J44302401201	JACK RCA 4P WWRR	2	JW4104RS
4	J60300002000	BKT PHONE	1	SECC 1.0t	54	J60110009600	PANEL REAR	1	SECC 1.0t
5	J60300002000	SW PUSH POWER TV-3	1	SDDLB14700	55	J97200503000	CUSHION BKT 11X45X2t	3	EVA
6	J85400053000	INDICATOR STANDBY	1	SAN	56	J44001400000	TERMINAL SCREW 4P	1	SH04103373P
7	J85200140000	BUTTON POWER	1	HIPS 94HB	57	J60120502000	TRANS BOTTOM	1	SECC 1.0t
8	J85200141000	BTN STANDBY	1	HIPS 94HB	58				
9	J85000027000	PANEL FRONT	1	HIPS 94HB	59	J44001600000	TERMINAL SCREW 6P	1	SH0611701P
10	J85200139200	BTN 2 KEY L	1	HIPS 94HB	60	J44301001100	JACK RCA 1P BROWN	1	JE010003PN
11					61	J44302201101	JACK RCA 2P WR	1	JW-1609RS
12					62	J44312000100	JACK RCA+S-VIDEO YB	6	C5016031DN
13	J85100030000	KNOB MAIN	1	HIPS 94HB	63	J44302001100	JACK RCA 2P OO DAERYUNG	1	JC0200098N
14	J85300139700	WINDOW DISPLAY ACRYL	1	SAN	64	J2123806002X	FIBER OPTICAL MODULE	1	
15					65	J4099100170X	ASS'Y TUNER MODULE	1	
16	J85100031000	KNOB TONE	3	HIPS 94HB	66	J60120501100	COVER BOTTOM	1	SECC 1.0t
17					67	J97200501000	CUSHION(B)	8	EVA
18	J85200139500	BTN 7 KEY	1	HIPS 94HB	68	J60530002100	HEATSINK 118X20X60H	1	AL 6063-T5
19	J2123806001X	FIBER OPTICAL MODULE	2		69	J44301000700	JACK RCA 1P ORANGE	1	JED10003MN
20	J44301000600	JACK RCA 1P O GOLD	1	JE010003MG	70				
21	J60600015000	SHIELD DIGITAL	1	ET 0.5t	71				
22	J85200139210	BTN 2 KEY R	1	HIPS 94HB	72				
23	J85200139500	BTN 5KEY	1	HIPS 94HB	73				
24	J85900501000	A'SSY FOOT	4	ABS+TPR	74				
25	J60000010000	CH MAIN	1	SECC 1.0t	75				
26	J44303000100	JACK RCA 3P YWR DAERYUNG	1	JK03000B1C					
27	J32214000101	VR BALANCE J/ALPS	1	RK14K12400BQ					
28	J44311000100	JACK S-VIDEO DAERYUNG	1	C40160261N					
29	J32214000201	VR TONE J/ALPS	2	RK14K12400BR					
30	J60600006000	SHIELD FENCE TONE	1	ET 0.5t					
31	J32616100001	ENCODER J/ALPS	1	EC16B24204					
32	J2411320014X	REMOTE SENSOR	1						
33	J85810009000	FL GUIDE	1	HIPS 94HB					
34	J63330000600	SPONGE SENSOR	1						
35									
36									
37	J5214004010X	BKT PCB HEATSINK	2	SECC 1.0t					
38	J5241004030X	HEATSINK POWER AVR35	1	AL 6063-T5					
	J60500015000	HEATSINK SURROUND							
40	J5241004020X	HEATSINK MAIN AVR35	1	AL 6063-T5					
	J60500014000	HEATSINK MAIN	0	AL 6063-T5					
41	J60020003200	CH FRONT	1	SECC 1.0t					
42	J60200012000	FRAME GUIDE	1	SECC 1.0t					
43	J2802210064X	POWER TRANS	1						
44	J65100000100	BUSHING AC CORD	1						
45	J43730100100	CORD AC POWER	1	UL SPT II					
46	J97200502000	CUSHION SPONGE	1						
47	J2812420032X	TRANS STANDBY	1						
48	J44900000110	AC OUTLET	1	AZ04D0043P					
49									

NO	PARTS CODE	PARTS NAME
W1	5541-001-010	WASHER SPRING NO:2 M3 MC
W2	5541-001-020	WASHER FLAT P/W 3.3X8.0X0.5 MC
W3	5541-001-030	WASHER SPRING NO:2 M4 MC
W4	5541-001-040	WASHER FLAT P/W 4.7X1.2X1 MC

NO	PARTS CODE	PARTS NAME
S1	J5636140010X	SCREW A123010002 BTTB 3X10B
S2	J5636140040X	SCREW A183008000 BTTN W3X8Y
S3	J5636140080X	SCREW A124008000 BTTB 4X8Y
S4	J5636140150X	SCREW A180400802 #2 WPT 4X8B
S5	J5636140220X	SCREW 3X6B
S6		
S7	J5636140030X	SCREW A113016000,BTTB 3X16Y
S8		
S9	J80720301080	SCREW 3X10B BLACK TEETH

NO	PARTS CODE	PARTS NAME
SW1	J46500500501	SW TACT 2P SKQNAE 160gf

BLOCK DIAGRAM DCR600

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS

COMPONENT VIDEO
Pr Pb Y
DVD
VID2
MON
BA7603 IC508
BA7660FS IC509
6dB 6dB 6dB

ANT
FM
AM
FM/AM TUNER MODULE
RDS DEMODUL
TUNER OUT

FL701
MPEG DTS AC-3 PCM HDCD
MUTE T.MON RDS PTY CT RT TA AUTO TUNED ST MEMORY PRESET SLEEP
COAXIAL 1/2 OPTICAL 1/2 ANALOG MPEG VMAx LOGIC 7CM dts THX
DIGITAL PRO LOGIC 3 STEREO HALL 12 THEATER STADIUM CHURCH OSD NIGHT MULTI

KEY MATRIX
MULTI IN OUT
LTV817 LTV817
RMC SENSOR
COMMANDER
RESORNATOR
C P U
IC701
6V REGU.
ST-BY TRANS
-30V
RL981
RELAY
PUSH S/W
AC-CORD
FU981
US Version AC OUTLET
switched
unswitched

EUROPE : 230/50Hz
USA : 120/60Hz

CPU
RDS DATA
RDS CLK
DATA IN
CLK
CE
DATA OUT
TUNED
MUTE

- VIDEO PARTS
- SUPPLY PART
- TUNER PARTS
- DD/DTS PARTS
- PRE PARTS
- MAIN AMP PARTS
- POWER SUPPLY PARTS

FL AC 6V
+15V
-15V
+5V(LED)
+5VV. -5VV.
+5VA.+5VD
+3.3VA. +3.3VD.
REGULATOR
+15V. -15V.
+5V(LED)
+5VV. -5VV.
+5VA.+5VD
+3.3VA. +3.3VD.
MAIN POWER TRANS
3-CH AMP (POWER/DRIVER)
2-CH AMP (POWER/DRIVER)
AMP POWER SUPPLY

AUDIO
VID4(IN/OUT)
TAPE I O
MULTI-ROOM
VID3
VID2 I O
VID1 I O
DVD
CD
IC707
IC711
IC708
IC709
TC9273-007 IC701
TC9273-007 IC702
TC9163 IC705
IC715
IC712
IC710
2CH-VOLUME TC9459N IC703
KIC9163 IC705

6-CH DIRECT-IN
KTC9162 IC705
FR FL S-L S-R CTR SW
IC507 IC512
+10.5dB IC720
L-CH Same Block

Summing Circuit
IC721 IC722
KIC9163 IC705
Q732 2SK117

(SAME AS LEFT CHANNEL)
RIGHT CHANNEL

H/P AMP IC719
DISCRETE BUFFER
HEAD PHONE
MUTE
KIC9163 IC705
IC716
DISCRETE BUFFER
PRE OUT MAIN IN
DISCRETE MAIN AMP
PROTECTION
FRONT SPKR

C-VIDEO/S-VIDEO
VID3
VID2 I O
VID1 I O
DVD
VID4 (IN/OUT)
MONITOR
NJM2296 IC601
NJM2296 IC602
NJM2296 IC603
M35010 BA7046 IC607 IC609
IC608 MC14053

DSP BLOCK
SW CTR S-R S-L FL FR
SHEET-2/2

MASTER VOLUME
FR FL SL SR CTR SW
TC9482N IC706

IC714
IC705-B TONE
IC713-A
IC705-A TONE
IC713-B
IC717-A
IC717-B
IC718-A
IC718-B

SURR L-CH OUT IN
DISCRETE S-L AMP
PROTECTION
S-L SPKR

SURR R-CH OUT IN
DISCRETE S-R AMP
PROTECTION
S-R SPKR

CENTER OUT IN
AVR510 ONLY
DISCRETE CENTER AMP
PROTECTION
CENTER SPKR

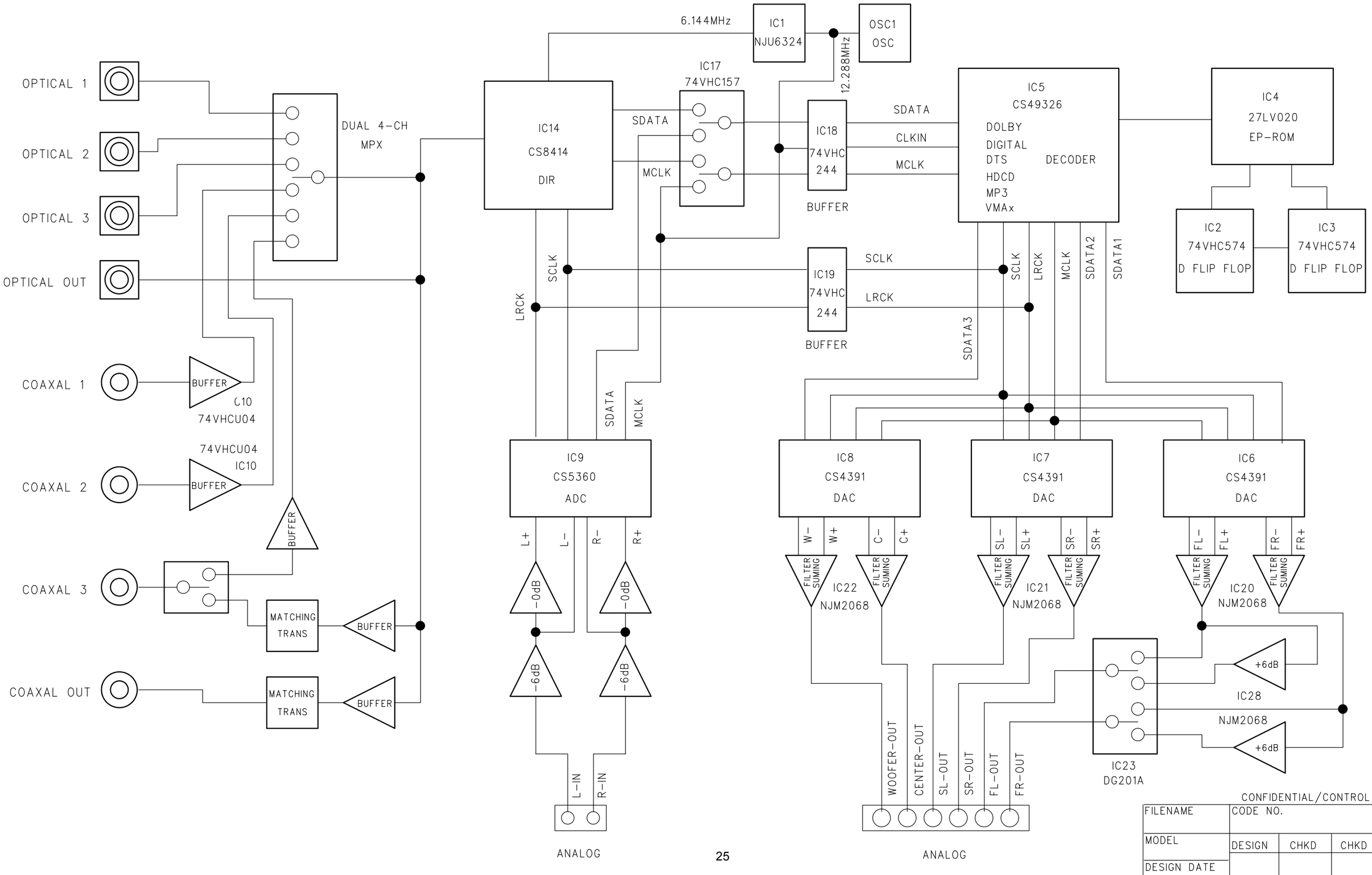
SUB WOOFER OUT

CONFIDENTIAL/CONTROL COPY

FILENAME	CODE NO.			SHEET
BLOCK				1 / 2
MODEL AVR SERIES		CHKD	·	APPROVAL
GN DATE 30.OCT.2000	J.S.AN			

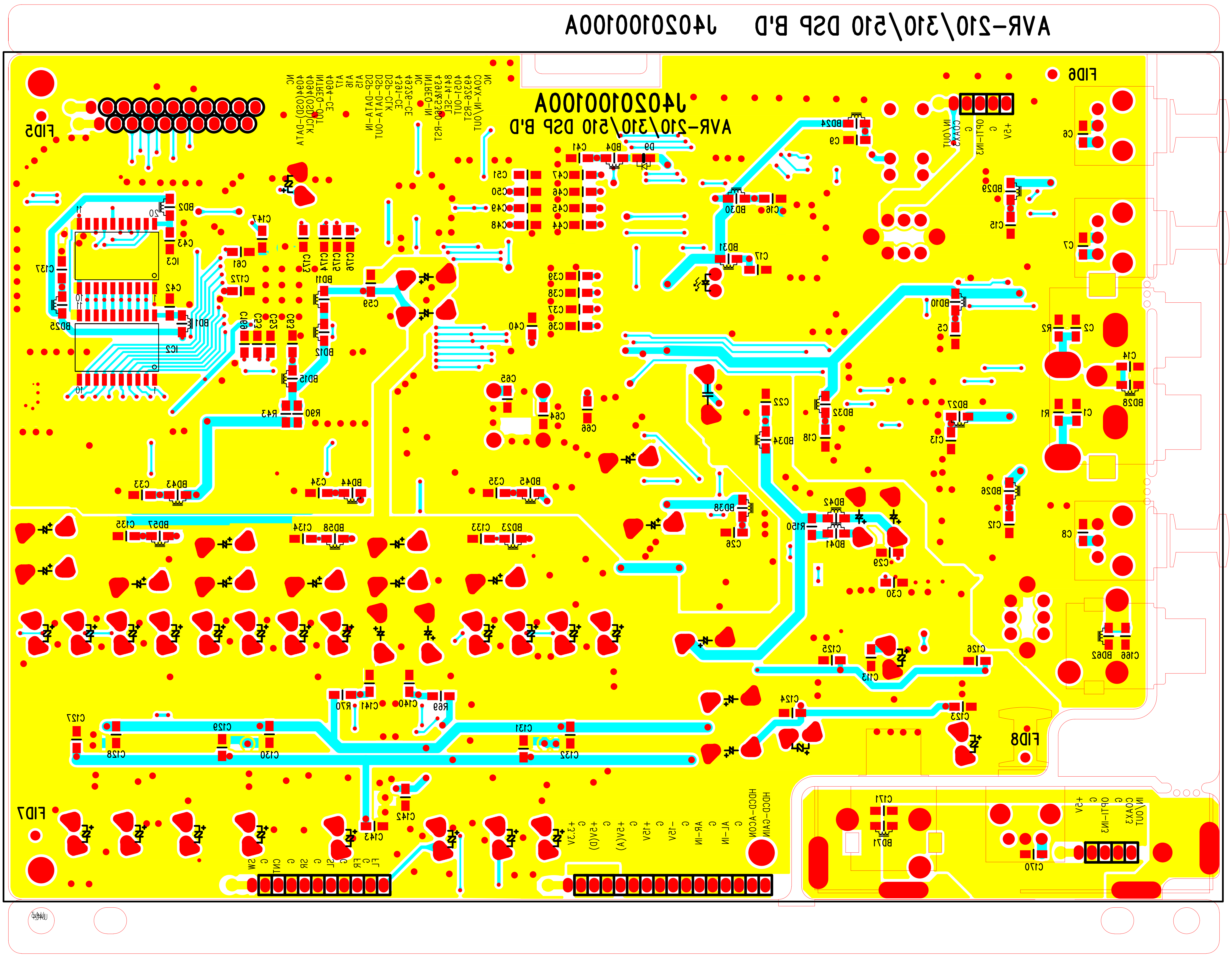
NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS

BLOCK DIAGRAM

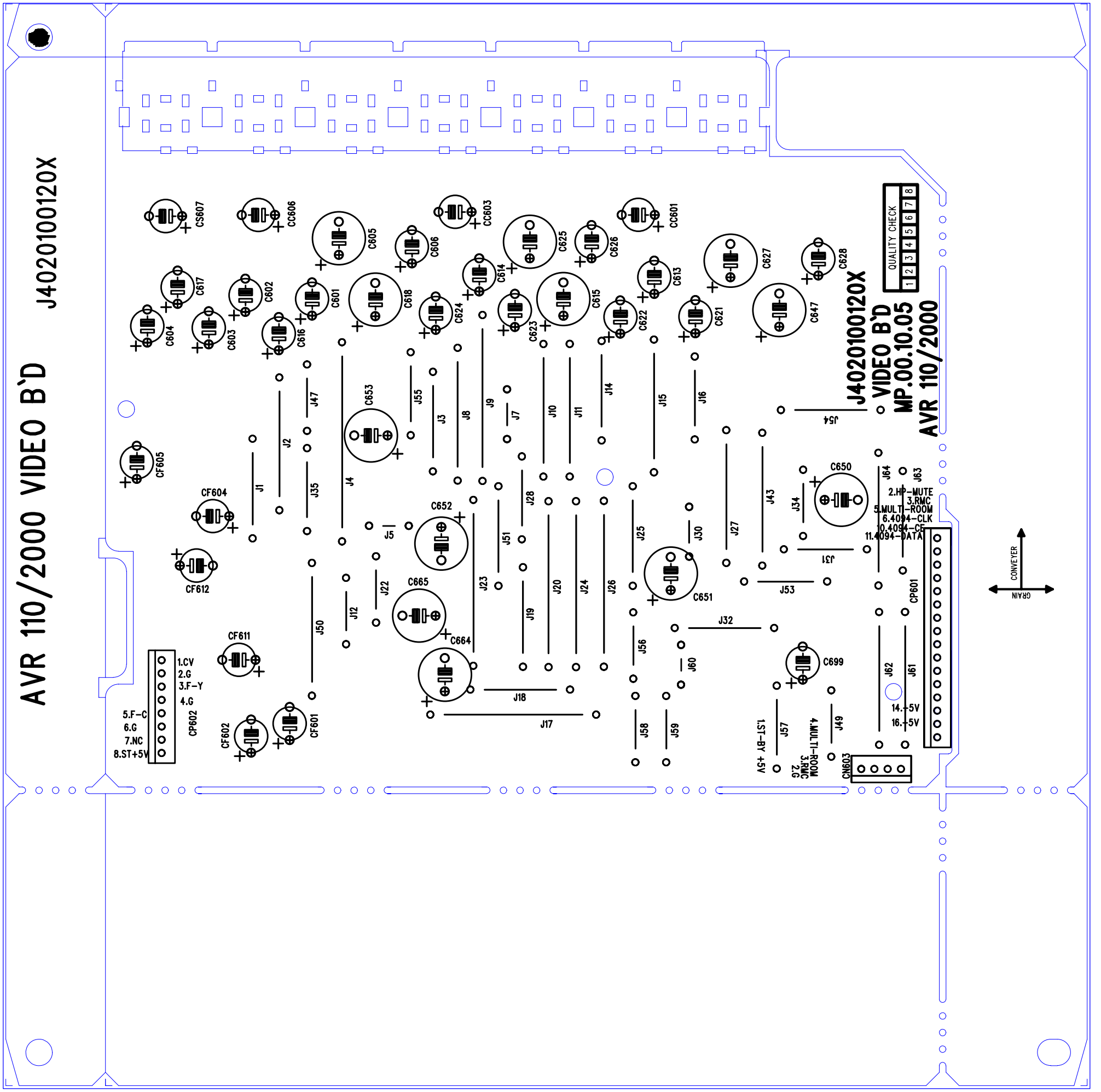


CONFIDENTIAL/CONTROL COPY

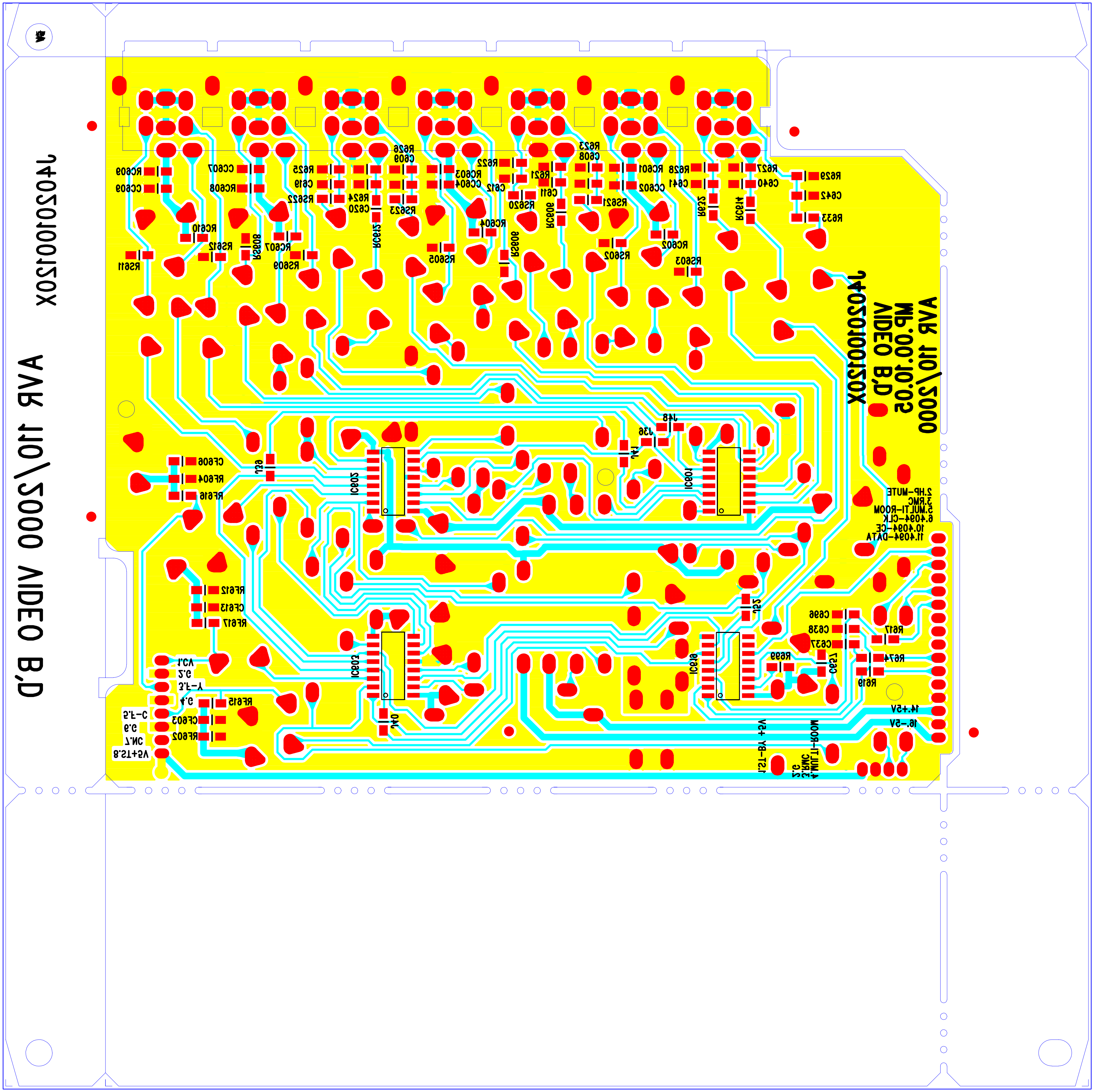
FILENAME	CODE NO.			SHEET
MODEL	DESIGN	CHKD	CHKD	APPROVAL
DESIGN DATE				



FTMS-MP-1.pcb - Tue Feb 13 20:25:16 2001

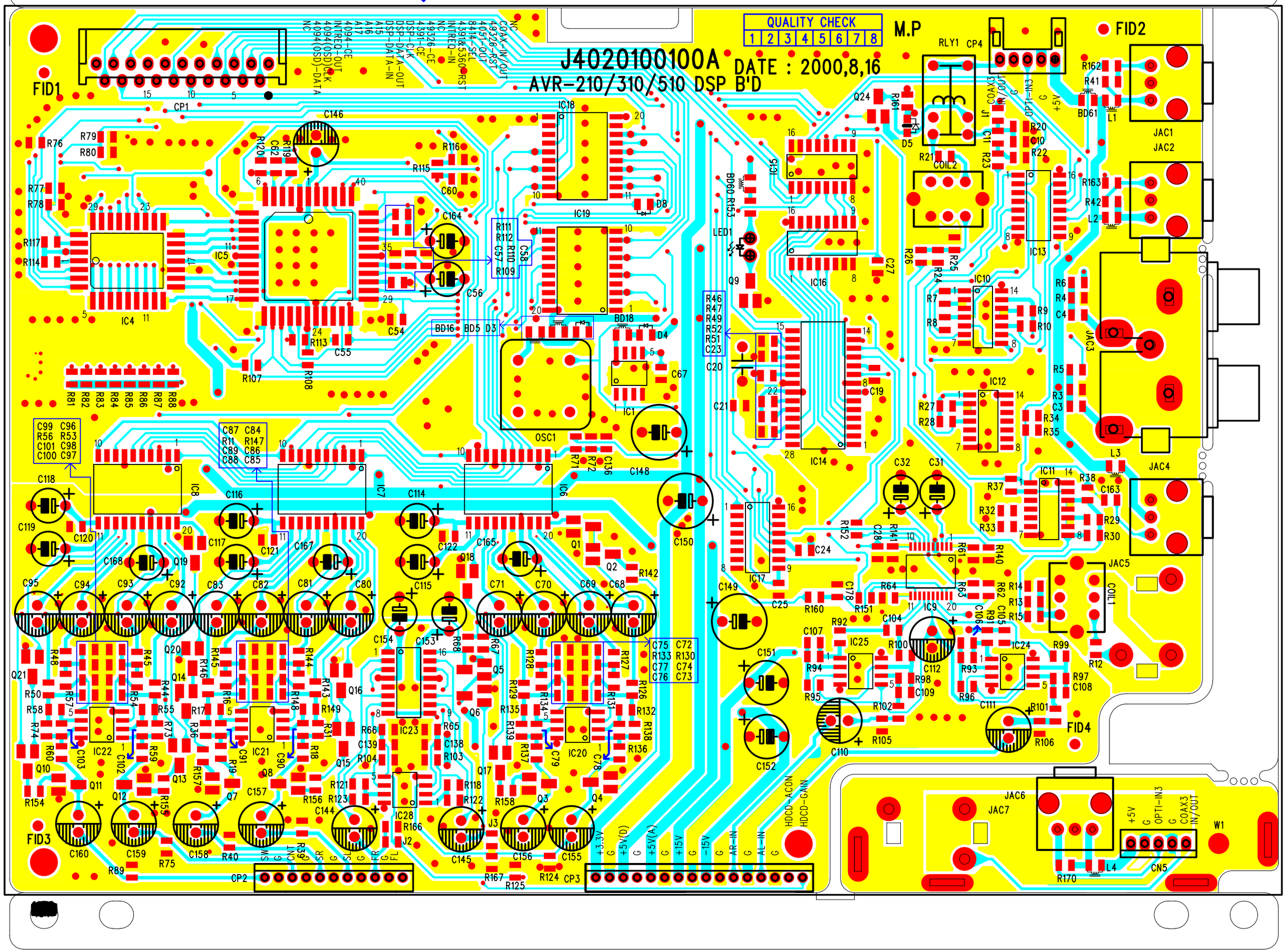


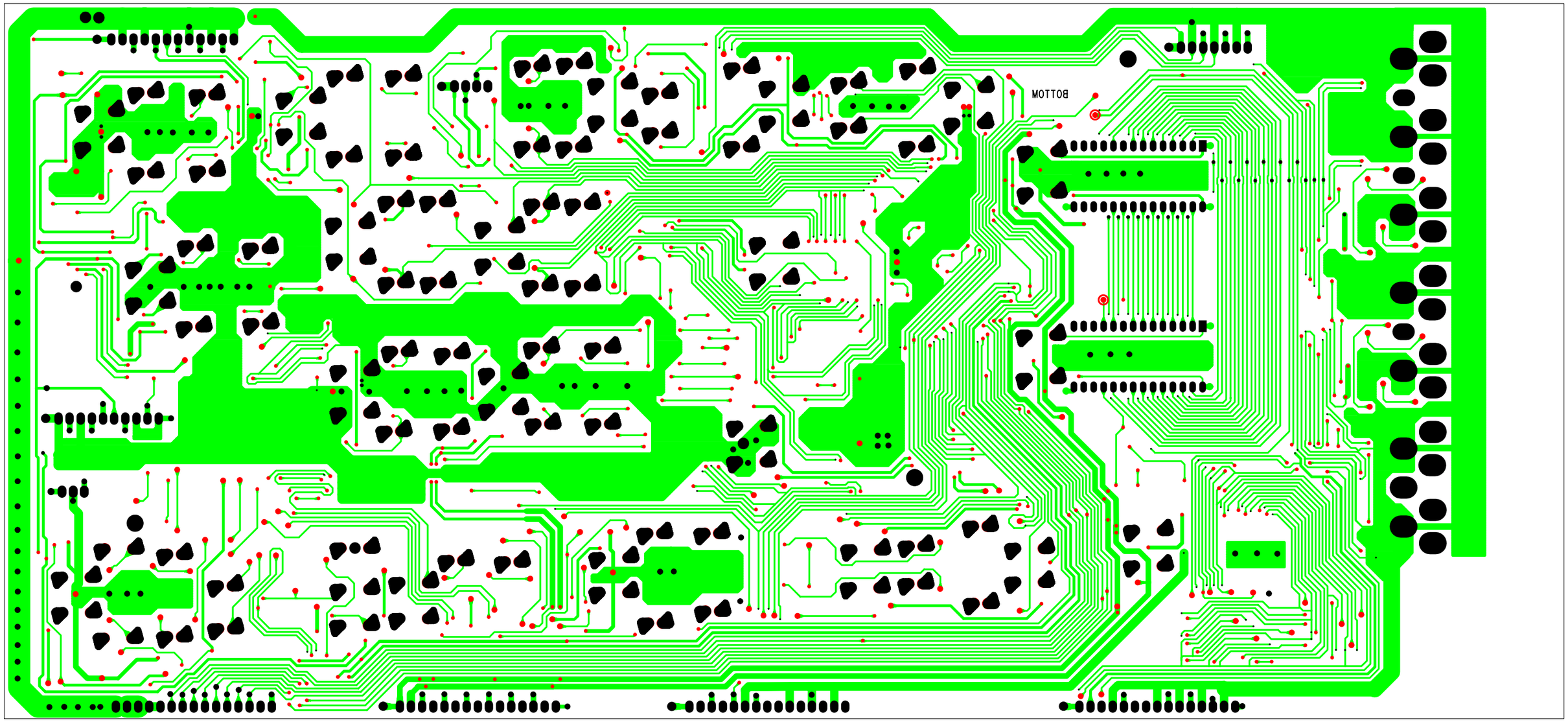
ue Feb 13 21:32:35 2001

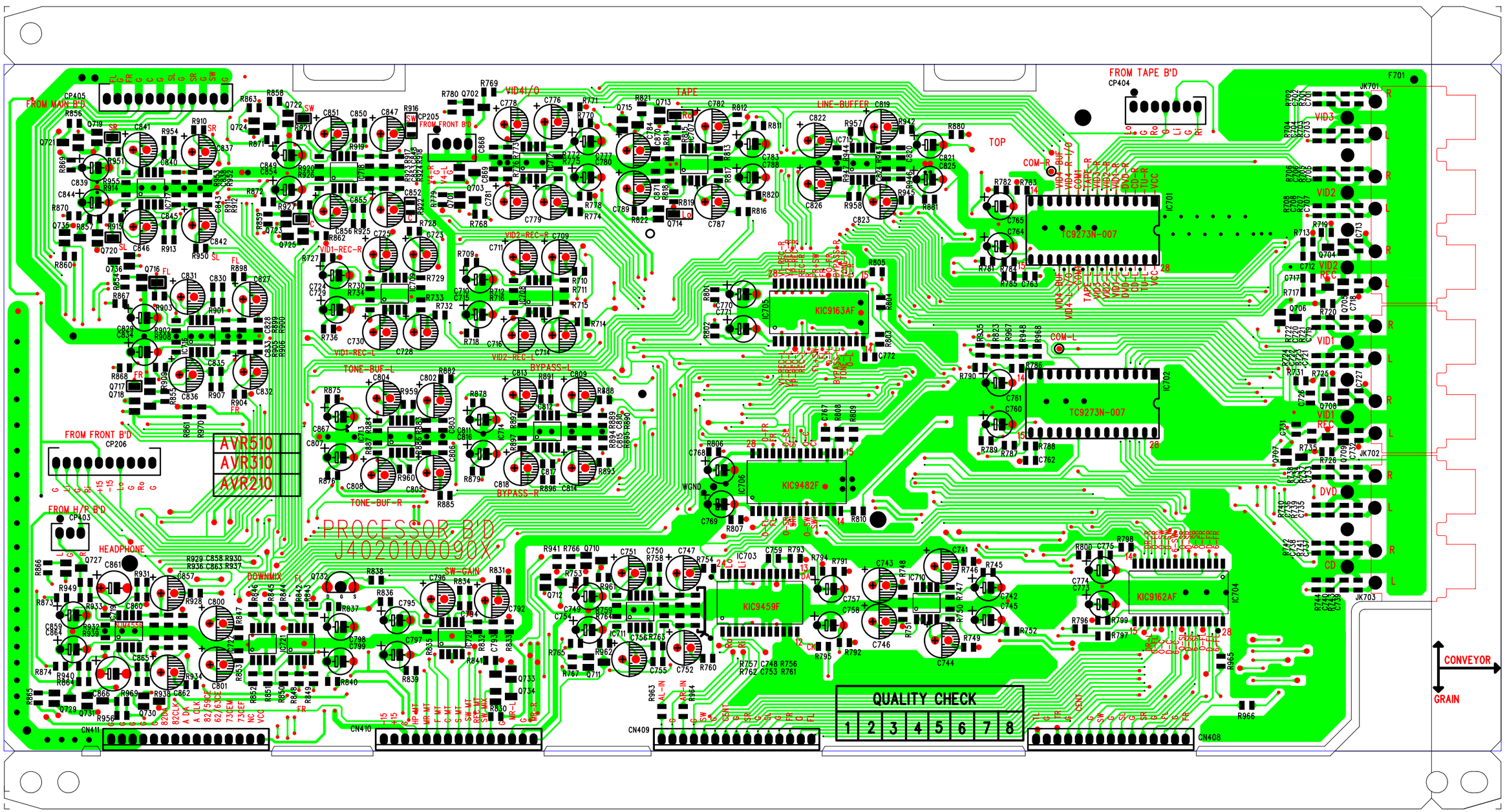


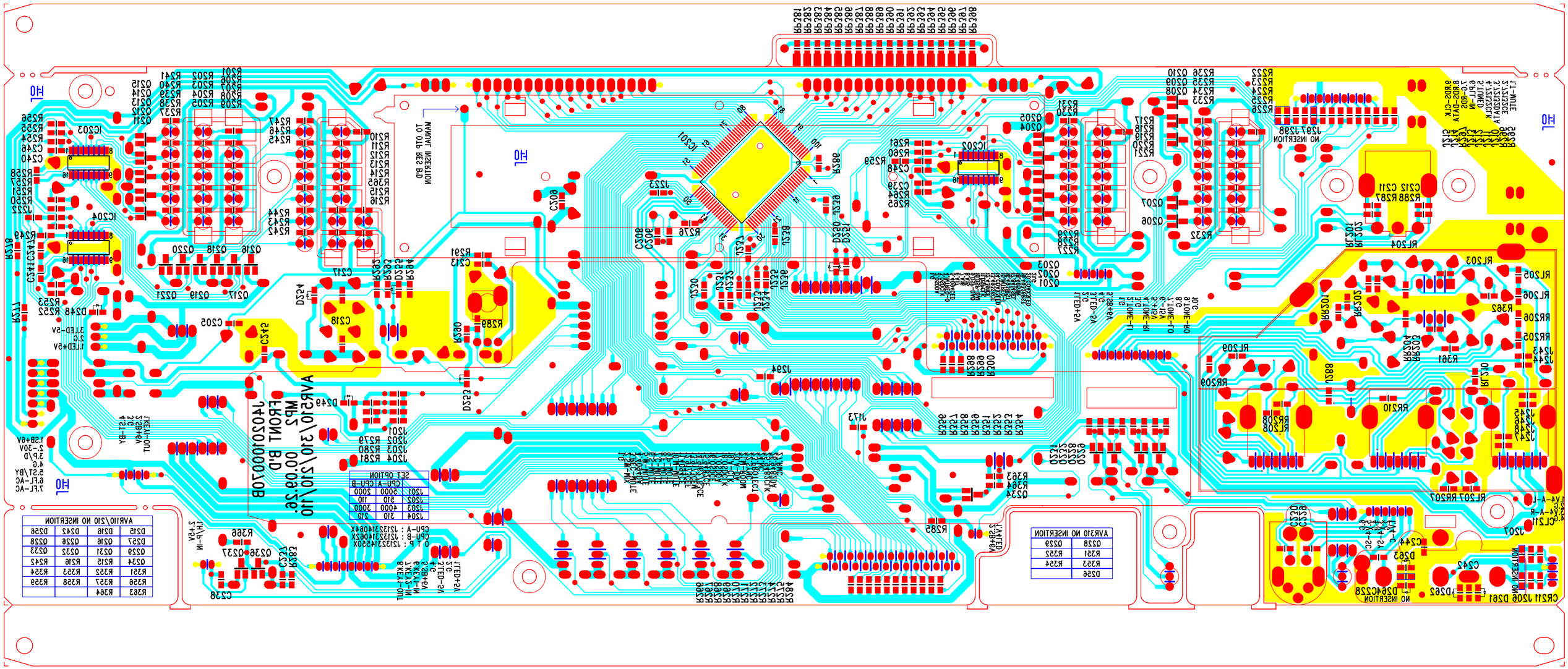
Feb 13 21:35:21 2001

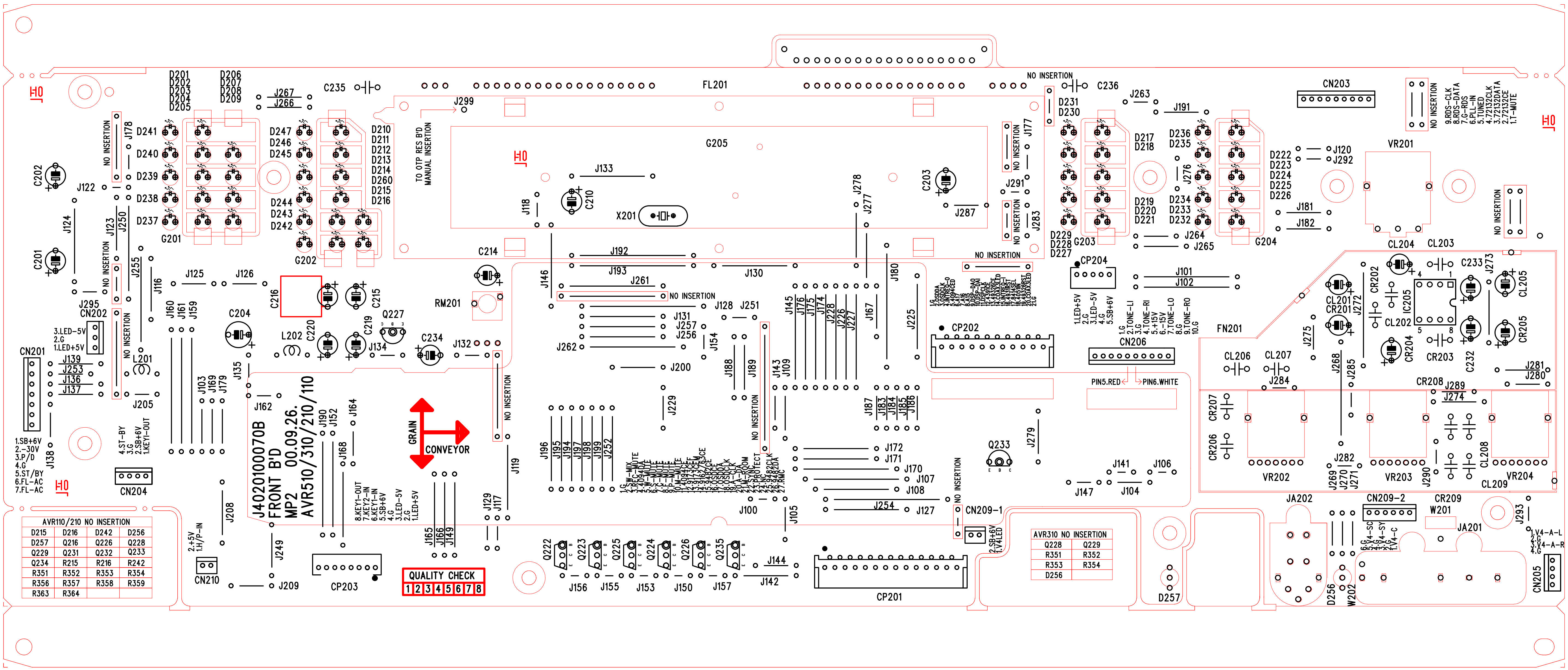
M.P DATE : 2000,8,16 CONVEYER GRAIN J4020100100A AVR-210/310/510 DSP B'D

