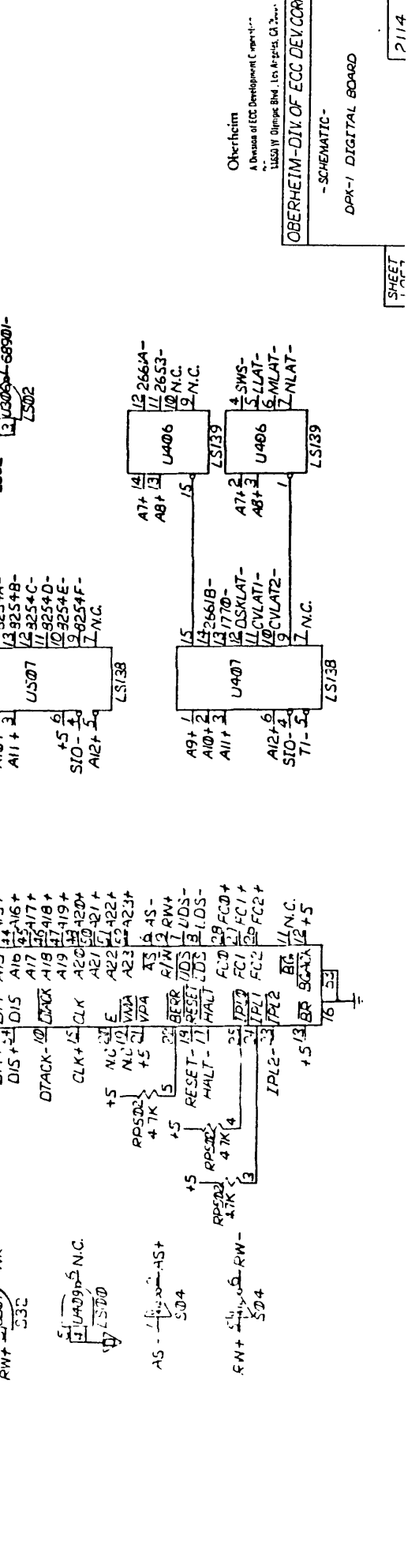
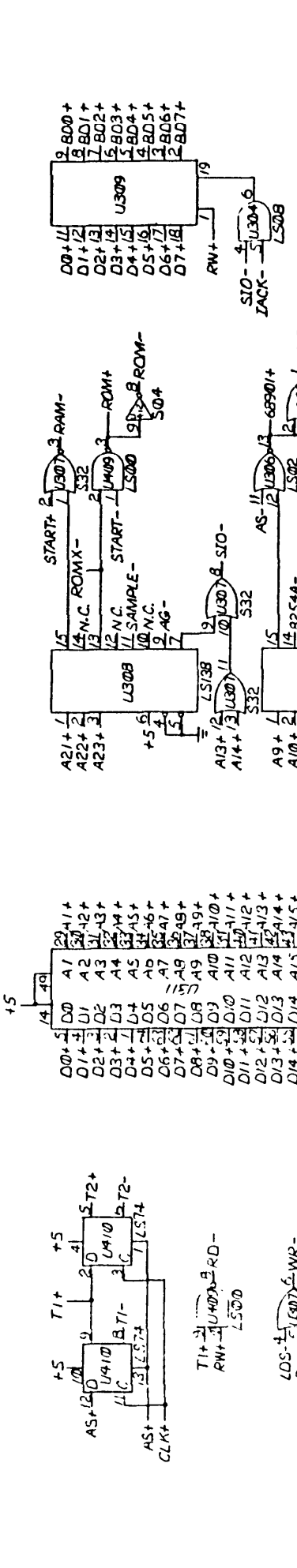
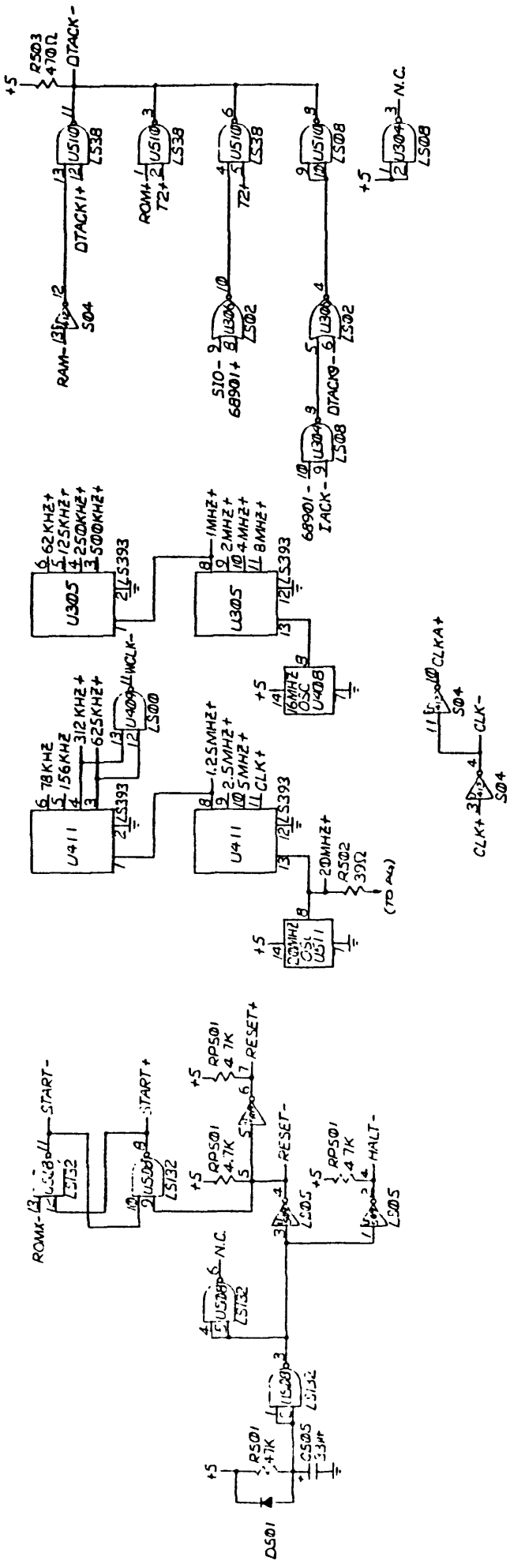


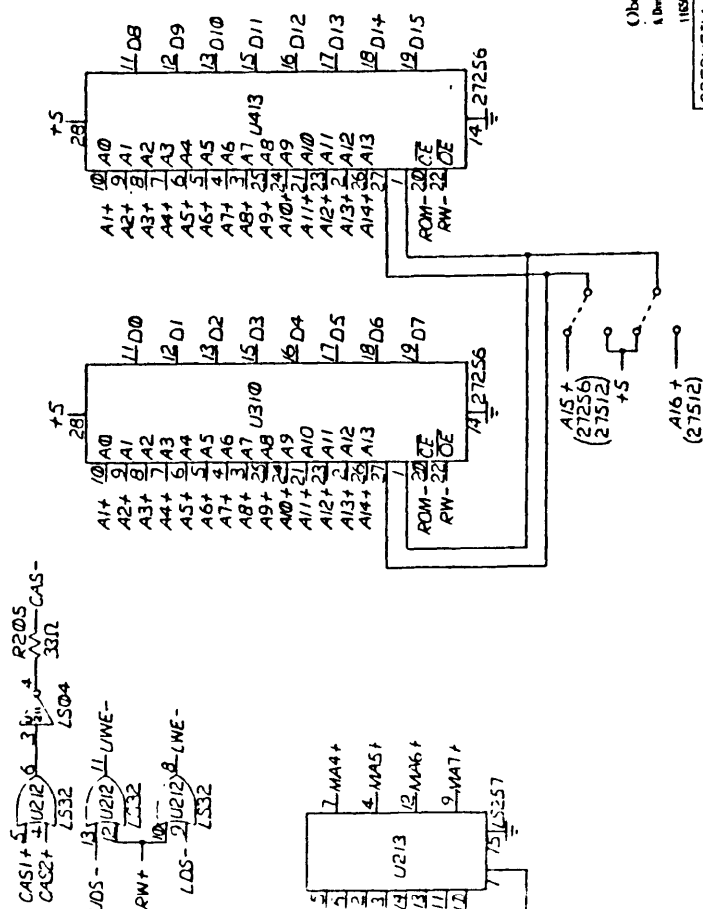
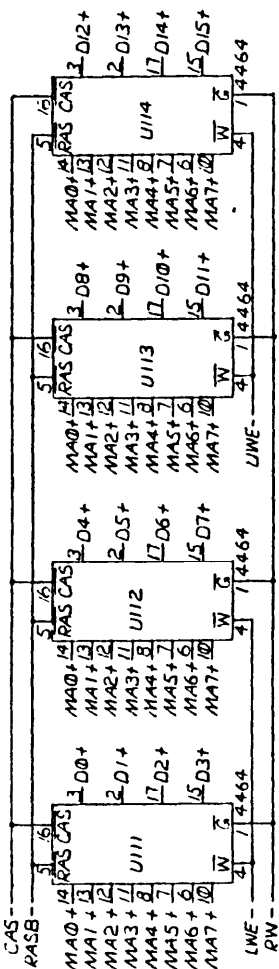
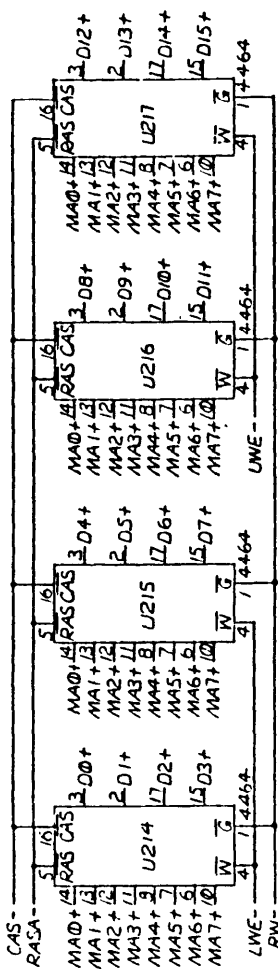
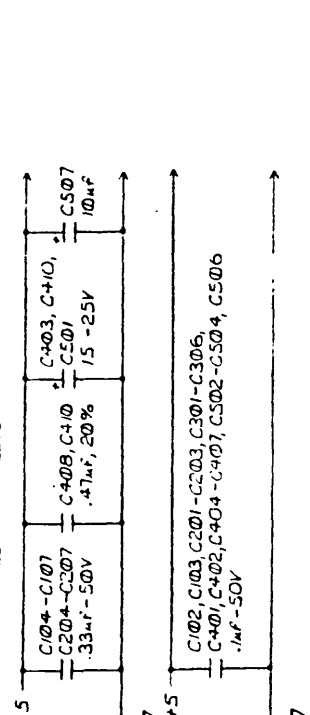
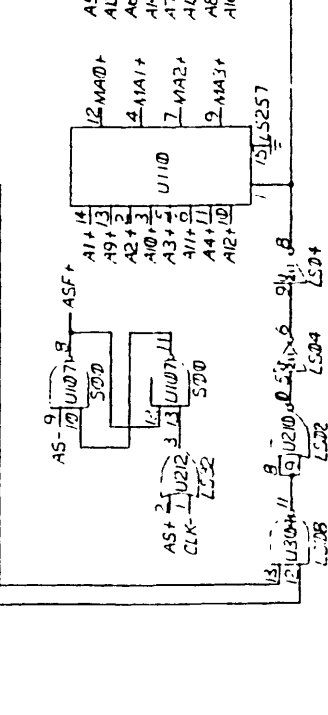
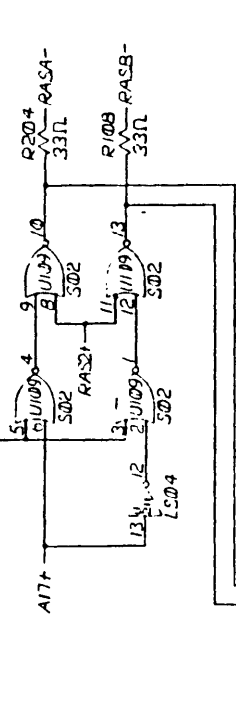
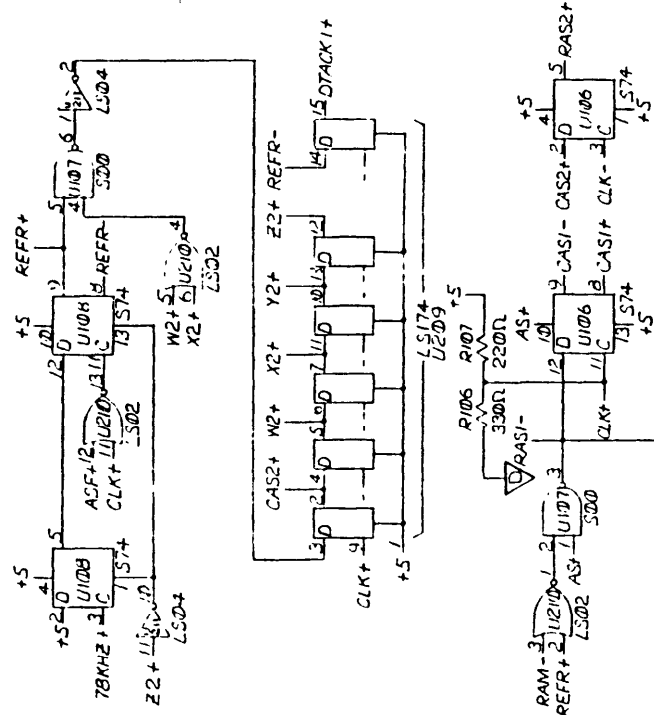
OBERHEIM/GIBSON LABS

