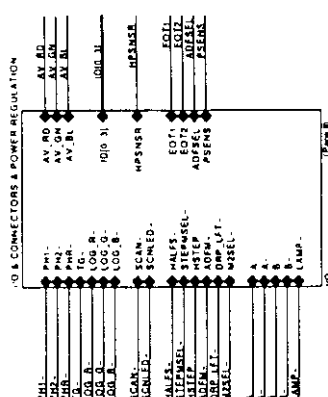
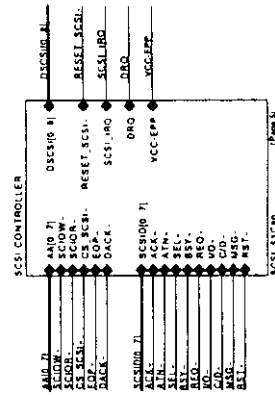
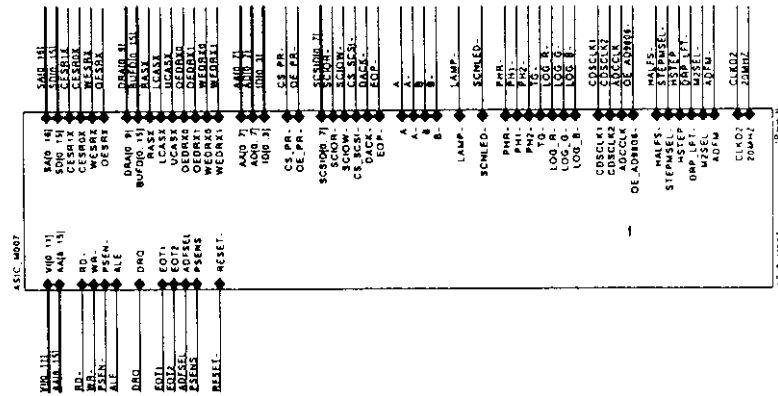
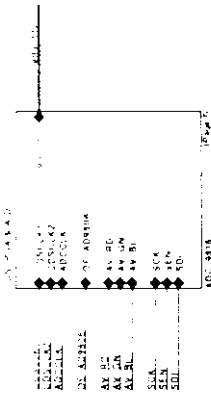
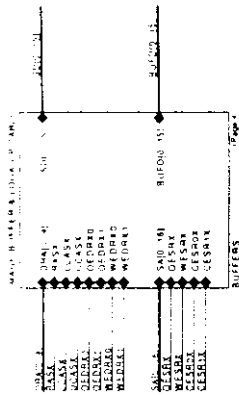
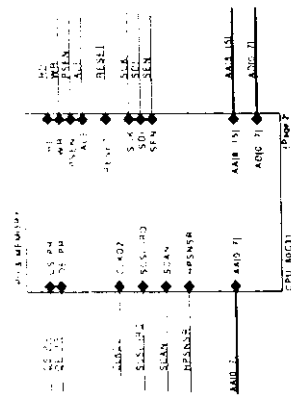
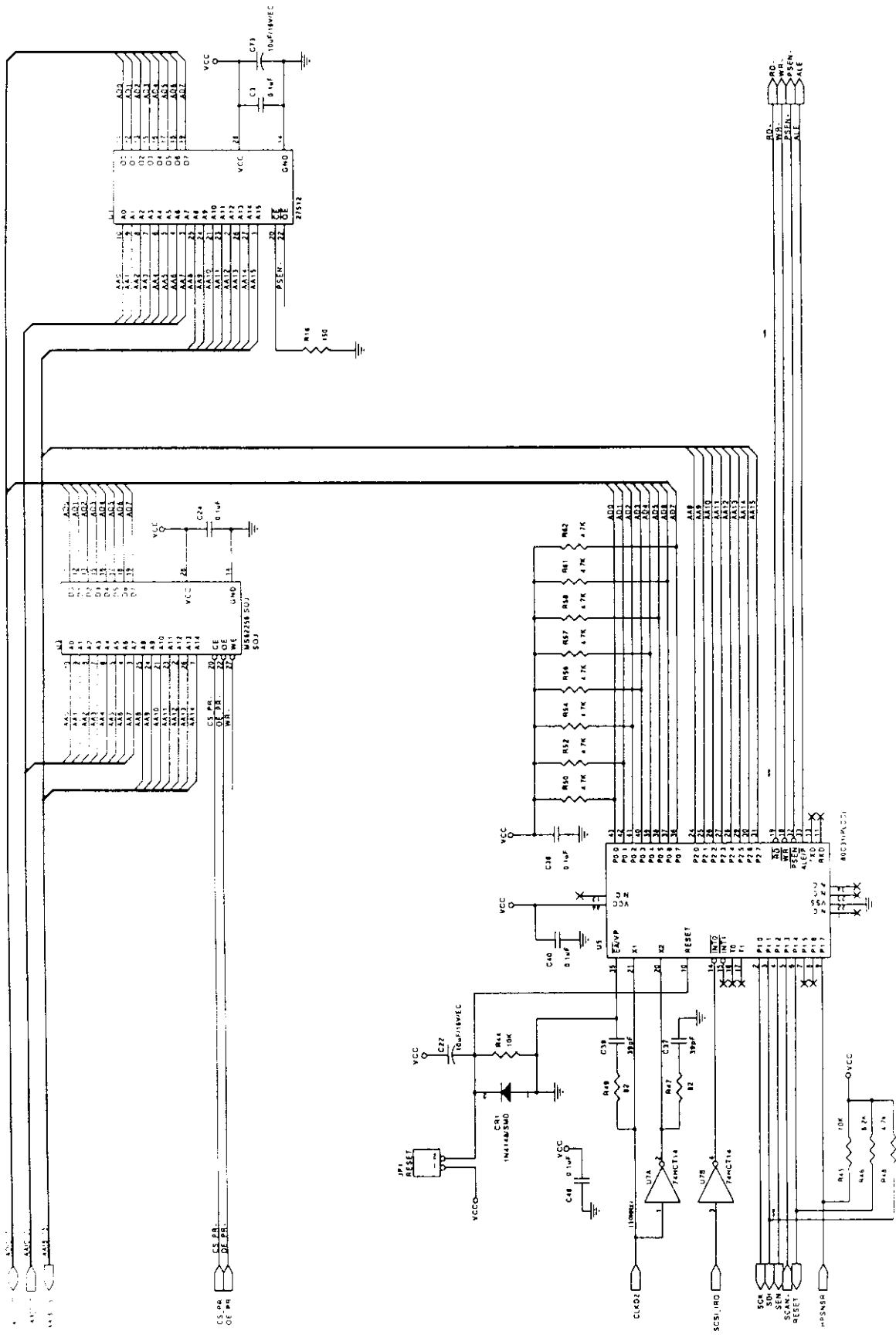
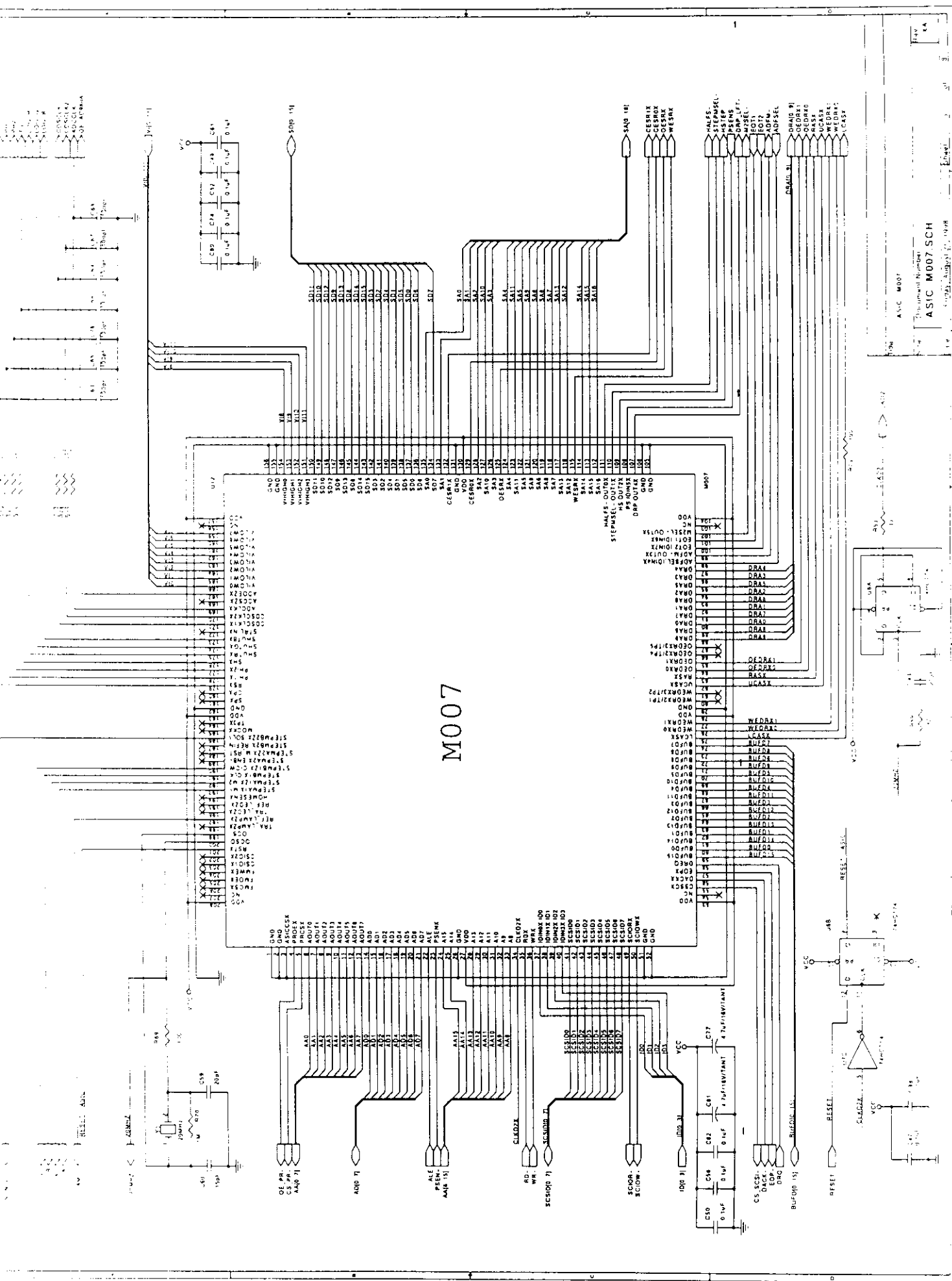




PRIVATE RAM ROM & FLASH MEMORY
Document Number
CPU 80C31 SCH
1-04-800000-01-0000



M007

ASIC M007
Document Number
ASIC M007 SCH

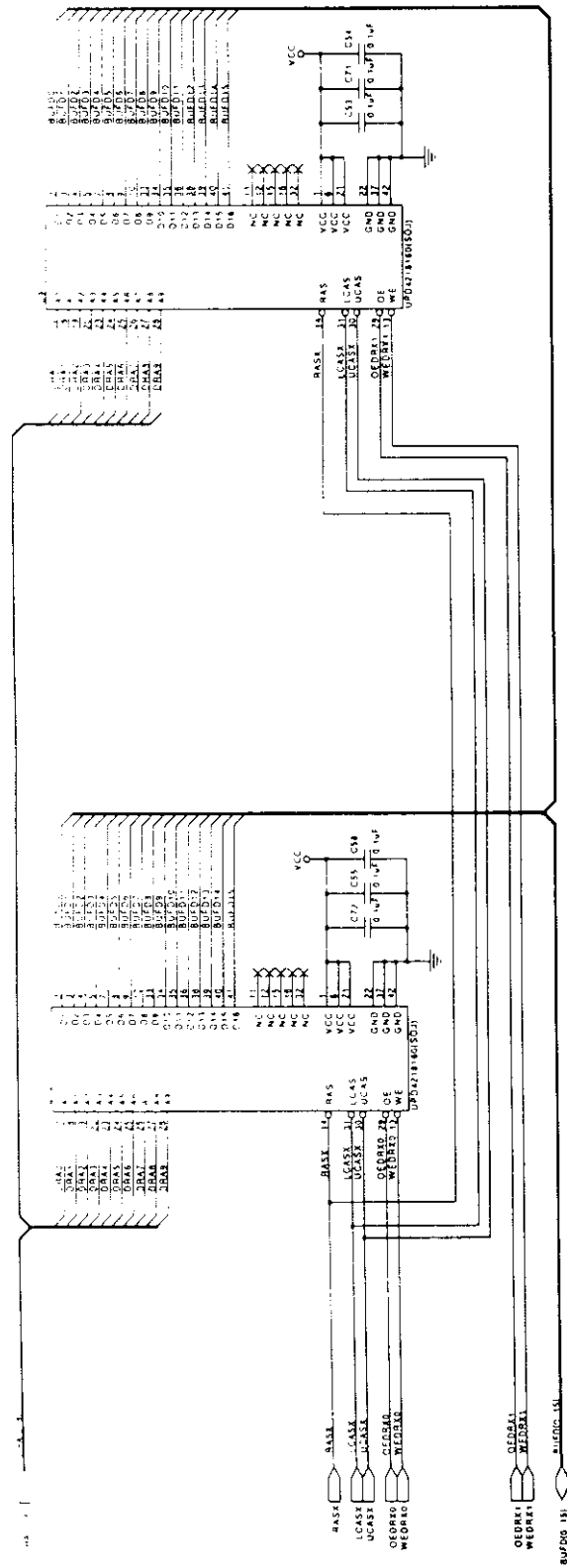
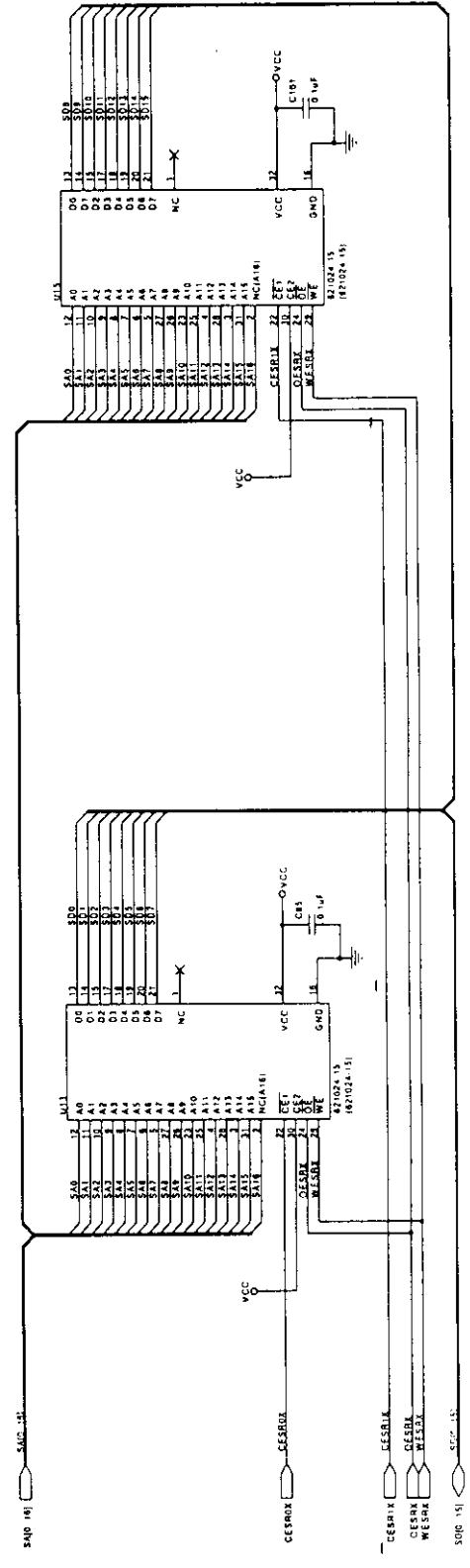
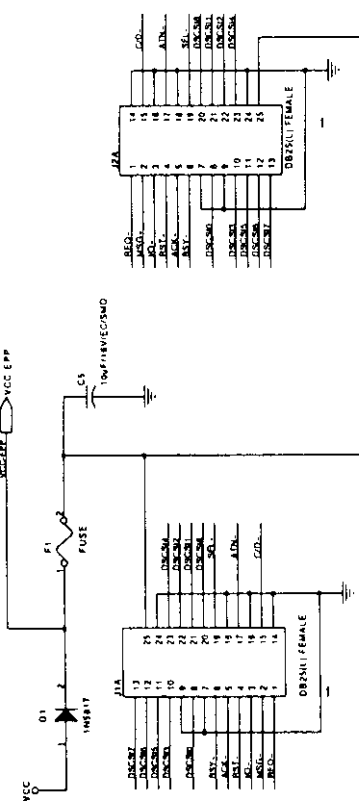
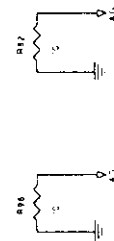


IMAGE BUFFER



SYSTEM RAM (LOOK-UP TABLE)





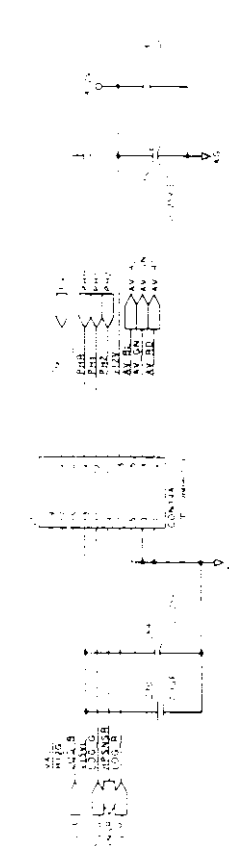
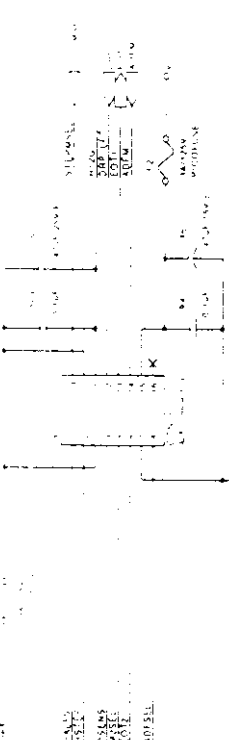


FIG. 1-14 POWER SUPPLY

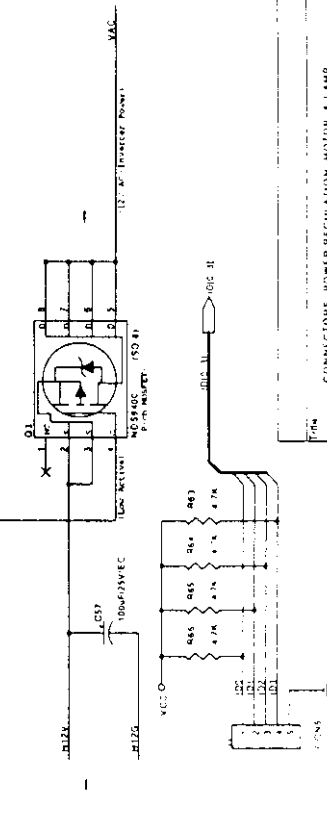
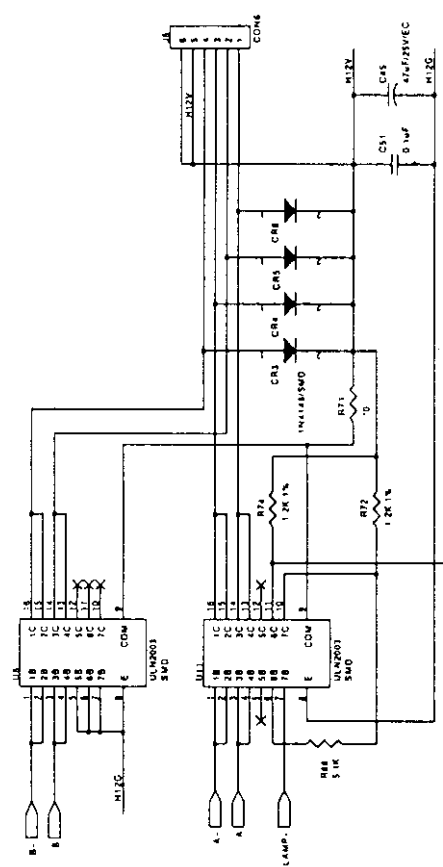
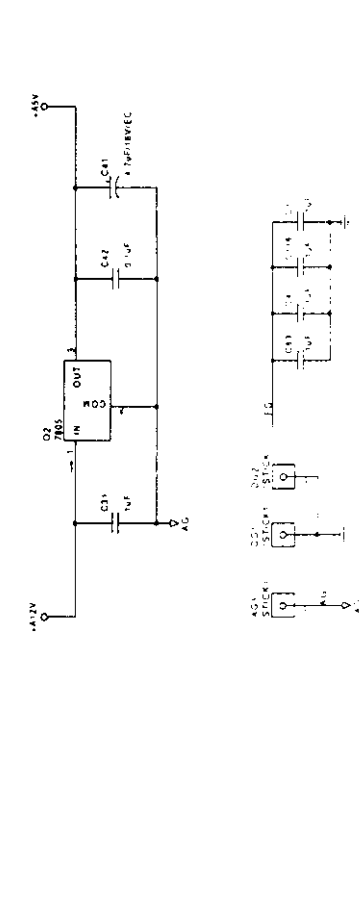
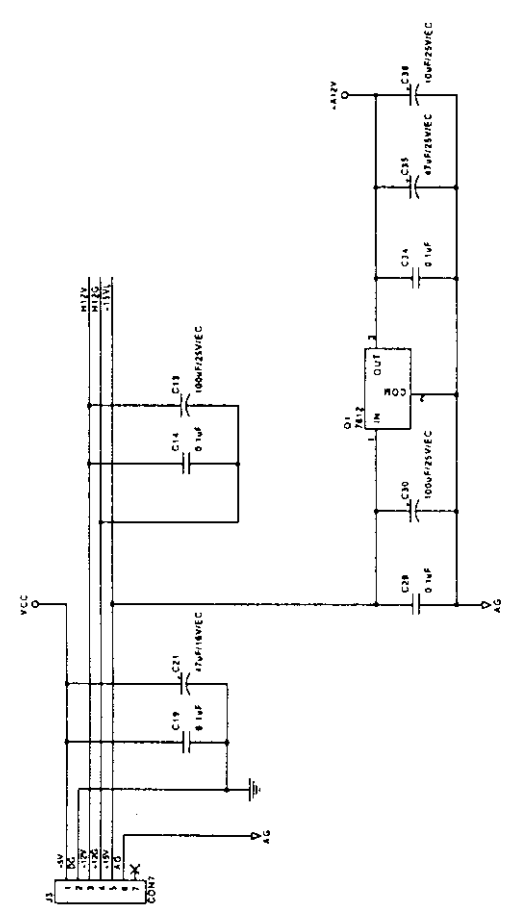
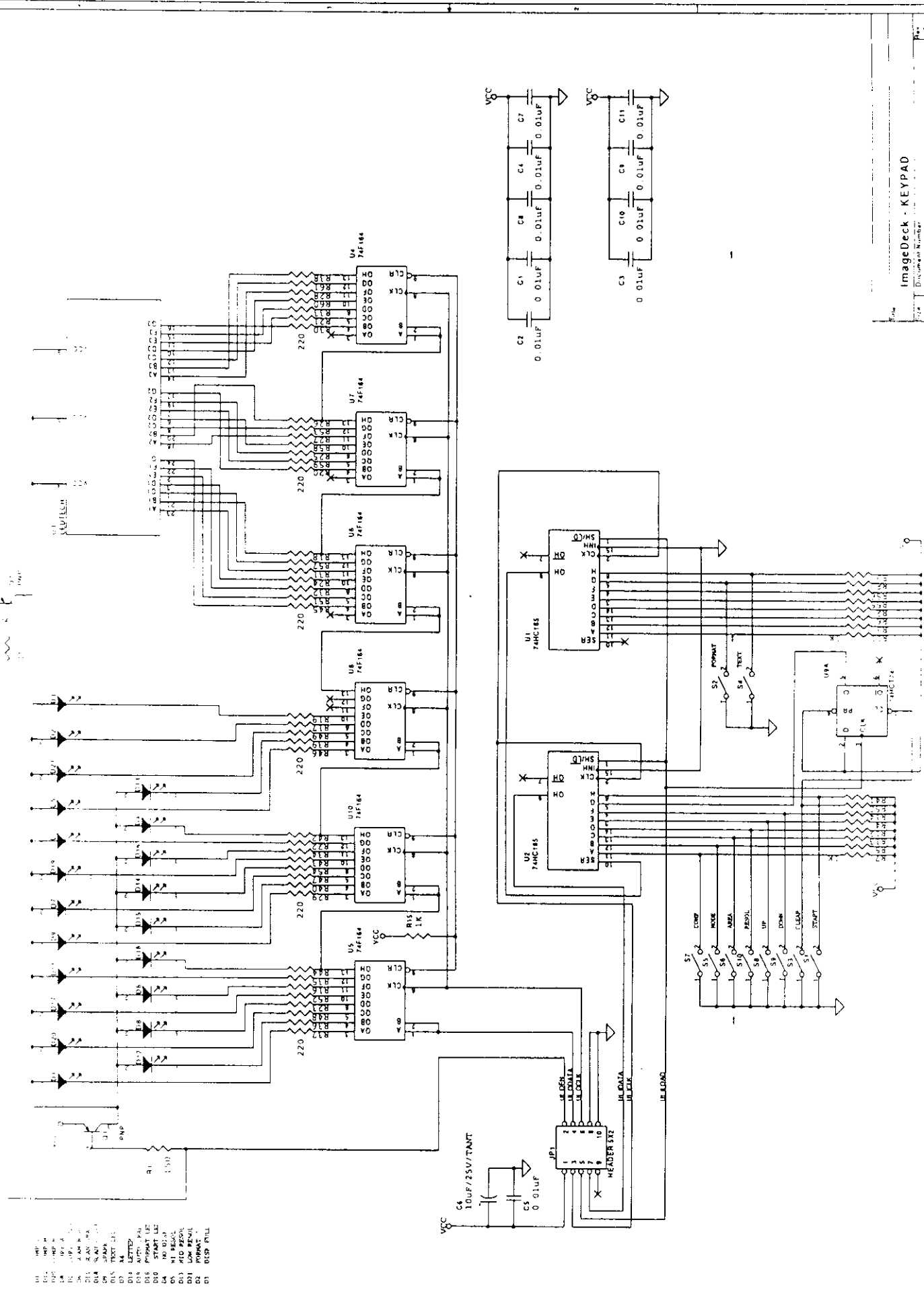