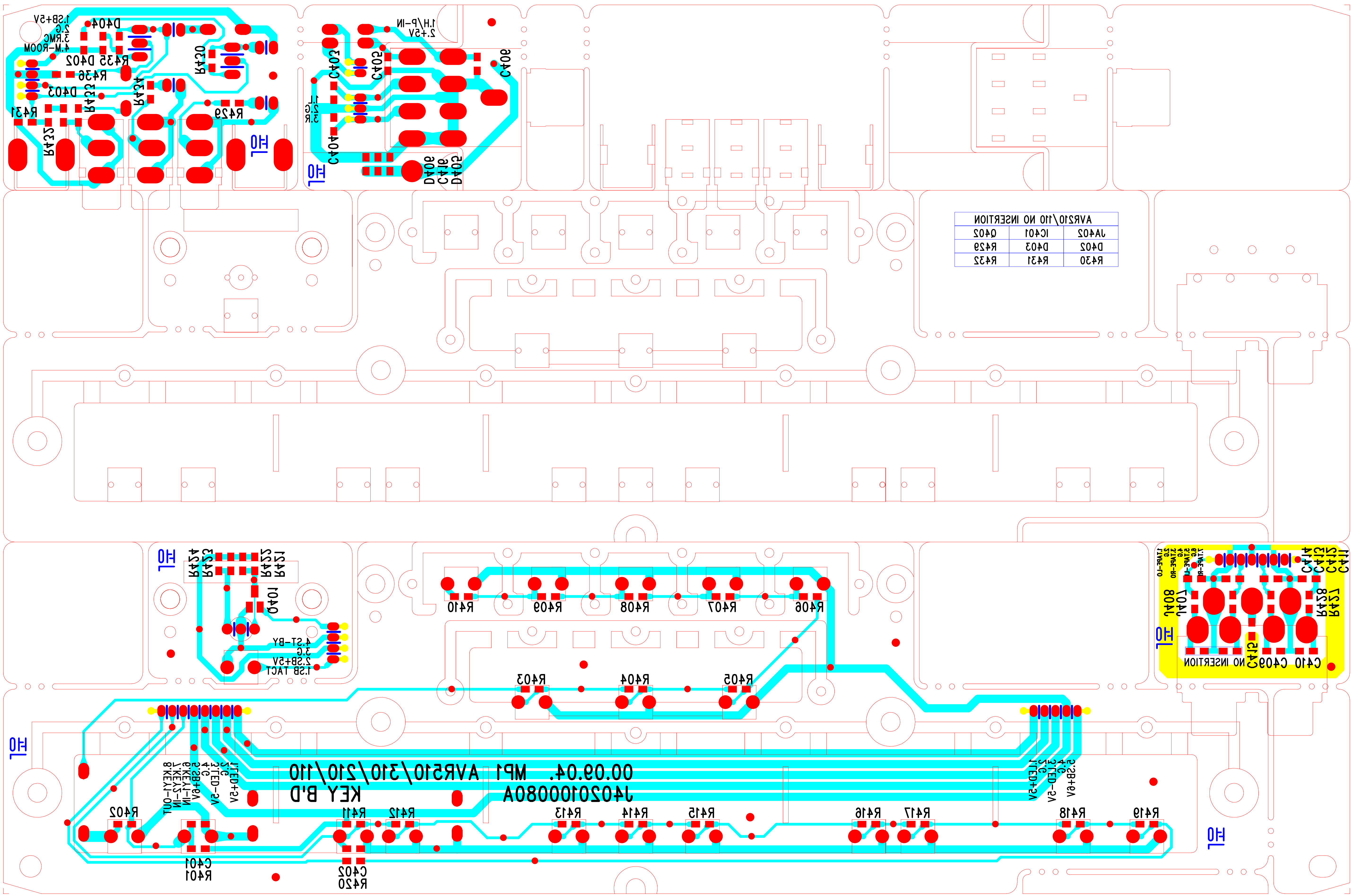



BOTTOM

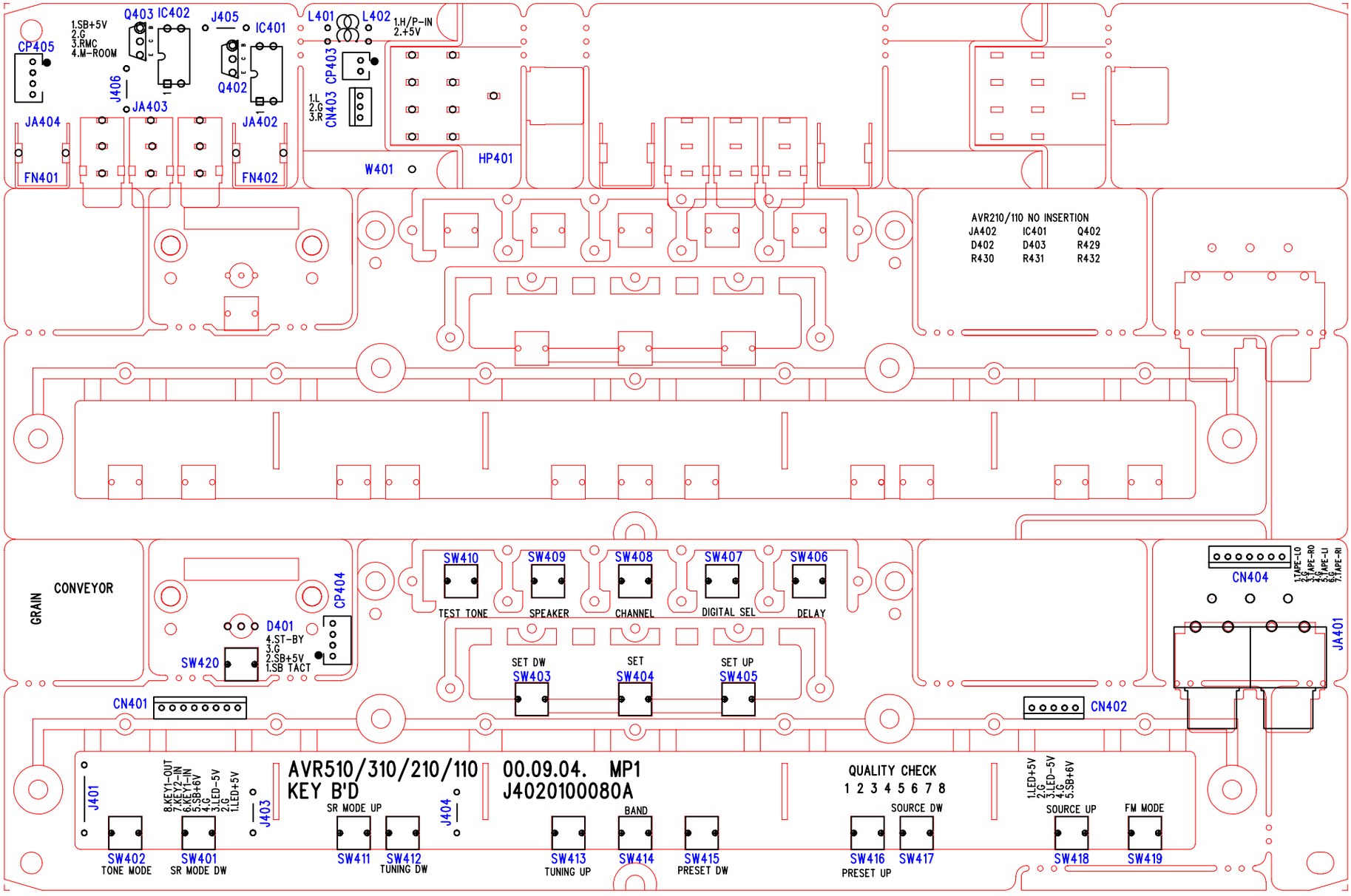

PROCESSOR B'D
J40201000901
FROM MAIN B'D
CP405
FROM FRONT B'D
CP205
FROM TAPE B'D
CP404
FROM FRONT B'D
CP206
FROM H/R B'D
CP103
HEADPHONE
AVR510
AVR310
AVR210
TOP
TAPE
LINE-BUFFER
VID4I/O
VID1-REC-R
VID2-REC-R
VID1-REC-L
VID2-REC-L
TONE-BUF-L
TONE-BUF-R
BYPASS-L
BYPASS-R
SW-GAIN
TC9273N-007
KIC9163AF
KIC9482F
KIC9459F
KIC9162AF
QUALITY CHECK
1 2 3 4 5 6 7 8
CONVEYOR
GRAIN
CN411
CN410
CN409
CN408
JK701
JK702
JK703
F701

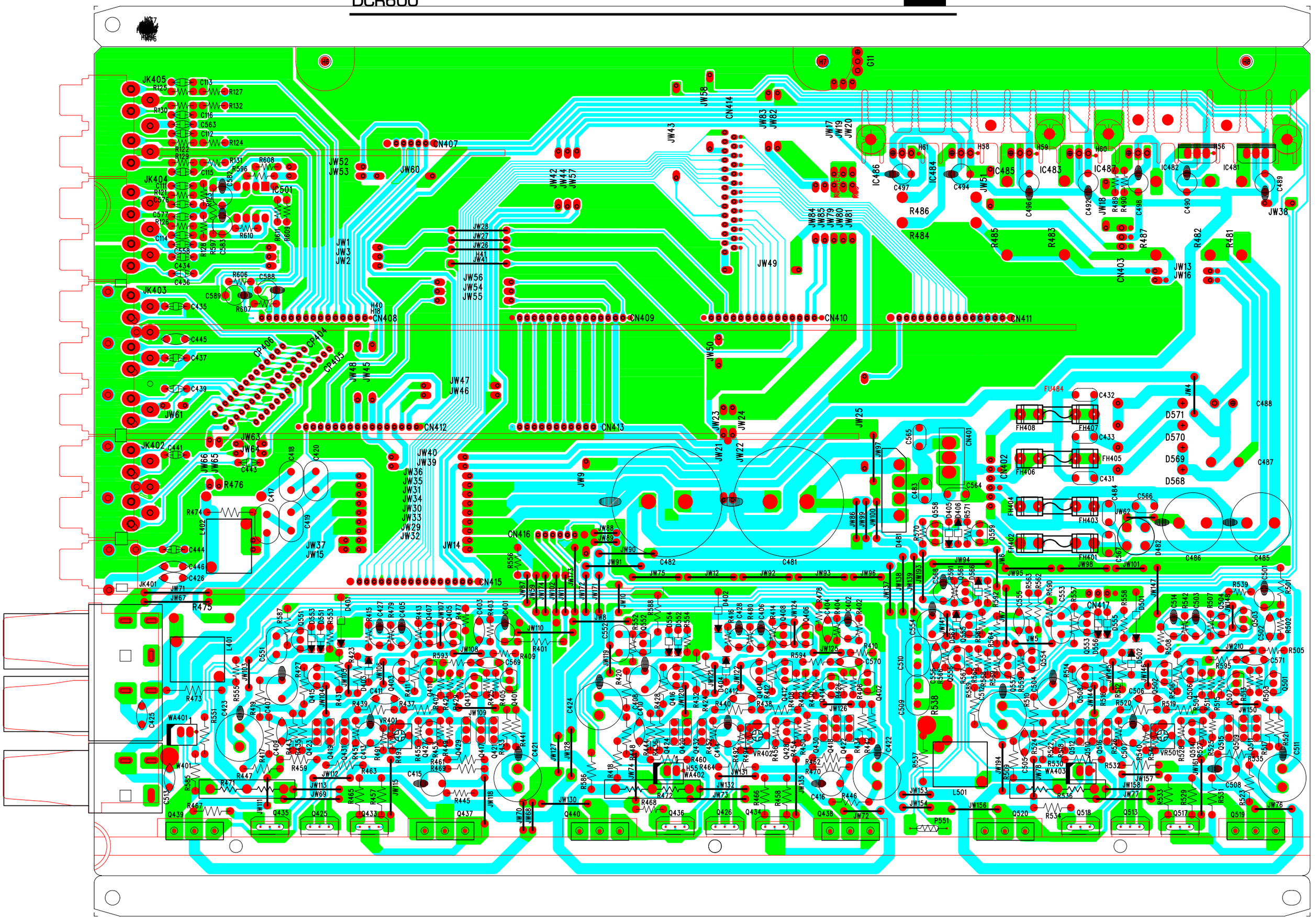

AVR710/Z10 NO INSERTION
D215 D216 D242 D256
D227 D236 D226 D228
D229 D231 D232 D233
D234 R215 R216 R242
R231 R232 R233 R264
R256 R257 R258 R259
R263 R264
SEL OPTION
CPU-A CPU-B
J207 3000 2000
J205 510 110
J203 4000 3000
J204 310 210
AVR710 NO INSERTION
D228 D229
R231 R232
R233 R264
D256
J207 J208
J205 J206
J203 J204
J201 J202
J204 R281
J203 R280
J202 R279
J201 R278
J264
J265
J273
J274
J275
J276
J277
J278
J279
J280
J281
J282
J283
J284
J285
J286
J287
J288
J289
J290
J291
J292
J293
J294
J295
J296
J297
J298
J299
J300
J301
J302
J303
J304
J305
J306
J307
J308
J309
J310
J311
J312

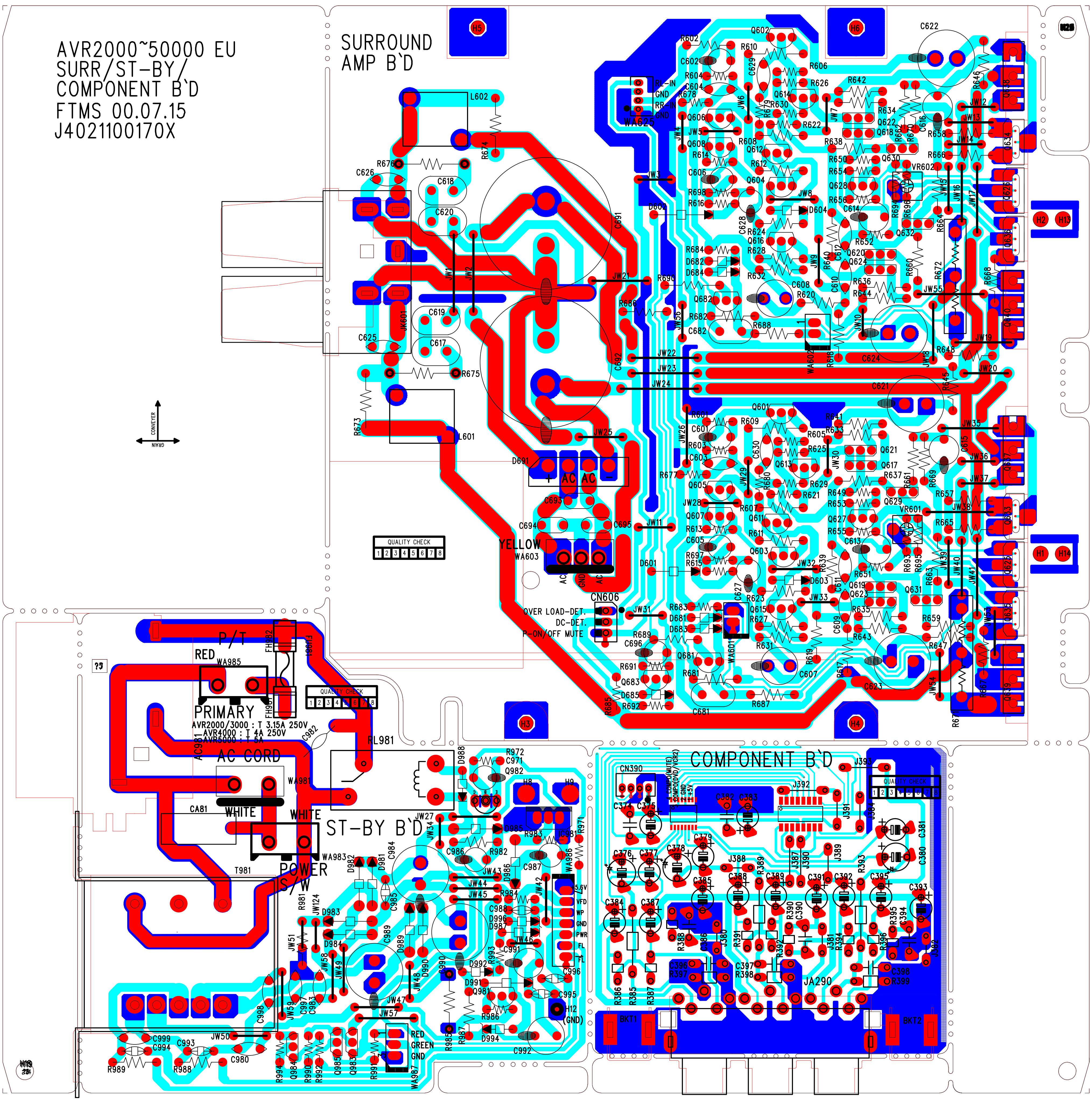

J402010070B
FRONT B'D
MP2 00.09.26.
AVR510/310/210/110
GRAIN
CONVEYOR
QUALITY CHECK
1 2 3 4 5 6 7 8
FL201
G205
G201
G202
G203
G204
X201
CN201
CN202
CN203
CN204
CN205
CN206
CN209
CN209-1
CN210
CP201
CP202
CP203
CP204
VR201
VR202
VR203
VR204
JA201
JA202
FN201
RM201
TO OTP RES B'D MANUAL INSERTION
NO INSERTION
PIN5.RED
PIN6.WHITE
AVR110/210 NO INSERTION
D215 D216 D242 D256
D257 Q216 Q226 Q228
Q229 Q231 Q232 Q233
Q234 R215 R216 R242
R351 R352 R353 R354
R356 R357 R358 R359
R363 R364
AVR310 NO INSERTION
Q228 Q229
R351 R352
R353 R354
D256



K-MPöÃ1.pcb - Tue Feb 13 21:17:15 2001


CP405
1.SB+5V
2.G
3.RMC
4.M-ROOM
Q403 IC402
J405
IC401
J406
Q402
JA403
JA404
JA402
FN401
FN402
L401
L402
1.H/P-IN
2.+5V
CP403
CN403
1.L
2.G
3.R
W401
HP401
AVR210/110 NO INSERTION
JA402 IC401 Q402
D402 D403 R429
R430 R431 R432
GRAIN
CONVEYOR
CP404
D401
4.ST-BY
3.G
2.SB+5V
1.SB TACT
SW420
SW410
SW409
SW408
SW407
SW406
TEST TONE
SPEAKER
CHANNEL
DIGITAL SEL
DELAY
SET DW
SW403
SET
SW404
SET UP
SW405
CN404
JA401
CN401
CN402
J401
8.KEY1-OUT
7.KEY2-IN
6.+5VSB+6V
4.G
3.LED-5V
2.G
1.LED+5V
J403
AVR510/310/210/110
KEY B'D
00.09.04. MP1
J4020100080A
SR MODE UP
J404
QUALITY CHECK
1 2 3 4 5 6 7 8
BAND
SOURCE DW
SOURCE UP
FM MODE
1.LED+5V
2.G
3.LED-5V
4.G
5.SB+6V
SW402
TONE MODE
SW401
SR MODE DW
SW411
SW412
TUNING DW
SW413
TUNING UP
SW414
SW415
PRESET DW
SW416
PRESET UP
SW417
SW418
SW419


JK405
JK404
JK403
JK402
JK401
IC501
CN407
CN408
CN409
CN410
CN411
CN412
CN413
CN414
CN415
CN416
CN417
CN403
IC481
IC482
IC483
IC484
IC485
IC486
IC487
R476
R475
R486
R484
R485
R483
R482
R481
D571
D570
D569
D568
FH408
FH407
FH406
FH405
FH404
FH403
FH402
FH401
WA401
WA402
WA403
VR401
VR402
VR501
P551
L401
L402
L501
Q439
Q435
Q425
Q433
Q437
Q440
Q436
Q426
Q434
Q438
Q520
Q518
Q513
Q517
Q519


AVR2000~50000 EU
SURR/ST-BY/
COMPONENT B'D
FTMS 00.07.15
J4021100170X
SURROUND
AMP B'D
P/T
RED
PRIMARY
AVR2000/3000 : T 3.15A 250V
AC CORD
WHITE
ST-BY B'D
POWER
S/W
COMPONENT B'D
YELLOW
OVER LOAD-DET.
DC-DET.
P-ON/OFF MUTE
QUALITY CHECK

DCR600 Mechanical Parts List

PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
J6171140010X	WIRE TIE NYLON6	1.000	PC
J4099100170X	MODULE US KST-M9011MA	1.000	PC
J85000027000	PANEL FRONT DCR600	1.000	PC
J85100030000	KNOB MAIN DCR600	1.000	PC
J85100031000	KNOB TONE DCR600	1.000	PC
J85200139100	BTN 1KEY DCR600	1.000	PC
J85200139200	BTN 2KEY L DCR600	1.000	PC
J85200139210	BTN 2KEY R DCR600	1.000	PC
J85200139500	BUTTON 5KEY DCR600	1.000	PC
J85200139700	BUTTON 7KEY DCR600	1.000	PC
J85300031000	WINDOW DCR600	1.000	PC
J85500010000	FILTER DISPLAY DCR600	1.000	PC
J46205000001	SW PUSH, POWER, SDDLB15700 (TV5)	1.000	PC
J4305100061X	CNT ASSY 2P 500MM 16#	1.000	PC
J85200140000	BUTTON POWER DCR600	1.000	PC
J85200141000	BUTTON STANDBY DCR600	1.000	PC
J85400053000	INDICATOR STANDBY DCR600	1.000	PC
J60300002000	BRACKET HEADPHONE	1.000	PC
J60100008000	COVER TOP	1.000	PC
J60000010000	CHASSIS MAIN	1.000	PC
J60120501100	COVER-BOTTOM	1.000	PC
J5636140220X	SCREW	1.000	PC
J60120502000	TRANS-BOTTOM	1.000	PC
J85900501100	FOOT-ASS'Y DCR600	1.000	PC
J85900503000	FOOT-RUBBER	1.000	PC
J60200012000	FRAME-GUIDE SECC T1.0	1.000	PC
J60300501000	BRKT-PCB	1.000	PC
J5214004010X	BRKT MAIN H/S AVR210	1.000	PC
J97200503000	CUSHION-BRK'T EVA	1.000	PC
J60020003200	CH FRONT SECC 1.0T	1.000	PC
J60500014000	HEATSINK MAIN AVR210	1.000	PC
J60500015000	HEATSINK SURROUND	1.000	PC
J5541001010X	WASHER SPRING	1.000	PC
J5541001020X	WASHER FLAT	1.000	PC
J2802210064X*	POWER TRANS 120/60 DCR600	1.000	PC
J43730100100*	CORD POWER UL SPT2	1.000	PC
J5541001030X	WASHER SPRING	1.000	PC
J5541001040X	WASHERPLAT INNER	1.000	PC
J60110009800	PANEL REAR DCR600	1.000	PC
J65100000100	BUSHING-AC CORD	1.000	PC
J97200501000	PCB SPONGE	1.000	PC
J97200502000	CUSHION(A)EVA	1.000	PC
J5636140010X	SCREW	1.000	PC
J5636140040X	SCREW	1.000	PC
J5636130080X	SCREW	1.000	PC
JAVR7000SCRW	SCREW 3X12PT	1.000	PC
J5636140080X	SCREW A124008000	1.000	PC
J90720301080	SCREW 3*10 TEETH	1.000	PC
J5636140150X	SCREW	1.000	PC
20290110XX	LUBRICANT HYCHEM/TC 609	0.0006	KG
J5451003020Y	CUSHION	1.000	PC
J85810009000	FL GUIDE HIPS94HB	1.000	PC
J65540000500	PLLATE SPRING	1.000	PC
20372500XX	WASHER 3.0MM 7.9MM 0.8MM N/A 00 0	1.000	PC
20634190XX	FELT BK 30.0MM X25.0X0.8MM	1.000	PC