DPX-1 SERVICE MANUAL

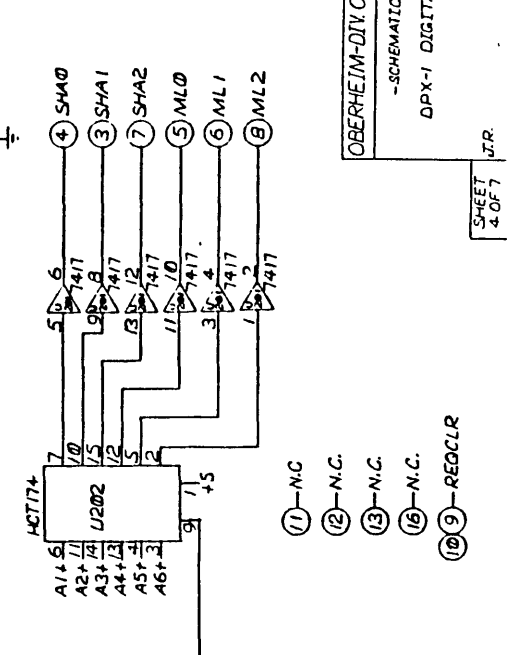
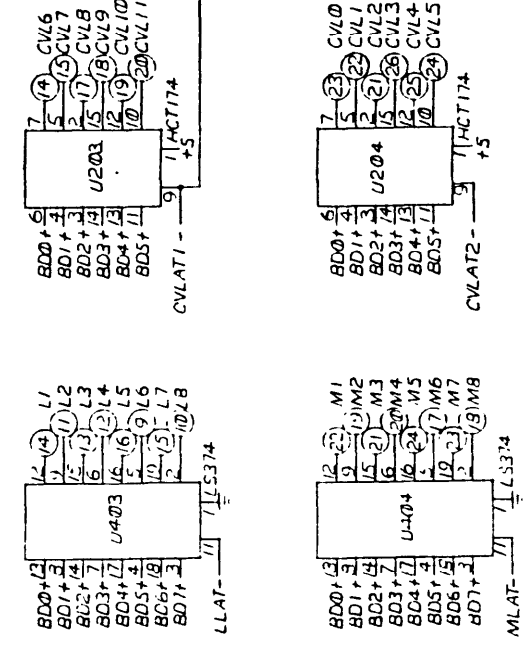
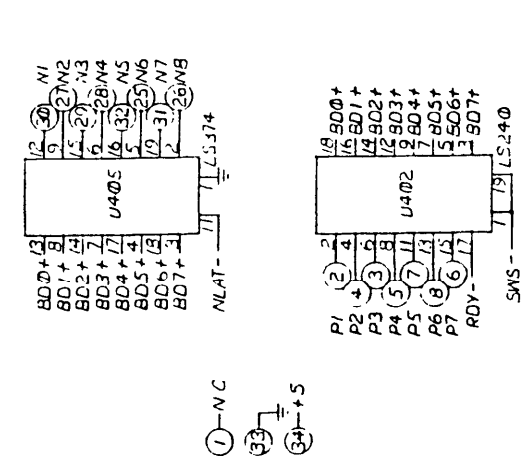
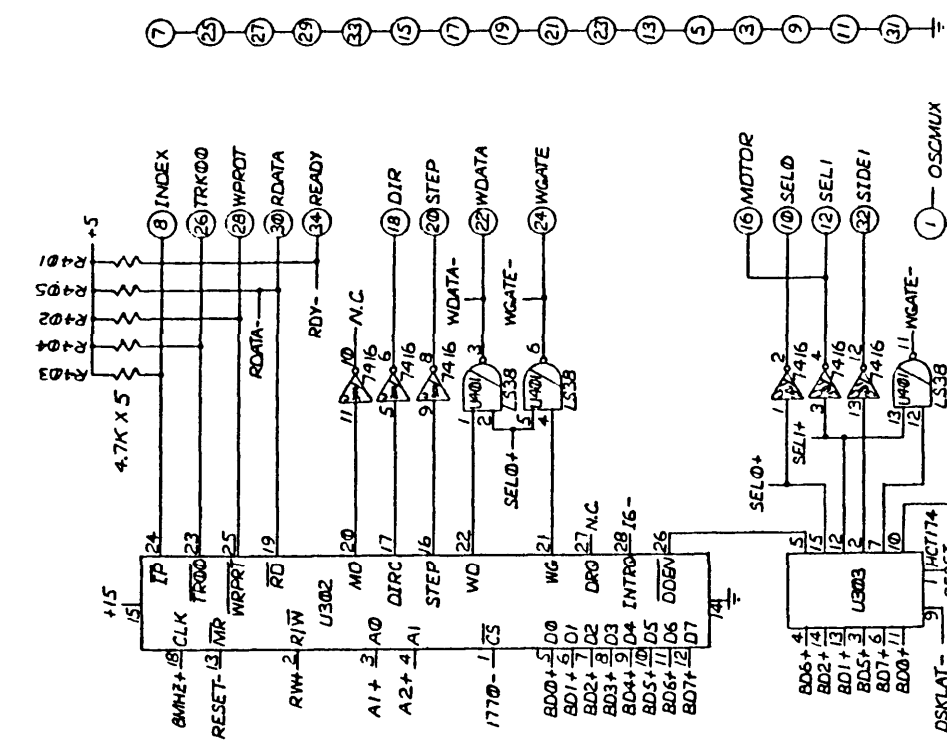
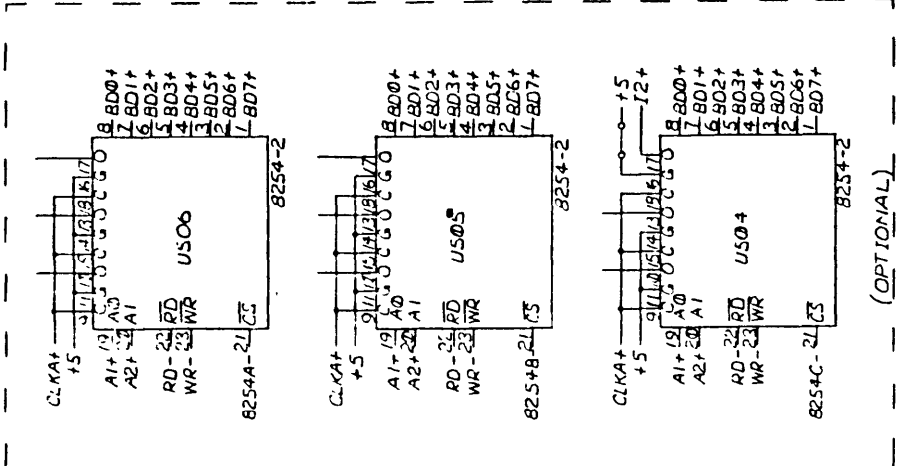
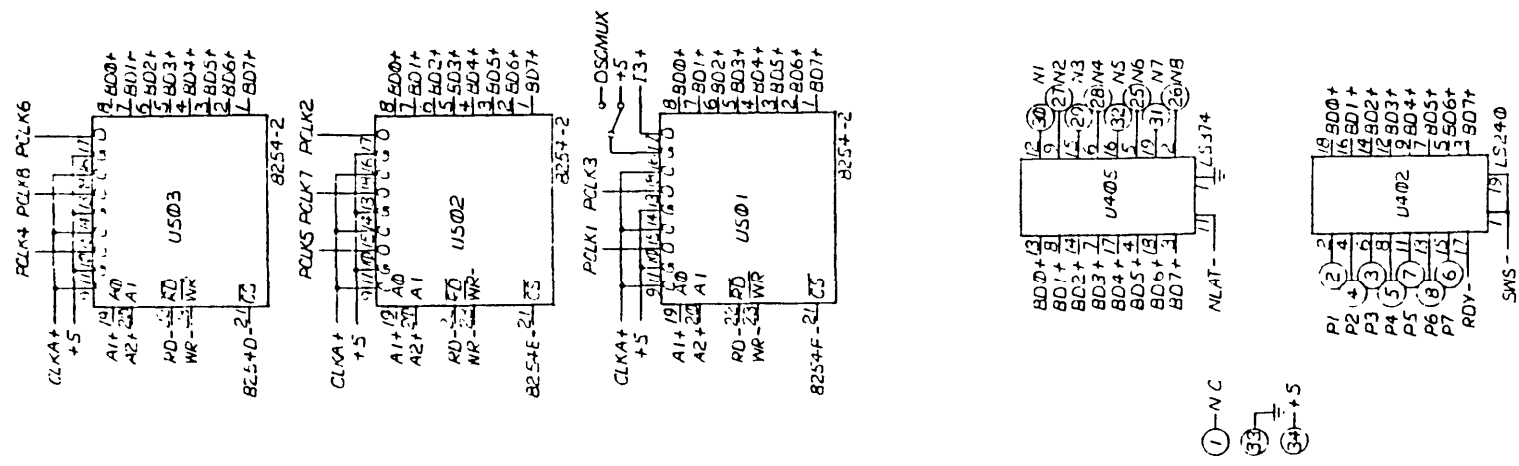
OBERHEIM/GIBSON LABS
13345 SATICOV STREET
NORTH HOLLYWOOD, CA
VOX: (818) 503-0122
FAX: (818) 503-0124

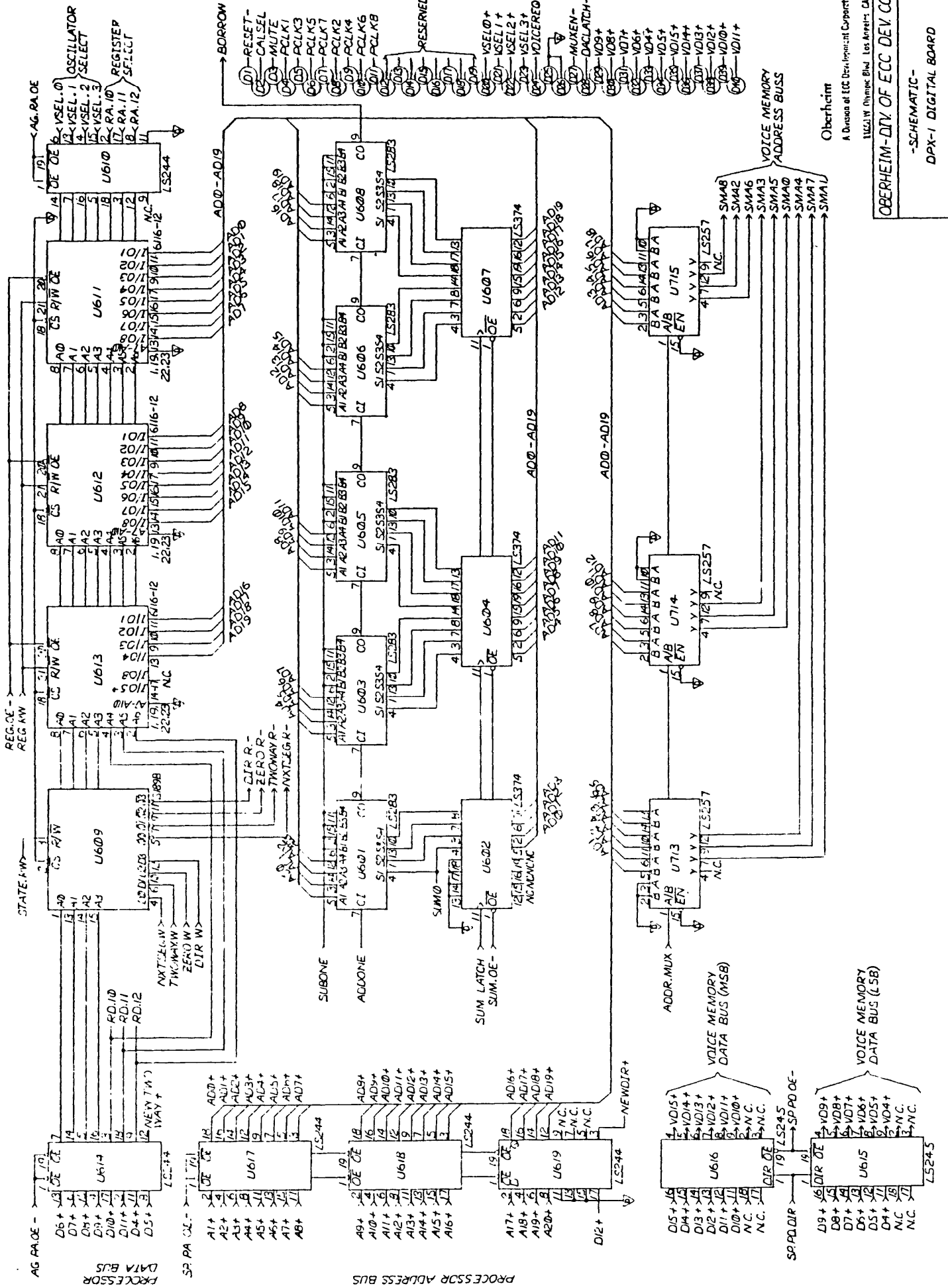


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 -SCHEMATIC-
 DPR-1 DIGITAL BOARD



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- SCHEMATIC -
OPX-1 DIGITAL BOARD
SHEET 2 OF 7 J.R.
12/14





