



Model DVD600 5 Disc DVD Changer

From the **JBL CINEMA ProPack 600** system

Preliminary Service Manual



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TECHNICAL SPECIFICATIONS

DVD600

Playback Media: 5-inch (12cm) or 3-inch (8cm)
DVD-Video: Region 1, single or dual sides/layers, linear PCM, Dolby Digital, or DTS
CD, CD-RW: Linear PCM Audio
Video CD (VCD): MPEG-1 Video, Linear PCM Audio

Video Section:
Signal format: NTSC
Composite Output: 1V p-p/75 ohms, sync, negative polarity
S Output: Y/Luminance: 1V p-p/75 ohms, sync, negative polarity
C/Chrominance: 0.286V p-p
Component Outputs: Y: 1V p-p/75 ohms, sync, negative polarity
Pr: 0.648V p-p/75 ohms
Pb: 0.648V p-p/75 ohms

Audio Section:
Coaxial Digital Output: 0.5V p-p/75 ohms
Frequency Response: 2Hz to 22kHz, +/- 0.5dB (44.1kHz sampling rate)
Dynamic Range: DVD: 105dB (20-bit)
CD: 100dB
Channel Separation: 90dB
THD: 0.0035%
Signal-to-Noise Ratio: 100 dB
Wow and Flutter: below measurable limits
General:
Unit Power Consumption: 25W
Unit Dimensions: Width: 17.3 inches (440mm)
Height: 5.1 inches (130mm)
Depth: 16.9 inches (420mm)
Unit Weight: 14.4 lb (7.6kg)

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

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Quick Setup Guide to Using the DVD600 (with the DCR600)

The DVD600 can play discs in the following formats:

- Both 5-inch (12cm) and 3-inch (8cm) discs
- CD audio discs • DTS audio discs
- CD-RW audio discs • DVD movie discs
- VCD video compact discs

However, it cannot play:

- DVD discs with a Region Code other than "1" or "All"
- DVD discs using PAL format video
- DVD-ROM data discs
- DVD-RAM discs • CD-R discs
- CD-I discs • CD-G discs
- SVCD discs • Photo CD discs
- MP3 audio discs

Press the DVD600's **Power Switch 1D** so that it latches and the **Status Indicator 2D** turns amber, indicating that the unit is in the Standby mode. Turn the unit on by pressing either the **Power On Button 2** on the remote or the **Open/Close Button 6D** or **Play Button 10D** on the front panel. The **Status Indicator 2D** will turn green.

Open the DVD600's drawer, and insert up to 5 discs in the tray locations, using the **Disc Skip Button 51 4D** to rotate the carousel to access all locations. Make sure each disc is loaded with the label side up, and that it is seated correctly in its location.

When you close the drawer, the DVD600 will automatically start playing the first disc it recognizes, whether it is a CD or DVD disc. However, whichever type of disc is playing, make sure that you have selected DVD as the input source on the DCR600 by pressing **4** on the remote, or **11** on the front panel of the receiver until DVD is indicated.

For most discs, the DVD600 and DCR600 will automatically select the correct surround mode. To make sure that audio in the DTS audio format is correctly processed, you must choose that format as the default in the DVD600's setup menu. Simply stop play of the disc, and enter the setup menu by pressing **26** on the remote. Use the **▲/▼ Buttons 25 31** to scroll down to **Digital Audio Output**. Press the **Set Button 28** to select this option, and a screen will pop up, allowing you to choose from PCM, Dolby Digital or DTS outputs. Use the **▲/▼ Buttons 25 31** to highlight DTS, then press

the **Set Button 28** to select this choice. You do not need to reset the audio output for other formats. The DCR600 and DVD600 will automatically process PCM, Dolby Digital and DTS signals correctly. Press the **Menu Button 26** to exit the menu screen. If you press the **Menu Button 26** while the disc is playing, you can access the disc's menu to choose the DTS format there as well.

You may wish to experiment with surround modes other than Dolby Digital and DTS using the DCR600's functions. Press the **Surround Mode Selector 20 7** to scroll through such choices as Dolby Pro Logic, Dolby 3 Stereo, 5-Channel Stereo, Hall, Theater, VMaX, Logic 7 or Surround Off (Stereo). See page 52 for descriptions of these modes.

Press the **Stop Button 8D 61** once to enter Resume mode, in which play will resume from the point where it was stopped. Pressing the **Stop Button 8D 61** twice will cause play to resume from the beginning of the disc, or the disc's main menu.

You may wish to listen to the tracks of a CD, or view the chapters of a DVD, in a different order than they appear on the disc.

The Random function will play all of the tracks on one CD, or all of the chapters on one DVD, in a random order selected by the DVD600. The DVD600 does not randomly play selections from all five discs inserted in its tray, since this might result in the odd experience of alternating among audio tracks and disjointed video selections. Simply press the **Random Button 50** once to start random play, and press it again to return to standard play, using the disc's main menu.

The DVD600 offers several variations of Repeat Play: **Repeat All** discs in the unit once; **Repeat 1 Disc** until play is manually stopped; **Repeat Title** on a DVD disc until play is manually stopped; **Repeat Track/Chapter** on either a CD or DVD disc until play is manually stopped; and **Repeat A–B**, which repeats a programmed selection until play is manually stopped.

Press the **Repeat Button 55** to scroll through the repeat choices. Repeat play can be stopped by pressing the **Repeat Button 55** until Repeat Off is selected, or by pressing the **Stop Button 61 8D** twice.

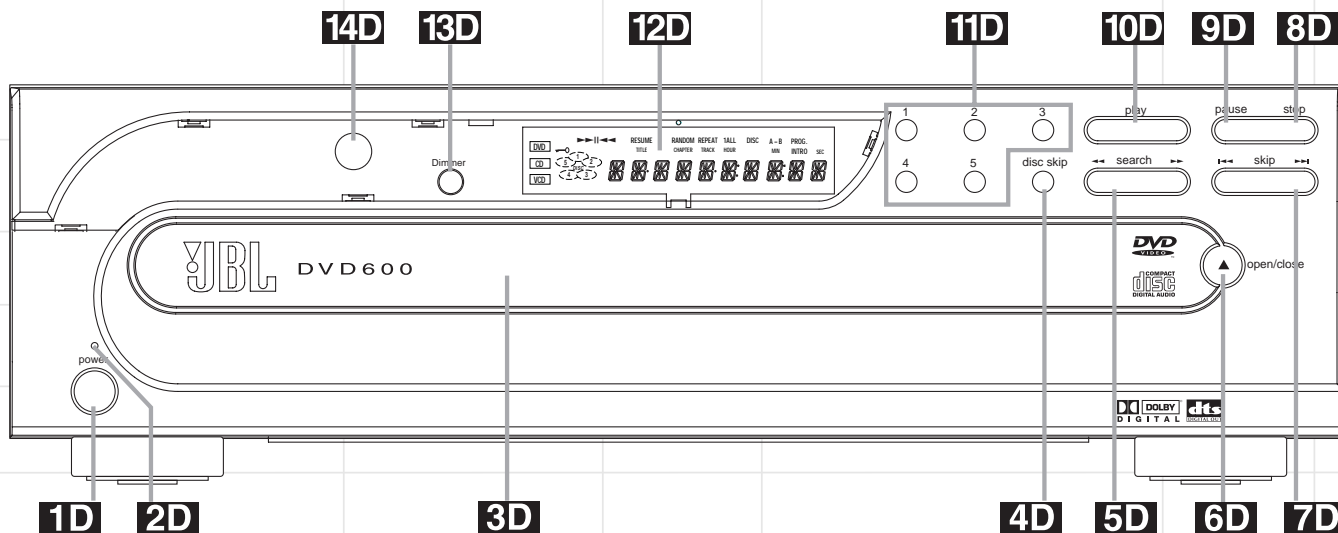
Program the Repeat A–B function while a disc is playing. Press the **Repeat A–B Button 53** at the start of the passage to be repeated, and press it again at the end of the passage. The passage will continue to play until the **Stop Button 61 8D** is pressed.

You can also program play lists of selected tracks or chapters.

1. Select the DVD600 by pressing the **DVD Button 4**, and press the **Program Button 46** to bring up the Program Edit Screen.
2. Use the **▲/▼ 25 31** keys to select a disc number, and press either **Set 28** or **▶ 29** to enter the selection and move to the next option.
3. Use the **▲/▼ 25 31** keys to select a track (for a CD) or title (for a DVD), and press either **Set 28** or **▶ 29** to enter the selection and move to the next option. If "99" appears, it means the DVD600 has not read the disc yet to determine whether it is a CD or DVD.
4. For DVDs only, use the same procedure to enter a chapter.
5. The next choice is to add the selection to the play list by pressing the **Set Button 28**.
6. Repeat Steps 2–5 to enter up to 25 selections into the play list.
7. Play the list by using the arrow keys to highlight the Play selection, and the **Set Button 28** to begin play. Press the **Stop Button 61** twice to stop playback of the list. To cancel the list, press the **Clear Button 47**.
8. To delete a selection, highlight the item to be deleted, press the **Set Button 28**, and then use the **▲/▼ 25 31** keys to choose the **Delete Button**. Press the **Set Button 28** again to delete it. Alternatively, highlight the item and press the **Clear Button 47** to delete it.
9. Insert an entry by highlighting the item in the play list at the point of insertion, pressing the **Set Button 28**, and using the **▼ 31** key once to select the Insert option. Follow Steps 2 through 5 above to enter the new selection. You may also edit an entry by pressing the **Check Button 53** twice to step through the items in a play list. Use the **◀▶ 27 29** keys to choose a disc, track or chapter to be edited, and the **▲/▼ 25 31** keys to make a change.

This completes the quick setup and operation of your JBL Cinema ProPack 600 system. Additional information is provided in the following sections for those users with additional components, or who wish to make other, more advanced adjustments to their system.

DVD600 Front Panel Controls



1D Power Switch: Press to apply power to the DVD600. When the unit is first turned on, the **Status Indicator 2D** will turn amber, indicating that it is in Standby mode. To turn the unit on, press the **Open/Close Button 6D** or **Play Button 10D**, or use the remote control to select **DVD 4**, and then power the unit on **2**.

2D Status Indicator: When the DVD600 is in the On mode, this indicator will glow green. When the unit is in Standby, the indicator will glow amber.

3D Disc Tray: Holds up to five DVD or CD discs that can be played one at a time in the DVD600.

4D Disc Skip: Press to change the disc being played. Each press of the button will move the tray forward to the next occupied position in the tray, skipping over the empty disc positions.

5D Search Forward/Reverse: Press to move forward or backward through a disc at one of four speeds. Each press and release will increase the search speed, as indicated in the

on-screen display. Once you have selected the desired speed, release the button and the disc will continue to search at fast speed. To resume normal playback speed, press the Play button.

6D Open/Close Button: Press to open or close the **Disc Tray 3D**.

7D Skip Forward/Reverse: Press to move forward or backward through the music tracks or chapters on a disc.

8D Stop: Press once to place the disc in the Resume mode, which means that playback will stop, but (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 is pressed again. Resume will also work if the unit was turned off. To stop a disc and have play start from the beginning, press the button twice.

9D Pause: Press to momentarily pause playback. To resume playback, press the button again, or press the **Play Button 10D**. If a DVD is playing, action will freeze and a still

picture will be displayed when the button is pressed.

10D Play: Press to begin playback of a disc, or to resume playback after the **Pause Button 9D** has been pressed.

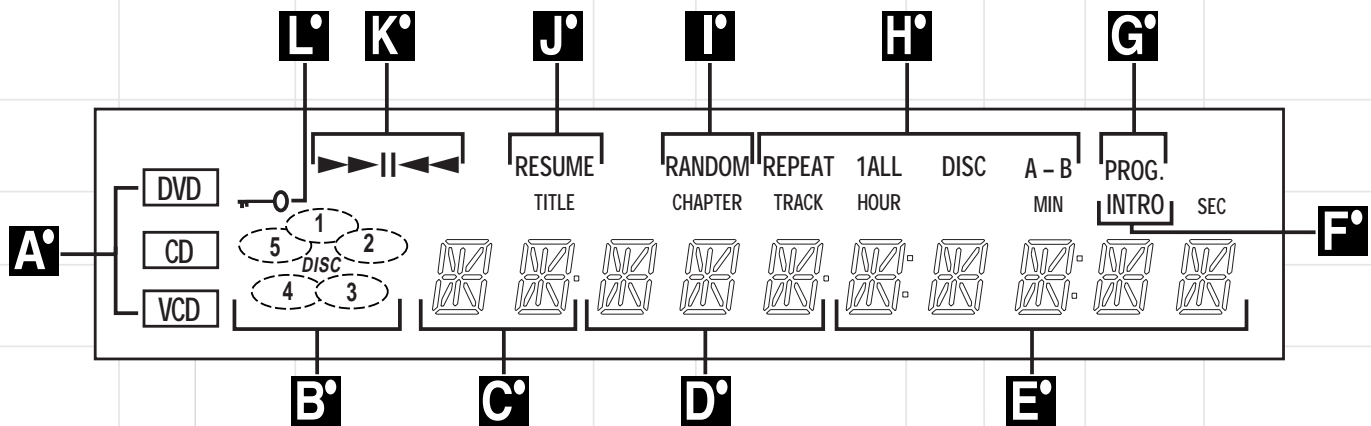
11D Direct Access Buttons: Press one of these buttons to play any of the five discs loaded in the Disc Tray.

12D Information Display: This display contains a variety of indicators that provide information about the status of the DVD600 and the disc currently playing.

13D Display Dim: Press this button to adjust the brightness of the Information Display by 50% or to turn the display off completely in the following order: FULL BRIGHTNESS → HALF BRIGHTNESS → OFF → FULL BRIGHTNESS.

14D Remote Sensor: The sensor that receives the infrared commands from the remote control is behind this area. Do not cover or obscure this part of the front panel, in order to avoid a malfunction with the remote.

DVD600 Front Panel Information Display



A Disc Type: Lights to show the type of disc currently being played.

B Disc Number: Shows if a disc is loaded in a tray position. The indicator for the disc in play flashes. Note that if a disc is added to, or removed from, the tray while a disc is playing, the indicator will not show the change until all discs are cycled.

C Title: Shows the DVD title number currently playing.

D Chapter/Track Number: Shows the current chapter (DVD) or current track number (CD).

E Program Time: Shows the running time of a DVD or current track time, time remaining in the current track, or the total remaining time of a CD.

NOTE: The Program Time Indicators will also display text messages about the DVD600's status, including **Reading** when a disc is loading, **Bye** when the unit is turned off, and **Disc Error** when a disc not compatible with the DVD600 is put into the play position.

F Intro: Lights when the Intro Scan function is active.

G Program: Lights during programming.

H Repeat: Lights to indicate any of the Repeat modes.

I Random: Lights when the unit is in the Random Play mode.

J Resume: Lights when the Stop button has been pressed once to put the unit in the Resume mode.

K Playback Mode: Lights to show the current playback mode:

▶ Lights when a disc is playing in the Normal mode.

▶▶ Lights when the disc is in the Fast Search Forward mode. For DVDs, when both triangles glow steadily, the disc plays at 2x normal speed. When the right triangle is flashing, the disc plays at 4x normal speed. When the left triangle is flashing, the disc plays at 8x normal speed. When both triangles are flashing, the

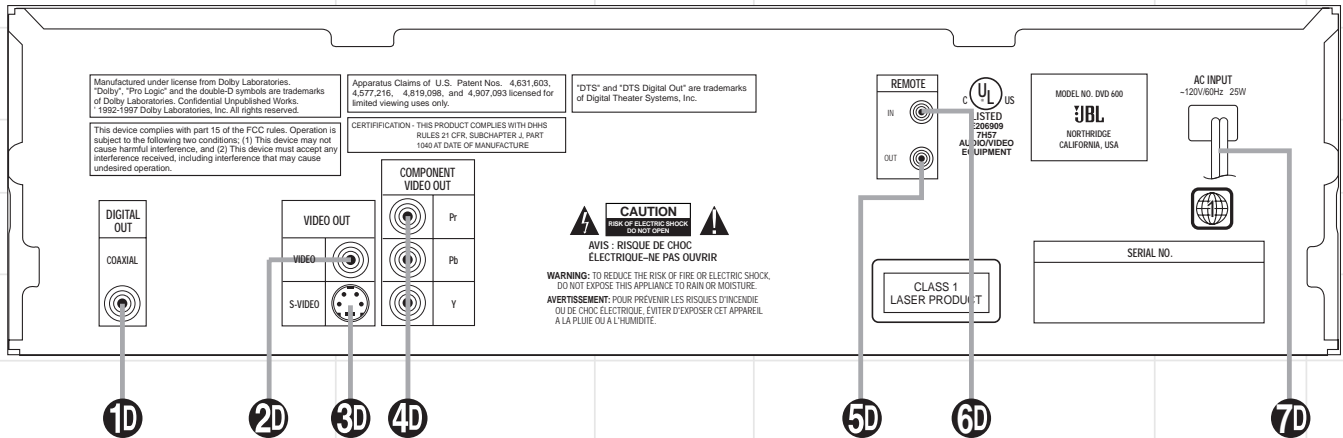
disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.

▶|| Lights when the disc is paused.

◀◀ Lights when the disc is in the Fast Search Reverse mode. For DVDs, when both triangles glow steadily, the disc plays at 2x normal speed. When the left triangle is flashing, the disc plays at 4x normal speed. When the right triangle is flashing, the disc plays at 8x normal speed. When both triangles are flashing, the disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.

L Parental Lock Indicator: This indicator lights when the parental-lock system is engaged in order to prevent anyone from changing the rating level without a code.

DVD600 Rear Panel Connections



1D Coaxial Digital Output: Connect this jack to the coaxial digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.

NOTE: The coaxial digital output should only be connected to a digital input. Even though it is the same RCA-type connector as standard analog audio connections, DO NOT connect it to a conventional analog input jack.

2D Composite Video Output: Connect this jack to the video input on a television or video projector, or to a video input on an A/V receiver or processor if you are using that type of device for video input switching.

3D S-Video Output: Connect this jack to the S-Video input on a television or video projector, or to an S-Video input on an A/V receiver or processor if you are using that type of device for S-Video input switching.

4D Component Video Outputs: If your TV or video projector has component video inputs, you may connect these output jacks to the set for the highest video quality available. Note that the component video inputs may be labeled as Y/Pr/Pb or Y/Cr/Cb but, for connection purposes, they are the same. The outputs of these jacks should NOT be connected to a standard composite video input.

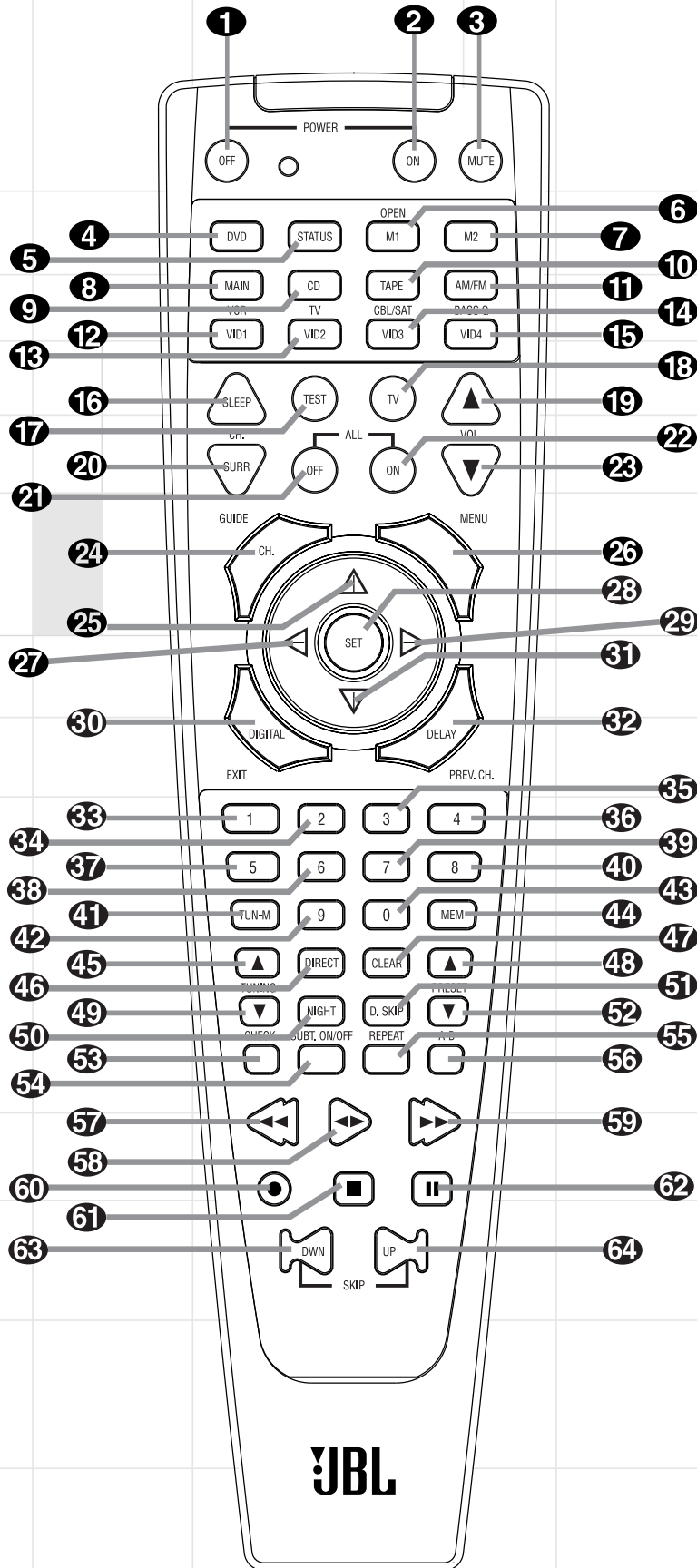
5D Remote Control Output: Connect this jack to the infrared (IR) input jack of another JBL or other compatible remote-controlled product to have the built-in **Remote Sensor 14D** on the DVD600 provide IR signals to other compatible products.