DCR600 Electrical Parts List

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
DCR600 MAIN PCB				
Capacitors				
C421	13076940AM	CE 470U0F +20% 63.0V 85C	1.000	PC
C422	13076940AM	CE 470U0F +20% 63.0V 85C	1.000	PC
C423	13076940AM	CE 470U0F +20% 63.0V 85C	1.000	PC
C424	13076940AM	CE 470U0F +20% 63.0V 85C	1.000	PC
C481	J3420468266X	CE 6800UF 63V	1.000	PC
C482	J3420468266X	CE 6800UF 63V	1.000	PC
C485	J3470122261X	CE 2200UP 35V	1.000	PC
C486	J3470122261X	CE 2200UP 35V	1.000	PC
C487	J3420668236X	CE SHL 6800U 16V M	1.000	PC
C488	J3470122231X	CE 2200UF 16V	1.000	PC
C511	13076940AM	CE 470U0F +20% 63.0V 85C	1.000	PC
C512	13076940AM	CE 470U0F +20% 63.0V 85C	1.000	PC
C401	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C402	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C403	1105530071	CC 68P0F +5% -5% 50.0V NP0	1.000	PC
C404	1105530071	CC 68P0F +5% -5% 50.0V NP0	1.000	PC
C405	2026907030	CE 100U0F +20% 25.0V 85C	1.000	PC
C406	2026907030	CE 100U0F +20% 25.0V 85C	1.000	PC
C407	2026908030	CE 220U0F +20% 10.0V 85C	1.000	PC
C408	2026908030	CE 220U0F +20% 10.0V 85C	1.000	PC
C409	3093607071	CC 12P0F +5% -5% 50.0V NP0	1.000	PC
C410	3093607071	CC 12P0F +5% -5% 50.0V NP0	1.000	PC
C411	6043915071	CC 33P0F +5% -5% 50.0V NP0	1.000	PC
C412	6043915071	CC 33P0F +5% -5% 50.0V NP0	1.000	PC
C413	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C414	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C415	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C416	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C417	J3640104320X	CP MET .1U 63V -K	1.000	PC
C418	J3640104320X	CP MET .1U 63V -K	1.000	PC
C419	J3640104320X	CP MET .1U 63V -K	1.000	PC
C420	J3640104320X	CP MET .1U 63V -K	1.000	PC
C431	J3600473330X	CP .047U 100V K	1.000	PC
C432	J3600473330X	CP .047U 100V K	1.000	PC
C433	J3600473330X	CP .047U 100V K	1.000	PC
C483	J3640104350X	CP MET .1U 250V -M	1.000	PC
C484	J3600473330X	CP .047U 100V K	1.000	PC
C489	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C490	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C492	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C494	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C496	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C497	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C498	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C501	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C502	1105530071	CC 68P0F +5% -5% 50.0V NP0	1.000	PC
C503	2026907030	CE 100U0F +20% 25.0V 85C	1.000	PC
C504	2026908030	CE 220U0F +20% 10.0V 85C	1.000	PC
C505	3093607071	CC 12P0F +5% -5% 50.0V NP0	1.000	PC
C506	6043915071	CC 33P0F +5% -5% 50.0V NP0	1.000	PC
C507	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C508	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C509	J3640104320X	CP MET .1U 63V -K	1.000	PC
C510	J3640104320X	CP MET .1U 63V -K	1.000	PC
C551	J3640683220X	CMP 0.068U 63V J	1.000	PC
C552	J3640683220X	CMP 0.068U 63V J	1.000	PC
C553	J3640683220X	CMP 0.068U 63V J	1.000	PC
C554	J3470147121X	CE SG 470U 10V M	1.000	PC
C555	7042852071	CC 10N0F +10% -10% 50.0V Y5P	1.000	PC
C556	7042852071	CC 10N0F +10% -10% 50.0V Y5P	1.000	PC
C564	J3640104350X	CP MET .1U 250V -M	1.000	PC
C565	J3640104350X	CP MET .1U 250V -M	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
C566	J3600473330X	CP .047U 100V K	1.000	PC
C567	J3600473330X	CP .047U 100V K	1.000	PC
C568	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
C569	4043358071	CC 680P0F +10% -10% 50.0V Y5P	1.000	PC
C570	4043358071	CC 680P0F +10% -10% 50.0V Y5P	1.000	PC
C571	4043358071	CC 680P0F +10% -10% 50.0V Y5P	1.000	PC
Semiconductors				
D481	J2202306007X	DIODE BU8-04F	1.000	PC
D482	J2203336007X	DIODE W2-04F	1.000	PC
D568	J2221244000X	DIODE RECT 1N5402S	1.000	PC
D569	J2221244000X	DIODE RECT 1N5402S	1.000	PC
D570	J2221244000X	DIODE RECT 1N5402S	1.000	PC
D571	J2221244000X	DIODE RECT 1N5402S	1.000	PC
IC481	J2112505021X	IC 7815PI TO-220IS	1.000	PC
IC482	J2112505018X	IC KIA7915PI TO220	1.000	PC
IC483	J2112504001X	IC BA033T	1.000	PC
IC484	J2112505019X	IC KIA7805PI TO220	1.000	PC
IC485	J2112505019X	IC KIA7805PI TO220	1.000	PC
IC486	J2112505014X	IC KIA7905PI	1.000	PC
IC487	J2112503001X	IC REG ADJ KA33 TO-220 SASUNG	1.000	PC
Q425	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q426	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q433	J2021500102X	TR PNP 2SA1859A	1.000	PC
Q434	J2021500102X	TR PNP 2SA1859A	1.000	PC
Q435	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q436	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q437	J2002520203X	TR NPN 2SC5198-R(100W) TOSHIBA	1.000	PC
Q438	J2002520203X	TR NPN 2SC5198-R(100W) TOSHIBA	1.000	PC
Q439	J2002500203X	TR PNP 2SA1941-R(100W) TOSHIBA	1.000	PC
Q440	J2002500203X	TR PNP 2SA1941-R(100W) TOSHIBA	1.000	PC
Q513	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q517	J2021500102X	TR PNP 2SA1859A	1.000	PC
Q518	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q519	J2002520203X	TR NPN 2SC5198-R(100W) TOSHIBA	1.000	PC
Q520	J2002500203X	TR PNP 2SA1941-R(100W) TOSHIBA	1.000	PC
D401	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D402	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D403	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D404	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D405	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D406	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D501	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D502	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D551	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D552	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D553	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D554	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D555	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D556	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D566	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D567	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
Q401	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q402	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q403	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q404	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q405	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q406	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q407	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q408	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q411	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q412	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q413	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q414	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q415	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q416	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q417	J2021000101X	TR PNP KTA1024	1.000	PC
Q418	J2021000101X	TR PNP KTA1024	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
Q419	J2021020501X	TR NPN KTC3206	1.000	PC
Q420	J2021020501X	TR NPN KTC3206	1.000	PC
Q421	J2021000101X	TR PNP KTA1024	1.000	PC
Q422	J2021000101X	TR PNP KTA1024	1.000	PC
Q423	J2021020501X	TR NPN KTC3206	1.000	PC
Q424	J2021020501X	TR NPN KTC3206	1.000	PC
Q427	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q428	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q429	J2021020501X	TR NPN KTC3206	1.000	PC
Q430	J2021020501X	TR NPN KTC3206	1.000	PC
Q431	J2021000101X	TR PNP KTA1024	1.000	PC
Q432	J2021000101X	TR PNP KTA1024	1.000	PC
Q501	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q502	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q503	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q504	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q506	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q507	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q508	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q509	J2021000101X	TR PNP KTA1024	1.000	PC
Q510	J2021020501X	TR NPN KTC3206	1.000	PC
Q511	J2021000101X	TR PNP KTA1024	1.000	PC
Q512	J2021020501X	TR NPN KTC3206	1.000	PC
Q514	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q515	J2021020501X	TR NPN KTC3206	1.000	PC
Q516	J2021000101X	TR PNP KTA1024	1.000	PC
Q551	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q552	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q553	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q554	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q555	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q556	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q557	J2021000201X	TR PNP KTA1266 Y	1.000	PC
Q558	J2021000101X	TR PNP KTA1024	1.000	PC
Q559	J2021220001X	TR NPN KRC107M	1.000	PC
Q561	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Resistors				
R401	6044155016	RCF 330R0 OHM +5% 250MI0W	1.000	PC
R402	6044155016	RCF 330R0 OHM +5% 250MI0W	1.000	PC
R403	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R404	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R405	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R406	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R407	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R408	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R409	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R410	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R411	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R412	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R413	1105961016	RCF 270R0 OHM +5% 250MI0W	1.000	PC
R414	1105961016	RCF 270R0 OHM +5% 250MI0W	1.000	PC
R415	2046951016	RCF 43K0 OHM +5% 250MI0W	1.000	PC
R416	2046951016	RCF 43K0 OHM +5% 250MI0W	1.000	PC
R417	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R418	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R419	8043701016	RCF 1K8 OHM +5% 250MI0W	1.000	PC
R420	8043701016	RCF 1K8 OHM +5% 250MI0W	1.000	PC
R421	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R422	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R423	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R424	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R425	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R426	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R427	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R428	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R429	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R430	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R431	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R432	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R433	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R434	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R435	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R436	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R437	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R438	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R439	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R440	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R441	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R442	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R443	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R444	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R445	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R446	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R447	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R448	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R449	1105964016	RCF 1K0 OHM +5% 250MI0W	1.000	PC
R450	1105964016	RCF 1K0 OHM +5% 250MI0W	1.000	PC
R451	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R452	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R453	4043564016	RCF 4K7 OHM +5% 250MI0W	1.000	PC
R454	4043564016	RCF 4K7 OHM +5% 250MI0W	1.000	PC
R455	7043056016	RCF 5K6 OHM +5% 250MI0W	1.000	PC
R456	7043056016	RCF 5K6 OHM +5% 250MI0W	1.000	PC
R457	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R458	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R459	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R460	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R461	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R462	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R463	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R464	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R465	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R466	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R467	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R468	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R469	1105959016	RCF 82R0 OHM +5% 250MI0W	1.000	PC
R470	1105959016	RCF 82R0 OHM +5% 250MI0W	1.000	PC
R473	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R474	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R477	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R478	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R489	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R490	1105963016	RCF 680R0 OHM +5% 250MI0W	1.000	PC
R501	6044155016	RCF 330R0 OHM +5% 250MI0W	1.000	PC
R502	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R503	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R504	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R505	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R506	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R507	1105961016	RCF 270R0 OHM +5% 250MI0W	1.000	PC
R508	2046951016	RCF 43K0 OHM +5% 250MI0W	1.000	PC
R509	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R510	8043701016	RCF 1K8 OHM +5% 250MI0W	1.000	PC
R511	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R512	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R513	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R514	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R515	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R516	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R517	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R518	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R519	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R520	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R521	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R522	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R523	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R524	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R525	1105964016	RCF 1K0 OHM +5% 250MI0W	1.000	PC
R526	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R527	4043564016	RCF 4K7 OHM +5% 250MI0W	1.000	PC
R528	7043056016	RCF 5K6 OHM +5% 250MI0W	1.000	PC
R529	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R530	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R531	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R532	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R533	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R534	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R535	1105959016	RCF 82R0 OHM +5% 250MI0W	1.000	PC
R537	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R539	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R551	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R552	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R553	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R554	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R555	6044158016	RCF 22K0 OHM +5% 250MI0W	1.000	PC
R556	6044158016	RCF 22K0 OHM +5% 250MI0W	1.000	PC
R557	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R558	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R559	6044158016	RCF 22K0 OHM +5% 250MI0W	1.000	PC
R561	7043057016	RCF 8K2 OHM +5% 250MI0W	1.000	PC
R562	1105971016	RCF 56K0 OHM +5% 250MI0W	1.000	PC
R563	1105971016	RCF 56K0 OHM +5% 250MI0W	1.000	PC
R564	1105971016	RCF 56K0 OHM +5% 250MI0W	1.000	PC
R565	9057112016	RCF 12K0 OHM +5% 250MI0W	1.000	PC
R566	5088295016	RCF 100R0 OHM +5% 250MI0	1.000	PC
R567	3093948016	RCF 10K0 OHM +5% 250MI0W	1.000	PC
R568	3093948016	RCF 10K0 OHM +5% 250MI0W	1.000	PC
R569	3093948016	RCF 10K0 OHM +5% 250MI0W	1.000	PC
R570	1105961016	RCF 270R0 OHM +5% 250MI0W	1.000	PC
R571	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R585	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R586	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R587	9057113016	RCF 39K0 OHM +5% 250MI0W	1.000	PC
R588	9057113016	RCF 39K0 OHM +5% 250MI0W	1.000	PC
R589	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R590	9057113016	RCF 39K0 OHM +5% 250MI0W	1.000	PC
R591	3093948016	RCF 10K0 OHM +5% 250MI0W	1.000	PC
R592	9057113016	RCF 39K0 OHM +5% 250MI0W	1.000	PC
R593	5088297016	RCF 470R0 OHM +5% 250MI0W	1.000	PC
R594	5088297016	RCF 470R0 OHM +5% 250MI0W	1.000	PC
R595	5088297016	RCF 470R0 OHM +5% 250MI0W	1.000	PC
R471	J3076228421X	RES MPR 0.22 5W J	1.000	PC
R472	J3076228421X	RES MPR 0.22 5W J	1.000	PC
R475	J3010100620X	RES OXIDE 10 1W J	1.000	PC
R476	J3010100620X	RES OXIDE 10 1W J	1.000	PC
R481	J3030100720X	RES 10 OHM 2W J	1.000	PC
R482	J3030100720X	RES 10 OHM 2W J	1.000	PC
R483	J3030100720X	RES 10 OHM 2W J	1.000	PC
R484	J3030479720X	RES 4R7 OHM 2W J	1.000	PC
R485	J3030479720X	RES 4R7 OHM 2W J	1.000	PC
R486	J3030479720X	RES 4R7 OHM 2W J	1.000	PC
R487	J3030339720X	RES OX 3R3 2W J	1.000	PC
R536	J3076228421X	RES MPR 0.22 5W J	1.000	PC
R538	J3010100620X	RES OXIDE 10 1W J	1.000	PC
VR401	J3211310210X	RES SEMI 1K	1.000	PC
VR402	J3211310210X	RES SEMI 1K	1.000	PC
VR501	J3211310210X	RES SEMI 1K	1.000	PC
Miscellaneous				
JK401	J44301000300	JACK RCA 1P BK GND W/CAP	1.000	PC
JK401	J44301001100	JACK RCA 1P BROWN G/CAP	1.000	PC
JP401	J44001600000	TERMINAL SCREW 6P	1.000	PC
L401	J1451000030X	COIL-AF CHOKE .7UH	1.000	PC
L402	J1451000030X	COIL-AF CHOKE .7UH	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
L501	J1451000030X	COIL-AF CHOKE .7UH	1.000	PC
P551	J2431100002X	POSISTOR PTC	1.000	PC
	J60530002100	H/SINK REG 118*20*50H	1.000	PC
CN401	J4420050300X	CNT ST 35313-0310	1.000	PC
CN402	J4420040600X	CNT PLUG 2.5 6P	1.000	PC
CN403	J4420040300X	CNT PLUG 2.5 3P	1.000	PC
CN407	J4423230500X	CNT 2.0MM 35336-0510 PLUG BD'BD	1.000	PC
CN408	J4423231500X	CNT 2.0 35336-1510	1.000	PC
CN409	J4423231500X	CNT 2.0 35336-1510	1.000	PC
CN410	J4423231500X	CNT 2.0 35336-1510	1.000	PC
CN411	J4423231500X	CNT 2.0 35336-1510	1.000	PC
CN412	J4423231600X	CONNECTOR	1.000	PC
CN413	J4423231100X	CONNECTOR	1.000	PC
CN414	J4422112740X	FPC PLUG 27P 1.25	1.000	PC
CN415	J4423231600X	CONNECTOR	1.000	PC
CN416	J4420030640X	CNT PLUG 2.0 6P ST	1.000	PC
CN417	J4420040300X	CNT PLUG 2.5 3P	1.000	PC
CP404	J4305100067X	CNT ASSY12P 390MM SL 2.0MM #28	1.000	PC
CP406	J4305100069X	CNT ASSY 10P 390+520 #28	1.000	PC
FU481	J5502220320X	FUSE 2A/125V	1.000	PC
FU482	J5502220320X	FUSE 2A/125V	1.000	PC
FU483	J5502220320X	FUSE 2A/125V	1.000	PC
FU484	J5502220320X	FUSE 2A/125V	1.000	PC
G011	J4200020000X	GND PLATE	1.000	PC
WA401	J4420040200X	CNT ST 5267-02A	1.000	PC
WA402	J4420040200X	CNT ST 5267-02A	1.000	PC
WA403	J4420040200X	CNT ST 5267-02A	1.000	PC
W401	J4305100072X	CNT ASSY 1P 250MM #18	1.000	PC
FH401	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH402	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH403	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH404	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH405	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH406	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH407	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH408	J4210020001X	FUSE CLIP 0.3T	1.000	PC
DCR600 FRONT PCB				
Capacitors				
	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
C203	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C210	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C216	J3433247321X	CAP GOLD 0.047F 5.5V SCDA5R5473H	1.000	PC
CL201	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
CL202	3093623071	CC 100P0F +5% -5% 50.0V NP0	1.000	PC
CL203	8043459071	CC 22P0F +5% -5% 50.0V NP0	1.000	PC
CL204	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
CL205	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
CL206	J3640183232X	CAP M POLY 18NF 100V J	1.000	PC
CL207	J3640823232X	CAP M POLY 82NF 100V J	1.000	PC
CL208	J3640332232X	CAP POLY 3N3F 100V J	1.000	PC
CL209	J3640183232X	CAP M POLY 18NF 100V J	1.000	PC
CR201	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
CR202	3093623071	CC 100P0F +5% -5% 50.0V NP0	1.000	PC
CR203	8043459071	CC 22P0F +5% -5% 50.0V NP0	1.000	PC
CR204	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
CR205	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
CR206	J3640183232X	CAP M POLY 18NF 100V J	1.000	PC
CR207	J3640823232X	CAP M POLY 82NF 100V J	1.000	PC
CR208	J3640332232X	CAP POLY 3N3F 100V J	1.000	PC
CR209	J3640183232X	CAP M POLY 18NF 100V J	1.000	PC
C201	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C202	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C204	2026901030	CE 47U0F +20% 50.0V 85C	1.000	PC
C214	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C215	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C219	2026901030	CE 47U0F +20% 50.0V 85C	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
C220	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C232	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C233	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C234	J3470110871X	CE SG 0.1UF 50V M	1.000	PC
C235	J3600473330X	CP .047U 100V K	1.000	PC
C236	J3600473330X	CP .047U 100V K	1.000	PC
CL211	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
CR211	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C205	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C206	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C208	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C209	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C211	1507090091	CCCFMIN 820P0F +10% -10% 50.0V NP0	1.000	PC
C212	1507090091	CCCFMIN 820P0F +10% -10% 50.0V NP0	1.000	PC
C213	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C217	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C218	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C228	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C229	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C230	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C237	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C238	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C239	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C240	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C241	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C242	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C244	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C245	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C246	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C247	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C248	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
Semiconductors				
Q222	J2021220102X	TR NPN DTC114YSA	1.000	PC
Q223	J2021220102X	TR NPN DTC114YSA	1.000	PC
Q224	J2021220102X	TR NPN DTC114YSA	1.000	PC
Q225	J2021220102X	TR NPN DTC114YSA	1.000	PC
Q227	J2021020801X	TR MPSA06 Y TO-92	1.000	PC
Q235	J2021220102X	TR NPN DTC114YSA	1.000	PC
D248	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D249	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D250	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D251	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D253	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D254	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D255	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D261	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D262	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D263	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
D264	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
IC202	J2141004002X	IC BU4094 SOP16	1.000	PC
IC203	J2141004002X	IC BU4094 SOP16	1.000	PC
IC204	J2141004002X	IC BU4094 SOP16	1.000	PC
Q236	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q237	J2041220102X	TR NPN DTC114YKA	1.000	PC
IC201	J2132314074X	IC CPU DCR600 CXP82860-320Q SONY	1.000	PC
IC205	J2110212000X	IC OPAMP 2068DD	1.000	PC
Resistors				
RL201	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
RL202	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
RL203	5088667091	RMGCFMIN 1M0 OHM +5% 100MI0W	1.000	PC
RL204	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
RL205	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
RL206	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
RL207	2047194091	RMGCFMIN 680R0 OHM +5% 100MI0W	1.000	PC
RL208	6044439091	RMGCFMIN 3K9 OHM +5% 100MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
RL209	6044440091	RMGCFMIN 22K0 OHM +5% 100MI0W	1.000	PC
RL210	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
RR201	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
RR202	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
RR203	5088667091	RMGCFMIN 1M0 OHM +5% 100MI0W	1.000	PC
RR204	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
RR205	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
RR206	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
RR207	2047194091	RMGCFMIN 680R0 OHM +5% 100MI0W	1.000	PC
RR208	6044439091	RMGCFMIN 3K9 OHM +5% 100MI0W	1.000	PC
RR209	6044440091	RMGCFMIN 22K0 OHM +5% 100MI0W	1.000	PC
RR210	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R249	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R250	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R251	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R252	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R253	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R254	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R255	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R256	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R257	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R258	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R259	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R260	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R261	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R264	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R265	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R266	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R267	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R268	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R269	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R270	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R271	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R272	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R273	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R274	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R275	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R276	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R277	1035519091	RMGCFMIN 2R2 OHM +5% 100MI0W	1.000	PC
R278	1035519091	RMGCFMIN 2R2 OHM +5% 100MI0W	1.000	PC
R279	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R280	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R281	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R283	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R284	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R285	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R286	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R287	1106650091	RMGCFMIN 68K0 OHM +5% 100MI0W	1.000	PC
R288	1106650091	RMGCFMIN 68K0 OHM +5% 100MI0W	1.000	PC
R289	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R290	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R291	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R292	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R293	1106646091	RMGCFMIN 8K2 OHM +5% 100MI0W	1.000	PC
R294	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R295	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R296	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R297	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R298	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R299	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R300	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R361	2047192091	RMGCFMIN 220R0 OHM +5% 100MI0W	1.000	PC
R362	2047192091	RMGCFMIN 220R0 OHM +5% 100MI0W	1.000	PC
R365	8044037091	RMGCFMIN 150R0 OHM +5% 100MI0W	1.000	PC
R366	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
VR201	J32616100001	ENCODER EC 16E	1.000	PC
VR202	J32214000201	VR-ROTARY 14MM	1.000	PC
VR203	J32214000201	VR-ROTARY 14MM	1.000	PC
VR204	J32214000101	VR-ROTARY 14MM	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
Miscellaneous				
J173	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J202	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J206	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J207	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J210	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J211	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J212	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J213	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J214	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J215	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J222	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J223	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J230	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J231	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J232	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J233	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J234	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J235	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J236	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J237	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J238	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J239	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J243	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J244	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J245	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J246	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J247	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J248	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J288	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J294	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
	J4420040300X	CNT PLUG 2.5 3P	1.000	PC
CN201	J4305100051X	CNT ASSY 7P 450MM SL 2.5MM #24	1.000	PC
CN202	J4305100052X	CNT ASSY 3P 620MM SL 2.5MM #24	1.000	PC
CN203	J4305100055X	CNT ASSY 9P 400MM SL 2.0MM #26	1.000	PC
CN204	J4305100053X	CNT ASSY 4P 100MM SL 2.0MM #26	1.000	PC
CN205	J4305100058X	CNT ASSY 4P 360MM SHIELD SL 2.0MM #28	1.000	PC
CN206	J4305100057X	CNT ASSY 10P 220MM SHIELD SL 2.0MM #28	1.000	PC
CN207	J4112213801X	FPC CABLE 21P 380MM 1.25MM	1.000	PC
CN208	J4112275001X	FPC CABLE 27P 500MM 1.25	1.000	PC
CN209	J4305100059X	CNT ASSY 8P 500MM SHIELD SL 2.0MM #8	1.000	PC
CN210	J4305100063X	CNT ASSY 2P 100MM SL 2.0MM #26	1.000	PC
CP201	J4422212740X	FPC PLUG 27P 1.25	1.000	PC
CP202	J4422212140X	FPC PLUG 21P 1.25MM ANG GF120-21S-LS	1.000	PC
CP203	J4420030840X	CNT PLUG 2.0 ST 8P	1.000	PC
CP204	J4420030540X	CNT PLUG 2.0 ST 5P	1.000	PC
JA201	J44303000100	JACK RCA 3P	1.000	PC
JA202	J44311000100	JACK S-VIDEO 1P	1.000	PC
L201	J2616247920X	COIL 4.7UH K	1.000	PC
L202	J2616247920X	COIL 4.7UH K	1.000	PC
FL201	J2352230020X	VFD HNA-16LL15	1.000	PC
FN201	J60600006000	SHIELD FENCE TONE	1.000	PC
W201	J4305100025X	LUG WIRE 1P 200MM #18	1.000	PC
X201	J3911030020X	RESONATOR ZTA10MTT	1.000	PC
DCR600 KEY PCB				
Capacitors				
C401	3093924091	CCCFMIN 22N0F +10% -10% 50.0V X7R	1.000	PC
C402	3093924091	CCCFMIN 22N0F +10% -10% 50.0V X7R	1.000	PC
C403	1105933091	CCCFMIN 2N2F +10% -10% 50.0V X7R	1.000	PC
C404	1105933091	CCCFMIN 2N2F +10% -10% 50.0V X7R	1.000	PC
C405	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C406	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C409	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C410	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
C411	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C412	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C413	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C414	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C415	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C416	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
Semiconductors				
D404	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D405	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D406	J2244010104X	DIODE CHIP 1SS355	1.000	PC
Q401	J2041220102X	TR NPN DTC114YKA	1.000	PC
D401	J2302210012X	LED RED/GREEN 3F	1.000	PC
IC402	J2123239001X	IC PC-17T1 PHOTOCOUPLER	1.000	PC
Q403	J2021200501X	TR PNP KRA107M	1.000	PC
Resistors				
R401	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R402	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R403	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R404	4043829091	RMGCFMIN 1K5 OHM +5% 100MI0W	1.000	PC
R405	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R406	5088659091	RMGCFMIN 2K7 OHM +5% 100MI0W	1.000	PC
R407	1106644091	RMGCFMIN 3K3 OHM +5% 100M10W	1.000	PC
R408	8044040091	RMGCFMIN 5K6 OHM +5% 100M10W	1.000	PC
R409	1106646091	RMGCFMIN 8K2 OHM +5% 100MI0W	1.000	PC
R410	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
R411	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R412	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R413	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R414	4043829091	RMGCFMIN 1K5 OHM +5% 100MI0W	1.000	PC
R415	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R416	5088659091	RMGCFMIN 2K7 OHM +5% 100MI0W	1.000	PC
R417	1106644091	RMGCFMIN 3K3 OHM +5% 100MI0W	1.000	PC
R418	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R419	1106646091	RMGCFMIN 8K2 OHM +5% 100MI0W	1.000	PC
R420	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
R421	6044437091	RMGCFMIN 180R0 OHM +5% 100MI0W	1.000	PC
R422	6044437091	RMGCFMIN 180R0 OHM +5% 100MI0W	1.000	PC
R423	2047194091	RMGCFMIN 680R0 OHM +5% 100MI0W	1.000	PC
R424	2047194091	RMGCFMIN 680R0 OHM +5% 100MI0W	1.000	PC
R427	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R428	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R433	6044435091	RMGCFMIN 47R0 OHM +5% 100MI0W	1.000	PC
R434	6044438091	RMGCFMIN 270R0 OHM +5% 100MI0W	1.000	PC
R435	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R436	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
Miscellaneous				
CN401	J4305100054X	CNT ASSY 8P 100MM #26	1.000	PC
CN402	J4305100056X	CNT ASSY 5P 100MM SL 2.0MM #26	1.000	PC
CN403	J4305100062X	CNT ASSY 3P 600MM SHIELD SL 2.0MM #28	1.000	PC
CN404	J4305100071X	CNT ASSY 7P 100MM SHIELD SL 2.0MM #28	1.000	PC
CP403	J4420030240X	CON WAFER 2P 2.0	1.000	PC
CP404	J4420030440X	CNT PLUG 4P 2.0MM	1.000	PC
CP405	J4420030440X	CNT PLUG 4P 2.0MM	1.000	PC
FN401	J60300028000	BKT GROUND ET 0.5T	1.000	PC
FN402	J60300028000	BKT GROUND ET 0.5T	1.000	PC
HP401	J44329000102	JACK MIC 9P GOLD	1.000	PC
JA401	J44302401201	JACK RCA 4P S	1.000	PC
JA403	J44333000001	STEREO JACK JW-350S	1.000	PC
JA404	J44333000001	STEREO JACK JW-350S	1.000	PC
L401	J2616247020X	COIL 47UH	1.000	PC
L402	J2616247020X	COIL 47UH	1.000	PC
W401	J4305100025X	LUG WIRE 1P 200MM #18	1.000	PC
SW401	J46500500501	SW TACT SKQNAE	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
SW402	J46500500501	SW TACT SKQNAE	1.000	PC
SW403	J46500500501	SW TACT SKQNAE	1.000	PC
SW404	J46500500501	SW TACT SKQNAE	1.000	PC
SW405	J46500500501	SW TACT SKQNAE	1.000	PC
SW406	J46500500501	SW TACT SKQNAE	1.000	PC
SW407	J46500500501	SW TACT SKQNAE	1.000	PC
SW408	J46500500501	SW TACT SKQNAE	1.000	PC
SW409	J46500500501	SW TACT SKQNAE	1.000	PC
SW410	J46500500501	SW TACT SKQNAE	1.000	PC
SW411	J46500500501	SW TACT SKQNAE	1.000	PC
SW412	J46500500501	SW TACT SKQNAE	1.000	PC
SW413	J46500500501	SW TACT SKQNAE	1.000	PC
SW414	J46500500501	SW TACT SKQNAE	1.000	PC
SW415	J46500500501	SW TACT SKQNAE	1.000	PC
SW416	J46500500501	SW TACT SKQNAE	1.000	PC
SW417	J46500500501	SW TACT SKQNAE	1.000	PC
SW418	J46500500501	SW TACT SKQNAE	1.000	PC
SW419	J46500500501	SW TACT SKQNAE	1.000	PC
SW420	J46500500501	SW TACT SKQNAE	1.000	PC
J407	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J408	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
DCR600 VIDEO PCB				
Capacitors				
CC601	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CC603	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CC606	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CF601	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CF602	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CF604	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CF605	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CF611	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CF612	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
CS607	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C601	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C602	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C603	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C604	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C613	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C614	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C615	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C616	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C617	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C621	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C622	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C623	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C624	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C625	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C626	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C627	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C628	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C647	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C650	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C651	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C652	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C653	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C664	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C665	2025267030	CE 470U0F +20% 10.0V 85C	1.000	PC
C699	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
CC602	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
CC604	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
CC607	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
CC609	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
CF603	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
CF606	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
CF613	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C608	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
C611	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C612	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C637	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C638	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C640	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C641	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C642	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C657	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C696	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
Semiconductors				
IC601	J2116012001X	IC VIDEO NJM2296	1.000	PC
IC602	J2116012001X	IC VIDEO NJM2296	1.000	PC
IC603	J2116012001X	IC VIDEO NJM2296	1.000	PC
IC619	J2141004002X	IC BU4094 SOP16	1.000	PC
Resistors				
RC601	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
RC602	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RC603	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
RC604	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RC606	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RC607	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RC608	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
RC609	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
RC610	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RC614	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RF602	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
RF604	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
RF612	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
RF615	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RF616	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RF617	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS602	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS603	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS605	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS606	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS608	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS609	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS611	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS612	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS620	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
RS621	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
R617	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R619	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R621	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R622	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R623	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R627	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R628	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R629	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R632	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
R633	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
R674	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R699	2047199091	RMGCFMIN 12K0 OHM +5% 100MI0W	1.000	PC
Miscellaneous				
CN603	J4305100064X	CNT ASSY 4P 250MM SL 2.0MM #26	1.000	PC
CP601	J4423331600X	CNT PLUG BD'BD 2.0	1.000	PC
CP602	J4420030840X	CNT PLUG 2.0 ST 8P	1.000	PC
JA601	J44312000100	JACK RCA+S GNDCAP	1.000	PC
JA602	J44312000100	JACK RCA+S GNDCAP	1.000	PC
JA604	J44312000100	JACK RCA+S GNDCAP	1.000	PC
JA605	J44312000100	JACK RCA+S GNDCAP	1.000	PC
JA606	J44312000100	JACK RCA+S GNDCAP	1.000	PC
JA607	J44312000100	JACK RCA+S GNDCAP	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
J036	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J039	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J040	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J041	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J048	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J052	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
DCR600 PROCESSOR PCB				
Capacitors				
C723	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C724	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C725	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C728	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C729	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C730	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C764	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C765	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C768	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C769	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C770	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C771	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C773	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C774	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C782	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C783	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C784	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C787	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C788	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C789	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C792	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C795	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C796	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C797	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C798	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C799	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C800	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C801	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C802	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C804	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C805	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C807	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C808	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C809	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C811	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C813	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C814	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C816	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C818	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C819	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C821	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C822	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C823	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C825	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C826	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C827	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C829	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C831	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C832	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C834	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C836	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C837	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C839	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C841	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C842	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C844	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C846	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C847	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
C849	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C851	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C852	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C854	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C856	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C857	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C859	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C861	J3470133111X	CE 330U 6V3 M 6.3*11	1.000	PC
C862	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C864	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C866	J3470133111X	CE 330U 6V3 M 6.3*11	1.000	PC
C867	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
Q732	J2021120003X	FET RA/TAP 2SK117Y	1.000	PC
C701	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C702	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C703	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C704	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C705	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C706	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C707	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C708	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C719	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C720	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C721	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C722	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C726	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C727	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C731	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C732	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C734	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C736	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C737	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C738	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C739	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C740	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C763	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C767	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C772	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C775	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C793	1105933091	CCCFMIN 2N2F +10% -10% 50.0V X7R	1.000	PC
C794	1105933091	CCCFMIN 2N2F +10% -10% 50.0V X7R	1.000	PC
C812	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C817	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C820	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C824	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C828	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C830	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C833	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C835	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C840	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C845	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C848	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C850	1105933091	CCCFMIN 2N2F +10% -10% 50.0V X7R	1.000	PC
C855	5088236091	CCCFMIN 33P0F +5% -5% 50.0V NP0	1.000	PC
C858	8043682091	CCCFMIN 680P0F +10% -10% 50.0V X7R	1.000	PC
C860	8043682091	CCCFMIN 680P0F +10% -10% 50.0V X7R	1.000	PC
C863	8043682091	CCCFMIN 680P0F +10% -10% 50.0V X7R	1.000	PC
C865	8043682091	CCCFMIN 680P0F +10% -10% 50.0V X7R	1.000	PC
C870	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C871	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
Semiconductors				
IC704	J2121005001X	IC SW KIC9162AF SOP28 KEC	1.000	PC
IC705	J2121005002X	IC SW KIC9163AF SOP28 KEC	1.000	PC
IC706	J2115006002X	IC VOL TC9482F SOP TOSHIBA	1.000	PC
IC707	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC709	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC713	J2110012004X	IC OPAMP NJM2068	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
IC714	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC715	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC716	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC717	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC718	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC719	J2110012005X	IC AMP NJM4556AM DMP8	1.000	PC
IC720	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC721	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC722	J2110012004X	IC OPAMP NJM2068	1.000	PC
Q707	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q708	J2021220801X	TR NPN KTD1304	1.000	PC
Q709	J2021220801X	TR NPN KTD1304	1.000	PC
Q713	J2021220801X	TR NPN KTD1304	1.000	PC
Q714	J2021220801X	TR NPN KTD1304	1.000	PC
Q715	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q716	J2021220801X	TR NPN KTD1304	1.000	PC
Q717	J2021220801X	TR NPN KTD1304	1.000	PC
Q718	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q719	J2021220801X	TR NPN KTD1304	1.000	PC
Q720	J2021220801X	TR NPN KTD1304	1.000	PC
Q721	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q722	J2021220801X	TR NPN KTD1304	1.000	PC
Q723	J2021220801X	TR NPN KTD1304	1.000	PC
Q724	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q725	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q727	J2021220801X	TR NPN KTD1304	1.000	PC
Q729	J2021220801X	TR NPN KTD1304	1.000	PC
Q730	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q731	J2041220102X	TR NPN DTC114YKA	1.000	PC
Q733	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q734	J2041220102X	TR NPN DTC114YKA	1.000	PC
Q735	J2041200102X	TR PNP DTA114YKA	1.000	PC
Q736	J2041200102X	TR PNP DTA114YKA	1.000	PC
IC701	J2115206007X	IC TC9273N-007	1.000	PC
Resistors				
R701	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R702	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R703	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R704	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R705	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R706	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R707	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R708	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R721	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R722	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R723	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R724	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R725	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R726	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R727	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R728	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R729	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R730	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R731	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R732	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R733	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R734	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R735	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R736	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R738	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R740	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R741	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R742	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R743	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R744	4043835091	RMGCFMIN 470K0 OHM +5% 100MI0W	1.000	PC
R768	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R769	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R781	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R782	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R783	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R784	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R785	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R796	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R797	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R798	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R799	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R800	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R801	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R802	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R803	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R804	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R805	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R806	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R807	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R808	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R809	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R810	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R811	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R812	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R813	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R814	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R815	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R816	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R817	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R818	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R819	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R820	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R821	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R822	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R823	3094434091	RMGCFMIN 27K0 OHM +5% 100MI0W	1.000	PC
R830	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R831	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R832	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R833	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R834	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R835	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R836	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R837	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R838	8044048091	RMGCFMIN 3M3 OHM +5% 100MI0W	1.000	PC
R839	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R840	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R841	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R842	2047199091	RMGCFMIN 12K0 OHM +5% 100MI0W	1.000	PC
R843	2047199091	RMGCFMIN 12K0 OHM +5% 100MI0W	1.000	PC
R844	2047199091	RMGCFMIN 12K0 OHM +5% 100MI0W	1.000	PC
R845	1106644091	RMGCFMIN 3K3 OHM +5% 100MI0W	1.000	PC
R846	1106644091	RMGCFMIN 3K3 OHM +5% 100MI0W	1.000	PC
R847	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R848	2047199091	RMGCFMIN 12K0 OHM +5% 100MI0W	1.000	PC
R849	2047199091	RMGCFMIN 12K0 OHM +5% 100MI0W	1.000	PC
R850	2047199091	RMGCFMIN 12K0 OHM +5% 100MI0W	1.000	PC
R851	1106644091	RMGCFMIN 3K3 OHM +5% 100MI0W	1.000	PC
R852	1106644091	RMGCFMIN 3K3 OHM +5% 100MI0W	1.000	PC
R853	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R854	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R855	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R856	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R857	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R858	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R859	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R860	3094432091	RMGCFMIN 9K1 OHM +5% 100MI0W	1.000	PC
R861	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
R862	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
R863	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
R864	2047192091	RMGCFMIN 220R0 OHM +5% 100MI0W	1.000	PC
R865	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R866	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R867	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R868	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R869	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R870	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R871	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R872	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R873	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R874	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R875	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R876	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R878	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R879	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R880	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R881	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R882	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R883	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R884	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R885	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R886	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R887	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R888	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R889	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R890	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R891	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R892	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R893	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R894	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R895	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R896	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R897	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R898	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R899	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R901	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R902	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R903	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R904	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R905	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R907	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R908	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R909	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R910	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R911	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R912	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R913	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R914	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R915	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R916	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R917	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R918	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R919	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R920	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R921	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R922	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R923	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R924	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R925	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R926	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R927	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R928	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R929	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R930	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R931	4043829091	RMGCFMIN 1K5 OHM +5% 100MI0W	1.000	PC
R932	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R933	2047192091	RMGCFMIN 220R0 OHM +5% 100MI0W	1.000	PC
R934	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R935	3094434091	RMGCFMIN 27K0 OHM +5% 100MI0W	1.000	PC
R936	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R937	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R938	4043829091	RMGCFMIN 1K5 OHM +5% 100MI0W	1.000	PC
R939	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R940	2047192091	RMGCFMIN 220R0 OHM +5% 100MI0W	1.000	PC
R942	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R943	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R944	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R945	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R946	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R947	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R948	3094434091	RMGCFMIN 27K0 OHM +5% 100MI0W	1.000	PC
R949	2047192091	RMGCFMIN 220R0 OHM +5% 100MI0W	1.000	PC
R950	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R951	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R952	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R953	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R954	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R955	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R956	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
R957	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R958	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R959	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R960	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R963	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R964	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R965	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R966	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R967	3094434091	RMGCFMIN 27K0 OHM +5% 100MI0W	1.000	PC
R968	3094434091	RMGCFMIN 27K0 OHM +5% 100MI0W	1.000	PC
R969	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
R970	9057443091	RMGCFMIN 18K0 OHM +5% 100MI0W	1.000	PC
Miscellaneous				
CN408	J4423331500X	CNT 2.O 35237-1510	1.000	PC
CN409	J4423331500X	CNT 2.O 35237-1510	1.000	PC
CN410	J4423331500X	CNT 2.O 35237-1510	1.000	PC
CN411	J4423331500X	CNT 2.O 35237-1510	1.000	PC
CP205	J4420030440X	CNT PLUG 4P 2.0MM	1.000	PC
CP206	J4420031040X	CNT PLUG 2.0 10P	1.000	PC
CP403	J4420030340X	CNT PLUG 2.0 ST 3P	1.000	PC
CP404	J4420030740X	CNT PLUG 2.0ST 7P	1.000	PC
CP405	J4420031240X	CNT PLUG12P 2.0MM	1.000	PC
JK701	J44302401201	JACK RCA 4P S	1.000	PC
JK702	J44302401201	JACK RCA 4P S	1.000	PC
JK703	J44302001401	JACK RCA 2P WR JW1609RS W/GNIDCAP JEWON	1.000	PC
DCR600 DSP PCB				
Capacitors				
C112	2025256030	CE 220U0F +20% 6.3V 85C	1.000	PC
C148	20269180AM	CE 1MI0F +20% 6.3V 85C	1.000	PC
C149	20269180AM	CE 1MI0F +20% 6.3V 85C	1.000	PC
C150	20269180AM	CE 1MI0F +20% 6.3V 85C	1.000	PC
C020	J3640683220X	CMP 0.068U 63V J	1.000	PC
C031	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C032	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C056	2026885030	CE 2U2F +20% 50.0V 85C	1.000	PC
C068	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C069	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C070	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C071	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C080	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C081	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C082	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C083	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C092	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C093	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C094	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
C095	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C110	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C111	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C114	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C115	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C116	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C117	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C118	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C119	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C146	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C151	2026902030	CE 100U0F +20% 16.0V 85C	1.000	PC
C152	2026902030	CE 100U0F +20% 16.0V 85C	1.000	PC
C155	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C156	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C157	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C158	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C159	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C160	J3470910030X	CE RA/TAP 10UF 16V M4*7 SS 2.5MM	1.000	PC
C164	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C165	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C167	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C168	2026783030	CE 47U0F +20% 16.0V 85C	1.000	PC
C003	1105934091	CCCFMIN 10N0F +10% -10% 50.0V X7R	1.000	PC
C004	1105934091	CCCFMIN 10N0F +10% -10% 50.0V X7R	1.000	PC
C010	6044108091	CCCFMIN 22P0F +5% -5% 50.0V NP0	1.000	PC
C011	1105934091	CCCFMIN 10N0F +10% -10% 50.0V X7R	1.000	PC
C019	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C021	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C024	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C025	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C057	2026732091	CCCFMIN 220N0F +80% -20% 50.0V Y5V	1.000	PC
C060	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
C062	1105864091	CCCFMIN 27P0F +5% -5% 50.0V NP0	1.000	PC
C067	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C072	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C073	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C074	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C075	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C076	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C077	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C078	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C079	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C084	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C085	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C086	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C087	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C088	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C089	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C090	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C091	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C096	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C097	3093923091	CCCFMIN 2N7F +10% -10% 50.0V X7R	1.000	PC
C098	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C099	2046934091	CCCFMIN 4N7F +10% -10% 50.0V X7R	1.000	PC
C100	2046934091	CCCFMIN 4N7F +10% -10% 50.0V X7R	1.000	PC
C101	1105932091	CCCFMIN 1N0F +10% -10% 50.0V X7R	1.000	PC
C102	1105871091	CCCFMIN 560P0F +5% -5% 50.0V NP0	1.000	PC
C103	1105932091	CCCFMIN 1N0F +10% -10% 50.0V X7R	1.000	PC
C104	1105933091	CCCFMIN 2N2F +10% -10% 50.0V X7R	1.000	PC
C105	1105933091	CCCFMIN 2N2F +10% -10% 50.0V X7R	1.000	PC
C106	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C107	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C108	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C109	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C120	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C121	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C122	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C136	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C163	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
C178	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C001	6044108091	CCCFMIN 22P0F +5% -5% 50.0V NP0	1.000	PC
C002	6044108091	CCCFMIN 22P0F +5% -5% 50.0V NP0	1.000	PC
C005	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C006	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C008	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C012	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C013	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C014	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C015	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C016	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C017	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C018	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C022	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C026	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C029	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C030	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C033	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C034	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C035	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C036	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C037	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C040	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C041	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C042	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C043	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C049	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C050	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C059	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C061	2046897091	CCCFMIN 330P0F +5% -5% 50.0V NP0	1.000	PC
C063	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C064	1105867091	CCCFMIN 100P0F +5% -5% 50.0V NP0	1.000	PC
C065	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C066	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C113	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C123	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C124	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C125	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C126	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C127	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C128	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C129	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C130	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C131	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C132	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C133	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C134	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C135	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C137	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C147	3093873091	CCCFMIN 220P0F +5% -5% 50.0V NP0	1.000	PC
C166	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C169	2046897091	CCCFMIN 330P0F +5% -5% 50.0V NP0	1.000	PC
C170	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C171	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C172	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
C174	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C175	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
C176	4043518091	CCCFMIN 47P0F +5% -5% 50.0V NP0	1.000	PC
Semiconductors				
D003	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D004	J2244010104X	DIODE CHIP 1SS355	1.000	PC
D008	J2244010104X	DIODE CHIP 1SS355	1.000	PC
IC01	J2129012001X	IC CLK NJU6324M	1.000	PC
IC04	J2131328004X	IC EPROM AT27LV020A-12JC	1.000	PC
IC05	J2135326005X	IC CS493263-CL PLCC44 CRYSTAL DECODER	1.000	PC
IC06	J2133926005X	IC DAC CS4391-KS SOIC20 CRYSTAL	1.000	PC
IC07	J2133926005X	IC DAC CS4391-KS SOIC20 CRYSTAL	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
IC08	J2133926005X	IC DAC CS4391-KS SOIC20 CRYSTAL	1.000	PC
IC09	J2133926002X	IC ADC CS5360-KS	1.000	PC
IC10	J2116007001X	IC 74HCU04M1R HEX	1.000	PC
IC11	J2116007001X	IC 74HCU04M1R HEX	1.000	PC
IC12	J2116007001X	IC 74HCU04M1R HEX	1.000	PC
IC13	J2142032005X	IC 74VHC153MX	1.000	PC
IC14	J2136926001X	IC DIR CS8414-CS	1.000	PC
IC15	J2141004002X	IC BU4094 SOP16	1.000	PC
IC16	J2141004001X	IC BU4051 SOP16	1.000	PC
IC17	J2142032006X	IC 74VHC157MX	1.000	PC
IC18	J2142032002X	IC TC74VHC244MX	1.000	PC
IC19	J2142032002X	IC TC74VHC244MX	1.000	PC
IC20	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC21	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC22	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC24	J2110012004X	IC OPAMP NJM2068	1.000	PC
IC25	J2110012004X	IC OPAMP NJM2068	1.000	PC
D009	J2244010104X	DIODE CHIP 1SS355	1.000	PC
IC02	J2142032001X	IC F/F 74VHC574MX	1.000	PC
IC03	J2142032001X	IC F/F 74VHC574MX	1.000	PC
Resistors				
R003	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R004	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R005	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R006	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R007	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R008	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R009	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R010	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R011	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R012	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
R013	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R014	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R015	2047193091	RMGCFMIN 510R0 OHM +5% 100MI0W	1.000	PC
R016	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R017	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R018	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R019	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R020	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
R022	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R023	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R027	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R028	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R031	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R036	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R037	8044039091	RMGCFMIN 2K2 OHM +5% 100MI0W	1.000	PC
R038	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R039	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R040	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R041	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R044	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R045	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R046	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R047	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R048	5088660091	RMGCFMIN 5K1 OHM +5% 100MI0W	1.000	PC
R049	9057440091	RMGCFMIN 470R0 OHM +5% 100MI0W	1.000	PC
R050	5088660091	RMGCFMIN 5K1 OHM +5% 100MI0W	1.000	PC
R051	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R052	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R053	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R054	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R055	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R056	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R057	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R058	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R059	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R060	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R061	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R062	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R063	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R064	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R071	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R072	4043829091	RMGCFMIN 1K5 OHM +5% 100MI0W	1.000	PC
R073	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R074	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R075	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R076	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R078	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R080	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R081	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R082	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R083	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R084	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R085	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R086	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R087	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R088	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R089	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R091	8044037091	RMGCFMIN 150R0 OHM +5% 100MI0W	1.000	PC
R092	8044037091	RMGCFMIN 150R0 OHM +5% 100MI0W	1.000	PC
R093	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R094	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R095	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R096	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R097	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R098	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R099	8044037091	RMGCFMIN 150R0 OHM +5% 100MI0W	1.000	PC
R100	8044037091	RMGCFMIN 150R0 OHM +5% 100MI0W	1.000	PC
R101	3094433091	RMGCFMIN 20K0 OHM +5% 100MI0W	1.000	PC
R102	3094433091	RMGCFMIN 20K0 OHM +5% 100MI0W	1.000	PC
R105	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R106	5088663091	RMGCFMIN 100K0 OHM +5% 100MI0W	1.000	PC
R107	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R108	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R109	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R111	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R112	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R113	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R114	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R115	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R116	2026729091	CCCFMIN 100N0F +80% -20% 50.0V Y5V	1.000	PC
R117	5088661091	RMGCFMIN 10K0 OHM +5% 100MI0W	1.000	PC
R119	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R120	3094431091	RMGCFMIN 4K7 OHM +5% 100MI0W	1.000	PC
R124	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R125	2047202091	RMGCFMIN 180K0 OHM +5% 100MI0W	1.000	PC
R126	5088660091	RMGCFMIN 5K1 OHM +5% 100MI0W	1.000	PC
R127	5088660091	RMGCFMIN 5K1 OHM +5% 100MI0W	1.000	PC
R128	5088660091	RMGCFMIN 5K1 OHM +5% 100MI0W	1.000	PC
R129	5088660091	RMGCFMIN 5K1 OHM +5% 100MI0W	1.000	PC
R130	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R131	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R132	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R133	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R134	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R135	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R136	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R137	5088655091	RMGCFMIN 560R0 OHM +5% 100MI0W	1.000	PC
R138	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R139	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R141	1106648091	RMGCFMIN 47K0 OHM +5% 100MI0W	1.000	PC
R143	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R144	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R145	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R146	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC
R147	8044040091	RMGCFMIN 5K6 OHM +5% 100MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R148	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R149	7043423091	RMGCFMIN 1K2 OHM +5% 100MI0W	1.000	PC
R151	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R152	7043420091	RMGCFMIN 100R0 OHM +5% 100MI0W	1.000	PC
R160	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R162	3094425091	RMGCFMIN 10R0 OHM +5% 100MI0W	1.000	PC
R170	2047195091	RMGCFMIN 1K0 OHM +5% 100MI0W	1.000	PC
R001	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
R002	1106639091	RMGCFMIN 75R0 OHM +5% 100MI0W	1.000	PC
R043	1511259091	RMGCFMIN 3R3 OHM +5% 100MI0W	1.000	PC
R090	1511259091	RMGCFMIN 3R3 OHM +5% 100MI0W	1.000	PC
R150	1035519091	RMGCFMIN 2R2 OHM +5% 100MI0W	1.000	PC
Miscellaneous				
	J60600014000	SHIELD DIGITAL ET 0.5T	1.000	PC
CN05	J4305100060X	CNT ASSY 5P 480MM SL 2.0MM #26	1.000	PC
COIL1	J2831020205X	TRANS PULSE 110UH FP-110	1.000	PC
CP01	J4422212140X	FPC PLUG 21P 1.25MM ANG GF120-21S-LS	1.000	PC
CP02	J4423331100X	CNT PLUG BD'BD 2.0	1.000	PC
CP03	J4423331600X	CNT PLUG BD'BD 2.0	1.000	PC
CP04	J4420130540X	CNT 2.0MM 5P	1.000	PC
JAC1	J2123806001X	FIBER TORX178B	1.000	PC
JAC3	J44302001100	JACK RA 2P OO JC0200098N DAERYUNG	1.000	PC
JAC4	J2123806002X	FIBER OPT TRANS	1.000	PC
JAC5	J44301000700	JACK RCA 1P O W/GND	1.000	PC
JAC6	J2123806001X	FIBER TORX178B	1.000	PC
JAC7	J44301000600	JACK RCA 1P O W/GND JE010003MG GOLD DAER	1.000	PC
OSC1	J3914010025X	CRY 12.28MHZ	1.000	PC
W001	J4305100020X	LUG WIRE 1P 100MM #18 BKACK AWG	1.000	PC
BD05	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD16	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD18	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD61	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD01	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD02	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD04	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD10	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD11	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD12	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD15	J2631300224X	BEAD CHIP/TAP,HH-1M2012-121JT 120OHM	1.000	PC
BD23	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD25	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD26	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD27	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD28	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD29	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD30	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD31	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD32	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD34	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD38	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD41	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD42	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD43	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD44	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD45	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD57	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD58	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD62	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
BD71	J2631300204X	BEAD CHIP/TAP HB-1T2012-252JT 2K5OHM	1.000	PC
J001	J2611447822X	COIL CHIP 0.47UH K FI-A2012-471	1.000	PC
J002	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
J003	8044051091	RMGCFMIN 0 OHM +0% 100MI0W	1.000	PC
L001	J2611433022X	COIL CHIP 33UH K FI-D2012-333 33UH	1.000	PC
L003	J2611433022X	COIL CHIP 33UH K FI-D2012-333 33UH	1.000	PC
L004	J2611433022X	COIL CHIP 33UH K FI-D2012-333 33UH	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
DCR600 SURROUND PCB				
Capacitors				
C621	13073530AM	CE 470U0F +20% 50.0V 85C	1.000	PC
C622	13073530AM	CE 470U0F +20% 50.0V 85C	1.000	PC
C623	13073530AM	CE 470U0F +20% 50.0V 85C	1.000	PC
C624	13073530AM	CE 470U0F +20% 50.0V 85C	1.000	PC
C691	J3420447256X	CE DL 4700U 50V	1.000	PC
C692	J3420447256X	CE DL 4700U 50V	1.000	PC
C982	J3531472412X	CAP AC250V 472-M	1.000	PC
C984	13073530AM	CE 470U0F +20% 50.0V 85C	1.000	PC
C989	13073530AM	CE 470U0F +20% 50.0V 85C	1.000	PC
C990	13073530AM	CE 470U0F +20% 50.0V 85C	1.000	PC
C601	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C602	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C603	1105530071	CC 68P0F +5% -5% 50.0V NP0	1.000	PC
C604	1105530071	CC 68P0F +5% -5% 50.0V NP0	1.000	PC
C605	2026907030	CE 100U0F +20% 25.0V 85C	1.000	PC
C606	2026907030	CE 100U0F +20% 25.0V 85C	1.000	PC
C607	2026908030	CE 220U0F +20% 10.0V 85C	1.000	PC
C608	2026908030	CE 220U0F +20% 10.0V 85C	1.000	PC
C609	3093607071	CC 12P0F +5% -5% 50.0V NP0	1.000	PC
C610	3093607071	CC 12P0F +5% -5% 50.0V NP0	1.000	PC
C611	6043915071	CC 33P0F +5% -5% 50.0V NP0	1.000	PC
C612	6043915071	CC 33P0F +5% -5% 50.0V NP0	1.000	PC
C613	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C614	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C615	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C616	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C617	J3640104320X	CP MET .1U 63V -K	1.000	PC
C618	J3640104320X	CP MET .1U 63V -K	1.000	PC
C619	J3640104320X	CP MET .1U 63V -K	1.000	PC
C620	J3640104320X	CP MET .1U 63V -K	1.000	PC
C629	4043358071	CC 680P0F +10% -10% 50.0V	1.000	PC
C630	4043358071	CC 680P0F +10% -10% 50.0V	1.000	PC
C681	J3640683220X	CMP 0.068U 63V J	1.000	PC
C682	J3640683220X	CMP 0.068U 63V J	1.000	PC
C693	J3640104350X	CP MET .1U 250V -M	1.000	PC
C694	J3640104350X	CP MET .1U 250V -M	1.000	PC
C695	J3640104350X	CP MET .1U 250V -M	1.000	PC
C696	1500213030	CE 10U0F +20% 16.0V 85C	1.000	PC
C971	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C983	7042852071	CC 10N0F +10% -10% 50.0V Y5P	1.000	PC
C985	2049503016	CC 100N0F +10% -10% 25.0V Y5P	1.000	PC
C986	2026884030	CE 1U0F +20% 50.0V 85C	1.000	PC
C987	2026888030	CE 10U0F +20% 50.0V 85C	1.000	PC
C988	2049503016	CC 100N0F +10% -10% 25.0V Y5P	1.000	PC
C991	2026901030	CE 47U0F +20% 50.0V 85C	1.000	PC
C992	1303935030	CE 100U0F +20% 35.0V 85C	1.000	PC
C993	2049503016	CC 100N0F +10% -10% 25.0V Y5P	1.000	PC
C994	2049503016	CC 100N0F +10% -10% 25.0V Y5P	1.000	PC
C995	2049503016	CC 100N0F +10% -10% 25.0V Y5P	1.000	PC
C997	7042852071	CC 10N0F +10% -10% 50.0V Y5P	1.000	PC
C998	7042852071	CC 10N0F +10% -10% 50.0V Y5P	1.000	PC
C999	7042852071	CC 10N0F +10% -10% 50.0V Y5P	1.000	PC
Semiconductors				
D691	J2202366007X	DIODE BU6-04F	1.000	PC
D981	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC
D982	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC
D983	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC
D984	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC
D985	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC
D986	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC
D989	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC
D990	2041506016	D-SR 1N4004 400.0V 1.0A	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
Q625	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q626	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q633	J2021500102X	TR PNP 2SA1859A	1.000	PC
Q634	J2021500102X	TR PNP 2SA1859A	1.000	PC
Q635	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q636	J2021520302X	TR NPN 2SC4883A	1.000	PC
Q637	J2002520203X	TR NPN 2SC5198-R(100W) TOSHIBA	1.000	PC
Q638	J2002520203X	TR NPN 2SC5198-R(100W) TOSHIBA	1.000	PC
Q639	J2002500203X	TR PNP 2SA1941-R(100W) TOSHIBA	1.000	PC
Q640	J2002500203X	TR PNP 2SA1941-R(100W) TOSHIBA	1.000	PC
D601	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D602	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D603	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D604	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D681	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D682	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D683	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D684	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D685	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D987	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D988	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D991	J2221430635X	D-ZENER .5W 30V J	1.000	PC
D992	7043654016	D-SLP 1N4148 100.0V 150E-3A	1.000	PC
D994	J2221475535X	D-Z/AX 0.5W 7.5V UZ-7.5BSB	1.000	PC
D996	J2221451535X	D-ZENER .5W 5V1 J	1.000	PC
Q601	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q602	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q603	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q604	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q605	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q606	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q607	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q608	J2021020201X	TR NPN KTC3198 BL	1.000	PC
Q611	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q612	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q613	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q614	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q615	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q616	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q617	J2021000101X	TR PNP KTA1024	1.000	PC
Q618	J2021000101X	TR PNP KTA1024	1.000	PC
Q619	J2021020501X	TR NPN KTC3206	1.000	PC
Q620	J2021020501X	TR NPN KTC3206	1.000	PC
Q621	J2021000101X	TR PNP KTA1024	1.000	PC
Q622	J2021000101X	TR PNP KTA1024	1.000	PC
Q623	J2021020501X	TR NPN KTC3206	1.000	PC
Q624	J2021020501X	TR NPN KTC3206	1.000	PC
Q627	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q628	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q629	J2021020501X	TR NPN KTC3206	1.000	PC
Q630	J2021020501X	TR NPN KTC3206	1.000	PC
Q631	J2021000101X	TR PNP KTA1024	1.000	PC
Q632	J2021000101X	TR PNP KTA1024	1.000	PC
Q681	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q682	J2021020701X	TR NPN KTC3200 BL	1.000	PC
Q683	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q981	J2021005101X	TR PNP KTA1268 BL	1.000	PC
Q982	J2021020801X	TR MPSA06 Y TO-92	1.000	PC
Resistors				
R671	J3076228421X	RES MPR 0.22 5W J	1.000	PC
R672	J3076228421X	RES MPR 0.22 5W J	1.000	PC
R675	J3010100620X	RES OXIDE 10 1W J	1.000	PC
R676	J3010100620X	RES OXIDE 10 1W J	1.000	PC
R995	J3091335033X	RES 3.3MOHM 1/2W	1.000	PC
VR601	J3211310210X	RES SEMI 1K	1.000	PC
VR602	J3211310210X	RES SEMI 1K	1.000	PC
R601	6044155016	RCF 330R0 OHM +5% 250MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R602	6044155016	RCF 330R0 OHM +5% 250MI0W	1.000	PC
R603	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R604	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R605	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R606	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R607	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R608	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R609	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R610	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R611	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R612	2046945016	RCF 220R0 OHM +5% 250MI0W	1.000	PC
R613	1105961016	RCF 270R0 OHM +5% 250MI0W	1.000	PC
R614	1105961016	RCF 270R0 OHM +5% 250MI0W	1.000	PC
R615	2046951016	RCF 43K0 OHM +5% 250MI0W	1.000	PC
R616	2046951016	RCF 43K0 OHM +5% 250MI0W	1.000	PC
R617	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R618	8043703016	RCF 27K0 OHM +5% 250MI0W	1.000	PC
R619	8043701016	RCF 1K8 OHM +5% 250MI0W	1.000	PC
R620	8043701016	RCF 1K8 OHM +5% 250MI0W	1.000	PC
R621	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R622	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R623	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R624	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R625	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R626	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R627	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R628	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R629	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R630	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R631	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R632	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R633	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R634	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R635	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R636	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R637	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R638	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R639	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R640	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R641	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R642	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R643	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R644	5088296016	RCF 150R0 OHM +5% 250MI0W	1.000	PC
R645	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R646	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R647	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R648	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R649	1105964016	RCF 1K0 OHM +5% 250MI0W	1.000	PC
R650	1105964016	RCF 1K0 OHM +5% 250MI0W	1.000	PC
R651	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R652	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R653	4043564016	RCF 4K7 OHM +5% 250MI0W	1.000	PC
R654	4043564016	RCF 4K7 OHM +5% 250MI0W	1.000	PC
R655	7043056016	RCF 5K6 OHM +5% 250MI0W	1.000	PC
R656	7043056016	RCF 5K6 OHM +5% 250MI0W	1.000	PC
R657	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R658	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R659	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R660	5088295016	RCF 100R0 OHM +5% 250MI0W	1.000	PC
R661	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R662	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R663	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R664	3093937016	RCF 15R0 OHM +5% 250MI0W	1.000	PC
R665	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R666	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R667	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R668	4043891016	RCF 2R2 OHM +5% 250MI0W	1.000	PC
R669	1105959016	RCF 82R0 OHM +5% 250MI0W	1.000	PC
R670	1105959016	RCF 82R0 OHM +5% 250MI0W	1.000	PC