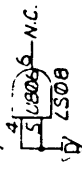
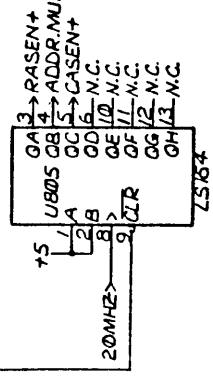
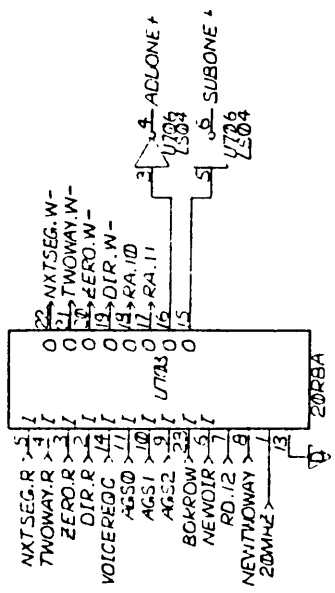
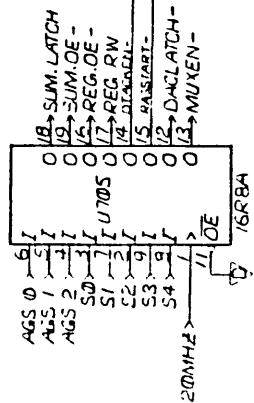
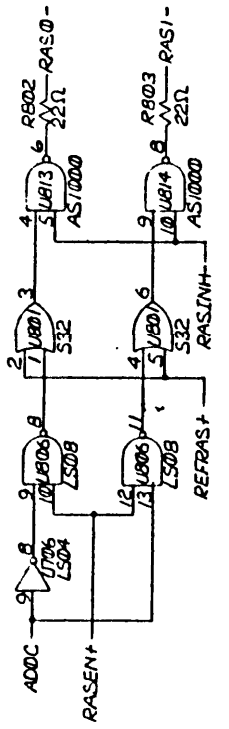
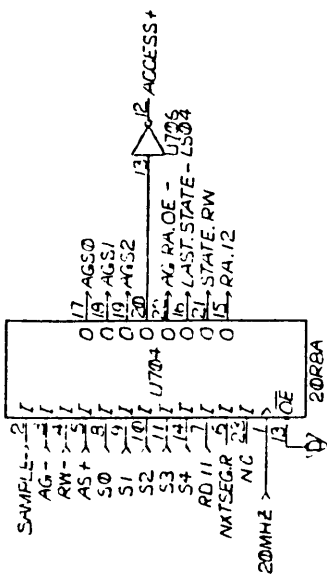
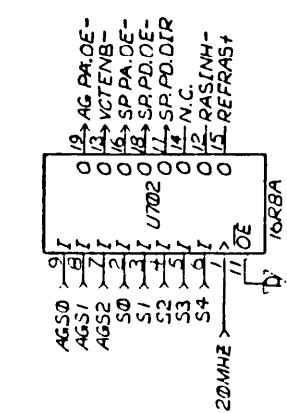
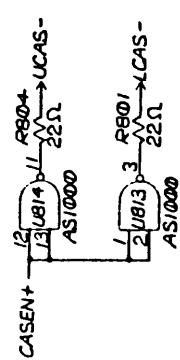
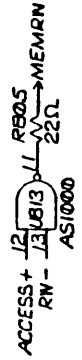
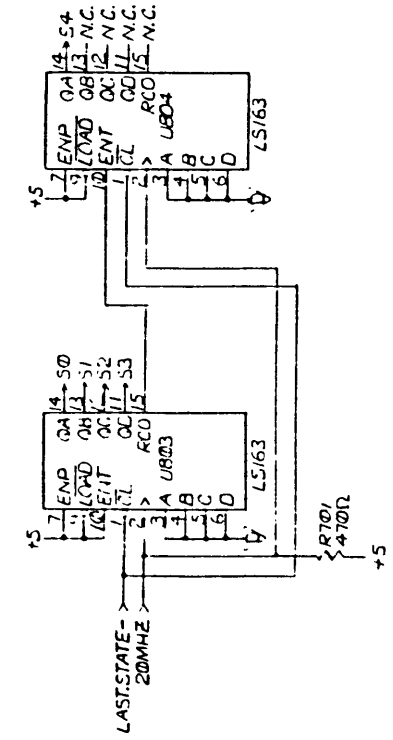
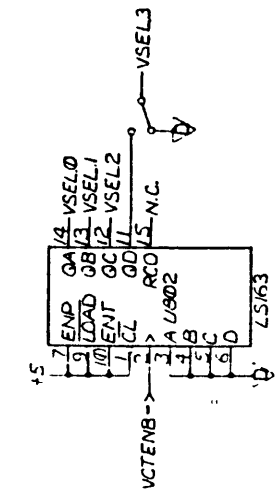
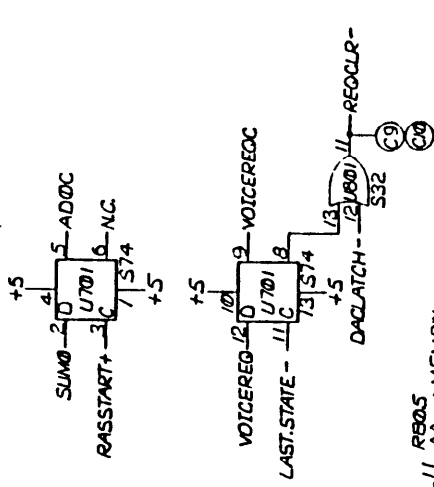
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OBERHEIM-DIV OF ECC DEV. CORP.

-SCHEMATIC-
 DPX-1 DIGITAL BOARD

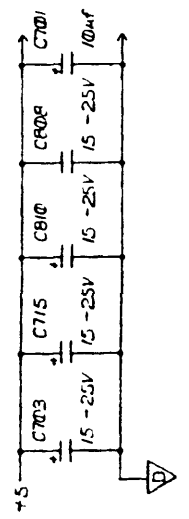
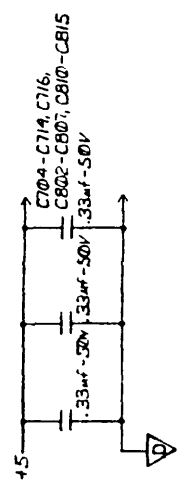
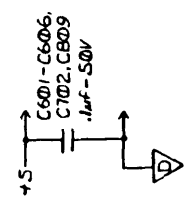
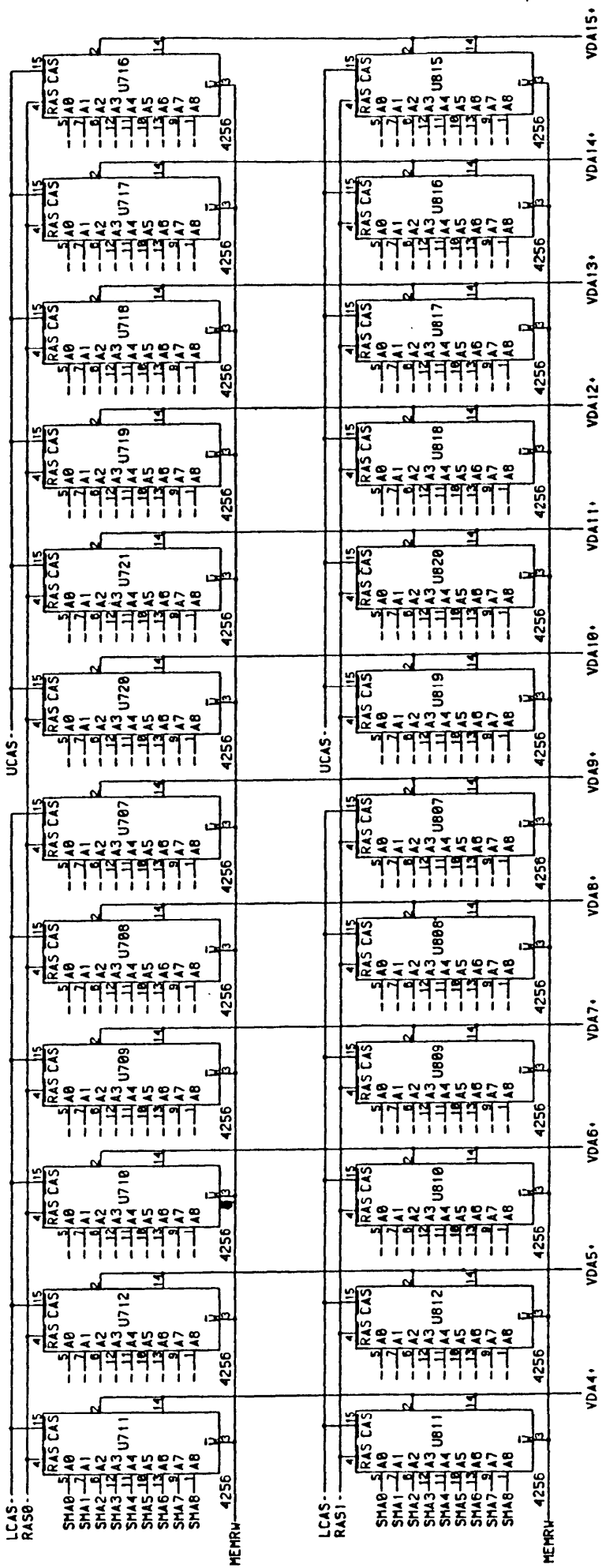
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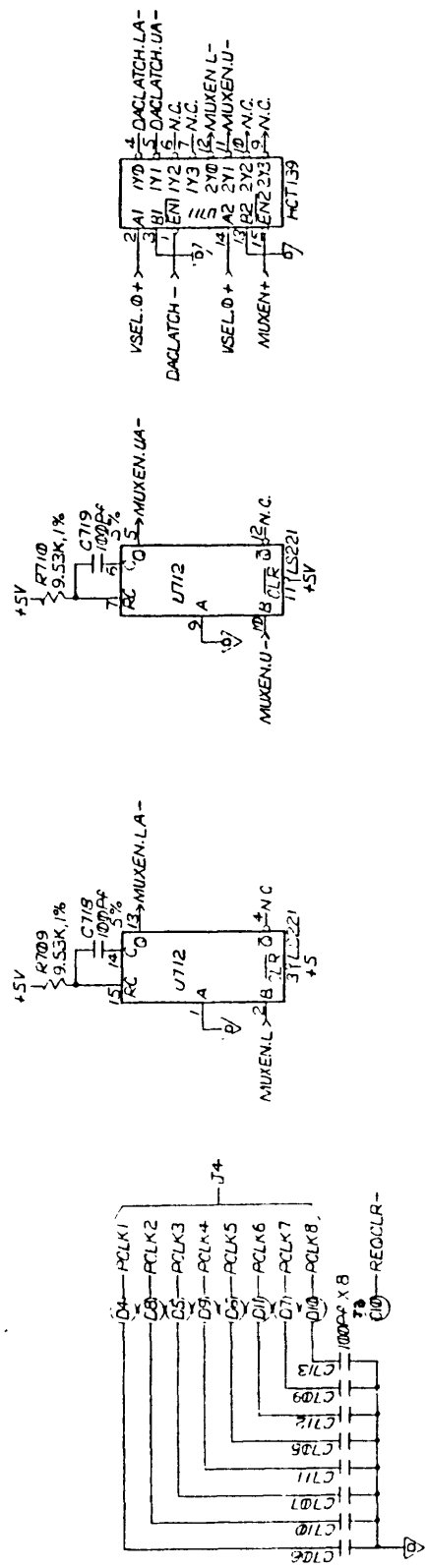
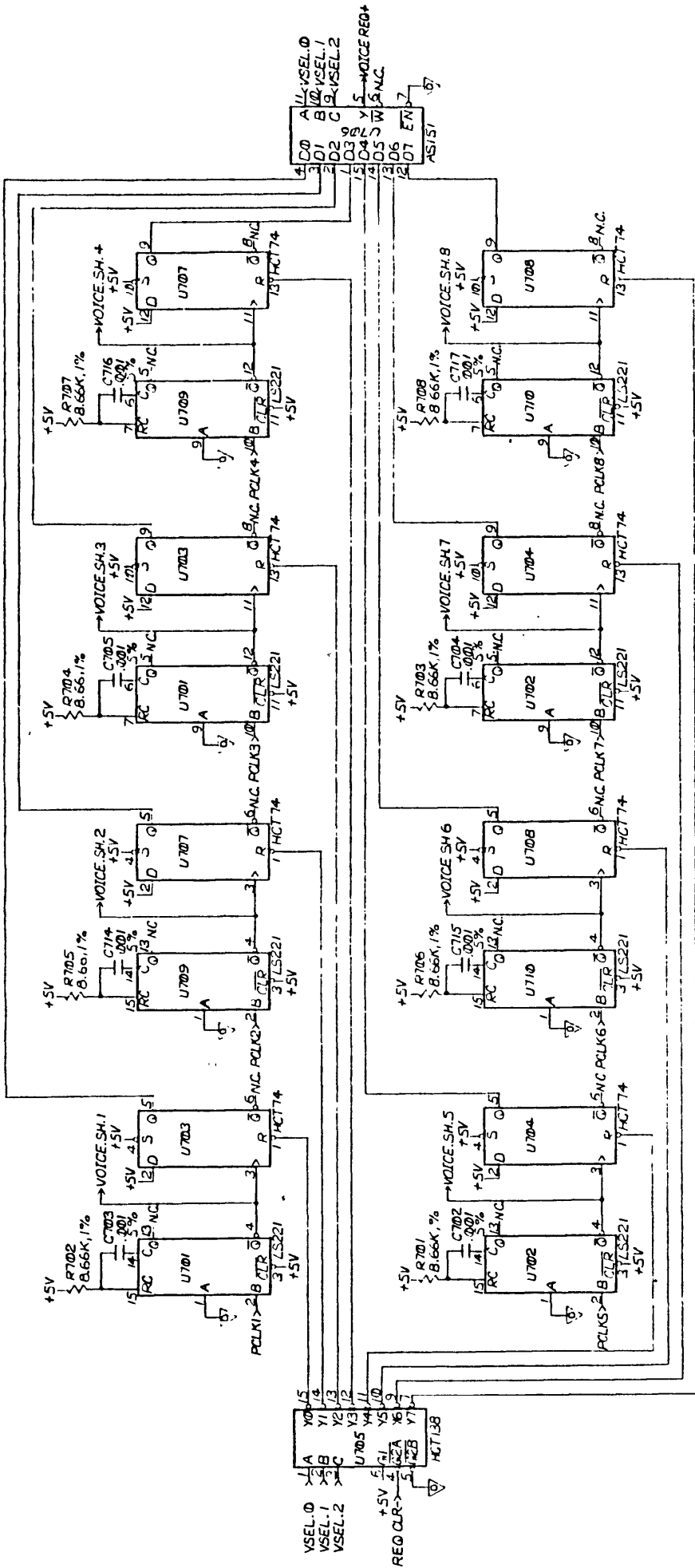
214

J.R.



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 - SCHEMATIC -
 DPX-1 DIGITAL BOARD
 SHEET 6 OF 7
 J.R.
 2/14