6D Remote Control Input: Connect the output of a remote infrared sensor, or the remote control output of another JBL or other compatible product, to this jack. This will enable the remote control to operate even when the front

panel **Remote Sensor 14D** is blocked. This jack may also be used with compatible IR remote control-based automation systems.

7D AC Power Cord: Connect this plug to an AC outlet. If the outlet is controlled by a switch, make certain that it is in the ON position.

Remote Control Functions (To control the DVD600 and DCR600)



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 (⓪) 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 58 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**  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 (both the DVD600 and DCR600)

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	<ul style="list-style-type: none"> No AC Power 	<ul style="list-style-type: none"> Make certain AC power cord is plugged into a live outlet. Check to see whether outlet is switch-controlled.
DVD600 does not turn on	<ul style="list-style-type: none"> Main Power Switch turned off No AC power 	<ul style="list-style-type: none"> Press in Main Power Switch. Check AC power plug and make certain any switched outlet is turned on.
Display lights, but no sound	<ul style="list-style-type: none"> Intermittent input connections Mute is on Volume control is down 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Display brightness is turned off 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Amplifier is in Protection mode due to possible short Amplifier is in Protection mode due to internal problems 	<ul style="list-style-type: none"> Check speaker wire connections for shorts at receiver and speaker ends. Contact your local JBL service center.
No sound from any speaker	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • Balance is not at "12 o'clock" • No audio signal is being transmitted to the speakers 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Incorrect surround mode • Input is monaural • Stereo or Mono program material 	<ul style="list-style-type: none"> • 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. • There is no surround information from mono sources. • 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. • 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. • 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	<ul style="list-style-type: none"> • Speaker impedances are dropping too low for receiver to handle 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Speakers are connected out of phase • Subwoofer not activated • Subwoofer output of DCR600 not enabled 	<ul style="list-style-type: none"> • Make sure the connections to the left and right Speaker Inputs have the correct polarity (+ and -). • Make sure the subwoofer is plugged into an active electrical outlet and turned on. • 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	<ul style="list-style-type: none"> • Weak batteries in remote • Wrong device selected • Remote sensor is obscured 	<ul style="list-style-type: none"> • Change remote batteries. • Press the Main 8 or DVD 4 selector. • Make certain front panel sensor is visible to remote or connect remote sensor.
Intermittent buzzing in tuner	<ul style="list-style-type: none"> • Local interference 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Digital audio feed paused 	<ul style="list-style-type: none"> • Resume play for DVD. • Check that Digital Input is selected.

Troubleshooting (Continued)

Disc does not play	<ul style="list-style-type: none"> • Disc loaded improperly • Incorrect disc type • Invalid Region Code • Rating is above parental preset 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Intermittent connections • Wrong Input 	<ul style="list-style-type: none"> • Check all video connections. • Check input selection of TV or DCR600.
Picture is distorted or jumps during Fast Forward or Reverse Play	<ul style="list-style-type: none"> • MPEG-2 decoding 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Function not available for this disc 	<ul style="list-style-type: none"> • Some discs do not include all DVD features.
The menu is in a foreign language	<ul style="list-style-type: none"> • Incorrect menu language 	<ul style="list-style-type: none"> • Change menu language selection.
“Ø” symbol appears	<ul style="list-style-type: none"> • Requested function not available at this time 	<ul style="list-style-type: none"> • Certain functions may be disabled during passages of a disc.
Picture is displayed in the wrong aspect ratio	<ul style="list-style-type: none"> • Incorrect match of aspect ratio settings to disc 	<ul style="list-style-type: none"> • Change Aspect Ratio settings.
Disc will not copy to VCR	<ul style="list-style-type: none"> • Macrovision protection 	<ul style="list-style-type: none"> • Most DVDs are encoded with Macrovision to prevent copying to VCR.

Troubleshooting Model : DVD600

NOTE: DVD600 Power Supply module, JBL part# J4090000050X is supplied only as a complete unit.

1) **Power.** : When the ST/BY +5V of Front is transmitted to Power control port, the power of SMPS will be switched. And unit turns on.

- Check point : Power control port : CP214, 1pin
- Actually the input power is +3.5V, and if the unit does not turn on, all the power which supplies for Main is OFF.

2) **Communication between Front CPU and STI5505**

- Check point : CN208 & RXD/TXD port.
- When the Main Board system is initializing, Sti5505 dispatches data to Front CPU in order to wake it up.
- If the 1)power and 2)communication between Front CPU and Sti5505 are normal, but still there are Open/short errors, so we call " Power on" error, it because can not wake up Front CPU.
! RXD/TXD : Receiving / Transfer data port (Main = RXD, Front TXD at PCB)

3) **Operation of STI5505**

- Checking of each RAMs (Flash/DRAM → SDRAM) / EEPROM. => At this time, SCL/SDA should be High. If they are low, the Sti5505 is not waken up.
- In case of Sti5505 does not wake up properly, Main clk (27.0MHz) is normal, but SDRAM clk is not normal.
- Check point : R350
- When initialize MECHA by reset, the CPU of Front-end is in initial operation.
(Pick up down → rotating Roulette/ sensing → Disc sensing → Roulette fixed → Pick up → ST/BY mode)

4) **Main and Flash reset**

- Check point : C312

5) **If you find any problems for operation initializing , after being satisfied above condition, need to check Mecha control line**

- Check point : CP206, power and connection including soldering.

6) **Test screen (color bar) / initial screen (stop screen : Vendor Logo screen)**

- **Test screen** : All data but Logo screen is taken care by SDRAM.
→ Also you can easily check with using 2keys on Front Panel. (! Already issue data regarding these two keys)
- Also, this mode is used for RESET as initial default value regarding Set up menu which is in EEPROM(M24C02)
- Set up menu Reset : OSD user Menu → user setting → restoration default value.
Ex.) Password...
- **Vendor Logo screen** : When Power on, the Logo screen which is in Flash-RAM goes to DRAM.
- Thus, if the initial logo screen is not been displayed, it because of DRAM line.
Regarding MP set → it may be caused from poor soldering.

7) **Audio.**

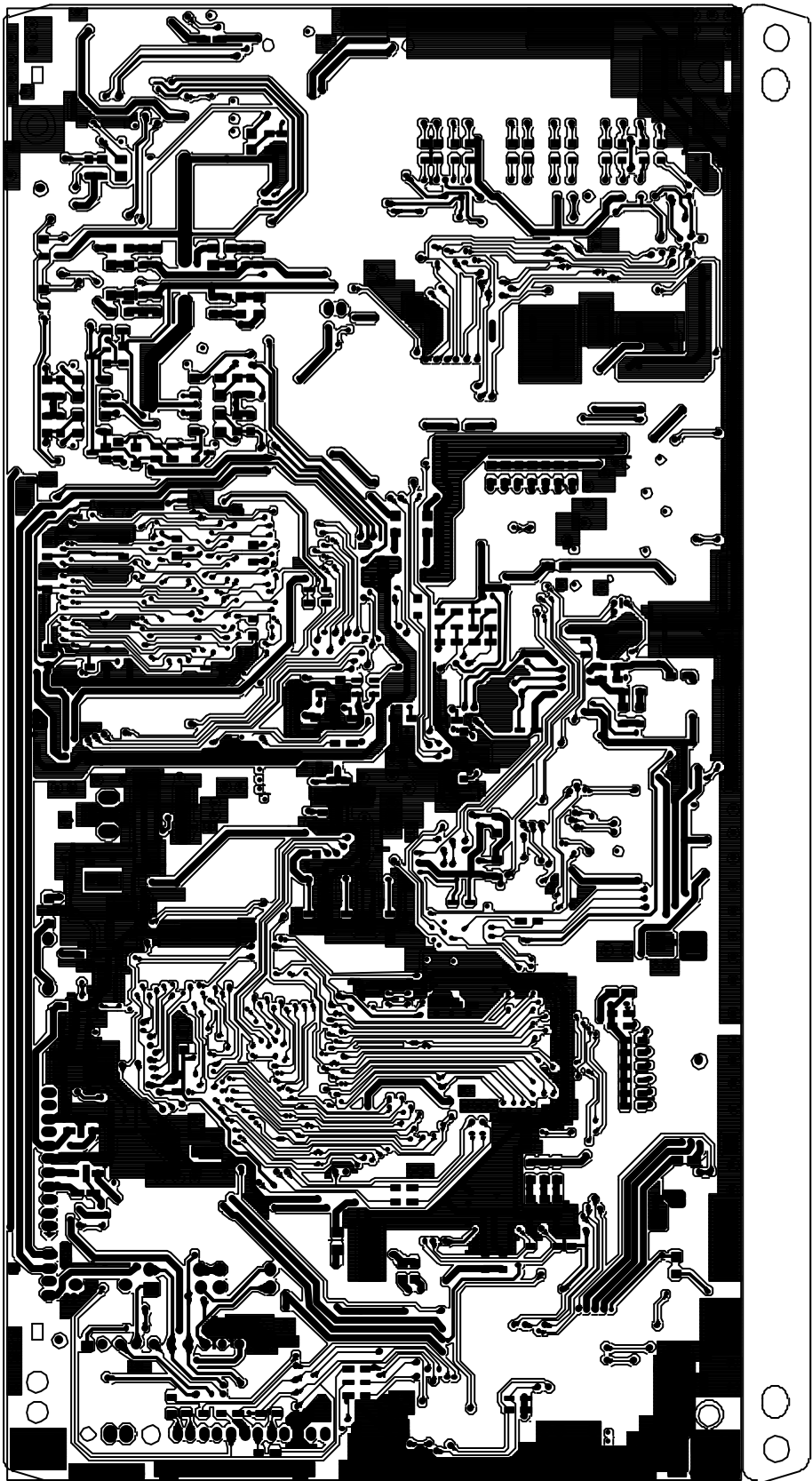
- Serial data(24bit/fs =48KHz) is transmitted to AK4393(DAC) at Sti5505.
- If set does not make any image on screen also audio data does not come out.
DATA Process:
Serial data +/-L/ R L / R double-mute
Sti5505 → AK4393 → CH mixing AMP → Gain AMP → Audio Out
- Mute : Double-mute at Out board. (Mute power ← ST/BY +5V).

8) **Video.**

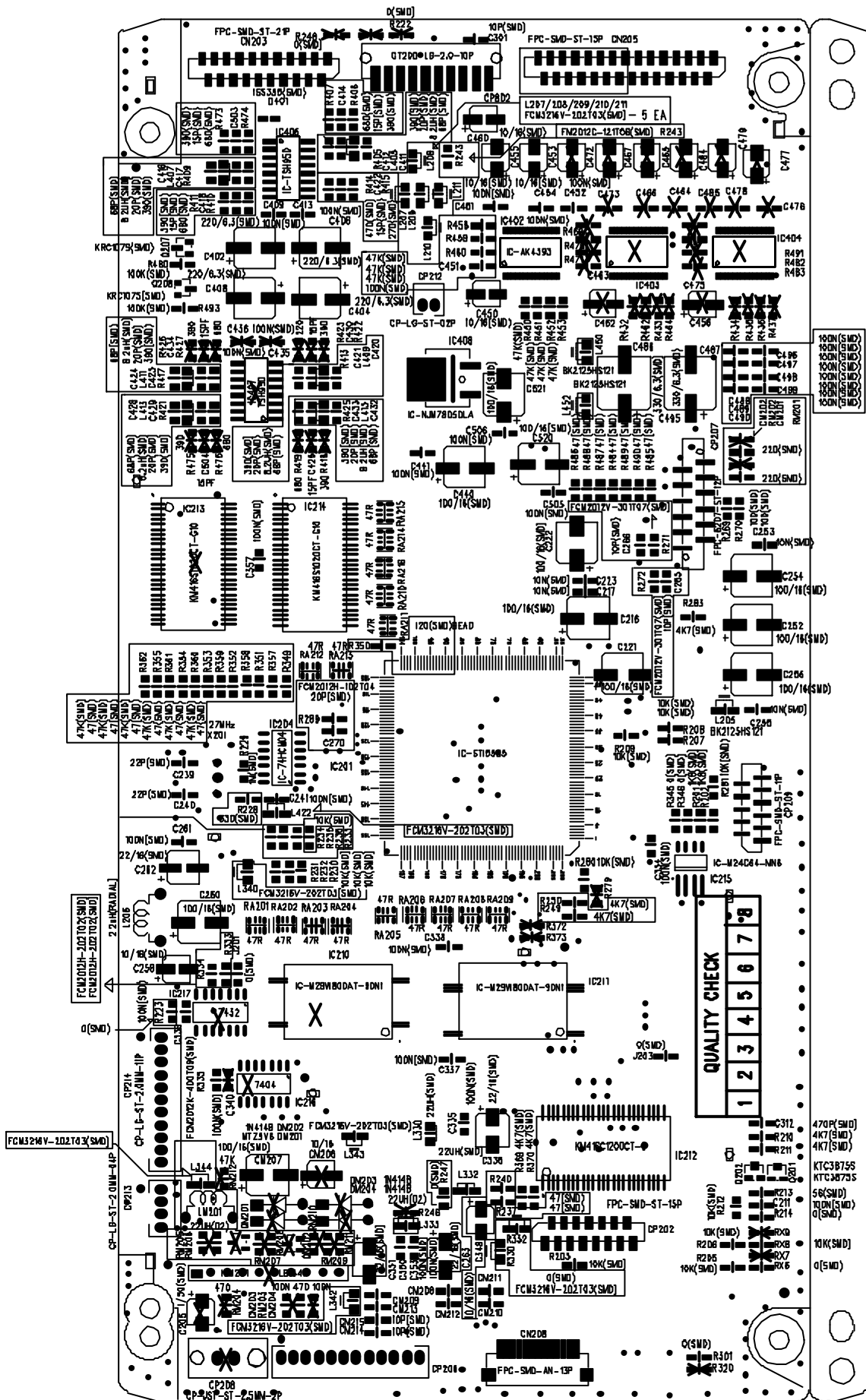
- The data is taken care by SDRAM. Need 8M for NTSC & need 16M for PAL.
- Sti5505(Decoder – video signal:C-V, COMPOSITE, COMPONENT) → TSH95(Video 6dB gain AMP) → Output.
- TSH95 : handling ST/BY mute by switching bias at internal AMP. → check point : #8 and #9 Pin.
- If ST/By +5V,Mute power, is dropped , Mute will be on and it causes no signal on screen or only see black and white screen intermittently.
- Mute on : 8(H) / 9(L). Mute off : 8(L) / 9(H) → High power should be over than 2.5V
- ST/BY +5V power is dead if Diode (1N4004) on Front board burn.

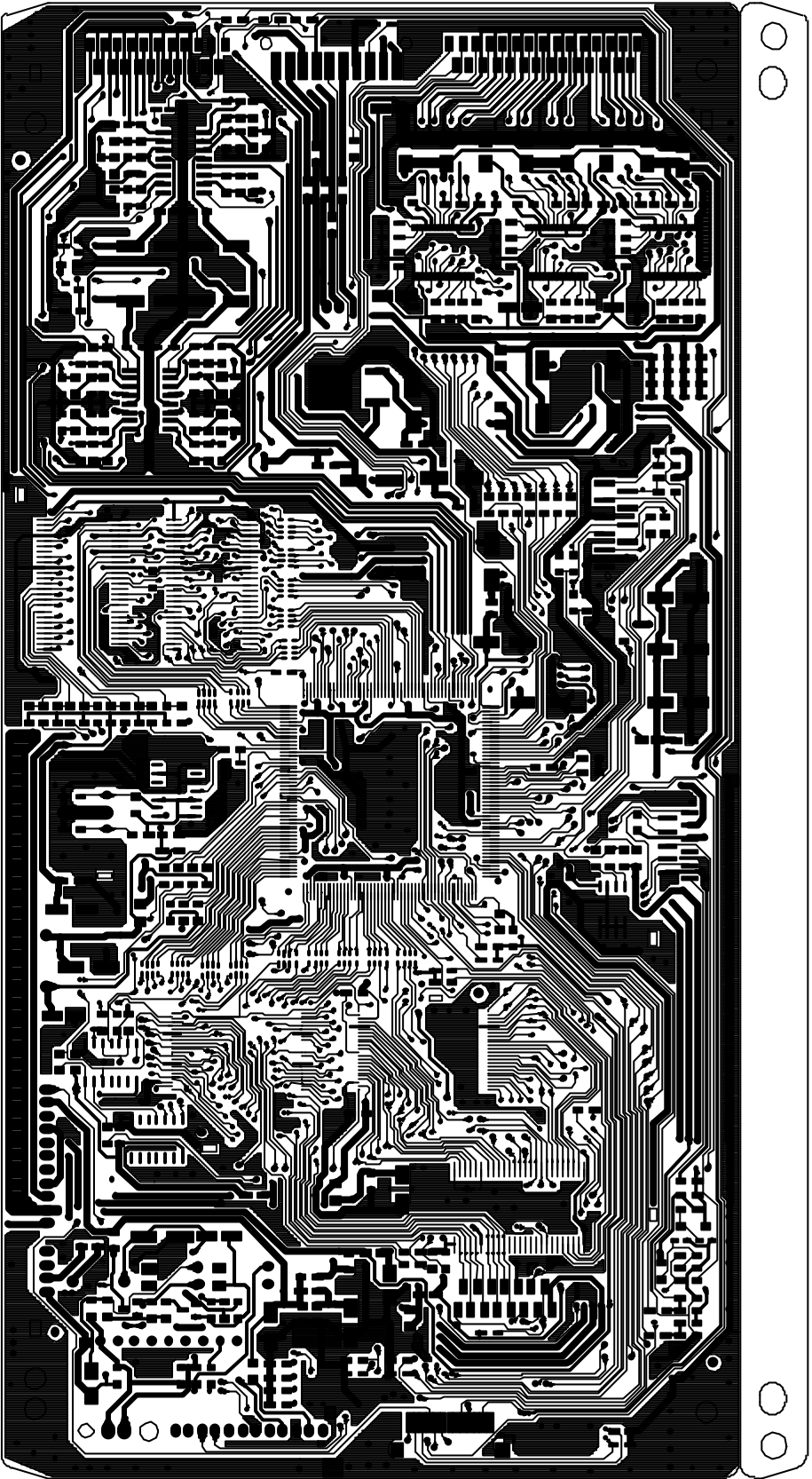
9) **Digital output (Coaxial)**

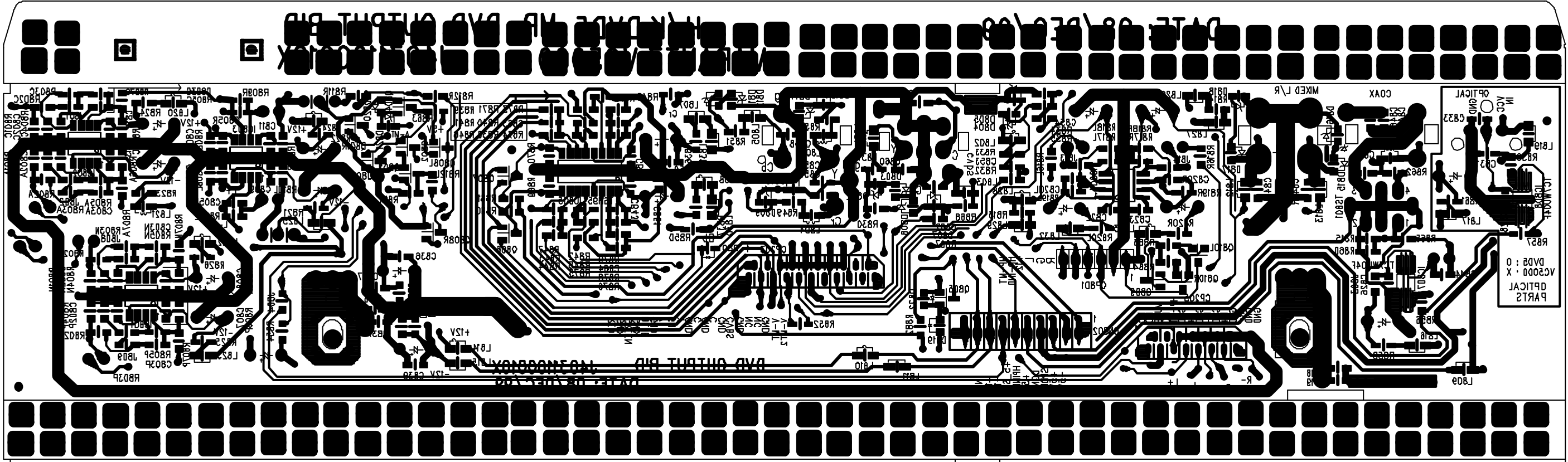
- * High speed inventor → Pulse Trans(TS801: purpose impedance matching).