REF. DESIGNATOR	PART NUMBER	PART NAME / DESCRIPTION	Q'TY	UNIT
R673	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R674	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R677	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R678	3093936016	RCF 10R0 OHM +5% 250MI0W	1.000	PC
R679	5088297016	RCF 470R0 OHM +5% 250MI0W	1.000	PC
R680	5088297016	RCF 470R0 OHM +5% 250MI0W	1.000	PC
R681	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R682	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R683	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R684	5088301016	RCF 15K0 OHM +5% 250MI0W	1.000	PC
R685	6044158016	RCF 22K0 OHM +5% 250MI0W	1.000	PC
R686	6044158016	RCF 22K0 OHM +5% 250MI0W	1.000	PC
R687	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R688	4043563016	RCF 1K5 OHM +5% 250MI0W	1.000	PC
R689	9057113016	RCF 39K0 OHM +5% 250MI0W	1.000	PC
R690	9057113016	RCF 39K0 OHM +5% 250MI0W	1.000	PC
R691	3093948016	RCF 10K0 OHM +5% 250MI0W	1.000	PC
R692	9057113016	RCF 39K0 OHM +5% 250MI0W	1.000	PC
R971	3093948016	RCF 10K0 OHM +5% 250MI0W	1.000	PC
R972	3093951016	RCF 100K0 OHM +5% 250MI0W	1.000	PC
R981	2047253016	RCF 4R7 OHM +5% 250MI0W	1.000	PC
R982	2046946016	RCF 2K2 OHM +5% 250MI0W	1.000	PC
R983	1105964016	RCF 1K0 OHM +5% 250MI0W	1.000	PC
R984	1105967016	RCF 2K7 OHM +5% 250MI0W	1.000	PC
R985	3093938016	RCF 22R0 OHM +5% 250MI0W	1.000	PC
R986	2046946016	RCF 2K2 OHM +5% 250MI0W	1.000	PC
R987	6044156016	RCF 560R0 OHM +5% 250MI0W	1.000	PC
R988	1106757016	RCF 1R0 OHM +5% 250MI0W	1.000	PC
R989	1106757016	RCF 1R0 OHM +5% 250MI0W	1.000	PC
R993	7043056016	RCF 5K6 OHM +5% 250MI0W	1.000	PC
Miscellaneous				
	J60530006000	HEAT SINK 16X7.5X30	1.000	PC
	J5636140010X	SCREW	1.000	PC
AC981	J44900000110	AC OUTLET A204D0043P DAERYUNG	1.000	PC
CA81	J3926100000X	X-C .1U PCX2 335M	1.000	PC
CN606	J4305100066X	CNT ASSY 3P 900MM SL 2.5MM #26	1.000	PC
FU981	J5502250320X	FUSE SB 5A/125V	1.000	PC
H012	J4305100026X	LUG WIRE 1P 200MM #24	1.000	PC
H020	J4305100026X	LUG WIRE 1P 200MM #24	1.000	PC
IC981	J2112505000X	IC KIA7805P TO-220	1.000	PC
JK601	J44001400000	TERMINAL SCREW 4P	1.000	PC
L601	J1451000030X	COIL-AF CHOKE .7UH	1.000	PC
L602	J1451000030X	COIL-AF CHOKE .7UH	1.000	PC
RL981	J5511300010X	RELAY 10A 12V	1.000	PC
WA601	J4420040200X	CNT ST 5267-02A	1.000	PC
WA602	J4420040200X	CNT ST 5267-02A	1.000	PC
WA603	J4420050300X	CNT ST 35313-0310	1.000	PC
WA625	J4420030440X	CNT PLUG 4P 2.0MM	1.000	PC
WA981	J4420060260X	CONNECTOR	1.000	PC
WA983	J4420060200X	CONNECTOR	1.000	PC
WA985	J4420060200X	CONNECTOR	1.000	PC
WA986	J4420040700X	CNT PLUG 2.5 7P	1.000	PC
T981	J2812220012X	ST'BY TRANS AVR510 120/60	1.000	PC
FH981	J4210020001X	FUSE CLIP 0.3T	1.000	PC
FH982	J4210020001X	FUSE CLIP 0.3T	1.000	PC
DCR600 SENSOR PCB				
	J4020100140X	PCB SENSOR 163*163 (1/30)FR1	1.000	PC
	J63330000600	SPONGE SENSOR H:25 13*9*10H	1.000	PC
CN901	J4305100077X	CNT ASSY 3P 120MM SL 2.5MM #24	1.000	PC
RM901	J2411220017X	REM 38HZ	1.000	PC

DCR600 PACKING/ACCESSORIES

Description	Part Number
DCR600 Remote Control	BE8N00
Cinema Propack™ 600 System Owner's Manual	AI5115
Foam End - Left	J97200026100
Foam End - Right	J97200026200
AM Antenna Loop	55127490
FM Antenna cable 75Ω	55127450
Five pairs of speaker cables, receiver to sats:	
Blue	sal5009-1
Yellow	sal5009-2
Green	sal5009-3
White	sal063-50
Red	sal063-51
15 foot single brown RCA cable, receiver to subwoofer	1655450011
5 foot triple, red/wht/yellow RCA cable, receiver to TV set	55176530
3 foot single orange RCA cable, receiver to DVD600	55186190
3 foot single yellow RCA cable, receiver to DVD600	55192120
1 single mini-phono jack for remote in/out	J94310004000

SONY

CXP82832/82840/82852/82860

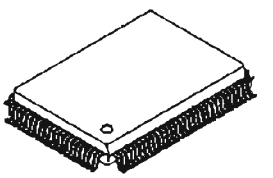
CMOS 8-bit Single Chip Microcomputer

Description

The CXP82832/82840/82852/82860 is a CMOS 8-bit single chip microcomputer integrating on a single chip an A/D converter, serial interface, timer/counter, time base timer, capture timer/counter, fluorescent display panel controller/driver, remote control reception circuit, and PWM output besides the basic configurations of 8-bit CPU, ROM, RAM, and I/O port.

The CXP82832/82840/82852/82860 also provides sleep/stop function that enables lower power consumption.

100 pin QFP (Plastic)



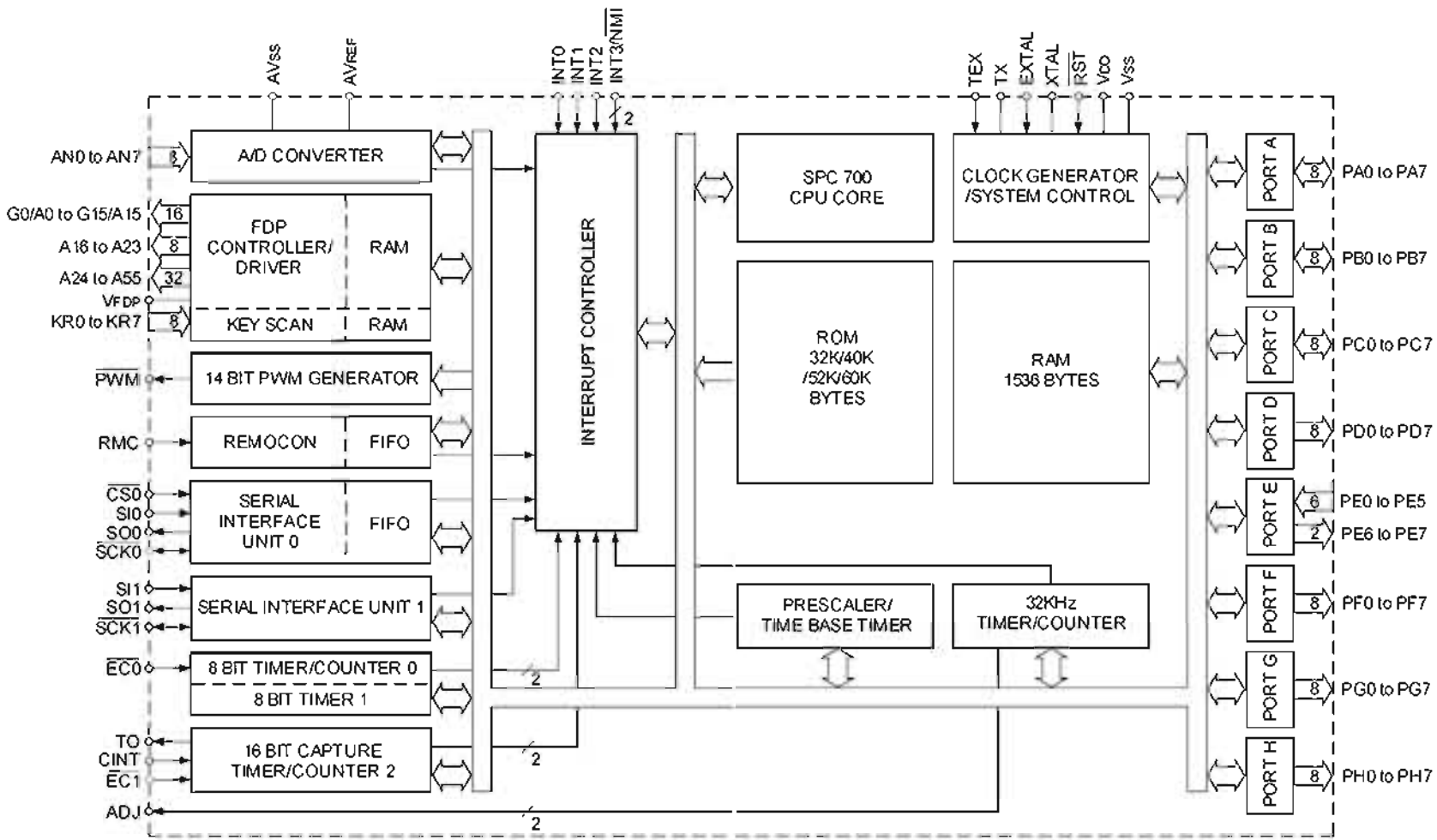
Structure

Silicon gate CMOS IC

Features

- Wide-range instruction system (213 instructions) to cover various types of data
  — 16-bit arithmetic/multiplication and division/boolean bit operation instructions

• Minimum instruction cycle	400ns at 10MHz operation (122µs at 32kHz operation)
• Incorporated ROM capacity	32K bytes (CXP82832) 40K bytes (CXP82840) 52K bytes (CXP82852) 60K bytes (CXP82860)
• Incorporated RAM capacity	1536 bytes (including fluorescent display area)
• Peripheral functions	
— A/D converter	8 bits, 8 channels, successive approximation method (Conversion time of 32µs/10MHz)
— Serial interface	8-bit, 8-stage FIFO incorporated (Auto transfer for 1 to 8 bytes), 1 channel 8-bit clock synchronized type, 1 channel
— Timers	8-bit timer, 8-bit timer/counter, 19-bit time base timer 16-bit capture timer/counter, 32kHz timer/counter
— Fluorescent display panel controller/driver	Supports the universal grid fluorescent display panel. High voltage drive output port of 56 pins (40V) Maximum of 640 segments display possible Display timing number of 1 to 20 Dimmer function Incorporated pull-down resistor (Mask option) Hardware key scan function (Maximum of 16 × 8 key matrix supportable)
— Remote control reception circuit	8-bit pulse measurement counter, 6-stage FIFO
— PWM output	14 bits, 1 channel
• Interruption	16 factors, 15 vectors, multi-interruption possible
• Standby mode	SLEEP/STOP
• Package	100-pin plastic QFP
• Piggyback/evaluation chip	CXP82800 100-pin ceramic QFP

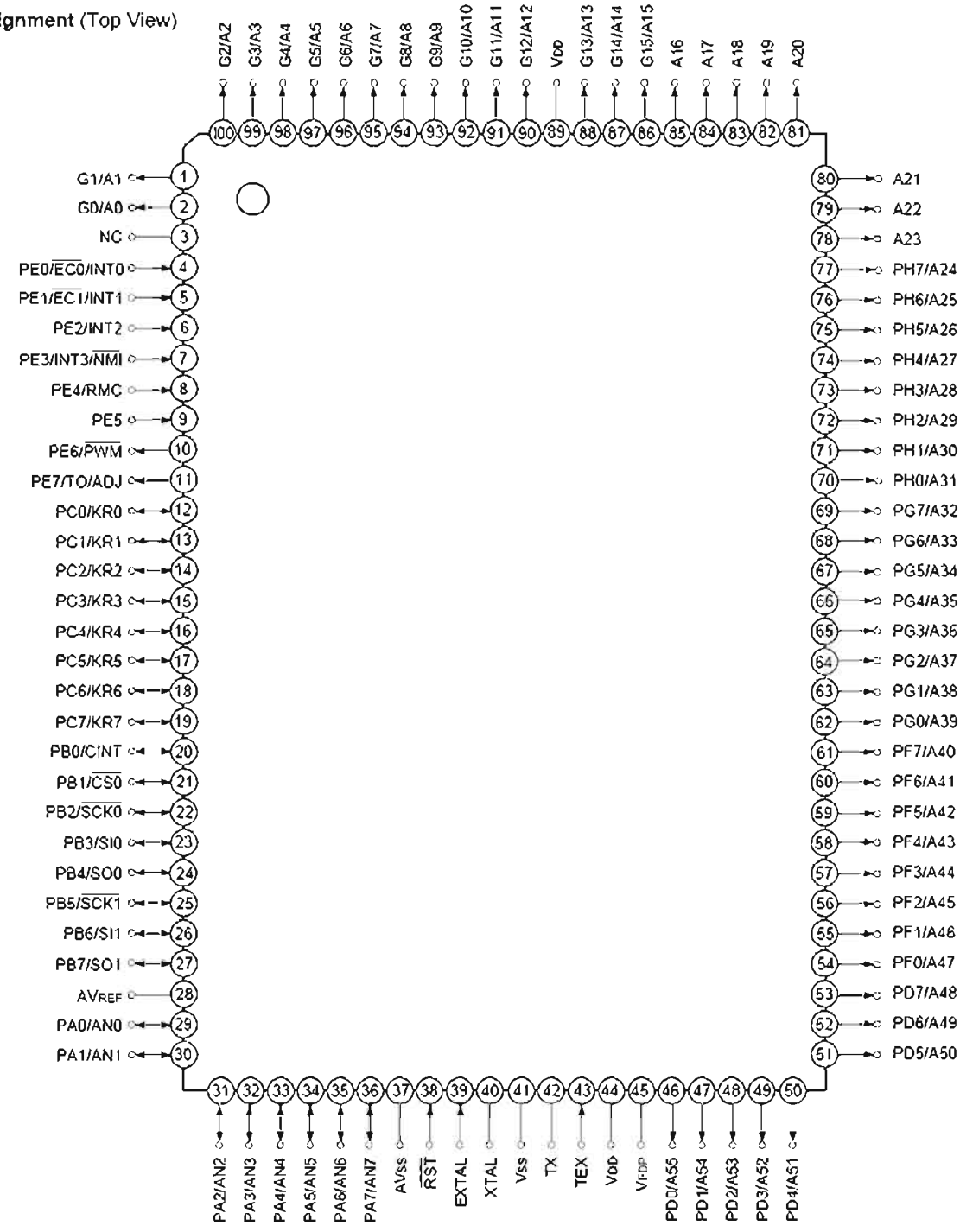

AVSS
AVREF
INT0
INT1
INT2
INT3/NMI
TEX
TX
EXTAL
XTAL
RST
VDD
VSS
AN0 to AN7
A/D CONVERTER
G0/A0 to G15/A15
A16 to A23
A24 to A55
VFDP
KR0 to KR7
FDP CONTROLLER/ DRIVER
RAM
KEY SCAN
RAM
PWM
14 BIT PWM GENERATOR
RMC
REMOCON
FIFO
CS0
SI0
SO0
SCK0
SERIAL INTERFACE UNIT 0
FIFO
SI1
SO1
SCK1
SERIAL INTERFACE UNIT 1
EC0
8 BIT TIMER/COUNTER 0
8 BIT TIMER 1
TO
CINT
EC1
16 BIT CAPTURE TIMER/COUNTER 2
ADJ
INTERRUPT CONTROLLER
SPC 700 CPU CORE
ROM 32K/40K /52K/60K BYTES
RAM 1536 BYTES
CLOCK GENERATOR /SYSTEM CONTROL
PRESCALER/ TIME BASE TIMER
32KHz TIMER/COUNTER
PORT A
PORT B
PORT C
PORT D
PORT E
PORT F
PORT G
PORT H
PA0 to PA7
PB0 to PB7
PC0 to PC7
PD0 to PD7
PE0 to PE5
PE6 to PE7
PF0 to PF7
PG0 to PG7
PH0 to PH7

CMOS 8-Bit Single Chip Microcomputer IC

CXP82860

SONY

Pin Assignment (Top View)



Note) 1. NC (Pin 3) must be connected to V_{DD}.

2. V_{DD} (Pins 44 and 89) must be connected to V_{DD}.

Pin code	I/O	Functions	
PA0/AN0 to PA7/AN7	I/O/ Analog input	(Port A) 8-bit I/O port. I/O can be set in a unit of single bits. Incorporation of the pull-up resistor can be set through the software in a unit of 4 bits. (8pins)	Analog inputs to A/D converter. (8 pins)
PB0/CINT	I/O/Input	(Port B) 8-bit I/O port. I/O can be set in a unit of single bits. Incorporation of the pull-up resistor can be set through the software in a unit of 4 bits. (8 pins)	Capture input to 16-bit timer/counter.
PB1/$\overline{CS0}$	I/O/Input		Chip select input for serial interface (CH0).
PB2/$\overline{SCK0}$	I/O/I/O		Serial clock I/O (CH0).
PB3/SI0	I/O/Input		Serial data input (CH0).
PB4/SO0	I/O/Output		Serial data output (CH0).
PB5/$\overline{SCK1}$	I/O/I/O		Serial clock I/O (CH1).
PB6/SI1	I/O/Input		Serial data input (CH1).
PB7/SO1	I/O/Output		Serial data output (CH1).
PC0/KR0 to PC7/KR7	I/O/Input	(Port C) 8-bit I/O port. I/O can be set in a unit of single bits. Can drive 12mA sync current. Incorporation of the pull-up resistor can be set through the software in a unit of 4 bits. (8 pins)	Serves as key return inputs when operating key scan with fluorescent display panel (FDP) segment signal. (8 pins)
PD0/A55 to PD7/A48	Output/Output	(Port D) 8-bit output port. (8 pins)	FDP segment signal (anode connection) outputs.
$\overline{PE0}$/INT0/ $\overline{EC0}$	Input/Input/Input	(Port E) 8-bit port. Lower 6 bits are for inputs; upper 2 bits are for outputs. (8 pins)	Inputs for external interruption request. (4 pins) — External event inputs for timer/counter. (2 pins)
$\overline{PE1}$/INT1/ $\overline{EC1}$	Input/Input/Input		
PE2/INT2	Input/Input		
$\overline{PE3}$/INT3/ $\overline{NMI}$	Input/Input/Input		Inputs for external interruption request. (4 pins) — Non-maskable interruption request input.
PE4/RMC	Input/Input		Remote control reception circuit input.
PE5	Input		
PE6/$\overline{PWM}$	Output/Output		14-bit PWM output.
PE7/TO/ADJ	Output/Output/ Output		Output for the 16-bit timer/counter rectangular waves, and 32kHz oscillation frequency division.
PF0/A47 to PF7/A40	Output/Output	(Port F) 8-bit output port. (8pins)	FDP segment signal (anode connection) outputs.

Pin code	I/O	Functions	
PG0/A39 to PG7/A32	Output/Output	(Port G) 8-bit output port. (8 pins)	FDP segment signal (anode connection) outputs. (8 pins)
PH0/A31 to PH7/A24	Output/Output	(Port H) 8-bit output port. (8 pins)	FDP segment signal (anode connection) outputs. (8 pins)
A16 to A23	Output	FDP segment signal (anode connection) outputs. (8 pins)	
G0/A0 to G15/A15	Output/Output	Outputs for FDP timing signals (grid connection)/segment signals (anode connection). (16 pins)	
V_{FDP}		FDP voltage supply when incorporated pull-down (PD) resistor is set by mask option.	
EXTAL	Input	Crystal connectors for system clock oscillation. When the clock is supplied externally, input to EXTAL; opposite phase clock should be input to XTAL.	
XTAL	Output		
TEX	Input	Crystal connectors for 32kHz timer/counter clock oscillation. For usage as event input, input to TEX, and open TX.	
TX	Output		
$\overline{RST}$	Input	Low-level active, system reset	
NC		NC. Under normal operation, connect to V_{DD}.	
AV_{REF}	Input	Reference voltage input for A/D converter.	
AV_{SS}		A/D converter GND.	
V_{DD}		Vcc supply.	
V_{SS}		GND.	

Features

- Fast Read Access Time – 120 ns, see AT27BV020 for Faster Speeds
- Dual Voltage Range Operation
  - Low Voltage Power Supply Range, 3.0V to 3.6V or Standard 5V ± 10% Supply Range
- Compatible with JEDEC Standard AT27C020
- Low Power CMOS Operation
  - 20 µA Max (Less than 1 µA Typical) Standby for V_{CC} = 3.6V
  - 29 mW Max Active at 5 MHz for V_{CC} = 3.6V
- JEDEC Standard Packages
  - 32-lead PLCC
  - 32-lead TSOP
  - 32-lead VSOP
- High Reliability CMOS Technology
  - 2,000V ESD Protection
  - 200 mA Latchup Immunity
- Rapid Programming Algorithm – 100 µs/Byte (Typical)
- Two-line Control
- CMOS and TTL Compatible Inputs and Outputs
  - JEDEC Standard for LVTTL
- Integrated Product Identification Code
- Industrial Temperature Range
- Green (Pb/Halide-free) Packaging Option

2-Megabit (256K x 8) Low Voltage OTP EPROM

AT27LV020A

1. Description

The AT27LV020A is a high-performance, low-power, low-voltage 2,097,152 bit one-time programmable read-only memory (OTP EPROM) organized as 256K by 8 bits. It requires only one supply in the range of 3.0 to 3.6V in normal read mode operation, making it ideal for fast, portable systems using battery power.

Atmel's innovative design techniques provide fast speeds that rival 5V parts while keeping the low power consumption of a 3V supply. At V_{CC} = 3.0V, any byte can be accessed in less than 120 ns. With a typical power dissipation of only 18 mW at 5 MHz and V_{CC} = 3.3V, the AT27LV020A consumes less than one fifth the power of a standard 5V EPROM. Standby mode supply current is typically less than 1 µA at 3.3V.

The AT27LV020A is available in industry-standard JEDEC approved one-time programmable (OTP) plastic PLCC, TSOP, and VSOP. All devices feature two-line control ($\overline{CE}$, $\overline{OE}$) to give designers the flexibility to prevent bus contention.

The AT27LV020A operating with V_{CC} at 3.0V produces TTL level outputs that are compatible with standard TTL logic devices operating at V_{CC} = 5.0V. The device is also capable of standard 5-volt operation making it ideally suited for dual supply range systems or card products that are pluggable in both 3-volt and 5-volt hosts.

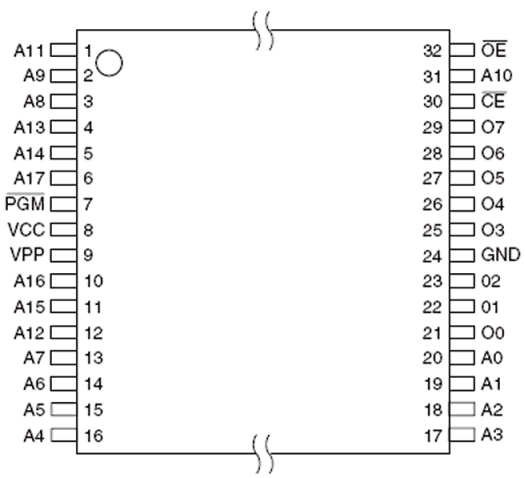
Atmel's AT27LV020A has additional features to ensure high quality and efficient production use. The Rapid Programming Algorithm reduces the time required to program the part and guarantees reliable programming. Programming time is typically only 100 µs/byte. The Integrated Product Identification Code electronically identifies the device and manufacturer. This feature is used by industry standard programming equipment to select the proper programming algorithms and voltages. The AT27LV020A programs exactly the same way as a standard 5V AT27C020 and uses the same programming equipment.

0549F–EPROM–05/05

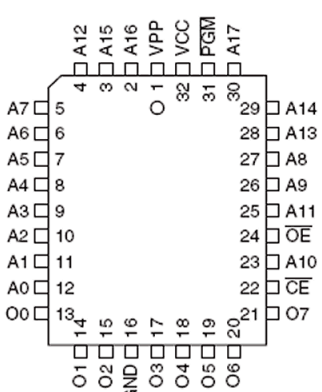
2. Pin Configurations

Pin Name	Function
A0 - A17	Addresses
O0 - O7	Outputs
$\overline{CE}$	Chip Enable
$\overline{OE}$	Output Enable
$\overline{PGM}$	Program Strobe
NC	No Connect

2.1 32-lead TSOP/VSOP (Type 1) Top View



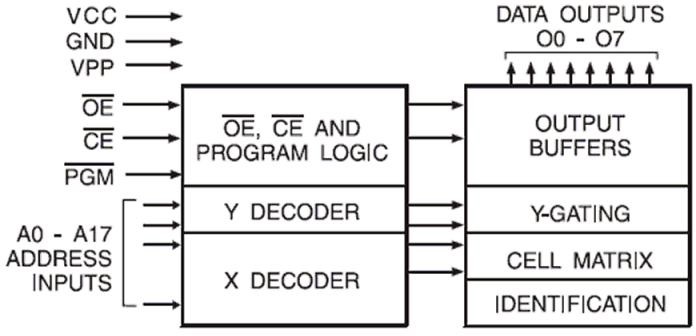
2.2 32-lead PLCC – Top View



3. System Considerations

Switching between active and standby conditions via the Chip Enable pin may produce transient voltage excursions. Unless accommodated by the system design, these transients may exceed datasheet limits, resulting in device non-conformance. At a minimum, a 0.1 µF high frequency, low inherent inductance, ceramic capacitor should be utilized for each device. This capacitor should be connected between the V_{CC} and Ground terminals of the device, as close to the device as possible. Additionally, to stabilize the supply voltage level on printed circuit boards with large EPROM arrays, a 4.7 µF bulk electrolytic capacitor should be utilized, again connected between the V_{CC} and Ground terminals. This capacitor should be positioned as close as possible to the point where the power supply is connected to the array.

4. Block Diagram



5. Absolute Maximum Ratings*

Temperature Under Bias	-40°C to +85°C
Storage Temperature	-65°C to +125°C
Voltage on any Pin with Respect to Ground	-2.0V to +7.0V(1)
Voltage on A9 with Respect to Ground	-2.0V to +14.0V(1)
V_{PP} Supply Voltage with Respect to Ground	-2.0V to +14.0V(1)

*NOTICE: Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Notes: 1. Minimum voltage is -0.6V DC which may undershoot to -2.0V for pulses of less than 20 ns. Maximum output pin voltage is V_{CC} + 0.75V DC which may be exceeded if certain precautions are observed (consult application notes) and which may overshoot to +7.0V for pulses of less than 20 ns.

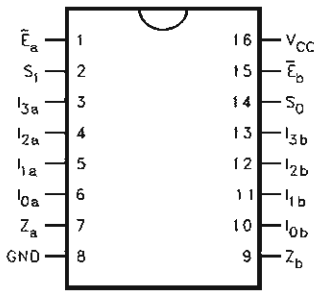
74VHC153MX

Dual 4-Input Multiplexer

Pin Descriptions

Pin Names	Description
I_{0a}–I_{3a}	Side A Data Inputs
I_{0b}–I_{3b}	Side B Data Inputs
S_0, S_1	Common Select Inputs
$\overline{E}_a$	Side A Enable Input
$\overline{E}_b$	Side B Enable Input
Z_a	Side A Output
Z_b	Side B Output

Connection Diagram



Functional Description

The VHC153 is a dual 4-input multiplexer. It can select two bits of data from up to four sources under the control of the common Select inputs (S_0, S_1). The two 4-input multiplexer circuits have individual active-LOW Enables ($\overline{E}_a$, $\overline{E}_b$) which can be used to strobe the outputs independently. When the Enables ($\overline{E}_a$, $\overline{E}_b$) are HIGH, the corresponding outputs (Z_a, Z_b) are forced LOW. The VHC153 is the logic implementation of a 2-pole, 4-position switch, where the position of the switch is determined by the logic levels supplied to the Select inputs. The logic equations for the outputs are shown below.

$$Z_a = \overline{E}_a \cdot (I_{0a} \cdot \overline{S}_1 \cdot \overline{S}_0 + I_{1a} \cdot \overline{S}_1 \cdot S_0 + I_{2a} \cdot S_1 \cdot S_0 + I_{3a} \cdot S_1 \cdot S_0)$$

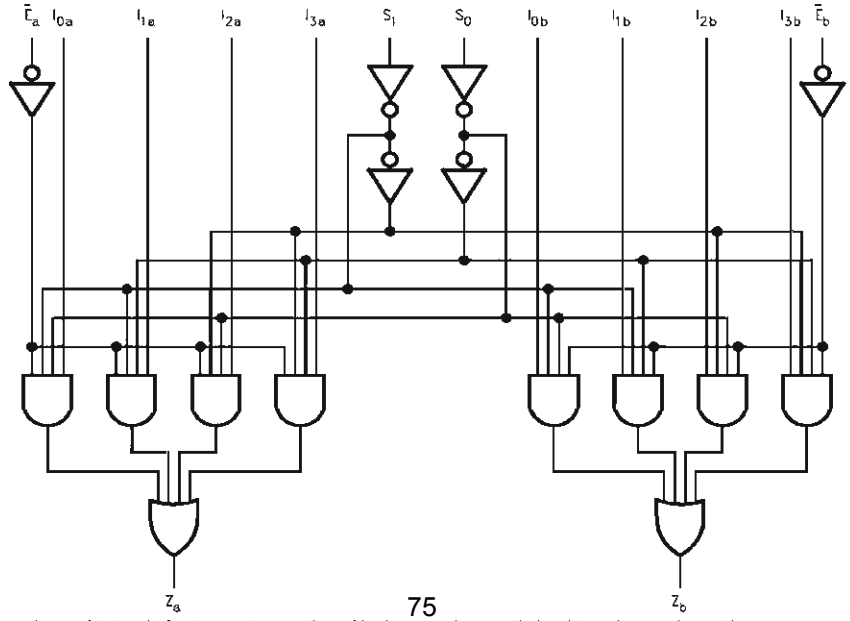
$$Z_b = \overline{E}_b \cdot (I_{0b} \cdot \overline{S}_1 \cdot \overline{S}_0 + I_{1b} \cdot \overline{S}_1 \cdot S_0 + I_{2b} \cdot S_1 \cdot S_0 + I_{3b} \cdot S_1 \cdot S_0)$$

Truth Table

Select Inputs		Inputs (a or b)					Output
S_0	S_1	$\overline{E}$	I_0	I_1	I_2	I_3	Z
X	X	H	X	X	X	X	L
L	L	L	L	X	X	X	L
L	L	L	H	X	X	X	H
H	L	L	X	L	X	X	L
H	L	L	X	H	X	X	H
L	H	L	X	X	L	X	L
L	H	L	X	X	H	X	H
H	H	L	X	X	X	L	L
H	H	L	X	X	X	H	H

H = HIGH Voltage Level
L = LOW Voltage Level
X = Immaterial

Logic Diagram



Please note that this diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

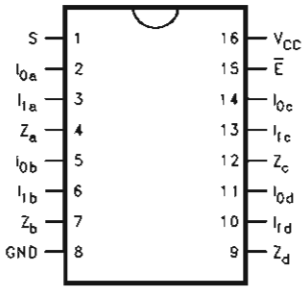
74VHC157MX

Quad 2-Input Multiplexer

Pin Configuration

Pin Names	Description
I_{0a}–I_{0d}	Source 0 Data Inputs
I_{1a}–I_{1d}	Source 1 Data Inputs
$\overline{E}$	Enable Input
S	Select Input
Z_a–Z_d	Outputs

Connection Diagram



Truth Table

Inputs				Outputs
$\overline{E}$	S	I_0	I_1	Z
H	X	X	X	L
L	H	X	L	L
L	H	X	H	H
L	L	L	X	L
L	L	H	X	H

H = HIGH Voltage Level
L = LOW Voltage Level
X = Immaterial

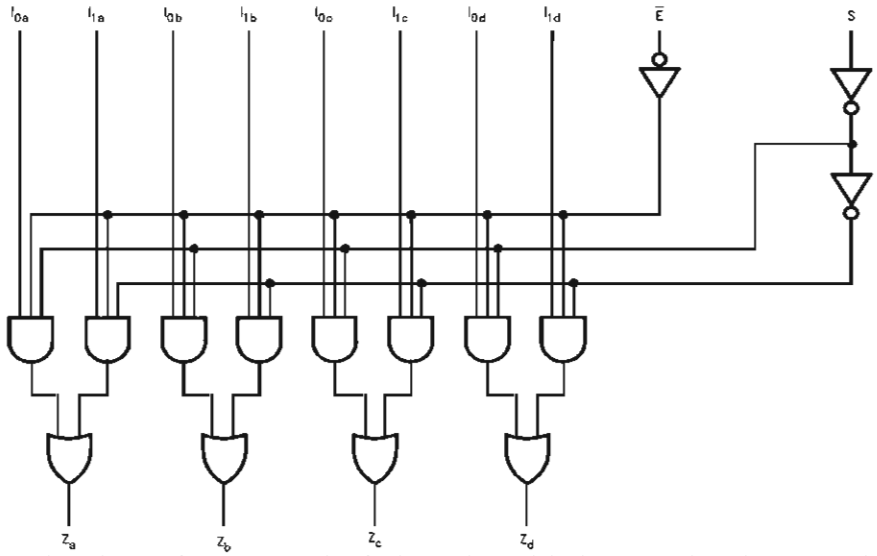
Functional Description

The VHC157 is a quad 2-input multiplexer. It selects four bits of data from two sources under the control of a common Select input (S). The Enable input ($\overline{E}$) is active-LOW. When $\overline{E}$ is HIGH, all of the outputs (Z) are forced LOW regardless of all other inputs. The VHC157 is the logic implementation of a 4-pole, 2-position switch where the position of the switch is determined by the logic levels supplied to the Select input. The logic equations for the outputs are shown below:

$$Z_a = \overline{E} \cdot (I_{1a} \cdot S + I_{0a} \cdot \overline{S})$$
$$Z_b = \overline{E} \cdot (I_{1b} \cdot S + I_{0b} \cdot \overline{S})$$
$$Z_c = \overline{E} \cdot (I_{1c} \cdot S + I_{0c} \cdot \overline{S})$$
$$Z_d = \overline{E} \cdot (I_{1d} \cdot S + I_{0d} \cdot \overline{S})$$

A common use of the VHC157 is the moving of data from two groups of registers to four common output busses. The particular register from which the data comes is determined by the state of the Select input. A less obvious use is as a function generator. The VHC157 can generate any four of the sixteen different functions of two variables with one variable common. This is useful for implementing gating functions.

Logic Diagram

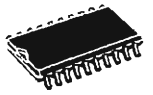


Please note that this diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

74VHC574

OCTAL D-TYPE FLIP FLOP WITH 3 STATE OUTPUTS NON INVERTING

- HIGH SPEED:
- f_{MAX} = 180 MHz (TYP.) at V_{CC} = 5V
- LOW POWER DISSIPATION:
  I_{CC} = 4 μA (MAX.) at T_A=25°C
- HIGH NOISE IMMUNITY:
  $V_{NIH} = V_{NIL}$ = 28% V_{CC} (MIN.)
- POWER DOWN PROTECTION ON INPUTS
- SYMMETRICAL OUTPUT IMPEDANCE:
  $|I_{OH}| = I_{OL}$ = 8 mA (MIN)
- BALANCED PROPAGATION DELAYS:
  $t_{PLH} \cong t_{PHL}$
- OPERATING VOLTAGE RANGE:
  V_{CC}(OPR) = 2V to 5.5V
- PIN AND FUNCTION COMPATIBLE WITH 74 SERIES 574
- IMPROVED LATCH-UP IMMUNITY
- LOW NOISE: V_{OLP} = 0.9V (MAX.)



SOP

TSSOP

ORDER CODES

PACKAGE	TUBE	T & R
SOP	74VHC574M	74VHC574MTR
TSSOP		74VHC574TTR

DESCRIPTION

The 74VHC574 is an advanced high-speed CMOS OCTAL D-TYPE FLIP FLOP with 3 STATE OUTPUTS NON INVERTING fabricated with sub-micron silicon gate and double-layer metal wiring C^2MOS technology.

These 8 bit D-Type flip-flop is controlled by a clock input (CK) and an output enable input ($\overline{OE}$).

On the positive transition of the clock, the Q outputs will be set to the logic states that were setup at the D inputs.

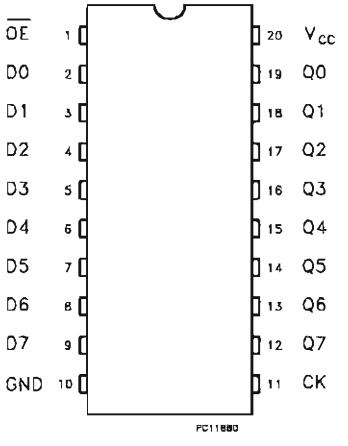
While the ($\overline{OE}$) input is low, the 8 outputs will be in a normal logic state (high or low logic level) and while high level the outputs will be in a high impedance state.

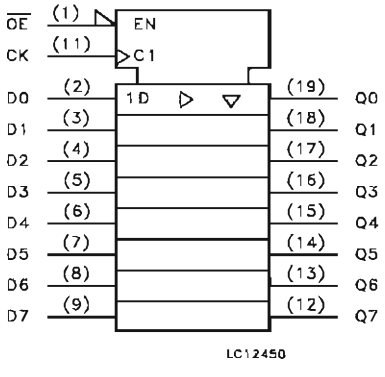
The Output control does not affect the internal operation of flip flop; that is, the old data can be retained or the new data can be entered even while the outputs are off.

Power down protection is provided on all inputs and 0 to 7V can be accepted on inputs with no regard to the supply voltage. This device can be used to interface 5V to 3V.

All inputs and outputs are equipped with protection circuits against static discharge, giving them 2KV ESD immunity and transient excess voltage.