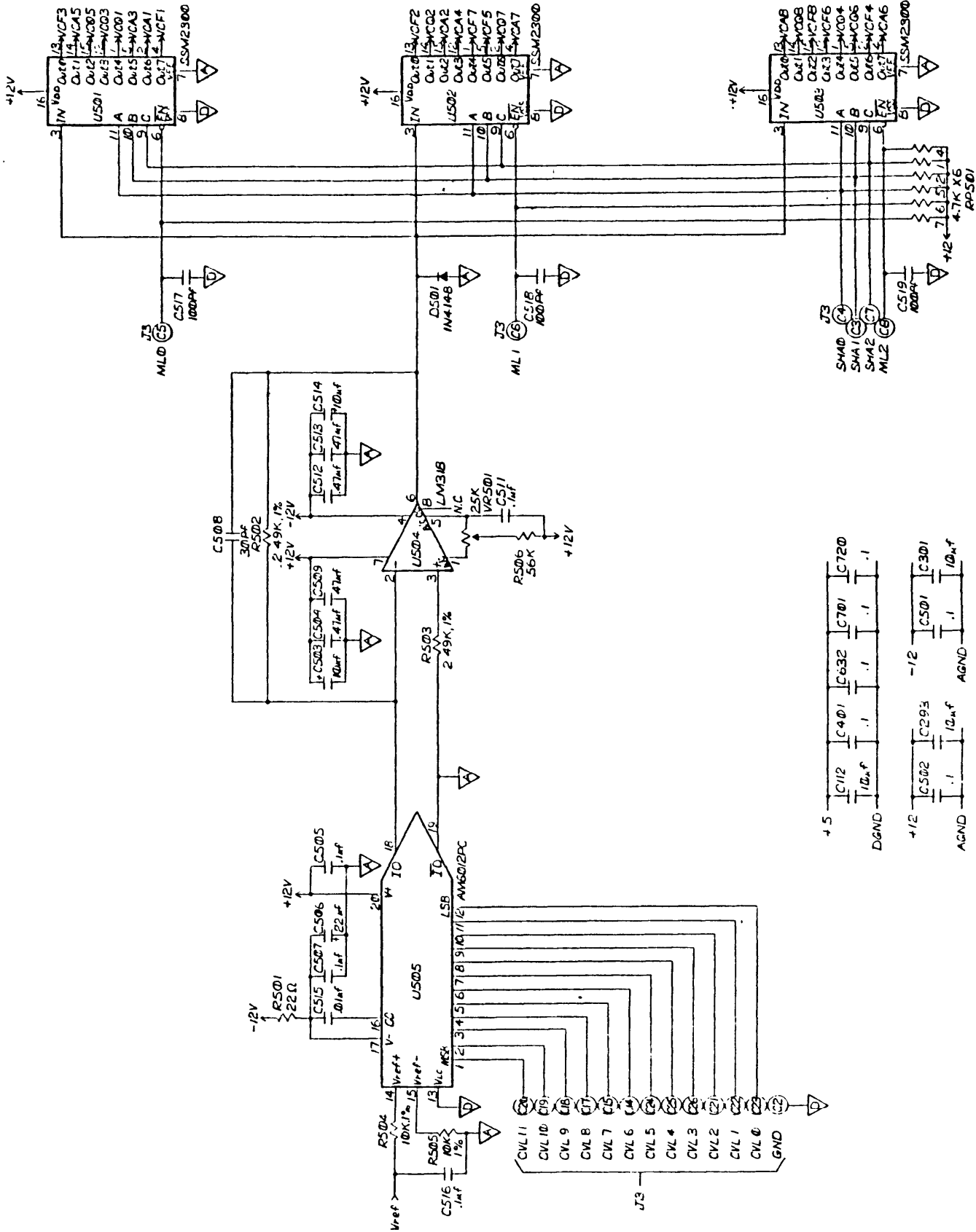




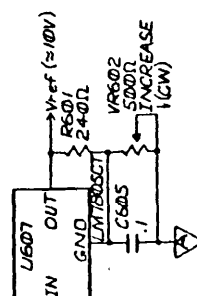
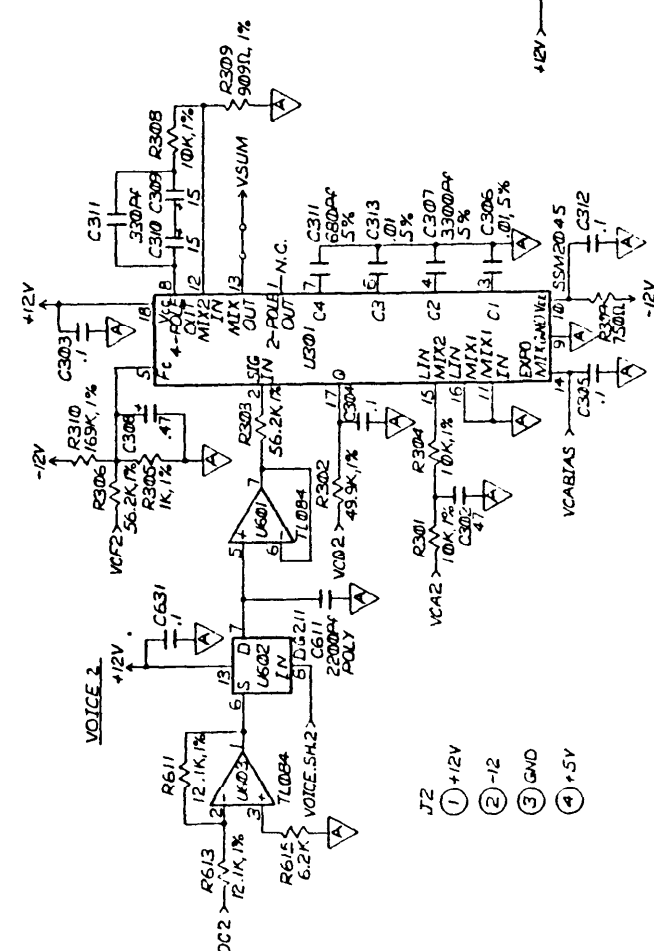
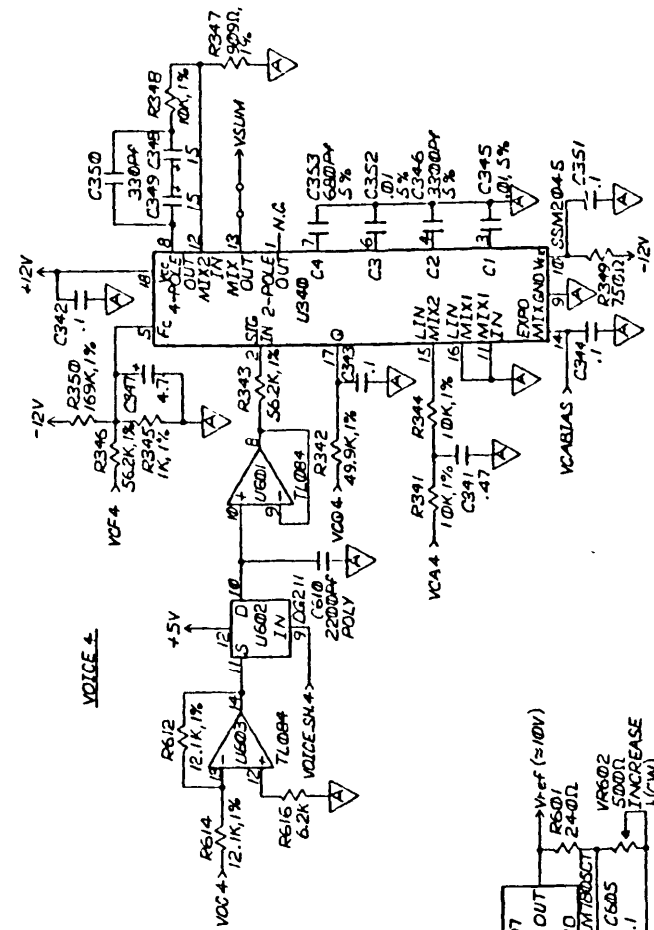
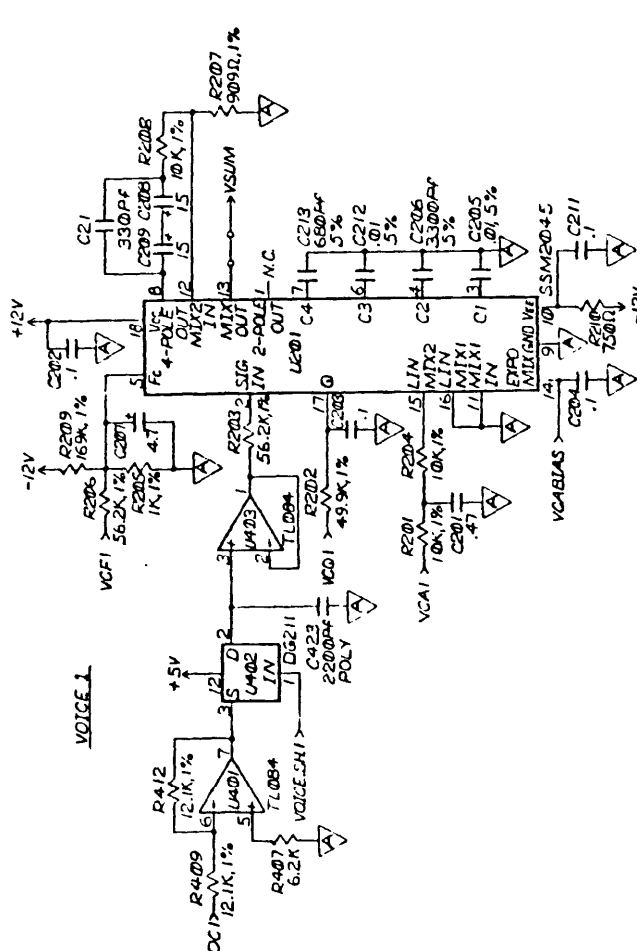
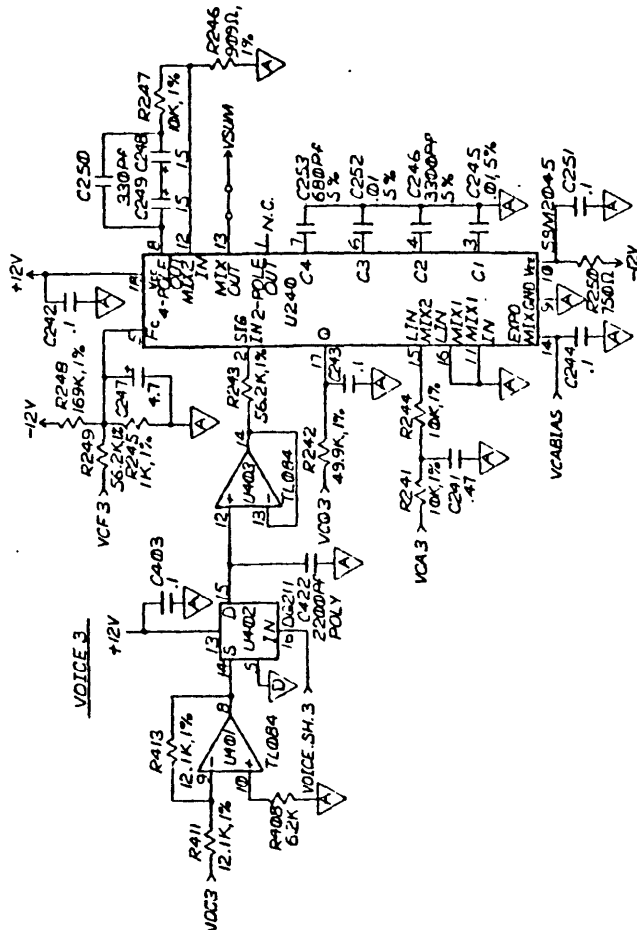
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 DPX-1 ANALOG BOARD