FIG. 1-15 POWER REGULATION MOTOR & LAMP

Document Number
110 SCH



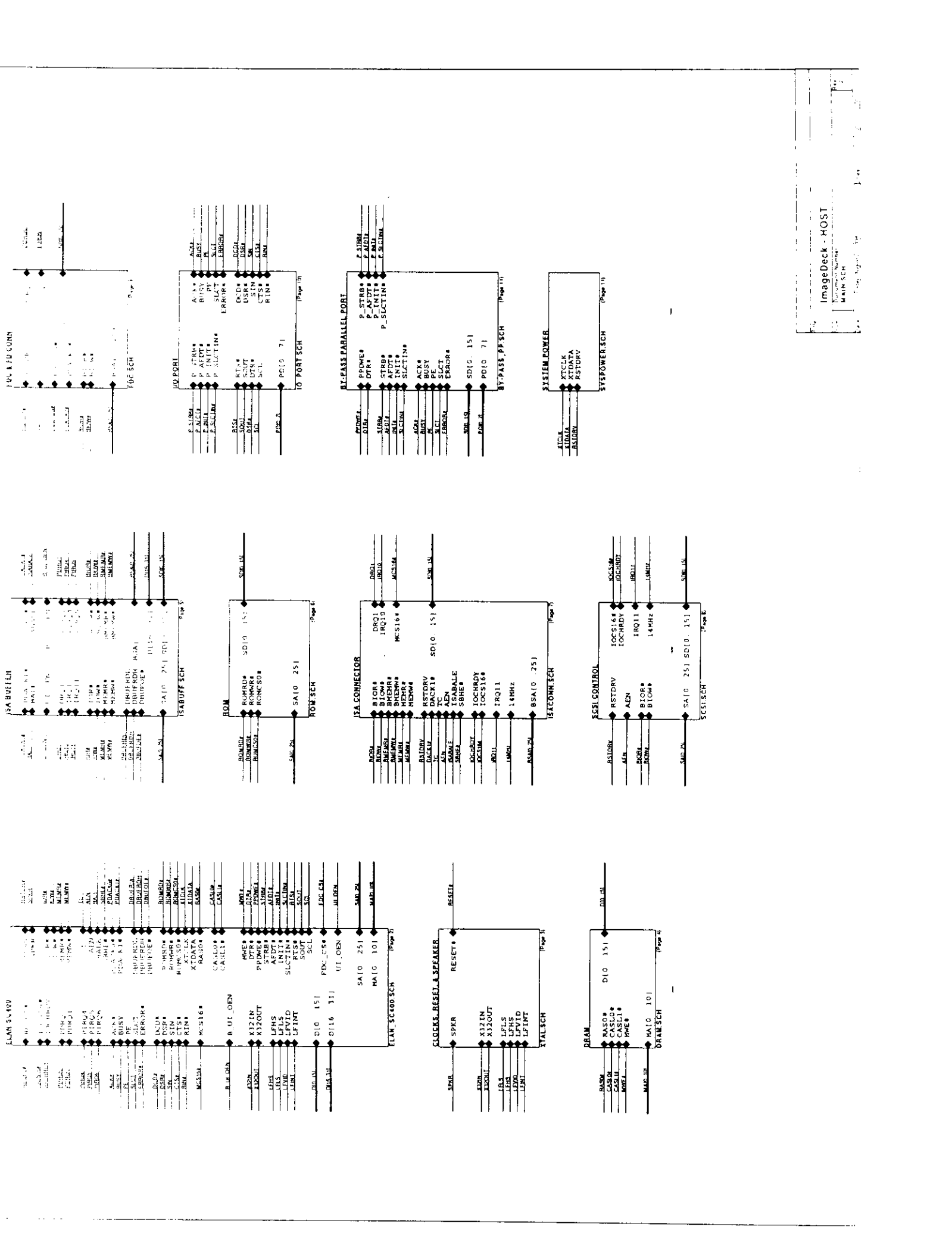
ImageDeck - KEYPAD

Document Number: KEYPAD SCH

Rev: A

Final August 21, 1996

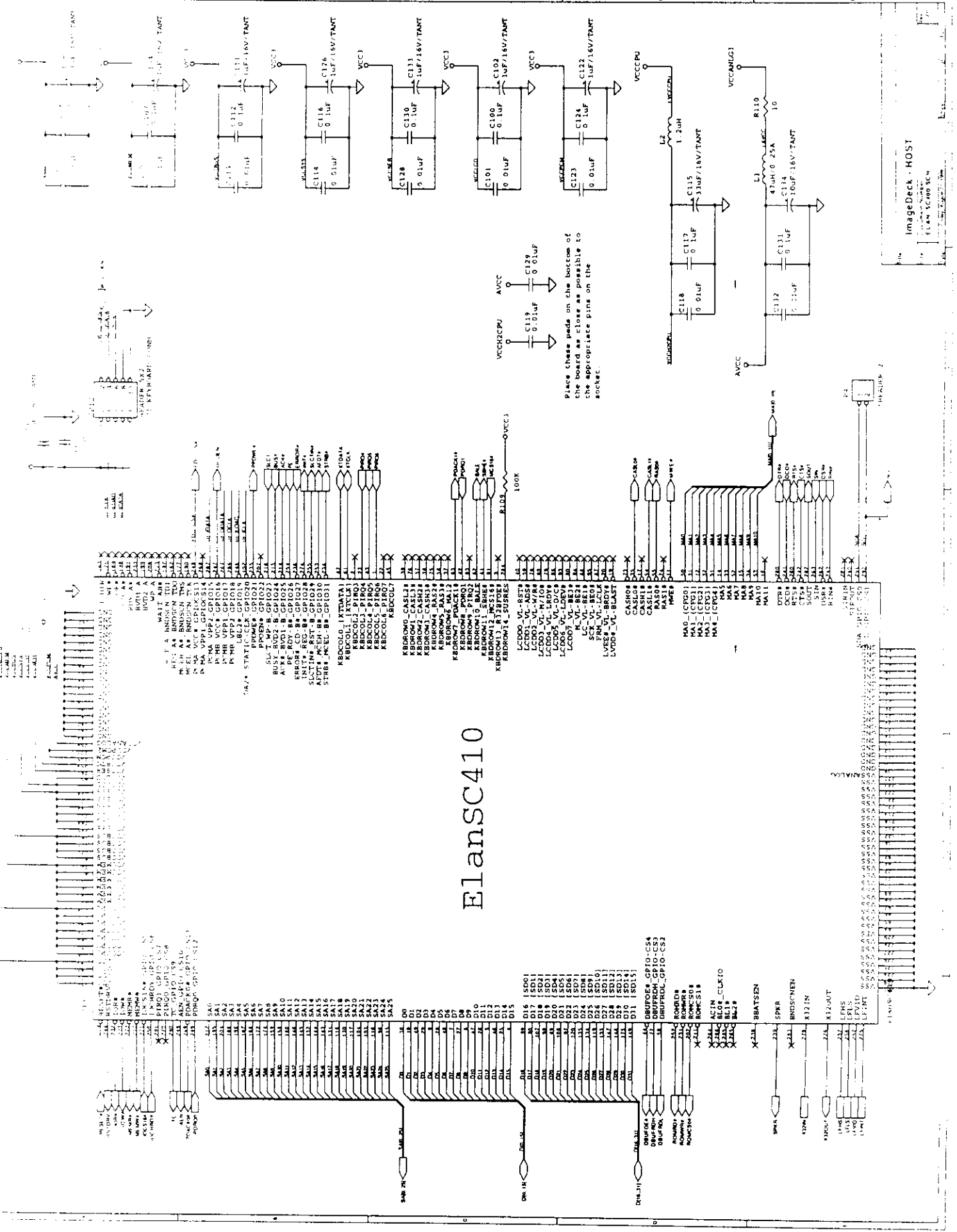
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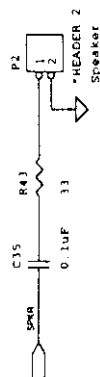
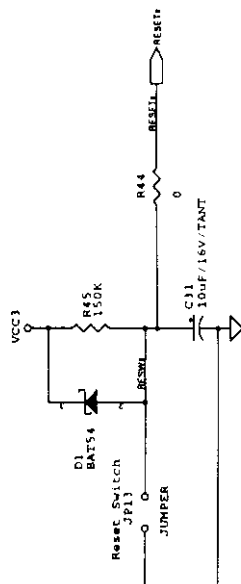
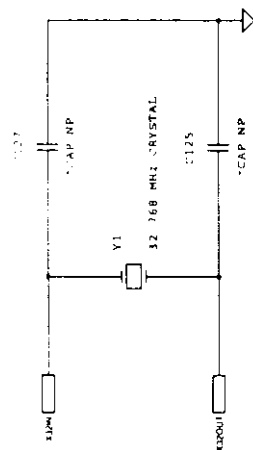
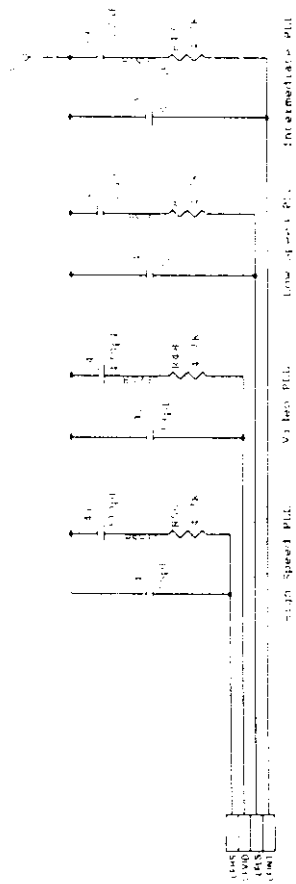


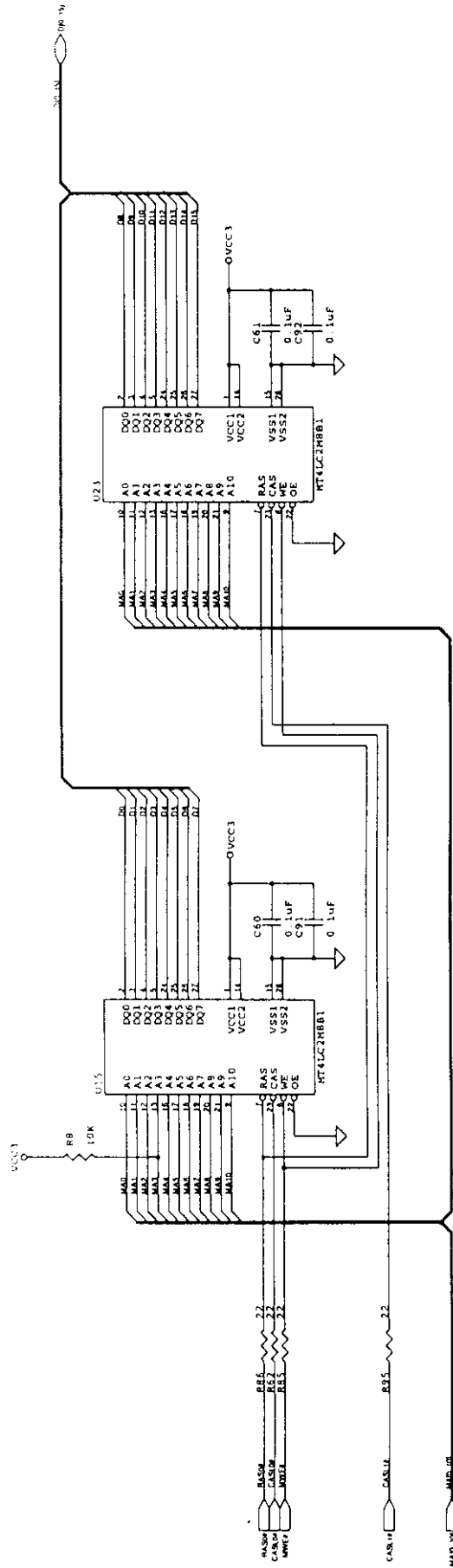
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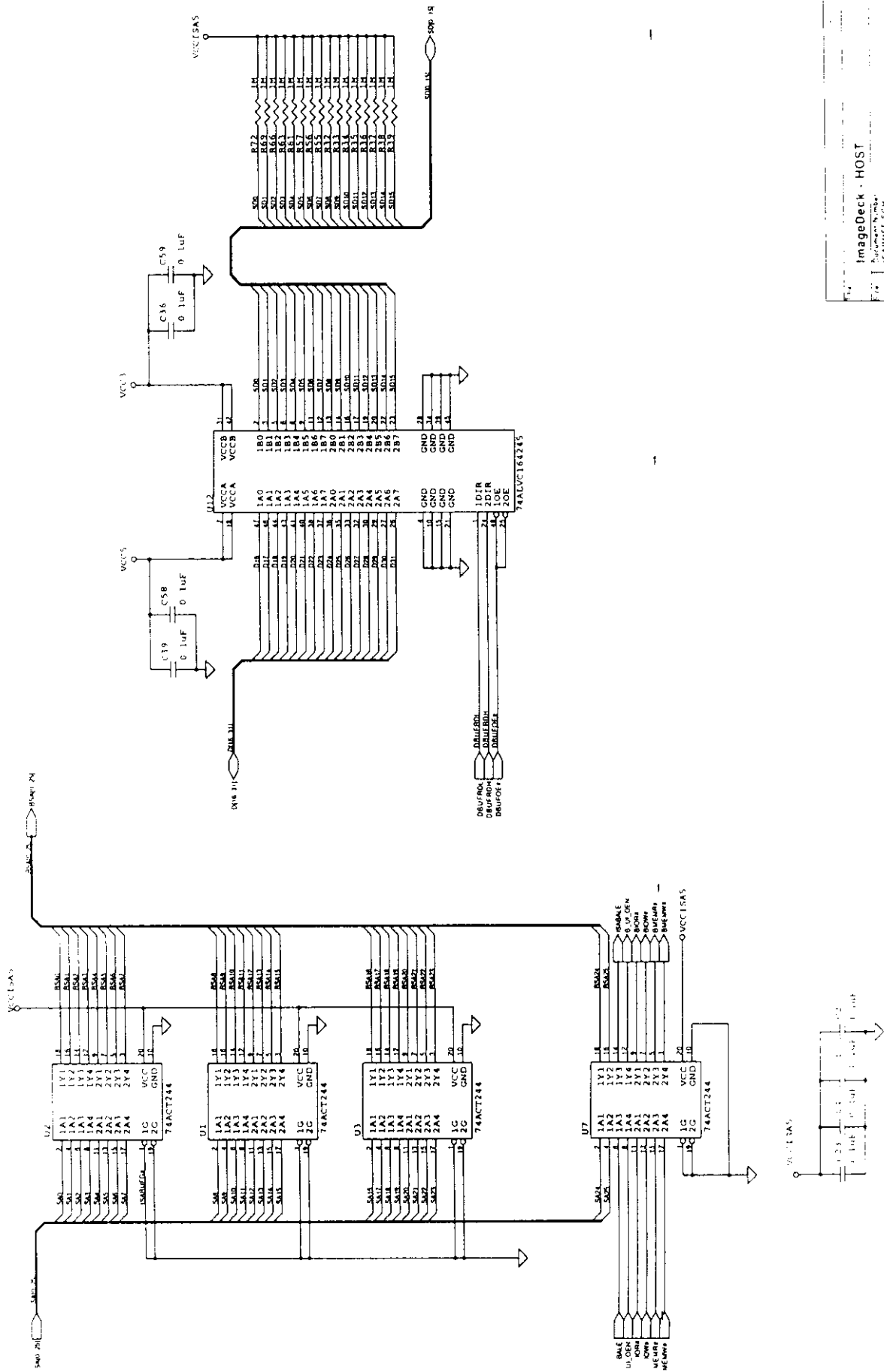
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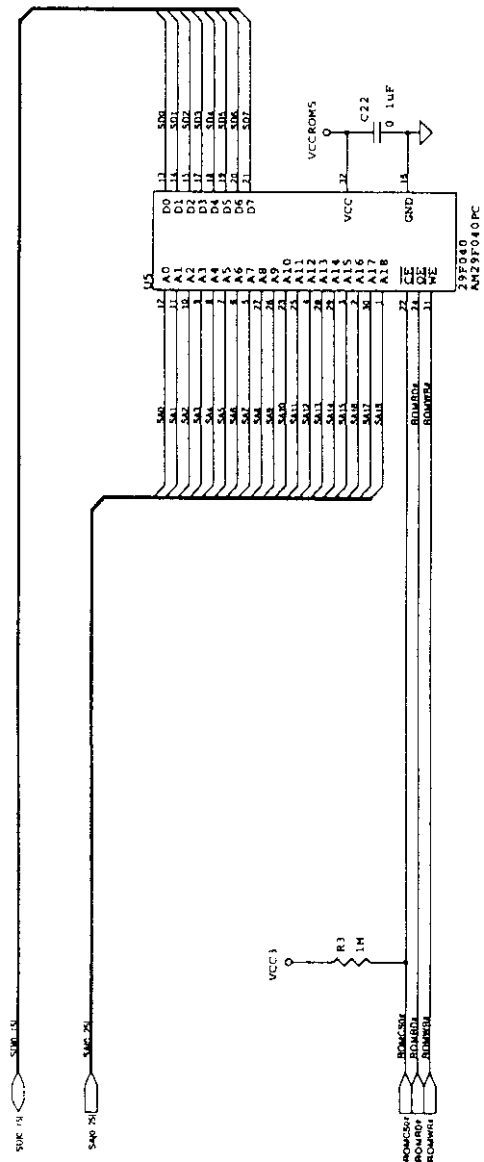
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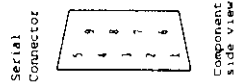




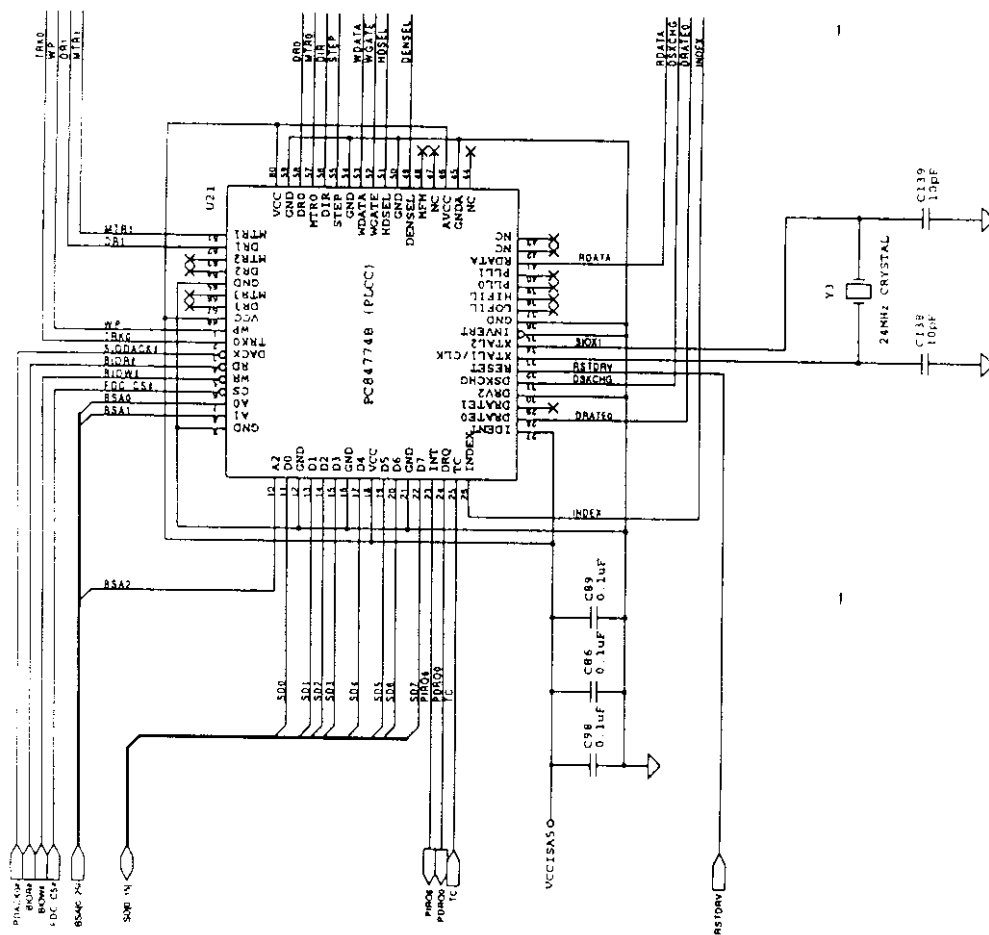








ImageDeck - HOST



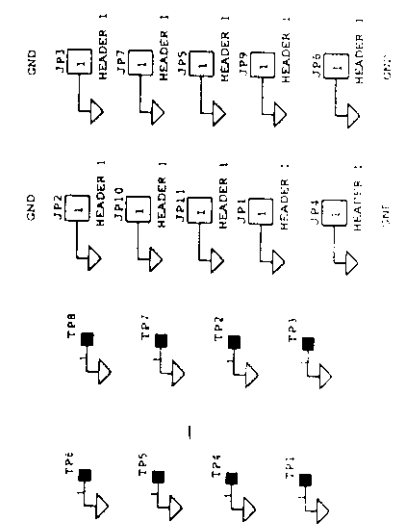
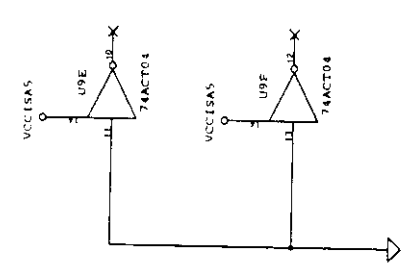
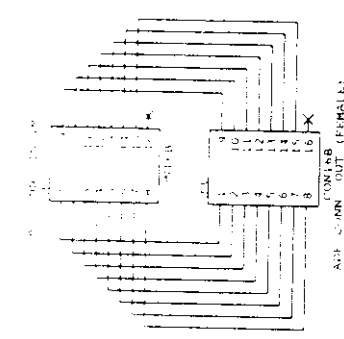
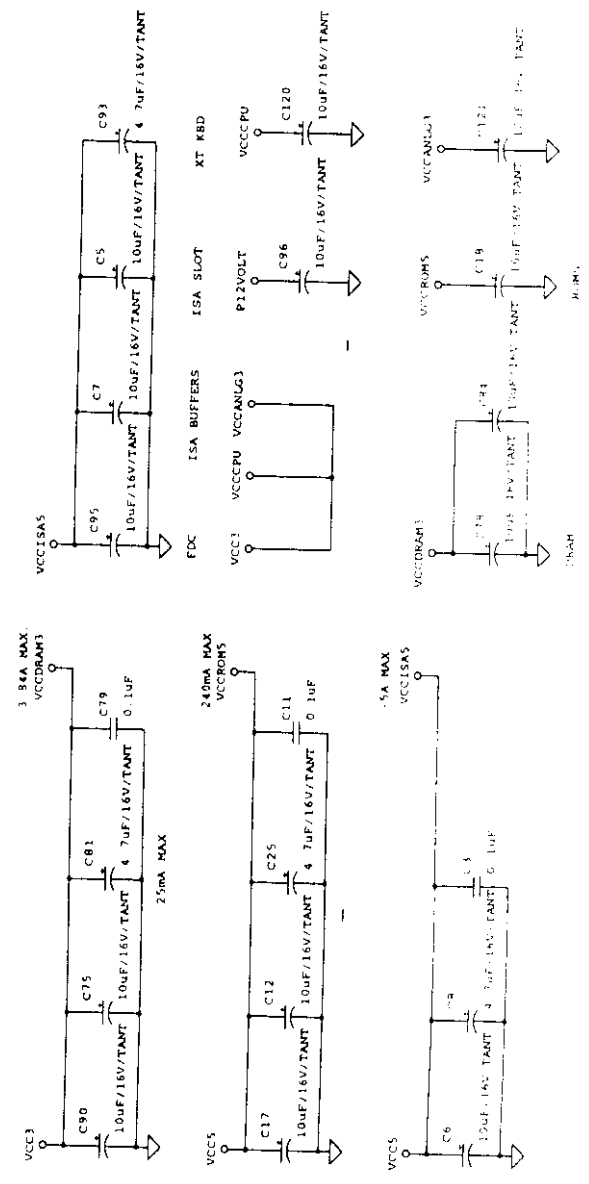
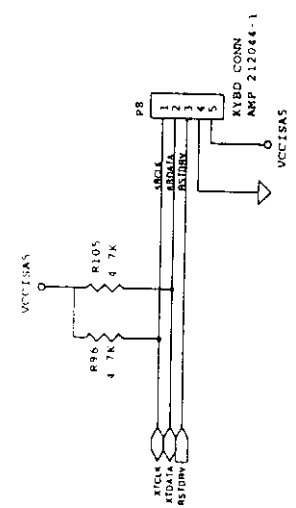
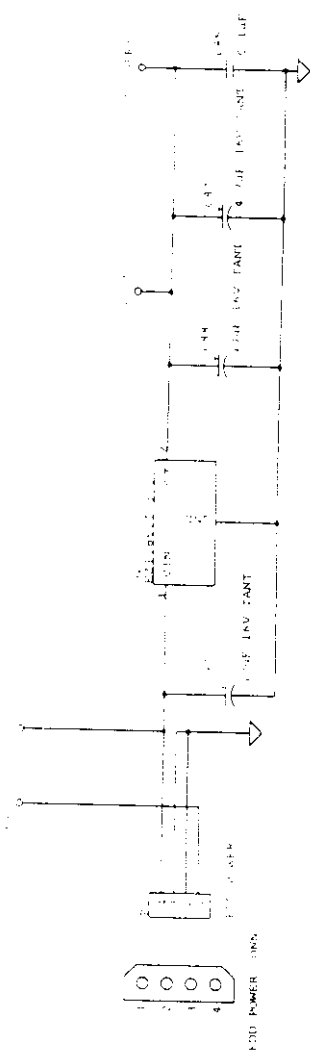
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magedeck - HOST

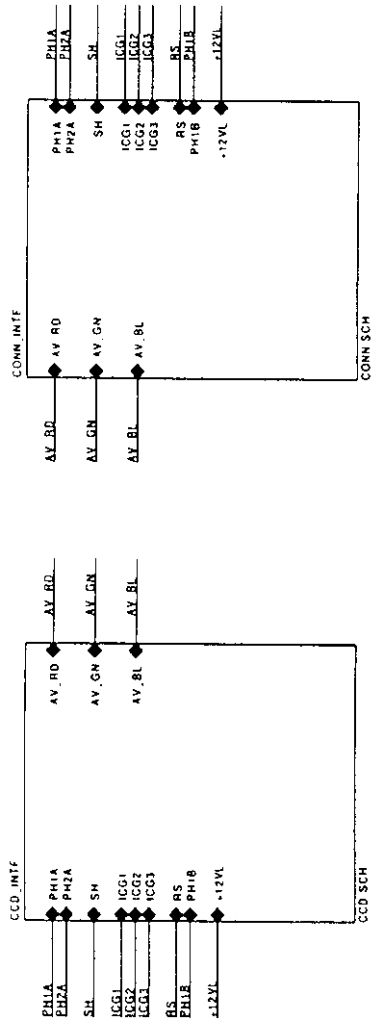
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1005 300

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ImageDeck - HOST
SYSTEM 3.0M