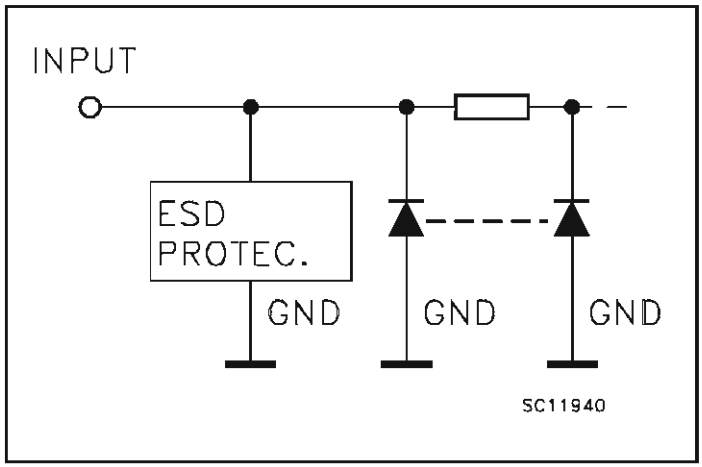
PIN CONNECTION AND IEC LOGIC SYMBOLS





74VHC574

INPUT EQUIVALENT CIRCUIT



PIN DESCRIPTION

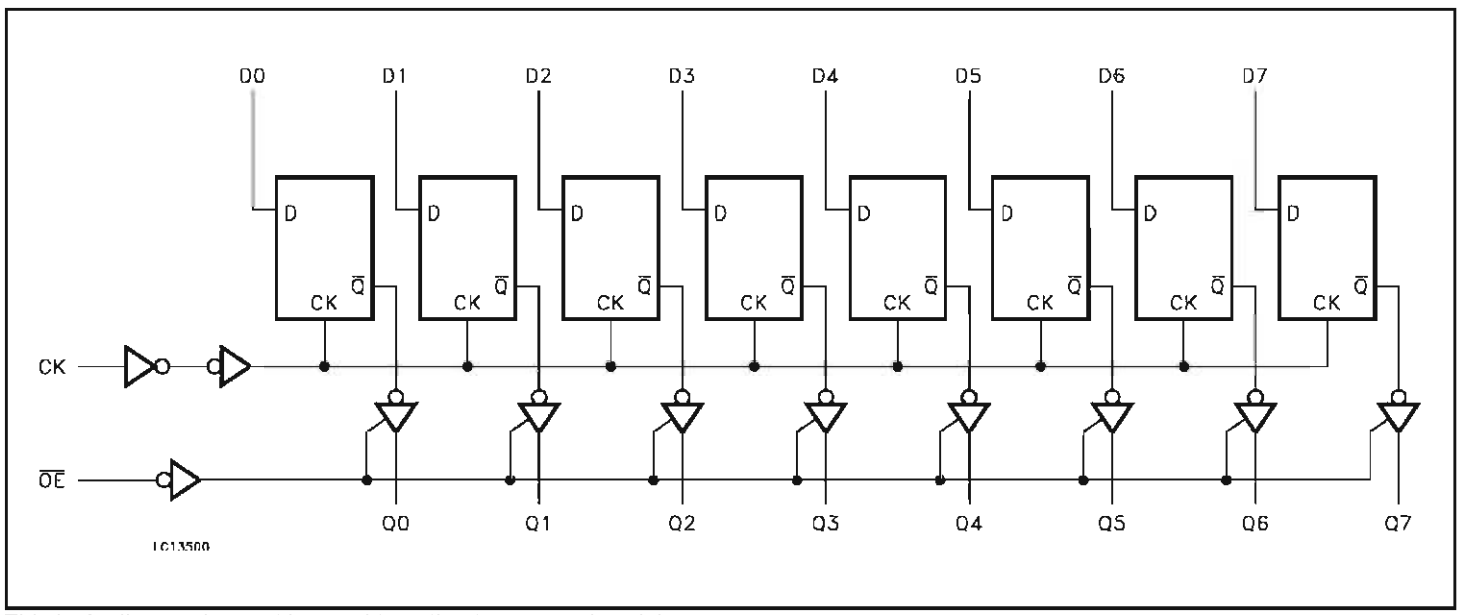
PIN No	SYMBOL	NAME AND FUNCTION
1	$\overline{OE}$	3-State Output Enable Input (Active LOW)
2, 3, 4, 5, 6, 7, 8, 9	D0 to D7	Data Inputs
12, 13, 14, 15, 16, 17, 18, 19	Q0 to Q7	3-State Outputs
11	CK	Clock Input (LOW-to-HIGH Edge Triggered)
10	GND	Ground (0V)
20	V_{CC}	Positive Supply Voltage

TRUTH TABLE

INPUTS			OUTPUT
$\overline{OE}$	CK	D	Q
H	X	X	Z
L	↓	X	NO CHANGE
L	↑	L	L
L	↑	H	H

X : Don't Care
Z : High Impedance

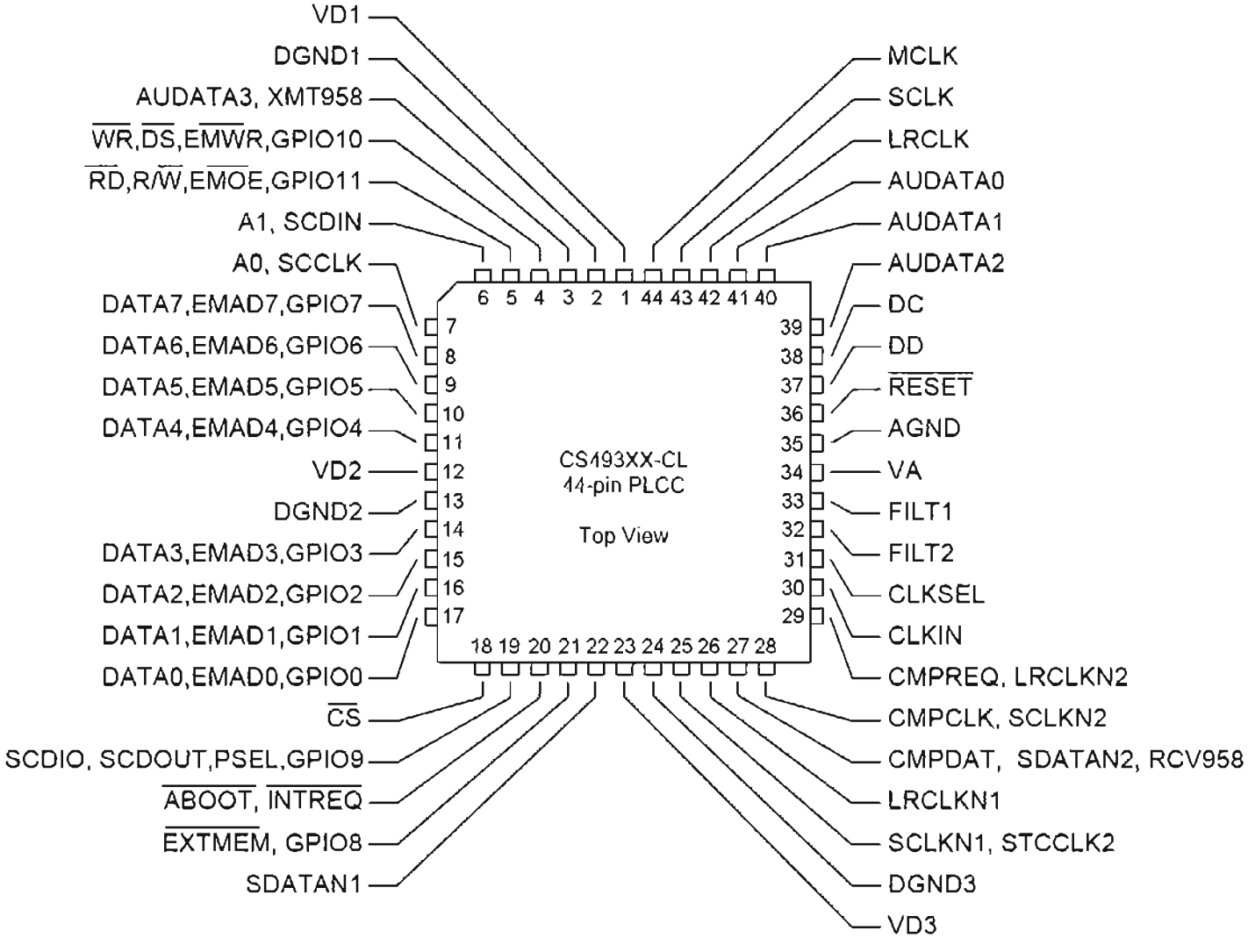
LOGIC DIAGRAM



This logic diagram has not be used to estimate propagation delays

24-Bit Multi Standard Audio DSP Decoder

CS493263

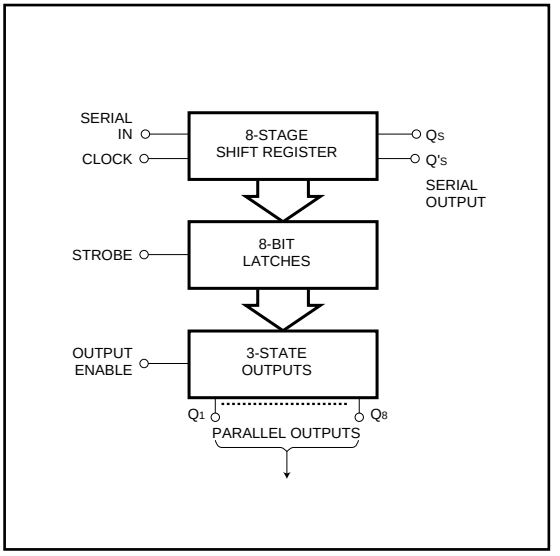


8-bit compatible shift / store register

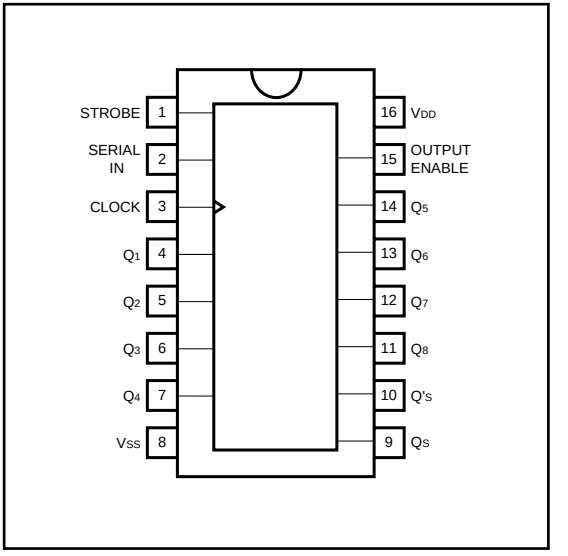
BU4094BC / BU4094BCF / BU4094BCFV

The BU4094BC, BU4094BCF, and BU4094BCFV are shift / store registers, each consisting of an 8-bit register and an 8-bit latch.
As the data in the shift register can be latched by an asynchronous strobe input, it is possible to hold the output in the data transfer mode.
The tri-state parallel output can be connected directly with an 8-bit bus line.
These registers are suitable for in-line / parallel data conversion, data receivers and other similar applications.

●Logic circuit diagram



●Block diagram



●Truth table

CLOCK	OUTPUT ENABLE	STROBE	SERIAL IN	Parallel output		Serial output	
				Q_1	Q_n	Q_S	Q'_S
↑	H	H	L	L	Q_{n-1}	Q_7	NC
↑	H	H	H	H	Q_{n-1}	Q_7	NC
↑	H	L	X	NC	NC	Q_7	NC
↑	L	X	X	Z	Z	Q_7	NC
↓	H	X	X	NC	NC	NC	Q_S
↓	L	X	X	Z	Z	NC	Q_S

NC: No Change Z: High Impedance X: Irrelevant

CS4391

24-Bit, 192 kHz Stereo DAC with Volume Control

Features

- Complete Stereo DAC System: Interpolation, D/A, Output Analog Filtering
- 108 dB Dynamic Range
- 94 dB THD+N
- Direct Stream Digital Mode
- Low Clock Jitter Sensitivity
- +5 V to +3 V Power Supply
- ATAPI Mixing
- On-Chip Digital De-emphasis for 32, 44.1, and 48 kHz
- Volume Control with Soft Ramp
  - 119 dB Attenuation
  - 1 dB Step Size
  - Zero Crossing Click-Free Transitions
- 36 mW with 3 V supply
- Direct Interface with 5 V to 1.8 V Logic

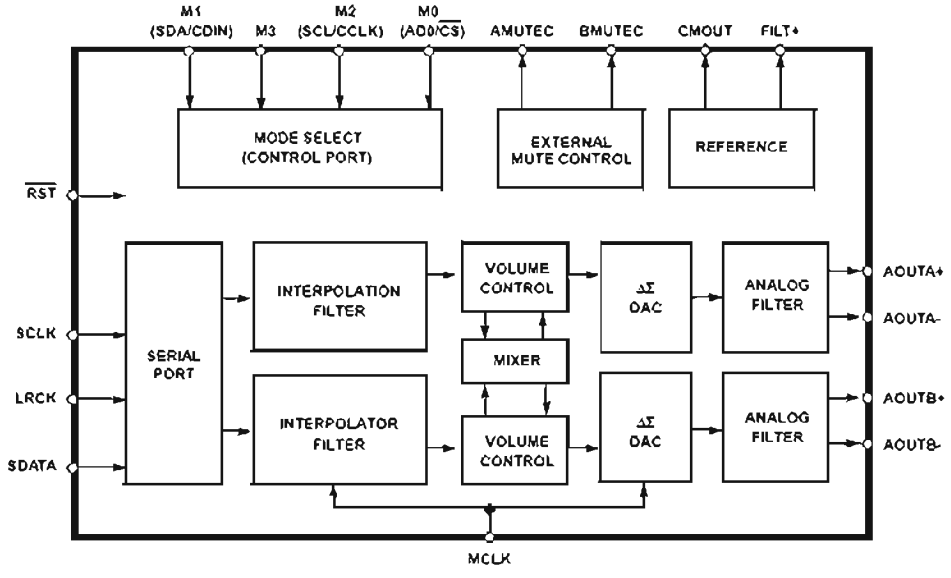
Description

The CS4391 is a complete stereo digital-to-analog system including digital interpolation, fourth-order delta-sigma digital-to-analog conversion, digital de-emphasis, volume control, channel mixing and analog filtering. The advantages of this architecture include: ideal differential linearity, no distortion mechanisms due to resistor matching errors, no linearity drift over time and temperature and a high tolerance to clock jitter.

The CS4391 accepts PCM data at sample rates from 2 kHz to 192 kHz, DSD audio data, consumes very little power and operates over a wide power supply range. These features are ideal for DVD, A/V receivers, CD and set-top box systems.

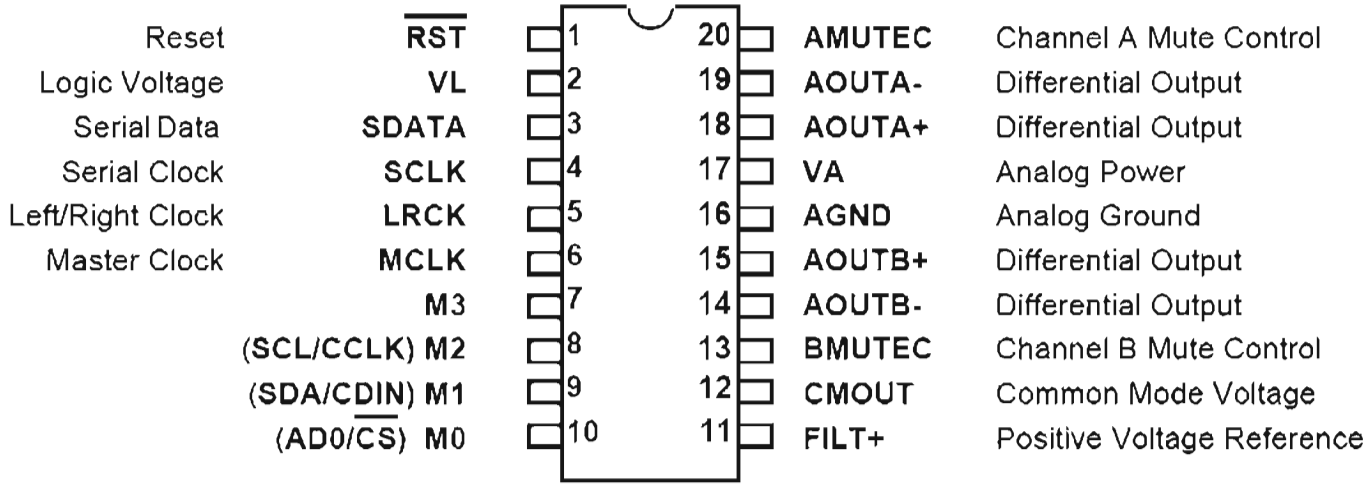
ORDERING INFORMATION

CS4391-KZ	20-pin TSSOP	-10 to 70 °C
CDB4391	Evaluation Board	

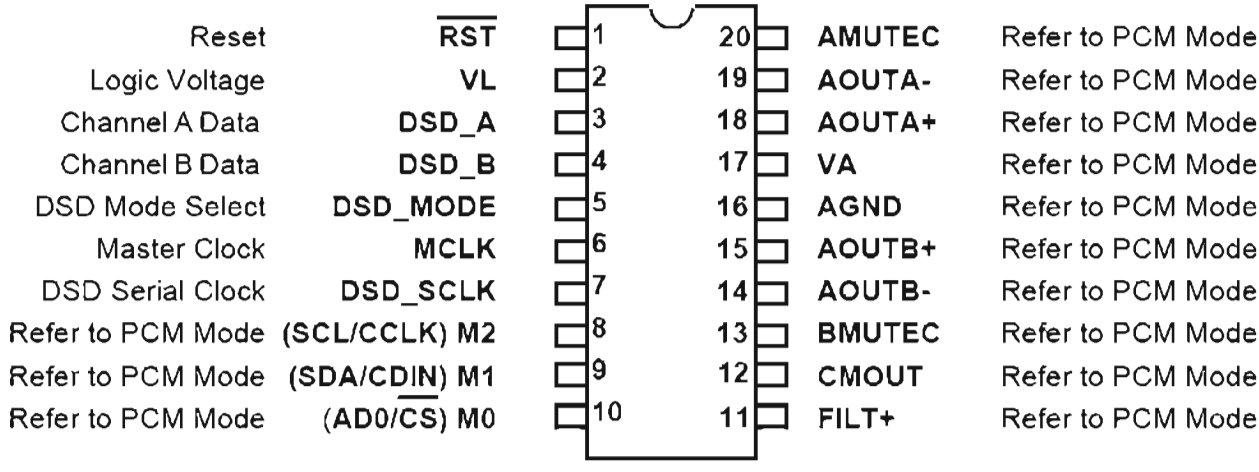


CS4391

PIN DESCRIPTION - PCM DATA MODE



PIN DESCRIPTION - DSD MODE



M74HCU04

HEX INVERTER (SINGLE STAGE)

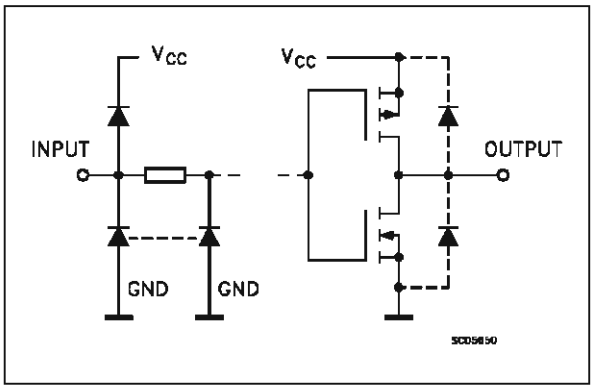
DESCRIPTION

The M54/74HCU04 is a high speed CMOS HEX INVERTER (SINGLE STAGE) fabricated in silicon gate C^2MOS technology. It has the same high speed performance of LSTTL combined with true CMOS low power consumption.

As the intrnal circuit is composed of a single stage inverter, it can be used in crystal oscillator.

All inputs are equipped with circuits against static discharge and transient excess voltage.

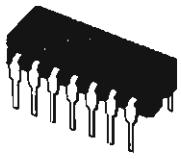
INPUT AND OUTPUT EQUIVALENT CIRCUIT



PIN DESCRIPTION

PIN No	SYMBOL	NAME AND FUNCTION
1, 3, 5, 9, 11, 13	1A to 6A	Data Inputs
2, 4, 6, 8, 10, 12	1Y to 6Y	Data Outputs
7	GND	Ground (0V)
14	Vcc	Positive Supply Voltage

B1R
(Plastic Package)



F1R
(Ceramic Package)

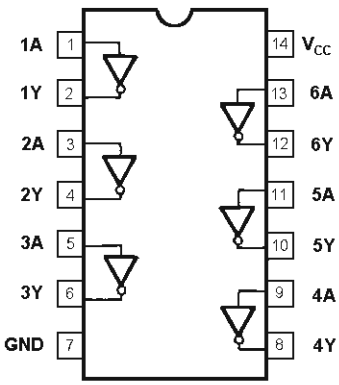
M1R
(Micro Package)

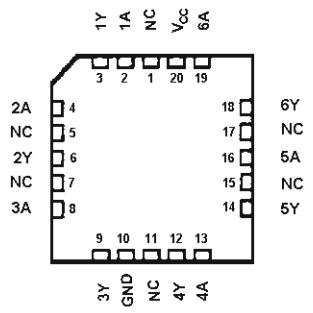
C1R
(Chip Carrier)

ORDER CODES :

M54HCU04F1R M74HCU04M1R
M74HCU04B1R M74HCU04C1R

PIN CONNECTIONS (top view)





NC =
No Internal
Connection

CS5360

24-Bit Stereo A/D Converter for Digital Audio

Features

- 24 Bit Conversion
- 105 dB Dynamic Range
- -95 dB THD+N
- 128X Oversampling
- Fully Differential Inputs
- Linear Phase Digital Anti-Alias Filtering
  - 21.7 kHz passband (Fs = 48kHz)
  - 85 dB stop band attenuation
  - 0.0025 dB pass band ripple
- High Pass Filter - DC Offset Removal
- Peak Signal Level Detector
  - High Resolution and Bar Graph Modes
- Pin Compatible with CS5334 and CS5335

Description

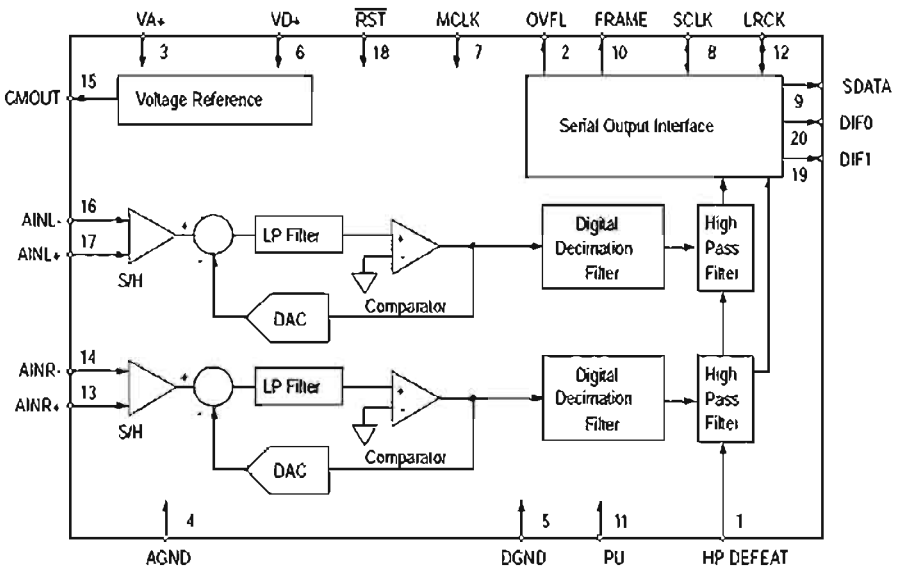
The CS5360 is a 2-channel, single +5 V supply, 24-bit analog-to-digital converter for digital audio systems. The CS5360 performs sampling, analog-to-digital conversion and anti-alias filtering, generating 24-bit values for both left and right inputs in serial form. The output word rate can be up to 50 kHz per channel.

The CS5360 uses 4th-order, delta-sigma modulation with 128X oversampling followed by digital filtering and decimation, which removes the need for an external anti-alias filter. This ADC uses a differential architecture which provides excellent noise rejection.

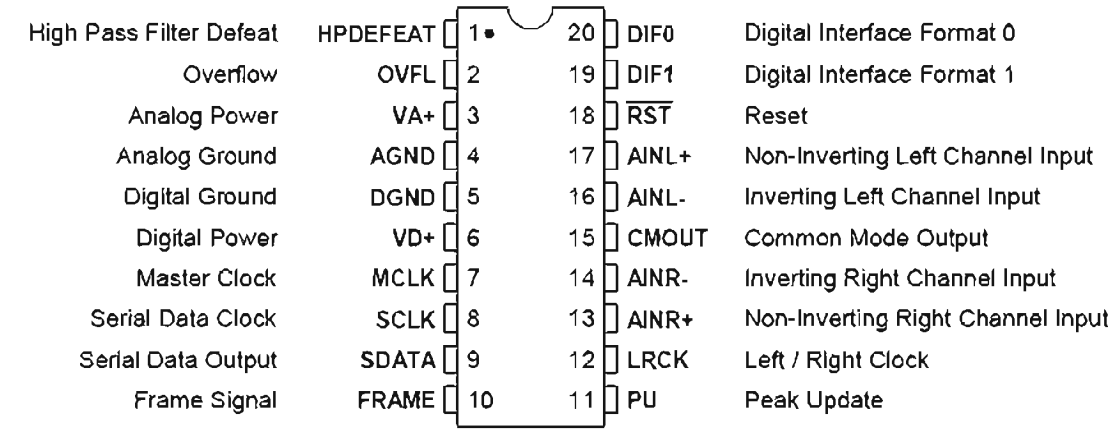
The CS5360 has a filter passband to 21.7 kHz. The filter has linear phase, 0.0025 dB passband ripple, and >85 dB stopband rejection. An on-chip high pass filter is also included to remove DC offsets.

ORDERING INFORMATION

CS5360-KS	-10° to 70°C	20-pin Plastic SSOP
CS5360-BS	-40° to 85°C	20-pin Plastic SSOP



5. PIN DESCRIPTIONS



High Pass Filter Defeat - HP DEFEAT

Pin 1, Input

Function

A high logic level on this pin disables the digital high pass filter. A low logic level on this pin enables the high pass filter.

Overflow - $\overline{\text{OVFL}}$

Pin 2, Input

Function

Overflow indicates analog input overrange, for both the Left and Right channels, since the last update request on the PEAK UPDATE (PU) pin. A value of 1 in the register indicates an overrange condition. The left channel information is output on OVFL during the left channel portion of LRCK. The right channel information is available on OVFL during the right channel portion of LRCK. The registers are updated with a high to low transition on the PEAK UPDATE pin. A 47 kΩ pull-down resistor on this pin will set the CS5360 in Master Mode.

Positive Analog Power - VA+

Pin 3, Input

Function:

Positive analog supply. Nominally +5 volts.

Analog Ground - AGND

Pin 4, Input

Function:

Analog ground reference.

DGND - Digital Ground

Pin 5, Input

Function:

Digital ground reference.

Positive Digital Power - VD+

Pin 6, Input

Function:

Positive digital supply. Nominally +5 volts.

Master Clock - MCLK

Pin 7, Input

Function:

Clock source for the delta-sigma modulator sampling and digital filters. In Master Mode, the frequency of this clock must be 256x the output sample rate, Fs. In Slave Mode, the frequency of this clock must be either 256x, 384x or 512x Fs.

Serial Data Clock - SCLK

Pin 8, Input/Output

Function:

Clocks the individual bits of the serial data out from the SDATA pin. The relationship between LRCK, SCLK and SDATA is controlled by DIF0 and DIF1.In Master Mode, SCLK is an output clock with a frequency of 64x the output sample rate, Fs.In Slave Mode, SCLK is an input.

Serial Data Output - SDATA

Pin 9, Output

Function:

Two's complement MSB-first serial data of 24 bits is output on this pin. Included in the serial data output is the 8-bit Input Signal Level Bits. The data is clocked out via the SCLK clock and the channel is determined by LRCK. The relationship between LRCK, SCLK and SDATA is controlled by DIF0 and DIF1.

Peak Update - PU

Pin 11, Input

Function:

Transfers the Peak Signal Level contents of the Active Registers to the Output Registers on a high to low transition on this pin. This transition will also reset the Active register.

Frame Signal - FRAME

Pin 10, Output

Function:

Frames the Peak Signal Level (PSL) Bits. FRAME goes high coincident with the leading edge of the first PSL bit and falls coincident with the trailing edge of the last PSL bit as shown in Figures 8-10. A 47 kΩ pull-down resistor on this pin will set the Peak Signal Level Monitoring format to "Bar Graph" mode.

Left/Right Clock - LRCK

Pin 12, Input/Output

Function:

LRCK determines which channel, left or right, is to be output on SDATA. The relationship between LRCK, SCLK and SDATA is controlled by DIF0 and DIF1. Although the outputs for each channel are transmitted at different times, Left/Right pairs represent simultaneously sampled analog inputs. In Master Mode, LRCK is an output clock whose frequency is equal to the output sample rate, Fs. In Slave Mode, LRCK is an input clock whose frequency must be equal to Fs.

Differential Right Channel Analog Input - AINR+, AINR-

Pin 13 and Pin 14, Input

Function.

Analog input connections of the right channel differential inputs. Typically 2 Vrms differential (1Vrms for each input pin) for a full-scale analog input signal.

Common Mode Output - CMOUT

Pin 15, Output

Function:

This output, nominally 2 2 V, can be used to bias the analog input circuitry to the common mode voltage of the CS5360 CMOUT is not buffered and the maximum current is 10 µA.

Differential Left Channel Analog Input - AINL+, AINL-

Pin 16 and Pin 17, Input

Function:

Analog input connections of the left channel differential inputs. Typically 2 Vrms differential (1Vrms for each input pin) for a full-scale analog input signal.

Reset - $\overline{\text{RST}}$

Pin 18, Input

Function:

A low logic level on this pin activates Reset.

Digital Interface Format - DIF0, DIF1

Pins 19 and 20, Input

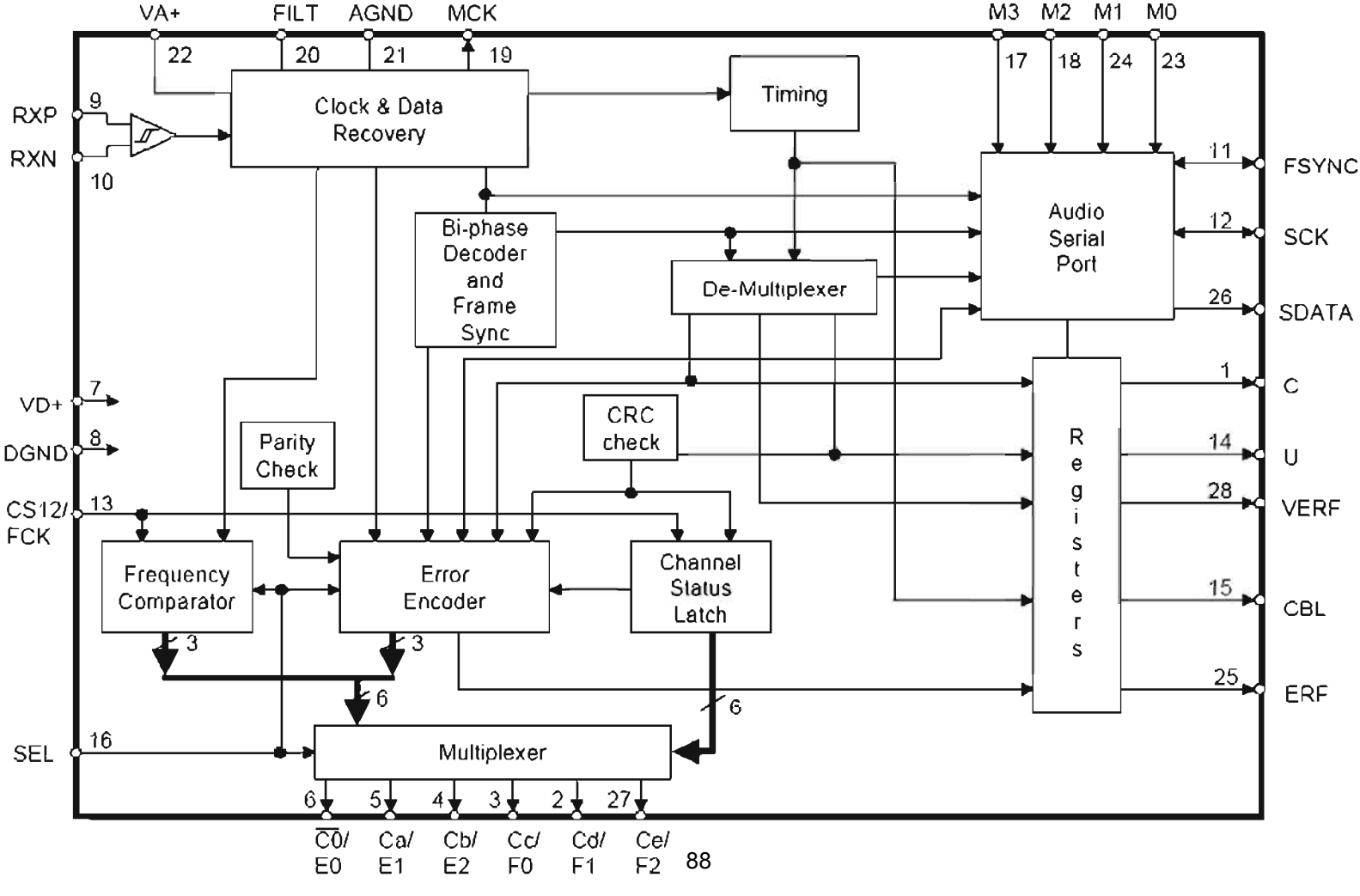
Function.

These two pins select one of 3 digital interface formats or power-down. The format determines the relationship between SCLK, LRCK and SDATA. The formats are detailed in Figures 8-10.

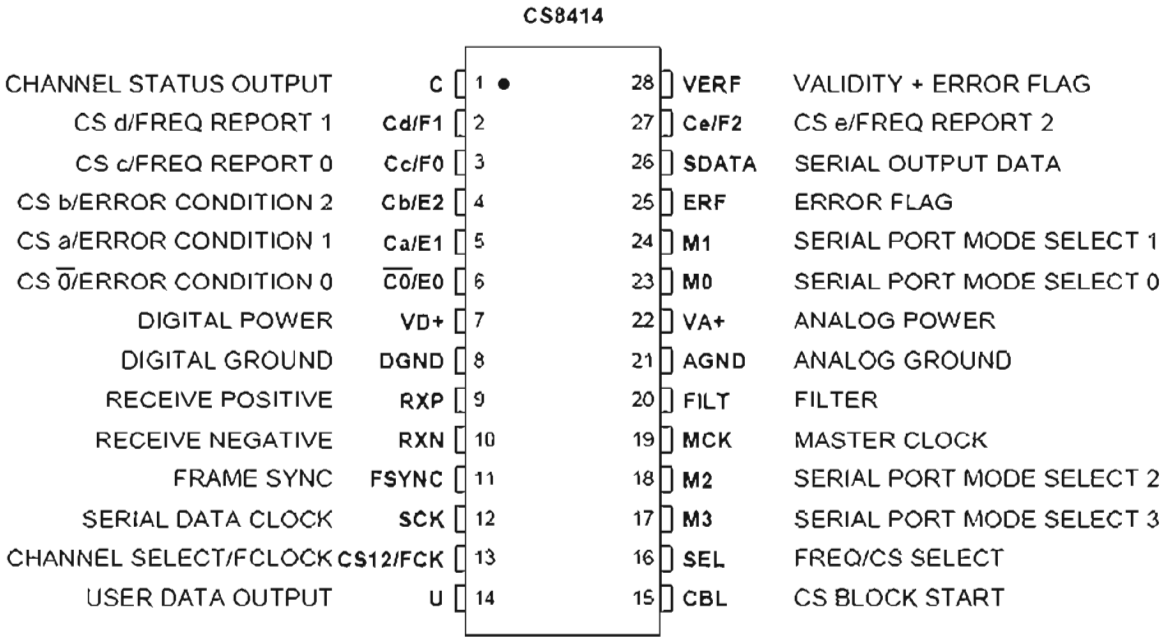
CS8414

96 kHz Digital Audio Receiver

CHANNEL STATUS OUTPUT	C	1	28	VERF	VALIDITY + ERROR FLAG
CS d/FREQ REPORT 1	Cd/F1	2	27	Ce/F2	CS e/FREQ REPORT 2
CS c/FREQ REPORT 0	Cc/F0	3	26	SDATA	SERIAL OUTPUT DATA
CS b/ERROR CONDITION 2	Cb/E2	4	25	ERF	ERROR FLAG
CS a/ERROR CONDITION 1	Ca/E1	5	24	M1	SERIAL PORT MODE SELECT 1
CS $\overline{0}$/ERROR CONDITION 0	$\overline{C0}$/E0	6	23	M0	SERIAL PORT MODE SELECT 0
DIGITAL POWER	VD+	7	22	VA+	ANALOG POWER
DIGITAL GROUND	DGND	8	21	AGND	ANALOG GROUND
RECEIVE POSITIVE	RXP	9	20	FILT	FILTER
RECEIVE NEGATIVE	RXN	10	19	MCK	MASTER CLOCK
FRAME SYNC	FSYNC	11	18	M2	SERIAL PORT MODE SELECT 2
SERIAL DATA CLOCK	SCK	12	17	M3	SERIAL PORT MODE SELECT 3
CHANNEL SELECT/FCLOCK	CS12/FCK	13	16	SEL	FREQ/CS SELECT
USER DATA OUTPUT	U	14	15	CBL	CS BLOCK START



PIN DESCRIPTIONS: CS8414



Power Supply Connections

VD+ - Positive Digital Power, PIN 7.

Positive supply for the digital section. Nominally +5 volts.

VA+ - Positive Analog Power, PIN 22.

Positive supply for the analog section. Nominally +5 volts.

DGND - Digital Ground, PIN 8.

Ground for the digital section. DGND should be connected to same ground as AGND.

AGND - Analog Ground, PIN 21.

Ground for the analog section. AGND should be connected to same ground as DGND.

Audio Output Interface

SCK - Serial Clock, PIN 12.

Serial clock for SDATA pin which can be configured (via the M0, M1, M2, and M3 pins) as an input or output, and can sample data on the rising or falling edge. As an output, SCK will generate 32 clocks for every audio sample. As an input, 32 SCK periods per audio sample must be provided in all normal modes.

FSYNC - Frame Sync, PIN 11.

Delineates the serial data and may indicate the particular channel, left or right, and may be an input or output. The format is based on M0, M1, M2, and M3 pins.

SDATA - Serial Data, PIN 26.

Audio data serial output pin.

M0, M1, M2, M3 - Serial Port Mode Select, PINS 23, 24, 18, 17.

Selects the format of FSYNC and the sample edge of SCK with respect to SDATA. M3 selects between eight normal modes (M3 = 0), and six special modes (M3 = 1).

Control Pins

VERF - Validity + Error Flag, PIN 28.

A logical OR'ing of the validity bit from the received data and the error flag. May be used by interpolation filters to interpolate through errors.

U - User Bit, PIN 14.

Received user bit serial output port. FSYNC may be used to latch this bit externally. (Except in I^2S modes when this pin is updated on the active edge of FSYNC.)

C - Channel Status Output, PIN 1.

Received channel status bit serial output port. FSYNC may be used to latch this bit externally. (Except in I^2S modes when this pin is updated on the active edge of FSYNC.)

CBL - Channel Status Block Start, PIN 15.

The channel status block output is high for the first four bytes of channel status and low for the last 20 bytes.

SEL - Select, PIN 16.

Control pin that selects either channel status information (SEL = 1) or error and frequency information (SEL = 0) to be displayed on six of the following pins.

$\overline{C0}$, Ca, Cb, Cc, Cd, Ce - Channel Status Output Bits. PINS 2-6, 27.

These pins are dual function with the 'C' bits selected when SEL is high. Channel status information is displayed for the channel selected by CS12. $\overline{C0}$, which is channel status bit 0, defines professional ($\overline{C0}$ = 0) or consumer ($\overline{C0}$ = 1) mode and further controls the definition of the Ca-Ce pins. These pins are updated with the rising edge of CBL.

CS12 - Channel Select, PIN 13.

This pin is also dual function and is selected by bringing SEL high. CS12 selects sub-frame 1 (when low) or sub-frame 2 (when high) to be displayed by channel status pins $\overline{C0}$ and Ca through Ce.

FCK - Frequency Clock, PIN 13.

Frequency Clock input that is enabled by bringing SEL low. FCK is compared to the received clock frequency with the value displayed on F2 through F0. Nominal input value is 6.144 MHz.

E0, E1, E2 - Error Condition, PINS 4-6.

Encoded error information that is enabled by bringing SEL low. The error codes are prioritized and latched so that the error code displayed is the highest level of error since the last clearing of the error pins. Clearing is accomplished by bring SEL high for more than 8 MCK cycles.

F0, F1, F2 - Frequency Reporting Bits, PINS 2-3, 27.

Encoded sample frequency information that is enabled by bringing SEL low. A proper clock on FCK must be input for at least two thirds of a channel status block for these pins to be valid. They are updated three times per block, starting at the block boundary. These pins are invalid when the PLL is out of lock.

ERF - Error Flag, PIN 25.

Signals that an error has occurred while receiving the audio sample currently being read from the serial port. Three errors cause ERF to go high: a parity or biphase coding violation during the current sample, or an out of lock PLL receiver.

Receiver Interface

RXP, RXN - Differential Line Receivers, PINS 9, 10.

RS422 compatible line receivers.

Phase Locked Loop

MCK - Master Clock, PIN 19.

Low jitter clock output of 256 times the received sample frequency.

FILT - Filter, PIN 20.

An external 470Ω resistor and 0.068µF capacitor is required from FILT pin to analog ground.

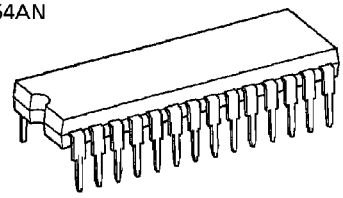
TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC9162AN, TC9163AN, TC9164AN
TC9162AF, TC9163AF, TC9164AF

HIGH VOLTAGE ANALOG FUNCTION SWITCH ARRAY

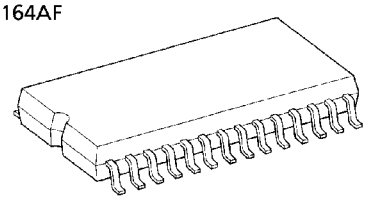
TC9162AN / AF, TC9163AN / AF and TC9164AN / AF are analog switch arrays for high voltage application. By inputting the specified serial data, the analog switches are controlled. As each analog switch is independently controllable, switch of wide use is available.