U/R	REVISION	DATE	SHEET	J.R.
A	INITIAL RELEASE		7 OF 8	

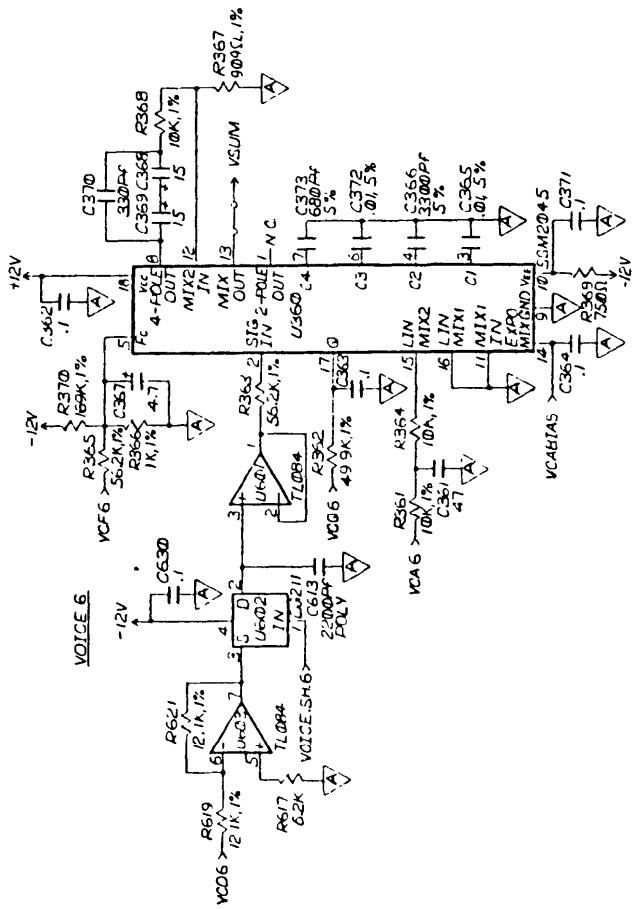
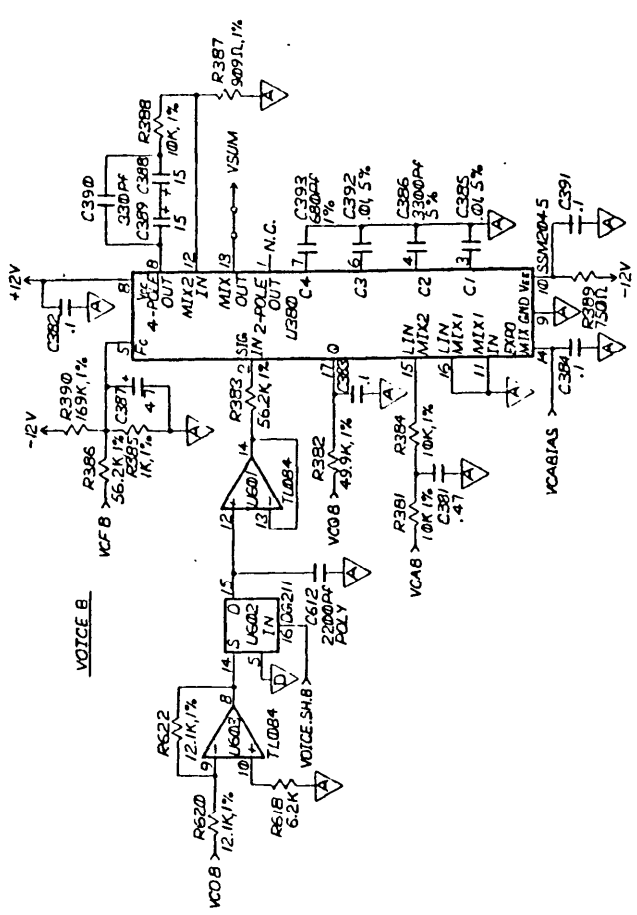
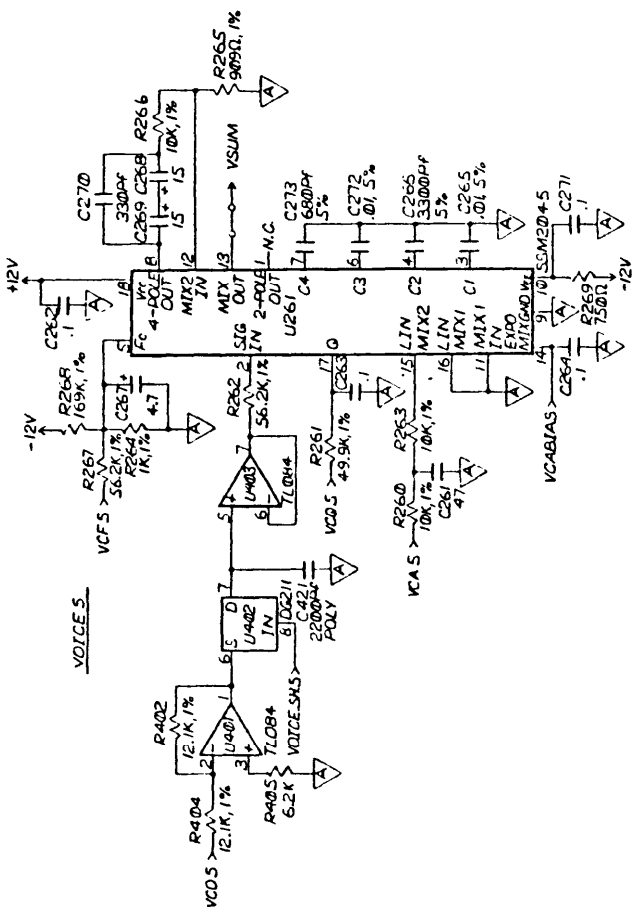
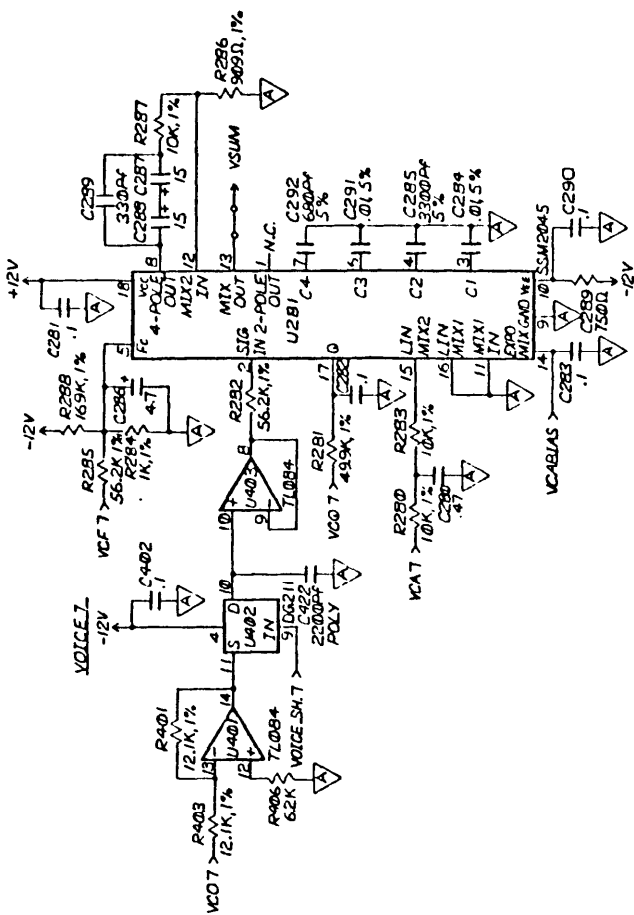
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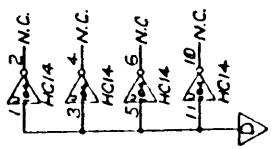
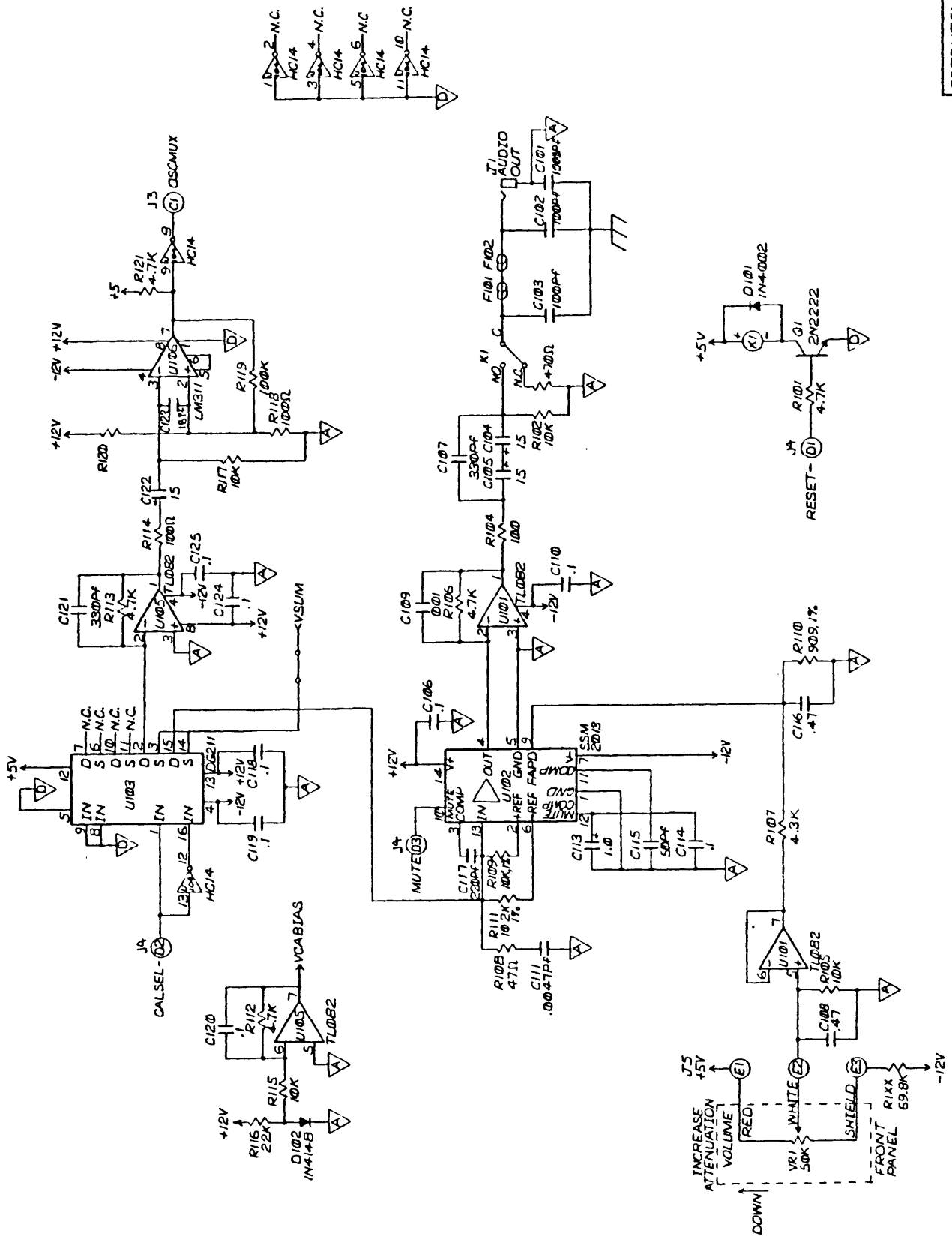


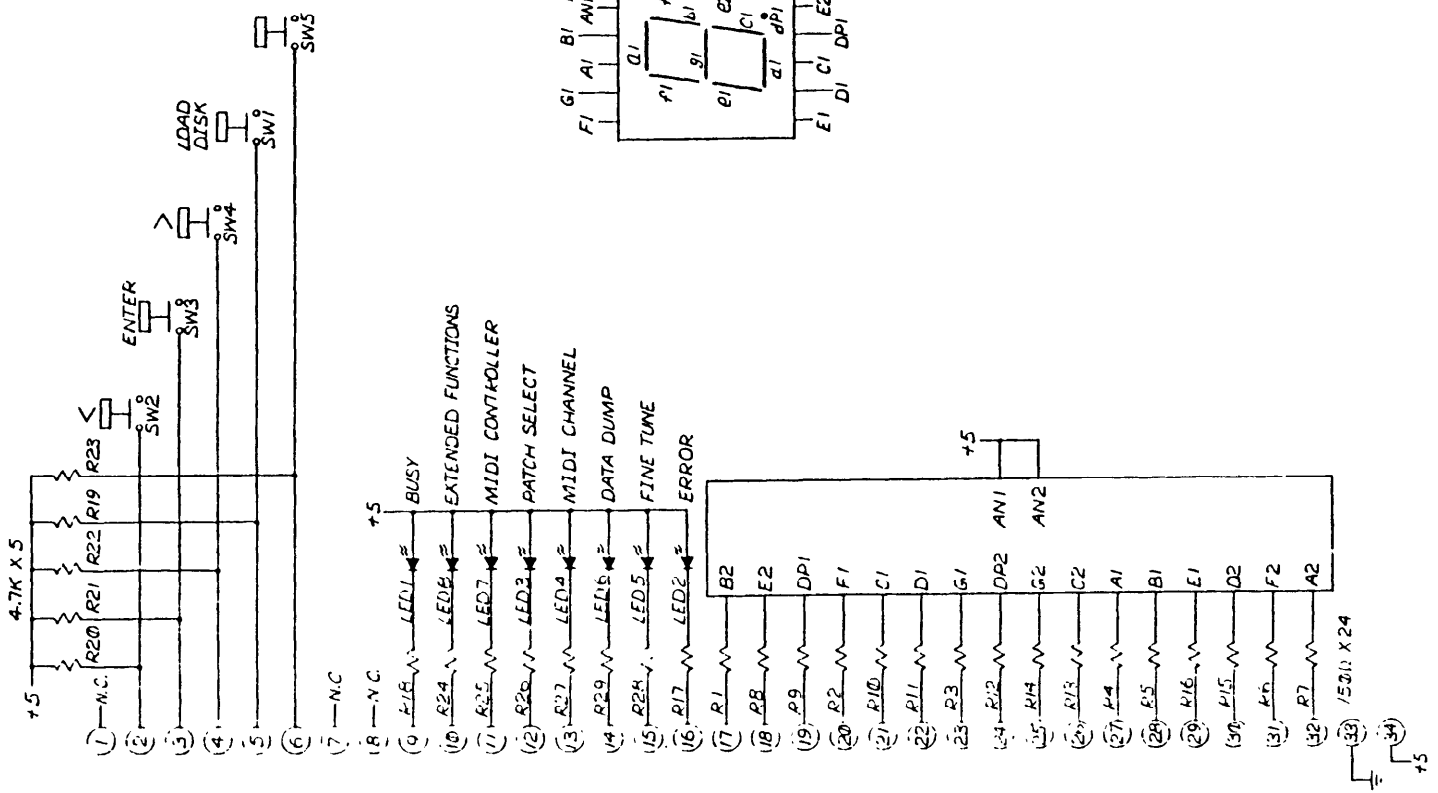
+5	C112	C401	C632	C701	C720
DGND	10nF	.1	.1	.1	.1
+12	C502	C293	-12	C501	C301
AGND	.1	10nF	AGND	.1	10nF



- J2
 ① +12V
 ② -12
 ③ GND
 ④ +5V







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 DPX-1 FRONT PANEL

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 J.T.R.
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A Division of ECC Development Corporation

ECC/Oberheim Customer Services
Los Angeles, CA 90064

February 23, 1987

DPX-1 ECOs 1102 through 1106 Serial Number Listing

In order to avoid confusion when implementing the attached ECOs, and also to prevent servicing units that already have these changes installed, refer to the following Serial Numbers before the unit is serviced:

1. ECOs 1102 through 1106 were implemented into production units as of February 4, 1987 starting with DPX-1 Serial Number "W70309". Therefore, all DPX-1s Serial Number "W70309" and later have been retrofitted with these revisions.
2. DPX-1s with Serial Numbers "W70308" and earlier require these changes, with the following exceptions which have been updated at the factory:

W65205	W70107	W70202	W70301
	W70108	W70204	W70302
		W70205	W70303
		W70206	W70302
		W70207	W70305
		W70208	W70307
		W70209	



Oberheim.

A Division of ECC Development Corporation

ECC/Oberheim Customer Services
Los Angeles, CA 90064

May 5, 1987

Service Center Memo: DPX-1 Engineering Changes + Prommer Service Bulletin

Dear ECC/Oberheim Service Center:

We've made a few more changes to the DPX-1 Digital Sample Player since our last correspondence, and the related ECOs are included in this package. Also included is a Service Bulletin for the Prommer EPROM Programmer that corrects for intermittent Trigger Input operation.

Briefly, the current batch of changes can be summed up like this:

1. ECO 1107 – Disk Read operation for both drives is improved with this resistor value. All field units should have this change implemented with the exception of DPX-1s with serial numbers listed at the bottom of the ECO document.
Reimbursement: 1/4 hour for Warranty units.
2. ECO 1108 – Software Revision 1.3. This Version corrects for a few operational irregularities discovered in previous versions and adds three new features as described in the accompanying Owner's Manual Addendum. Keep this copy for your files as we will include an addendum with each update kit shipped. Be sure to give the copy from the kit to the customer when the unit is picked up at your facility. We are offering this update free of charge to Warranty DPX-1 owners.
Reimbursement: 1/2 hour for Warranty units.
3. ECO 1109 – IC value replacement to improve timing margins. Repair field DPX-1s only if needed.
Reimbursement: 1/4 hour for Warranty units.
4. ECO 1110 – Addition of three electrolytic capacitors to the DPX-1's analog PCB to reduce the power supply ripple feed through to the audio output. Install only if necessary.
Reimbursement: 1 hour for Warranty units.
5. ECO 1111 – Capacitor change to reduce audible CV feed through on final VCA. Repair field DPX-1s only if needed.
Reimbursement: 1/2 hour for Warranty units.
6. SB 1201: Prommer – This Service Bulletin documents a capacitor addition for units that exhibit intermittent operation of the Trigger Input, or double triggering if a footswitch closure is used to trigger the Prommer. Repair field units only if needed.
Reimbursement: 1/2 hour for Warranty units.

Call us if you need more information.

Sincerely,

David M. Bertovic
ECC/Oberheim Customer Services

MAY 26 1987

Oberheim Service News

Summary Notes for Accompanying Service Documents

ECC/Oberheim Customer Services
Los Angeles, CA 90064

August 18, 1987
Vol.1, No.1

DPX-1 Revisions

The evolution of the DPX-1 continues as the Customer Services Department announces a few more Engineering Changes for this product. We are also issuing a series of Service Bulletins for the DPX-1, included in this package and summarized below:

1. ECO 1112 – Capacitor change to improve the stability of U102. Do not retrofit in field – this ECO is sent for your reference only and simply documents this change to the circuitry.
Reimbursement: N/A.

2. ECO 1113 – Software Revision 1.4. This Version corrects for a few operational irregularities discovered in Version 1.3. The new features implemented by version 1.3 are, of course, included in 1.4 as well. We will include an addendum with each update kit shipped. Be sure to give the copy from the kit to the customer when the unit is picked up at your facility. We are offering this update at no charge to Warranty DPX-1 owners. Retro-fit all units in the field.
Reimbursement: 1/2 hour for Warranty units.

3. ECO 1114 – Drawing correction only. Since the service documentation for the DPX-1 will not be published, this ECO is not included with this package. We thought we'd mention this now so that when the next batch of ECOs is sent, you'll know beforehand that there will be a gap in the sequence of ECO numbers.
Reimbursement: N/A.

4. SB 1101 – Calls for particular brands of ICs to be used when correcting for the symptom of audio leakage during power up. Retro-fit in field only if needed.
Reimbursement: 1/2 hour for Warranty units.

5. SB 1102 – Calls for particular brands of ICs to be installed when correcting for the 74LS221s

not triggering reliably. Retro-fit in field only if needed.

