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Drawn: [Signature] 6-10-77
Check: [Signature] 11-4-77

Title: ASSY, PRINTED WIRING-CONTROL BOARD (2K) (EXTENDED MEMORY)

Code: 18338
Size: A
Dwg. No.: 216642

Scale: -
Do Not Scale Drawing
Sheet 1 OF
NOTES: UNLESS OTHERWISE SPECIFIED

1. MAKE FROM ASSY, P W - 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) PIN 109
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

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Drawing Title</th>
<th>Drawing No.</th>
<th>No. Req.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Assy, PW - Control Board (2K)</td>
<td>216484</td>
<td>1</td>
<td></td>
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<tr>
<td>2</td>
<td>Microcircuit, 74500</td>
<td></td>
<td>1</td>
<td>(U11 PIN 1-7 &amp; 10-16)</td>
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<tr>
<td>3</td>
<td>Socket Augat # 514-AG11D</td>
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<td>1</td>
<td>U11</td>
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</table>

**Model No.:** ALTO II  
**Date:** 11-2-77  
**Sheet:** 4 of 4

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REWORK INSTRUCTION FOR CONTROL MODULE WITH 3K CRAM. (REFER TO FIGURE 1)

CUT ETCH TO FEED THROUGH P2-14 (ETCH SIDE)
CUT ETCH TO FEED THROUGH P2-12 (ETCH SIDE)
CUT ETCH BETWEEN U51-8 AND U51-7 (ETCH)
CUT ETCH TO U70-10 (ETCH SIDE)

ADD JUMPER FROM U37-12 TO U37-7 (ETCH)
ADD JUMPER FROM U51-7 TO U39-3 (ETCH)
ADD JUMPER FROM U68-9 TO FEED THROUGH P2-14 (ETCH SIDE)
ADD JUMPER FROM U68-12 TO FEED THROUGH P2-12 (ETCH SIDE)
ADD JUMPER FROM U25-11 TO FEED THROUGH P3-7 (ETCH SIDE)
ADD JUMPER FROM U25-3 TO FEED THROUGH P3-8 (ETCH SIDE)
ADD JUMPER FROM U25-4 TO FEED THROUGH P3-9 (ETCH SIDE)
ADD JUMPER FROM U25-6 TO FEED THROUGH P3-10 (ETCH SIDE)

REPLACE U51 WITH SW3K PROM (82S126)

FIGURE 1