/*DVD5.VC5000_US TOP INSERT DRAWING*/

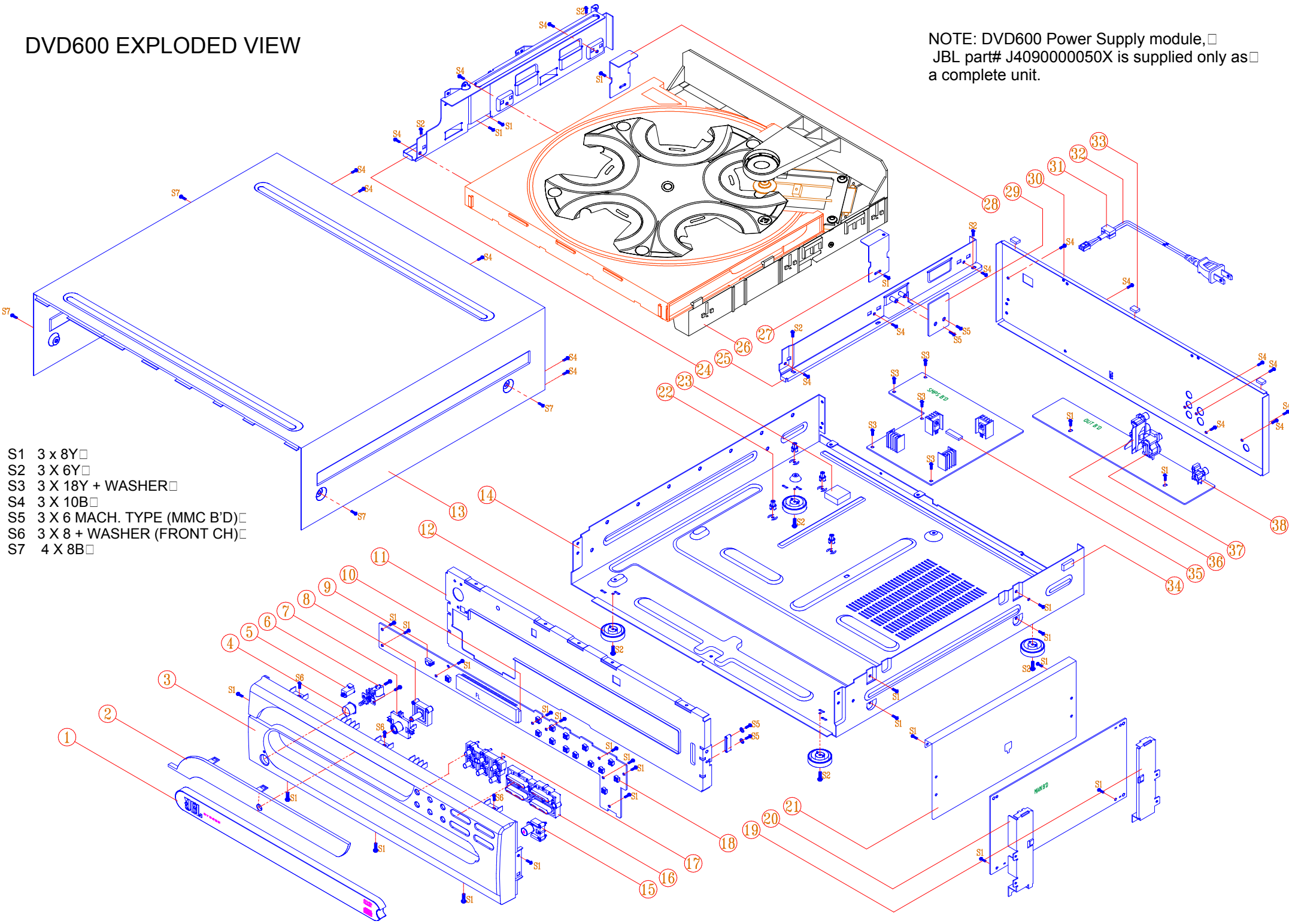






DVD600 EXPLODED VIEW

NOTE: DVD600 Power Supply module, □
 JBL part# J409000050X is supplied only as □
 a complete unit.



- S1 3 x 8Y □
- S2 3 X 6Y □
- S3 3 X 18Y + WASHER □
- S4 3 X 10B □
- S5 3 X 6 MACH. TYPE (MMC B'D) □
- S6 3 X 8 + WASHER (FRONT CH) □
- S7 4 X 8B □

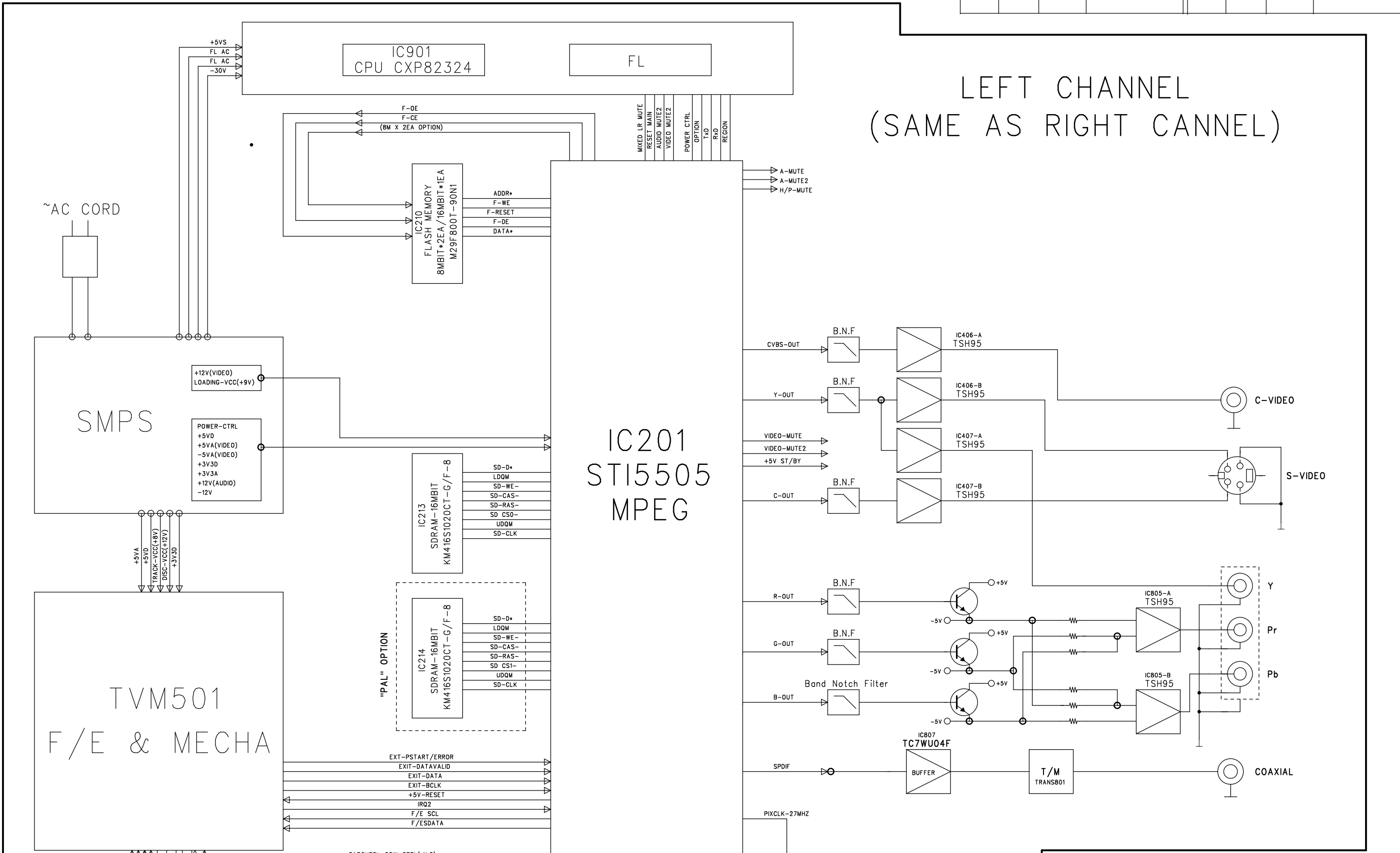
DVD600 EXPLODED VIEW PARTS LIST

1	J85600021000	DOOR TRAY DVD600	1
2	J85300030000	WINDOW DISPLAY DVD600	1
3	J85000028000	PANEL FRONT DVD600	1
4	J85200140000	BUTTON POWER	1
5	J85400023000	INDICATOR POWER	1
6	J46203000101	PWR SW SDDL14700	1
7	J85400054000	CAP BUT DIMMER DVD600	1
8	J85200136100	BUTTON DIMMER	1
9	J67300010000	SPONGE SENSE	1
10	J67300009000	SPONGE FL	2
11	J60020002300	CHASSIS FRONT	1
12	J85900501100	FOOT-ASS'Y DCR600	4
13	J60100004200	COVER TOP DVD600	1
14	J60000006000	CHASSIS MAIN	1
15	J85200135000	BUT OPEN/CLOSE DVD600	1
16	J85200138000	BUT PLAY DVD600	1
17	J85200137000	BUT DISC DVD600	1
18	J46500500501	SW TACT SKQNAE	14
19	J60300023100	BKT MPER REAR	1
20	J60300023000	BKT MPEG FRONT	1
21	J60600008000	SHIELD MPEG FRONT	1
22	J85820001100	SPACER PCB	4
23	J67300013000	SPONG CUSHION	1
24	J60200007000	FRAME MECHA L	1
25	J60200007200	FRAME MECHA R	1
26	4KTDCD5D002A	ASS'Y CDM5E	1
27	J60300045000	BKT MECHA RIGHT	1
28	J60300045200	BKT MECHA LEFT	1
29	J60300044000	BKT MECHA MID	1
30	J60110004500	PANEL REAR DVD600	1
31	J65100000100	BUSHING-AC CORD	1
32	J43730100100	CORD POWER UL SPT2	1
33	J94100008000	SHIELD FORM	3
34	J94100006000	SHIELD FORM	6
35	J67300013000	SPONG CUSHION	1
36	J44303000200	RCA JACK 3P RBG	1
37	J44312000100	RCA JACK + S GNDCAP	1
38	J44301000600	RCA JACK 1P BK GRD	1
	J97200501000	PCB SPONGE	1
	J5541001020X	WASHER FLAT	1
	JDVD5RUBBER1	RUBBER	1
	20979920XX	AC BUFFER CDM5B	1
	J85900503000	FOOT-RUBBER	1
	J4090000050X	POWER SUPPLY MODULE	1
	J80600031810	SCREW TAP 3.0*18	1
	J5636140010X	SCREW	1
	J60300036000	BKT GROUND MECHA	1
	J5636130080X	SCREW	1
	20349570XX	SCREW 3.0MM 06MM JIS B 1111	1
CN905	J4350009908X	CNT 500 #18 7.92	1
	J5636140040X	SCREW	1
	J5636140150X	SCREW	1
	55049000XX	SCREW-ST 3MM 06MM JIS B	1
	20411990XX	AC FOOT RUB SQ 21MM X 21MM	1

DVD600 LASER PICK-UP ASSEMBLY, COMPLETE JBL# 10693900XX

BLOCK DIAGRAM

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS



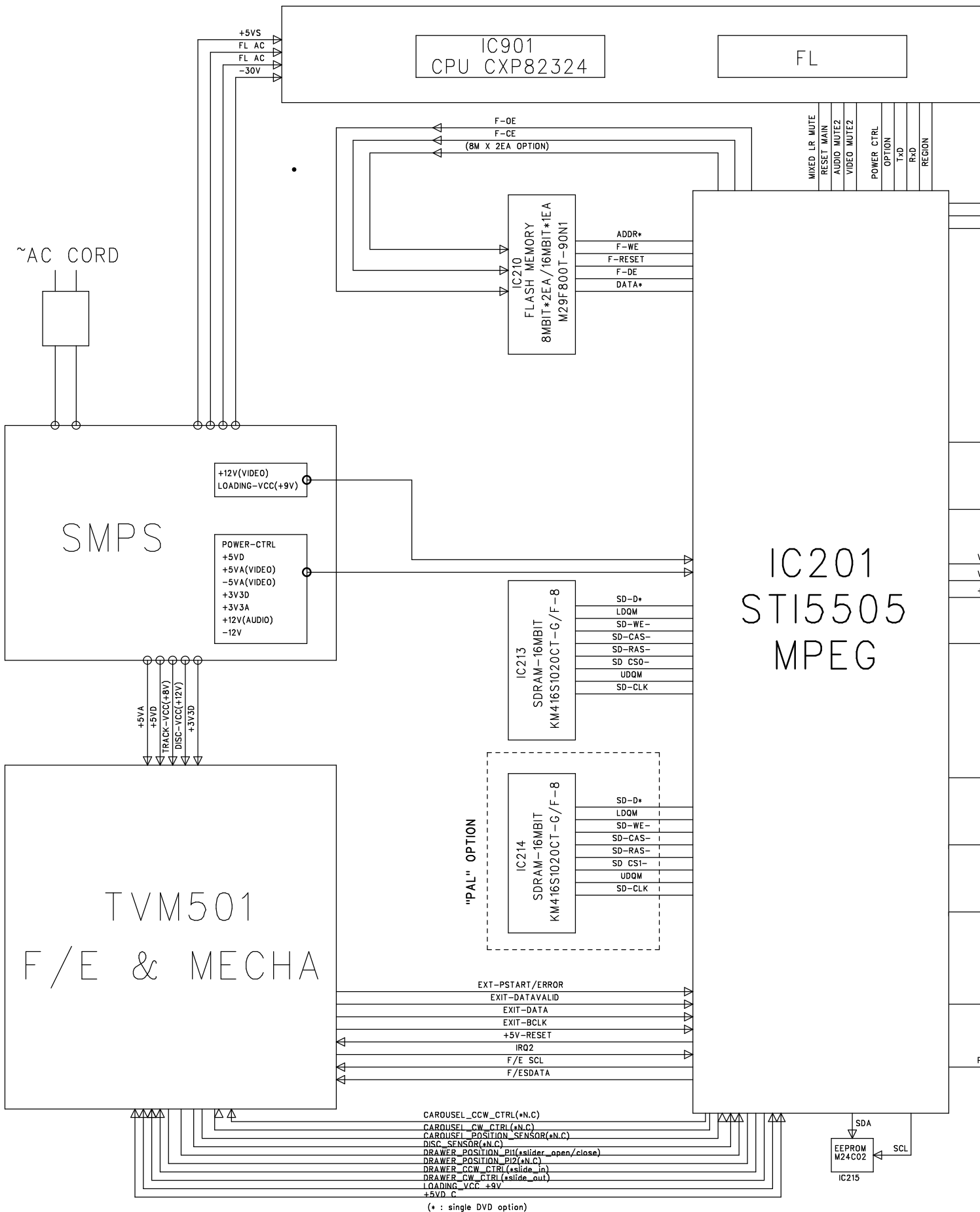
LEFT CHANNEL
(SAME AS RIGHT CHANNEL)

CAROUSEL_CCW_CTRL(*N.C)
 CAROUSEL_CW_CTRL(*N.C)
 CAROUSEL_POSITION_SENSOR(*N.C)
 DISC_SENSOR(*N.C)
 DRAWER_POSITION_P1(*slide_open/close)
 DRAWER_POSITION_P2(*N.C)
 DRAWER_CCW_CTRL(*slide_in)
 DRAWER_CW_CTRL(*slide_out)
 LOADING_VCC +9V
 +5VDC

(* : single DVD option)

FILENAME	CODE NO.	BLOCK	SHEET
BLOCK			1/1
MODEL	DESIGN	CHKD	APPROVAL
DVD600			
DESIGN DATE			
2000.12.15			

BLOCK DIAGRAM



(* : single DVD option)

RAM

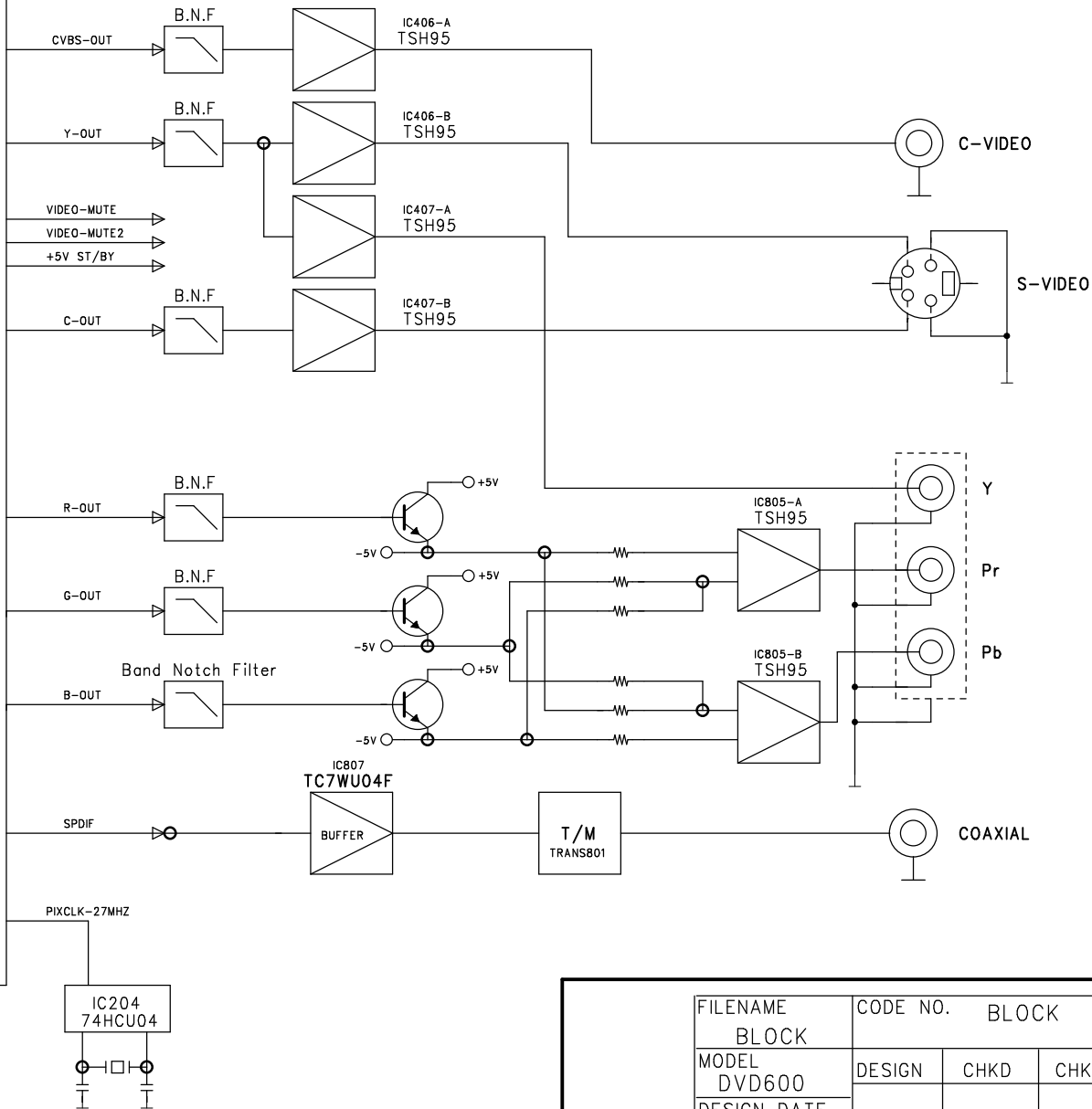
NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS

LEFT CHANNEL (SAME AS RIGHT CHANNEL)

01
505
EG

- AUDIO MUTE2
- VIDEO MUTE2
- POWER_CTRL
- OPTION
- TxD
- RxD
- REGION

A-MUTE
A-MUTE2
H/P-MUTE



FILENAME BLOCK	CODE NO.	BLOCK	SHEET 1/1	
MODEL DVD600	DESIGN	CHKD	CHKD	APPROVAL
DESIGN DATE 2000.12.15				

DVD600 Electrical Parts List

Ref. Designator	Part Number	Description	Qty
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MAIN PCB

'090	J60600008000	SHIELD MPEG FRONT	1.000
CC203	J4111212000X	CABLE 21P 200	1.000
CC207	J4112122001X	CABLE 12P 200 1.25	1.000
CN200	J4350009914X	CNT 17P SHEL D 650 2.0#24	1.000
CP206	J4420031240X	CNT PLUG12P 2.0MM	1.000
CP212	J4420030240X	CON WAFER 2P 2.0	1.000
CP213	J4420030440X	CNT PLUG 4P 2.0MM	1.000
CP214	J4420031140X	CNT ST 11P 2.0	1.000
FC101	J2632400016X	FERRITE CORE 12 BOAM	1.000
FC103	J2632400026X	FERRITE CORE 14 BOAM	1.000
FC104	J2632400026X	FERRITE CORE 14 BOAM	1.000
FC105	J2632100016X	EMI CORE RING34 34*21*12	1.000
LM201	J2612222023X	COIL RA 22UH K	1.000
L206	J2612222923X	2.2UH KS0606-2R2K	1.000
X201	J3914010036X	CRYSTAL 27M 16.5PF	1.000
CM207	J3470010106X	CE 100UF 16V	1.000
CM208	J3515100270X	CC CHIP 10PF 50V D	1.000
CM209	J3515100270X	CC CHIP 10PF 50V D	1.000
CM210	J3515100270X	CC CHIP 10PF 50V D	1.000
CM211	J3515100270X	CC CHIP 10PF 50V D	1.000
CM212	J3515100270X	CC CHIP 10PF 50V D	1.000
CM213	J3515100270X	CC CHIP 10PF 50V D	1.000
CM214	J3515100270X	CC CHIP 10PF 50V D	1.000
CM215	J3515100270X	CC CHIP 10PF 50V D	1.000
CN203	J4422402123X	FPC ST 1.0 21P	1.000
CN208	J4422501327X	FPC ANG 1.0 13P	1.000
CP202	J4422401523X	FPC ST 1.0 15P	1.000
CP207	J4422411220X	FPC ST 1.25 12P	1.000
CP802	J4425031040X	CNT SMD 10P 2.0	1.000
C206	J3515100270X	CC CHIP 10PF 50V D	1.000
C211	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C213	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C214	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C215	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C216	J3470010106X	CE 100UF 16V	1.000
C217	J3525103170X	CC/CHIP .01U 50V K	1.000
C218	J3515331170X	CC/CHIP 330PF 50V J	1.000
C219	J3525332170X	CC/CHIP 3300PF 50V	1.000
C220	J3525103170X	CC/CHIP .01U 50V K	1.000
C221	J3470010106X	CE 100UF 16V	1.000
C222	J3470010106X	CE 100UF 16V	1.000
C223	J3525103170X	CC/CHIP .01U 50V K	1.000
C226	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C227	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C228	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C229	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C230	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C239	J3515220270X	CC/CHIP 22P 50V	1.000
C240	J3515220270X	CC/CHIP 22P 50V	1.000
C241	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C242	J3525104540X	CC/CHIP 0.1U 25V Z	1.000