Reimbursement: 1/2 hour for Warranty units.

6. SB 1103 – Calls for particular brands of ICs to be installed when correcting for some disks not sustaining on certain areas of the keyboard. Retro-fit in field only if needed.

Reimbursement: 1/2 hour for Warranty units.

7. SB 1104 – Calls for a particular date code of IC 82C54 to be installed when correcting for intermittent popping in the DPX-1 stock Prophet 2000 disk. Retro-fit in field only if needed.

Reimbursement: 1/2 hour for Warranty units.

8. SB 1105 – Calls for particular brands of ICs to be installed when correcting for possible intermittent audio noise when the DPX-1 is powered on. Retro-fit in field only if the user complains of this symptom.

Reimbursement: 1/2 hour

We are also including the first Service Bulletin for the Matrix-6 and Matrix-6R Rack mount synthesizers. There have been sporadic reports from the field of tuning drift of these two units which is corrected in the accompanying Service Bulletin:

9. SB 901 – Replaces six (6) ceramic disk capacitors in the HFO circuits with mica type. Retro-fit in field only if needed.

Reimbursement: 1/2 hour for Warranty units.

As always, you can call us if you need more information, or assistance in implementing any of these changes.

ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part No. 722120	ECO NUMBER 1102
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EFFECTIVITY REASON FOR CHANGE

- AS REQUIRED IN TEST
- FUTURE PRODUCTION
- RETROFIT PRODUCTION & INVENTORY
- RETROFIT IN FIELD AS NEEDED
- DRAWING CORRECTION ONLY
- PARTS PURCHASING
- _____

Lower power dissipation.

ECO 1102 – Page 1 of 1.

WRITTEN BY: T.E.O.	DATE 1.29.87	CHECKED BY: <i>JSZ</i>	DATE 1-29-87	APPROVED BY: <i>[Signature]</i>	DATE 1/29/87
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DESCRIPTION

1. Remove and discard black anodized heat sink.
2. Replace U702 and U705 with MMI PAL16R8B-2CN.
3. Replace U703 and U704 with TIBPAL20R8-15CNT.

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Corporate Offices: 11650 W. Olympic Blvd., Los Angeles, CA 90064 (213) 479-4948

Factory: 2230 S. Barrington Ave., Los Angeles, CA 90064 (213) 479-4948



Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part # 722120	ECO NUMBER 1103
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EFFECTIVITY	REASON FOR CHANGE
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- AS REQUIRED IN TEST
- FUTURE PRODUCTION
- RETROFIT PRODUCTION & INVENTORY
- RETROFIT IN FIELD AS NEEDED
- DRAWING CORRECTION ONLY
- PARTS PURCHASING
- _____

Improve 5 1/4" disk drive timing.

ECO 1003 – Page 1 of 1.

WRITTEN BY: I. Frank	DATE 1.30.87	CHECKED BY: 	DATE 2-6-87	APPROVED BY: 	DATE 2/6/87
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DESCRIPTION

Change capacitor C101 from a 100pF 20% (Part #157005) to a 100 pF 5% (Part #157066).

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Factory: 2230 South Barrington Avenue, Los Angeles, CA 90064 (213) 479-4948



Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 5 1/4" Disk Drive - Part #200001	ECO NUMBER 1104
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> PARTS PURCHASING	To decrease loading on motor line of 5 1/4" Disk Drive. Affects Toshiba drive assemblies only.
	ECO 1104 - Page 1 of 1.

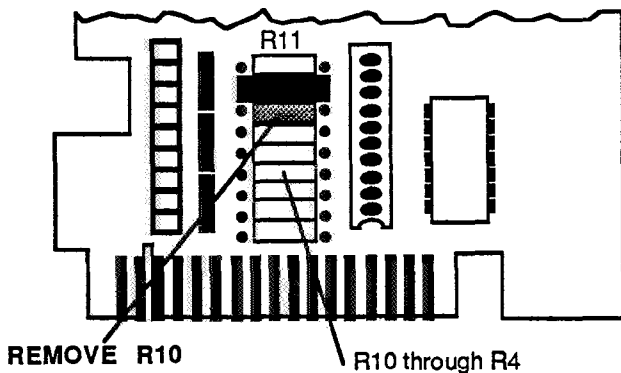
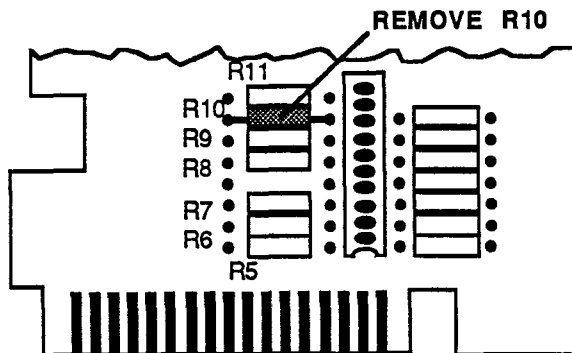
WRITTEN BY: T.E.O.	DATE 1.30.87	CHECKED BY: <i>TED</i>	DATE 2.6.87	APPROVED BY: <i>JSC</i>	DATE 2/4/87
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DESCRIPTION

Remove resistor R10 (150Ω) from the 5 1/4" disk drive's PCB according to the instructions below and the accompanying diagrams.

PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel - three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.
3. With the DPX-1 placed on a level surface so that you are facing it from the rear, locate the 34-conductor ribbon cable that links the two disk drives to the processor board. Carefully remove the connector that is inserted into the 3 1/2" drive and move it to one side. This will permit you to view the exposed section of the 5 1/4" drive's PCB.
4. Carefully de-solder resistor R10 and remove it from the board. It may then be discarded. Refer to the illustration below for proper identification of this component. The diagrams refer to two different versions of the Toshiba 5 1/4" disk drive. One of these drawings is relevant to the unit you are updating.
5. Replace the ribbon cable removed in Step #3.
6. Replace and secure the unit's cover removed in Step #2. Replace the AC cable and power the unit on. Check the unit for proper operation.



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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Analog PCB – Part #722210	ECO NUMBER 1105
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input checked="" type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Preparation of the DPX-1 analog circuitry for the optional installation of Individual Voice Outputs. ECO 1105 – Page 1 of 2. Document Part #950077

WRITTEN BY: M. Chaney/D. Bertovic	DATE 2.5.87	CHECKED BY: <i>TAD</i>	DATE 2.6.87	APPROVED BY: <i>JSL</i>	DATE 2/6/87
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DESCRIPTION

Install 13-conductor cable assembly to DPX-1's analog board according to the instructions and diagram below.

PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel – three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.
3. With the DPX-1 resting on a level surface and facing it from the rear, remove four (4) mounting screws that secure the digital PCB (the top board) to the chassis – three (3) screws are located along the edge of the board closest to you and the fourth screw is located in the center of the board, adjacent to C505 (35v 33µF electrolytic capacitor).
4. The digital board can now be lifted to its vertical position – it is mounted on the front by three hinged stand-offs. When lifting the board, pull the back blank plate slightly towards you so as to provide the board enough clearance from the captive nuts mounted on the plate.
5. Referring to the accompanying diagram, carefully cut the eight (8) printed circuit traces between the two solder pads on each Voice.
6. Solder the 13 leads of the cable assembly according to the accompanying chart. Each solder point exists as a solder pad on the printed circuitry so that each point can soldered cleanly, with no need to remove any of the green masking. When soldering the first eight Voice leads, be absolutely certain that each lead is attached to the pad that is closer to the front of the unit.
7. The cable's connector incorporates a jumper assembly that permits normal use of the DPX-1 without the Individual Voice Outputs installed. It is protected and secured by a section of black insulating tape that must not be removed until the future installation of the Individual Outputs kit.
8. Once the cable assembly has been installed, secure the cable to the center standoff with a cable tie, pushing the cable and connector towards the bottom board as far as possible. This will prevent possible electrical interference with the digital PCB, characterized by a significant hum in the audio output.
9. Lower the digital board and secure it with the bolts removed in step #3.
10. Before replacing the cover, plug in the AC cord, power the DPX-1 on and test the unit for proper operation. If no disk is available, select Patch 01 and press ENTER. This will recall a sawtooth waveform from ROM memory that can be used to test the integrity of the Mono Output. Patches 02, 03 and 04 produce sine waves of varying sample resolution and frequency.

Oberheim

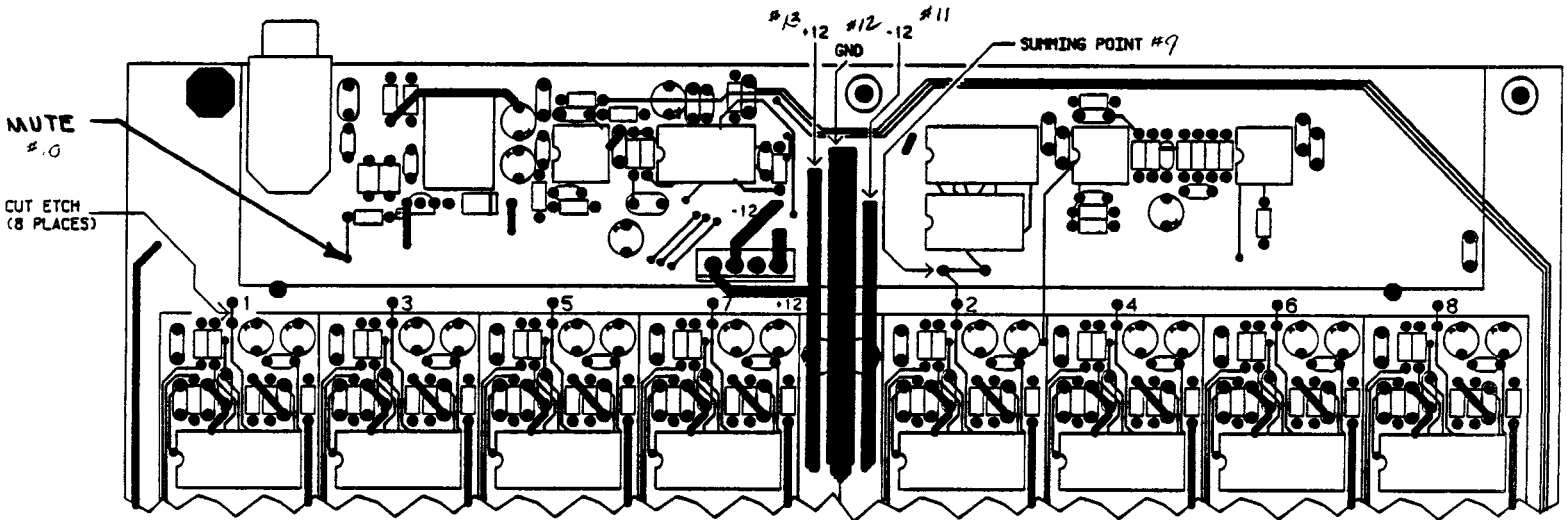
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10. (continued)

When testing the DPX-1, verify first that all eight Voices play. Then listen to the DPX-1's audio quality, making certain that it is free of distortion, noise and hum. If any discrepancies arise, check the installation Steps 5 through 8 to be sure that procedure was performed correctly.

11. After confirming that the DPX-1 performs as specified, replace the cover and screws removed in Step #2.

DPX-1 Voice Outputs Cable Update Kit – Part #770107.



Cable Lead/Solder Point Reference Chart

	Wire Color Coding	Solder Point
8 Voice Leads:	Brown	# 1
	Orange	# 3
	Grey	# 5
	Blue	# 7
	Violet	# 2
	Green	# 4
	Red	# 6
	Yellow	# 8
Summing Point:	White	# 9
Mute Line:	White/Green striped	#10
Power Supply Circuitry:	White/Red striped	#11 (-12 line)
	Black	#12 (ground)
	White/Black striped	#13 (+12 line)



Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120	ECO NUMBER 1106
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Software update – Revision 1.1. ECO 1106 – Page 1 of 1. Document Part #950076

WRITTEN BY: J. Letts	DATE 2.4.87	CHECKED BY: 	DATE 2-6-87	APPROVED BY: 	DATE 2/6/87
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DESCRIPTION/PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel – three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.
3. Remove 28-pin EPROM labelled "DPX 1.0 H" located in IC socket U413 and replace with EPROM labelled "DPX 1.1 H".
Remove 28-pin EPROM labelled "DPX 1.0 L" located in IC socket U310 and replace with EPROM labelled "DPX 1.1L".

When installing the new software chips, be sure that the orientation of the ICs is correct and that care is taken not to bend or break any of the pins.
4. Return old EPROMs to Oberheim.
5. Replace cover and mounting screws removed in Step 2.
6. Replace AC power cord removed in Step 1 and power the unit on. Check unit for proper operation.

Software Revision 1.1 Update Kit Part #770106.

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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120	ECO NUMBER 1107
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input checked="" type="checkbox"/> AS NEEDED* <input type="checkbox"/> DRAWING CORRECTION ONLY <input checked="" type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Increase reliability of disk read operation by improving rise time of READ DATA signal from both disk drives.
ECO 1107 – Page 1 of 1.	

WRITTEN BY: J. Letts	DATE 3.18.87	CHECKED BY: <i>TAD</i>	DATE 3-18-87	APPROVED BY: <i>SSL</i>	DATE 3/18/87
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DESCRIPTION/PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel – three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.
3. Locate and remove resistor R405: 4.7KΩ 1/8W 5% (Part #473472).
4. Install a 470Ω 1/8W 5% resistor as replacement (Part #473471).
5. Replace cover and mounting screws removed in Step 2.
6. Replace AC power cord removed in Step 1 and power the unit on. Check unit for proper operation.

* All DPX-1 field units are affected by this change with the exception of the following serial numbers, which were updated at the factory:

W70723	W71011	W71014
W70956	W71012	through
W70970		W71029

DPX-1 units with serial number W71101 and later have had this change implemented in production.

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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120	ECO NUMBER 1108
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Software update, Version 1.3. ECO – Page 1 of 1. Document Part #950082

WRITTEN BY: J. Letts	DATE 4.9.87	CHECKED BY: 	DATE 4-10-87	APPROVED BY: 	DATE 4/14/87
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DESCRIPTION/PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel – three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.
3. Remove two (2) EPROMs labelled "DPX-1 1.1 H" (located at U413) and "DPX-1 1.1 L" (located in U310). Return these chips to ECC/Oberheim.
4. Install EPROM labelled "DPX-1 1.3 H" into location U413. Install EPROM labelled "DPX-1 1.3 L" into location U310.
5. Replace cover and mounting screws removed in Step 2.
6. Replace AC power cord removed in Step 1.
7. Be certain that no disk is in either of the drives and power the unit on. Select Preset #4, press ENTER and check unit for sine wave sound.

Refer to "DPX-1 Software Revision 1.3 Owner's Manual Addendum" (Oberheim Part #950083) for a full description of the changes and additions in this software.

