

Completed TTY 7-30-86

I. APPLICABILITY

All ADO's 2000/3000.

II. PURPOSE

- 1. To improve the ECL, 1% clock distribution on the motherboard.
- 2. To improve the operation of the Output Control PWA.

III. DISCUSSION

Minor wiring changes are made on the motherboard which greatly improves the operation of the IVP PWA and the Output Control PWA. These wiring changes will also improve a possible crosstalk problem when the IVP is placed on an extender.

Additionally, prior to this modification, placing the Output Control on the extender can cause the Video Output to exhibit a flashing problem. Sometimes this problem shows up even if the board is not on the extender. This fault is more pronounced if the ADO is equipped with a digimatte PWA. The Output Video will also appear to have a pink haze in addition to the flashing video.

IV. PARTS REQUIRED

Parts required for this update may be purchased through Ampex. Installation assistance can be obtained through your local Ampex Regional Office at current Ampex Field Engineering rates.



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Amepx Part Number	Description	Quantity	
615-095	Single Kynar Wire 30 AWG	1 Ft.	
636 - 276	Twisted Solid Kynar Wire	5 Ft.	

V. PROCEDURE:

- A. MOTHERBOARD MODIFICATION:
- 1. At the back of the ADO, open the 5V Power Supply door to gain access to the motherboard and perform the following modification:
- 2. Remove the 5 volt Power Harness from the motherboard and place it to the side of the motherboard.
- 3. Remove the ground buss from the motherboard.
- 4. On the motherboard remove existing wires per the following table:

FROM	TO	
600 600 600 600 600 600 600	March Callo Gallo Made Gallo Callo Callo Gallo	
XA15 69	XA18 11	
XA15 70	XA18 12	
XA15 75	XA11 109	CAUTION: Remove the wires
XA15 76	XA11 110	by unwinding the ends off
XA1 11	XA11 105	the pins, and cut both
XA1 12	XA11 106	ends off before removing
XA1 22	XA7 9	it.
XA1 23	XA7 10	

5. Install twisted pair of solid wire per the following table using a wire wrap tool or equivalent.

ADO

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ECL CLOCK DISTRIBUTION IMPROVEMENTS (DIGITAL MOTHERBOARD ADO)

FROM		TO	
VXA15	693	√XA18	
∜XA15	70	√XA18	11
« XA15	75	XA11	110
/ XA15	76	' XA11	109
/ XA15	89 💯	XA11	105
4 XA15		<u> </u>	106
~XA15	9 3	× XA7	9
~XA15	10	£ XA7	10

- 6. Install the ground buss bar in the reverse order of removal.
- Install the Power Supply Harness to the motherboard buss 7. bars. Insure that the correct polarity is maintained. Also insure that the harness screws are as tight as possible.

NOTE: Loose screws can cause a potential fire problem.

8. This completes the motherboard modifications.

٧. PROCEDURE:

- В. OUTPUT CONTROL PWA MODIFICATION.
- √1. Remove the Output Control PWA from the digital chassis.
- . 2. Cut the trace shown in Figure 2.
- Install a 30 AWG Kynar wire from I.C. 7G Pin 1 to I.C. √ 3• 7G Pin 12.
- Install a 30 AWG Kynar wire from I.C. 7G Pin 12 to I.C. 4. 7G Pin 11.
- Install a 30 AWG Kynar wire from I.C. 7G Pin 13 to I.C. √5• 7F Pin 3.
- y 6. Install a 30 AWG Kynar wire from I.C. 2D Pin 2 to I.C. 2D Pin 7. See Figure 1.

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FIELD AMPEX CORPORATION AUDIO-VIDEO SYSTEMS DIVISION ENGINEERING ENGINEERING MODEL

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ADD

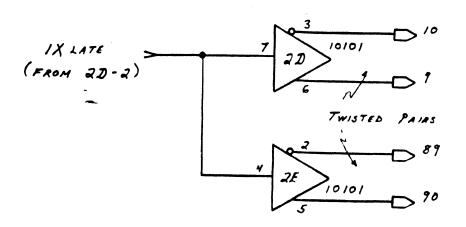
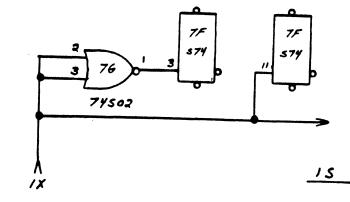
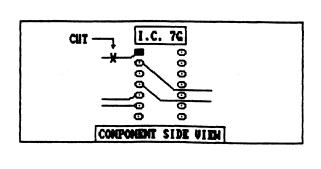


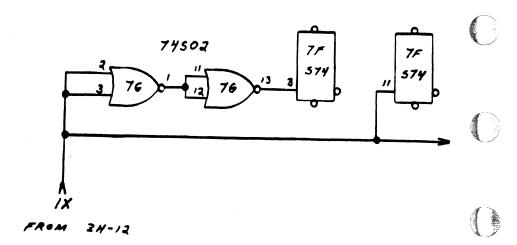
FIGURE 1

WAS





FROM 3H-12





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ECL CLOCK DISTRIBUTION IMPROVEMENTS (DIGITAL MOTHERBOARD ADO)

- 4. Install a 30 AWG Kynar wire from I.C. 2D Pin 7 to I.C. 2E Pin 4.
- Install one wire of a 30 AWG Kynar twisted pair to I.C. 2D Pin 3.
- 9. Install the other wire of the twisted pair to I.C. 2D Pin 6.
- 10. Install the other end of the wire coming from I.C. 2D Pin 3 to finger #10 at the edge of the board.

NOTE: You will have to run the wire through a feed-through near the finger.

- 11. Install the other end of the wire coming from I.C. 2D Pin 6 to finger #9 at the edge of the board.
- 12. Install one wire of a 30 AWG Kynar twisted pair to I.C. 2E Pin 2.
- 13. Install the other wire of the twisted pair to I.C. 2E Pin 5.
- 14. Install the other end of the wire attached to I.C. 2E Pin 2 to finger #89 at the edge of the board.
- 215. Install the other end of the wire coming for I.C. 2E Pin 5 to finger #90 at the edge of the board.

NOTE: You will have to run the wire through a feed-through near the finger.

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