MICROTEK LAB, INC

Title

ImageDeck - 10K CCD

Size

Document Number
10KCCD MAIN SCH

Rev

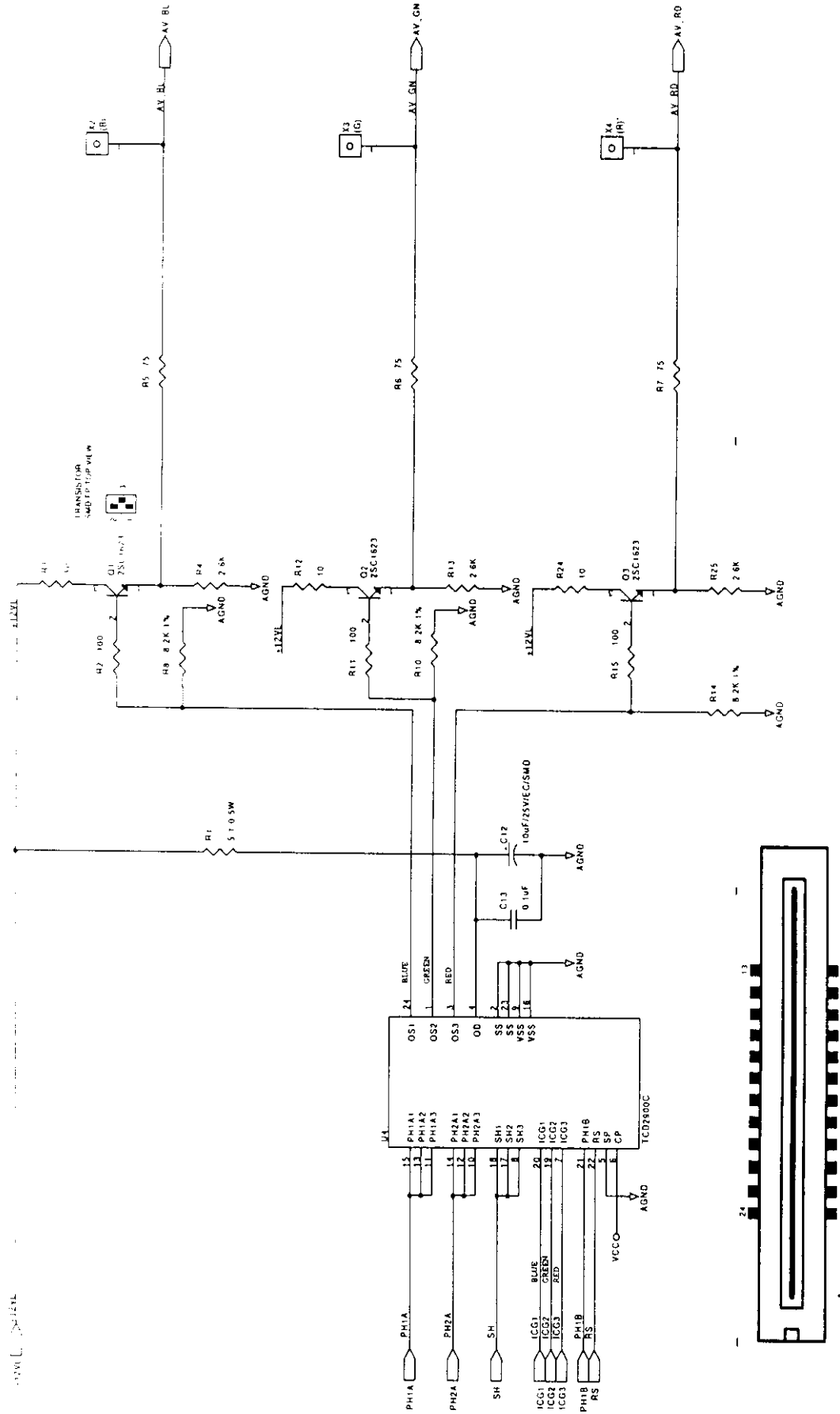
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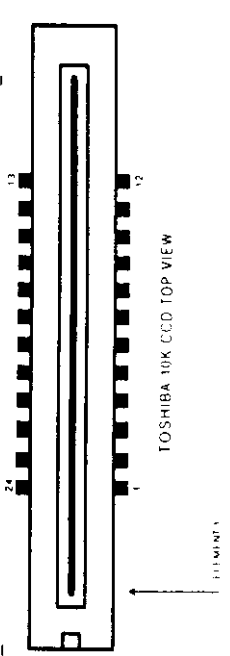
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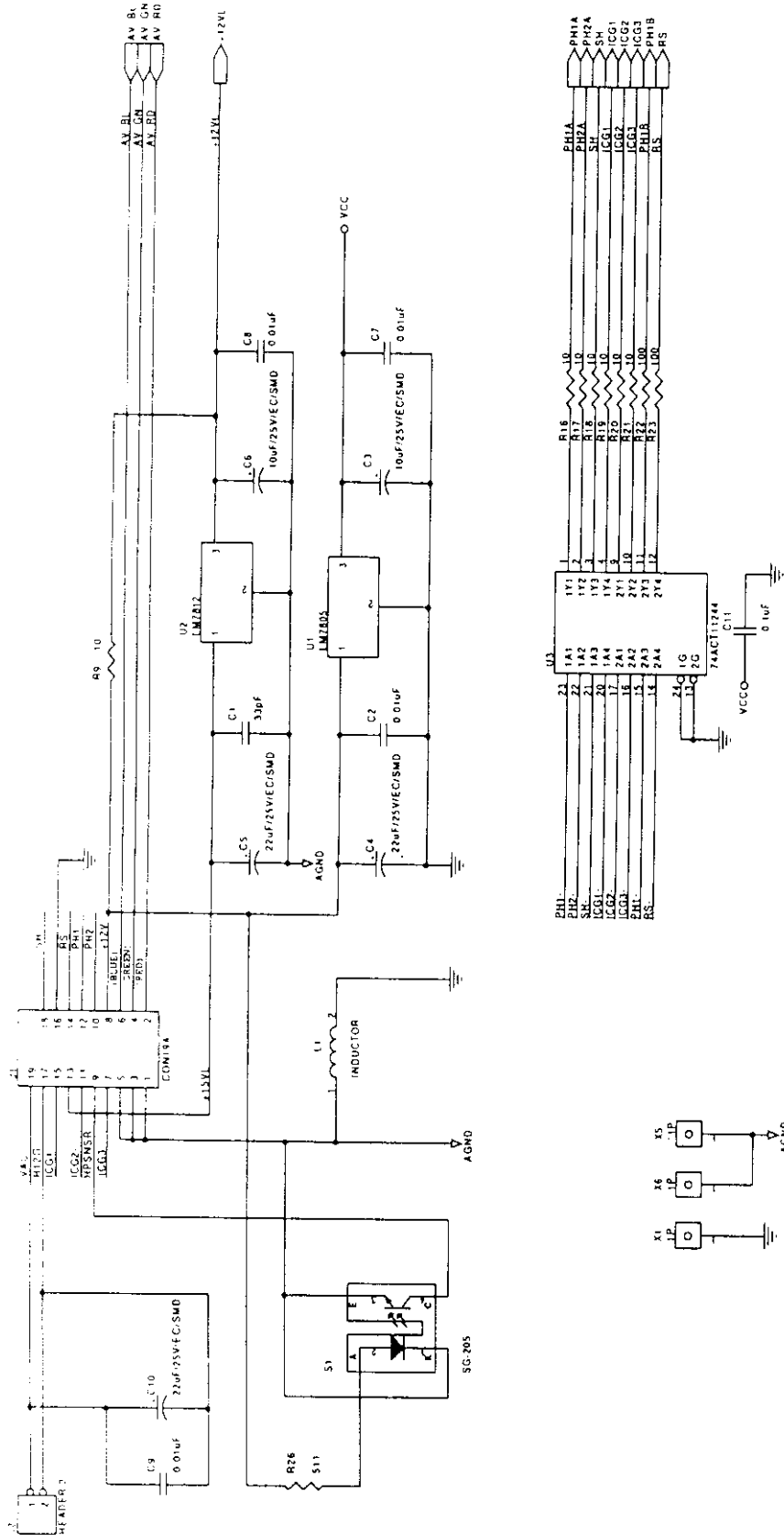
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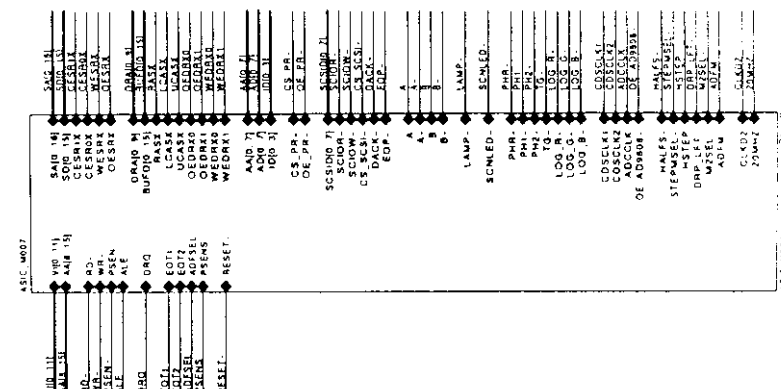
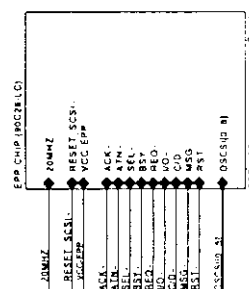
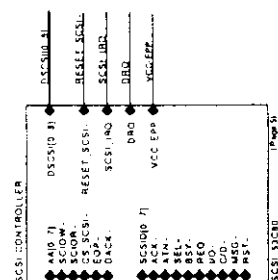
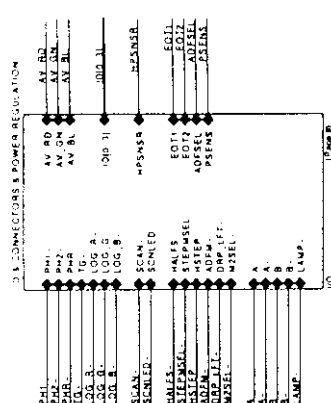
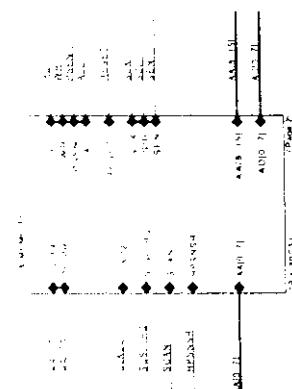
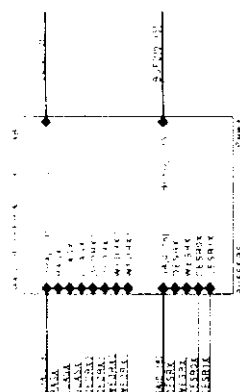
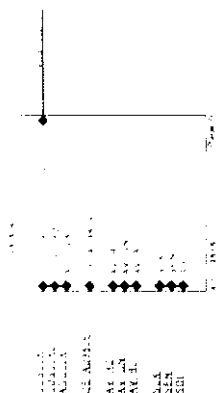


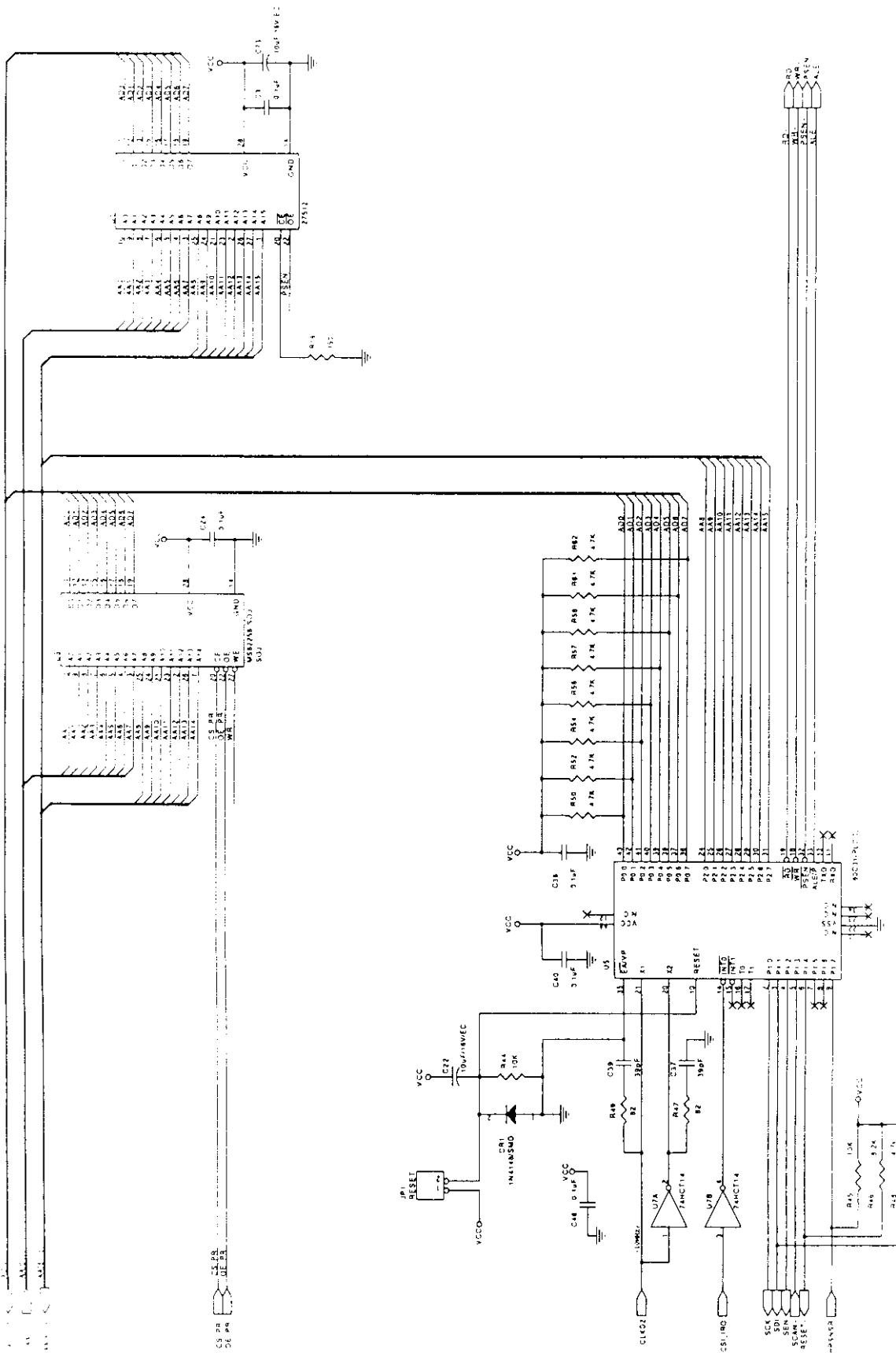


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SHB	8	SHB	10
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ICG2B	10	ICG2B	10
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ICG2D	20	ICG2D	10
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PH2E	22	PH2E	10
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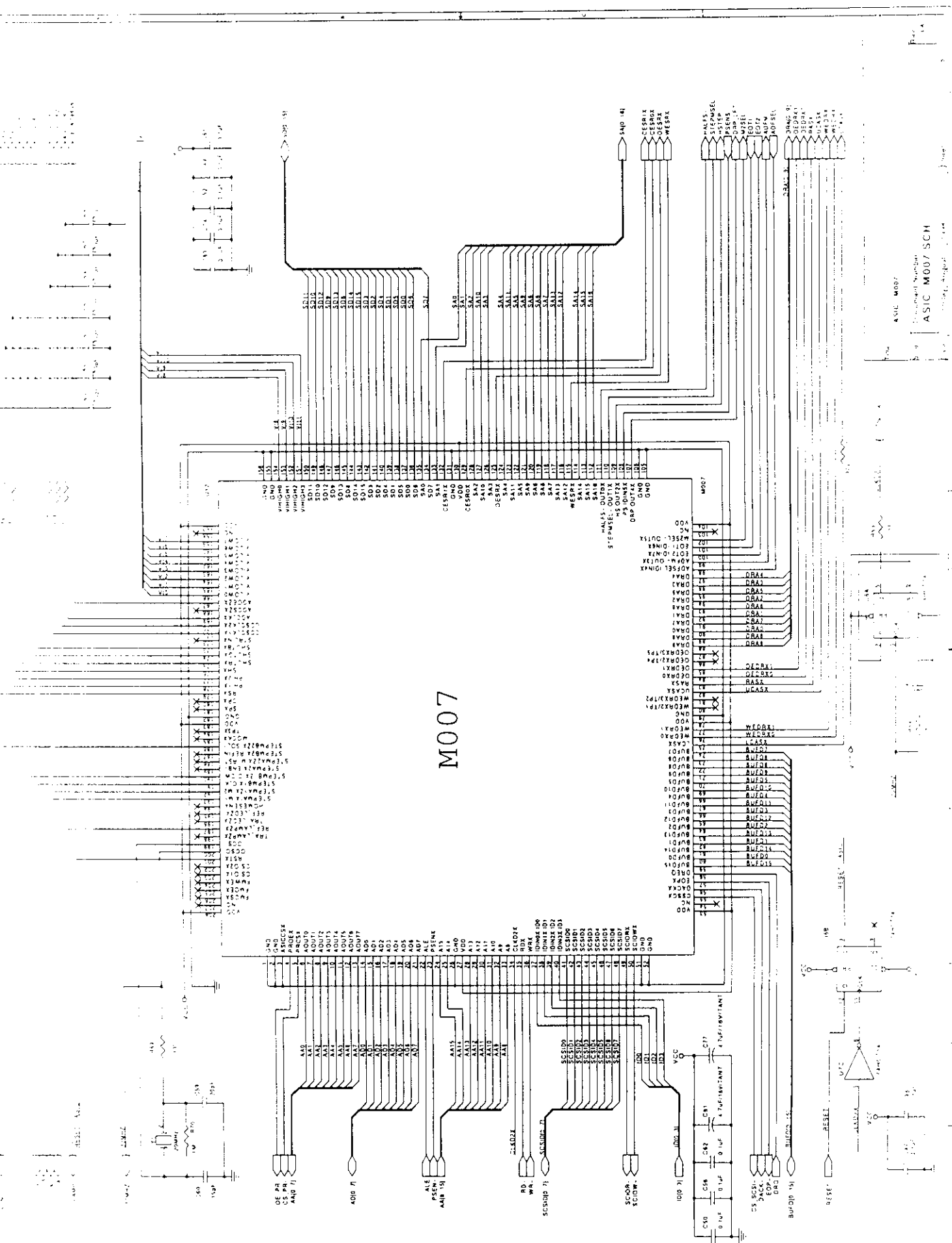
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PRIVATE RAM ROM CLASS MEMORY
CPU 80C11 SCH



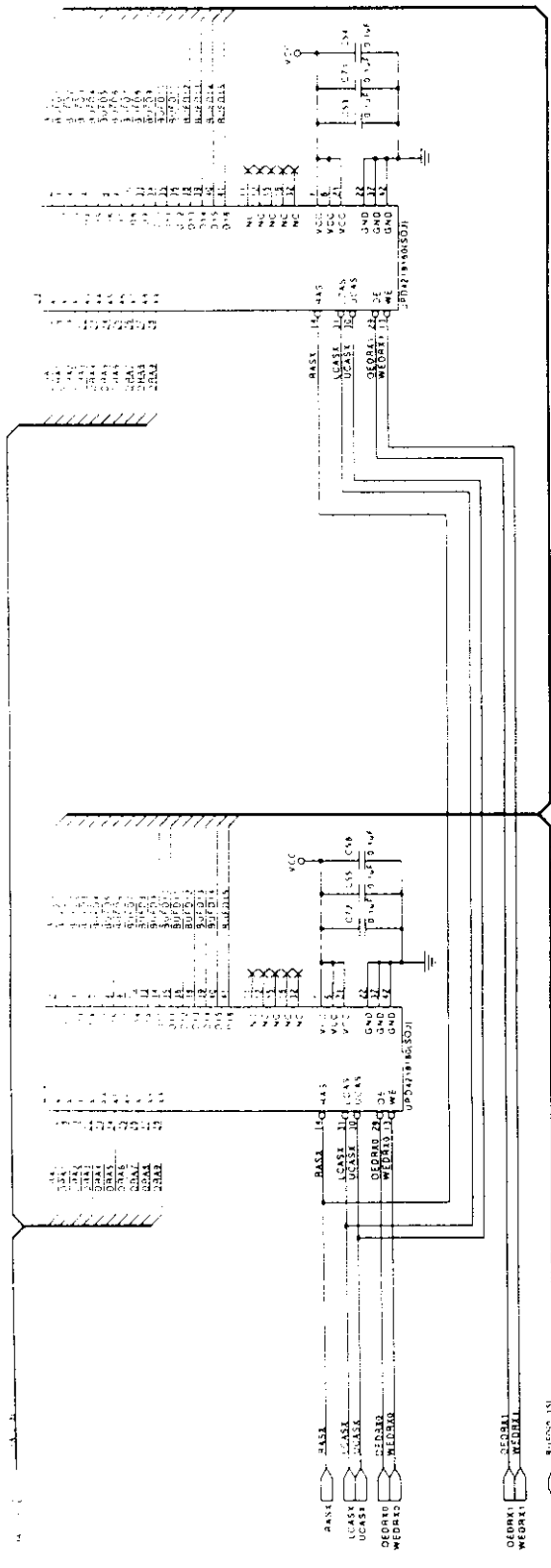
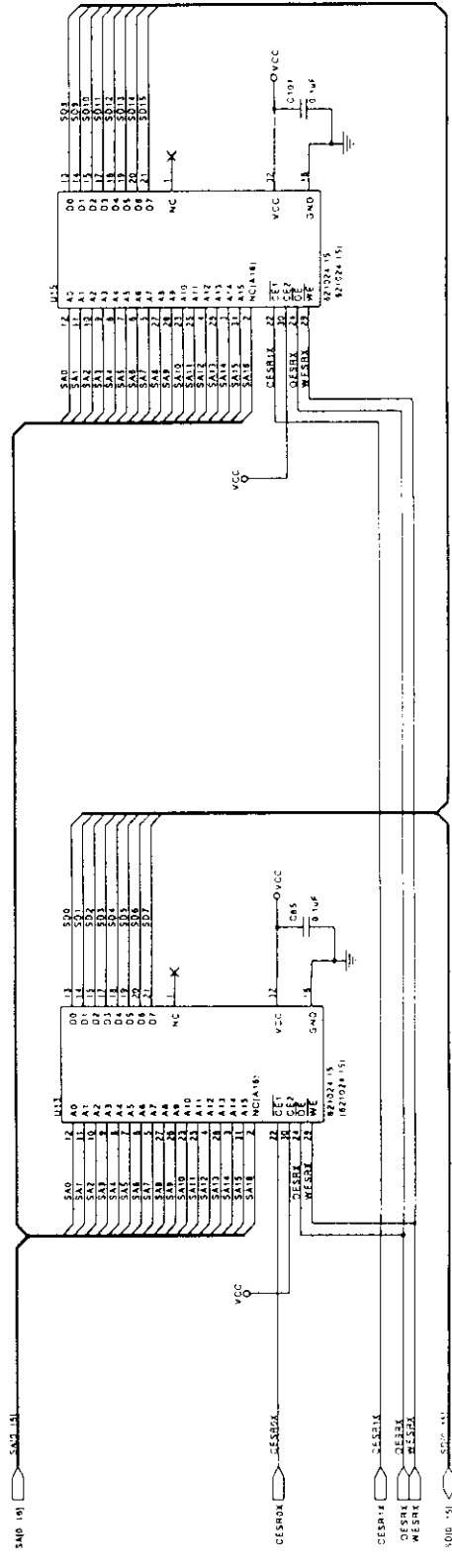


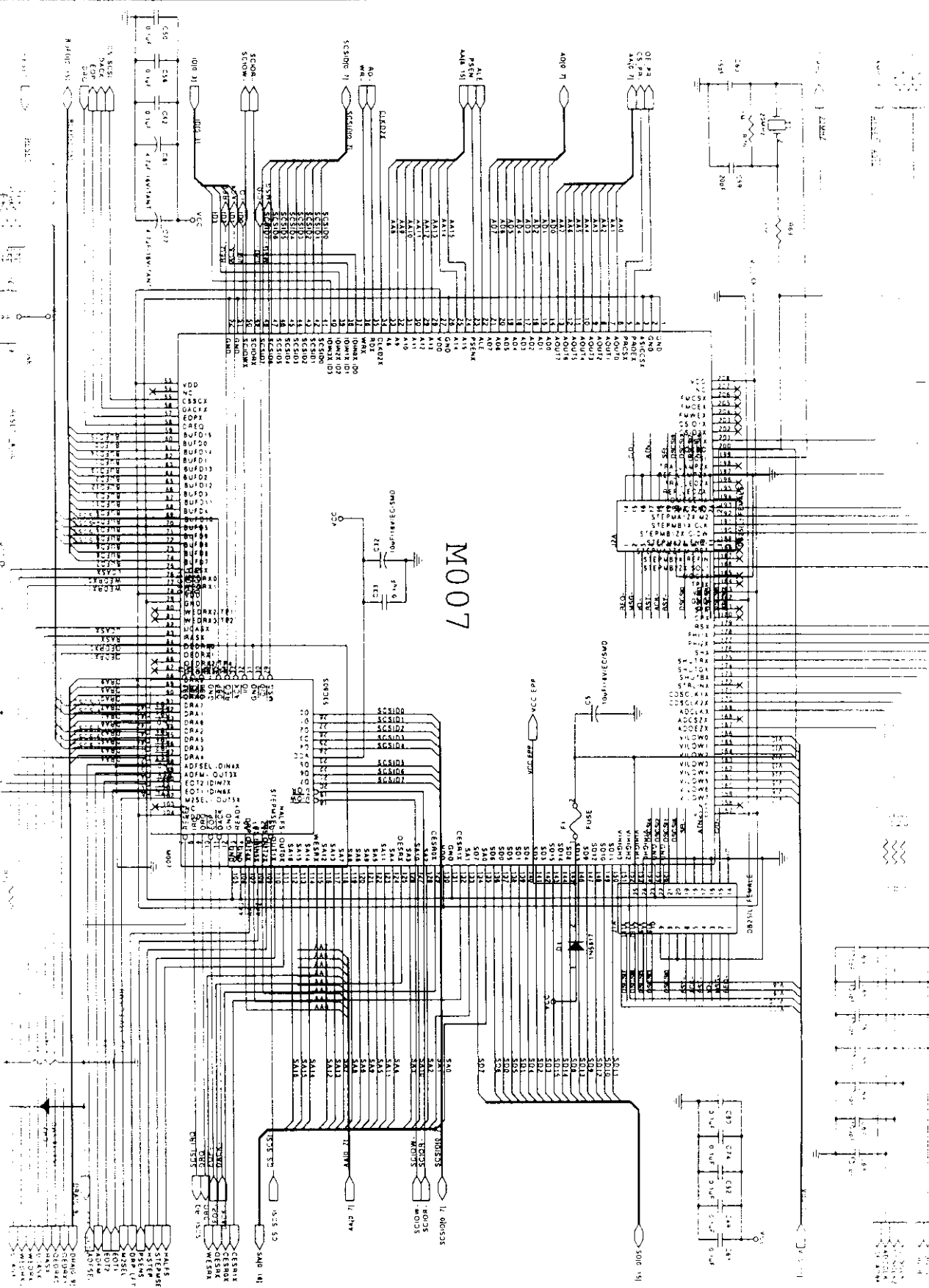
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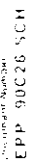
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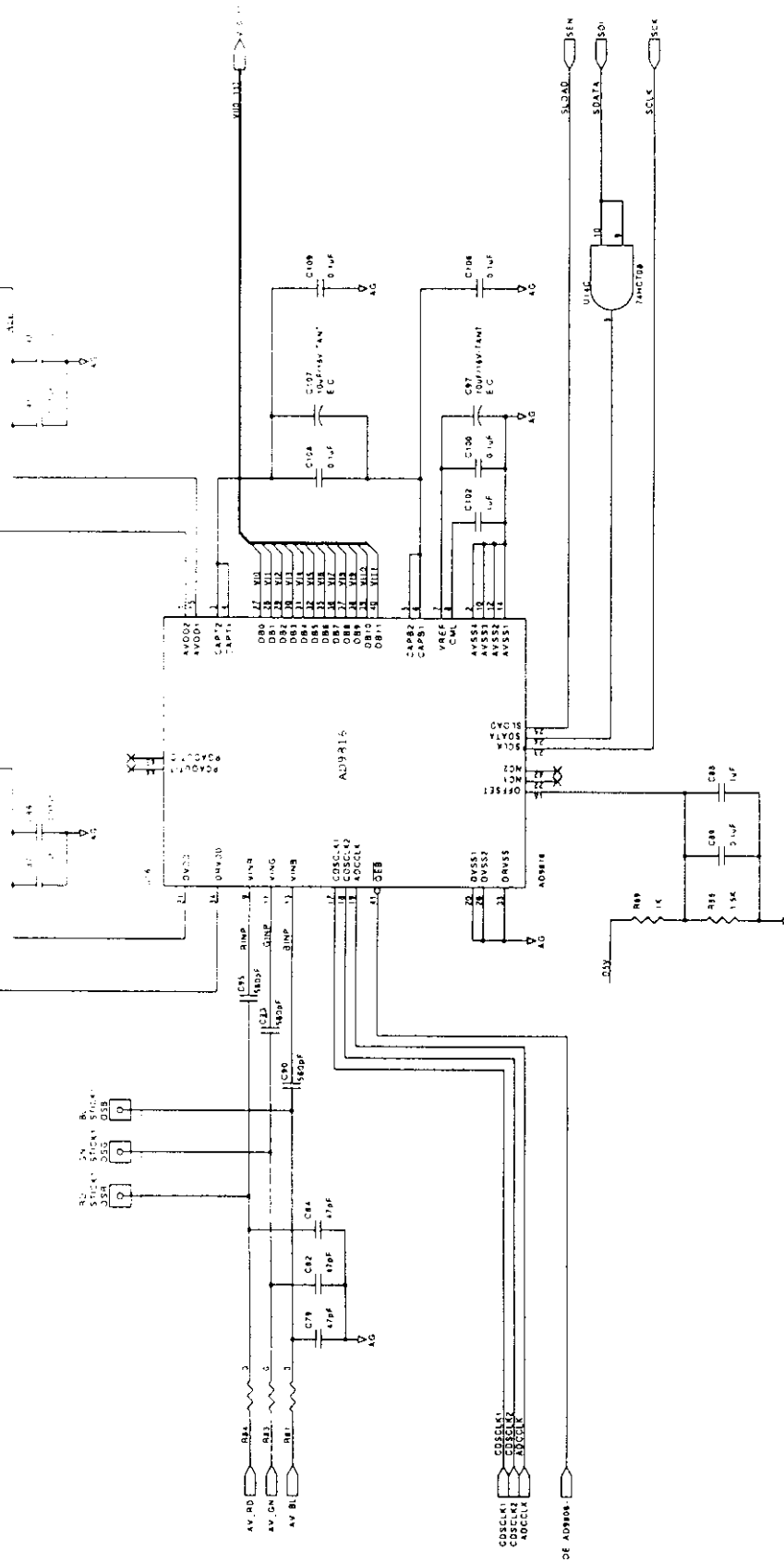
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8-Bit CMOS 8085 Compatible