Ref. Designator	Part Number	Description	Qty
C243	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C244	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C245	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C246	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C247	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C248	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C249	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C250	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C251	J3525103170X	CC/CHIP .01U 50V K	1.000
C252	J3470010106X	CE 100UF 16V	1.000
C253	J3525103170X	CC/CHIP .01U 50V K	1.000
C254	J3470010106X	CE 100UF 16V	1.000
C255	J3525103170X	CC/CHIP .01U 50V K	1.000
C256	J3470010106X	CE 100UF 16V	1.000
C257	J3525103170X	CC/CHIP .01U 50V K	1.000
C258	J3470010036X	CE 10U 16V M 3*5.2	1.000
C259	J3525103170X	CC/CHIP .01U 50V K	1.000
C260	J3470010106X	CE 100UF 16V	1.000
C261	J3525103170X	CC/CHIP .01U 50V K	1.000
C262	J3470022036X	CE 22U 16V M 5*5.2	1.000
C263	J3470022036X	CE 22U 16V M 5*5.2	1.000
C265	J3515100270X	CC CHIP 10PF 50V D	1.000
C266	J3515100270X	CC CHIP 10PF 50V D	1.000
C267	J3515100270X	CC CHIP 10PF 50V D	1.000
C268	J3515100270X	CC CHIP 10PF 50V D	1.000
C270	J3515200270X	CC/CHIP 20P 50V	1.000
C301	J3515100270X	CC CHIP 10PF 50V D	1.000
C312	J3515471170X	C-CHIP 2012SL 470P	1.000
C332	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C333	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C334	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C335	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C336	J3470022036X	CE 22U 16V M 5*5.2	1.000
C337	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C338	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C348	J3470010036X	CE 10U 16V M 3*5.2	1.000
C349	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C350	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C351	J3470022036X	CE 22U 16V M 5*5.2	1.000
C353	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C354	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C360	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C361	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C362	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C363	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C364	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C365	J3515330270X	CC/CHIP 33P 50V J	1.000
C366	J3515330270X	CC/CHIP 33P 50V J	1.000
C367	J3515330270X	CC/CHIP 33P 50V J	1.000
C368	J3515330270X	CC/CHIP 33P 50V J	1.000
C369	J3515330270X	CC/CHIP 33P 50V J	1.000
C401	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C402	J3470022116X	CE 220U 6.3V M 6.3*5.7	1.000
C403	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C404	J3470022116X	CE 220U 6.3V M 6.3*5.7	1.000

Ref. Designator	Part Number	Description	Qty
C405	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C406	J3470022116X	CE 220U 6.3V M 6.3*5.7	1.000
C408	J3470022116X	CE 220U 6.3V M 6.3*5.7	1.000
C409	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C410	J3515200270X	CC/CHIP 20P 50V	1.000
C411	J3515680270X	CC/CHIP 68P 2012	1.000
C412	J3515200270X	CC/CHIP 20P 50V	1.000
C413	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C414	J3515150270X	CC/CHIP 15P 50V	1.000
C415	J3515200270X	CC/CHIP 20P 50V	1.000
C416	J3515680270X	CC/CHIP 68P 2012	1.000
C417	J3515200270X	CC/CHIP 20P 50V	1.000
C418	J3515150270X	CC/CHIP 15P 50V	1.000
C419	J3515200270X	CC/CHIP 20P 50V	1.000
C420	J3515680270X	CC/CHIP 68P 2012	1.000
C421	J3515200270X	CC/CHIP 20P 50V	1.000
C422	J3515150270X	CC/CHIP 15P 50V	1.000
C423	J3515200270X	CC/CHIP 20P 50V	1.000
C424	J3515680270X	CC/CHIP 68P 2012	1.000
C425	J3515200270X	CC/CHIP 20P 50V	1.000
C427	J3515200270X	CC/CHIP 20P 50V	1.000
C428	J3515680270X	CC/CHIP 68P 2012	1.000
C429	J3515200270X	CC/CHIP 20P 50V	1.000
C431	J3515200270X	CC/CHIP 20P 50V	1.000
C432	J3515680270X	CC/CHIP 68P 2012	1.000
C433	J3515200270X	CC/CHIP 20P 50V	1.000
C440	J3470010106X	CE 100UF 16V	1.000
C441	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C503	J3515150270X	CC/CHIP 15P 50V	1.000
C507	J3515100270X	CC CHIP 10PF 50V D	1.000
C508	J3515100270X	CC CHIP 10PF 50V D	1.000
C509	J3515100270X	CC CHIP 10PF 50V D	1.000
C510	J3515100270X	CC CHIP 10PF 50V D	1.000
C511	J3515100270X	CC CHIP 10PF 50V D	1.000
C512	J3515100270X	CC CHIP 10PF 50V D	1.000
C513	J3515100270X	CC CHIP 10PF 50V D	1.000
D401	J2244010104X	DIODE CHIP 1SS355	1.000
IC201	J2135307001X	IC STI5505AVB	1.000
IC204	J2116007001X	IC 74HCU04M1R HEX	1.000
IC211	J2131007002X	IC FLASH M29F800T	1.000
IC212	J2131003009X	IC K4E151611C-TC60000 DRAM	1.000
IC213	J2131003010X	IC SDRAM KS161622D-TC80000 50-TSOP2 SAMS	1.000
IC215	J2131007001X	IC M24C02 SOP8	1.000
IC406	J2110007001X	IC TSH95D VIDEO	1.000
J201	J3024000120X	RES 0 OHM 1/10W J	1.000
J202	J3024000120X	RES 0 OHM 1/10W J	1.000
J203	J3024000120X	RES 0 OHM 1/10W J	1.000
J204	J3024102120X	RES CHIP 1K 1/10W	1.000
J205	J3024102120X	RES CHIP 1K 1/10W	1.000
J206	J3024102120X	RES CHIP 1K 1/10W	1.000
J207	J3024102120X	RES CHIP 1K 1/10W	1.000
L202	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L203	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L205	J2631300011X	BEAD 12XOHM	1.000
L207	J2631330085X	BEAD FCM3216V 2K	1.000

Ref. Designator	Part Number	Description	Qty
L208	J2631330085X	BEAD FCM3216V 2K	1.000
L209	J2631330085X	BEAD FCM3216V 2K	1.000
L210	J2631330085X	BEAD FCM3216V 2K	1.000
L211	J2631330085X	BEAD FCM3216V 2K	1.000
L212	J2631330085X	BEAD FCM3216V 2K	1.000
L330	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L332	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L333	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L334	J2631330085X	BEAD FCM3216V 2K	1.000
L335	J2631330085X	BEAD FCM3216V 2K	1.000
L336	J2631330085X	BEAD FCM3216V 2K	1.000
L337	J3927201111X	EMI FILTER STC104B	1.000
L338	J3927201111X	EMI FILTER STC104B	1.000
L339	J2631330085X	BEAD FCM3216V 2K	1.000
L340	J2631330085X	BEAD FCM3216V 2K	1.000
L341	J2631330085X	BEAD FCM3216V 2K	1.000
L342	J2631330085X	BEAD FCM3216V 2K	1.000
L343	J2631330085X	BEAD FCM3216V 2K	1.000
L344	J2631330085X	BEAD FCM3216V 2K	1.000
L400	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L401	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L402	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L403	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L404	J2611082921X	COIL CHIP 8.2UH	1.000
L405	J2611082921X	COIL CHIP 8.2UH	1.000
L406	J2611082921X	COIL CHIP 8.2UH	1.000
L407	J2611082921X	COIL CHIP 8.2UH	1.000
L408	J2611082921X	COIL CHIP 8.2UH	1.000
L409	J2611082921X	COIL CHIP 8.2UH	1.000
L410	J2611082921X	COIL CHIP 8.2UH	1.000
L411	J2611082921X	COIL CHIP 8.2UH	1.000
L412	J2611082921X	COIL CHIP 8.2UH	1.000
L413	J2611082921X	COIL CHIP 8.2UH	1.000
L414	J2611082921X	COIL CHIP 8.2UH	1.000
L415	J2611082921X	COIL CHIP 8.2UH	1.000
L416	J2631300011X	BEAD 120XOHM	1.000
L417	J2631300011X	BEAD 120XOHM	1.000
L418	J2631300011X	BEAD 120XOHM	1.000
L419	J2631300011X	BEAD 120XOHM	1.000
L421	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L422	J2631330085X	BEAD FCM3216V 2K	1.000
L423	J3927201111X	EMI FILTER STC104B	1.000
Q201	J2041020201X	TR KTC3875S SOT23	1.000
Q202	J2041020201X	TR KTC3875S SOT23	1.000
Q204	J2041020201X	TR KTC3875S SOT23	1.000
Q205	J2041020201X	TR KTC3875S SOT23	1.000
Q206	J2041020201X	TR KTC3875S SOT23	1.000
Q207	J2041220102X	TR NPN DTC114YKA	1.000
Q208	J2041220102X	TR NPN DTC114YKA	1.000
RA201	J3029470120X	RES CHIP 47R 2010	1.000
RA202	J3029470120X	RES CHIP 47R 2010	1.000
RA203	J3029470120X	RES CHIP 47R 2010	1.000
RA204	J3029470120X	RES CHIP 47R 2010	1.000
RA205	J3029470120X	RES CHIP 47R 2010	1.000
RA206	J3029470120X	RES CHIP 47R 2010	1.000

Ref. Designator	Part Number	Description	Qty
RA207	J3029470120X	RES CHIP 47R 2010	1.000
RA208	J3029470120X	RES CHIP 47R 2010	1.000
RA209	J3029470120X	RES CHIP 47R 2010	1.000
RA210	J3029470120X	RES CHIP 47R 2010	1.000
RA211	J3029470120X	RES CHIP 47R 2010	1.000
RA212	J3029470120X	RES CHIP 47R 2010	1.000
RA213	J3029470120X	RES CHIP 47R 2010	1.000
RA214	J3029470120X	RES CHIP 47R 2010	1.000
RA215	J3029470120X	RES CHIP 47R 2010	1.000
RA216	J3029470120X	RES CHIP 47R 2010	1.000
RM201	J3024221120X	R-CHIP 220 2012J	1.000
RM202	J3024221120X	R-CHIP 220 2012J	1.000
RM216	J3024103120X	RES CHIP 10K 1/10W	1.000
RM217	J3024103120X	RES CHIP 10K 1/10W	1.000
RM218	J3024473120X	RES CHIP 47K 1/10W	1.000
RM219	J3024473120X	RES CHIP 47K 1/10W	1.000
RM220	J3024473120X	RES CHIP 47K 1/10W	1.000
RM221	J3024473120X	RES CHIP 47K 1/10W	1.000
RM222	J3024103120X	RES CHIP 10K 1/10W	1.000
RM223	J2631320105X	FCM2012H-102T04	1.000
RM224	J2631320105X	FCM2012H-102T04	1.000
RM225	J2631320105X	FCM2012H-102T04	1.000
RM226	J2631320105X	FCM2012H-102T04	1.000
RM227	J2631320105X	FCM2012H-102T04	1.000
RM228	J2631320105X	FCM2012H-102T04	1.000
RM229	J2631320105X	FCM2012H-102T04	1.000
RM230	J2631320105X	FCM2012H-102T04	1.000
RM232	J3024103120X	RES CHIP 10K 1/10W	1.000
RX06	J3024000120X	RES 0 OHM 1/10W J	1.000
RX08	J3024103120X	RES CHIP 10K 1/10W	1.000
R201	J3024182120X	RES CHIP 1K8 1/10W	1.000
R202	J3024182120X	RES CHIP 1K8 1/10W	1.000
R203	J3024103120X	RES CHIP 10K 1/10W	1.000
R205	J3024103120X	RES CHIP 10K 1/10W	1.000
R206	J3024103120X	RES CHIP 10K 1/10W	1.000
R207	J3024103120X	RES CHIP 10K 1/10W	1.000
R208	J3024103120X	RES CHIP 10K 1/10W	1.000
R209	J3024103120X	RES CHIP 10K 1/10W	1.000
R210	J3024472120X	RES CHIP 4K7 1/10W	1.000
R211	J3024472120X	RES CHIP 4K7 1/10W	1.000
R212	J3024103120X	RES CHIP 10K 1/10W	1.000
R213	J3024560120X	RES CHIP 56 1/10WJ	1.000
R214	J3024000120X	RES 0 OHM 1/10W J	1.000
R216	J3024103120X	RES CHIP 10K 1/10W	1.000
R218	J30241873175	RES 18K7 1/10 1%	1.000
R219	J30241153175	RES 11K5 1/10 1%	1.000
R223	J3024000120X	RES 0 OHM 1/10W J	1.000
R224	J2631320095X	BEAD FCM2012V-601 T05 600R	1.000
R228	J3024331120X	R-CHIP 330 2012J	1.000
R229	J3024105120X	RES CHIP 1M 1/10WJ	1.000
R230	J3024103120X	RES CHIP 10K 1/10W	1.000
R231	J3024103120X	RES CHIP 10K 1/10W	1.000
R232	J3024103120X	RES CHIP 10K 1/10W	1.000
R233	J3024103120X	RES CHIP 10K 1/10W	1.000
R234	J2631320065X	FCM2012V-221T07	1.000

Ref. Designator	Part Number	Description	Qty
R235	J3024470120X	RES CHIP 47 1/10W	1.000
R236	J3024470120X	RES CHIP 47 1/10W	1.000
R237	J3024470120X	RES CHIP 47 1/10W	1.000
R238	J2631320065X	FCM2012V-221T07	1.000
R239	J2631320065X	FCM2012V-221T07	1.000
R240	J3024470120X	RES CHIP 47 1/10W	1.000
R243	J2631320245X	BEAD FCM2012C-121T06 120R	1.000
R244	J3024000120X	RES 0 OHM 1/10W J	1.000
R247	J3024000120X	RES 0 OHM 1/10W J	1.000
R249	J3024472120X	RES CHIP 4K7 1/10W	1.000
R250	J3024472120X	RES CHIP 4K7 1/10W	1.000
R269	J3024101120X	RES CHIP 100 1/10W	1.000
R270	J3024101120X	RES CHIP 100 1/10W	1.000
R271	J2631320075X	FCM2012V-301T07	1.000
R272	J2631320075X	FCM2012V-301T07	1.000
R277	J3024103120X	RES CHIP 10K 1/10W	1.000
R278	J3024103120X	RES CHIP 10K 1/10W	1.000
R280	J3024103120X	RES CHIP 10K 1/10W	1.000
R281	J3024103120X	RES CHIP 10K 1/10W	1.000
R283	J3024472120X	RES CHIP 4K7 1/10W	1.000
R286	J3024470120X	RES CHIP 47 1/10W	1.000
R289	J2631320105X	FCM2012H-102T04	1.000
R301	J3024000120X	RES 0 OHM 1/10W J	1.000
R330	J2631330085X	BEAD FCM3216V 2K	1.000
R332	J2631330085X	BEAD FCM3216V 2K	1.000
R333	J2631320125X	FCM2012H-202T02	1.000
R334	J2631320125X	FCM2012H-202T02	1.000
R335	J2631320015X	FCM2012K-202T02	1.000
R345	J3024000120X	RES 0 OHM 1/10W J	1.000
R346	J3024000120X	RES 0 OHM 1/10W J	1.000
R348	J3024473120X	RES CHIP 47K 1/10W	1.000
R349	J2631320065X	FCM2012V-221T07	1.000
R350	J3024470120X	RES CHIP 47 1/10W	1.000
R351	J2631320065X	FCM2012V-221T07	1.000
R352	J3024470120X	RES CHIP 47 1/10W	1.000
R353	J3024470120X	RES CHIP 47 1/10W	1.000
R354	J3024470120X	RES CHIP 47 1/10W	1.000
R355	J3024470120X	RES CHIP 47 1/10W	1.000
R356	J3024470120X	RES CHIP 47 1/10W	1.000
R357	J3024473120X	RES CHIP 47K 1/10W	1.000
R358	J3024473120X	RES CHIP 47K 1/10W	1.000
R359	J3024473120X	RES CHIP 47K 1/10W	1.000
R360	J3024473120X	RES CHIP 47K 1/10W	1.000
R361	J3024473120X	RES CHIP 47K 1/10W	1.000
R362	J3024473120X	RES CHIP 47K 1/10W	1.000
R363	J3024473120X	RES CHIP 47K 1/10W	1.000
R366	J3024472120X	RES CHIP 4K7 1/10W	1.000
R367	J3024472120X	RES CHIP 4K7 1/10W	1.000
R368	J3024472120X	RES CHIP 4K7 1/10W	1.000
R369	J3024472120X	RES CHIP 4K7 1/10W	1.000
R370	J3024472120X	RES CHIP 4K7 1/10W	1.000
R400	J3024479120X	R-CHIP 4R7 2012J	1.000
R401	J3024479120X	R-CHIP 4R7 2012J	1.000
R402	J3024479120X	R-CHIP 4R7 2012J	1.000
R403	J3024479120X	R-CHIP 4R7 2012J	1.000

Ref. Designator	Part Number	Description	Qty
R404	J3024391120X	R-CHIP 390 2012J	1.000
R405	J3024391120X	R-CHIP 390 2012J	1.000
R406	J3024391120X	R-CHIP 390 2012J	1.000
R407	J3024621120X	RES CHIP 620 2012 1/10W	1.000
R408	J3024391120X	R-CHIP 390 2012J	1.000
R409	J3024391120X	R-CHIP 390 2012J	1.000
R410	J3024621120X	RES CHIP 620 2012 1/10W	1.000
R411	J3024391120X	R-CHIP 390 2012J	1.000
R412	J3024391120X	R-CHIP 390 2012J	1.000
R413	J3024391120X	R-CHIP 390 2012J	1.000
R414	J3024471120X	RES CHIP 470 1/10W	1.000
R415	J3024271120X	R-CHIP 270 1/10W J	1.000
R416	J3024391120X	R-CHIP 390 2012J	1.000
R417	J3024391120X	R-CHIP 390 2012J	1.000
R420	J3024391120X	R-CHIP 390 2012J	1.000
R421	J3024391120X	R-CHIP 390 2012J	1.000
R424	J3024391120X	R-CHIP 390 2012J	1.000
R425	J3024391120X	R-CHIP 390 2012J	1.000
R428	J3024479120X	R-CHIP 4R7 2012J	1.000
R429	J3024479120X	R-CHIP 4R7 2012J	1.000
R430	J3024479120X	R-CHIP 4R7 2012J	1.000
R431	J3024479120X	R-CHIP 4R7 2012J	1.000
R473	J3024391120X	R-CHIP 390 2012J	1.000
R474	J3024621120X	RES CHIP 620 1/10W 2012	1.000
R477	J3024391120X	R-CHIP 390 2012J	1.000
R478	J3024391120X	R-CHIP 390 2012J	1.000
R479	J3024391120X	R-CHIP 390 2012J	1.000
R480	J3024104120X	RES CHIP 100K 1/10	1.000
R481	J3024102120X	RES CHIP 1K 1/10W	1.000
R484	J3024470120X	RES CHIP 47 1/10W	1.000
R485	J3024470120X	RES CHIP 47 1/10W	1.000
R486	J3024470120X	RES CHIP 47 1/10W	1.000
R487	J3024470120X	RES CHIP 47 1/10W	1.000
R488	J3024470120X	RES CHIP 47 1/10W	1.000
R489	J3024470120X	RES CHIP 47 1/10W	1.000
R490	J3024470120X	RES CHIP 47 1/10W	1.000
R492	J3024102120X	RES CHIP 1K 1/10W	1.000
R493	J3024104120X	RES CHIP 100K 1/10	1.000

FRONT PCB

#005	JE990089005A	FRBD ASM DVD600	
'020	JE990090005A	FRBD APP DVD600	1.000
'050	J67300009000	SPONGE FL	1.000
'070	J67300010000	SPONGE FL	1.000
'090	20932870XX	AC PRI LABEL QC CHECK CRKD1215 20X13MM	1.000
CC902	J4111131500X	CARD 1.0 13P 150	1.000
CN901	J4350009906X	CNT 5P 240 2.0 #26	1.000
CN902	J4422101327X	FPC PLUG 1.0 13P	1.000
CN903	J4350009905X	CNT 4P 140 2.0 #26	1.000
CN904	J4350009907X	CNT 3P 600 2.0 #26	1.000
CP904	J4420030340X	CNT PLUG 2.0 ST 3P	1.000
C907	2026862030	CE 470U0F +20% 6.3V 85C	1.000
DG901	J44320000005	JACK REMOTEIH 3.5*2	1.000
D907	J2221216000X	DIODE RECT IN4004	1.000

