### Engineering Release

**THIS DOCUMENT CONTAINS 13 SHEETS**

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<th>Notes Unless Specified</th>
<th>Drawn</th>
<th>Check</th>
<th>Appro</th>
<th>Material</th>
<th>Xerox Corporation</th>
<th>Title</th>
<th>Code Ident.</th>
<th>Size</th>
<th>Dwg. No.</th>
<th>Change Letter</th>
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<tbody>
<tr>
<td>1. Tolerances .XX ±.03  Angular .XXX ±.010 ±.02</td>
<td>4/10/77</td>
<td>11/4/77</td>
<td></td>
<td></td>
<td>El Segundo, California</td>
<td>ASSY, PRINTED WIRING-CONTROL BOARD (2K) (EXTENDED MEMORY)</td>
<td>18338</td>
<td>A</td>
<td>216642</td>
<td>A</td>
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- **Model No.** ALTO II
- **First Use** 216647
- **Finish**
- **Next Assy.**
- **First Use**
- **Scale** -
- **Do Not Scale Drawing**
- **Sheet** 1 OF
1. MAKE FROM ASSY, P/N - CONTROL BOARD (2K) P/N 216484 REV. B (ITEM 1).

2. THE FOLLOWING MODIFICATIONS ARE REQUIRED TO CONVERT CONTROL BOARD (2K), ITEM 1, TO EXTENDED MEMORY CONTROL BOARD (2K).

   1) CUT ETCH BETWEEN PIN 109 AND FEEDTHRU UNDER U9 (ETCH SIDE).
   2) PIN 108 AND FEEDTHRU. (ETCH SIDE).
   3) PIN 107
   4) PIN 106
   5) PIN 105
   6) PIN 62
   7) CUT ETCH BETWEEN PIN 63 AND FEEDTHRU. (ETCH SIDE).
   8) 
   9) 
  10) 
  11) ADD WIRE FROM U11-1 TO U11-2 TO U17-1.
  12) U11-4 U11-5 U17-2.
  13) U11-11 U11-12 U17-3.
  14) U11-14 U11-15 TO U17-5.
  15) U11-7 U11-8.
  16) U11-3 PIN 105.
  17) U11-6 PIN 106.
  18) U11-10 PIN 107.
  19) U11-13 PIN 108.
  20) ADD WIRE FROM U16-15 TO PIN 109.
  21) 
  22) 
  23) 
  24) 
  25) 
  26) INSTALL MICROCIRCUIT, 74S00 (ITEM 2) IN LOCATION U11 PIN 1-7 AND 10-16.

3) RUBBER STAMP "ASSY 216642" .12 HIGH, WHITE CHARACTERS.
4) RUBBER STAMP "EXTN MEM." .12 HIGH, WHITE CHARACTERS.
### Material List

**Drawing Title**

ASSEMBLY, PRINTED WIRING-CONTROL BOARD (2K)
(EXTENDED MEMORY)

<table>
<thead>
<tr>
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<th>Drawing Title</th>
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<th>No. Req.</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>1</td>
<td>Assy, PW - Control Board (2K)</td>
<td>216484</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Microcircuit, 74S00</td>
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<td>1</td>
<td>(U11 PIN 1-7 &amp; 10-16)</td>
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<td>3</td>
<td>Socket Augat # 514-AG11D</td>
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<td>1</td>
<td>U11</td>
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Title: CONTROL BOARD (2K)  

ASSEMBLY: P. W.  

Xerox Corporation  
El Segundo, California  
216642  

X EACH SIGNAL PULL-UP WITH 330 K Ω RESISTOR  
© EACH SIGNAL PULL-UP WITH 1 K Ω RESISTOR