M007



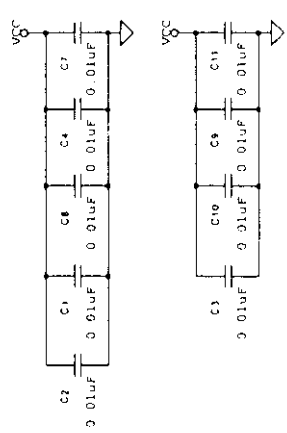
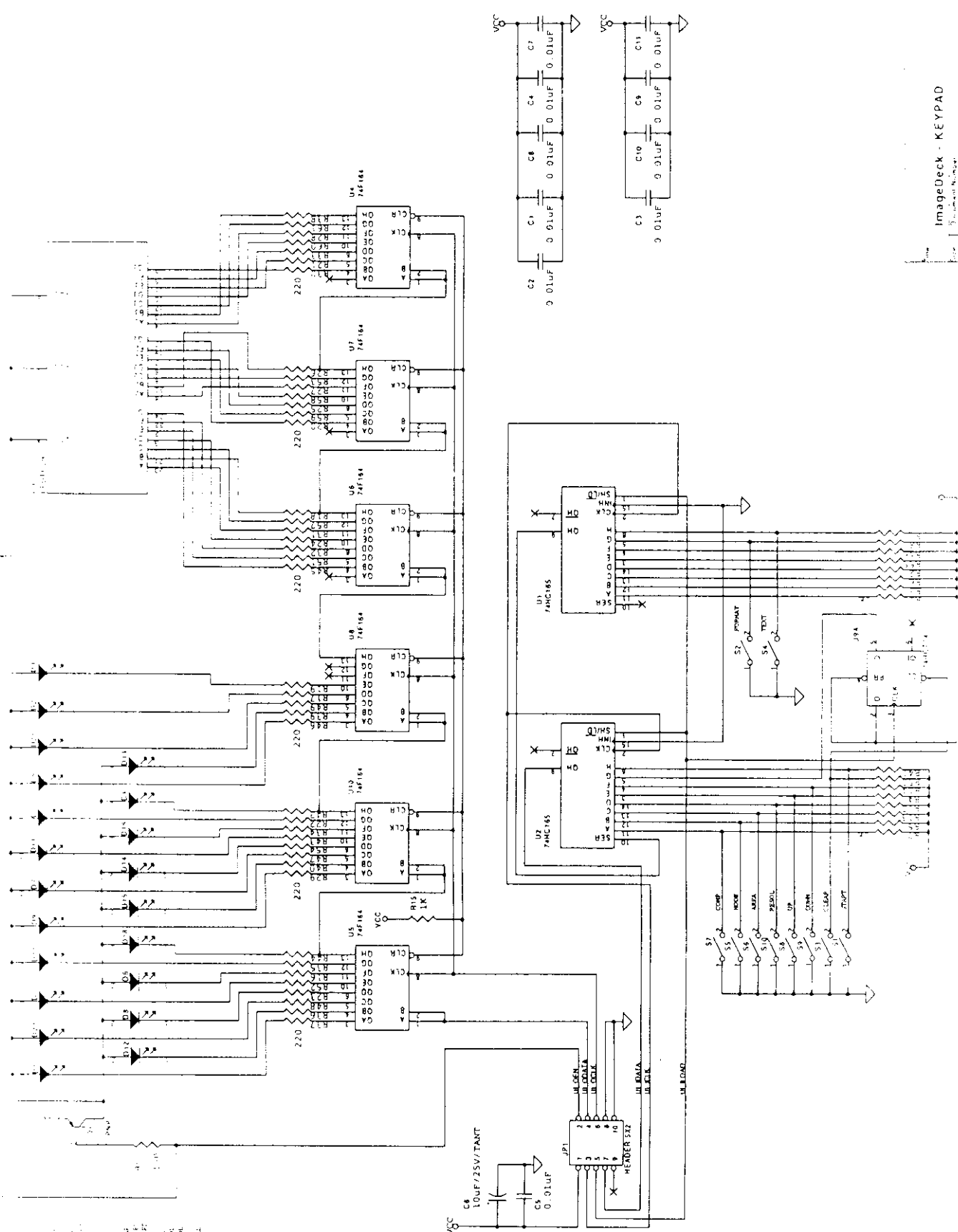


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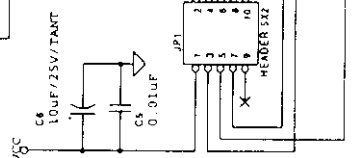
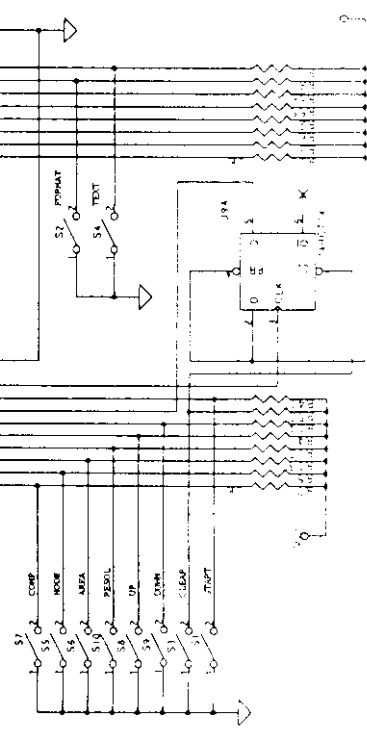


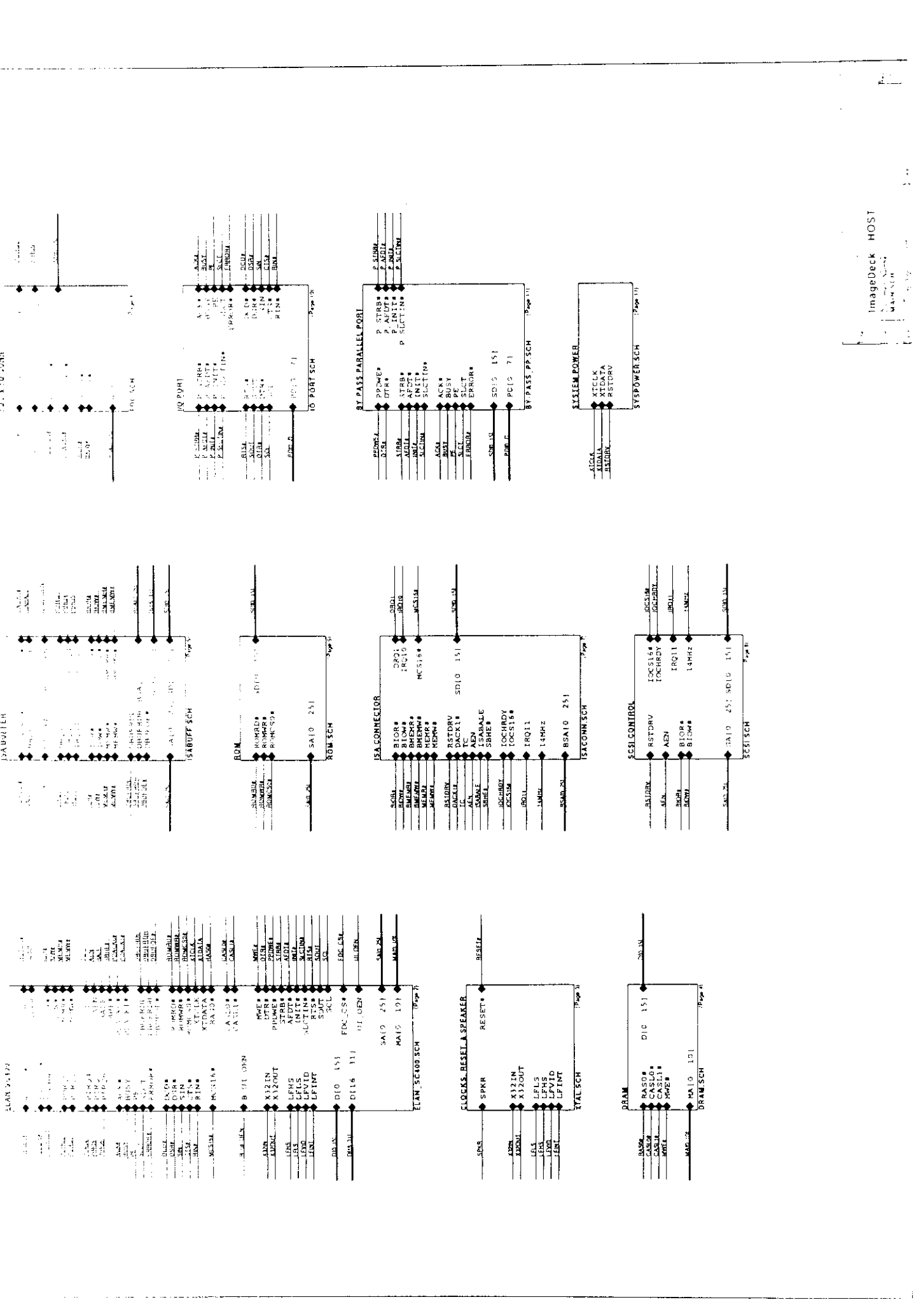


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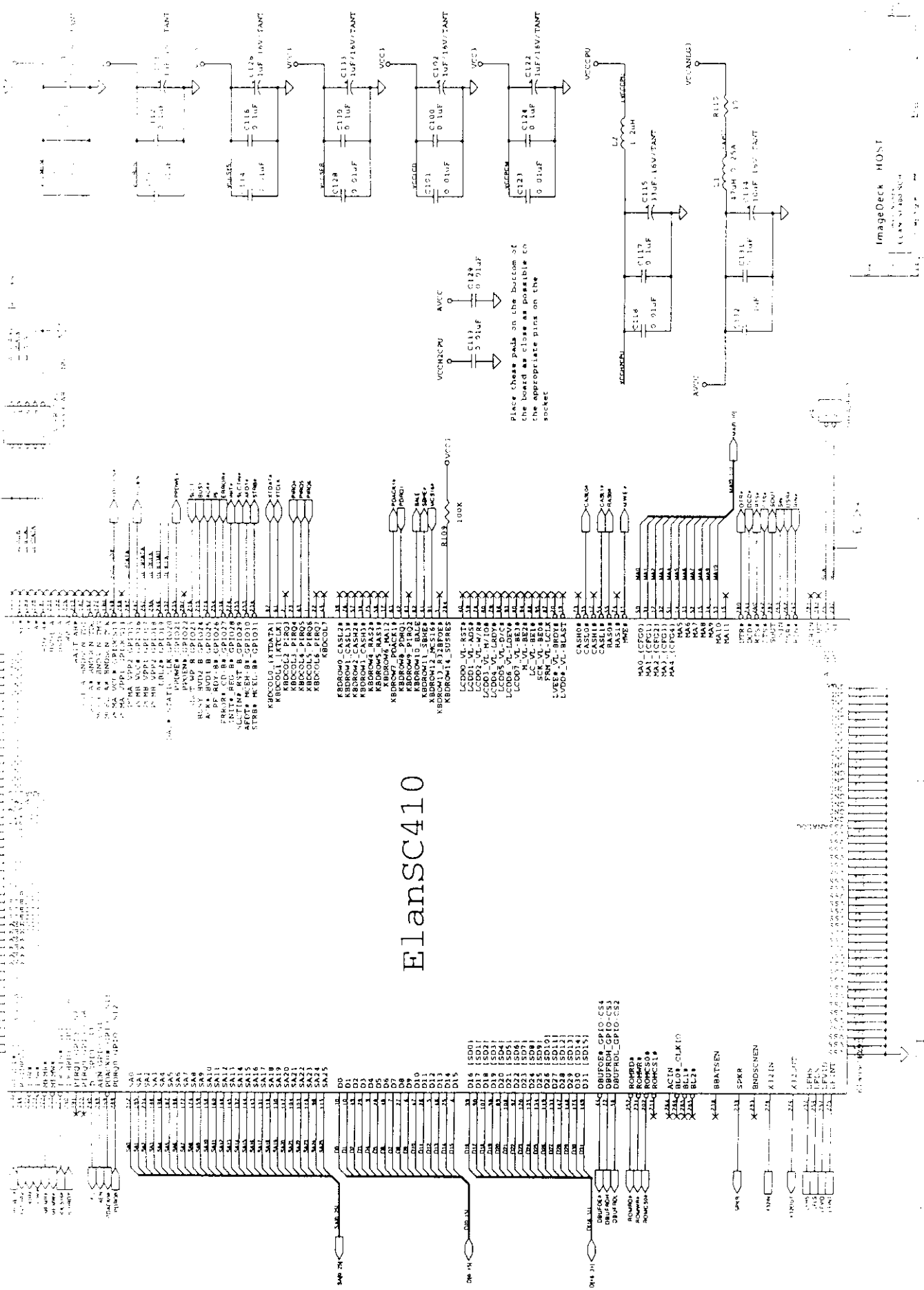
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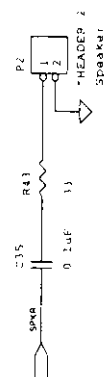
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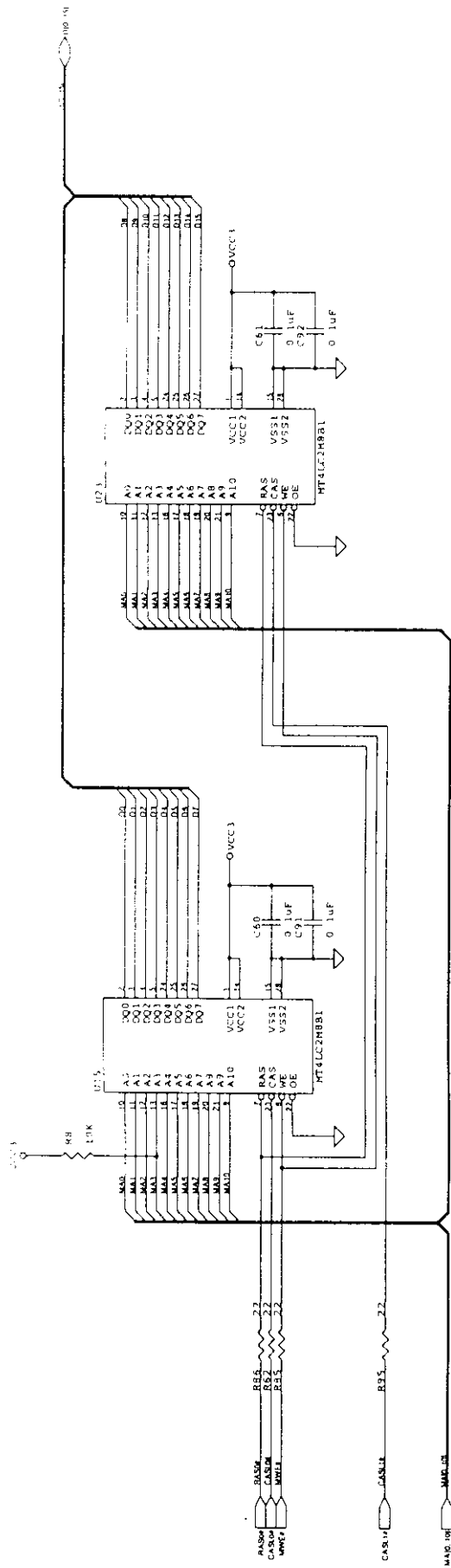
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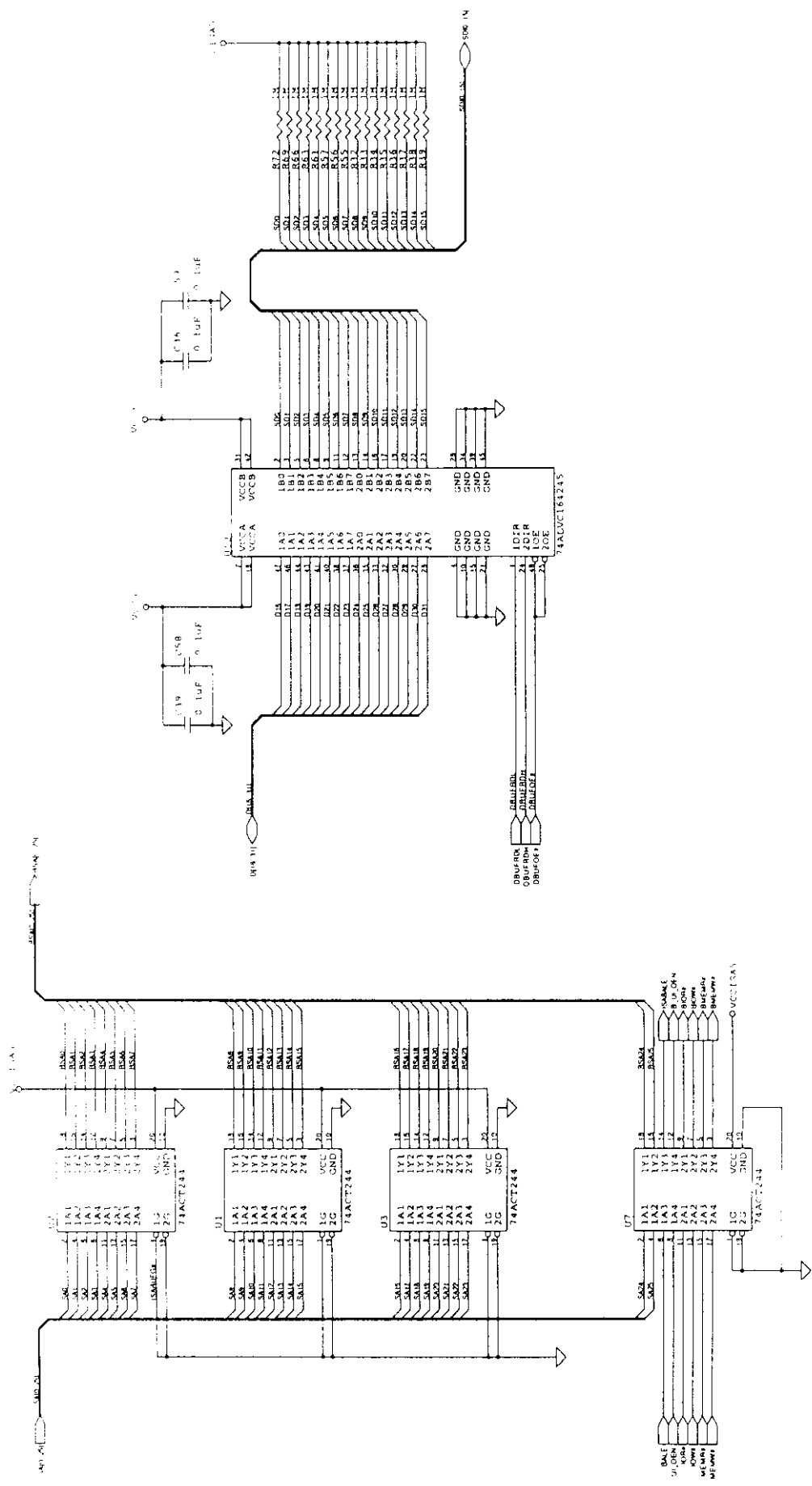


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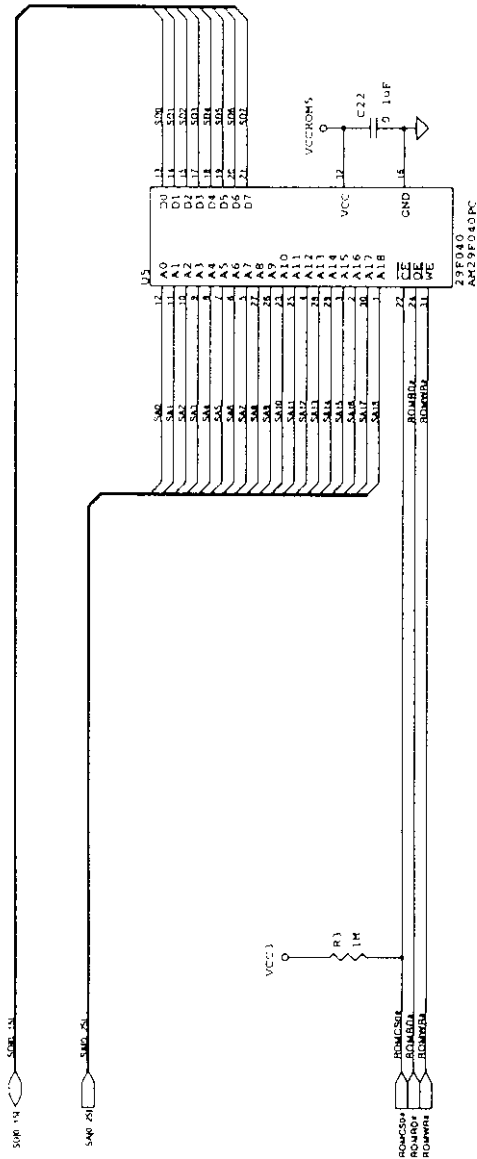
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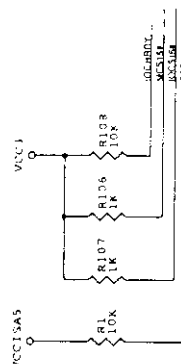
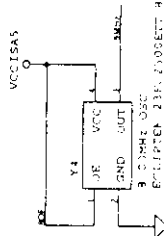
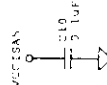