Ref. Designator	Part Number	Description	Qty
EC901	J2632410025X	EMI CORE W5 ZP160R	1.000
FC901	J2632400015X	FERRITE CORE CLAMP	1.000
FL901	J2350220010X	VFD HNV-11SM07	1.000
IC901	J2132314042X	IC CPU CXP82316-534Q QFP80	1.000
IC902	J2112505034X	IC KIA7042P 4V2	1.000
OP901	J2123239002X	IC PHOTOCOUPLER PC-17T1DB	1.000
RM901	J2411320024X	REOTE RPM6938	1.000
X901	J3911030000X	RESON ZTT10MHZ CQ	1.000
#005	JE990089005A	FRBD ASM DVD600	
'020	JE990090005A	FRBD APP DVD600	1.000
'050	J67300009000	SPONGE FL	1.000
'070	J67300010000	SPONGE FL	1.000
'090	20932870XX	AC PRI LABEL QC CHECK CRKD1215 20X13MM	1.000
CC902	J4111131500X	CARD 1.0 13P 150	1.000
CN901	J4350009906X	CNT 5P 240 2.0 #26	1.000
CN902	J4422101327X	FPC PLUG 1.0 13P	1.000
CN903	J4350009905X	CNT 4P 140 2.0 #26	1.000
CN904	J4350009907X	CNT 3P 600 2.0 #26	1.000
CP904	J4420030340X	CNT PLUG 2.0 ST 3P	1.000
C907	2026862030	CE 470U0F +20% 6.3V 85C	1.000
DG901	J44320000005	JACK REMOTEIH 3.5*2	1.000
D907	J2221216000X	DIODE RECT IN4004	1.000
EC901	J2632410025X	EMI CORE W5 ZP160R	1.000
FC901	J2632400015X	FERRITE CORE CLAMP	1.000
FL901	J2350220010X	VFD HNV-11SM07	1.000
IC901	J2132314042X	IC CPU CXP82316-534Q QFP80	1.000
IC902	J2112505034X	IC KIA7042P 4V2	1.000
OP901	J2123239002X	IC PHOTOCOUPLER PC-17T1DB	1.000
RM901	J2411320024X	REOTE RPM6938	1.000
X901	J3911030000X	RESON ZTT10MHZ CQ	1.000
C901	J3470947030X	CE 47U 16V	1.000
C906	J3470910110X	CE 100UF 6.3V	1.000
C909	J3470910970X	CE 1U 50V M SS 5*7	1.000
C915	J3470947030X	CE 47U 16V	1.000
C916	J3471347116X	CE SS470U 6V3 M8*9	1.000
C917	J3470110211X	CE 1000UF 6.3V	1.000
Q914	J2021200501X	TR PNP KRA107M	1.000
SW901	J46500500501	SW TACT SKQNAE	1.000
SW903	J46500500501	SW TACT SKQNAE	1.000
SW905	J46500500501	SW TACT SKQNAE	1.000
SW907	J46500500501	SW TACT SKQNAE	1.000
SW911	J46500500501	SW TACT SKQNAE	1.000
SW913	J46500500501	SW TACT SKQNAE	1.000
SW915	J46500500501	SW TACT SKQNAE	1.000
SW917	J46500500501	SW TACT SKQNAE	1.000
SW919	J46500500501	SW TACT SKQNAE	1.000
SW921	J46500500501	SW TACT SKQNAE	1.000
SW924	J46500500501	SW TACT SKQNAE	1.000
SW927	J46500500501	SW TACT SKQNAE	1.000
SW930	J46500500501	SW TACT SKQNAE	1.000
SW931	J46500500501	SW TACT SKQNAE	1.000
C903	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C904	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C905	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C908	J3525104540X	CC/CHIP 0.1U 25V Z	1.000

Ref. Designator	Part Number	Description	Qty
C911	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
D906	J2242510011X	D SCHOTTKY RB501V-40	1.000
L901	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L902	J2631330085X	BEAD FCM3216V 2K	1.000
L903	J2631330085X	BEAD FCM3216V 2K	1.000
L904	J2631330085X	BEAD FCM3216V 2K	1.000
L905	J3927201111X	EMI FILTER STC104B	1.000
L906	J3927201111X	EMI FILTER STC104B	1.000
L908	J2631330085X	BEAD FCM3216V 2K	1.000
L909	J2631330085X	BEAD FCM3216V 2K	1.000
L912	J2631330085X	BEAD FCM3216V 2K	1.000
L913	J2631330085X	BEAD FCM3216V 2K	1.000
L914	J2631330085X	BEAD FCM3216V 2K	1.000
L915	J2631330085X	BEAD FCM3216V 2K	1.000
Q902	J2041220102X	TR NPN DTC114YKA	1.000
R901	J3024101120X	RES CHIP 100 1/10W	1.000
R902	J3024103120X	RES CHIP 10K 1/10W	1.000
R911	J3024242120X	RES CHIP 2K4 1/10 J	1.000
R912	J3024682120X	RES CHIP 6K8 1/10W	1.000
R913	J3024822120X	R-CHIP 8K2 1/10W J	1.000
R916	J3024184120X	R-CHIP 180K 2012J	1.000
R921	J3024242120X	RES CHIP 2K4 1/10 J	1.000
R922	J3024682120X	RES CHIP 6K8 1/10W	1.000
R923	J3024822120X	R-CHIP 8K2 1/10W J	1.000
R924	J3024333120X	RES CHIP 33K 1/10W	1.000
R926	J3024473120X	RES CHIP 47K 1/10W	1.000
R927	J3024223120X	RES CHIP 22K 1/10W	1.000
R931	J3024242120X	RES CHIP 2K4 1/10 J	1.000
R932	J3024682120X	RES CHIP 6K8 1/10W	1.000
R933	J3024822120X	R-CHIP 8K2 1/10W J	1.000
R934	J3024333120X	RES CHIP 33K 1/10W	1.000
R938	J3024103120X	RES CHIP 10K 1/10W	1.000
R939	J3024103120X	RES CHIP 10K 1/10W	1.000
R940	J3024103120X	RES CHIP 10K 1/10W	1.000
R941	J3024103120X	RES CHIP 10K 1/10W	1.000
R942	J3024103120X	RES CHIP 10K 1/10W	1.000
R943	J3024473120X	RES CHIP 47K 1/10W	1.000
R944	J3024103120X	RES CHIP 10K 1/10W	1.000
R945	J3024000120X	RES 0 OHM 1/10W J	1.000
R949	J3024822120X	R-CHIP 8K2 1/10W J	1.000
R974	J3024332120X	RES CHIP 3K3 1/10W	1.000
R983	J2244010104X	DIODE CHIP 1SS355	1.000
R984	J3024271120X	R-CHIP 270 1/10W J	1.000
R985	J3024103120X	RES CHIP 10K 1/10W	1.000
R986	J3024391120X	R-CHIP 390 2012J	1.000
R987	J3024473120X	RES CHIP 47K 1/10W	1.000

OUTPUT PCB

CN802	J4350009903X	CNT 10P 200 2.0 #26	1.000
CP203	J4422002127X	FPC ST 1.0 21P	1.000
JK803	J44303000200	JACK RCA 3P RBG	1.000
JK804	J44312000100	JACK RCA+S GND CAP	1.000
JK807	J44301000600	JACK RCA 1P O W/GND GOLD DAER	1.000
TS801	J2831020105X	PULSE TRANS EP-7 250uH	1.000

Ref. Designator	Part Number	Description	Qty
'060	20932870XX	AC PRI LABEL QC CHECK CRKD1217(20 X 13MM	1.000
CN802	J4350009903X	CNT 10P 200 2.0 #26	1.000
CP203	J4422002127X	FPC ST 1.0 21P	1.000
JK803	J44303000200	JACK RCA 3P RBG	1.000
JK804	J44312000100	JACK RCA+S GND CAP	1.000
JK807	J44301000600	JACK RCA 1P O W/GND GOLD DAER	1.000
TS801	J2831020105X	PULSE TRANS EP-7 250uH	1.000
#004	JE990094004A	OUTBD APP DVD600	
'020	JE990096004A	OUTBD SMT DVD600	1.000
'021	J4031100010A	OUT PCB 247*247	1.000
C827	J3470147031X	CE SG 47U 16V M	1.000
C855	J3470122131X	CE SG 220U 16V M	1.000
C856	J3470122131X	CE SG 220U 16V M	1.000
C826	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C842	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C843	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C844	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C845	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C846	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C850	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C851	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C853	J3525104540X	CC/CHIP 0.1U 25V Z	1.000
C857	J3515101270X	CC/CHIP 100P 50V J	1.000
C858	J3515101270X	CC/CHIP 100P 50V J	1.000
C859	J3515101270X	CC/CHIP 100P 50V J	1.000
C861	J3515101270X	CC/CHIP 100P 50V J	1.000
C862	J3515101270X	CC/CHIP 100P 50V J	1.000
C863	J3515150270X	CC/CHIP 15P 50V	1.000
C864	J3515150270X	CC/CHIP 15P 50V	1.000
D801	J2244010104X	DIODE CHIP 1SS355	1.000
D802	J2242451514X	D-CHIP ZNR5V1B0.2W	1.000
D803	J2242451514X	D-CHIP ZNR5V1B0.2W	1.000
D804	J2242468514X	D-ZENER 0.2W 6.8V	1.000
D805	J2242468514X	D-ZENER 0.2W 6.8V	1.000
D807	J2242451514X	D-CHIP ZNR5V1B0.2W	1.000
D808	J2242451514X	D-CHIP ZNR5V1B0.2W	1.000
D809	J2242468514X	D-ZENER 0.2W 6.8V	1.000
D810	J2242468514X	D-ZENER 0.2W 6.8V	1.000
D811	J2242468514X	D-ZENER 0.2W 6.8V	1.000
D812	J2242468514X	D-ZENER 0.2W 6.8V	1.000
D813	J2242468514X	D-ZENER 0.2W 6.8V	1.000
D814	J2242468514X	D-ZENER 0.2W 6.8V	1.000
IC805	J2110007001X	IC TSH95D VIDEO	1.000
IC807	J2115206008X	IC TC7WU04FU	1.000
J801	J3024000120X	RES 0 OHM 1/10W J	1.000
J802	J3024000120X	RES 0 OHM 1/10W J	1.000
J803	J3024000120X	RES 0 OHM 1/10W J	1.000
J804	J3024000120X	RES 0 OHM 1/10W J	1.000
J808	J3024000120X	RES 0 OHM 1/10W J	1.000
J809	J3024000120X	RES 0 OHM 1/10W J	1.000
J813	J3024000120X	RES 0 OHM 1/10W J	1.000
J814	J3024000120X	RES 0 OHM 1/10W J	1.000
J818	J3024000120X	RES 0 OHM 1/10W J	1.000
J819	J3024000120X	RES 0 OHM 1/10W J	1.000
J836	J3024000120X	RES 0 OHM 1/10W J	1.000

Ref. Designator	Part Number	Description	Qty
J837	J3024000120X	RES 0 OHM 1/10W J	1.000
L801	J2631300011X	BEAD 120XOHM	1.000
L802	J2631300011X	BEAD 120XOHM	1.000
L803	J2631300011X	BEAD 120XOHM	1.000
L804	J2631300011X	BEAD 120XOHM	1.000
L805	J2631300011X	BEAD 120XOHM	1.000
L806	J2631300011X	BEAD 120XOHM	1.000
L807	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L808	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L809	J2631300011X	BEAD 120XOHM	1.000
L810	J3024000120X	RES 0 OHM 1/10W J	1.000
L811	J3024000120X	RES 0 OHM 1/10W J	1.000
L816	J2611022011X	COIL CHIP ELJFC220JF 22uH	1.000
L818	J3024000120X	RES 0 OHM 1/10W J	1.000
L830	J3024000120X	RES 0 OHM 1/10W J	1.000
L831	J3024000120X	RES 0 OHM 1/10W J	1.000
Q806	J2041220102X	TR NPN DTC114YKA	1.000
Q807	J2041220102X	TR NPN DTC114YKA	1.000
Q810L	J2041220302X	TR DTC323TK SMT3	1.000
Q810R	J2041220302X	TR DTC323TK SMT3	1.000
R815	J3024221120X	R-CHIP 220 2012J	1.000
R830	J3024390120X	RES 39R 1/10 J	1.000
R831	J3024470120X	RES CHIP 47 1/10W	1.000
R832	J3024390120X	RES 39R 1/10 J	1.000
R833	J3024390120X	RES 39R 1/10 J	1.000
R836	J3024100120X	R-CHIP 10 2012J	1.000
R837	J3024100120X	R-CHIP 10 2012J	1.000
R838	J30245621175	RES 562R 1/10 1% F	1.000
R839	J30246651175	RES 665R 1/10 1% F	1.000
R840	J30243921175	RES 392R 1/10 1% F	1.000
R841	J3024342175X	RES 3K4 1/10 1% F	1.000
R842	J30245621175	RES 562R 1/10 1% F	1.000
R843	J30241652175	RES CHIP 1K65 1% F	1.000
R844	J30248451175	RES 845R 1/10 1% F	1.000
R845	J30243921175	RES 392R 1/10 1% F	1.000
R846	J30243921175	RES 392R 1/10 1% F	1.000
R847	J30243921175	RES 392R 1/10 1% F	1.000
R848	J3024390120X	RES 39R 1/10 J	1.000
R849	J3024390120X	RES 39R 1/10 J	1.000
R850	J3024390120X	RES 39R 1/10 J	1.000
R851	J3024390120X	RES 39R 1/10 J	1.000
R852	J3024390120X	RES 39R 1/10 J	1.000
R853	J3024390120X	RES 39R 1/10 J	1.000
R856	J3024101120X	RES CHIP 100 1/10W	1.000
R858	J3024100120X	R-CHIP 10 2012J	1.000
R860	J3024221120X	R-CHIP 220 2012J	1.000
R862	J3024750120X	RES CHIP 75 1/10W	1.000
R865	J3024181120X	RES CHIP 180 1/10W	1.000
R867	J3024390120X	RES 39R 1/10 J	1.000
R868	J3024390120X	RES 39R 1/10 J	1.000
R869	J3024104120X	RES CHIP 100K 1/10	1.000
R870	J3024104120X	RES CHIP 100K 1/10	1.000
R871	J3024470120X	RES CHIP 47 1/10W	1.000
R872	J3024471120X	RES CHIP 470 1/10W	1.000
R873	J3024331120X	R-CHIP 330 2012J	1.000

Ref. Designator	Part Number	Description	Qty
R874	J3024331120X	R-CHIP 330 2012J	1.000
R875	J3024470120X	RES CHIP 47 1/10W	1.000
R876	J3024471120X	RES CHIP 470 1/10W	1.000
R878	J3024331120X	R-CHIP 330 2012J	1.000
R879	J3024331120X	R-CHIP 330 2012J	1.000
R880	J3024102120X	RES CHIP 1K 1/10W	1.000
R881	J3024102120X	RES CHIP 1K 1/10W	1.000

SENSOR PCB (MECH CONTROL PCB)

R001	5088295016	RCF 100R0 OHM +5% 250M10W	1.000
R002	5088295016	RCF 100R0 OHM +5% 250M10W	1.000
C001	80434590AF	CC 22P0F +5% -5% 50.0V NP0	1.000
C002	20246950AF	CC 100N0F +10% -10% 25.0V Y5R	1.000
C003	80434590AF	CC 22P0F +5% -5% 50.0V NP0	1.000
C004	20246950AF	CC 100N0F +10% -10% 25.0V Y5R	1.000
C005	20268030AM	CE 1M10F +20% 25.0V 85C	1.000
D001	2041428001	D-ZENER 1N5232B 5.6V 500M10W	1.000
D002	2041428001	D-ZENER 1N5232B 5.6V 500M10W	1.000
IC001	20656300NR	IC-MOTORCIR LB1641 MOTOR CONT WITH LOGI	1.000
IC002	20656300NR	IC-MOTORCIR LB1641 MOTOR CONT WITH LOGI	1.000
L001	20265120NR	LF 39U0H +10% 130M10 OHM 1.5A	1.000
PI001	20586840NR	D-PHOTO RPI-574	1.000
PI002	20586840NR	D-PHOTO RPI-574	1.000
PI003	20586840NR	D-PHOTO RPI-574	1.000
PI004	20556130NR	D-PHOTO GP2S28 20M10A	1.000
P003	20504010XX	CONN 2.0MM 6 MA ST NAT JST,B6B-PH-K 0 0	1.000
P004	20713210XX	WCL 150-05-05 UL2468 RIBBON 26 150MM NON	1.000
P027	20713500NR	WCASSY 06187F 06 180MM UL20080 RIBBON SO	1.000
P406	J4350009909X	CNT 12P 280 #26 2	1.000
P406B	20649240XX	WCL 060-05-05 UL2468 RIBBON 26 60MM NONE	1.000
R003	2054943001	RCFF 2R2 OHM +5% 250M10W	1.000
R004	2054943001	RCFF 2R2 OHM +5% 250M10W	1.000

POWER SUPPLY

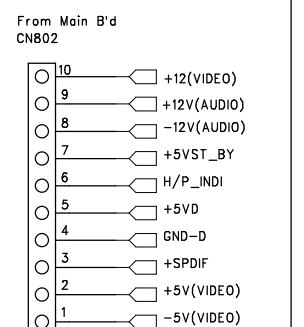
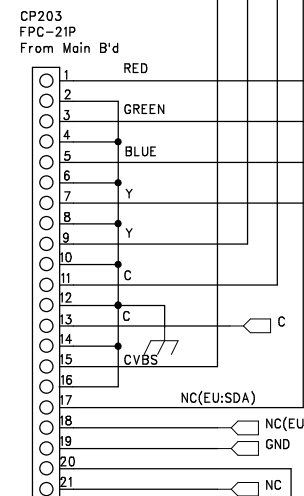
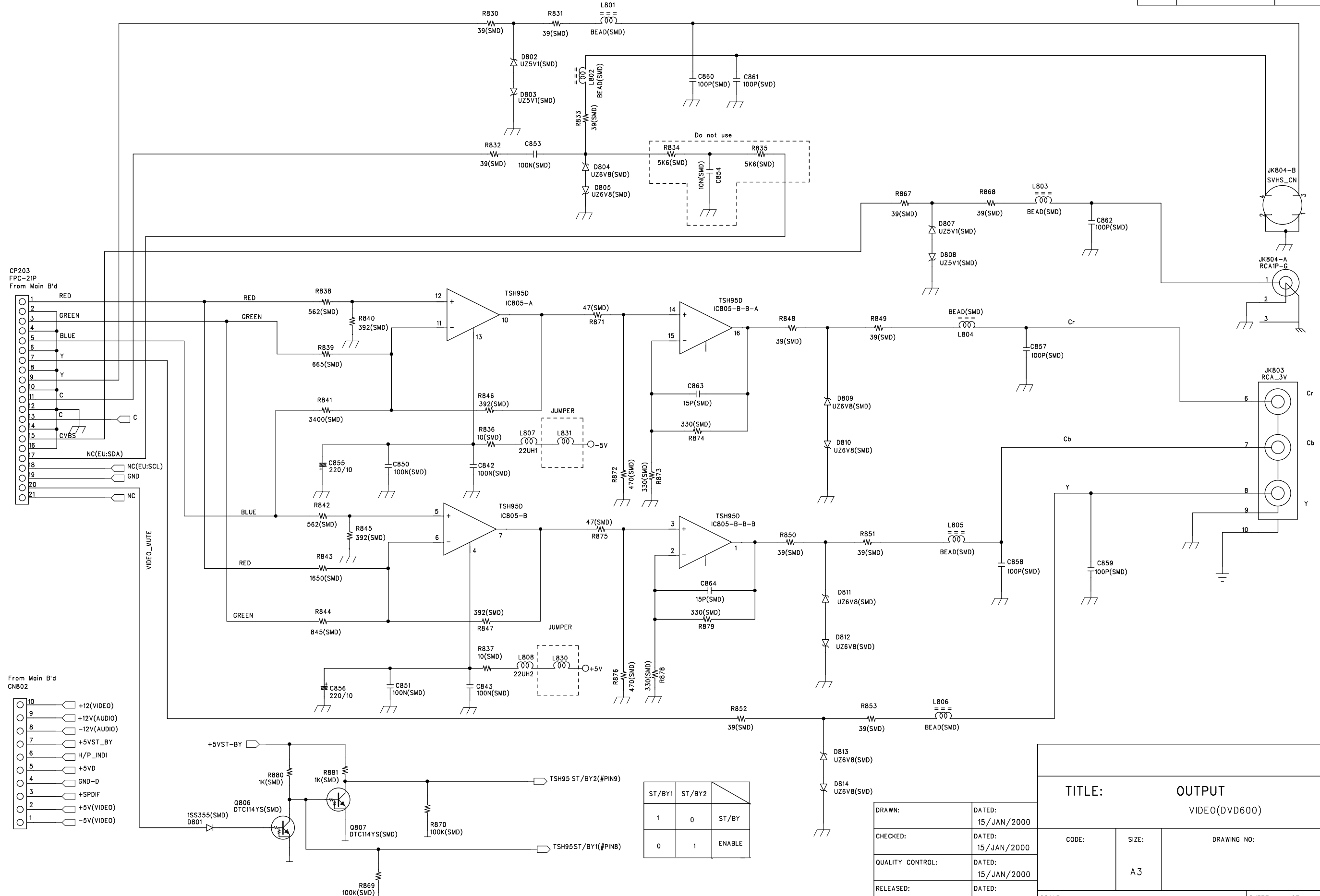
DVD600 Power Supply module, JBL part# **J4090000050X** is supplied only as a complete unit.