TC9162AN
TC9163AN
TC9164AN



SDIP28-P-400-1.78

TC9162AF
TC9163AF
TC9164AF



SOP28-P-450-1.27

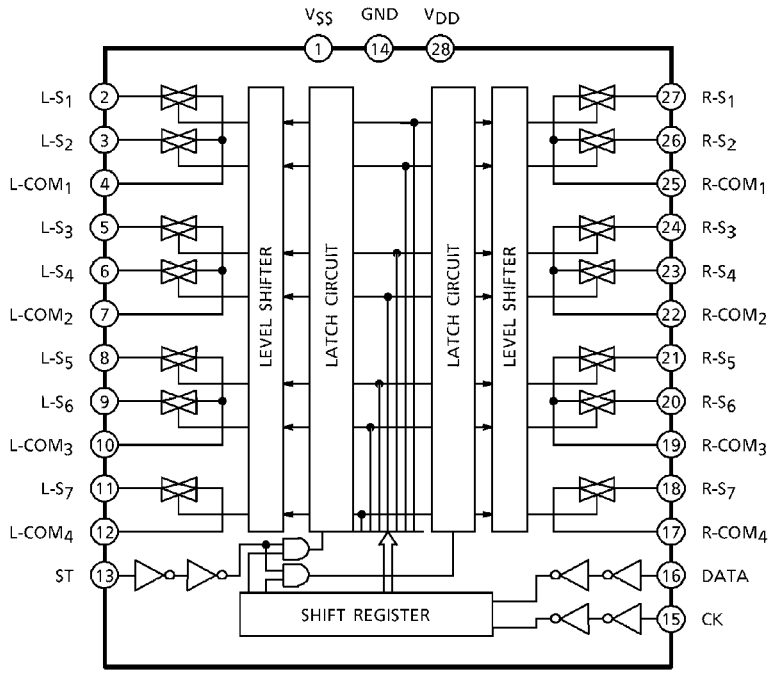
Weight
SDIP28-P-400-1.78 : 2.2g (Typ.)
SOP28-P-450-1.27 : 0.8g (Typ.)

FEATURES

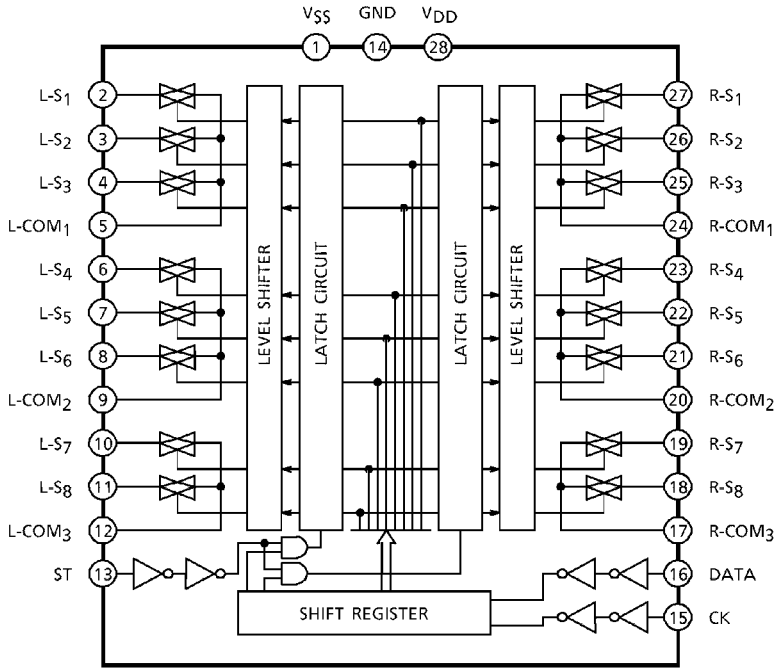
- Analog switches of 16 circuits are built in, allowing to provide three types according to internal connections.
- Dual power supply of (+) and (−) can be used.
  In this case the switch select data is operated in a single power supply by the built-in level shifter.
  As the threshold level of the input inverter is designed low, interface with CMOS microcomputer is easily available.
- As the analog switches are high-voltage (30V) use and have superior linearity of on-resistance, extra low distortion and wide dynamic range can be realized.
- Owing to CMOS structure current consumption is low.
- Package is shrinked DIP 28 PIN.

BLOCK DIAGRAM

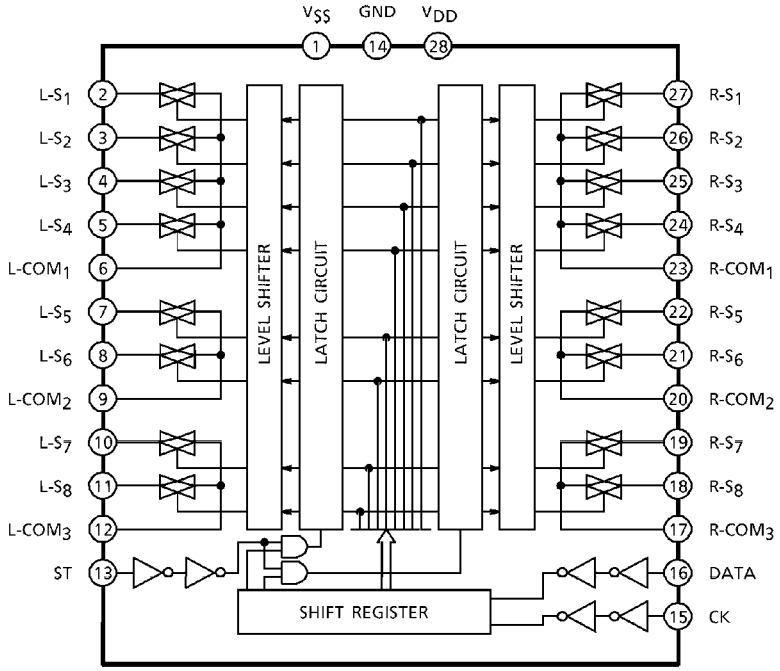
TC9162AN / AF



TC9163AN / AF

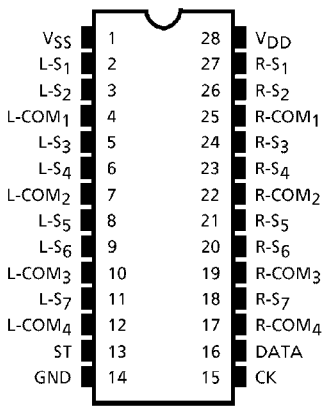


TC9164AN / AF

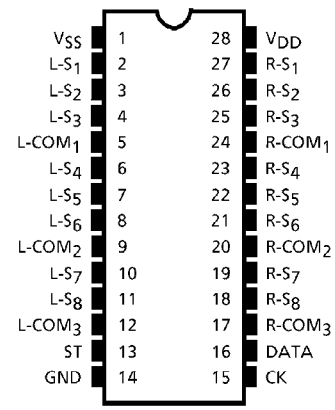


PIN CONNECTION (TOP VIEW)

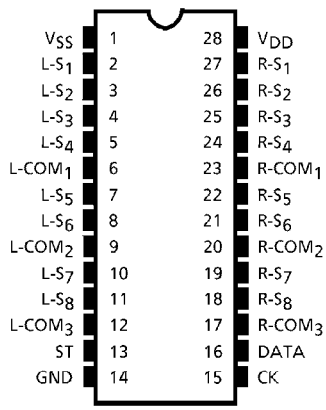
TC9162AN / AF



TC9163AN / AF



TC9164AN / AF

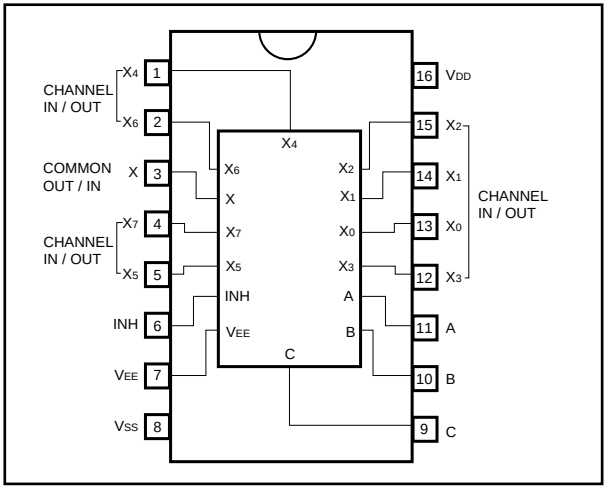


8-channel analog multiplexer / demultiplexer

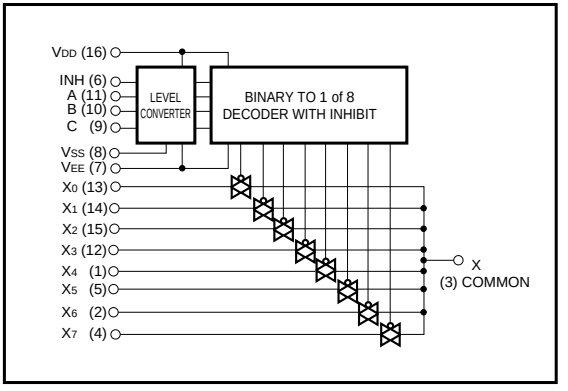
BU4051BC / BU4051BCF / BU4051BCFV

The BU4051BC, BU4051BCF and BU4051BCFV are analog multiplexers / demultiplexers which use three-input digital signals for control via an 8-channel analog switch.
These products feature high on / off output voltage ratio and low crosstalk between analog switches.

●Block diagram



●Logic circuit diagram



●Truth table

INH	A	B	C	ON SWITCH
L	L	L	L	X_0
L	H	L	L	X_1
L	L	H	L	X_2
L	H	H	L	X_3
L	L	L	H	X_4
L	H	L	H	X_5
L	L	H	H	X_6
L	H	H	H	X_7
H	X	X	X	NONE

X: Irrelevant

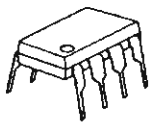
NJM2068

LOW-NOISE DUAL OPERATIONAL AMPLIFIER

■ GENERAL DESCRIPTION

The NJM2068 is a high performance, low noise dual operational amplifier. This amplifier features popular pin-out, superior noise performance, and superior total harmonic distortion. This amplifier also features guaranteed noise performance with substantially higher gain-bandwidth product and slew rate, which far exceeds that of the 4558 type amplifier. The specially designed low noise input transistors allow the NJM2068 to be used in very low noise signal processing applications such as audio preamplifiers and servo error amplifier.

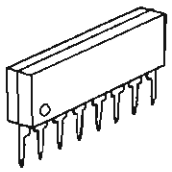
■ PACKAGE OUTLINE



NJM2068D

NJM2068M

NJM2068V

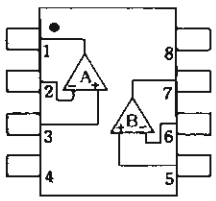


NJM2068L

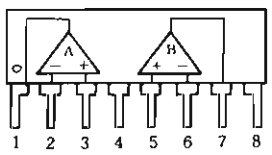
■ FEATURES

• Operating Voltage	(±4V~±18V)
• Low Total Harmonic Distortion	(0.001% typ.)
• Low Noise Voltage	(FLAT+JISA,0.56μV typ.)
• High Slew Rate	(6V/μs typ.)
• Unity Gain Bandwidth	(27MHz @ f=10kHz)
• Package Outline	DIP8,DMP8,SIP8,SSOP8
• Bipolar Technology	

■ PIN CONFIGURATION



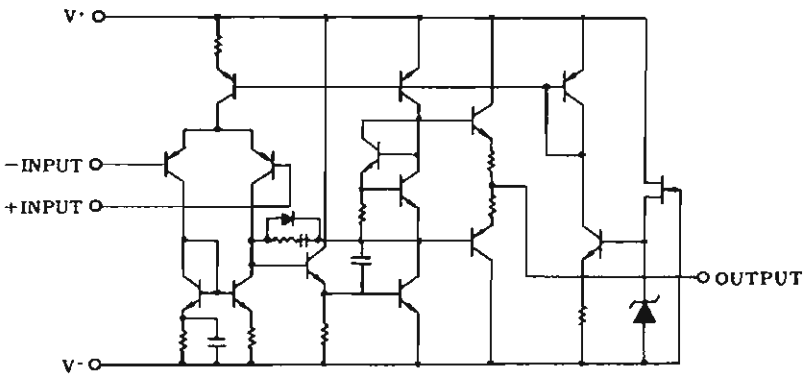
NJM2068D
NJM2068M
NJM2068V



NJM2068L

PIN FUNCTION
1.A OUTPUT
2.A –INPUT
3.A +INPUT
4.V⁻
5.B +INPUT
6.B –INPUT
7.B OUTPUT
8.V⁺

■ EQUIVALENT CIRCUIT (1/2 Shown)



NJM2296

5-INPUT 3PUTPUT VIDEO SW

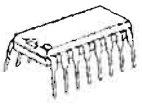
■GENERAL DESCRIPTION

The NJM2296 is a 5-input 3-output video switch.

Its switches select one from five signals received from VTR, TV, TV GAME and others.

This IC is designed for audio items, such as AV amplifier and receivers, and others

■PACKAGE OUTLINE



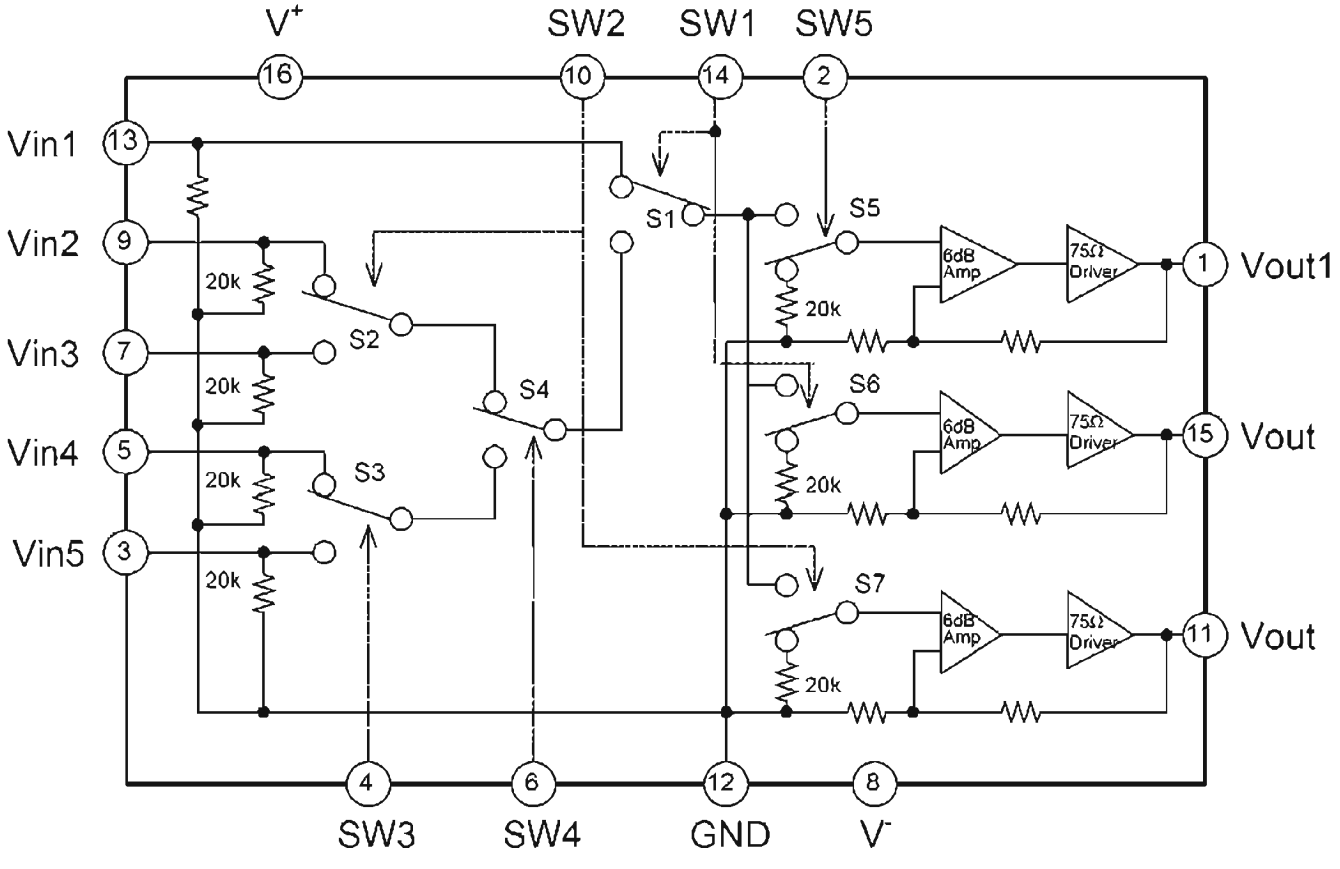
NJM2296D

NJM2296M

■FEATURES

- ●5-input 3-output
- ●Operating Voltage ±4.0 to ±6.5V
- ●Operating Current ±31mA typ. at Vcc=±5V
- ●Crosstalk -65dB typ.
- ●Internal 6dB Amplifier
- ●Internal 75Ω Driver
- ●Bipolar Technology
- ●Package Outline DIP16,DMP16

■BLOCK DIAGRAM



NJM4556A

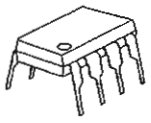
DUAL HIGH CURRENT OPERATIONAL AMPLIFIER

■ GENERAL DESCRIPTION

The NJM4556A integrated circuit is a high-gain, high output current dual operational amplifier capable of driving ±70mA into 150 Ω loads (±10.5V output voltage), and operating low supply voltage (V^+/V^-=±2V～).

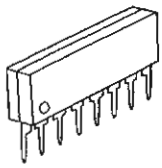
The NJM4556A combines many of the fetures of the popular NJM4558 as well as having the capability of driving 150Ω loads. In addition, the wide band-width, low noise, high slew rate and low distortion of the NJM4556A make it ideal for many audio, telecommunications and instrumentation applications.

■ PACKAGE OUTLINE

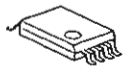


NJM4556AD

NJM4556AM



NJM4556AL

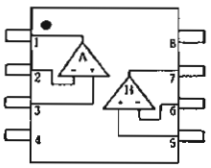


NJM4556AV

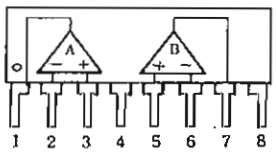
■ FEATURES

- Operating Voltage (±2V～±18V)
- High Output Current (Io=70mA)
- Slew Rate (3V/μs typ.)
- Gain Band Width Product (8MHz typ.)
- Package Outline DIP8, DMP8, SIP8, SSOP8
- Bipolar Technology

■ PIN CONFIGURATION



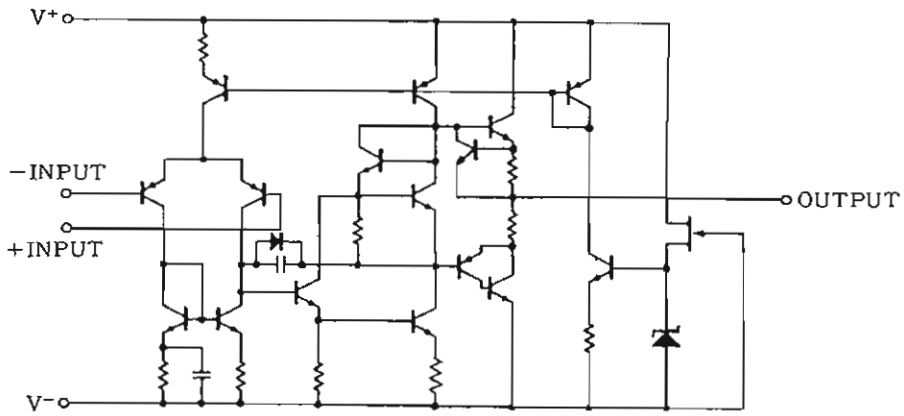
NJM4556AD
NJM4556AM
NJM4556AV



NJM4556AL

PIN FUNCTION
1. A OUTPUT
2. A−INPUT
3. A+INPUT
4. V⁻
5. B+INPUT
6. B−INPUT
7. B OUTPUT
8. V⁺

■ EQUIVALENT CIRCUIT (1/2 Shown)



QUARTZ CRYSTAL OSCILLATOR

■ GENERAL DESCRIPTION

The NJU6324 series is a C-MOS quartz crystal oscillator which consists of an oscillation amplifier, 3-stage divider and 3-state output buffer.

The oscillation frequency is as wide as up to 50MHz and the symmetry of 45-55% is realized over full oscillation frequency range.

The oscillation amplifier incorporates feed-back resistance and oscillation capacitors(Cg, Cd), therefore, it requires no external component except quartz crystal.

The 3-stage divider generates f_o, $f_o/2$, $f_o/4$ and $f_o/8$ and only one frequency selected by internal circuits is output

The 3-state output buffer is C-MOS compatible and capable of 10 LSTTL driving.

■ FEATURES

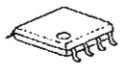
- Operating Voltage -- 3.0~6.0V
- Maximum Oscillation Frequency -- 50MHz
- Low Operating Current
- High Fan-out -- LSTTL 10
- 3-state Output Buffer
- Selected Frequency Output (mask option)
  Only one frequency out of f_o, $f_o/2$, $f_o/4$ and $f_o/8$ output
- Oscillation Capacitors Cg and Cd on-chip
- Oscillation and/or Output Stand-by Function
- Package Outline -- CHIP/EMP 8
- C-MOS Technology

■ LINE-UP TABLE

Type No.	Output Frequency	Cg	Cd
NJU6324L	f_o	23pF	23pF
NJU6324M	$f_o/2$	23pF	23pF
NJU6324N	$f_o/4$	23pF	23pF
NJU6324U	$f_o/8$	23pF	23pF

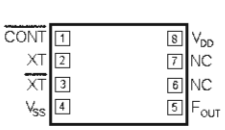
■ PACKAGE OUTLINE

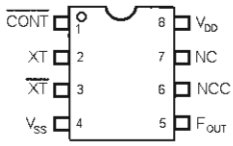
NJU6324XC



NJU6324XE

■ PIN CONFIGURATION/PAD LOCATION





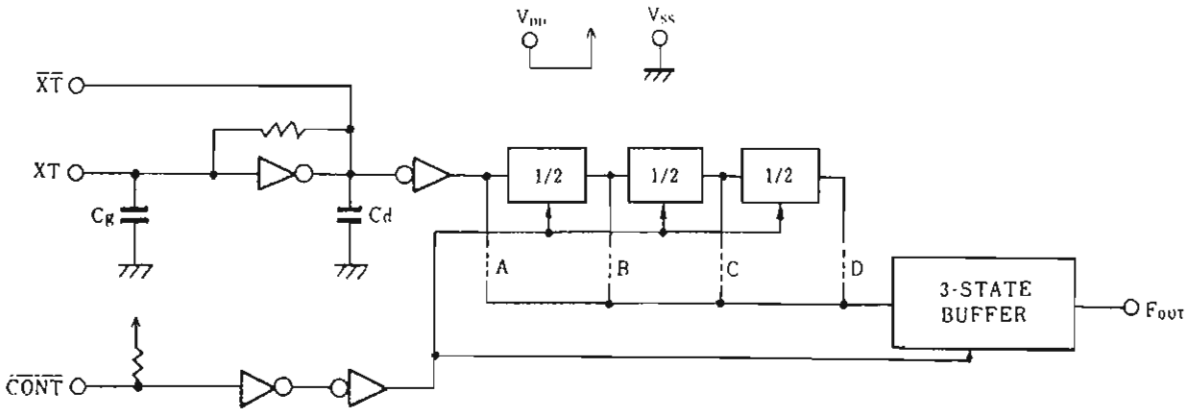
■ COORDINATES

Unit: μm

No.	PAD	X	Y
1	$\overline{CONT}$	170	649
2	XT	170	483
3	$\overline{XT}$	170	316
4	V_{SS}	170	143
5	F_{OUT}	1094	143
6	NC	-	-
7	NC	1094	462
8	V_{DD}	1094	649

Chip Size : 1.24 X 0.8mm
Chip Thickness : 400μm±30μm
(Note) No. 6 and 7 terminals are only for package type information. There is No.7 PAD on the chip but no No.6.

■ BLOCK DIAGRAM



TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC74VHC240F, TC74VHC240FW, TC74VHC240FT
TC74VHC244F, TC74VHC244FW, TC74VHC244FT

OCTAL BUS BUFFER

TC74VHC240F / FW / FT INVERTED, 3 - STATE OUTPUTS

TC74VHC244F / FW / FT NON - INVERTED, 3 - STATE OUTPUTS

(Note) The JEDEC SOP (FW) is not available in Japan.

The TC74VHC240 and 244 are advanced high speed CMOS OCTAL BUS BUFFERs fabricated with silicon gate C²MOS technology.

They achieve the high speed operation similar to equivalent Bipolar Schottky TTL while maintaining the CMOS low power dissipation.

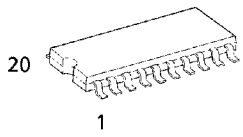
The 74VHC240 is an inverting 3 - state buffer having two active - low output enables. The TC74VHC244 is a non - inverting 3 - state buffer, and has two active - low output enables.

These devices are designed to be used with 3 - state memory address drivers, etc.

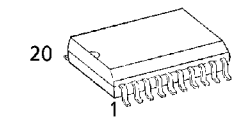
An input protection circuit ensures that 0 to 7V can be applied to the input pins without regard to the supply voltage. This device can be used to interface 5V to 3V systems and two supply systems such as battery back up. This circuit prevents device destruction due to mismatched supply and input voltages.

FEATURES :

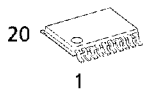
- High Speed ..... t_{pd} = 3.9ns(typ.) at V_{CC} = 5V
- Low Power Dissipation ..... I_{CC} = 4μA(Max.) at Ta = 25°C
- High Noise Immunity ..... $V_{NIH} = V_{NIL}$ = 28% V_{CC} (Min.)
- Power Down Protection is provided on all inputs.
- Balanced Propagation Delays ..... $t_{pLH} \simeq t_{pHL}$
- Wide Operating Voltage Range ..... V_{CC} (opr) = 2V ~ 5.5V
- Low Noise ..... V_{OLP} = 0.9V (Max.)
- Pin and Function Compatible with 74ALS240/244



F (SOP20-P-300-1.27)
Weight : 0.22g (Typ.)



FW (SOL20-P-300-1.27)
Weight : 0.46g (Typ.)



FT (TSSOP20-P-0044-0.65)
Weight : 0.08g (Typ.)

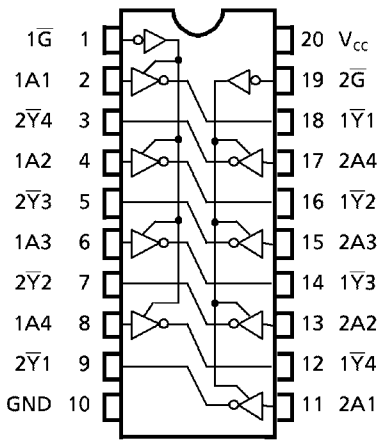
TRUTH TABLE

INPUTS		OUTPUTS	
$\overline{G}$	A_n	Y_n	$\overline{Y}_n$
L	L	L	H
L	H	H	L
H	X	Z	Z

X : Don't Care
Z : High Impedance
Y_n : TC74VHC244
$\overline{Y}_n$: TC74VHC240

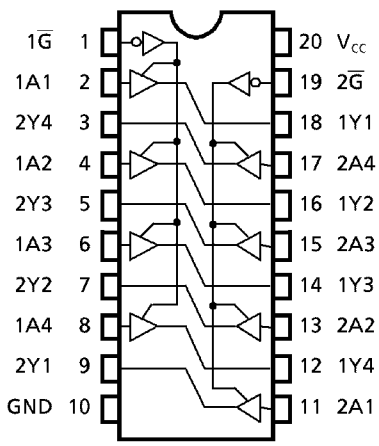
PIN ASSIGNMENT

TC74VHC240



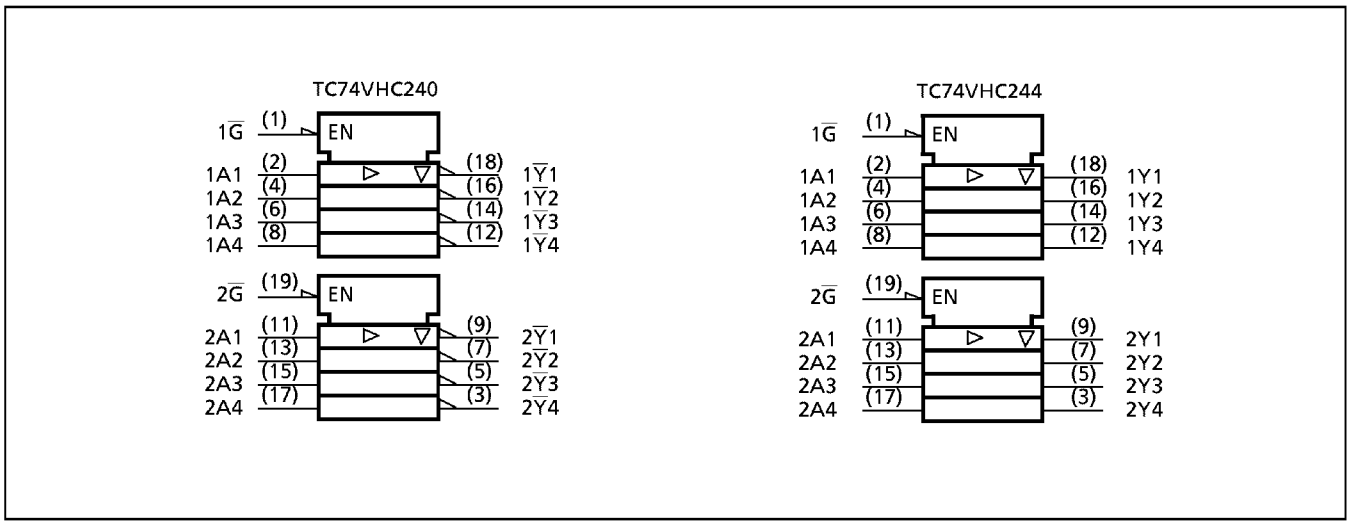
(TOP VIEW)

TC74VHC244



961001EBA2

IEC LOGIC SYMBOL



ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage Range	V_{CC}	−0.5~7.0	V
DC Input Voltage	V_{IN}	−0.5~7.0	V
DC Output Voltage	V_{OUT}	−0.5~V_{CC}+0.5	V
Input Diode Current	I_{IK}	−20	mA
Output Diode Current	I_{OK}	±20	mA
DC Output Current	I_{OUT}	±25	mA
DC V_{CC}/Ground Current	I_{CC}	±75	mA
Power Dissipation	P_D	180	mW
Storage Temperature	T_{stg}	−65~150	°C

RECOMMENDED OPERATING CONDITIONS

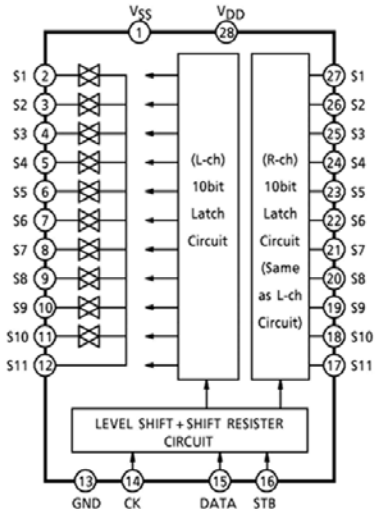
PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V_{CC}	2.0~5.5	V
Input Voltage	V_{IN}	0~5.5	V
Output Voltage	V_{OUT}	0~V_{CC}	V
Operating Temperature	T_{opr}	−40~85	°C
Input Rise and Fall Time	dt / dv	0~100 (V_{CC} = 3.3 ± 0.3V) 0~20 (V_{CC} = 5 ± 0.5V)	ns / V

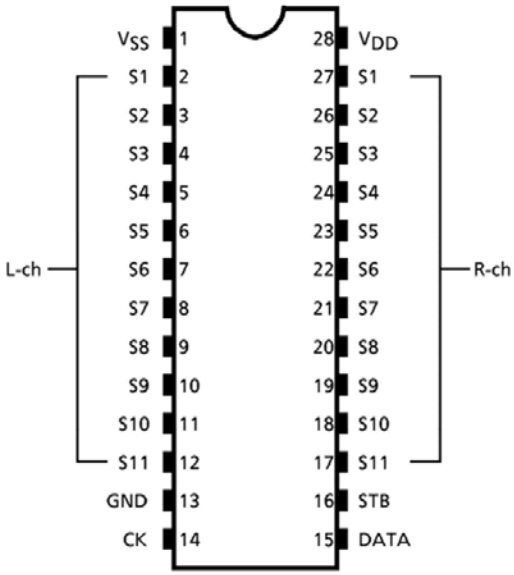
TC9273N

CMOS Digital IC

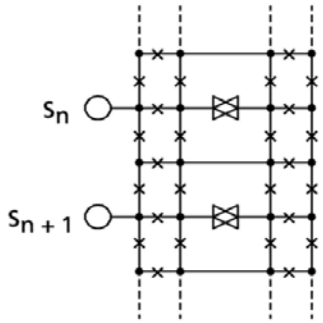
BLOCK DIAGRAM

TC9273N, TC9273F





PIN FUNCTION (Left channel / right channel)

PIN No.			SYMBOL	PIN NAME	FUNCTION AND OPERATION	NOTE
TC9273N / F	TC9274N	TC9274F				
1	1	40	V_{SS}	Negative power supply pin	Dual power supply: V_{DD} = 8.0~17V, GND = 0V, V_{SS} = −8.0~−17V	—
13	20	16	GND	Digital ground pin		
28	42	38	V_{DD}	Positive power supply pin	Single power supply: V_{DD} = 8.0~18V, V_{SS} = GND = 0V	
2 / 27	2 / 41	41 / 37	S1	Input / output pins	Analog switch input pins.  × : Aluminum mask switch. ● : Open or closed can be specified. Connection for right and left channels can be different.	—
3 / 26	3 / 40	42 / 36	S2			
4 / 25	4 / 39	43 / 35	S3			
5 / 24	5 / 38	44 / 34	S4			
6 / 23	6 / 37	1 / 33	S5			
7 / 22	7 / 36	2 / 32	S6			
8 / 21	8 / 35	3 / 31	S7			
9 / 20	9 / 34	4 / 30	S8			
10 / 19	10 / 33	5 / 29	S9			
11 / 18	11 / 32	6 / 28	S10			
12 / 17	12 / 31	7 / 27	S11			
—	13 / 30	8 / 26	S12			
—	14 / 29	9 / 25	S13			
—	15 / 28	10 / 24	S14			
—	16 / 27	11 / 23	S15			
—	17 / 26	12 / 22	S16			
—	18 / 25	13 / 21	S17			
—	19 / 24	14 / 20	S18			
—	—	17 / 39	NC	Not connected	—	—
14	21	16	CK	Clock input pin	Clock input for data transfer	Low threshold value input pins
15	22	18	DATA	Data input pin	Serial data input for setting switches	
16	23	19	STB	Strobe input pin	Strobe input for data writing	

TOSHIBA TC9482N/F

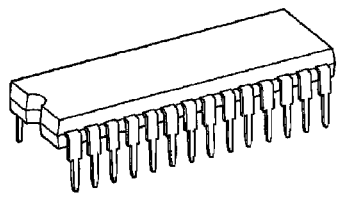
TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC9482N, TC9482F

SYSTEM ELECTRONIC VOLUME CONTROL

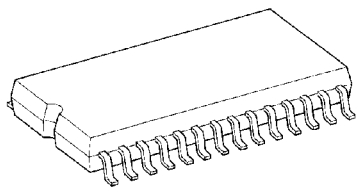
The TC9482N and TC9482F are six-channel electronic volume control ICs developed for Hi-Fi audio equipment. Since all six channels can be individually controlled, the devices are optimum for audio equipment with multiple outputs.

TC9482N



SDIP28-P-400-1.78

TC9482F



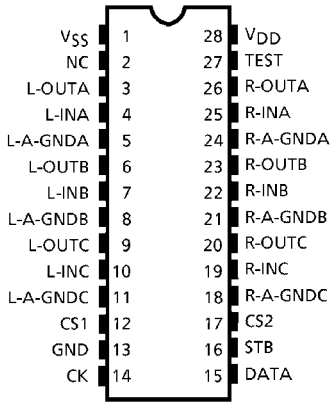
SOP28-P-450-1.27

Weight
SDIP28-P-400-1.78 : 2.2 g (Typ.)
SOP28-P-450-1.27 : 0.8 g (Typ.)

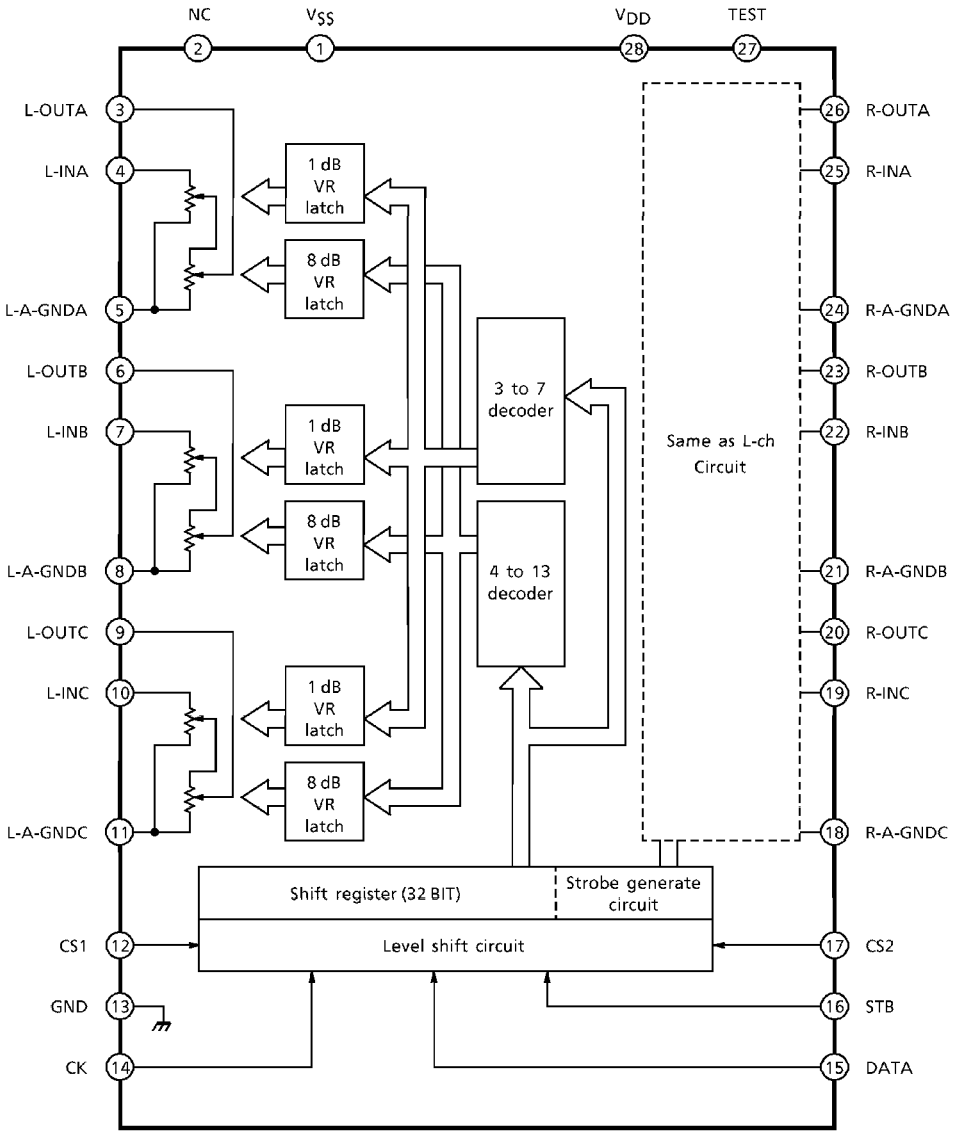
FEATURES

- Sound volume can be controlled in 97 steps from 0 to −95dB or up to an infinite level in 1dB increments.
- Incorporating six channels of volume control circuits, the device allows independent volume control.
- Can operate with a single or dual power supplies.
- Can control up to 4 chips on the same bus by using chip select input.
- Built-in interface for 5-V microcomputers.
- Thanks to its polysilicon resistor, the device allows you to configure a low-distortion, high-performance volume control system.
- Two packages supported: 28-pin shrink DIP and 28-pin flat package.