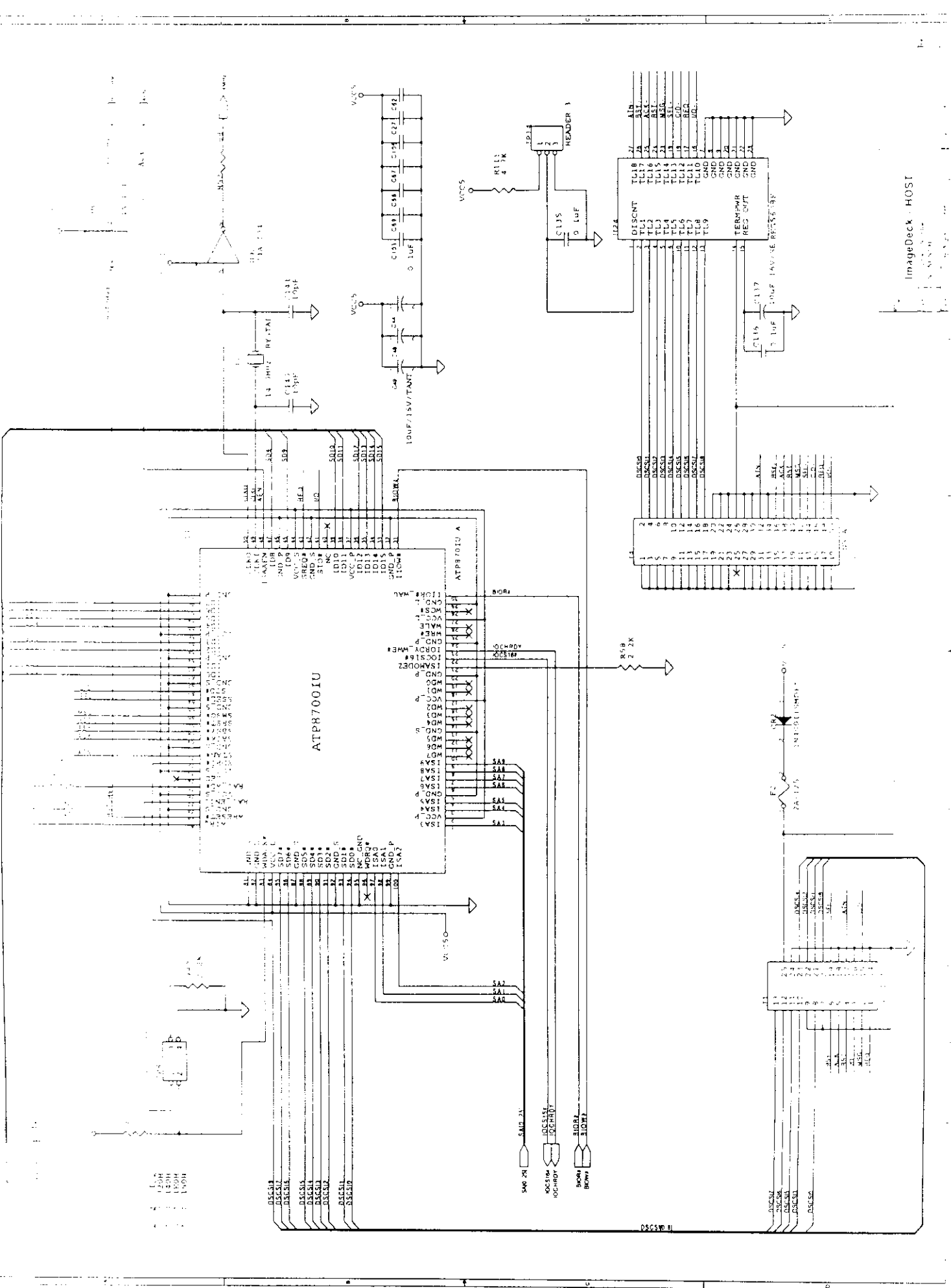
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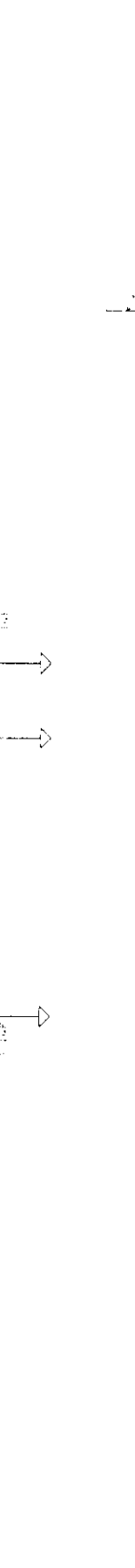
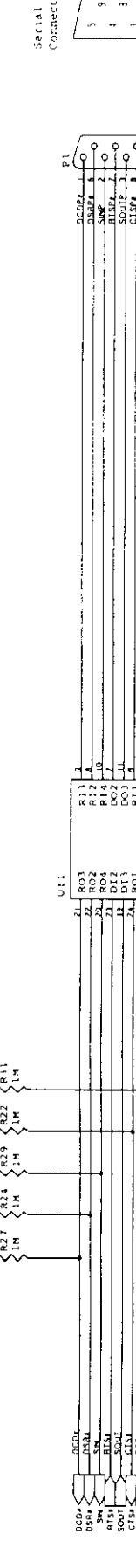
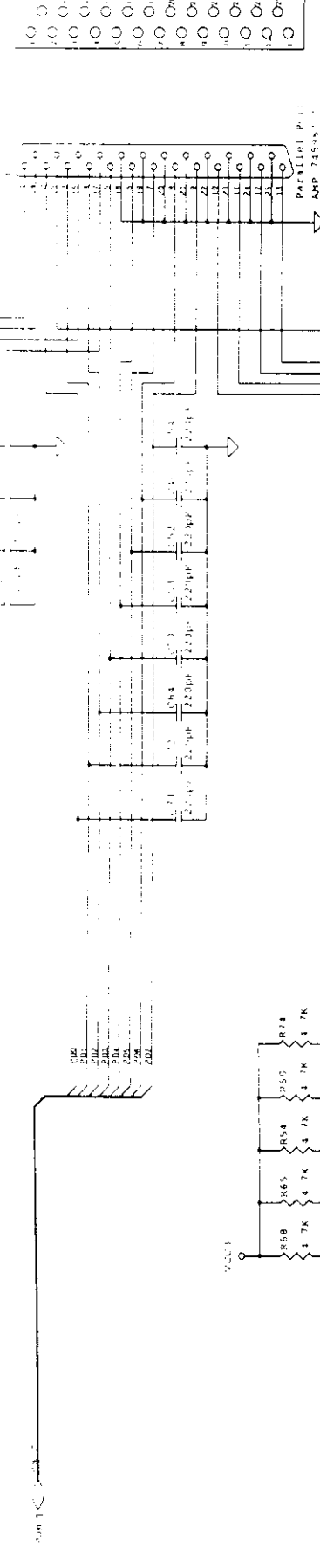


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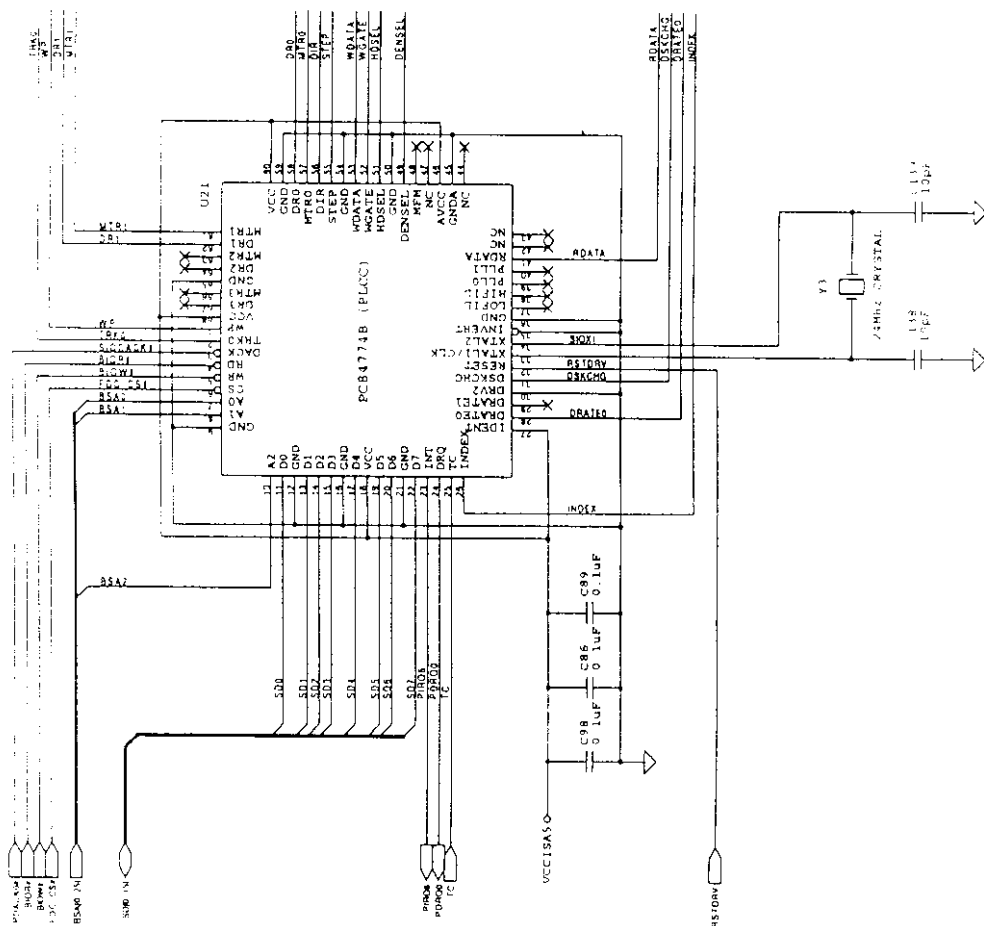




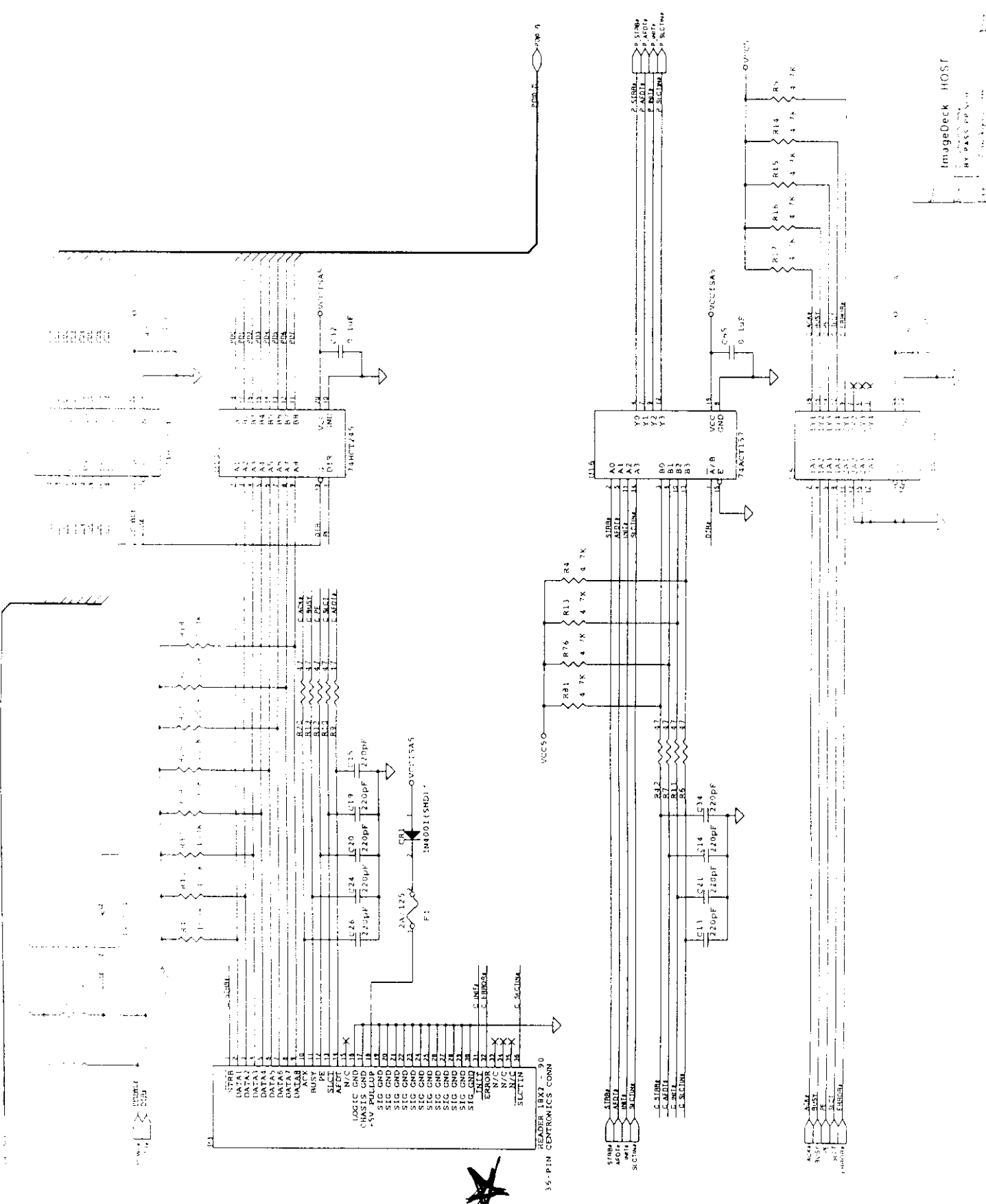
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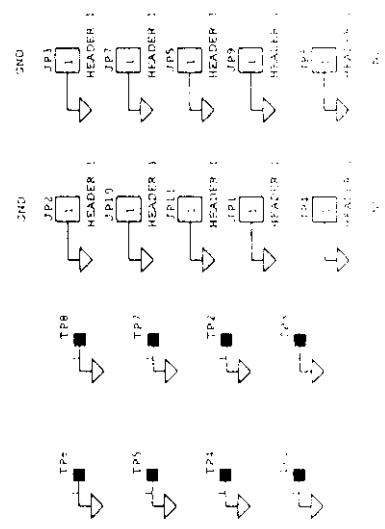
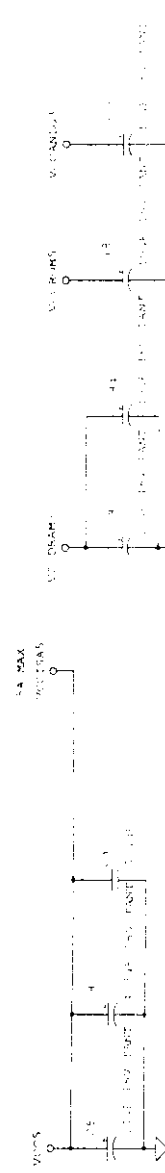
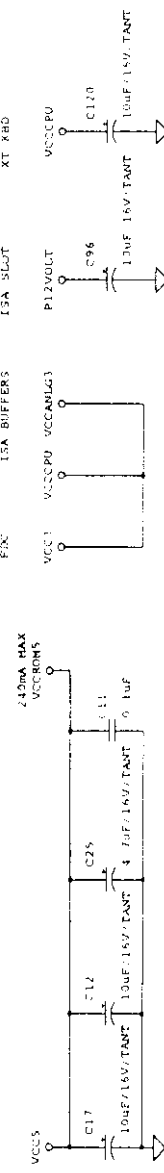
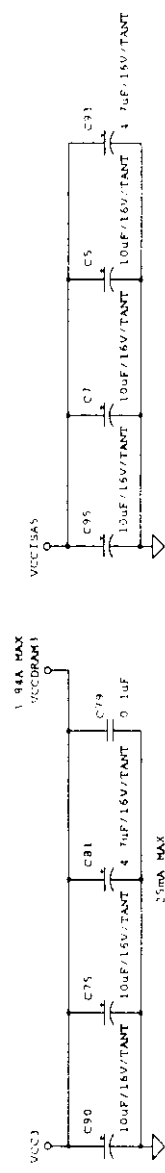
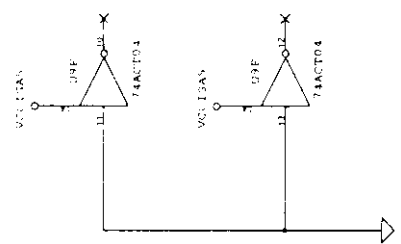
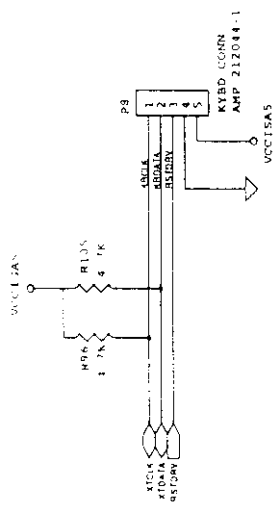
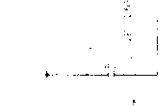
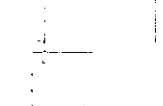
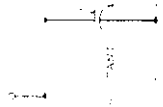
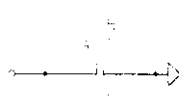
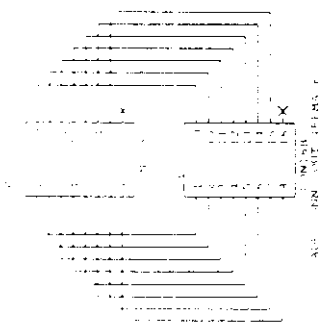
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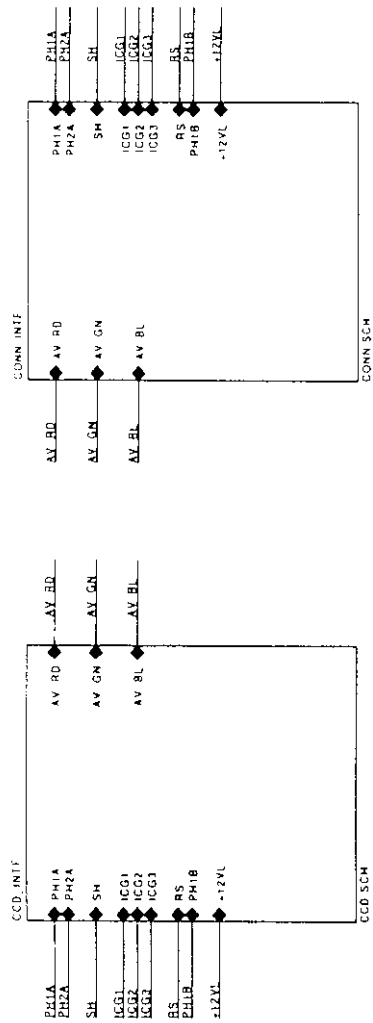
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ImageDeck - HOST



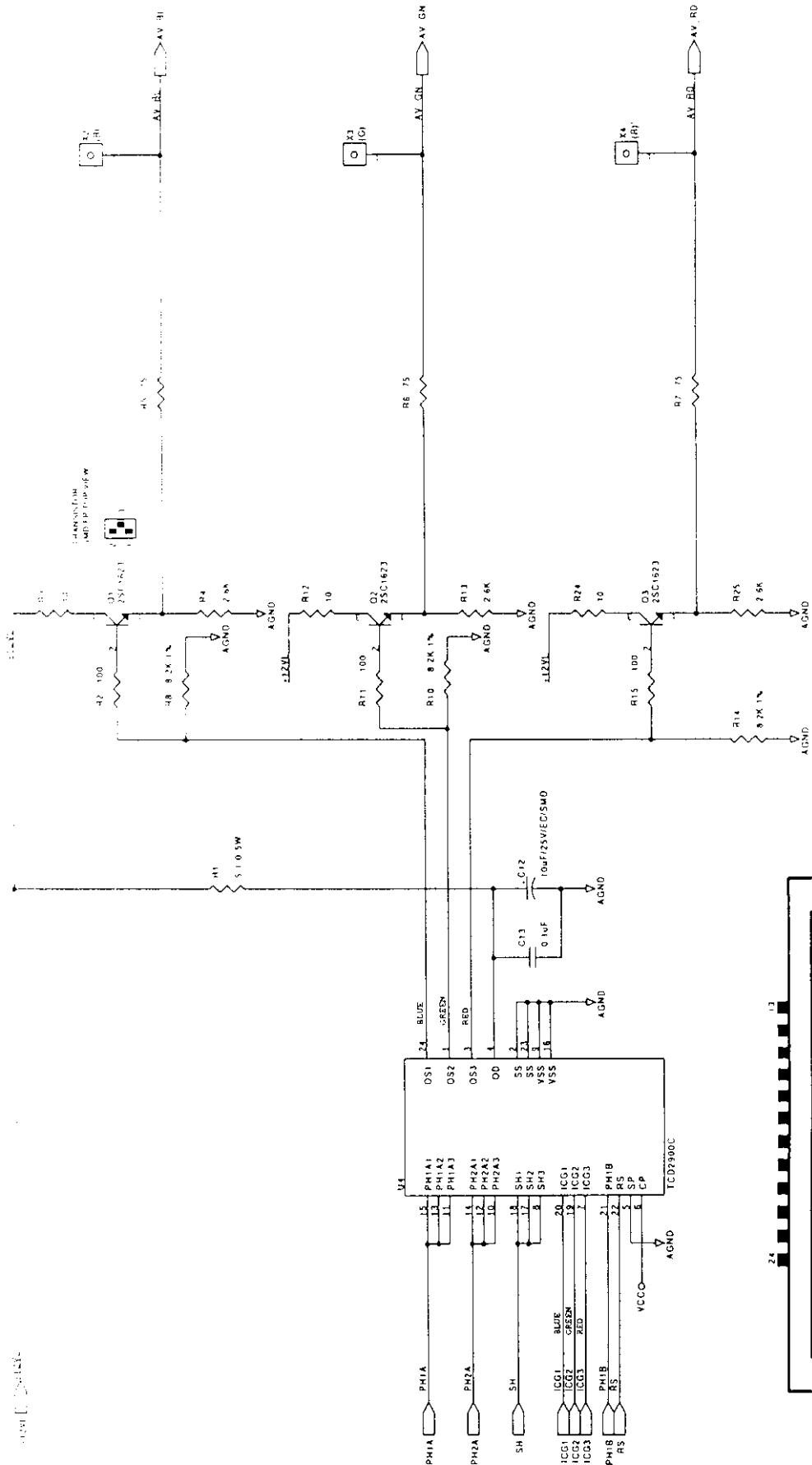
MICROTEK LAB, INC

ImageDeck - 10K CCD

Document Number
V1.000 MAIN 10/04

Rev
C

Sheet 1 of 1



PROJECT ImageDeck 10K CCD

FUNCTION CCD & OUTPUT

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Sheet 1 of 1

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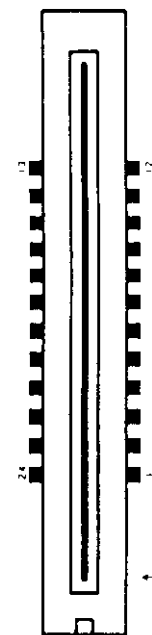
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REVIEWER

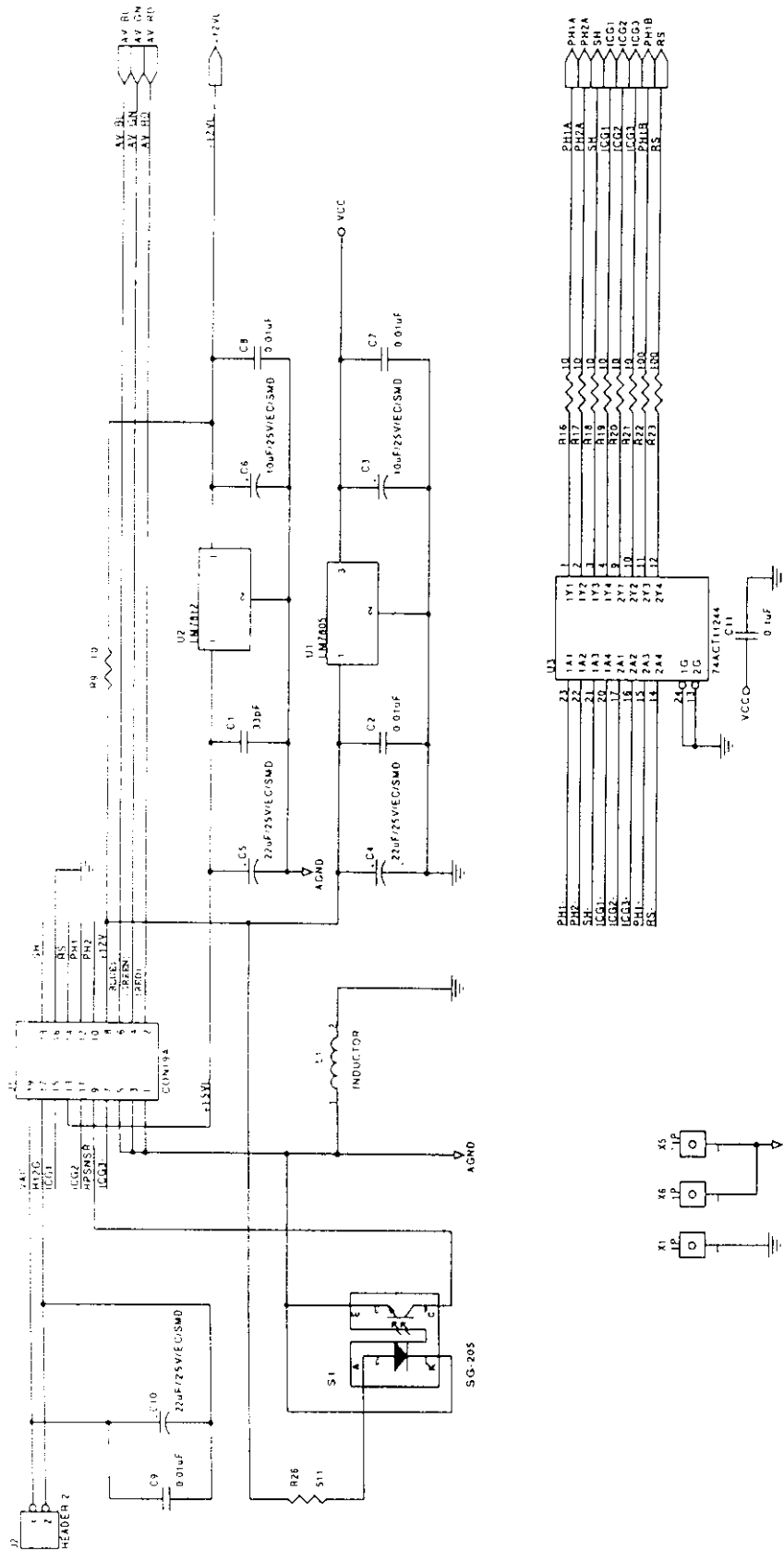
APPROVER

Rev C

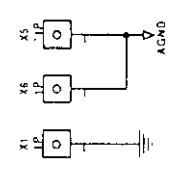


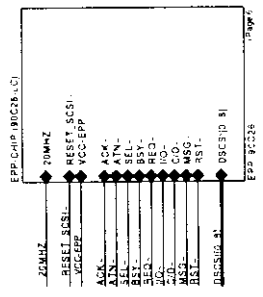
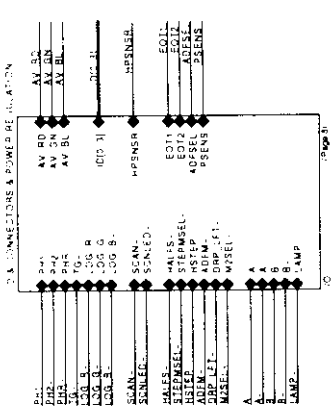
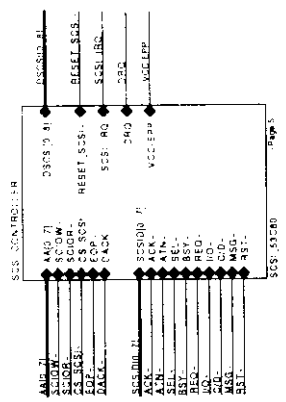
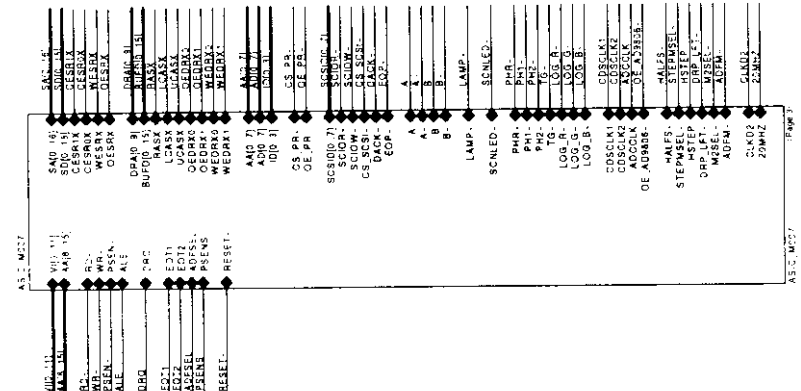
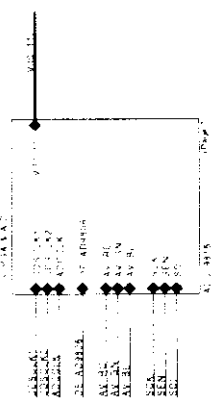
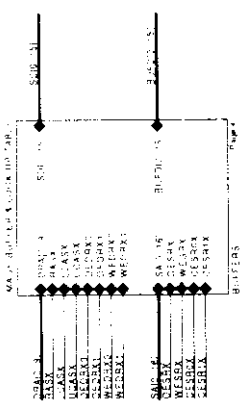
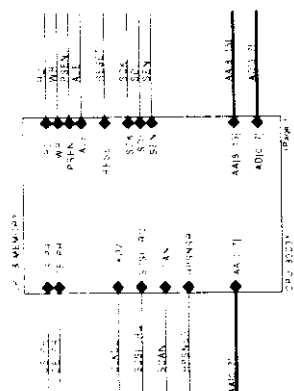
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REMARKS