DVD600 LASER PICK-UP ASSEMBLY, COMPLETE JBL# 10693900XX

PACKING/ACCESSORIES

J96000038210	BOX CARTON DVD600		1.000
J97200037000	CUSHION FRONT		1.000
J97200013010	CUSHION REAR		1.000
J94330001000	CORD RCA 3P1500 JW-8103M		1.000
J94310004000	MONO PLUG 1P JW-810		1.000
J94310007000	CORD RCA 1P 01000		1.000
J94310009000	CORD RCA 1P Y 1000		1.000

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



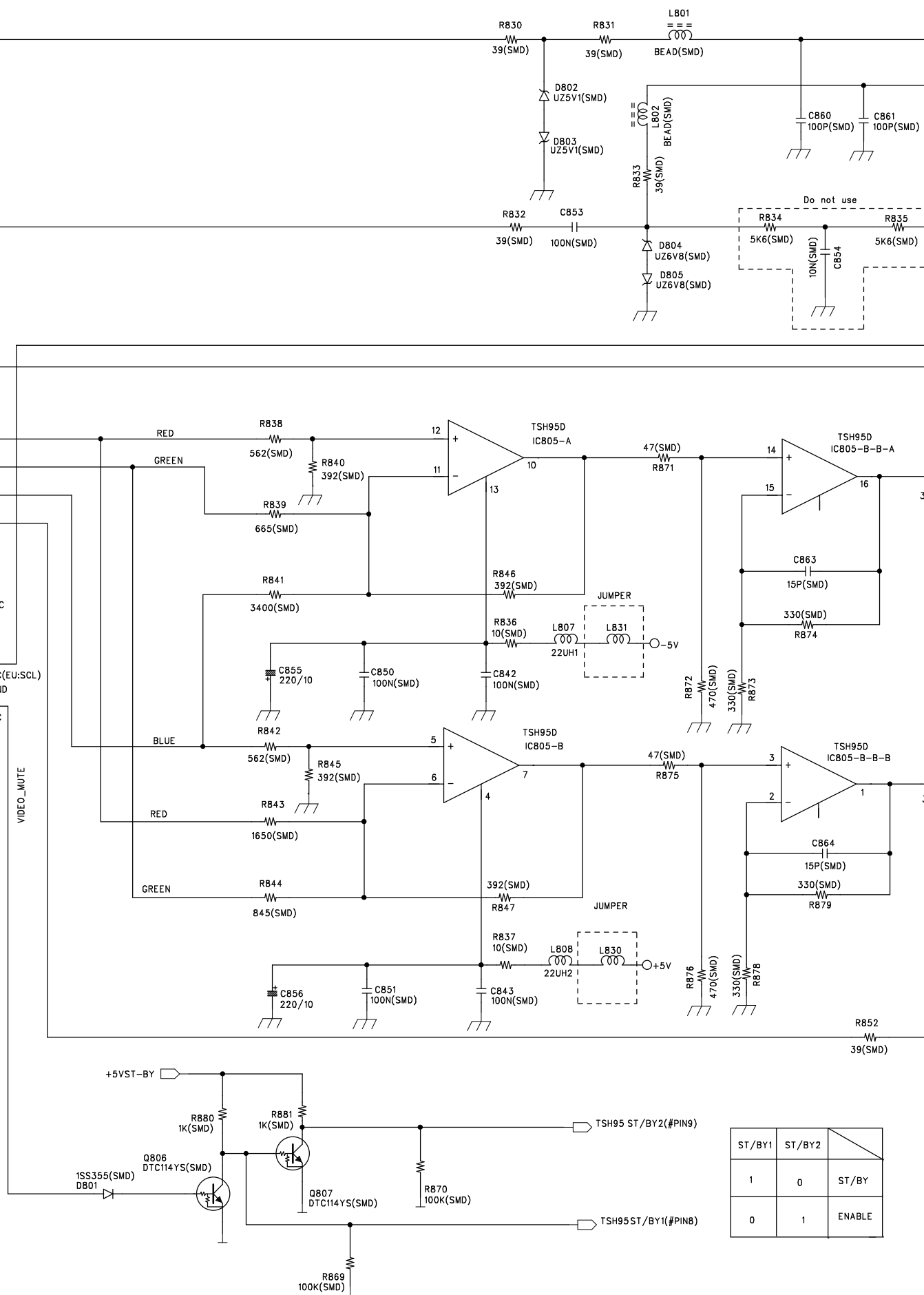
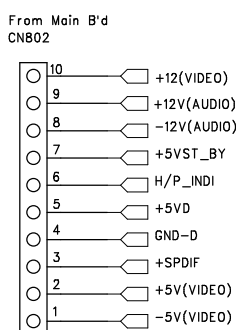
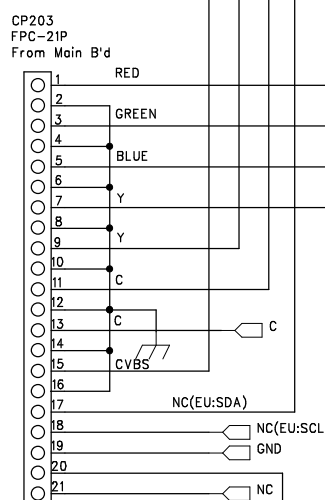
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D

C

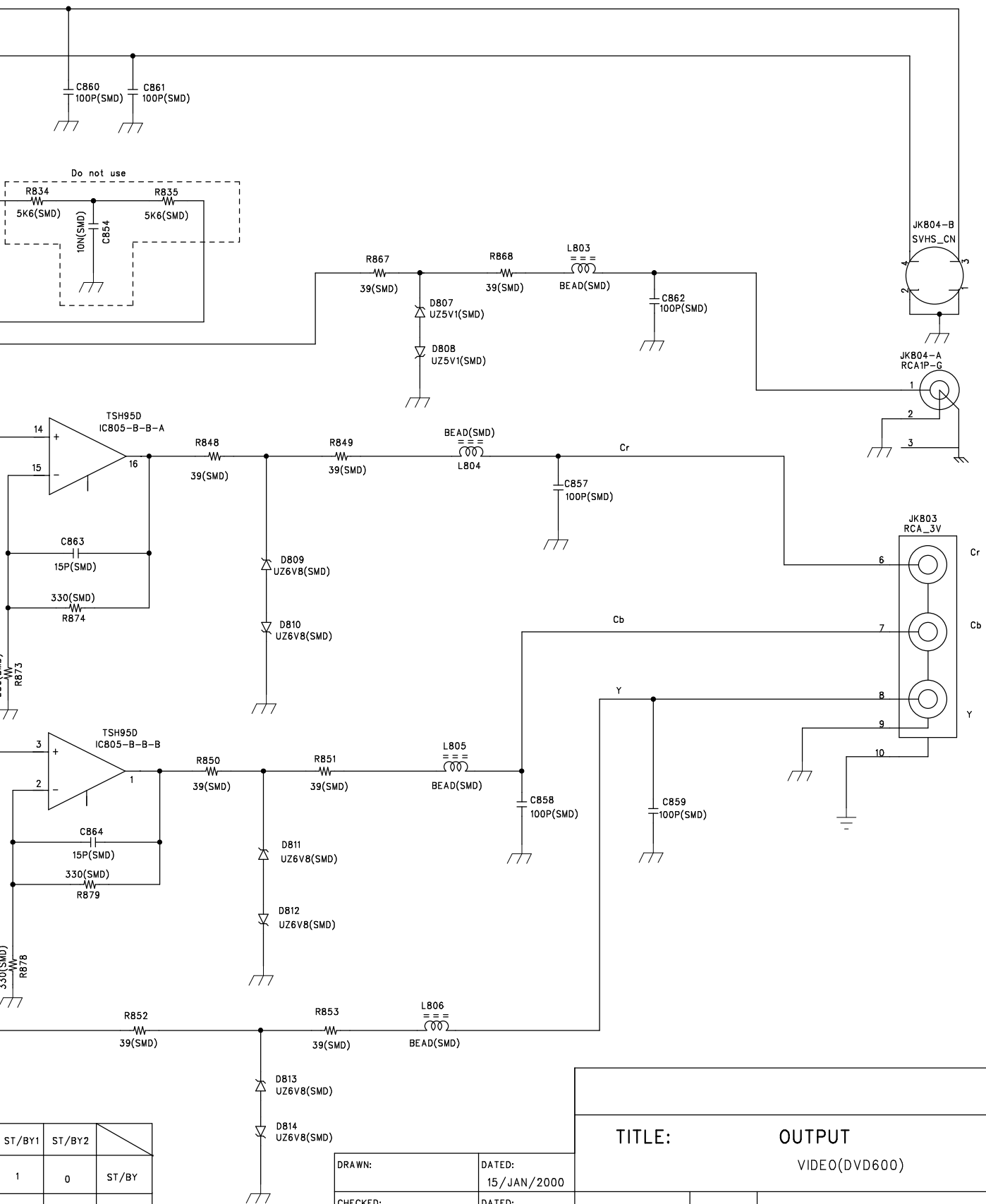
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A



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REVISION RECORD			
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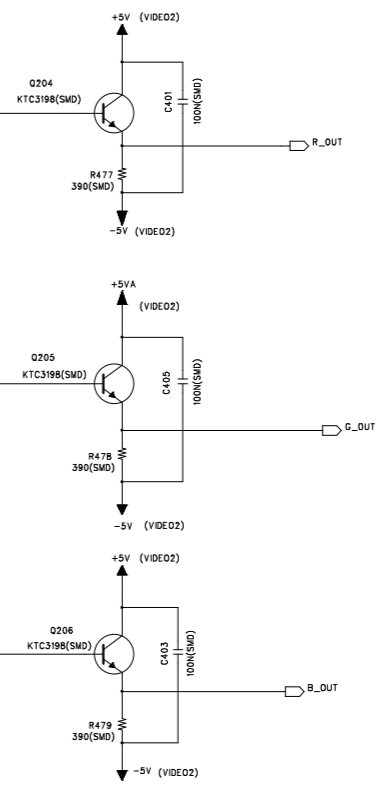
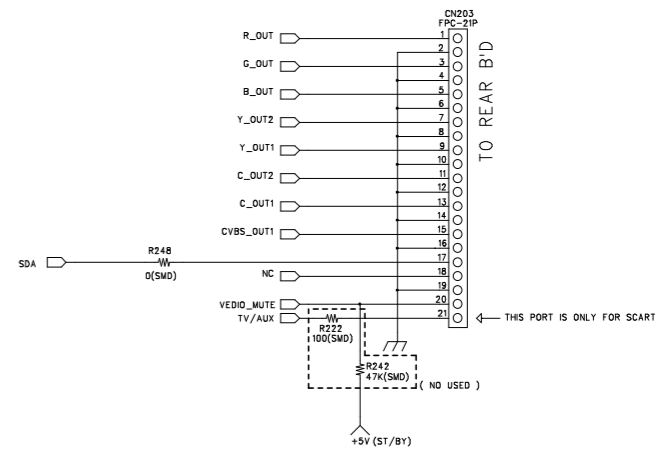
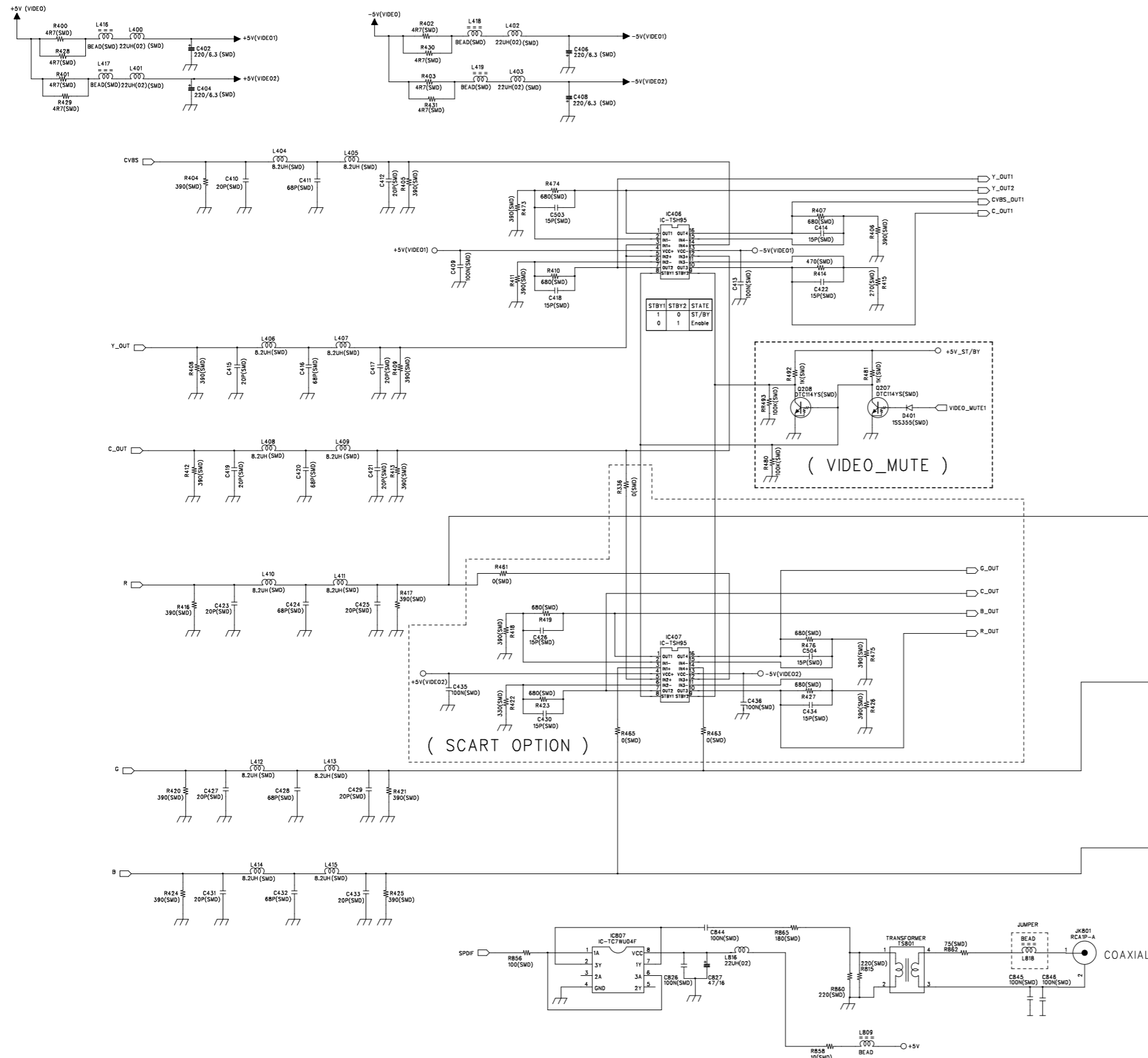
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QUALITY CONTROL:	DATED: 15/JAN/2000
RELEASED:	DATED: DEC/18/2000

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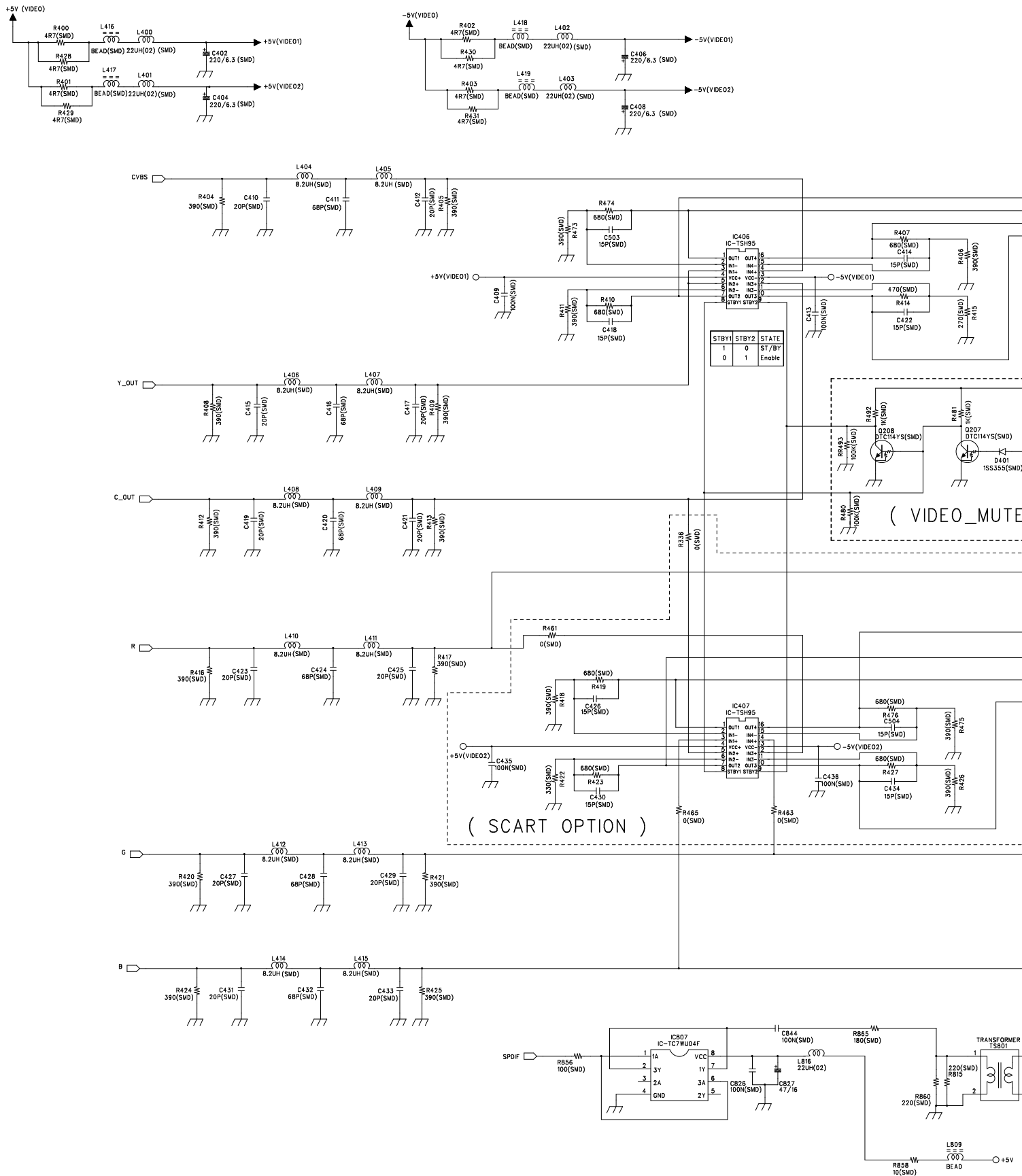
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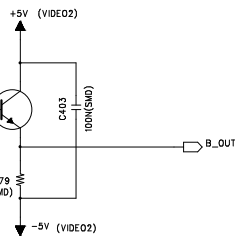
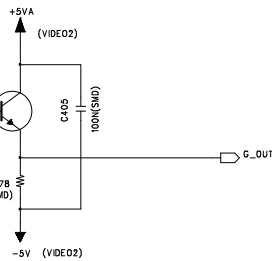
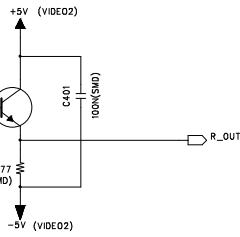
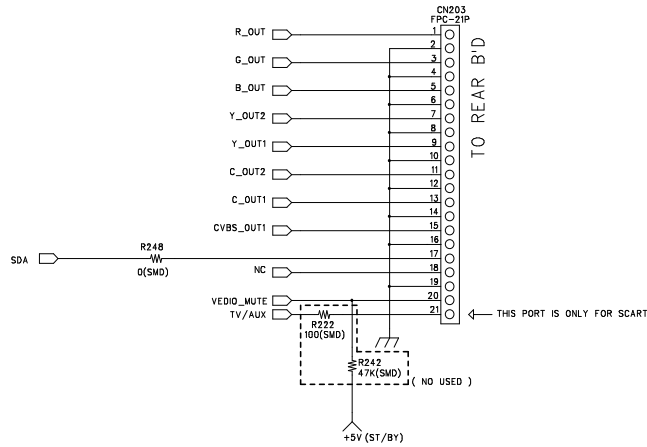
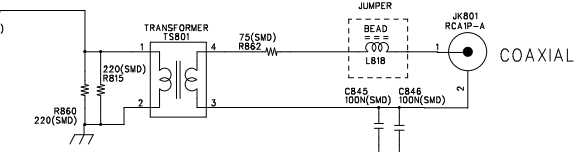
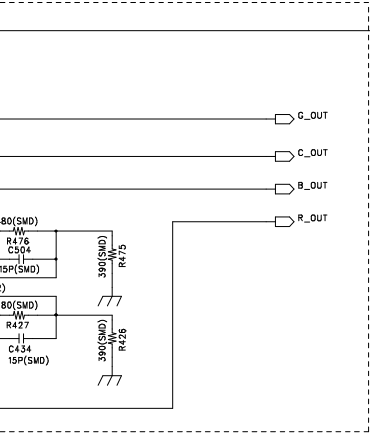
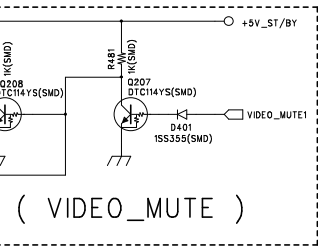
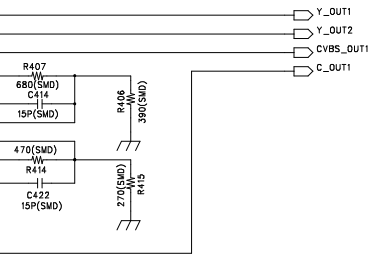
FILENAME VIDEO_OUTPUT	PART NO. MAIN		SHEET 5/5
MODEL DVD600	DESIGN	CHKD	APPROVAL
DESIGN DATE DEC/15/2000			