DPX-1 Version 1.3 Update Kit – Part # 770109.

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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120	ECO NUMBER 1109
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input checked="" type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Improve timing margins to allow greater variance in parts in production. ECO 1109 – Page 1 of 1.

WRITTEN BY: J. Letts	DATE 4.9.87	CHECKED BY: <i>PM</i>	DATE 4-13-87	APPROVED BY: <i>JSL</i>	DATE 4/14/87
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DESCRIPTION

Replace IC 74LS244 (Oberheim Part #311031) in U610 with IC 74S244 or 74AS244 (same Oberheim Part #311049 for each).

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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Analog PCB – Part #722210	ECO NUMBER 1110
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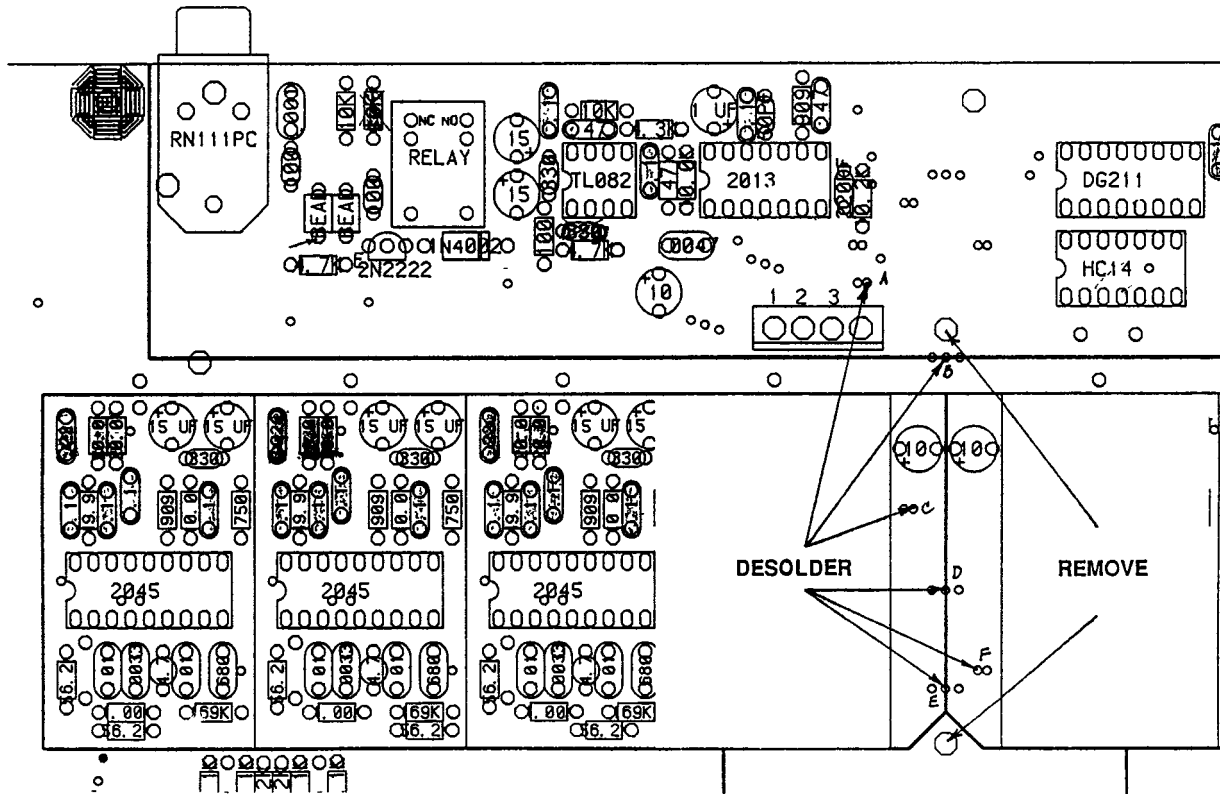
EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input checked="" type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Reduce power supply ripple feed through to audio output.
ECO 1110 – Page 1 of 3.	

WRITTEN BY: J. Letts	DATE 4.16.87	CHECKED BY: TAD	DATE 5.12.87	APPROVED BY:	DATE
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DESCRIPTION/PROCEDURE:

Add two (2) 4700 μ F, 16V radial electrolytic capacitors (Oberheim Part #151072) and one (1) 4700 μ F, 6.3V radial electrolytic capacitor (Oberheim Part #151073). Refer to the diagrams below and on the next page, following the accompanying procedure.

REAR OF DPX-1



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— PROCEDURE —

This change involves the partial disassembly of the DPX-1 by removing both upper and lower PCBs, installing three (3) electrolytic capacitors, reassembly and test for proper operation. Please follow the procedure outlined below exactly as stated.

PREPARATION –

1. Turn off unit and remove power cord.
2. Remove eleven (11) machine screws that secure the cover:
 - three (3) on each of the left and right sides of the unit along the bottom edge
 - five (5) on the back panel – three (3) along the bottom edge
two (2) near the upper edge near the "DPX-1" logo silkscreen.

The cover can now be lifted off.

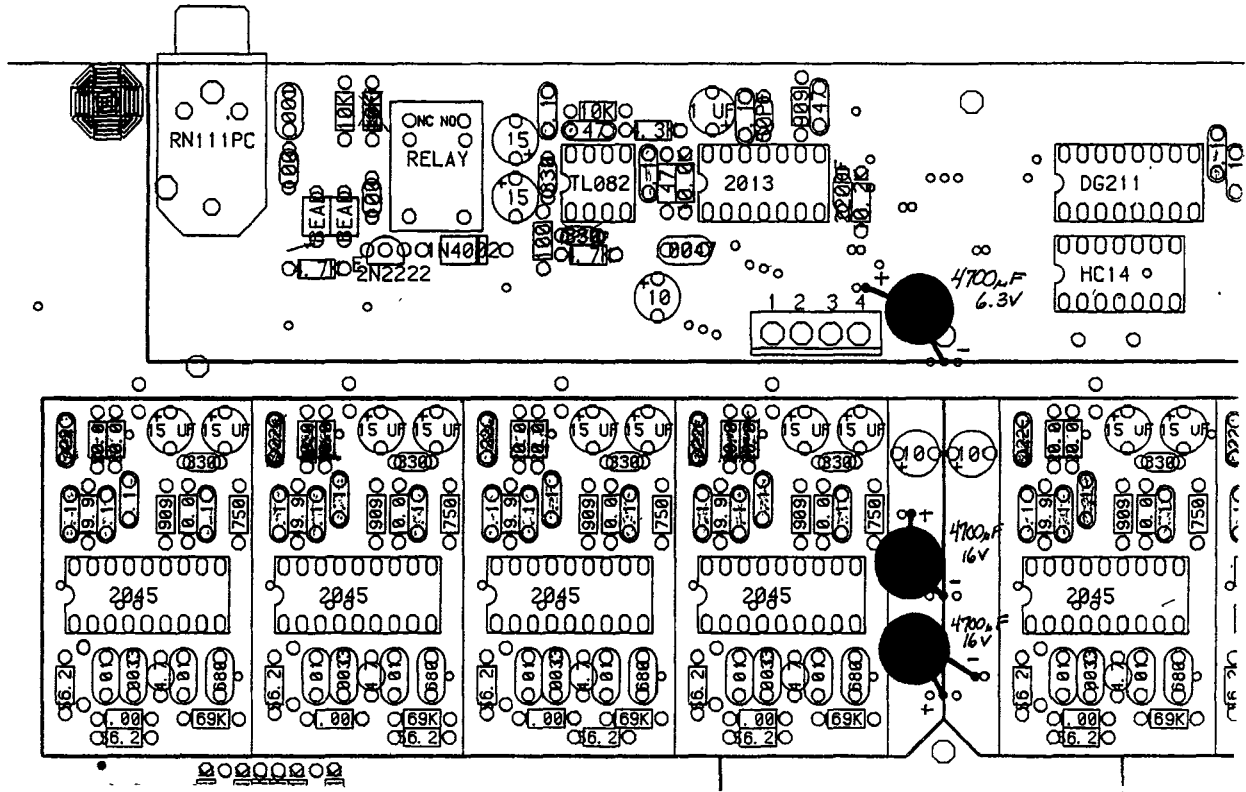
3. Remove the four (4) machine screws that mount the digital PCB to the lower board:
 - three (3) along the front edge of the PCB
 - one (1) near the center of the board, adjacent to capacitor C505.
4. Lift the digital board to its upright (vertical) position.

LOWER PCB REMOVAL –

5. Before the analog board can be removed, disconnect the 26-conductor and the 40-conductor ribbon cables that connect the digital PCB to the analog PCB (the lower circuit board).
6. Disconnect the 4-conductor cable assembly that connects the analog board to the power supply. Disconnect the 2-conductor cable assembly that connects the analog board to the volume control PCB.
7. Remove the analog board by removing:
 - three (3) standoffs along the rear edge of the board
 - one (1) standoff near the center of the board
 - three (3) machine screws along the front edge of the board.

ANALOG PCB PREPARATION –

8. Referring to the diagram on Page 1, desolder the six (6) feed through pads on the analog PCB. Use a de-soldering tool to completely clean out the pad hole.
9. Again referring to the diagram on Page 1, remove the two test point terminals on the analog board.
10. Turn the analog board over, exposing its non-component side. Gently scrape away a small section of the green solder mask in a small area of the circuit trace around each of the six feed throughs. Use a precision knife or similar tool. This will provide a sufficient area of conductance for solder flow when the capacitors are installed.



CAPACITOR INSTALLATION –

11. Turn the analog board over again, exposing its component side. Referring to the diagram above, install the three electrolytic capacitors according to the following chart:

CAPACITOR VALUE	POSITIVE LEAD	NEGATIVE LEAD
4700 µF, 6.3V	Feed through "A"	Feed through "B"
4700 µF, 16V	Feed through "C"	Feed through "D"
4700 µF, 16V	Feed through "E"	Feed through "F"

12. When installing each capacitor, push the leads all the way through the pads so that the capacitor rests as close to the surface of the board as possible. Solder each capacitor in place from the underside of the board and trim the excess leads as close to the board's surface as possible.
13. Be careful to position the capacitors such that their leads do not touch any other part of the circuitry and that there is enough clearance with the other hardware on the board. This is especially critical with the 6.3V capacitor as it is positioned very close to the 4-conductor power supply connector.
14. Secure the capacitors with cable ties. The 6.3V capacitor should be tied to the power supply connector and the two 16V capacitors can be strapped to each other.
15. Check your work!
16. Re-install the analog PCB by replacing the mounting hardware removed in Step 7. Then re-install the ribbon cables removed in Step 6.
17. Re-connect the digital board to the analog board by re-installing the ribbon cables removed in Step 5. Re-install the digital PCB by replacing the mounting hardware removed in Step 4. Then re-install the ribbon cables removed in Step 3.
18. Check your work!
19. Before replacing the cover, power the DPX-1 on and test for proper operation. If operation is OK, replace the cover and hardware removed in Step 2.



Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Analog PCB – Part #722210	ECO NUMBER 1111
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input checked="" type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Reduce audible CV feed through when en/disabling MUTE on final VCA.
ECO 1111 – Page 1 of 1.	

WRITTEN BY: J. Letts	DATE 4.16.87	CHECKED BY: <i>PM</i>	DATE 4-17-87	APPROVED BY: <i>JSL</i>	DATE 4/17/87
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DESCRIPTION/PROCEDURE:

Change capacitor C113 from a 1 μ F, 25V radial (Oberheim Part #151030) to a 6.8 μ F, 35V electrolytic (Oberheim Part #151023).

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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Analog PCB – Assembly #722210 Schematic #2205	ECO NUMBER 1112
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EFFECTIVITY	REASON FOR CHANGE
<input checked="" type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input type="checkbox"/> RETROFIT IN FIELD <input type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input checked="" type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	To increase the stability of U102 (IC "SSM 2013").
ECO 1112 – Page 1 of 1.	

WRITTEN BY: I. Frank	DATE 6.1.87	CHECKED BY: <i>PM</i>	DATE 6.1.87	APPROVED BY: <i>JSL</i>	DATE 6/2/87
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DESCRIPTION/PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel – three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.
3. Remove the four (4) machine screws that secure the top (digital) circuit board: three along the rear edge and one in the center of the board, adjacent to capacitor C505.
4. The digital board may now be lifted to its vertical position.
5. Change capacitor C115 from a 50pF ceramic disk capacitor (Oberheim Part #157009) to a 220pF ceramic disk capacitor (Oberheim Part #157065).
6. Reposition the digital board and replace the mounting screws removed in Step 3.
7. Replace cover and mounting screws removed in Step 2.
8. Replace AC power cord removed in Step 1 and power the unit on. Check unit for proper operation.

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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120	ECO NUMBER 1113
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EFFECTIVITY	REASON FOR CHANGE
<input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	Software update – Version 1.4. ECO 1113 – Page 1 of 1. Document Part #950087.

WRITTEN BY: J. Letts	DATE 6.9.87	CHECKED BY: TAD 6.9.87	DATE	APPROVED BY: JSC	DATE 6/18/87
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DESCRIPTION/PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel – three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.
3. Remove 28-pin EPROM labelled "DPX-1 1.3 H" located in IC socket U413 and replace with EPROM labelled "DPX-1 1.4 H".

Remove 28-pin EPROM labelled "DPX-1 1.3 L" located in IC socket U310 and replace with EPROM labelled "DPX-1 1.4 L".
4. Return old EPROMs to Oberheim.
5. Replace cover and mounting screws removed in Step 2.
6. Replace AC power cord removed in Step 1 and power the unit on. Check unit for proper operation.