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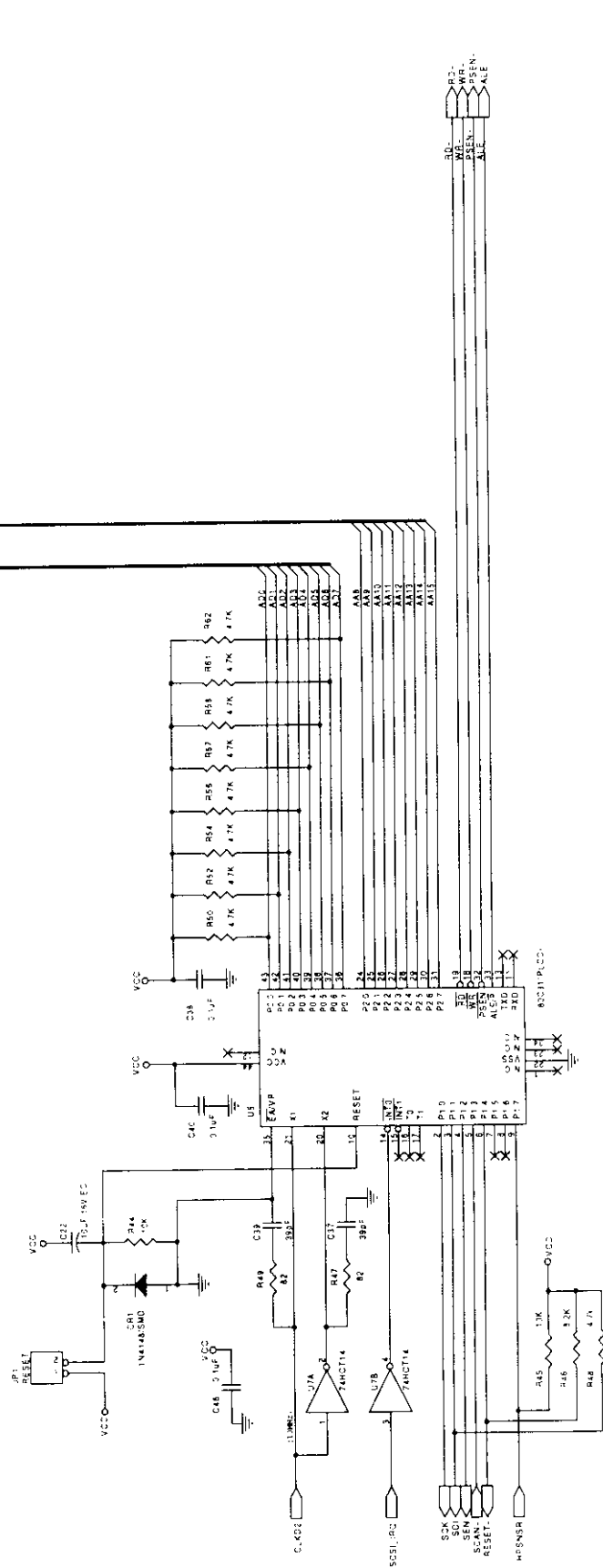
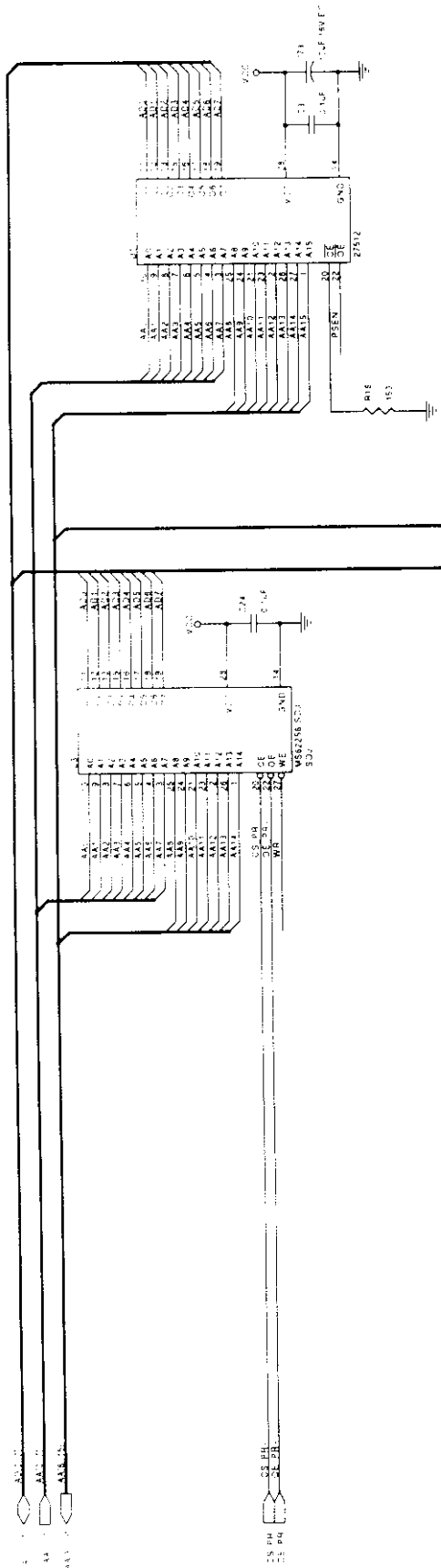




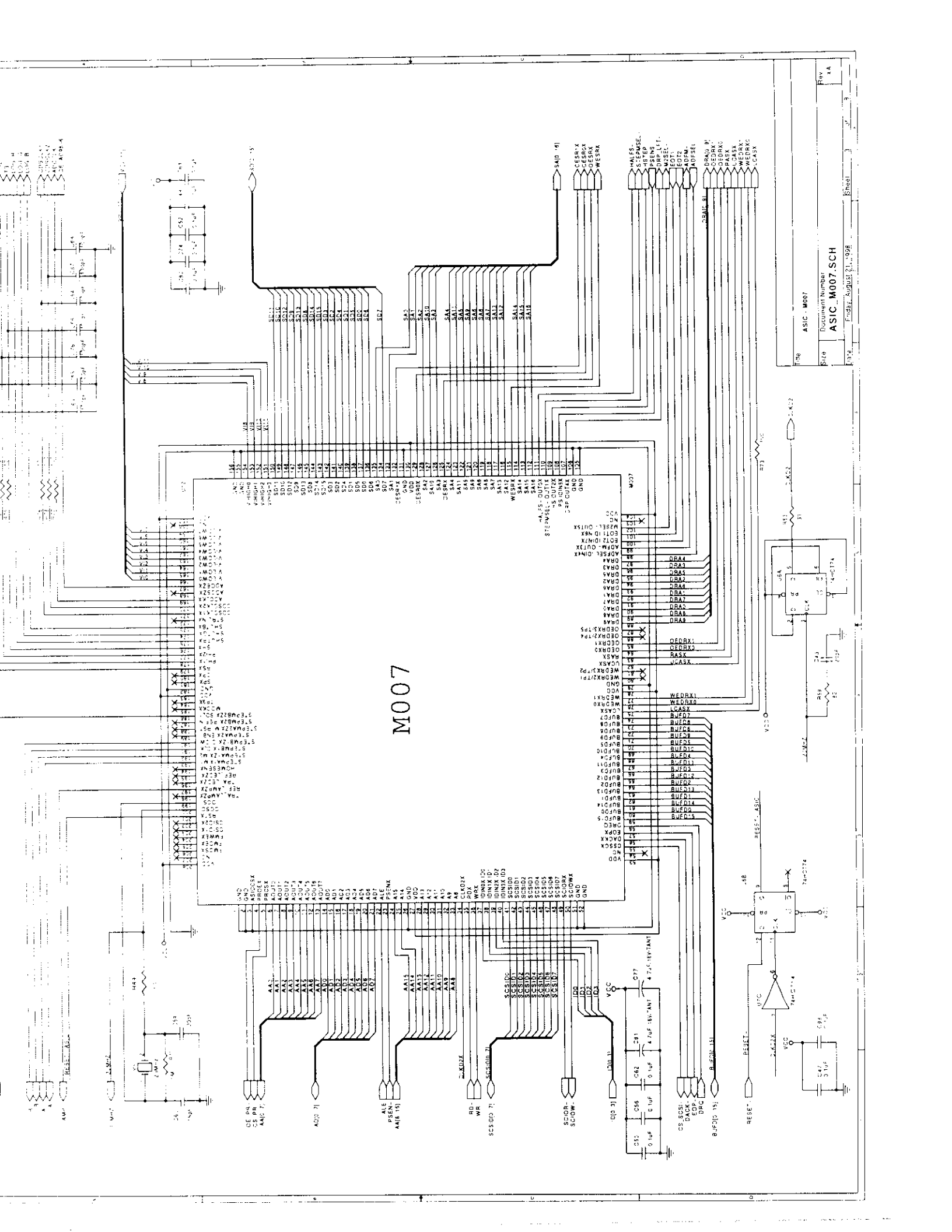
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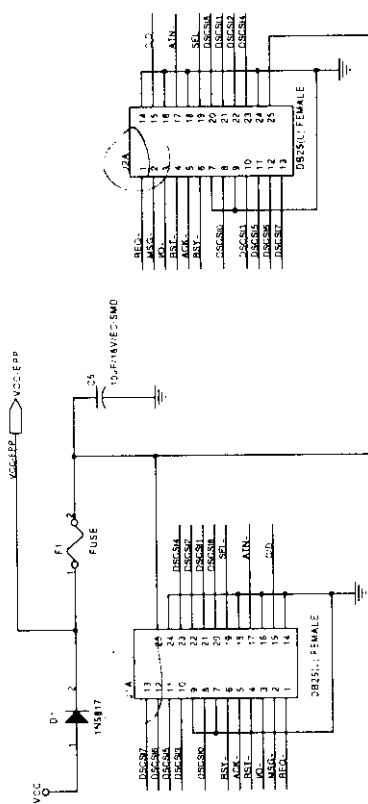
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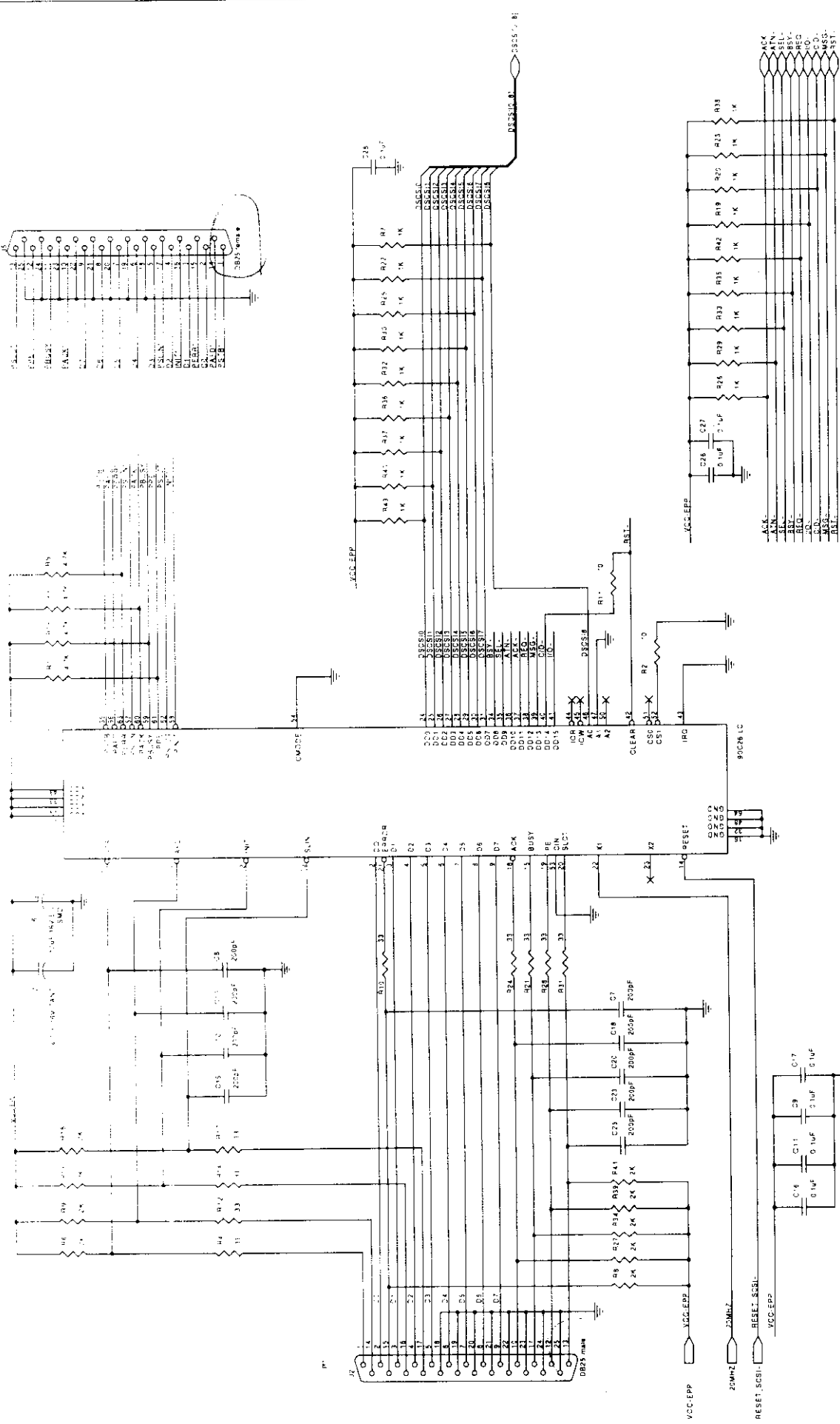
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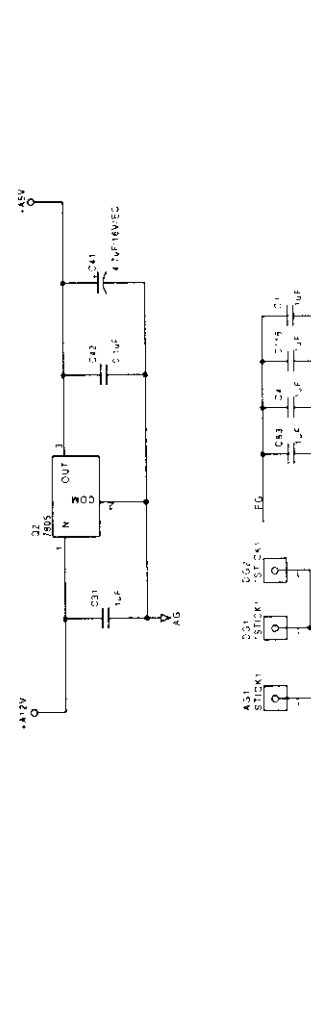
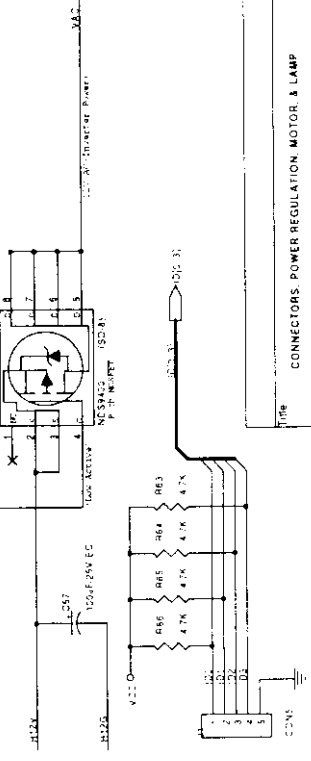
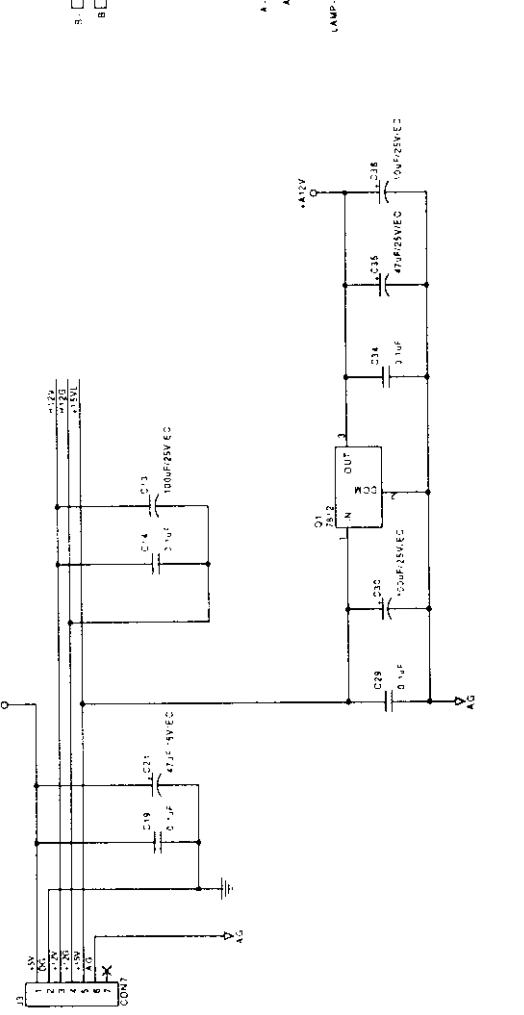
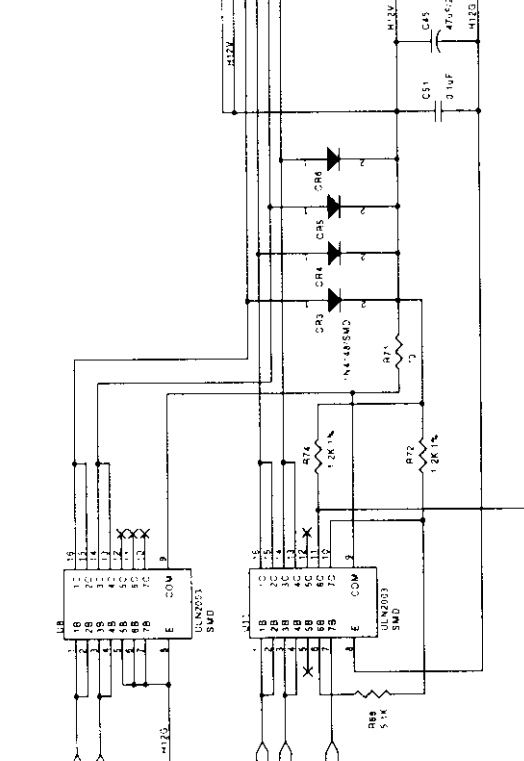
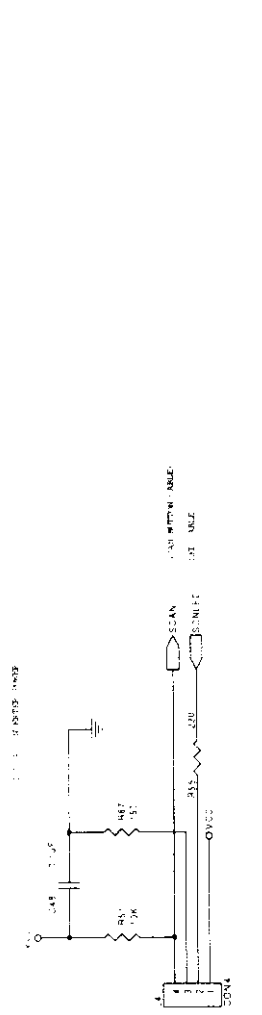
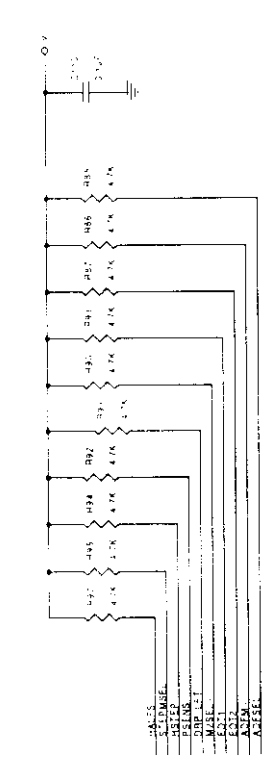
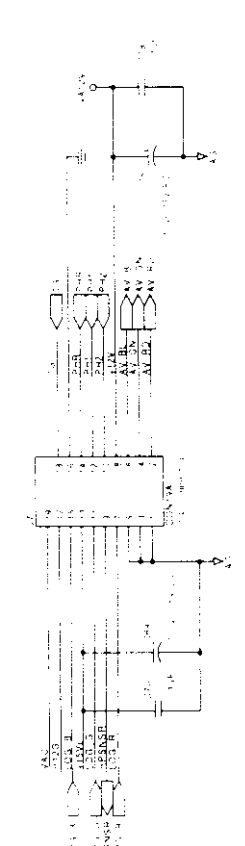
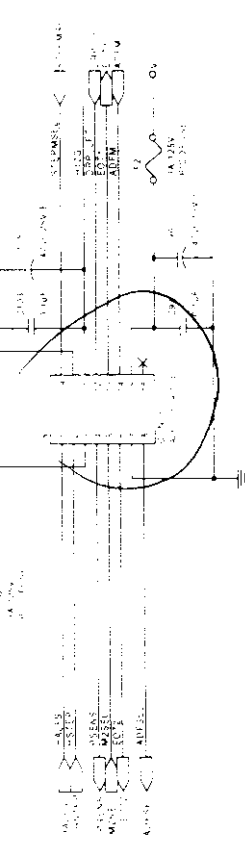
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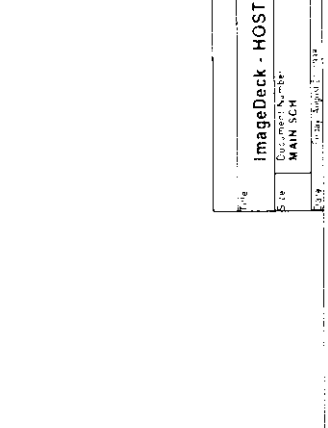
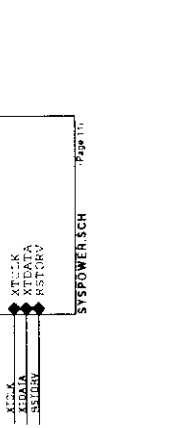
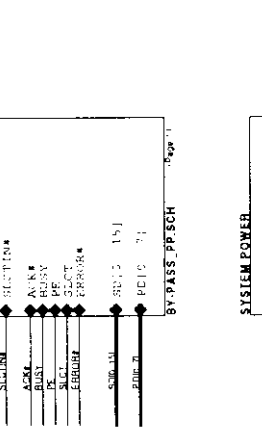
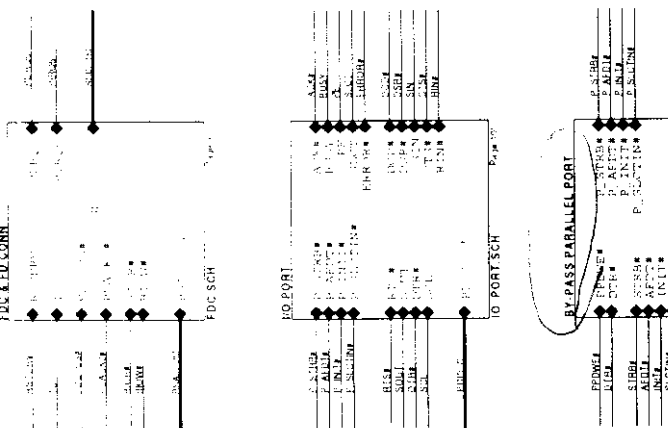
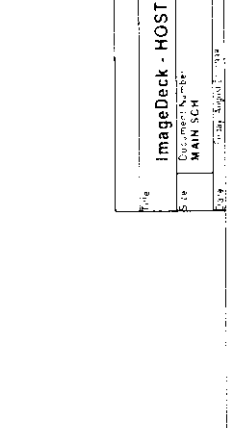
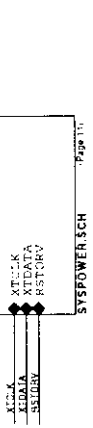
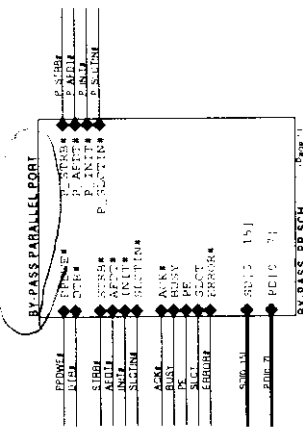
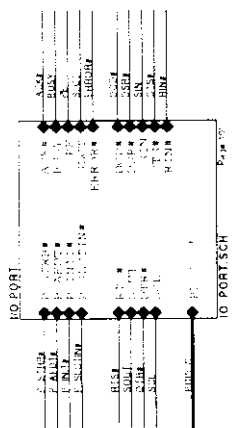
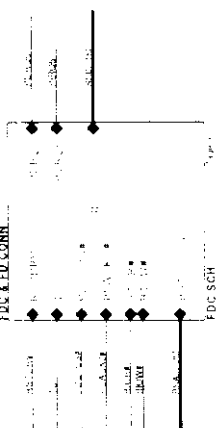




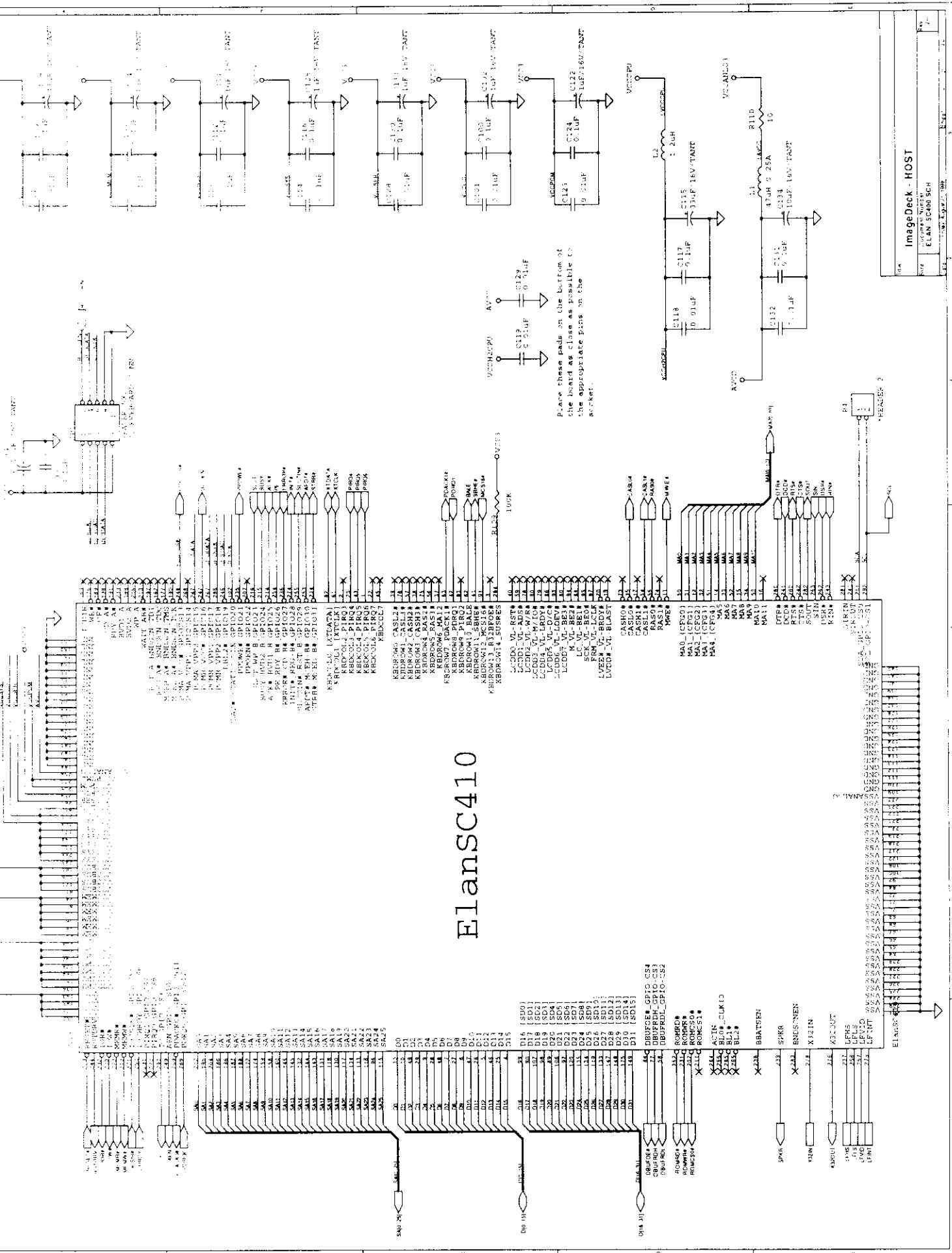
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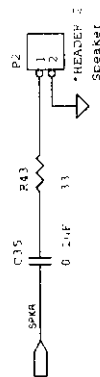
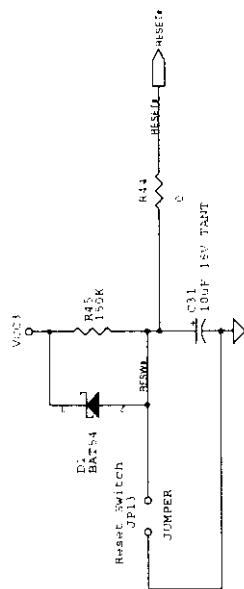
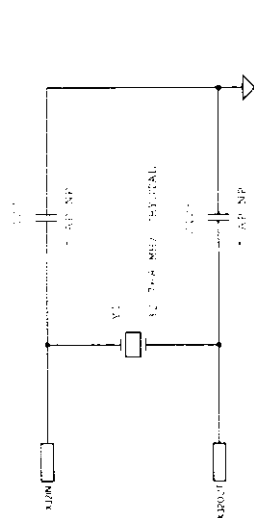
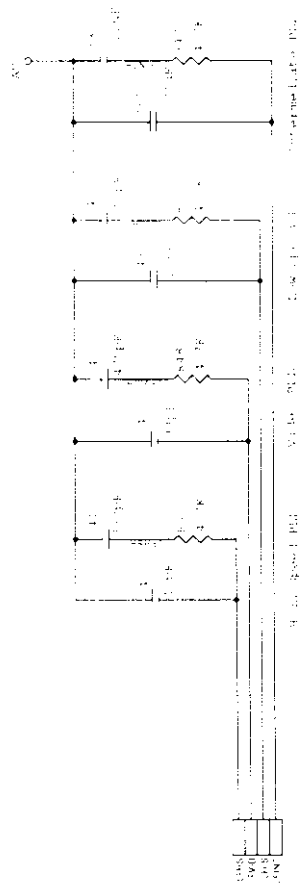