SCHEMATIC DI



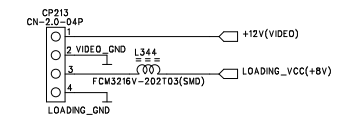
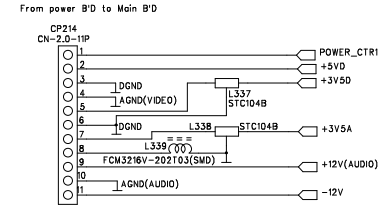
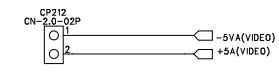
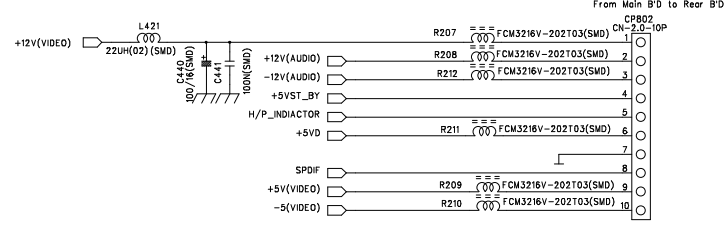
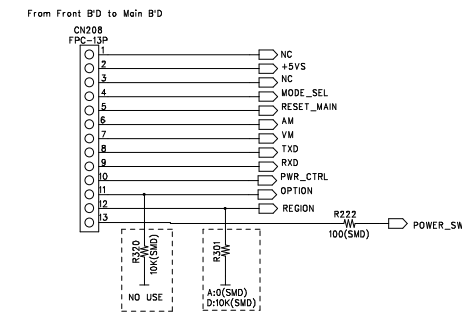
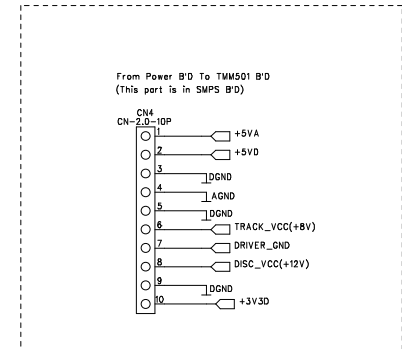
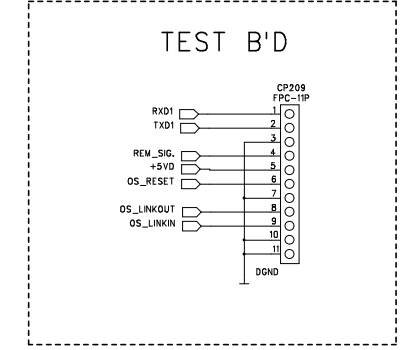
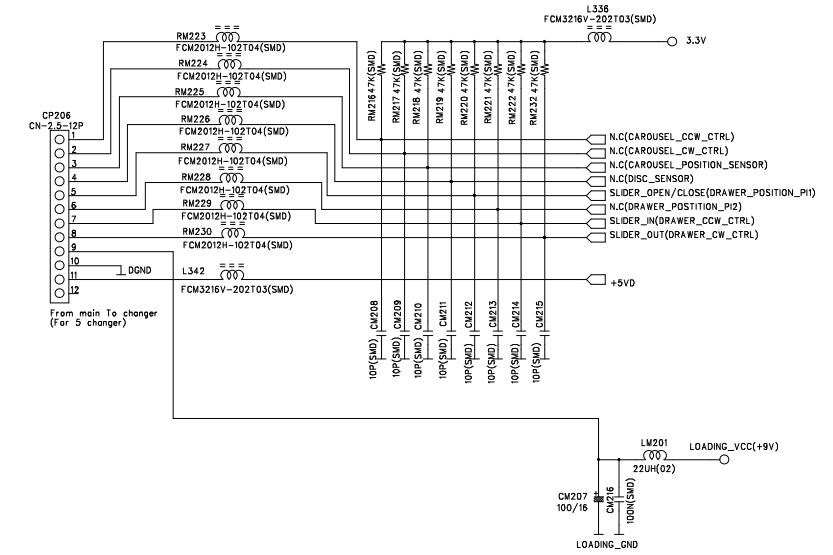
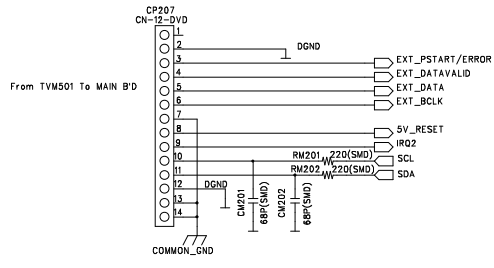
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C DIAGRAM



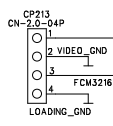
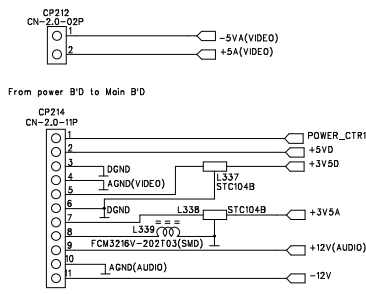
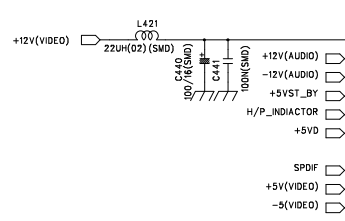
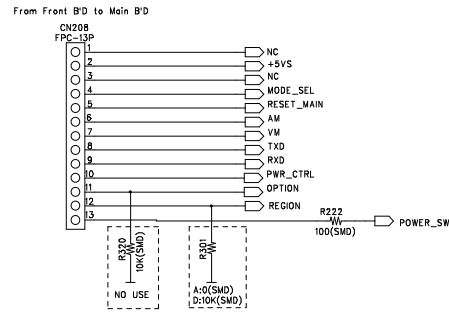
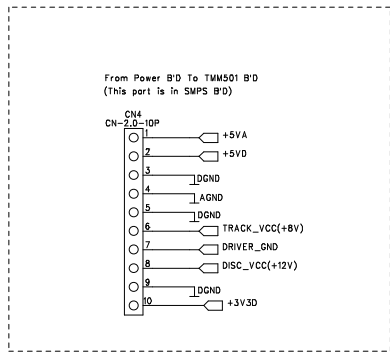
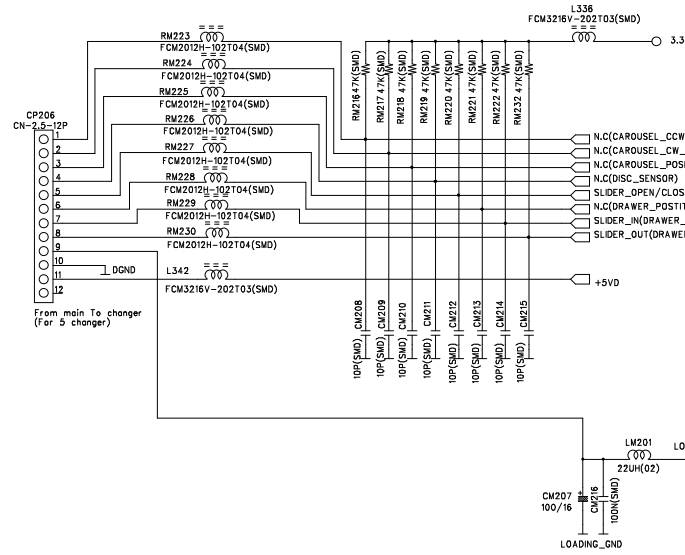
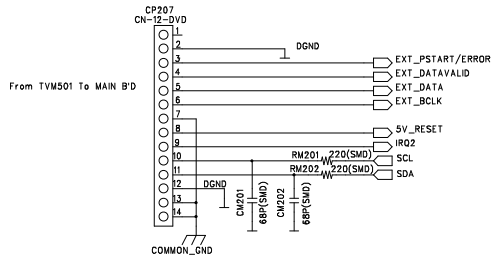
FILENAME VIDEO_OUTPUT	PART NO. MAIN		SHEET 5/5
MODEL DVD600	DESIGN	CHKD	APPROVAL
DESIGN DATE DEC/15/2000			

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS



FILENAME miscs.sch	PART NO.MAIN		SHEET 2/5
MODEL DVD600	DESIGN	CHKD	APPROVAL
DESIGN DATE DEC/15/2000			

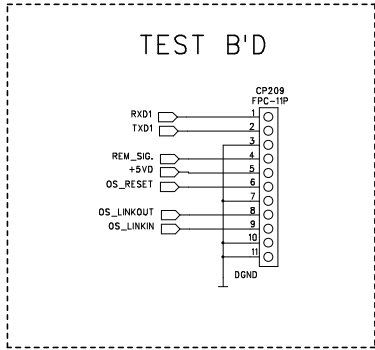
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NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS

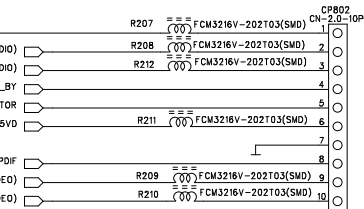
3.3V

SEL_CCW_CTRL)
 SEL_CCW_CTRL)
 SEL_POSITION_SENSOR)
 SENSOR)
 EN/CLOSE(DRAWER_POSITION_P1)
 R_POSITION_P12)
 DRAWER_CCW_CTRL)
 T(DRAWER_CCW_CTRL)



01
LOADING_VCC(+9V)
02

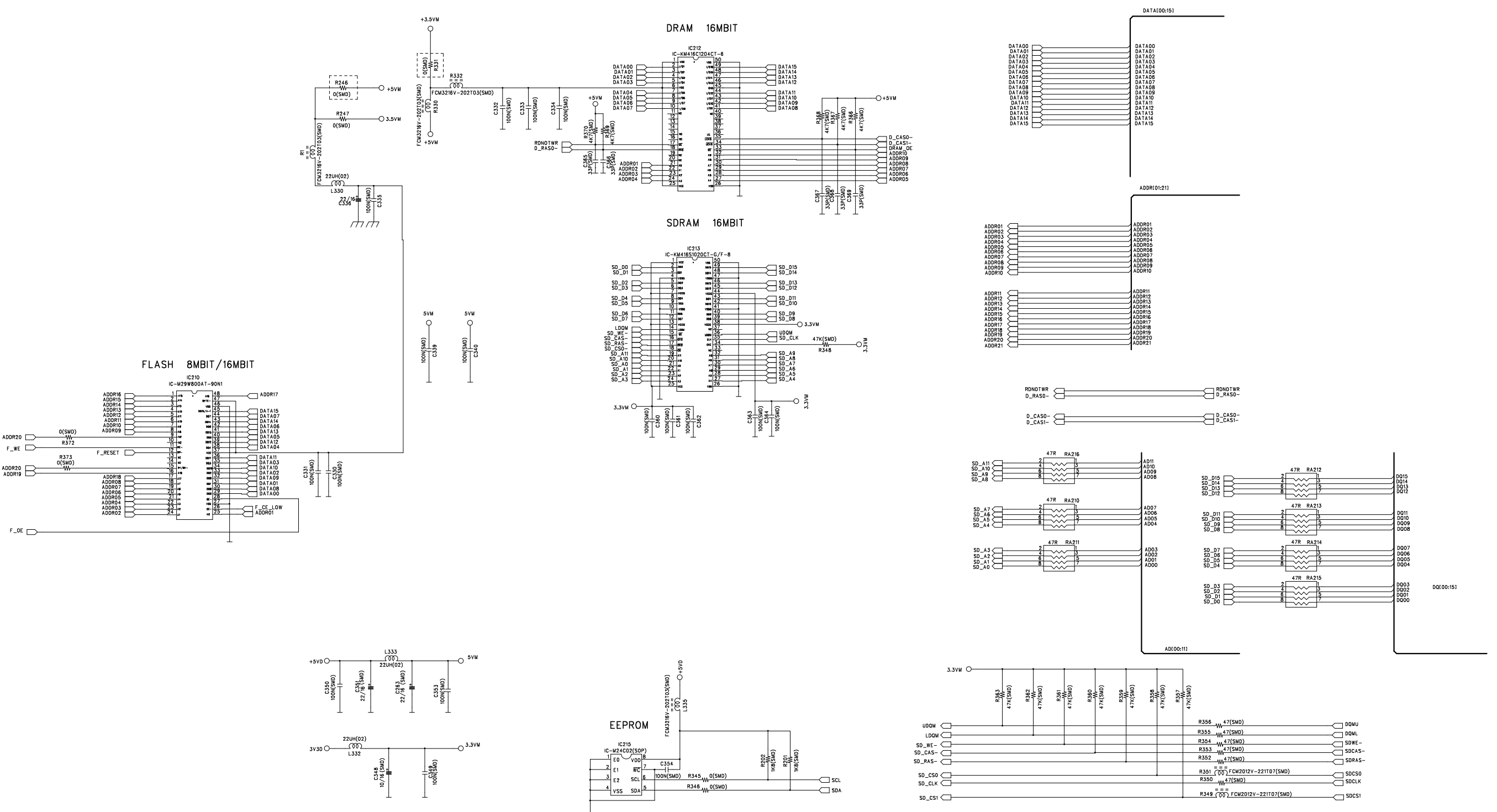
From Main B'D to Rear B'D



FILENAME miscs.sch	PART NO.MAIN		SHEET 2/5
MODEL DVD600	DESIGN	CHKD	APPROVAL
DESIGN DATE DEC/15/2000			

SCHEMATIC DIAGRAM

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS



FILENAME MEMORY	PART NO. MAIN		SHEET 3/5
MODEL DVD600	DESIGN	CHKD	APPROVAL
DESIGN DATE DEC/15/2000			

SCHEMATIC DI

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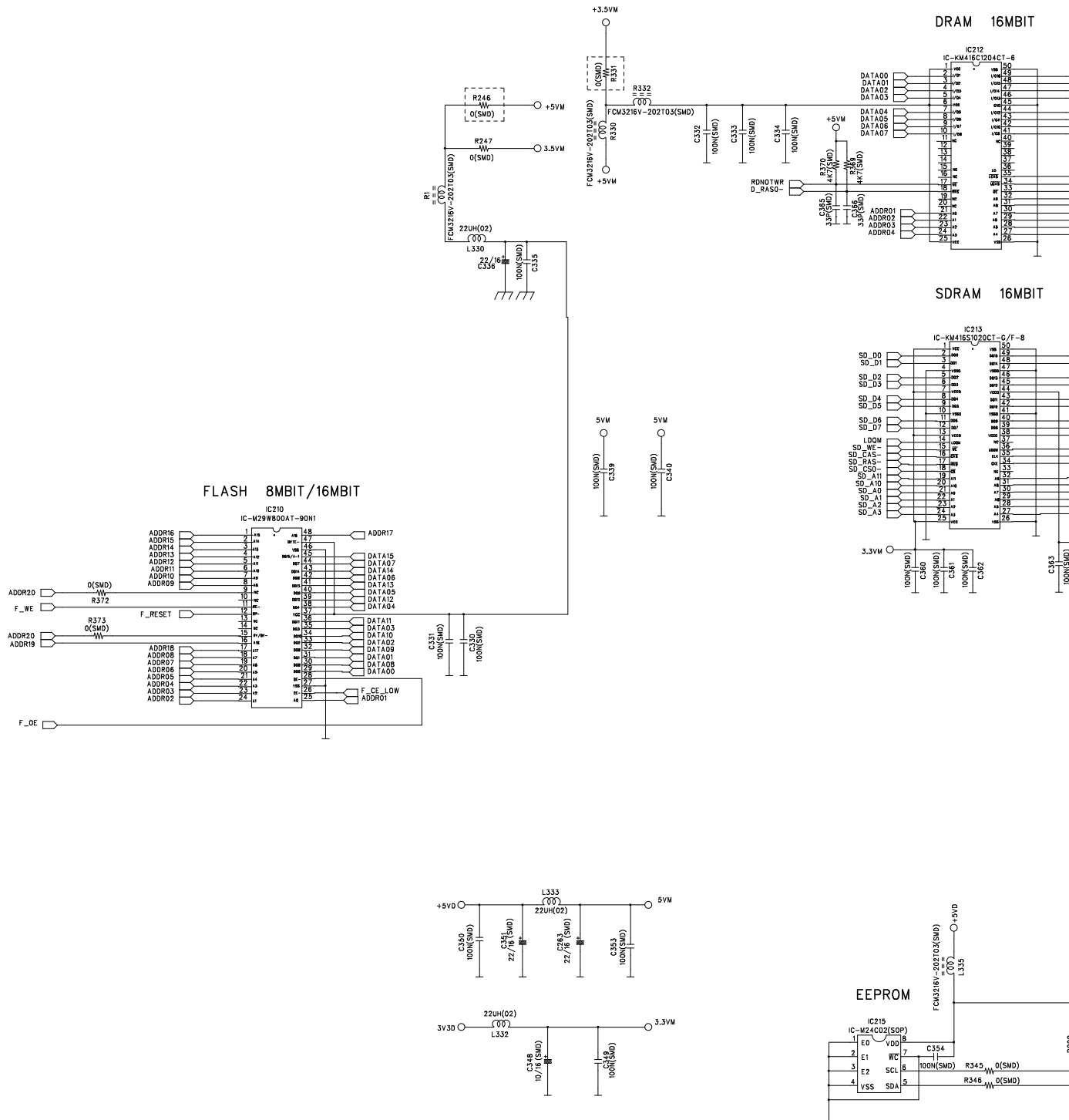
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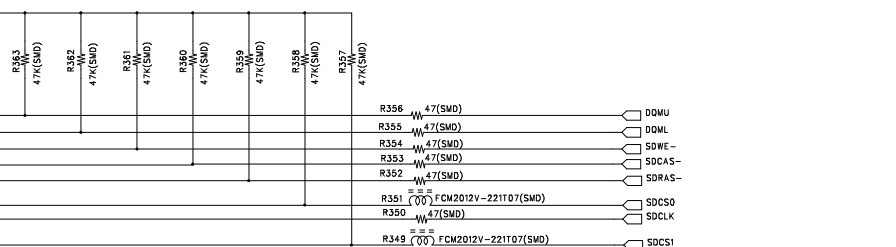
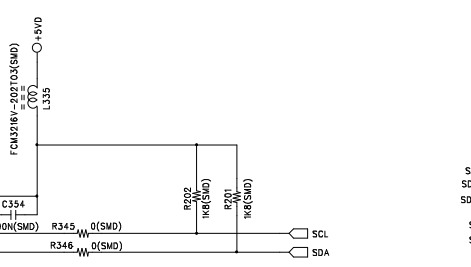
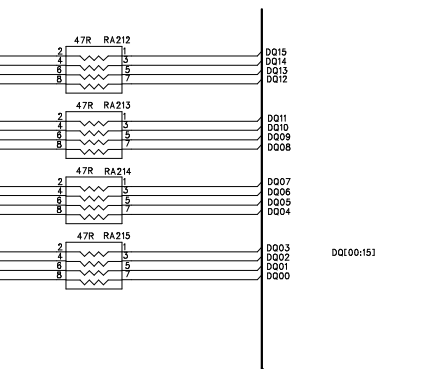
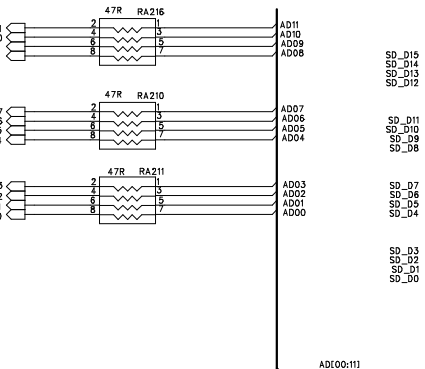
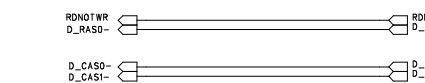
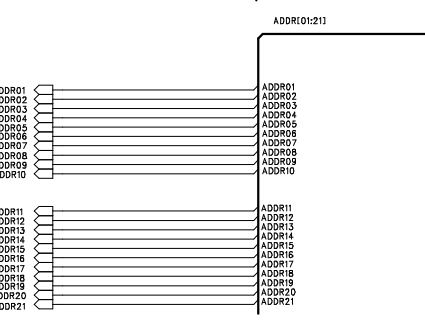
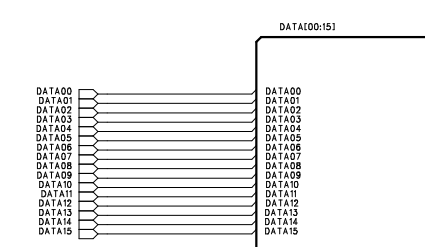
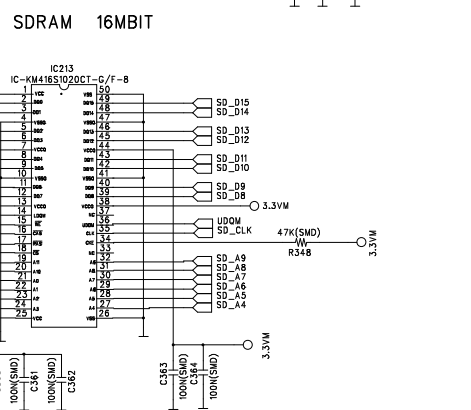
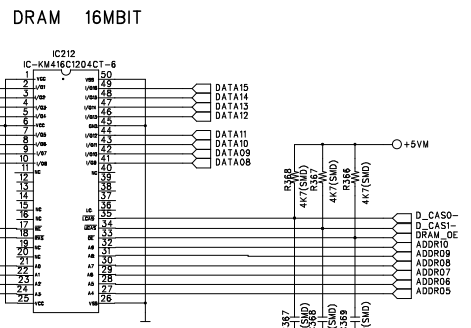
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C DIAGRAM

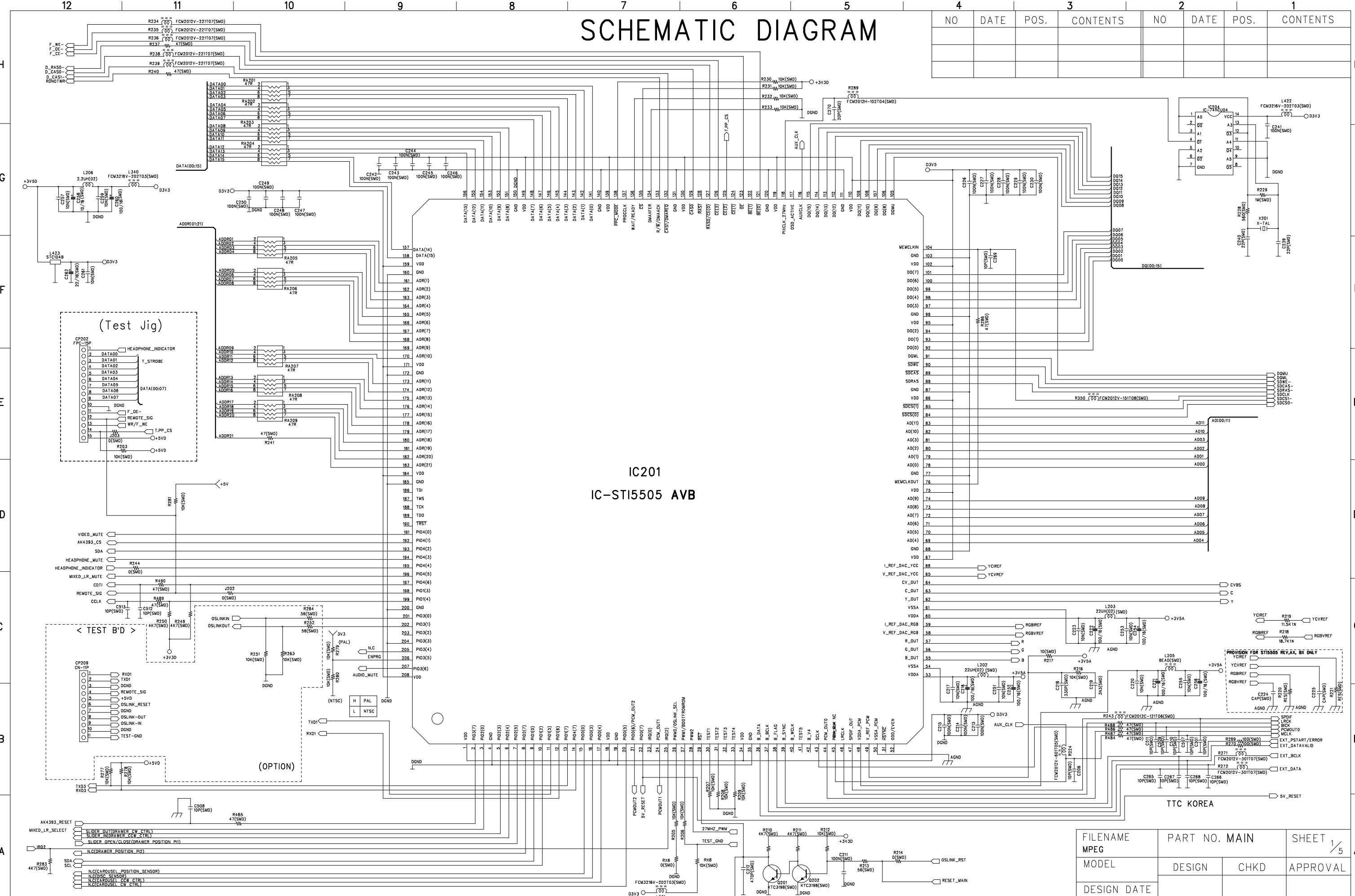
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NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS



FILENAME MEMORY	PART NO. MAIN		SHEET 3/5
MODEL DVD600	DESIGN	CHKD	APPROVAL
DESIGN DATE DEC/15/2000			

SCHEMATIC DIAGRAM

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS



IC201
IC-ST15505 AVB

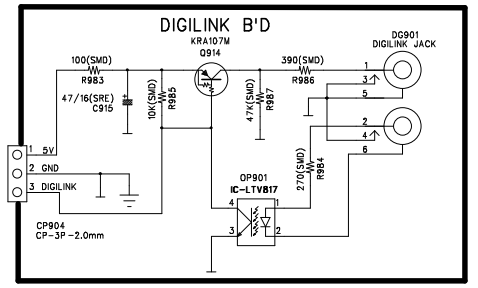
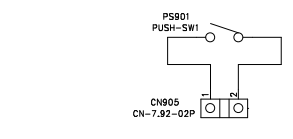
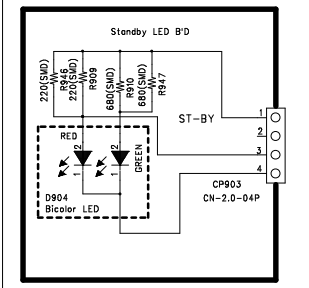
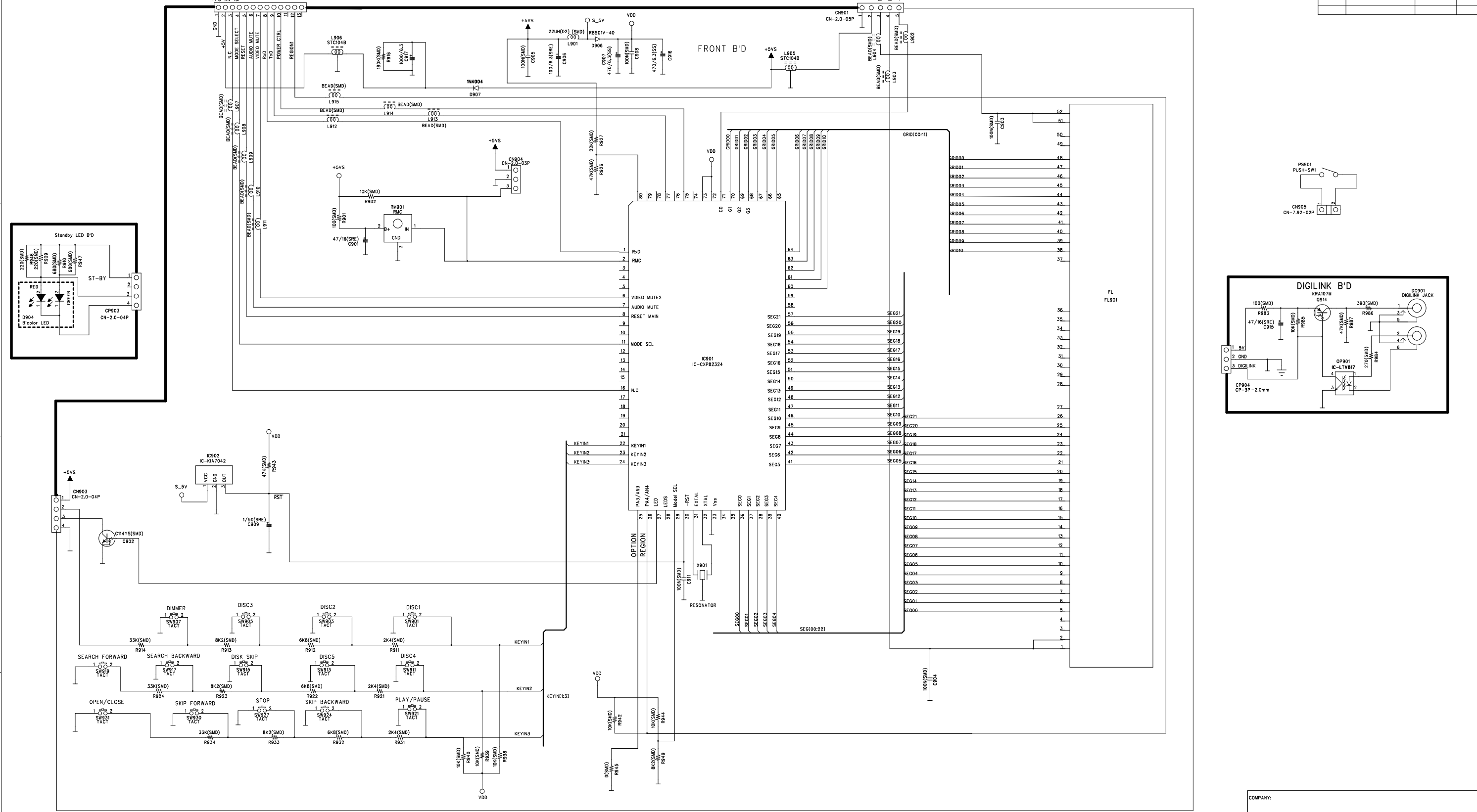
TTC KOREA

FILENAME MPEG	PART NO. MAIN	SHEET 1/5
MODEL	DESIGN	CHKD
DESIGN DATE 4/JAN/2000	EXT_DATA	APPROVAL

REVISION RECORD			
LTR	ECD NO:	APPROVED:	DATE:

TO MAIN
CC902 : CARD CABLE 1mm 13P 150mm

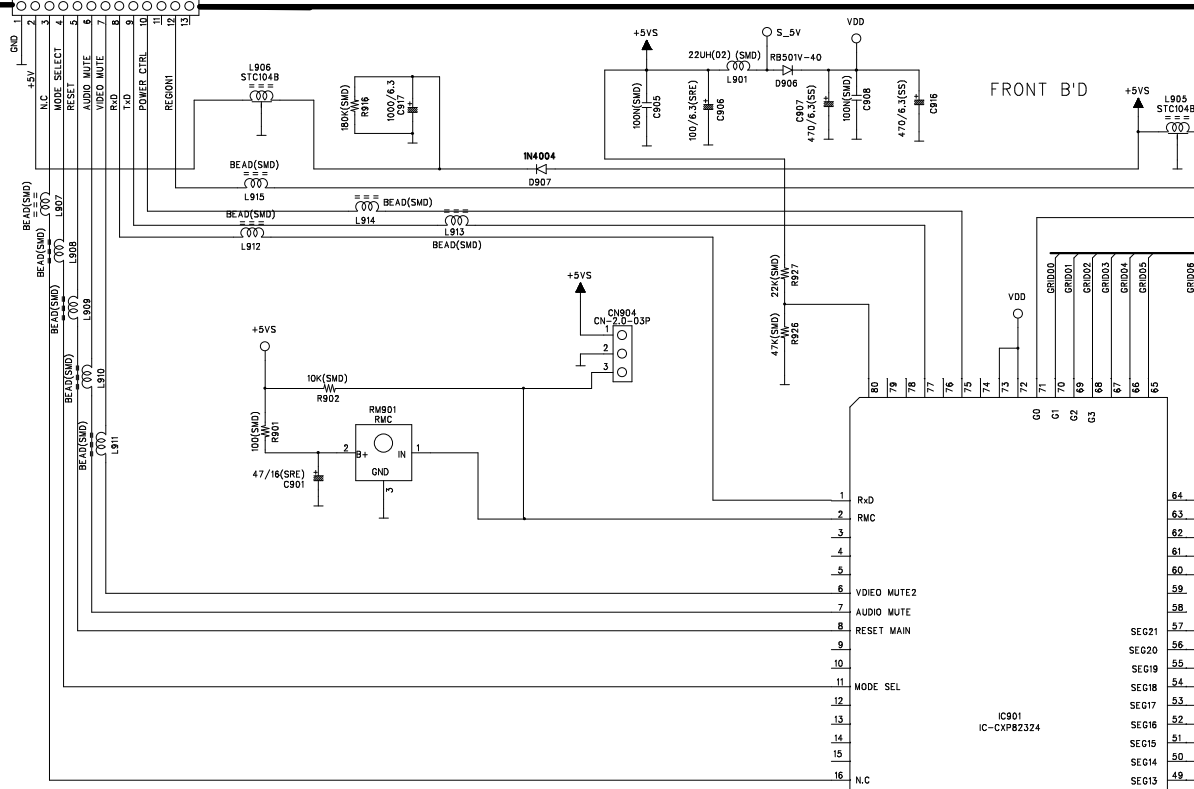
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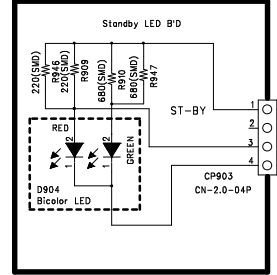
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TITLE: FRONT (DVD600)			
DESIGN:	DATED: 26/JAN/2000	CODE:	SIZE:
CHKD:	DATED: 26/JAN/2000	DRAWING NO:	REV: 01
CHKD:	DATED: 26/JAN/2000	SCALE:	SHEET: 1 OF 1
APPROVAL:	DATED: 15/DEC/2000		

TO MAIN
CC902 : CARD CABLE 1mm 13P 150mm

CN902
FPC-AN-13P



FRONT B'D



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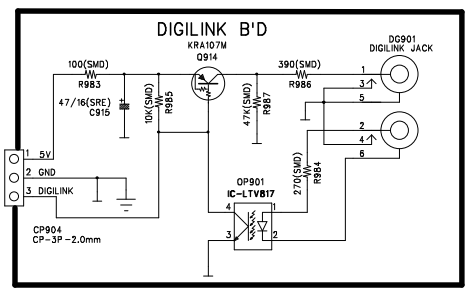
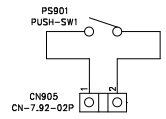
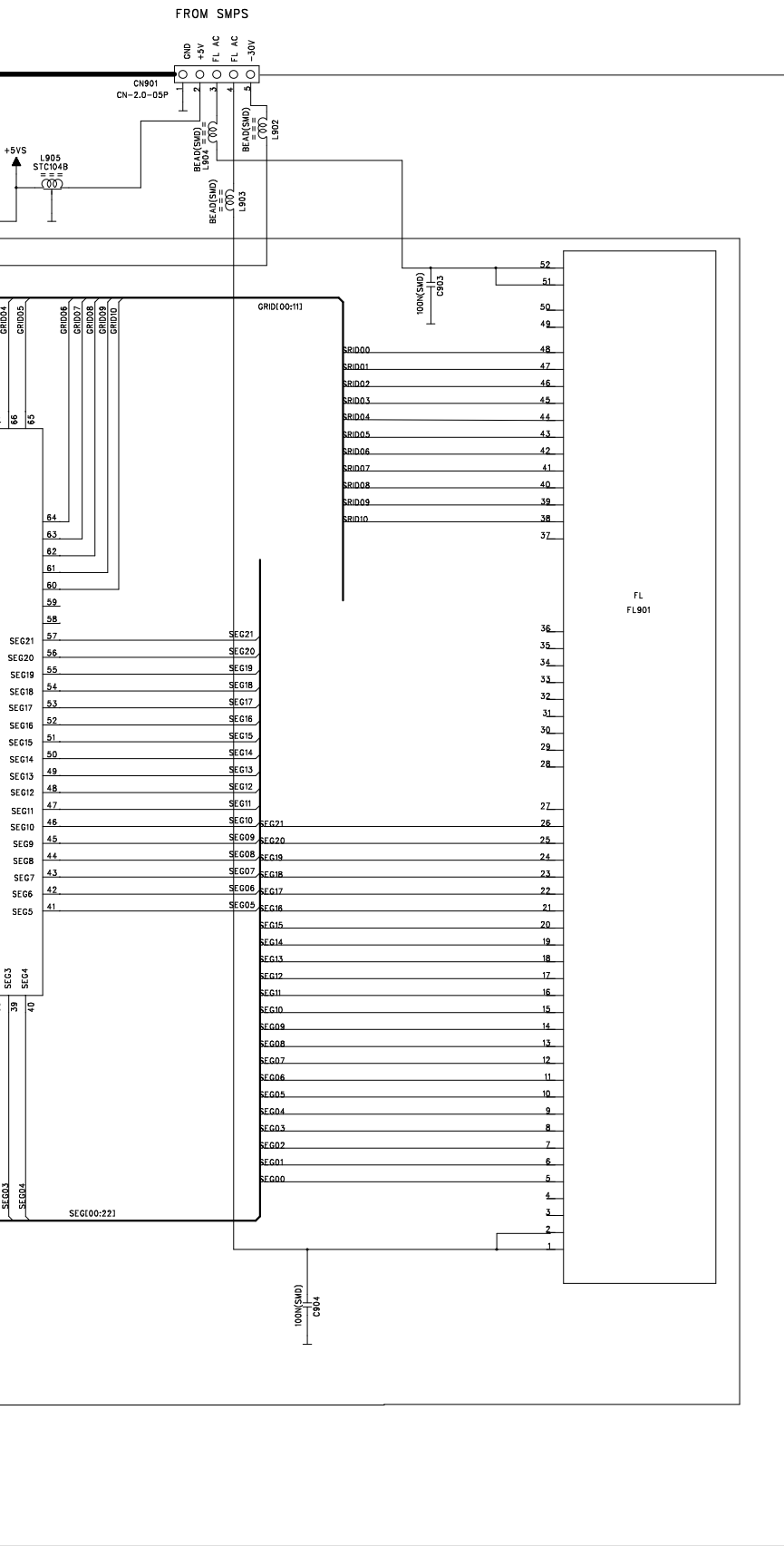
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- SEG21
- SEG20
- SEG19
- SEG18
- SEG17
- SEG16
- SEG15
- SEG14
- SEG13
- SEG12
- SEG11
- SEG10
- SEG9
- SEG8
- SEG7
- SEG6
- SEG5

- OPTION REGION
- PA3/AN3
- PA4/AN4
- LED
- LED5
- Mode SEL
- RST
- XTAL
- XTAL
- V88
- SEG00
- SEG01
- SEG02
- SEG03
- SEG04

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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY:			
TITLE:			
FRONT (DVD600)			
DESIGN:	DATED:	CODE:	REV:
CHKD:	26/JAN/2000	A3	01
CHKD:	26/JAN/2000	DRAWING NO:	
APPROVAL:	15/DEC/2000	SCALE:	SHEET: 1 OF 1

D

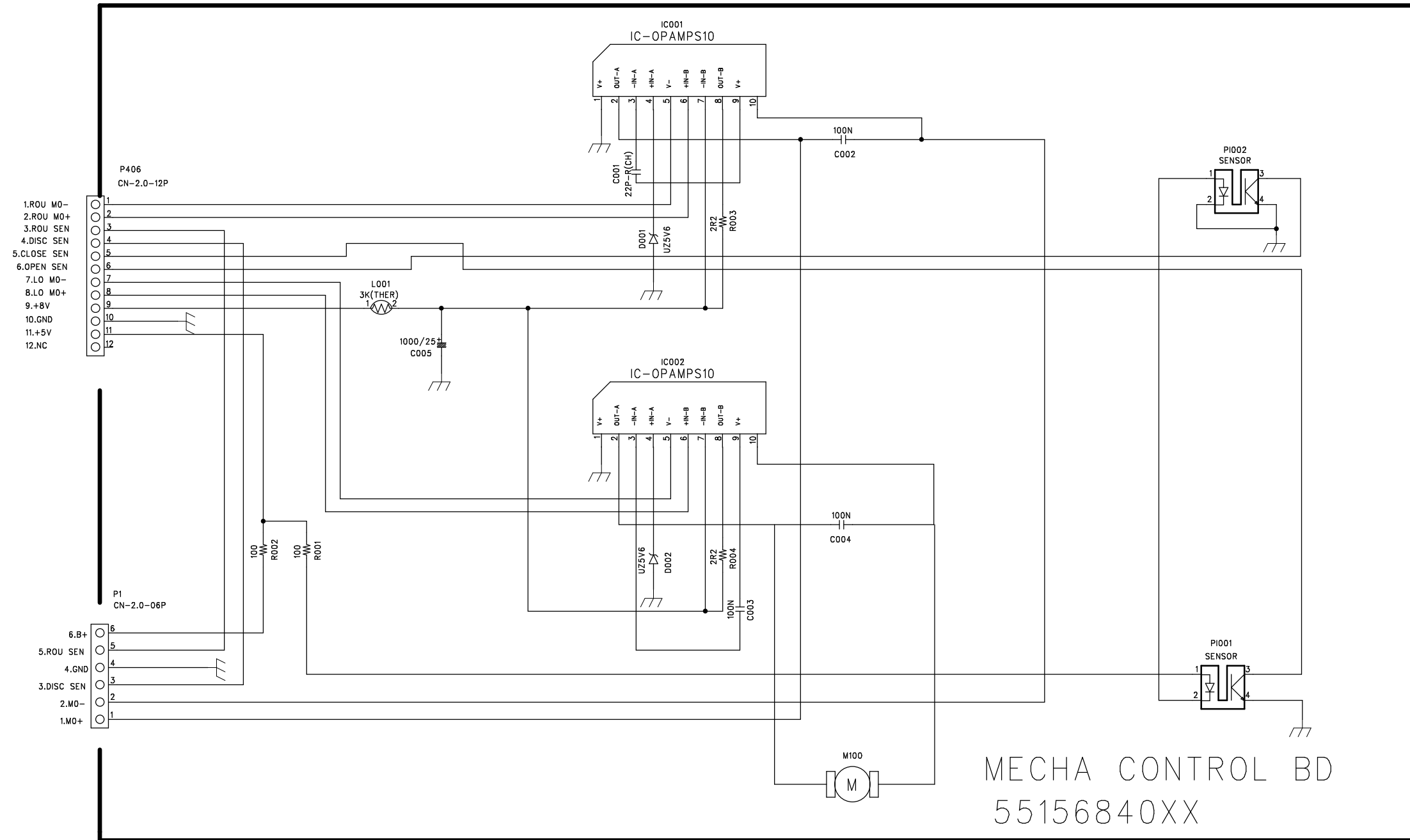
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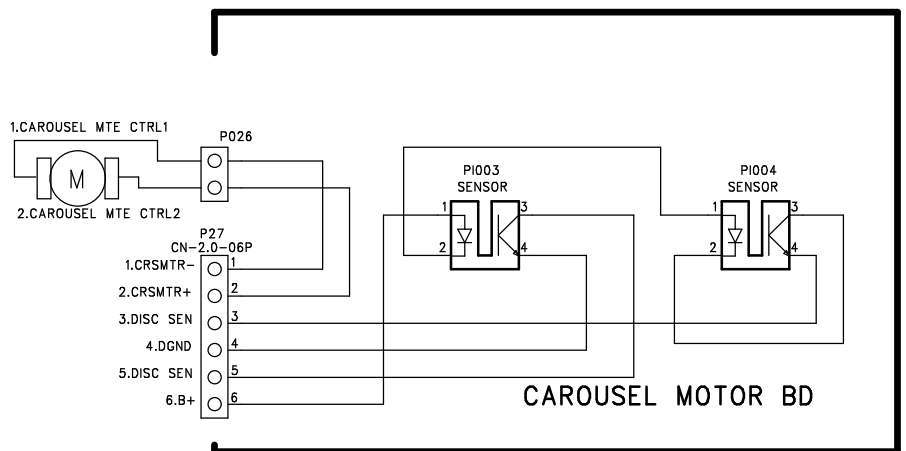
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

RC-5920P MECHA SCHEMATIC DIAGRAM



MECHA CONTROL BD
55156840XX



CAROUSEL MOTOR BD

CONFIDENTIAL/CONTROL COPY			
FILENAME CONTROL	DRAWING NO.		SHEET /
MODEL	DESIGN	CHKD	APPROVAL
DESIGN DATE 13/AUG/2001			