PIN CONNECTIONS

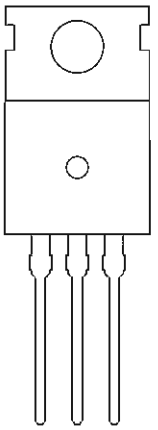


BLOCK DIAGRAM



3-Terminal 1.5A Negative Adjustment Regulator IC

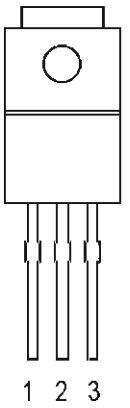
KA337



1. Adj.
2. Input
3. Output

Low Saturation Voltage Type 3-Pin Regulator IC

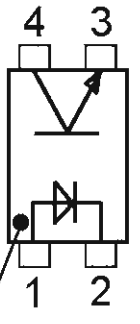
BA033T



1 Vcc
2 Ground
3 Out

Photocoupler IC

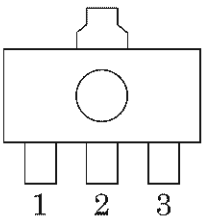
PC-17T1



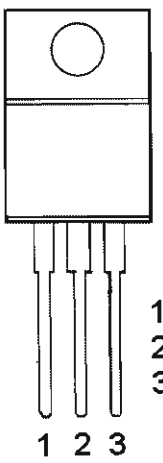
Anode Mark

POSITIVE REGULATORS VARIOUS STYLES 7805, 7815

SOT-89

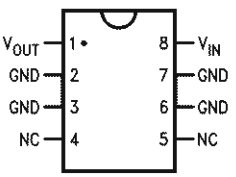


1.OUT
2.GND
3.IN



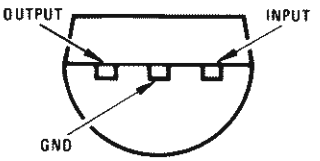
1. IN
2. GROUND
3. OUT

SO-8 Plastic (M) (Narrow Body)



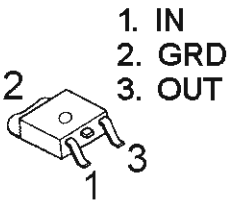
Top View

(TO-92) Plastic Package (Z)



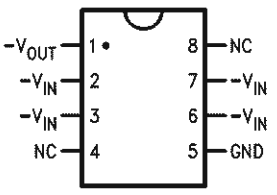
Bottom View

TO-252

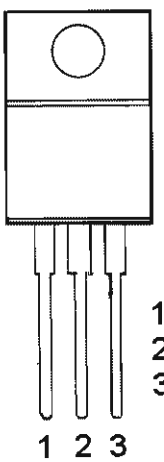


NEGATIVE REGULATORS VARIOUS STYLES 7905, 7915

SO-8 Plastic (Narrow Body)

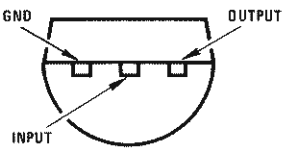


Top View



1. GROUND
2. IN
3. OUT

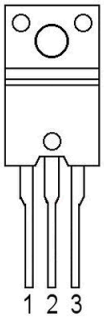
TO-92 Plastic Package (Z)



Bottom View

Silicon Transistor

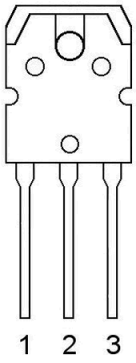
2SA1859 PNP
2SC4883 NPN



1 Base
2 Collector
3 Emitter

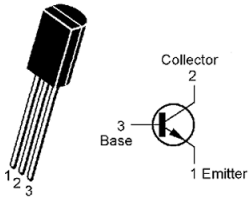
Silicon Transistor

2SA1986, 2SA1941,2SB1560 PNP
2SC5198, 2SC5358,2SD2390 NPN

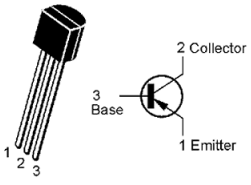


1 Base
2 Collector (Heat Sink)
3 Emitter

KTC3206

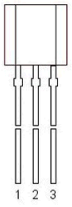


KRC107
KTA1268
KTA1266
KTA1024



EPITAXIAL PLANAR TRANSISTOR

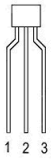
KTC3200
KTC2874
KTC3198
KRA107M PNP



1 Emitter
2 Collector
3 Base

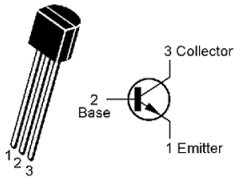
Silicon PNP Transistor

2SA1740S
DTA114TSA

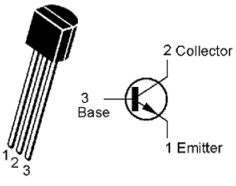


1 Emitter
2 Collector
3 Base

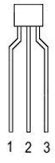
MPSA06



KTD1302

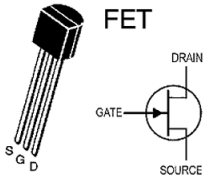


DTA114YSA
DTC114YSA NPN

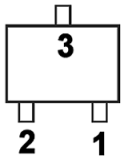


1) Ground
2) In
3) Out

2SK117

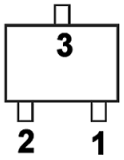


DTA114YKA



1) Ground
2) In
3) Out

KRA107S PNP
KTD1304 NPN
KRC111S NPN
DTC114TKA NPN
DTC114YKA NPN

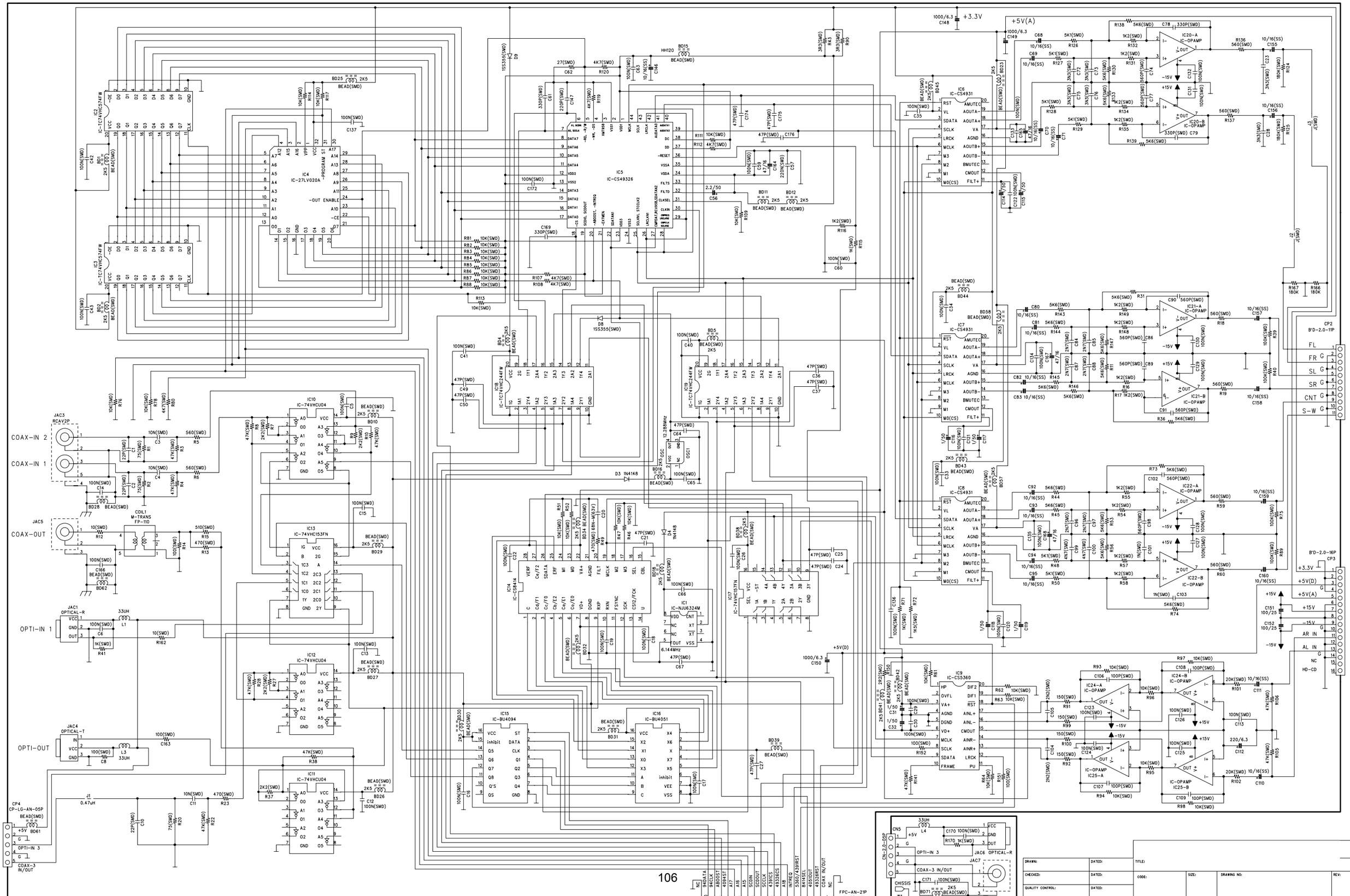


1) Emitter
2) Base
3) Collector

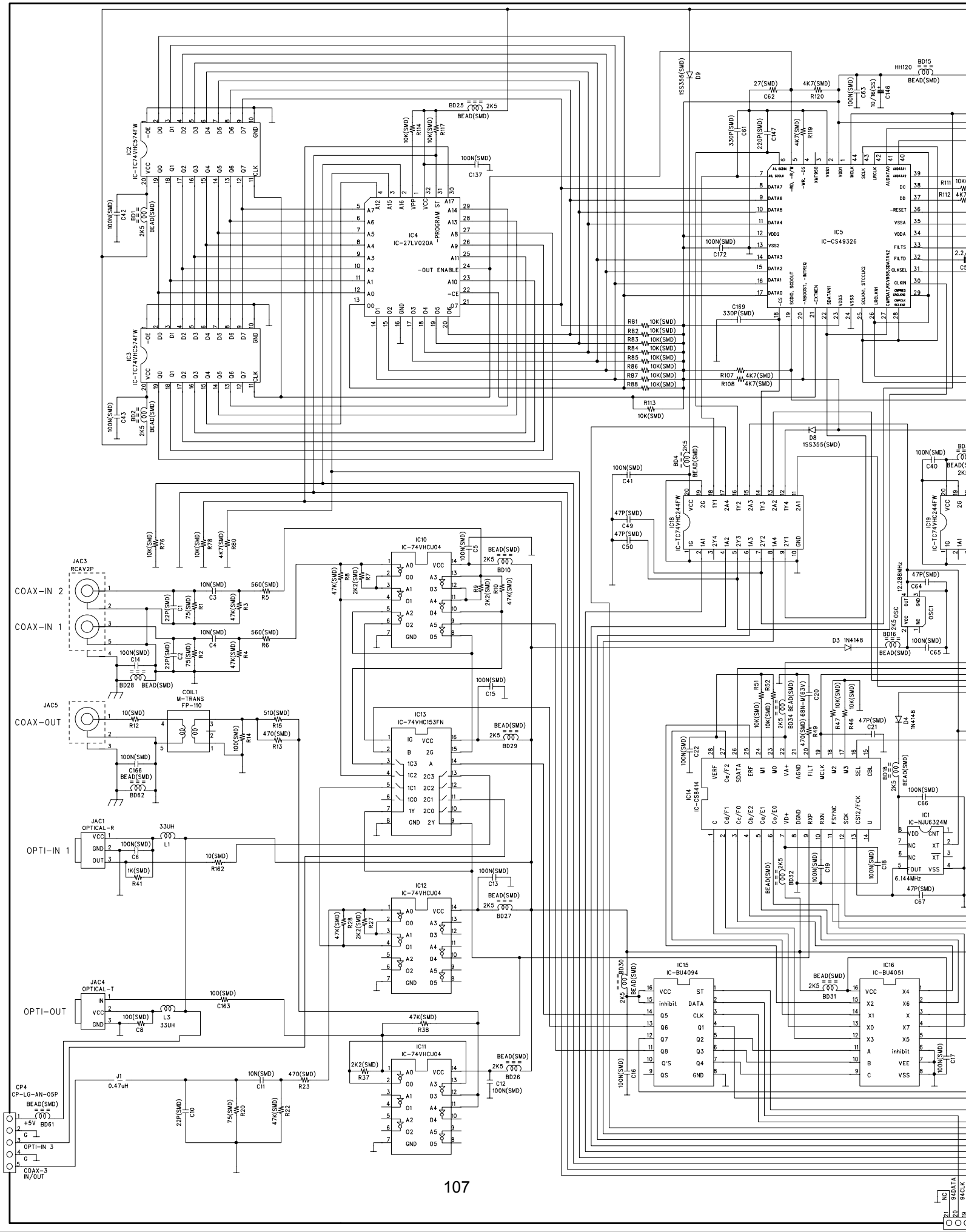
DCR600

SCHEMATIC DIAGRAM M.P DCR600 DSP B'D

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



DRAWN:	DATED:	TITLE:	
CHECKED:	DATED:	CODE:	SIZE: DRAWING NO: REV:
QUALITY CONTROL:	DATED:		
RELEASED:	DATED:	SCALE:	SHEET: 1 OF 1

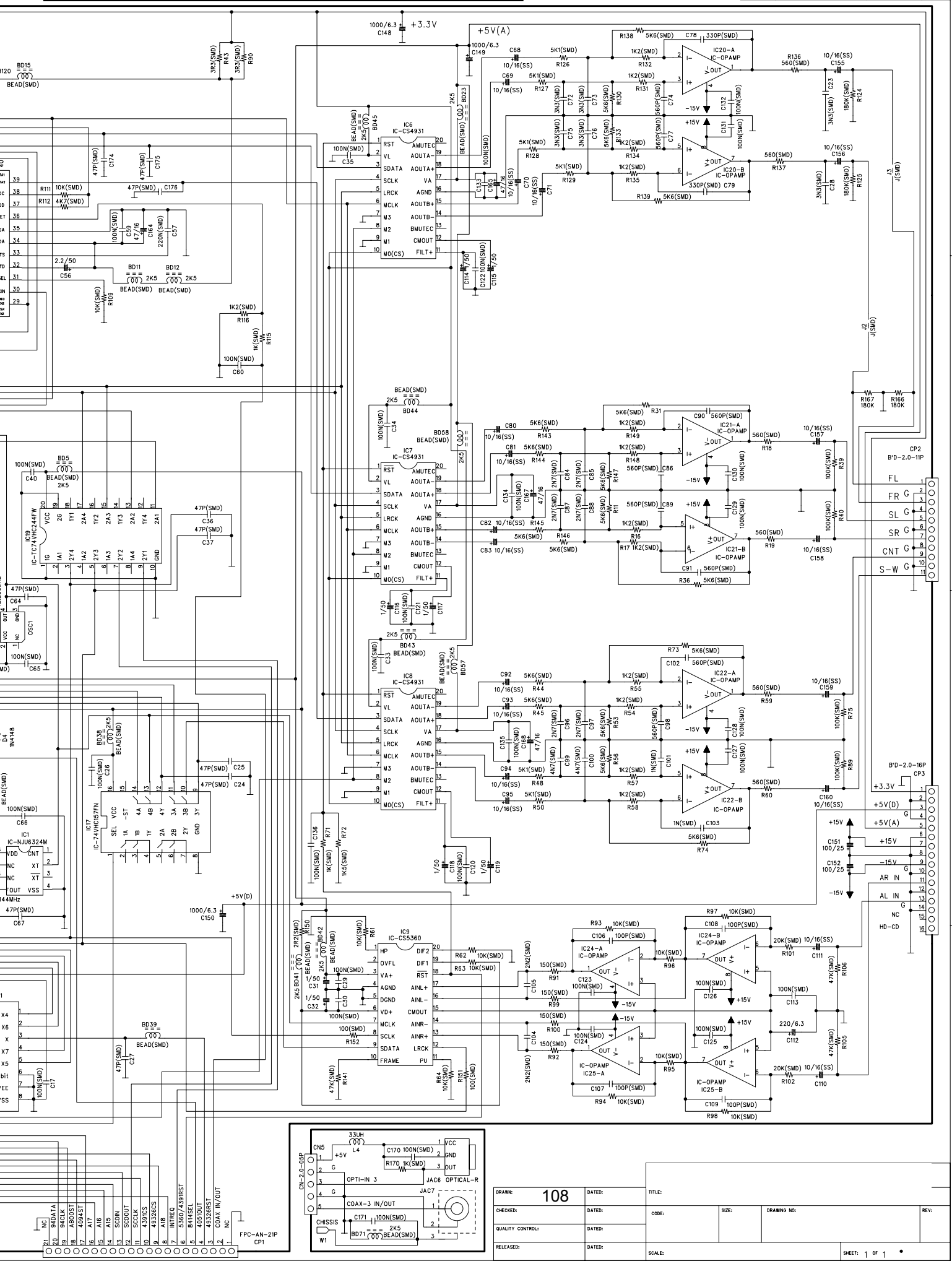

IC2 IC-TC74VHC574FW
IC3 IC-TC74VHC574FW
IC4 IC-27LV020A
IC5 IC-CS49326
IC10 IC-74VHCU04
IC11 IC-74VHCU04
IC12 IC-74VHCU04
IC13 IC-74VHC153FN
IC14 IC-CS8414
IC15 IC-BU4094
IC16 IC-BU4051
IC18 IC-TC74VHC244FW
IC19 IC-TC74VHC244FW
IC1 IC-NJU6324M
D9 1SS355(SMD)
D8 1SS355(SMD)
D3 1N4148
D4 1N4148
JAC3 RCAV2P
COAX-IN 2
COAX-IN 1
JAC5
COAX-OUT
COIL1 M-TRANS FP-110
JAC1 OPTICAL-R
OPTI-IN 1
JAC4 OPTICAL-T
OPTI-OUT
CP4 CP-LG-AN-05P
+5V
OPTI-IN 3
COAX-3 IN/OUT
12.288MHz
6.144MHz
94DATA
94CLK

RAM DCR600

JBL

DSP B'D

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



DRAWN: 108	DATED:	TITLE:	
CHECKED:	DATED:	CODE:	SIZE: DRAWING NO: REV:
QUALITY CONTROL:	DATED:		
RELEASED:	DATED:	SCALE:	SHEET: 1 OF 1

SCHEMATIC DIAGRAM DCR600

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

KEY B'D

FRONT B'D

SENSOR B'D

TAPE B'D

H/P B'D

TACT S/W B'D

SETOPTION JUMPER TABLE

	CPU"A"	CPU"B"
J201	5000	2000
J202	510	110
J203	4000	3000
J204	310	210

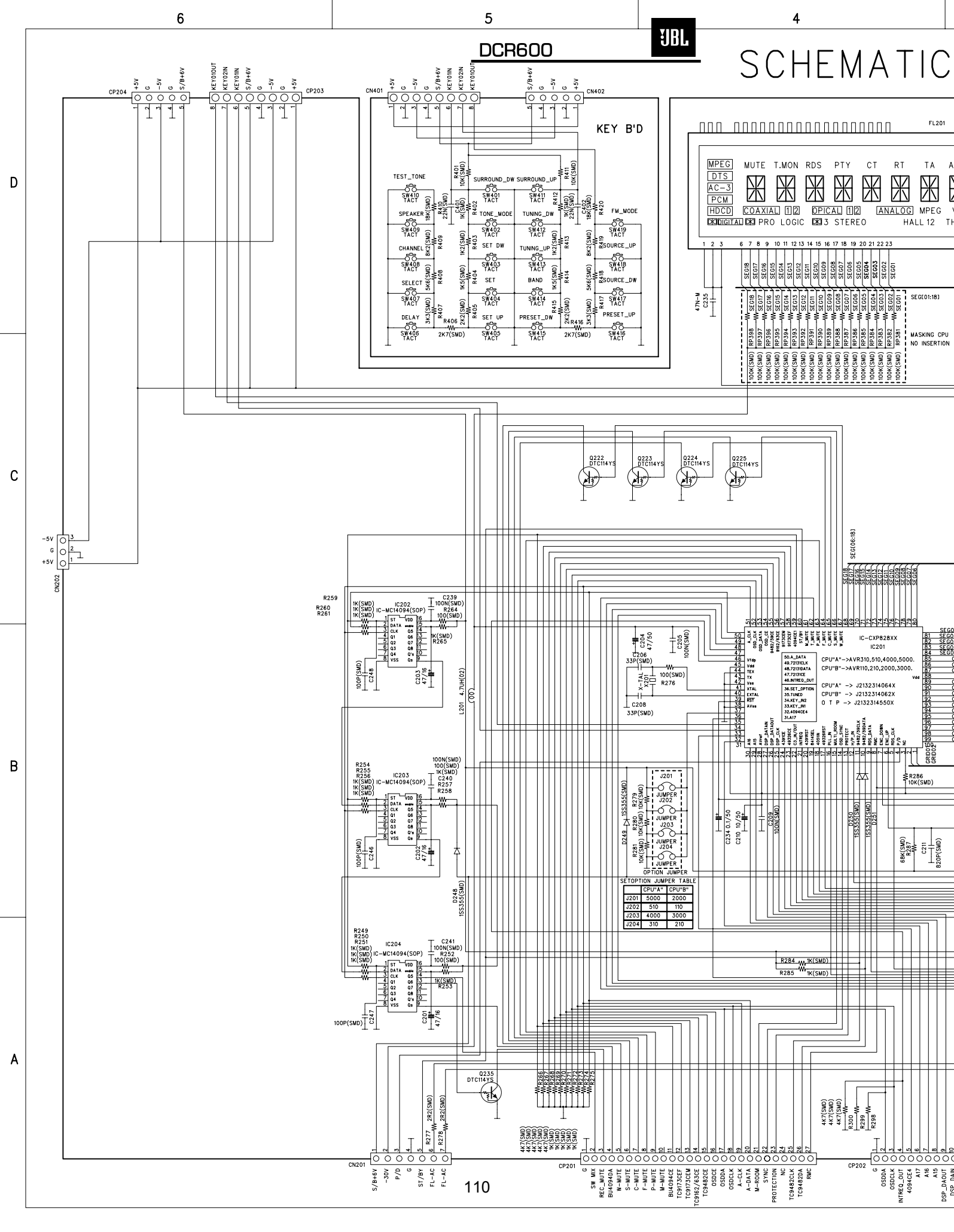
DRAWN: W.S.SEO	DATED: 2001.01.02.
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

TITLE: DCR600 FRONT, KEY

CODE: | SIZE: | DRAWING NO: | REV:

SCALE: | SHEET: OF

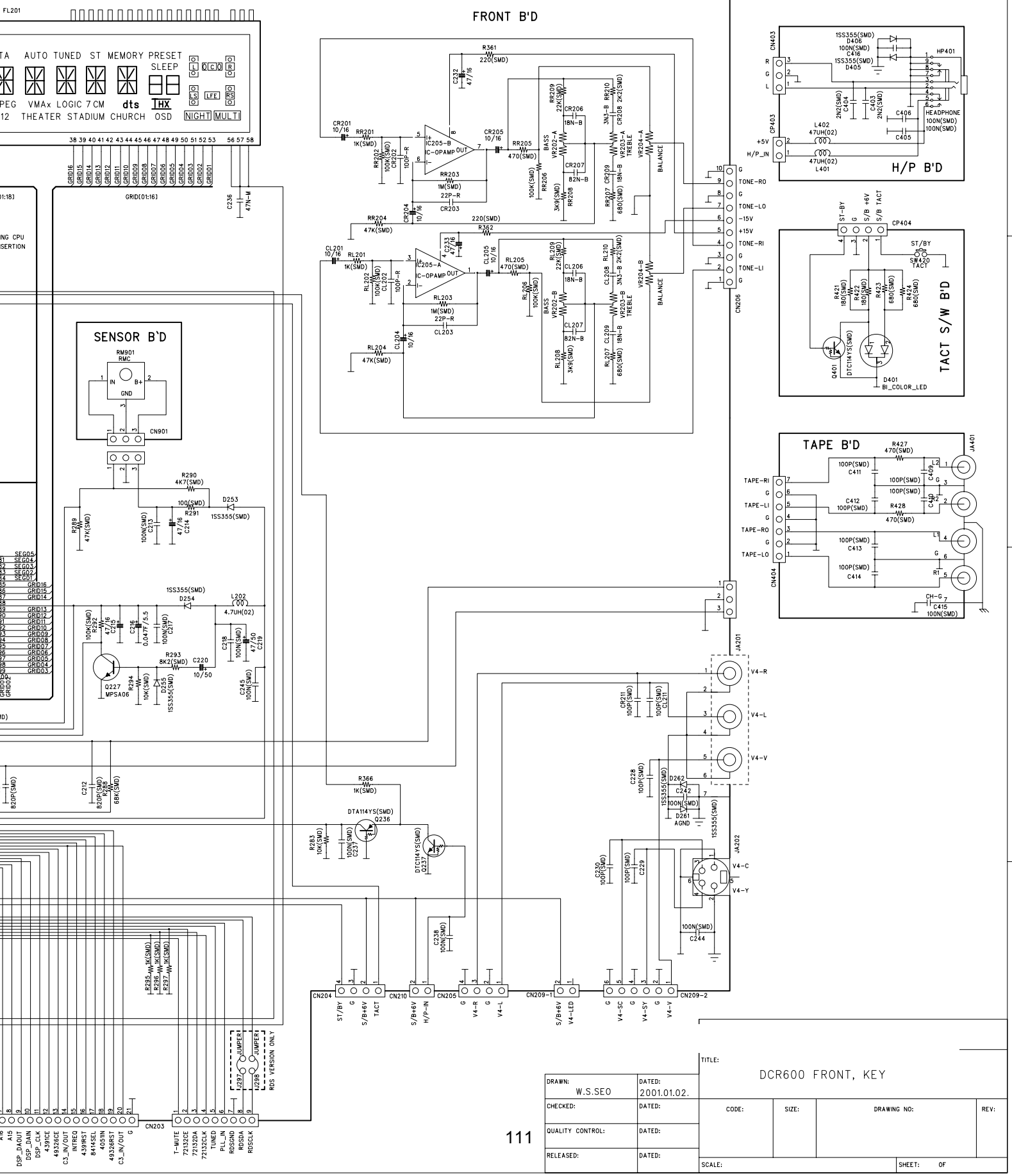
SCHEMATIC



	CPU"A"	CPU"B"
J201	5000	2000
J202	510	110
J203	4000	3000
J204	310	210

C DIAGRAM DCR600

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



DRAWN: W.S.SEO	DATED: 2001.01.02.	TITLE: DCR600 FRONT, KEY	
CHECKED:	DATED:	CODE:	SIZE: DRAWING NO: REV:
QUALITY CONTROL:	DATED:		
RELEASED:	DATED:	SCALE:	SHEET: OF

DCR600 MAIN AMP SCHEMATIC DIAGRAM M.P

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS

DCR600

DCR600
20V
8 ohm
50W×2
40W×5

FRONT OUTPUT

CENTER OUTPUT

TO SURR B'D

TO FRONT B'D

SW-OUT

FROM ST-BY B'D

TO SURR B'D

TO MAIN B'D 2mm 6P

TO SURR B'D 2mm 4P

VOLTAGE REGULATOR

PROTECTION

FROM VIDEO B'D

FROM FRONT B'D

FROM DSP B'D

FROM PROCESS B'D

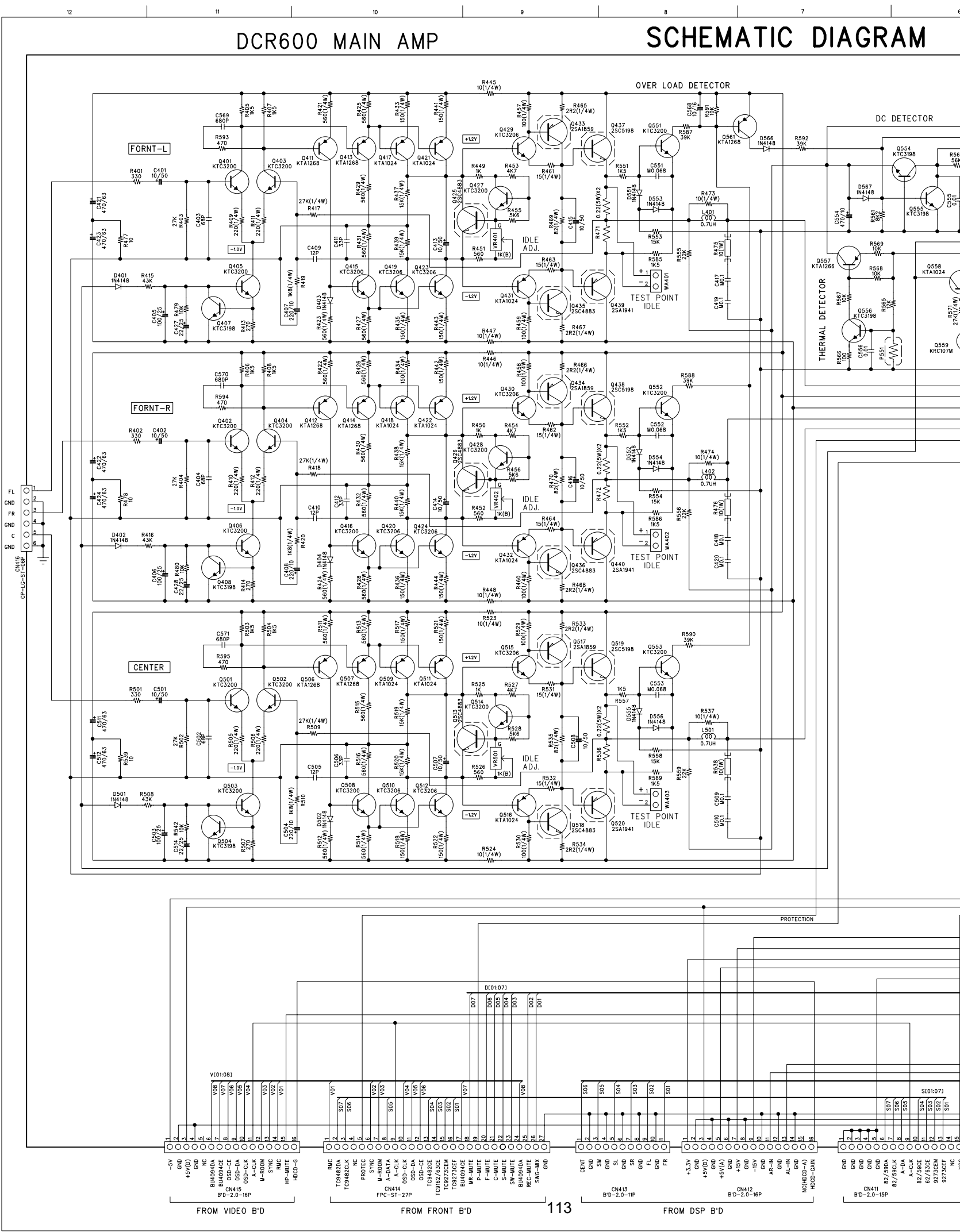
FROM TUNER B'D

CONFIDENTIAL/CONTROL COPY

FILENAME	CODE NO.			SHEET
MODEL DCR600	DESIGN	CHKD	CHKD	APPROVAL
DESIGN DATE '02.JAN.2001	KIM MIN			

DCR600 MAIN AMP

SCHEMATIC DIAGRAM



NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CO

DCR600

JBL

AM

M.P

TO SURR B'D

CN417
CN-2.5-03P

OVER LOAD DET 3
DC DET 2
P-ON/OFF MUTE 1

ETECTOR

JK500
SH0410772N

FL-OUT 4
FL-GND 3
FR-GND 2
FR-OUT 1

FRONT OUTPUT

JW6014B

CET.-OUT 2
CEN.-GND 1

CENTER OUTPUT

JK501
SH021040

JW6012B

DCR600
20V
8 ohm
50W+2
40W+5

Q554
KTC3198

R562 56K
R564 56K

+4.5V

Q555
KTC3198

C555 0.01
R563 56K

Q558
KTA1024

R570 270

R571 27K(1/4W)

D406 1N4148
D405 1N4148

Q559
KRC107M

POWER ON/OFF MUTE

IC481 78M15
IC482 79M15
IC483 BA033T
IC484 78M05
IC485 78M05
IC486 79M05
IC487 KI337

R481 10(2W)
R482 10(2W)
R483 10(2W)
R484 4R7(2W)
R485 4R7(2W)
R486 4R7(2W)
R487 3R3(2W)
R489 220 5W
R490 680 5W

C489 10/50
C490 10/50
C492 10/50
ANALOG C494 10/50
DIGITAL C496 10/50
C497 10/50
C498 10/50

VOLTAGE REGULATOR

C481 6800/63V
C482 6800/63V
C485 2200/35
C486 2200/35
C487 2200/16
C488 2200/16

D481 BU8-04F
D482 W2-04F

C483 0.1/250
C564 0.1/250
C565 0.1/250

C484 47N-M
C566 47N-M
C567 47N-M
C431 47N-M
C432 47N-M
C433 47N-M

FU481 2A/125V
FU482 2A/125V
FU483 2A/125V
FU484 2A/125V

FH401
FH402
FH403
FH404
FH405
FH406
FH407
FH408

D568 1N5402
D569 1N5402
D570 1N5402
D571 1N5402

CN401
CP-3.96-03P
AC1
GND
AC1

CN402
CP-MO-ST-06P
AC3
GND
AC3
AC4
GND
AC4

TO SURR B'D

S1 CA2 RED BLK RED
S2 CA3 YEL BLK YEL
S3 CA4 BLU BLK BLU BRN BLK BRN

CA1 BLU BLK

FROM ST-BY B'D

CN403
CP-MO-ST-03P
+5V 3
GND 2
-5V 1

TO FRONT B'D

C444 220P

JK401
RCA1P-G
SW-OUT

CP406
B'D-2.0-14P
FL-IN
FL-OUT
GND
FR-IN
FR-OUT
GND
C-IN
C-OUT
GND
SL-IN
SL-OUT
GND
SR-IN
SR-OUT
GND
SW
GND

CP404
FL-OUT
GND
FR-OUT
GND
C-OUT
GND

TO MAIN B'D 2mm 6P

SL-OUT
GND
SR-OUT
GND

TO SURR B'D 2mm 4P

KTA1024 Y
KTA1268 BL
KTC3206Y
KTC3200BL
KRC107M
E C B

KTA1659 Y
KTC4370 Y
2SC5358 R
2SA1986 R
2SC5198 R
2SA1941 R
B C E

D07 D06 D05 D04 D03 D02 D01

S(01:07)
S07 S06 S05 S04 S03 S02 S01

S(01:06)
S06 S05 S04 S03 S02 S01

A-DA A-CLK 82/592CE 62/632CE 9273CEM 9273CEF NC VCC

-15V +15V GND HP-MUTE MR-MUTE F-MUTE C-MUTE S-MUTE SW-MUTE REC-MUTE SWG-MIX GND MRF-L GND MR-R

AL-IN GND AR-IN GND CENT GND SW GND SL GND SR GND FL GND FR

T-R GND T-L GND CENT GND SW GND SL GND SR GND FL GND FR

+15V T-R GND T-L GND

CN410
B'D-2.0-15P

CN409

CN408
B'D-2.0-15P

CN407
B'D-2.0-05P

FROM PROCESS B'D

FROM TUNER B'D

CONFIDENTIAL/CONTROL COPY

FILENAME	CODE NO.			SHEET
MODEL DCR600	DESIGN	CHKD	CHKD	APPROVAL
DESIGN DATE '02.JAN.2001	KIM MIN			

DCR600

SCHEMATIC DIAGRAM

M.P

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

FROM TAPE B'D — CP404 CP-LG-ST-07P

VID4 I/O FROM FRONT B'D — CP205 CP-LG-ST-04P

FROM MAIN B'D — CP405 B'D-2.0-12P

FROM H/P B'D — CP403 CP-LG-ST-03P

FROM FRONT B'D TONE — CP206 B'D-2.0-10P

TONE BUFFER

BYPASS GAIN

LINE BUFFER

IC-TC9482N IC706

IC-TC9273 IC701

IC-KIC9163 IC705

IC-KIC9162 IC704

JK701 VCR3 IN

JK702 VCR1 IN

JK703 RCA2PH CD

VCR2 IN

VCR1 OUT

CH-G

CD-L

CD-R

T-L

T-R

DELETE: AVR210

R941 9K1(S)

CN411 B'D-2.0-15P

CN410 B'D-2.0-15P

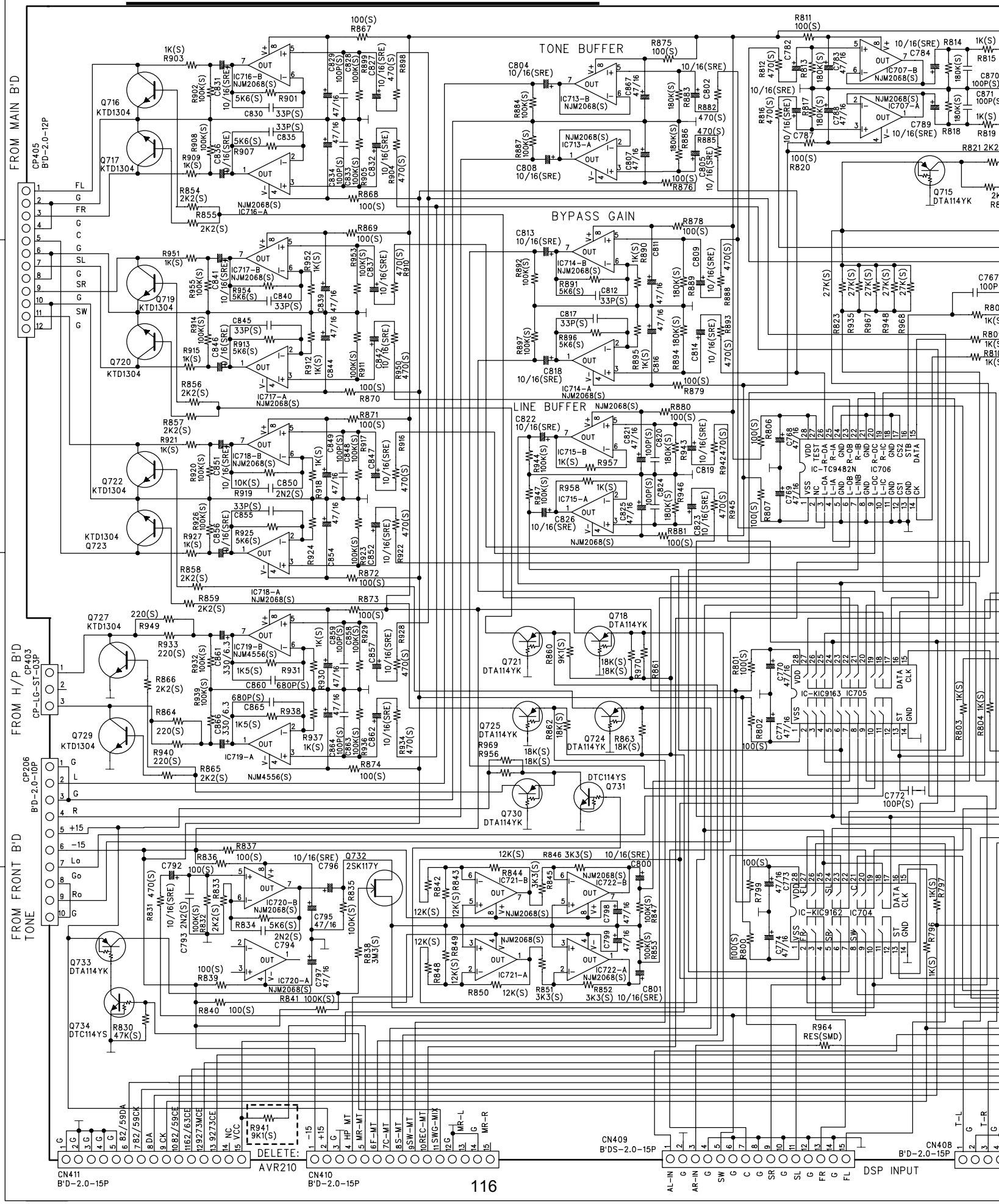
CN409 B'DS-2.0-15P

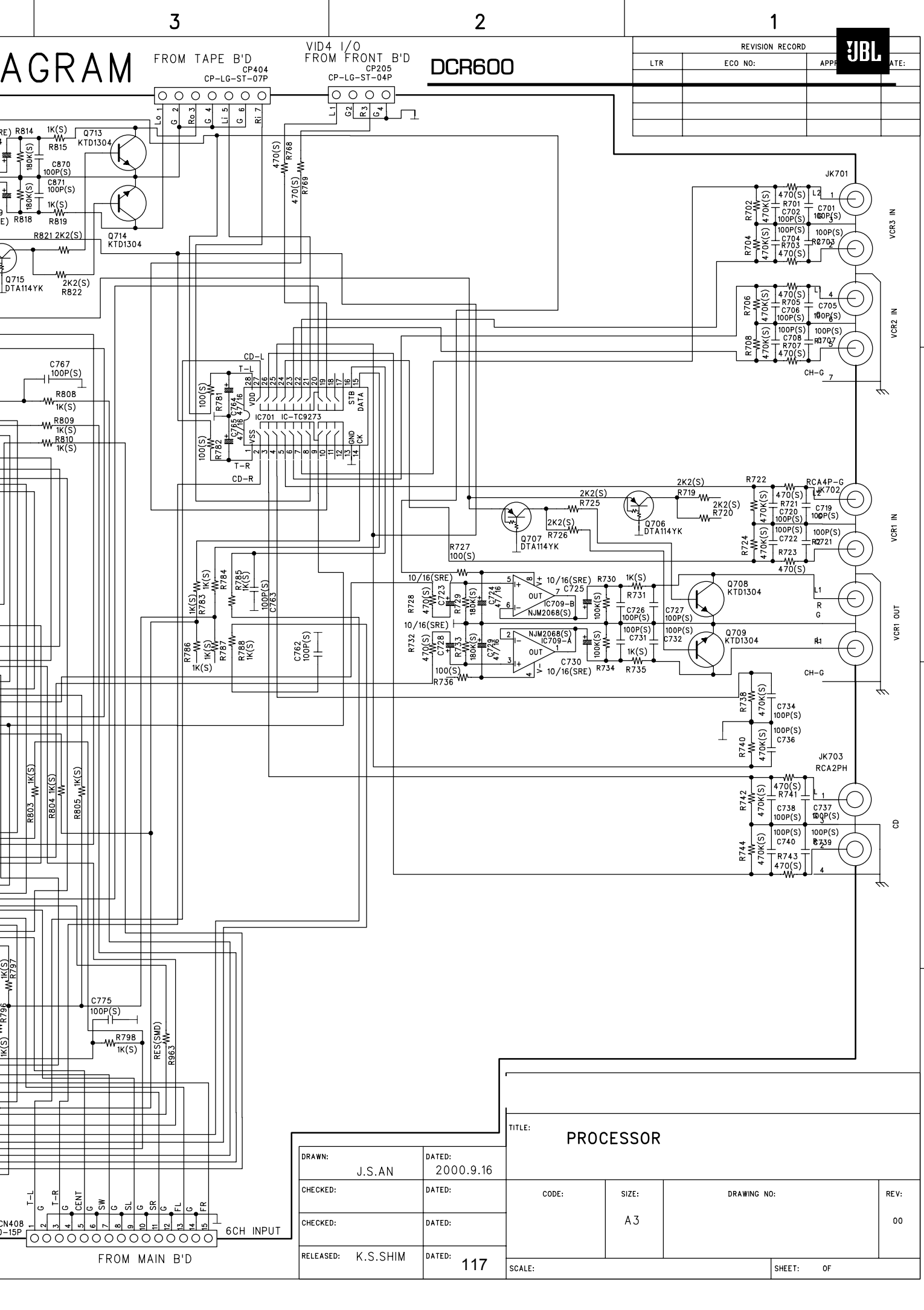
DSP INPUT

CN408 B'D-2.0-15P

6CH INPUT FROM MAIN B'D

DRAWN: J.S.AN	DATED: 2000.9.16	TITLE: PROCESSOR	
CHECKED:	DATED:	CODE:	SIZE: A3
CHECKED:	DATED:	DRAWING NO:	REV: 00
RELEASED: K.S.SHIM	DATED:	SCALE:	SHEET: OF