DPX-1 Software Revision 1.4 Update Kit – Oberheim Part #770110

Oberheim

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Oberheim ENGINEERING CHANGE ORDER

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120	ECO NUMBER 1117
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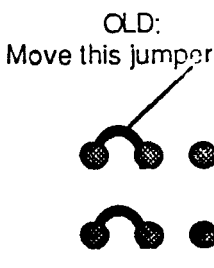
EFFECTIVITY <input type="checkbox"/> AS REQUIRED IN TEST <input checked="" type="checkbox"/> FUTURE PRODUCTION <input checked="" type="checkbox"/> RETROFIT PRODUCTION & INVENTORY <input checked="" type="checkbox"/> RETROFIT IN FIELD <input checked="" type="checkbox"/> AS REQUESTED BY CUSTOMER <input type="checkbox"/> PARTS PURCHASING <input type="checkbox"/> _____	REASON FOR CHANGE Software update – Revision 2.2. NON-WARRANTY. ECO 1117 – Page 1 of 1. Document Part #950094
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WRITTEN BY: C. Nakahara	DATE 1.22.88	CHECKED BY: <i>TAD</i>	DATE 1-22-88	APPROVED BY: <i>[Signature]</i>	DATE 1/26/88
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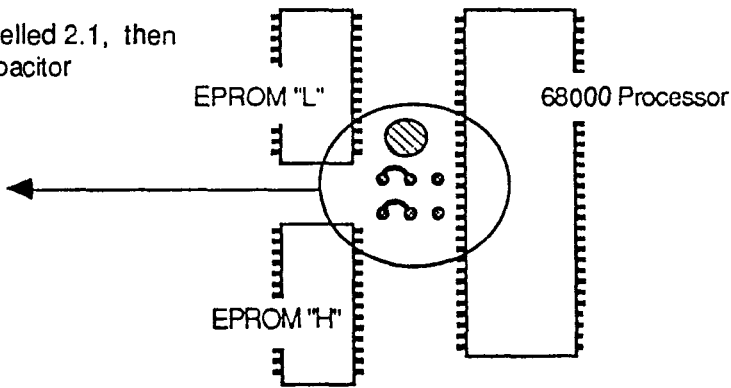
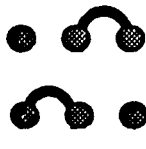
DESCRIPTION/PROCEDURE:

1. Turn unit off and remove power cord.
2. Remove 11 machine screws that secure the cover: three (3) on each of the left and right sides along the bottom edge, and five (5) on the back panel – three along the bottom edge and two near the upper edge adjacent to the "DPX-1" logo silkscreen. The cover can now be lifted off.

3. If the two 28-pin EPROMs are not labelled 2.1, then re-position the Jumper adjacent to capacitor C409 according to the diagram.



NEW:



4. Remove 28-pin EPROM labelled "DPX-1 2.1 H" (or possibly 1.4 H or 1.5 H) located in IC socket U413 and replace with EPROM labelled "DPX-1 2.2 H".

Remove 28-pin EPROM labelled "DPX-1 2.1 L" (or possibly 1.4 L or 1.5 L) located in IC socket U310 and replace with EPROM labelled "DPX-1 2.2 L".

5. Return old EPROMs to ECC/Oberheim.
6. Replace cover and mounting screws removed in Step 2.
7. Replace AC power cord removed in Step 1 and power the unit on. Check unit for proper operation.

DPX-1 Software Revision 2.2 Update Kit – Oberheim Part #770114.

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SERVICE BULLETIN ECC/Oberheim Customer Services

PRODUCT AFFECTED Matrix-6/Matrix-6R	DRAWINGS/ASSEMBLY AFFECTED Matrix-6 Voice PCB – Part #722035	S.B. NUMBER 901
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EFFECTIVITY	REASON FOR CHANGE
<input checked="" type="checkbox"/> REWORK IN FIELD: <input type="checkbox"/> AS REQUESTED BY CUSTOMER <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> _____	Improve tuning stability.

WARRANTY STATUS: <input checked="" type="checkbox"/> COVERED UNDER WARRANTY <input type="checkbox"/> NON-WARRANTY
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WRITTEN BY: T. Dunn	DATE 7.27.87	CHECKED BY: <i>Peter Munsan</i>	DATE 7.30.87	APPROVED BY: <i>TED</i>	DATE 7.30.87
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DESCRIPTION

To help reduce Matrix-6/Matrix-6R tuning drift, two capacitors in each of the three HFO (High Frequency Oscillator) circuits are changed from ceramic disk type to mica type.

PROCEDURE

1. Replace C38, C42 and C46 with 100 pF silver mica, 5% capacitors (Oberheim Part #157066).
2. Replace C39, C43 and C47 with 330 pF silver mica, 10% capacitors (Oberheim Part #157035).
3. After replacing all six capacitors, the HFOs must be recalibrated as described on Page 4 of the Matrix-6 Service Manual.

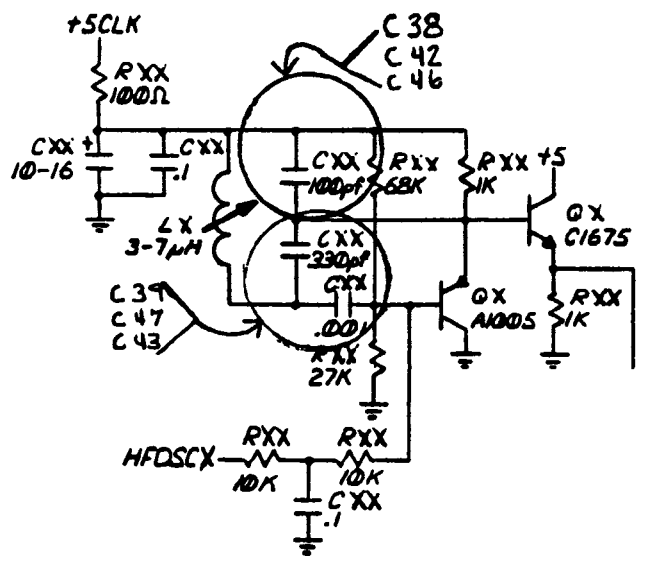


FIG. 1: One of three HFO circuits as depicted in the Matrix-6 Voice Board Schematic, Sheet 2 of 3.

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SERVICE BULLETIN ECC/Oberheim Customer Services

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120-I	SB NUMBER 1101
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EFFECTIVITY	REASON FOR CHANGE
<input checked="" type="checkbox"/> REWORK IN FIELD: <input type="checkbox"/> AS REQUESTED BY CUSTOMER <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> _____	Eliminate possibility of audio leakage through output during power up.
WARRANTY STATUS: <input checked="" type="checkbox"/> COVERED UNDER WARRANTY <input type="checkbox"/> NON-WARRANTY	SB 1101 – Page 1 of 1.

WRITTEN BY: P. Munson	DATE 3.24.87	CHECKED BY: <i>PM</i>	DATE	APPROVED BY: <i>ND</i>	DATE 7-87
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DESCRIPTION

If U412 is a 74F04 (Oberheim Part #311068), U410 cannot be an "SGS" or "Hitachi" brand 74LS74 (Oberheim Part #311021). When replacing, a "Motorola" or "SA" 74LS74 must be used.

The schematic diagrams identify a 74S04 in U412 which allows all brands of 74LS74 to be used in U410. Known good brands include:

- Hitachi
- Motorola
- Texas Instruments
- SA

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SERVICE BULLETIN ECC/Oberheim Customer Services

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Analog PCB – Part #722210	SB NUMBER 1102
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EFFECTIVITY <input checked="" type="checkbox"/> REWORK IN FIELD: <input type="checkbox"/> AS REQUESTED BY CUSTOMER <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> _____	REASON FOR CHANGE Hitachi and Mitsubishi 74LS221s do not trigger reliably when used in position U712 on Analog Board. This change corrects for the possibility of jitter or no signal at Pin 5 and/or Pin 13 output. SB 1102 – Page 1 of 1.
WARRANTY STATUS: <input checked="" type="checkbox"/> COVERED UNDER WARRANTY <input type="checkbox"/> NON-WARRANTY	

WRITTEN BY: P. Munson	DATE 6.19.87	CHECKED BY: <i>fm</i>	DATE	APPROVED BY: <i>[Signature]</i>	DATE 7-87
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DESCRIPTION

Use "Texas Instruments" or "Motorola" brand 74LS221 (Oberheim Part #311045) in U712 of Analog board.
Do not use:

"Hitachi" brand – causes no audio output.

"Mitsubishi" brand – can cause intermittent distortion on presets using oscillator for frequency.

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SERVICE BULLETIN ECC/Oberheim Customer Services

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB - Part #722120-I	S.B. NUMBER 1103
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EFFECTIVITY	REASON FOR CHANGE
<input checked="" type="checkbox"/> REWORK IN FIELD: <input type="checkbox"/> AS REQUESTED BY CUSTOMER <input checked="" type="checkbox"/> AS NEEDED	Some disks will not sustain on certain sections of the keyboard.
<input type="checkbox"/> DRAWING CORRECTION ONLY	
<input type="checkbox"/> _____	
WARRANTY STATUS: <input checked="" type="checkbox"/> COVERED UNDER WARRANTY <input type="checkbox"/> NON-WARRANTY	

WRITTEN BY:	DATE	CHECKED BY:	DATE	APPROVED BY:	DATE
T. Dunn	7.27.87	PM	7-30-87	TJD	7-30 '87

DESCRIPTION

Problem is caused by I.C. 74S189 (Oberheim Part #317019) located at U609.

This I.C. must not be a Texas Instruments brand manufactured in Germany.

Known good brand: National Semiconductor.

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SERVICE BULLETIN ECC/Oberheim Customer Services

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120-1	S.B. NUMBER 1104
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EFFECTIVITY	REASON FOR CHANGE
<input checked="" type="checkbox"/> REWORK IN FIELD: <input type="checkbox"/> AS REQUESTED BY CUSTOMER <input checked="" type="checkbox"/> AS NEEDED	To correct for intermittent popping in the stock DPX-1 factory disk of Prophet 2000/2002/2002+ sounds.
<input type="checkbox"/> DRAWING CORRECTION ONLY	
<input type="checkbox"/> _____	
WARRANTY STATUS: <input checked="" type="checkbox"/> COVERED UNDER WARRANTY <input type="checkbox"/> NON-WARRANTY	

WRITTEN BY: P. Munson	DATE 7.14.87	CHECKED BY: TAD	DATE 7.30.87	APPROVED BY: TAD	DATE 8.3.87
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DESCRIPTION

Early units of the DPX-1 may have been shipped with AMD (Advanced Micro Devices) I.C. 82C54 (Oberheim Part #312001) located at U501, U502 and U503. The problem described above occurs when this I.C. with a date code of 8637 is used. This particular date code has been determined to be incompatible with the circuit.

The intermittent popping will be alleviated when these three I.C.s are replaced with chips of a different date code. The popping is most noticeable in Preset 06 when playing the keyboard near the range of C3 to C4 and using the modulation lever or wheel.

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SERVICE BULLETIN ECC/Oberheim Customer Services

PRODUCT AFFECTED DPX-1	DRAWINGS/ASSEMBLY AFFECTED DPX-1 Digital PCB – Part #722120-1	S.B. NUMBER 1105
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EFFECTIVITY	REASON FOR CHANGE
<input checked="" type="checkbox"/> REWORK IN FIELD: <input checked="" type="checkbox"/> AS REQUESTED BY CUSTOMER <input type="checkbox"/> AS NEEDED	To eliminate possible intermittent audio noise when unit is powered on.
<input type="checkbox"/> DRAWING CORRECTION ONLY	
<input checked="" type="checkbox"/> <u>Affects DPX-1s with Version 1.4 software and earlier only.</u>	
WARRANTY STATUS: <input checked="" type="checkbox"/> COVERED UNDER WARRANTY <input type="checkbox"/> NON-WARRANTY	

WRITTEN BY: P. Munson	DATE 7.27.87	CHECKED BY: <i>TAD</i>	DATE 8.4.87	APPROVED BY: <i>TAD</i>	DATE 8.7.87
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DESCRIPTION

I.C. 74LS138 (Oberheim Part #311046) in U507 on Digital Board must not be a National Semiconductor brand.

Motorola and Hitachi brands work correctly. Note that the effectivity of this requirement is for DPX-1 units with Version 1.4 software and earlier.

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SERVICE BULLETIN ECC/Oberheim Customer Services

PRODUCT AFFECTED Prommer	DRAWINGS/ASSEMBLY AFFECTED Prommer Processor PCB – Part #770090 Schematic 2038 B, Page 5 of 5.	S.B. NUMBER SB 1201
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EFFECTIVITY	REASON FOR CHANGE
<input checked="" type="checkbox"/> REWORK IN FIELD: <input type="checkbox"/> AS REQUESTED BY CUSTOMER <input checked="" type="checkbox"/> AS NEEDED <input type="checkbox"/> DRAWING CORRECTION ONLY <input type="checkbox"/> _____	To correct for intermittent operation external Trigger Input, or double triggering when footswitch is used.

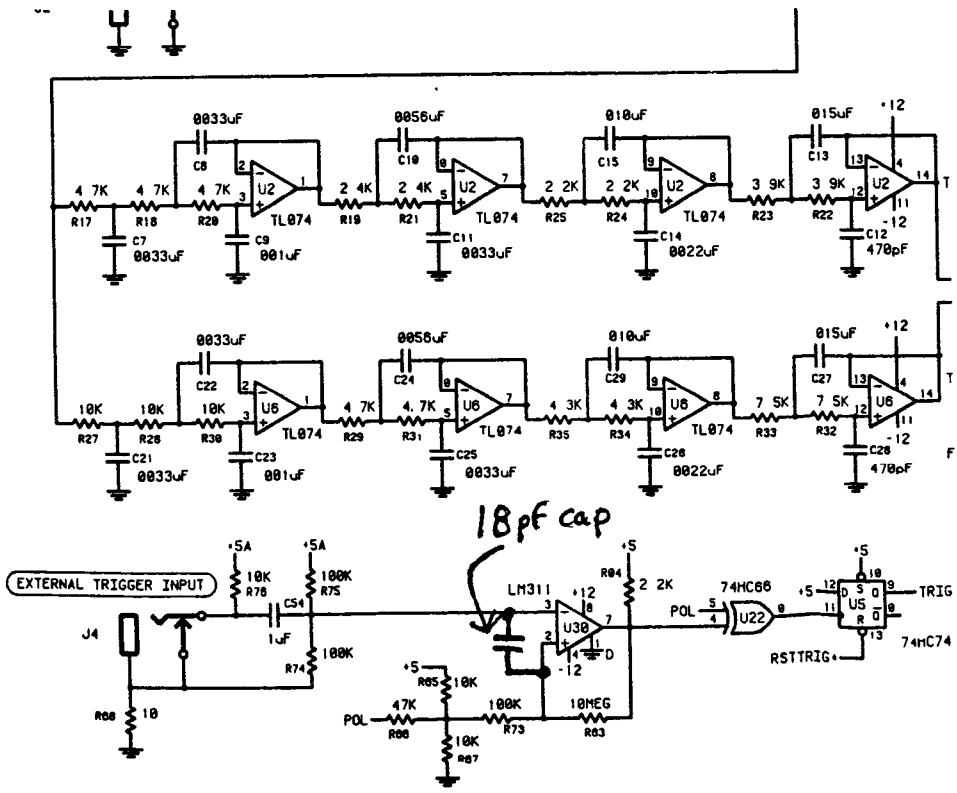
WARRANTY STATUS: 12-Month WARRANTY
 NON-WARRANTY

SB 1201 – Page 1 of 1.

WRITTEN BY: P. Munson	DATE 4.22.87	CHECKED BY: <i>Pete Munson</i>	DATE 4-22-87	APPROVED BY: <i>HAD</i>	DATE 4.22.87
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DESCRIPTION

Add 18pF, 100V ceramic disk capacitor (Oberheim Part #157036) directly to U30, pin 2 and pin 3, as shown below:



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