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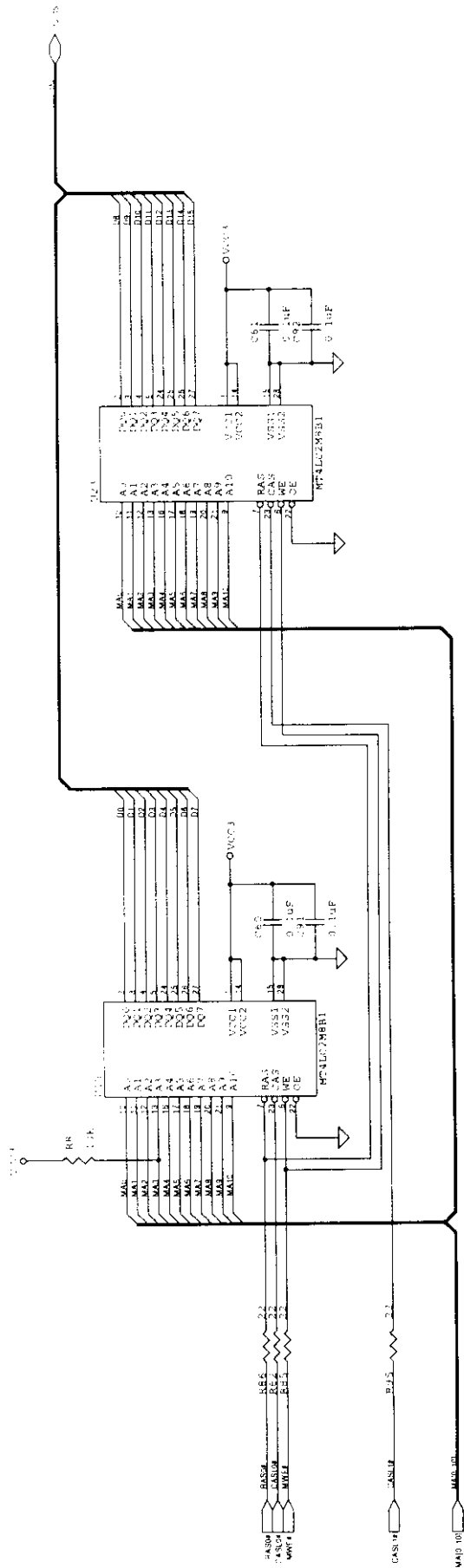


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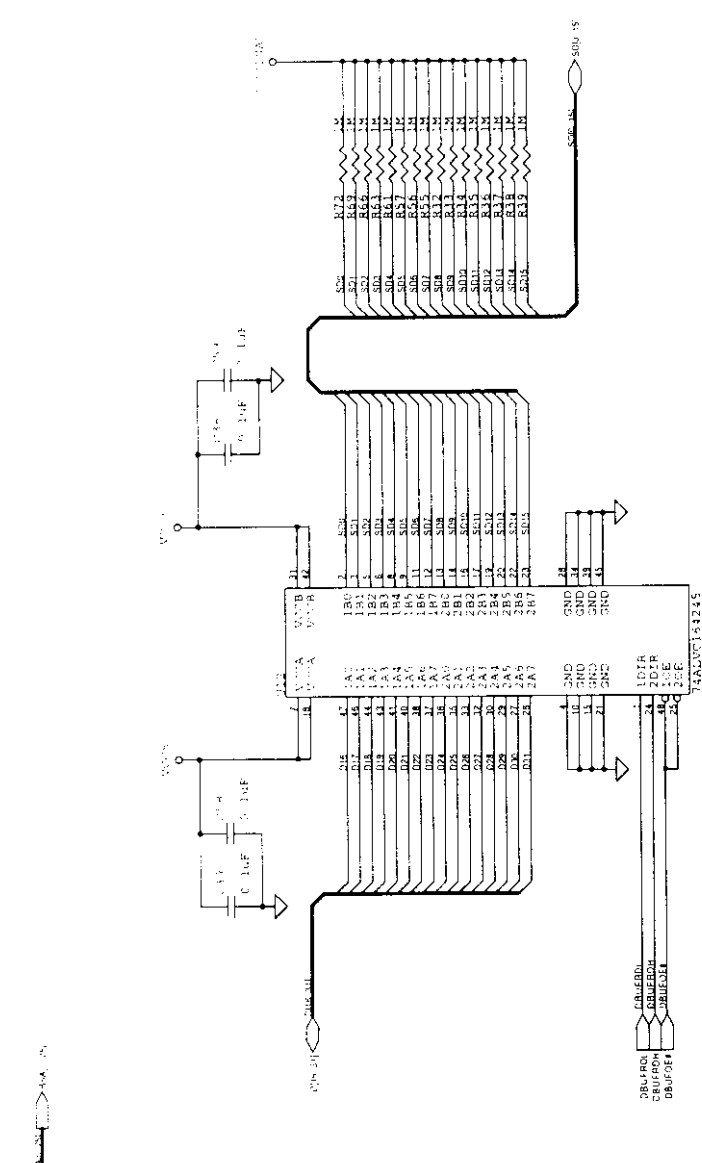
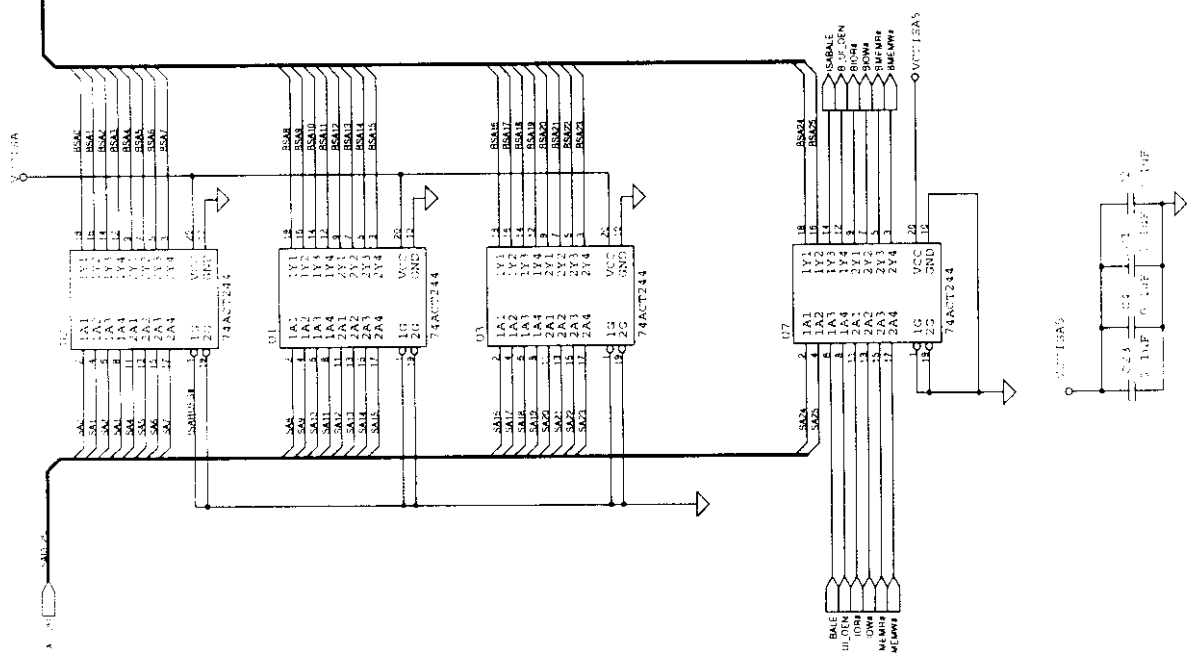
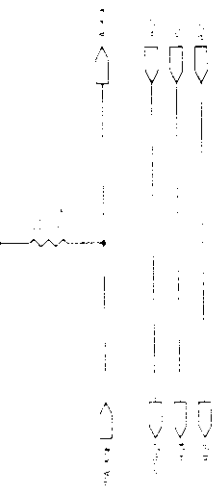
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Appr	W. J. J. J.

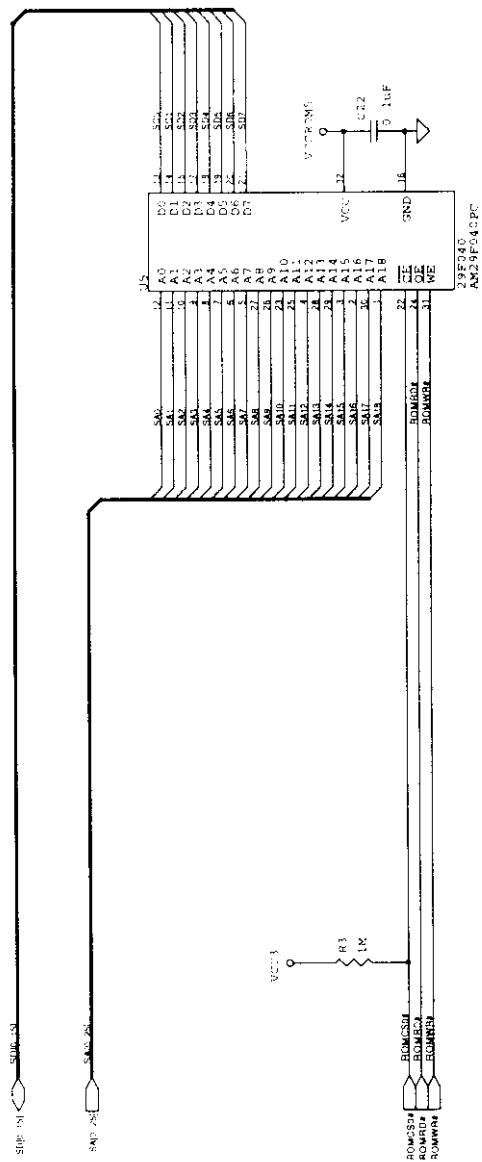


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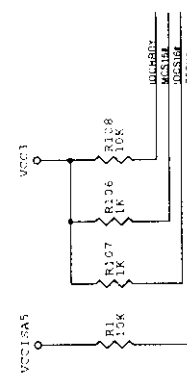
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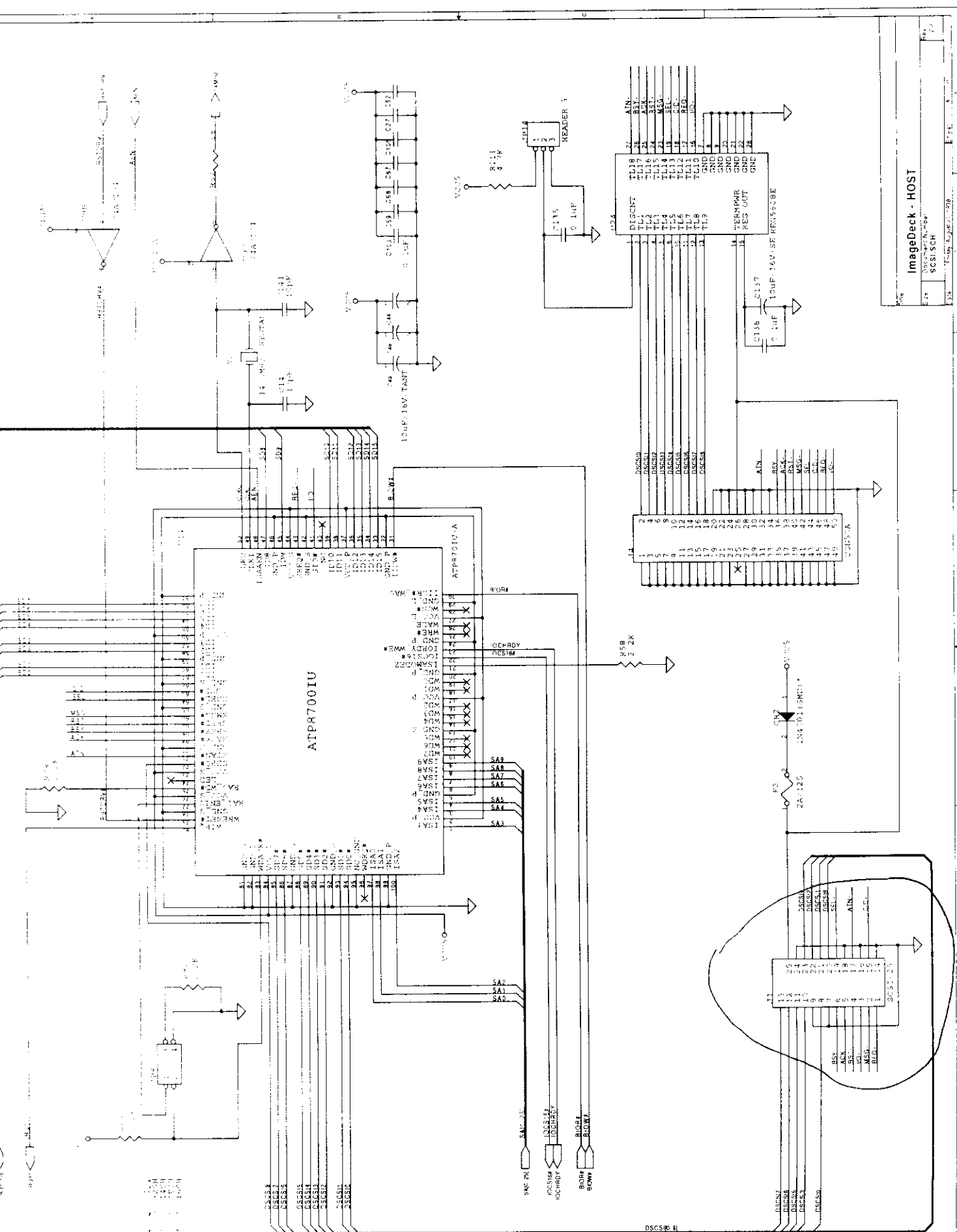


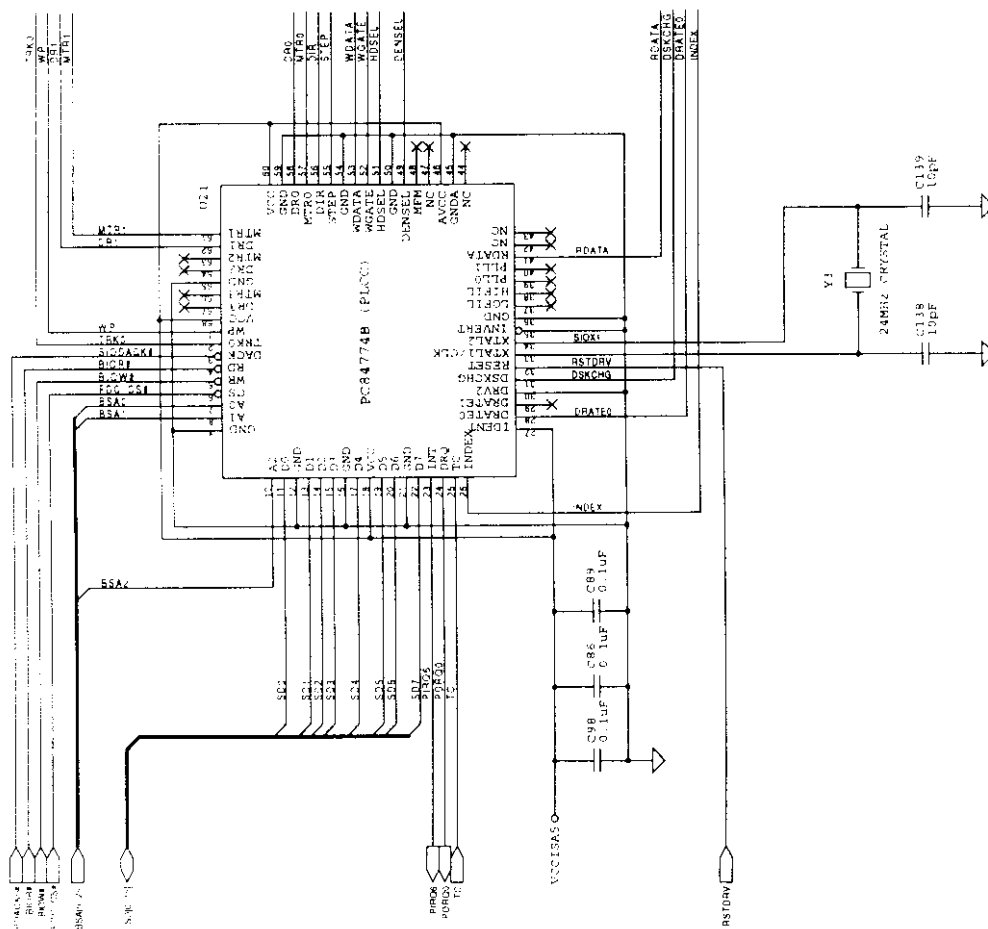
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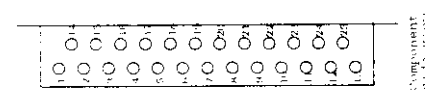
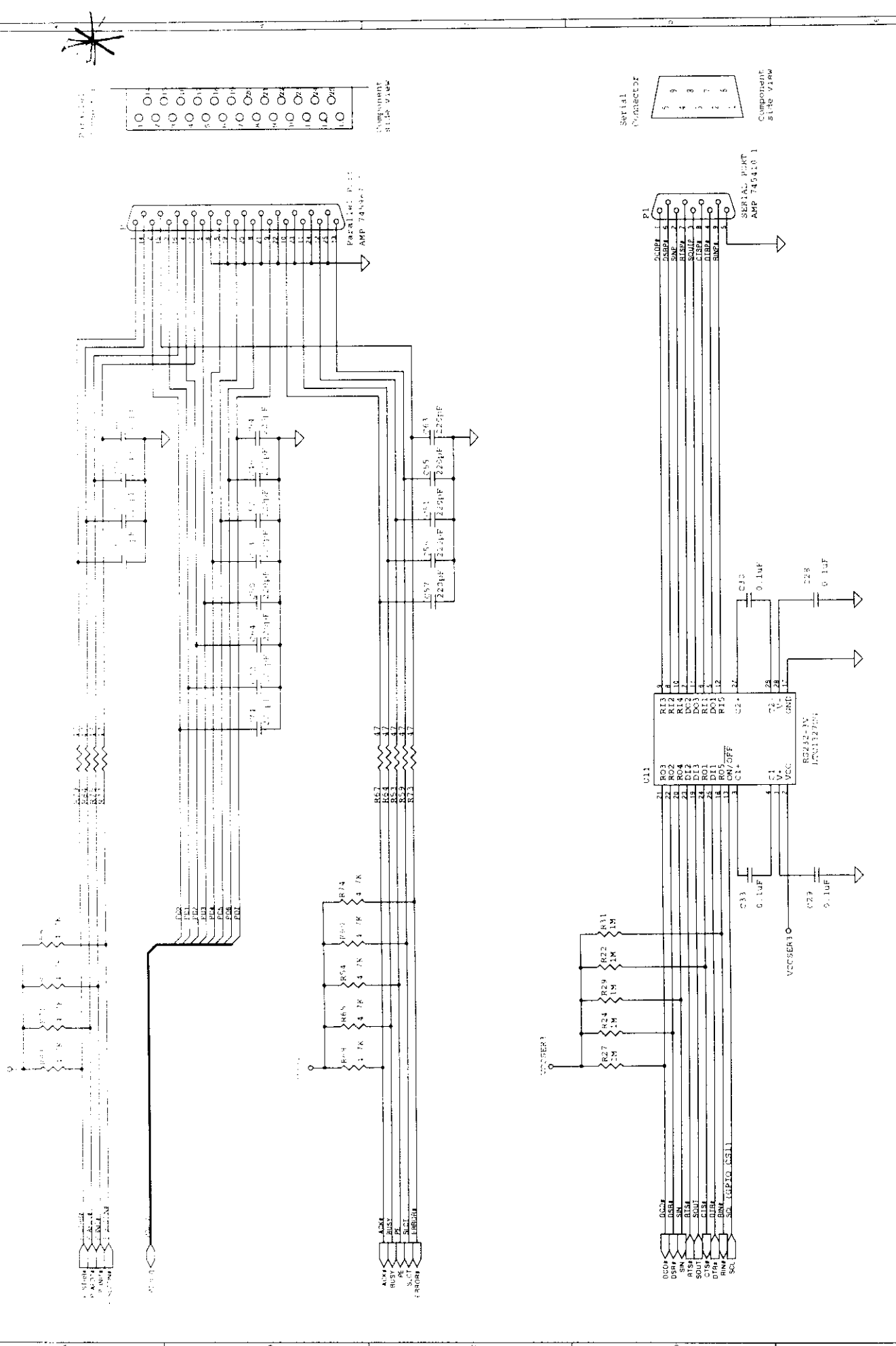




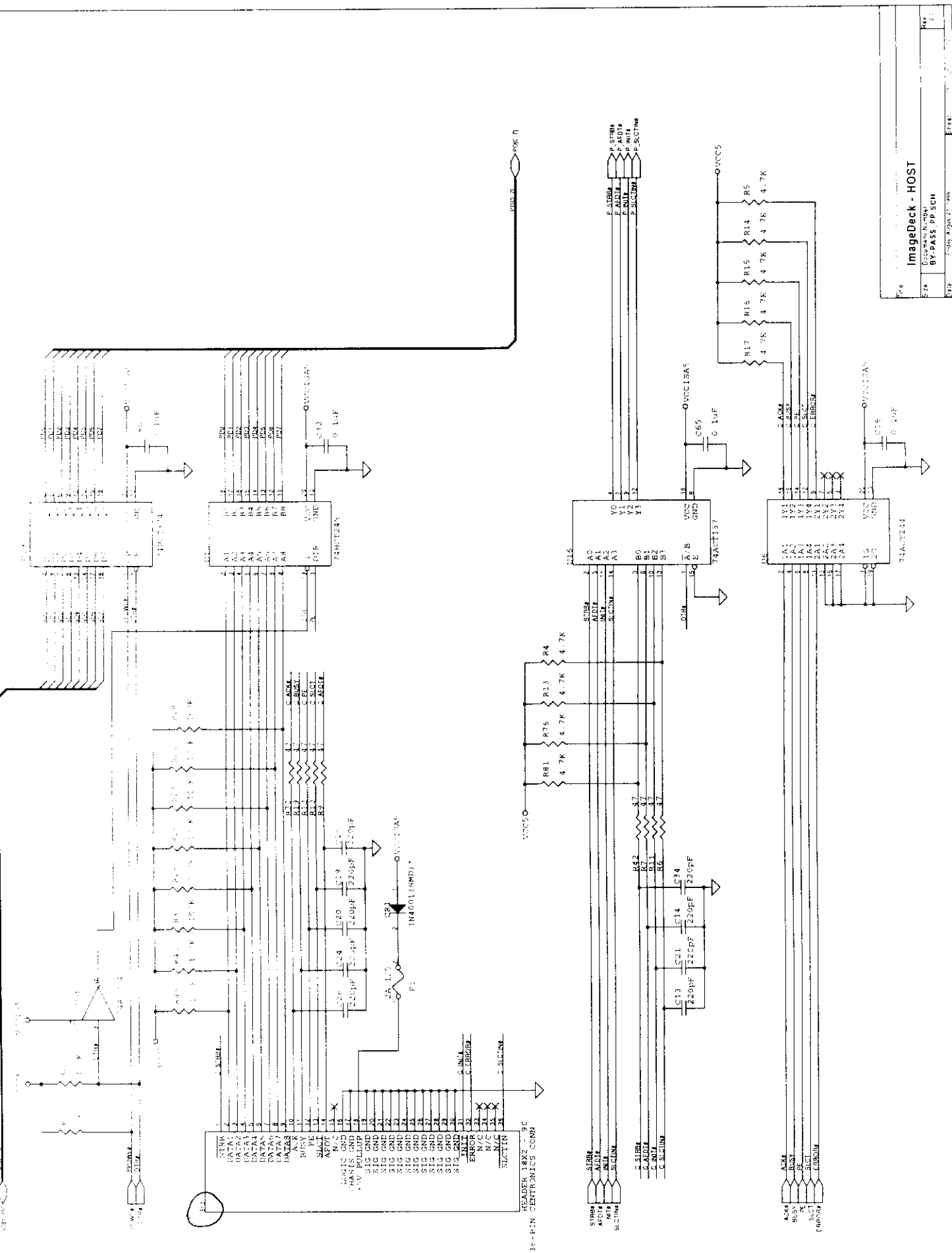
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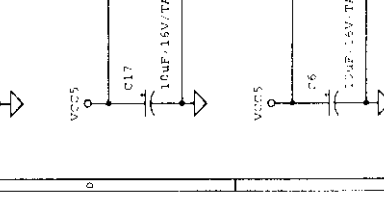
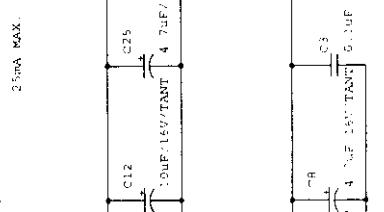
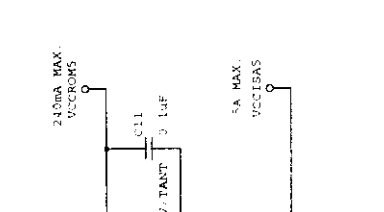
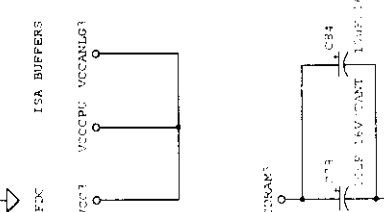
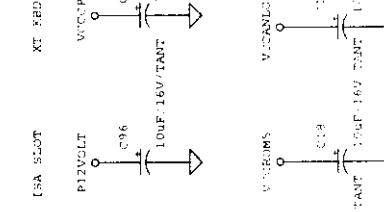
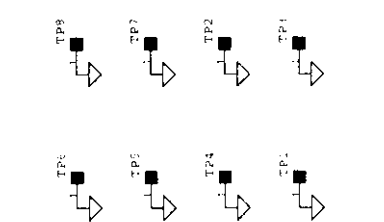
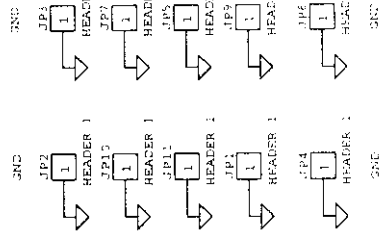
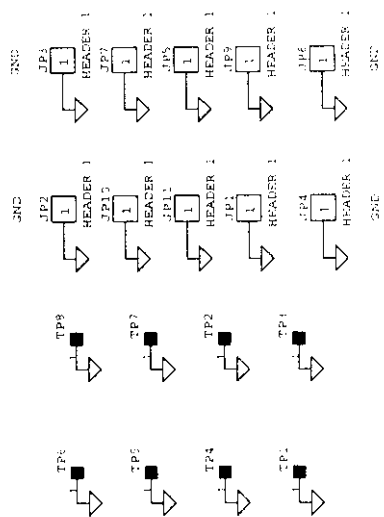
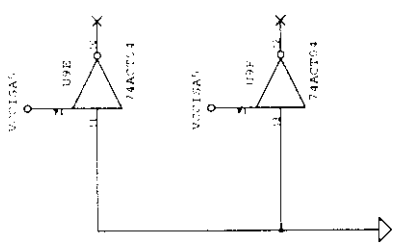
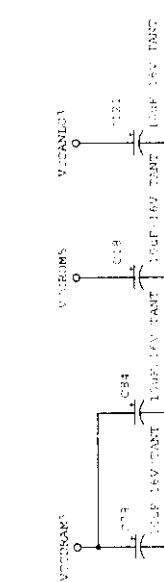
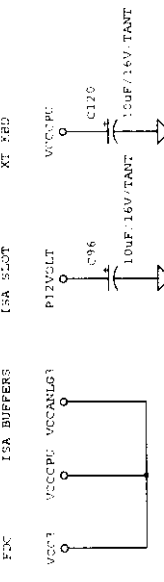
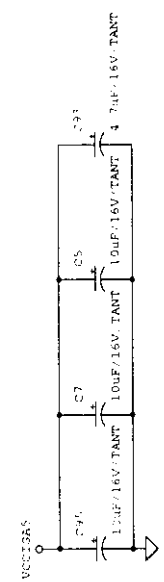
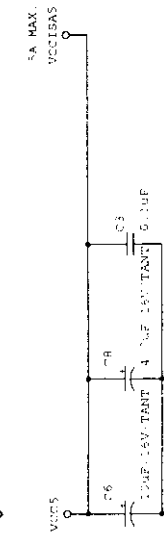
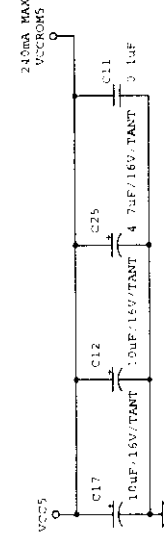
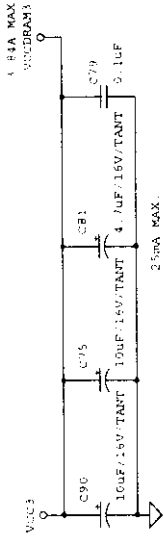
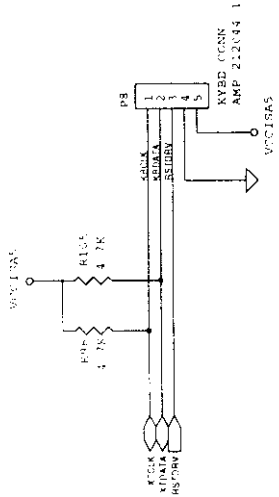
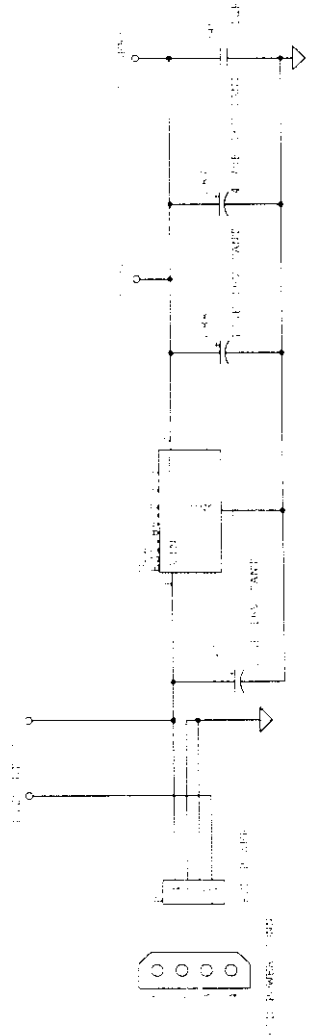
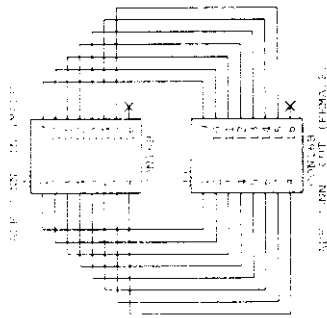
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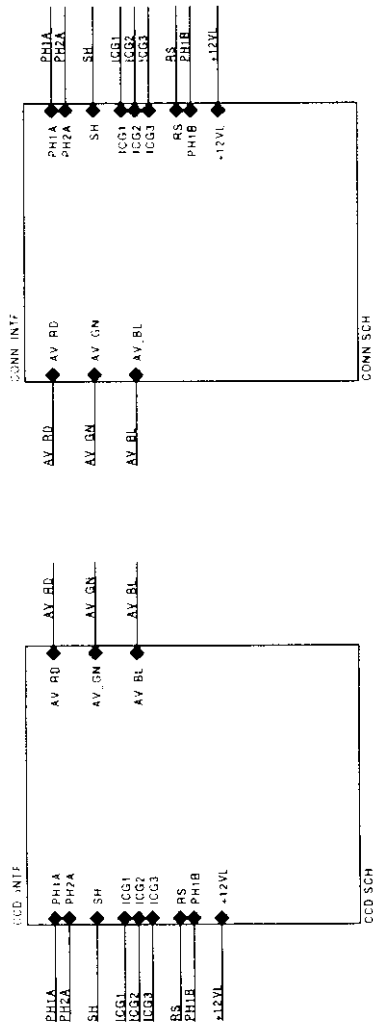
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Source Number	BY-PASS PP SCH
Rev	1.1



ImageDeck - HOST
SYSPOWER SCH



MICROTEK LAB, INC

Title

ImageDeck - 10K CCD

Size

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Document Number

10KCCD-MAIN SCH

Rev

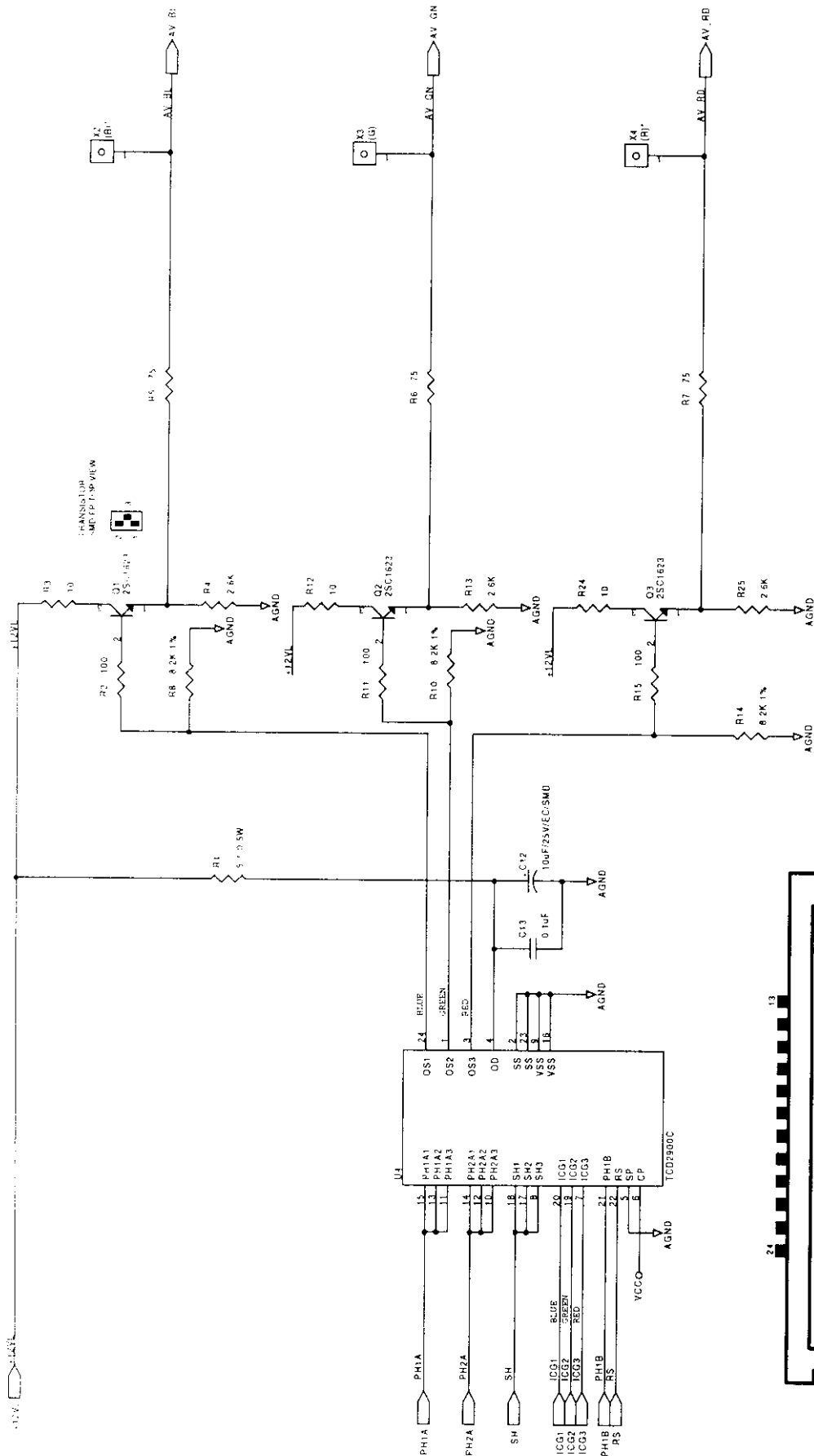
C

Date

Fri, August 21, 1998

Sheet

1 of 3



PROJECT : ImageDeck - 10K CCD

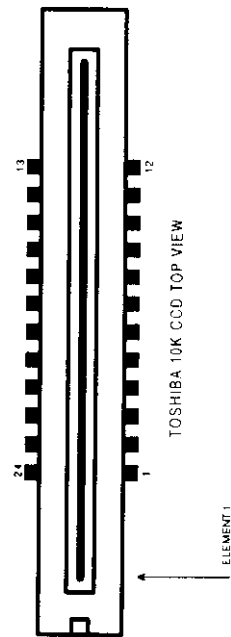
FUNCTION : CCD & OIP CKT

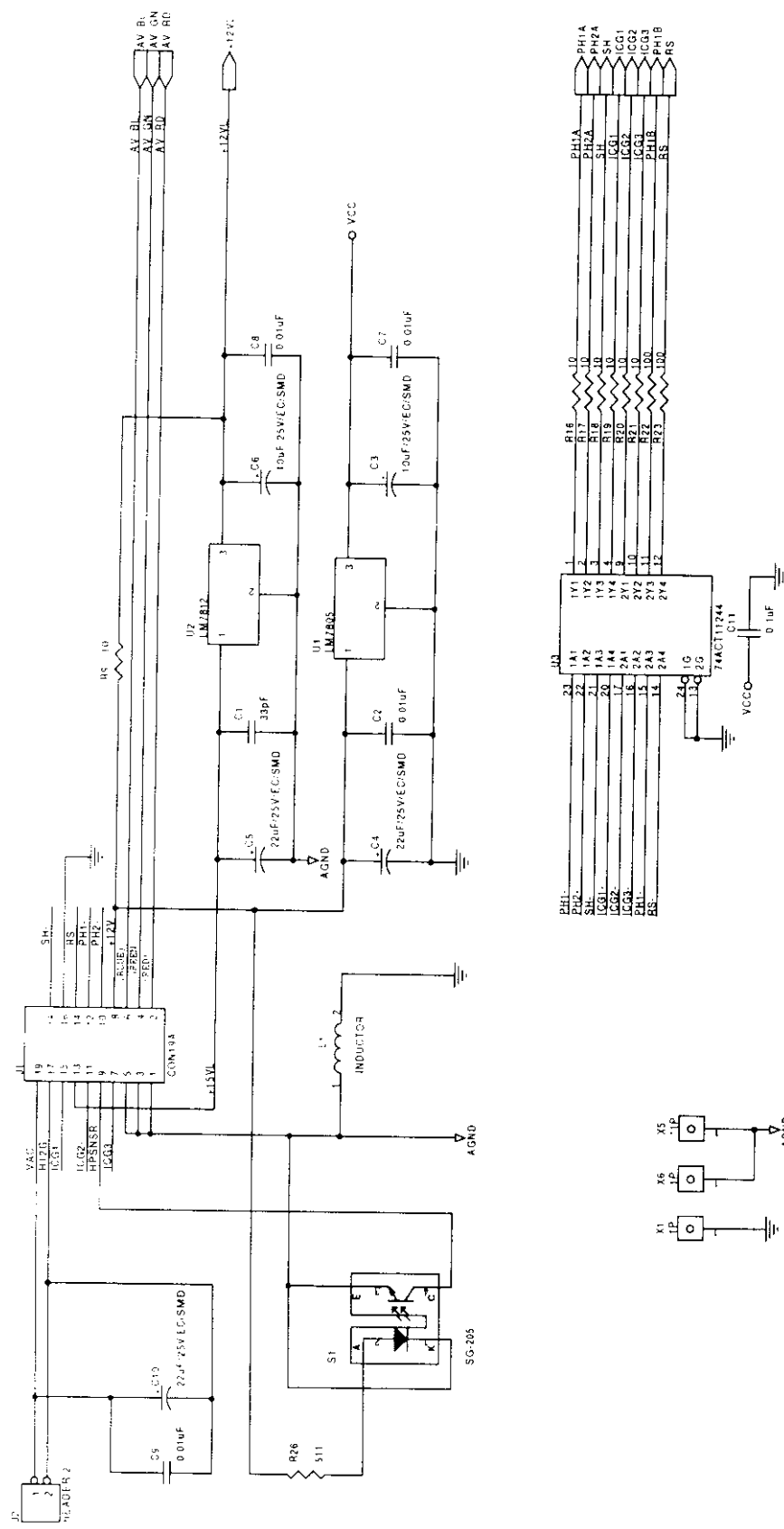
FILENAME : 10KCCD SCH

Size A Document Number

Date : Friday, August 21, 1998

Sheet 2 of 3





PROJECT : ImageDeck - 10K CCD
 FUNCTION : CLOCK DRIVERS & CONNECTORS
 FILENAME : CONN SCH

Size	A	Document Number		Sheet	3	of	3	Rev	C
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Date : Friday, August 21, 1998

Appendix B – PLOT(S) OF CONDUCTED EMISSION TEST DATA

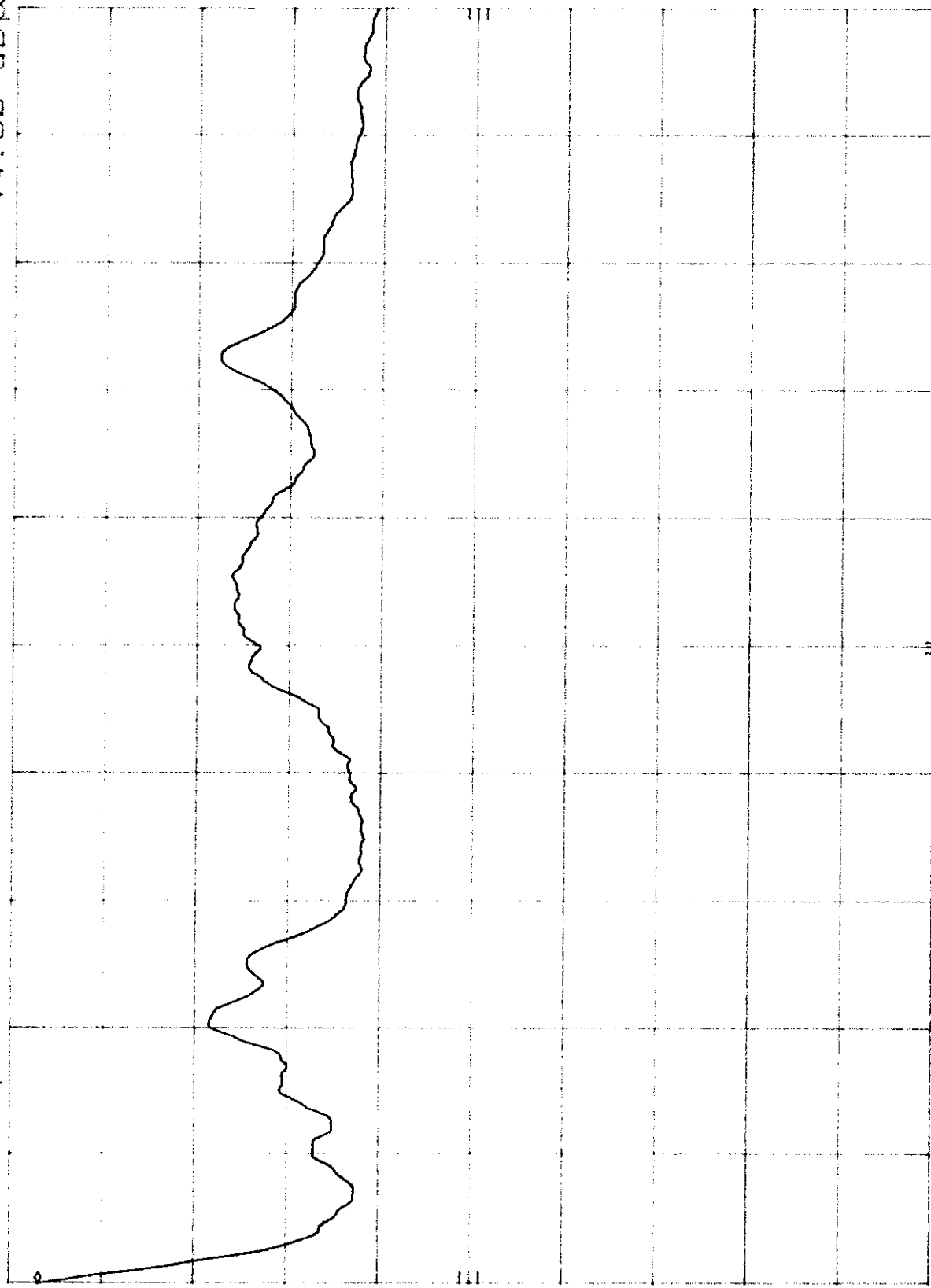
MICROTEK ID-600 (IMAGEDeck SCANNER)

MKR 450 KHZ
44.80 dB μ V

REF 48.0 dB μ V
ATTEN 0 dB

hp

10 dB/



START 450 KHZ

RES BW 10 KHZ

VBW 30 KHZ

STOP 30.00 MHz
SWP 20 sec

Appendix C – USER MANUAL

ImageDeck: Setup and Features

Description

ImageDeck is 36-bit scanner with scan, copy, image-saving, image-compression, and disk-formatting capabilities. The scanner has a Zip drive for accommodating a 100-MB Zip cartridge, as well as a floppy drive that can accommodate conventional 1.4-MB floppy disks. ImageDeck has 600 x 1200 dpi optical resolution and scans in color, grayscale, and black-and-white modes. When connected to a printer, ImageDeck can act as a "copier" through its Copy function.

Setting up

To set up ImageDeck, simply plug the power cord into the back of the scanner and into a power outlet. If you wish to connect a printer to it, plug the printer cable into the parallel port of the scanner. Then power up the scanner, using the *Power* button located on the front panel of the scanner.

Using ImageDeck

The ImageDeck functions are located on the top panel of the scanner. Below is an illustration showing the top panel and the various function buttons.



To scan and save an image:

1. Place the image to be scanned on the scanner.
2. Press the *Mode* button until the green LED light goes on in the *Scan* section of the panel, and choose *B/W*, *Grayscale*, or *Color*.
3. Insert a floppy disk into the scanner's floppy drive, or a Zip cartridge into the Zip drive, depending on your choice of storage medium.
4. Press the *Save to* button on the top panel, and choose whether you wish to save the image to *Zip* (Zip cartridge) or *Floppy* (floppy disk). Do not press the "Save to" button for more than 5 seconds, or you will initiate disk-formatting operations.
5. Specify the other settings for your scan by pressing the corresponding function buttons and making your selection. These settings include Resolution, Compression, and Scan Area. See the next section for details on each setting.
6. Press the *Start* button. The image is scanned and saved to the selected Zip cartridge or floppy disc. For details on file formats and file names, refer to the *Save to* feature discussed in the next section.

To use the copy function:

1. Place the image to be "copied" on the scanner.
2. Press the *Mode* button until the green LED light goes on in the *Copy* section of the panel, and choose *B/W* or *Color*.
3. Press the "+" or "-" end on the hourglass-shaped bar in the middle of the top panel to indicate the number of copies to be printed.
4. Press the *Start* button. The image is scanned and sent as a "copy" to your printer.

To select a printer:

Press the *Mode* button for at least 5 seconds to enter printer-selection mode. The selected printer will be shown on the display screen, and the printer selection remains in effect even after the scanner has been powered off.

Other Settings

The Other settings for ImageDeck include Stop / Clear, Compression, Resolution, Scan Area, Document, and Save to.

Stop / Clear

The *Stop / Clear* button lets you stop the current scan or copy function taking place.

Compression

The *Compression* button lets you choose the amount of file compression you want for the scanned image. The options provided include *Low*, *Medium*, and *High*; lower compression translates to a larger file size but better image quality. The Compression setting is not available for the *Copy* function or when you are scanning in *B/W* mode.

Resolution

The *Resolution* button lets you choose the level of resolution for the image to be scanned. The selected setting is shown on the display screen in the top panel.

- A. Resolution for Scan function (in dpi; low, medium, high resolution settings indicated below)
 - B/W Mode: 150, 300, 600
 - Grayscale: 75, 150, 300
 - Color: 150, 300, 600
- B. Resolution for Copy function: This is set at default to 100 dpi. *Note: On the display screen, the setting shown when Copy mode is enabled refers not to the resolution setting itself but to the number of copies to be printed.*

Scan Area

The *Scan Area* button lets you choose the maximum size that can be scanned by the scanner. The sizes are indicated below.

- A4: 8.5" x 11.7"
- Letter: 8.5" x 11"
- Auto: Auto cropping is enabled, and the scanner scans whatever-size image or document is placed on the scanner bed.

Document

The *Document* button is an "auto-scanning" button with a collection of built-in settings for quick, speedy scanning. The built-in settings are:

- Scan Mode: B/W. Color documents may be used for scanning with the *Document* button, but the resulting output is black-and-white.
- Resolution: 300 dpi
- Scan Area: Letter size
- Compression: No compression

To use this feature, simply press the *Document* button, and the scanner will start scanning in the prescribed settings indicated above. There is no need to press the Start button otherwise needed to initiate scanning.

Save To

The *Save to* button lets you choose whether to save to the Zip drive or the floppy drive. If you press the *Save to* button for at least 5 seconds, this will start the disk-formatting operations of the scanner towards the selected Zip cartridge or floppy disk.

- File formats: Files scanned in black-and-white mode are saved in the *pcx* file format. Files scanned in color mode are saved in the *jpeg* file format.
- File name: Saved files are assigned numeric file names in sequence, starting from *img01.pcx* or *img01.jpg*, and down the line.

Error Messages

Error messages are shown on the display screen and usually relate to disk problems (i.e., disk full, unformatted disk, write-protected disk, etc.). Below is a list of these error messages.

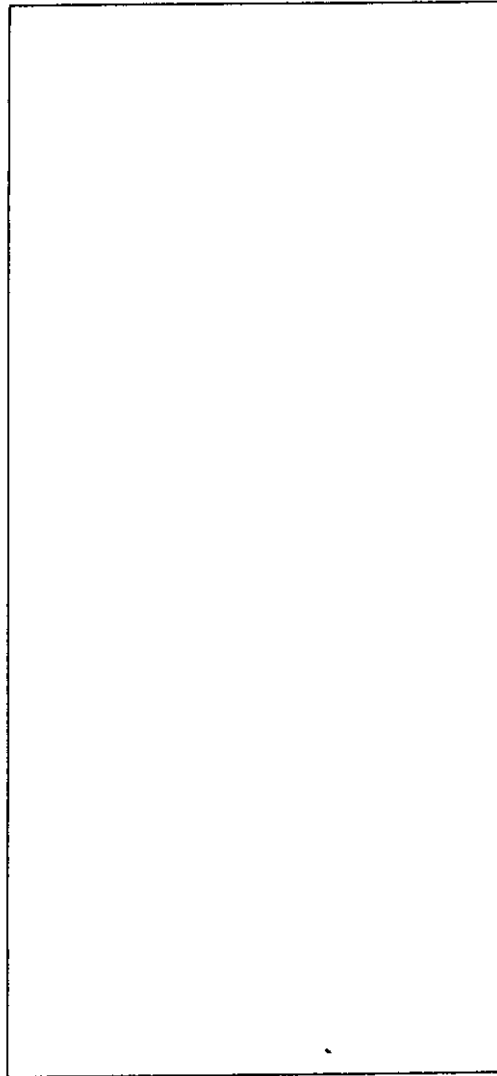
- Pd: Write-protected disk. For write-protected Iomega Zip cartridges, you will need to use the Iomega software to remove write-protection on the cartridge.
- Nd: No disk. Insert a disk in your selected drive.
- dF: Disk full. This could be due to a full or nearly-full disk, to scanning an image at too-high resolution levels, to saving an image at too-low compression levels, or to a combination of all the above.
- nF: Disk not formatted. To format a disk, press the *Save to* button for at least five seconds, and disk-formatting operations of the scanner will be initiated. For Iomega Zip cartridges, you will need to use the Iomega software to format the cartridge.

Supported Accessories

Accessories that can be used with the ImageDeck scanner include the Microtek 10-page Auto Document Feeder, which is used for continuous scanning of text pages.

Supported Printers

The following is a list of printers supported by ImageDeck.



FCC Warning

Class B Computing Device

Information to User

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help and for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: In order for an installation of the product to maintain compliance with the limits for a Class B device, shielded cables must be used.