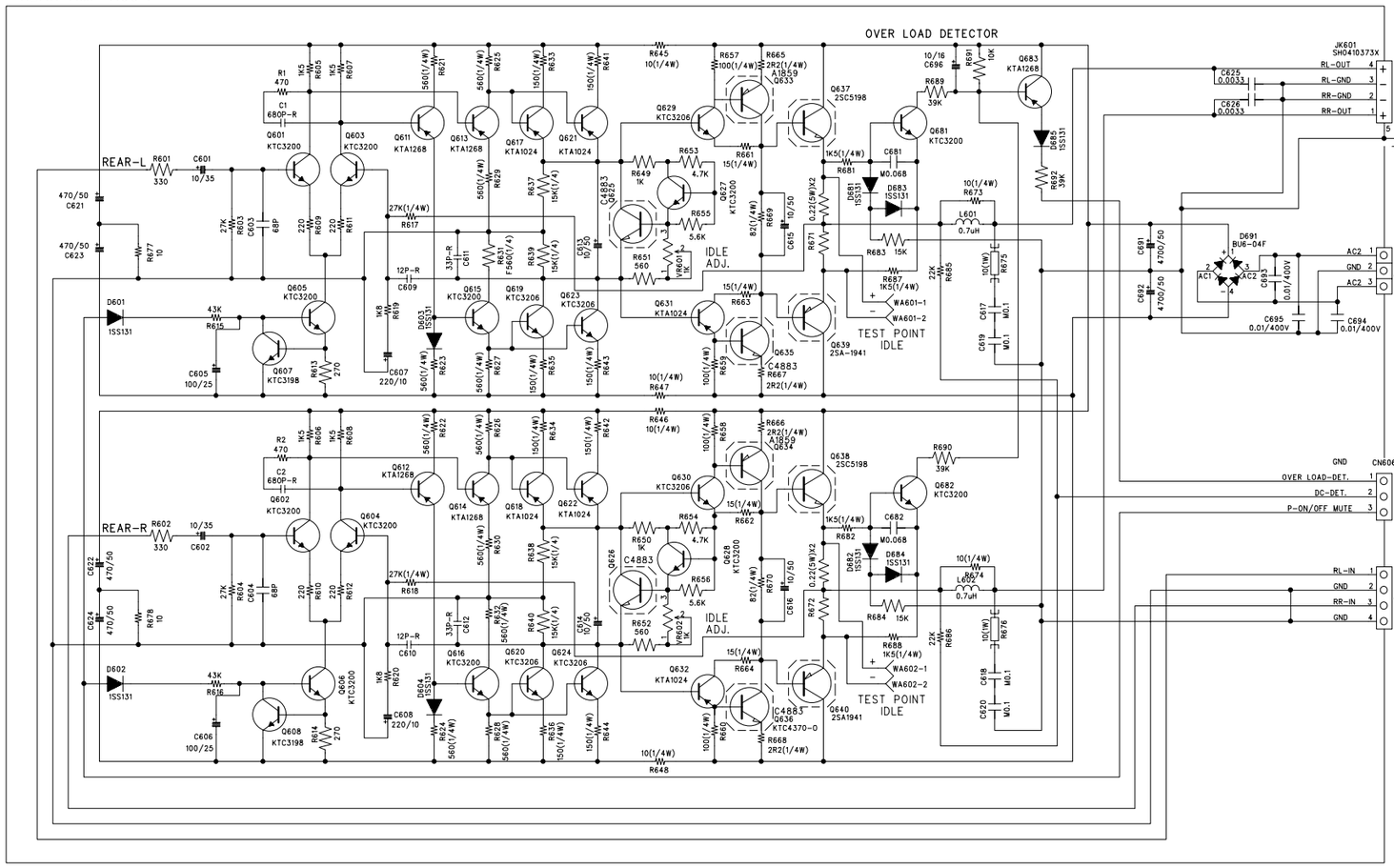

FROM MAIN B'D
CP405 B'D-2.0-12P
FL
G
FR
G
C
G
SL
G
SR
G
SW
G
TONE BUFFER
BYPASS GAIN
LINE BUFFER
NJM2068(S)
IC716-A
IC716-B
IC717-A
IC717-B
IC718-A
IC718-B
IC719-A
IC719-B
IC720-A
IC720-B
IC721-A
IC721-B
IC722-A
IC722-B
IC713-A
IC713-B
IC714-A
IC714-B
IC715-A
IC715-B
IC707-A
IC707-B
Q716 KTD1304
Q717 KTD1304
Q719 KTD1304
Q720 KTD1304
Q722 KTD1304
KTD1304 Q723
Q727 KTD1304
Q729 KTD1304
Q733 DTA114YK
Q734 DTC114YS
Q715 DTA114YK
Q721 DTA114YK
Q718 DTA114YK
Q725 DTA114YK
Q724 DTA114YK
Q730 DTA114YK
DTC114YS Q731
Q732 2SK117Y
FROM H/P B'D
CP403 CP-LG-ST-03P
NJM4556(S)
FROM FRONT B'D TONE
CP206 B'D-2.0-10P
G
L
G
R
+15
-15
Lo
Go
Ro
G
R964 RES(SMD)
IC-TC9482N
IC706
IC-KIC9163
IC705
IC-KIC9162
IC704
DELETE: AVR210
R941 9K1(S)
CN411 B'D-2.0-15P
CN410 B'D-2.0-15P
CN409 B'DS-2.0-15P
CN408 B'D-2.0-15P
DSP INPUT
AL-IN
AR-IN
SW
C
SR
SL
FR
FL
T-L
T-R


3
2
1
AGRAM
FROM TAPE B'D
CP404
CP-LG-ST-07P
VID4 I/O
FROM FRONT B'D
CP205
CP-LG-ST-04P
DCR600
REVISION RECORD
LTR
ECO NO:
APP
ATE:
JBL
D
C
B
A
JK701
VCR3 IN
VCR2 IN
VCR1 IN
VCR1 OUT
CD
JK702
RCA4P-G
JK703
RCA2PH
CH-G
Q713 KTD1304
Q714 KTD1304
Q715 DTA114YK
Q706 DTA114YK
Q707 DTA114YK
Q708 KTD1304
Q709 KTD1304
IC701 IC-TC9273
IC709-A NJM2068(S)
IC709-B NJM2068(S)
CD-L
CD-R
6CH INPUT
FROM MAIN B'D
TITLE:
PROCESSOR
DRAWN:
J.S.AN
DATED:
2000.9.16
CHECKED:
CHECKED:
RELEASED:
K.S.SHIM
117
CODE:
SIZE:
A3
DRAWING NO:
REV:
00
SCALE:
SHEET:
OF

DCR600

SURROUND AMP SCHEMATIC DIAGRAM

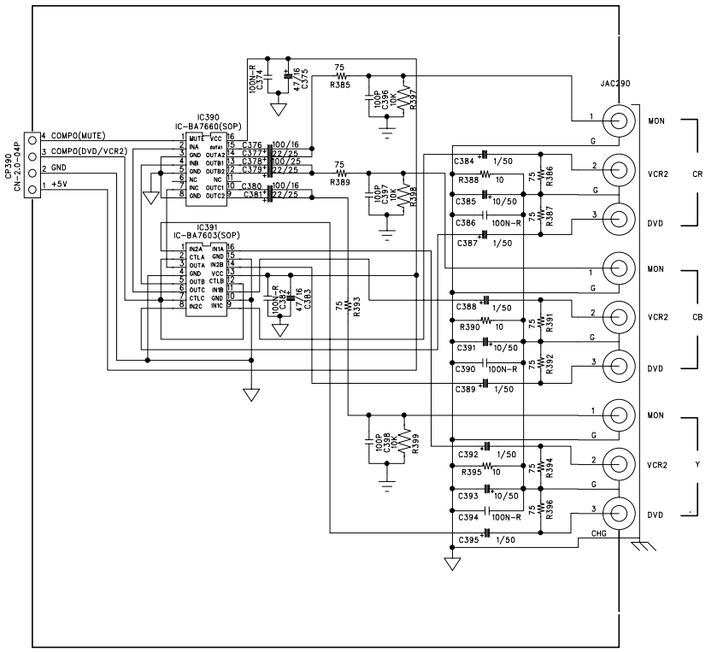
REAR AMP ASS'Y



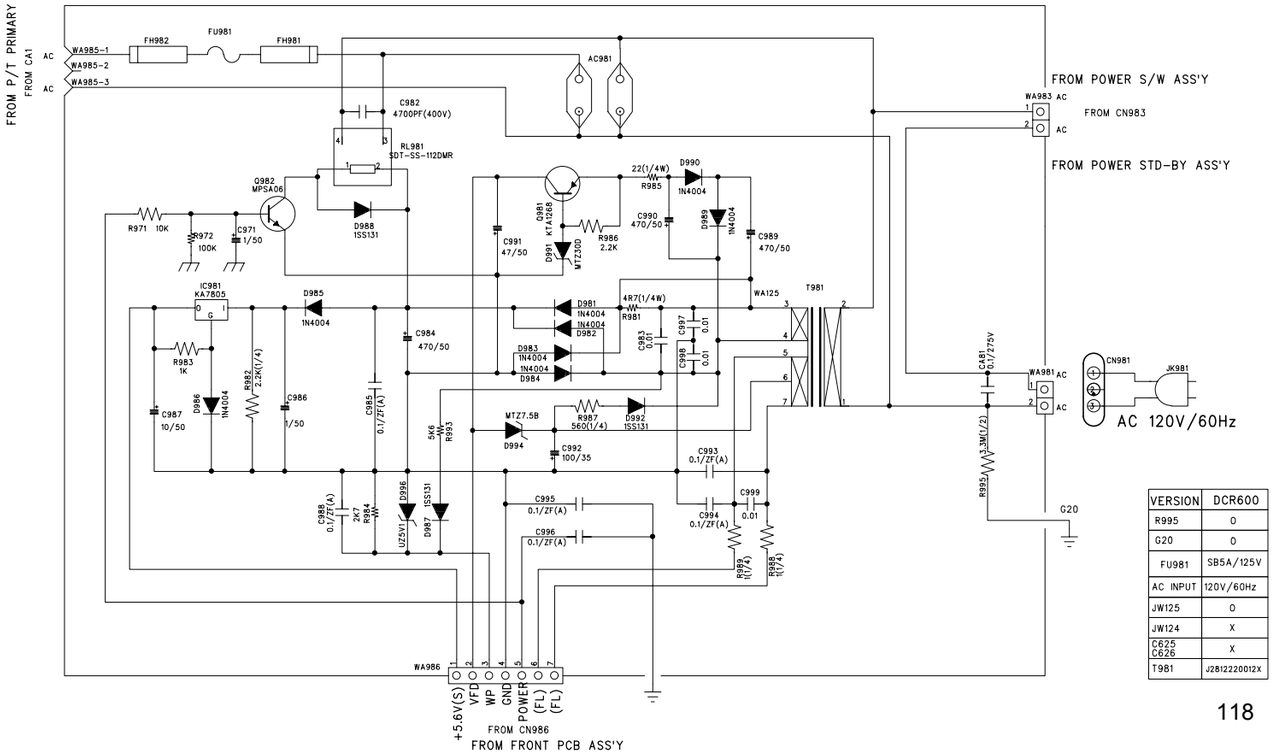
SURROUND OUTPUT

AVR-210
17.9V
8 ohm

COMPONENT B'D ASS'Y



SUB POWER SUPPLY ASS'Y

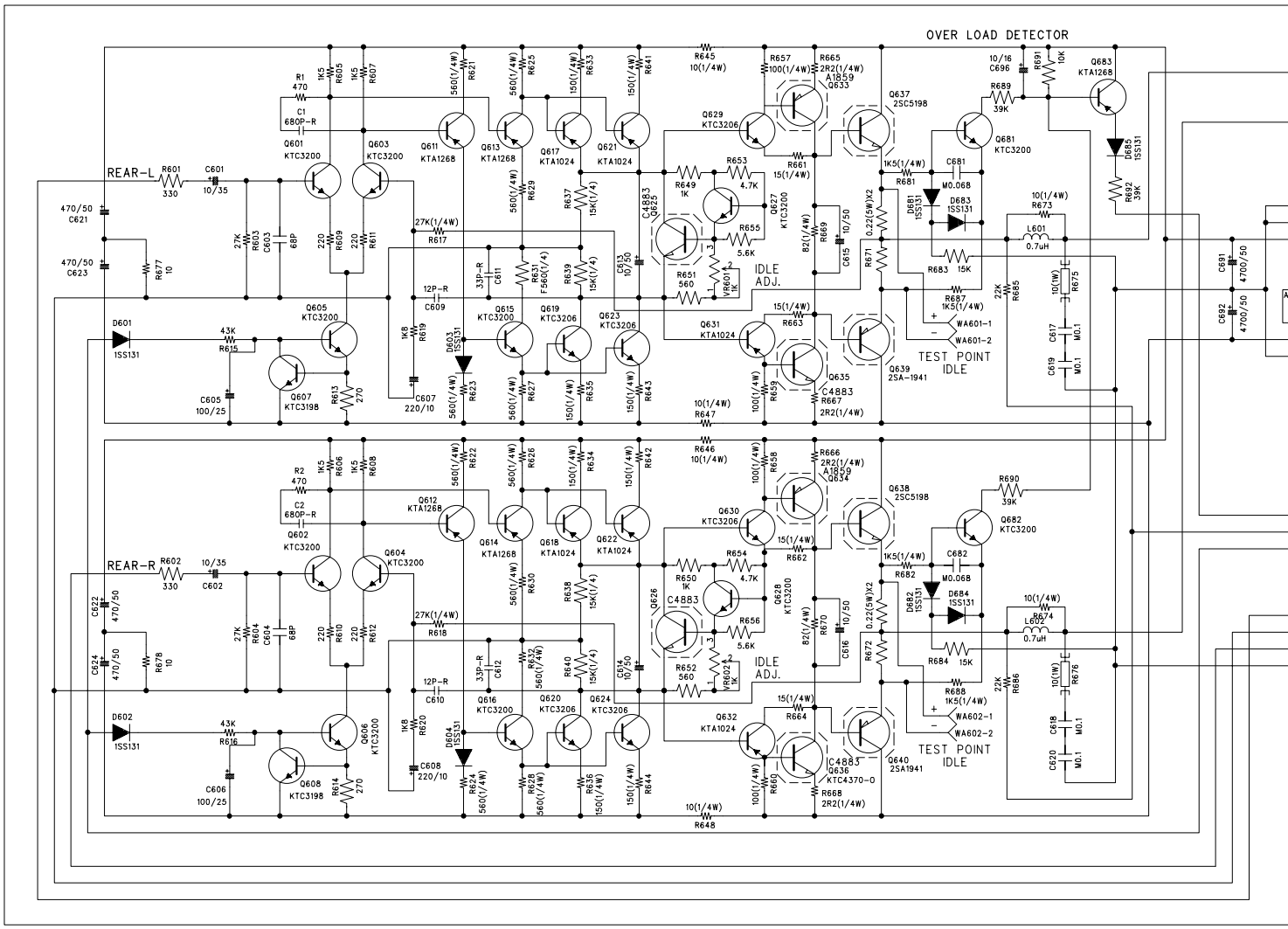


VERSION	DCR600
R995	0
G20	0
FU981	SB5A/125V
AC INPUT	120V/60Hz
JW125	0
JW124	X
C625 C626	X
T981	J2812220012X

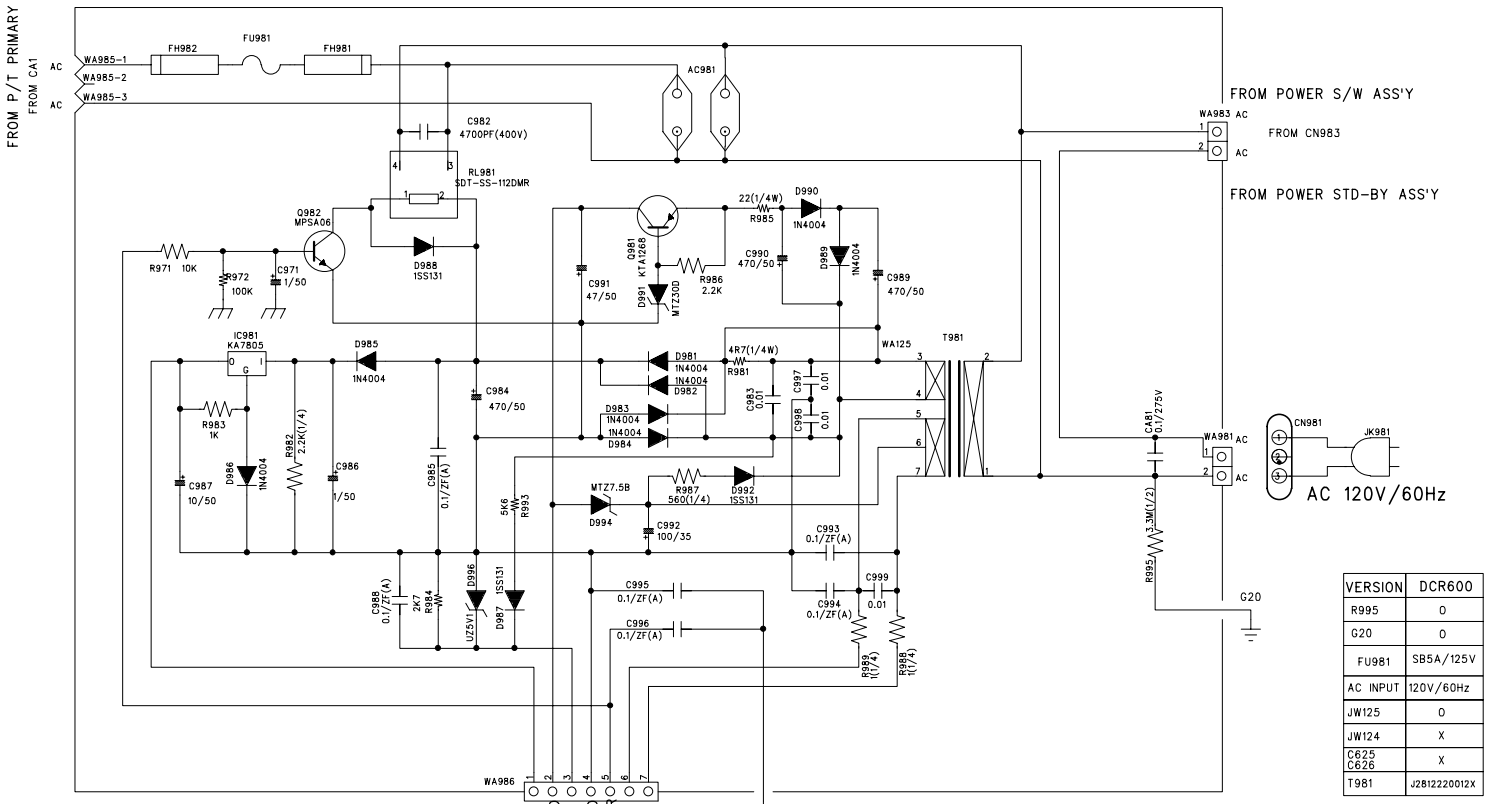
FILENAME	CODE NO.		
SURROUND			
MODEL	DESIGN	CHKD	CHKD
DCR600			
DESIGN DATE			
2001.01.02.			

SURROUND AMP SCHE

REAR AMP ASS'Y



SUB POWER SUPPLY ASS'Y



VERSION	DCR600
R995	0
G20	0
FU981	SB5A/125V
AC INPUT	120V/60Hz
JW125	0
JW124	X
C625 C626	X
T981	J2812220012X

CHEMATIC DIAGRAM

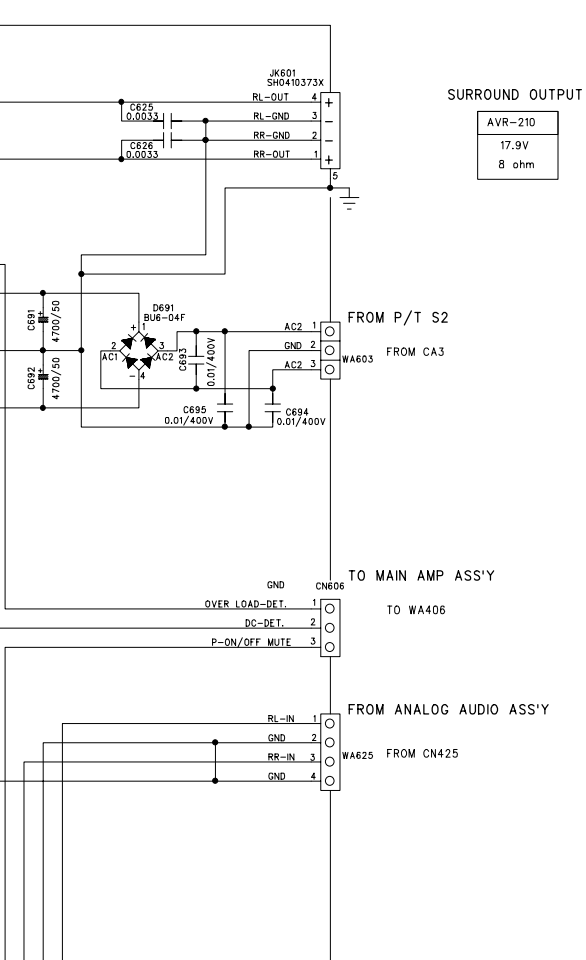
M.P

DCR600

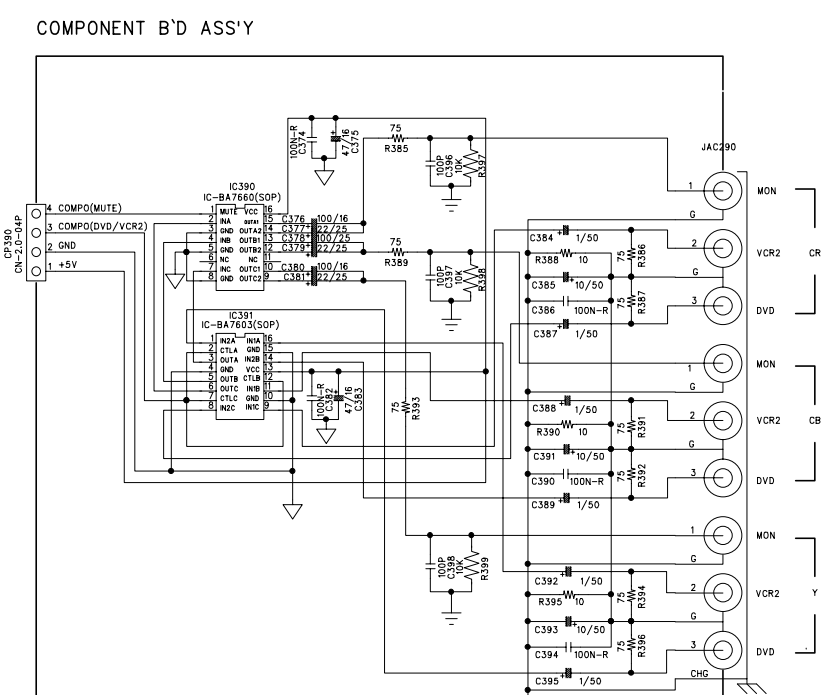
JBL

SURROUND OUTPUT

AVR-210
17.9V
8 ohm



COMPONENT B`D ASS'Y



R600
0
0
A/125V
/60Hz
0
X
X
220012X

CONFIDENTIAL/CONTROL CO

FILENAME	CODE NO.			SI
SURROUND				
MODEL	DESIGN	CHKD	CHKD	A
DCR600				
DESIGN DATE				
2001.01.02.				

DCR600 SCHEMATIC DIAGRAM

M.P

LTR

D

C

B

A

CP602
CN-2.0-08P
1 2 3 4 5 6 7 8
V4-COMPOSITE
V4-Y
V4-C
ST-BY +5V

DVD
VI-IN
V2-IN
V3-IN

RC601 10(SMD)
CC601 10/50
CC602 100N(SMD)
RF602 10(SMD)
CF602 10/50
CF603 100N(SMD)
75(S) RF615
CF601 10/50

RC603 10(SMD)
CC603 10/50
CC604 100N(SMD)

RC608 10(SMD)
CC606 10/50
CC607 100N(SMD)

RC609 10(SMD)
CS607 10/50
CC609 100N(SMD)

75(S) RC602
75(S) RC604
75(S) RC607
75(S) RC610

C613 10/50
C621 10/50
C622 10/50
C614 10/50
C623 10/50
C624 10/50
C616 10/50
C601 10/50
C602 10/50
C617 10/50
C603 10/50
C604 10/50

75(S) RS602
75(S) RS603
75(S) RS605
75(S) RS606
75(S) RS608
75(S) RS609
75(S) RS611
75(S) RS612

IC601
IC-NJM2296
VOUT1 VDD 16
SW5 VOUT2 15
VIN5 SW1 14 AQ1
SW3 VIN1 13
VIN4 GND 12
SW4 VOUT3 11
VIN3 SW2 10 AQ2
VSS VIN2 9

IC602
IC-NJM2296
IC603
IC-NJM2296

AQ5
AQ3
AQ4
AQ1
AQ2
AQ[0:9]

C651 470/10
C650 470/10
C665 470/10
C664 470/10
C653 470/10
C652 470/10

IC619
IC-BU4094(SOP)
VDD ST 1
enable DATA 2
Q5 CLK 3
Q6 Q1 4
Q7 Q2 5
Q8 Q3 6
Q's Q4 7
Qs VSS 8

R699 12K(SMD)
CF611 10/50
C657 100N(SMD)
C699 47/16

75(S) RF616
RF604 10(SMD)
CF605 10/50
CF606 100N(SMD)
CF604 10/50

75(S) RF617
RF612 10(SMD)
CF612 10/50
CF613 100N(SMD)

C615 470/10
C625 470/10
C626 10/50
RC606 75(S)
RS620 75(S)
RS621 75(S)
R621 10K(SMD)
C611 100P(SMD)
R622 10K(SMD)
C612 100P(SMD)
R623 10K(SMD)
C608 100P(SMD)
VI-REC

C618 470/10
C605 470/10
C606 10/50
RC612 75(S)
RS622 75(S)
RS623 75(S)
R624 10K(SMD)
C620 100P(SMD)
R625 10K(SMD)
C619 100P(SMD)
R626 10K(SMD)
C609 100P(SMD)
V2-REC

R671 1K(SMD)
R673 1K(SMD)
R674 1K(SMD)
C637 100P(SMD)
C638 100P(SMD)
C696 100P(SMD)

C647 470/10
C627 470/10
C628 10/50
RC614 68(SMD)
R632 68(SMD)
R633 68(SMD)
R627 10K(SMD)
C640 100P(SMD)
R628 10K(SMD)
C641 100P(SMD)
R629 10K(SMD)
C642 100P(SMD)
MONITOR

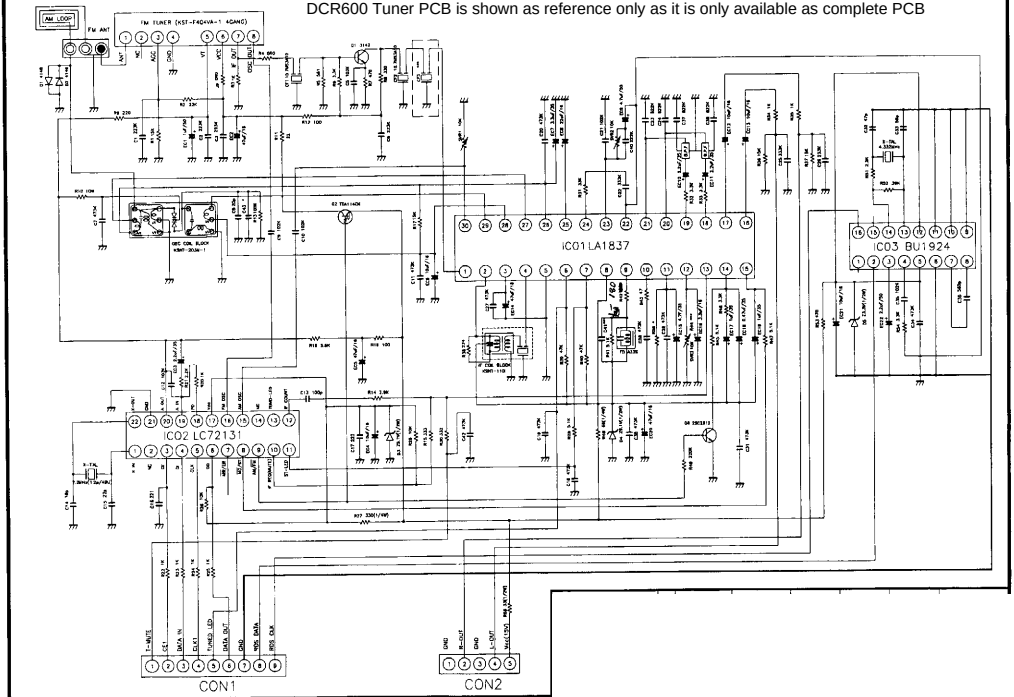
CP601
CN-2.0-16P
1 HP-MUTE
2
3
4
5 4094-CLK
6
7
8
9 BU4094-CE
10 BU4094-DATA
11
12
13 G
14 +5V
15 G
16 -5V

COMPANY:

TITLE:

DRAWN:	DATED:
CHECKED:	DATED:

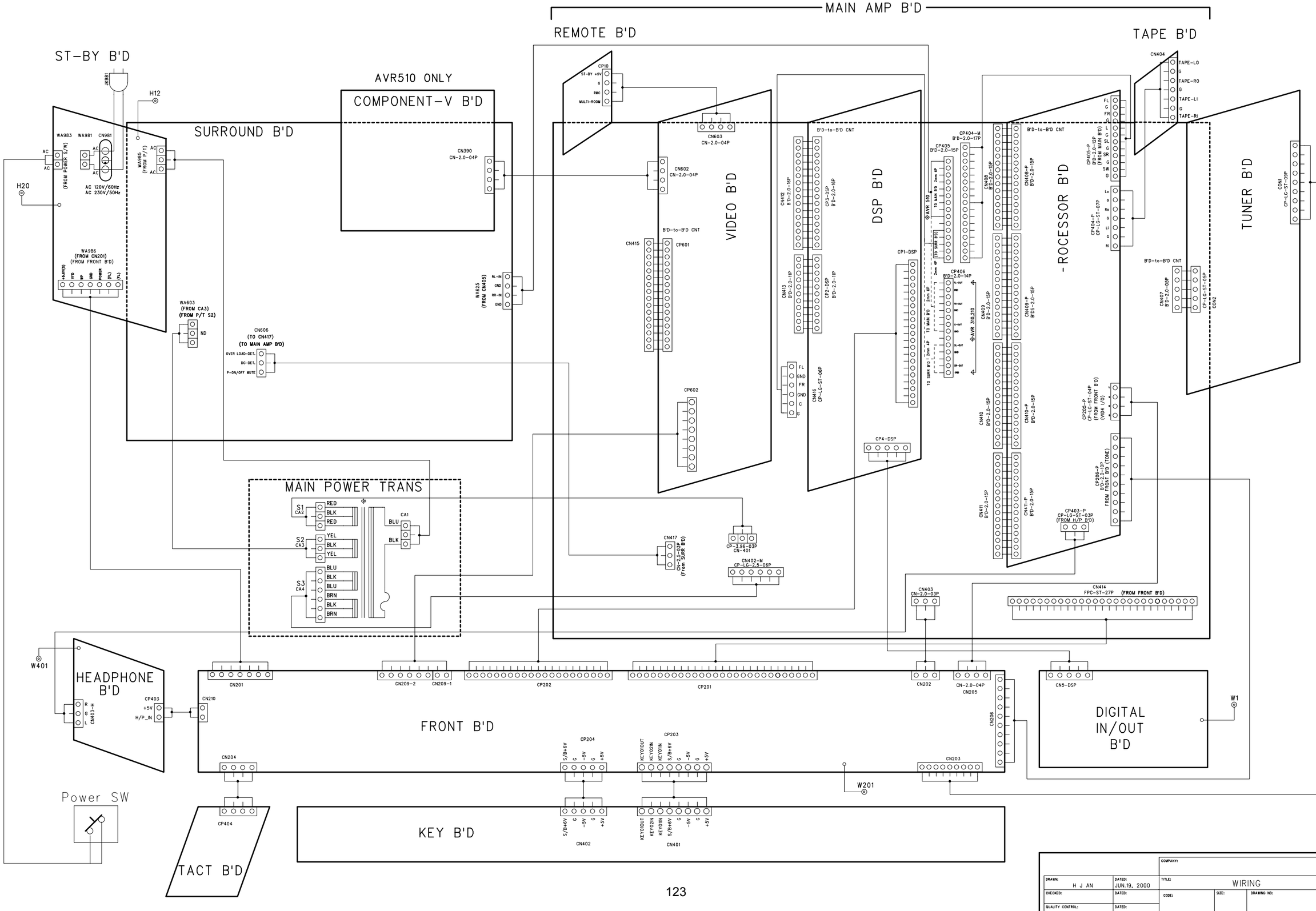
DCR600 Tuner PCB is shown as reference only as it is only available as complete PCB



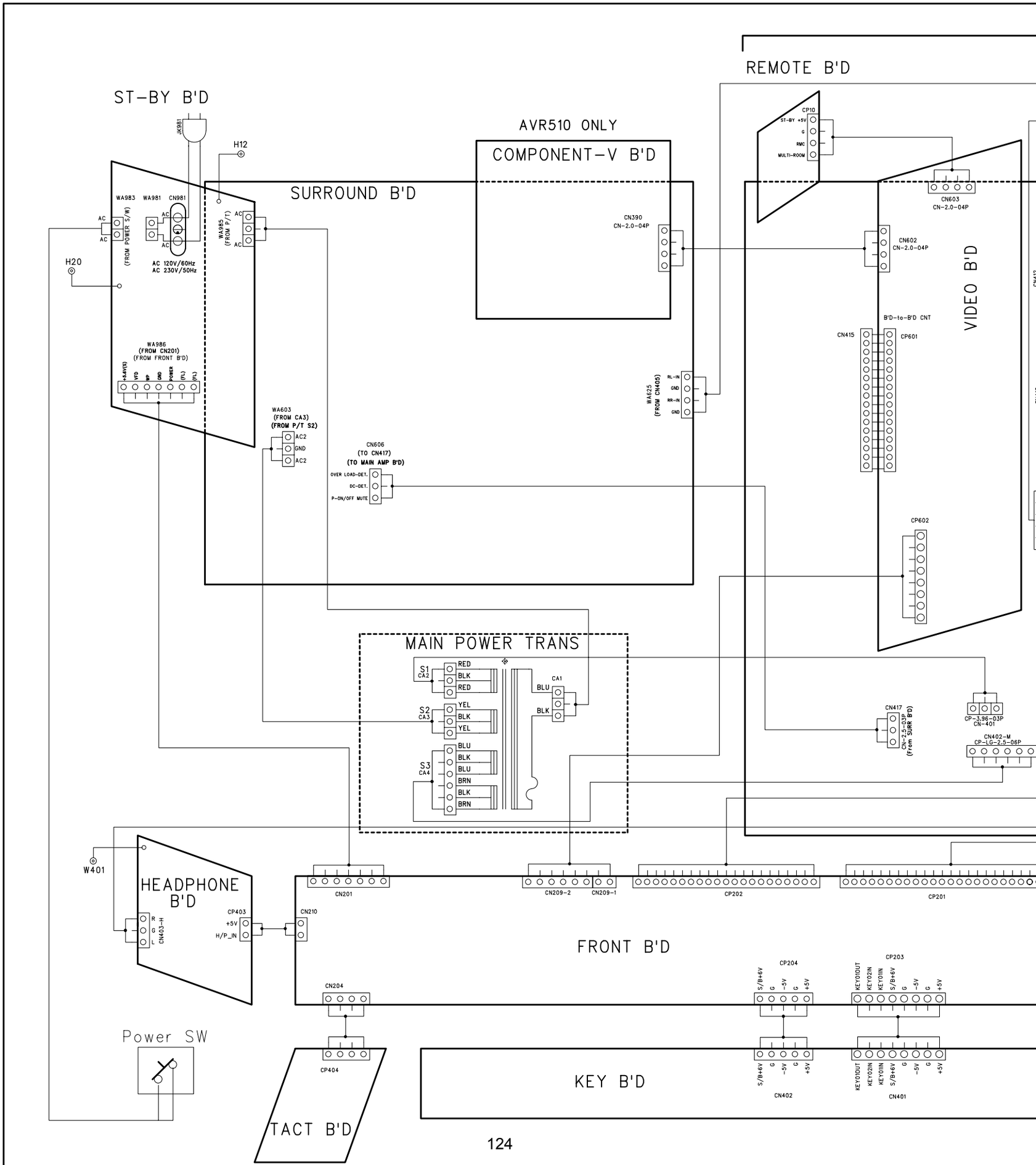
WIRING DIAGRAM

DCR600

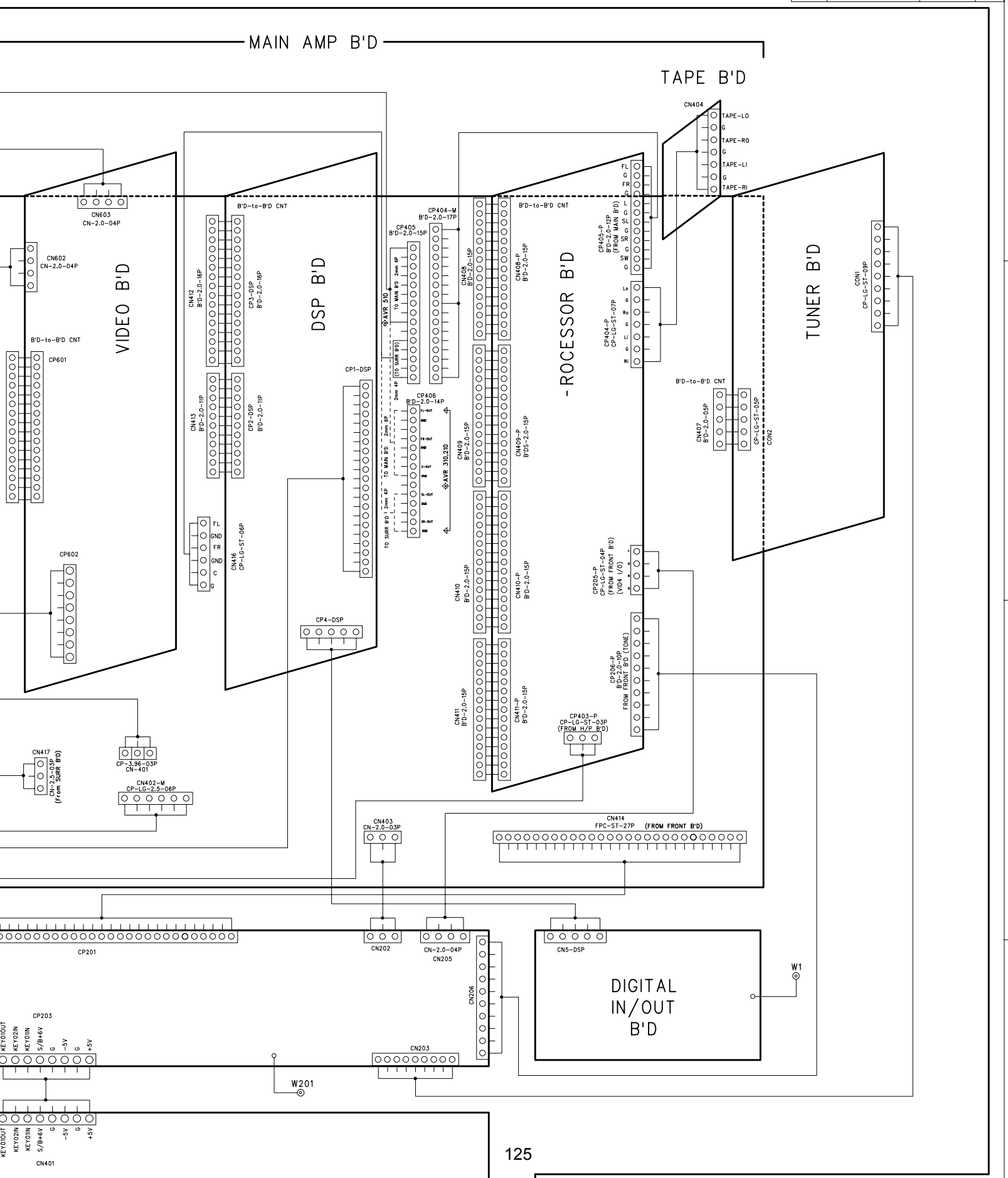
REVISION RECORD			
TR	ECO NO:	APPROVED:	DATE:



COMPANY:			
DRAWN: H J AN	DATED: JUN.19, 2000	TITLE: WIRING	
CHECKED:	DATED:	CODE:	SIZE: DRAWING NO: REV:
QUALITY CONTROL:	DATED:		
RELEASED:	DATED:	SCALE:	SHEET: 1 OF 1


REMOTE B'D
ST-BY B'D
AVR510 ONLY
COMPONENT-V B'D
SURROUND B'D
VIDEO B'D
MAIN POWER TRANS
HEADPHONE B'D
FRONT B'D
KEY B'D
TACT B'D
Power SW
JK981
H12
H20
W401
WA983
WA981
CN981
WA985 (FROM P/T)
(FROM POWER S/W)
AC 120V/60Hz
AC 230V/50Hz
WA986 (FROM CN201) (FROM FRONT B'D)
WA603 (FROM CA3) (FROM P/T S2)
CN606 (TO CN417) (TO MAIN AMP B'D)
OVER LOAD-DET.
DC-DET.
P-ON/OFF MUTE
WA625 (FROM CN405)
CN390 CN-2.0-04P
CN603 CN-2.0-04P
CN602 CN-2.0-04P
CP10
ST-BY +5V
RMC
MULTI-ROOM
B'D-to-B'D CNT
CN415
CP601
CP602
CN417 CN-2.5-03P (From SURR B'D)
CP-3.96-03P CN-401
CN402-M CP-LG-2.5-06P
S1 CA2
S2 CA3
S3 CA4
CA1
RED
BLK
YEL
BLU
BRN
CN201
CN209-2
CN209-1
CP202
CP201
CN210
CP403
CN403-H
CN204
CP404
CP204
CP203
CN402
CN401
S/B+6V
KEY01OUT
KEY02IN
KEY01IN
-5V
+5V

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: