

| Item | Reference | Cat.No. | Remarks |
|------------------------------------------|--------------|---------|----------------------------------------------------|
| SELECTED lamp | SWD | 10844 | No switch incorporated |
| Lens cap, yellow | - | 10842 | For SELECTED lamp |
| OFF switch/lamp | SWA | 10838 | |
| Lens cap, red | - | 10839 | For OFF lamp |
| ON switch/lamp | SWB | 10838 | |
| Lens cap, green | - | 10840 | For ON lamp |
| RESET switch | SWC | 10838 | Lamp section not used |
| Lens cap, white | - | 11011 | For RESET switch |
| Bulb, 6V - 0.2A | - | 11388 | Used in SELECTED, ON and OFF lamps |
| ENGINEER'S CONTROL PANEL | | | |
| Terminal Block | TBA, B, C, D | 11860 | |
| Relay, Varley 4CO - 6V - | RLA, B, | 12218 | |
| ON LINE/TEST/PULSE switch | SWE | 9296 | 3 posn, key switch, non-locking in PULSE position. |
| OSC.STOP/CYCLE STOP/ CYCLE REPEAT switch | SWF | 9416 | 3 posn. key switch, locking in all positions. |
| Key handle insert, black | - | 7664) | For SWE and SWF |
| ENTRY PANEL | | | |
| Fuse, 10A | FS1 | 2931 | |
| Fuseholder, 10A | - | 5323 | |
| Plug, 3 way, 20A | PLD | 12591 | |
| MAIN ASSY | | | |
| Power Unit | PU1 | 14343 | PS461-6V, 6A stabilized |
| Power Unit | PU2 | 14057 | PS453-6V, 2A stabilized |
| R. F. filter unit | FL1 | 11244 | 2.5A single phase |

| Board Type | Board Cat. No. | Board Position | L.S.A. AREA REFERENCE | | | | | | | | | | | | Additional Components | | | | | | |
|------------|----------------|------------------------------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|-----------------------|---------------------|-----------------------------------------------------------------------------------------|------------|-------|--------------|---|
| | | | 1A | 1B | 2A | 2B | 3A | 3B | 4A | 4B | 5A | 5B | 6A | 6B | 7A | 7B | G Area Pad Location | Value | To % | Cat. No. | |
| DPS194 | I(2/4)B25728 | B1 | - | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 15 | 15 | 06 | - | 46 | 49 | e/25, b/23, c/24 | Transistor | - | 9727 (PS204) | |
| | | | | | | | | | | | | | | | | 30/34 | Crystal | - | 14663 | | |
| | | | | | | | | | | | | | | | | 22/23 | 820μ | 5 | 11280 | | |
| | | | | | | | | | | | | | | | | 27/28 | 220μ | 5 | 9204 | | |
| | | | | | | | | | | | | | | | | 29/30, 31/32, 33/34 | 1K | 5 | 9159 | | |
| | | | | | | | | | | | | | | | | 11/7 | 47μ | 5 | 6396 | | |
| | | | | | | | | | | | | | | | | 24/5811 | 10μF | 20 | 9137 | | |
| | | | | | | | | | | | | | | | | 14/20 | .00μF | 20 | 12271 | | |
| | | | | | | | | | | | | | | | | 21/17, 17/13 | 0.68μF | 5 | 9430 | | |
| DP195 | I(2/4)B25729 | B3 | - | 15 | 12 | 03 | 12 | 03 | 12 | 03 | 12 | 03 | 12 | 03 | 12 | 03 | 23/27, 33/29 | 0.68μF | 5 | 9430 | |
| DP196 | I(2/4)B25730 | B4 | - | - | - | 03 | 06 | - | 01 | 03 | 01 | 15 | - | - | - | - | - | - | - | - | |
| DP197 | I(2/4)B25731 | B5 | - | 02 | 11 | 02 | 11 | 02 | 06 | 03 | 06 | 03 | 01 | 03 | 01 | 03 | 1/2, 3/4, 5/6, 11/12, 13/14, 25/26 | 47μ | 5 | 9219 | |
| DP198 | I(2/4)B25732 | B6 | - | 06 | 06 | 06 | 06 | 06 | 05 | 06 | 01 | 06 | 06 | 06 | 06 | - | - | - | - | - | |
| DP199 | I(2/4)B25733 | B8 | 02 | - | 06 | 06 | 03 | 05 | 03 | 01 | 11 | 12 | 02 | 06 | 01 | 15 | 21/22, 23/24, 25/26 | 47μ | 5 | 9219 | |
| DP200 | I(2/4)B25734 | B9 | 03 | 02 | 03 | 06 | 05 | 02 | 06 | 03 | 06 | 02 | 06 | 15 | 06 | 02 | - | - | - | - | |
| DP201 | I(2/4)B25735 | B10 | 46 | 46 | 01 | 01 | 06 | 05 | 02 | 02 | 02 | 15 | 02 | 15 | - | 15 | 1/2, 3/4 | 220μ | 5 | 9204 | |
| DP202 | I(2/4)B25736 | B12-B17 | 06 | 06 | 03 | 01 | 05 | 06 | 05 | 06 | 05 | 01 | 01 | 11 | 12 | - | - | - | - | - | |
| DP203 | I(2/4)B25737 | B18 | 15 | 06 | 15 | 02 | 15 | 05 | 15 | 06 | 15 | 05 | 15 | 02 | 15 | - | 15/20, 27/32 | 1K | 5 | 9159 | |
| DP204 | I(2/4)B25738 | B20 | 01 | 01 | 02 | 01 | 03 | 01 | 03 | 12 | 01 | 12 | 15 | 12 | 15 | 01 | - | - | - | - | |
| DP205 | I(2/4)B25739 | B21 | 01 | 46 | 01 | 46 | 01 | 46 | 01 | 46 | 01 | 46 | 01 | 46 | - | 46 | 3/4, 5/6, 7/8, 17/18, 23/24, 29/30, 31/32 | 220μ | 5 | 9204 | |
| DP206 | I(2/4)B25740 | B22 | - | - | 06 | 06 | 06 | 06 | 06 | 02 | 06 | 02 | 06 | 02 | 06 | 01 | 12 | - | - | - | |
| DP207 | I(2/4)B25741 | B24 | 01 | 01 | 02 | 06 | 01 | 06 | 11 | 06 | 11 | 05 | 02 | 06 | 11 | 06 | 17/18, 19/20, 21/22, 23/24, 25/26, 27/28, 29/30, 31/32, 33/34 | 47μ | 5 | 9219 | |
| DP208 | I(2/4)B25742 | B25 | 02 | 06 | 05 | 02 | 06 | 05 | 01 | 06 | 02 | 11 | 02 | 05 | 15 | 15 | 19/20, 21/22, 23/24 | 47μ | 5 | 9219 | |
| DP209 | I(2/4)B25743 | A1 | 03 | 01 | 01 | 01 | 01 | 01 | 02 | 06 | 01 | 02 | 15 | 06 | 06 | 06 | 1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 13/14, 15/16 | 1K | 5 | 9159 | |
| DP210 | I(2/4)B25744 | A4 | 46 | 46 | 46 | 46 | 15 | 46 | 15 | 46 | 15 | 46 | 01 | 46 | 01 | 15 | 1/2, 3/4, 5/6, 7/8, 11/12, 17/18, 23/24, 29/30 | 220μ | 5 | 9204 | |
| DP211 | I(2/4)B25745 | A5 | - | 01 | 15 | 15 | 15 | 01 | 02 | 01 | 03 | 03 | 03 | 01 | 01 | - | - | - | - | - | |
| DP212 | I(2/4)B25746 | A6 | 03 | - | 03 | 01 | 03 | 02 | 03 | 01 | 03 | 01 | 02 | 01 | 01 | - | - | - | - | - | |
| DP213 | I(2/4)B25747 | A7, A8 | 02 | 03 | 01 | 03 | 02 | 03 | 02 | 03 | 01 | 03 | 02 | 03 | - | 03 | - | - | - | - | |
| DP214 | I(2/4)B25748 | A9 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 13/14, 17/18, 21/22, 23/24, 25/26, 27/28, 29/30, 31/32 | 220μ | 5 | 9204 | |
| DP215 | I(2/4)B25749 | A11, A12, A14, A17, A19, A20 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 1/2, 3/4, 7/8, 9/10, 11/12, 15/16, 17/18, 23/24, 25/26, 29/30, 31/32, 5/6 | 220μ | 5 | 9204 | |
| DP216 | I(2/4)B25750 | A13 | 01 | 01 | 01 | 01 | 01 | 03 | 01 | 01 | 03 | 01 | - | - | - | - | - | - | - | - | |
| DP217 | I(2/4)B25751 | A18 | 01 | - | 01 | 02 | 01 | 01 | 02 | 02 | 01 | 03 | 01 | 01 | 01 | 01 | 61 | - | - | - | - |
| DP218 | I(2/4)B25752 | A21 | - | 03 | 01 | 01 | 01 | 02 | 03 | 01 | 03 | 01 | 01 | 01 | - | 01 | - | - | - | - | |
| DP219 | I(2/4)B25753 | A23 | 01 | 01 | 06 | 01 | 06 | 01 | 01 | 01 | 01 | 01 | 02 | 01 | 03 | 03 | - | - | - | - | |
| DP220 | I(2/4)B25754 | A24 | 03 | 03 | 01 | 46 | 01 | 46 | 01 | 46 | 03 | 46 | 03 | 46 | 03 | 46 | 4/8, 9/13, 16/20, 21/25, 28/32, 29/33 | 220μ | 5 | 9204 | |

NOTE. On all boards, 3 decoupling capacitors are fitted. These are 10μF ± 20%, Catalogue No. 9137

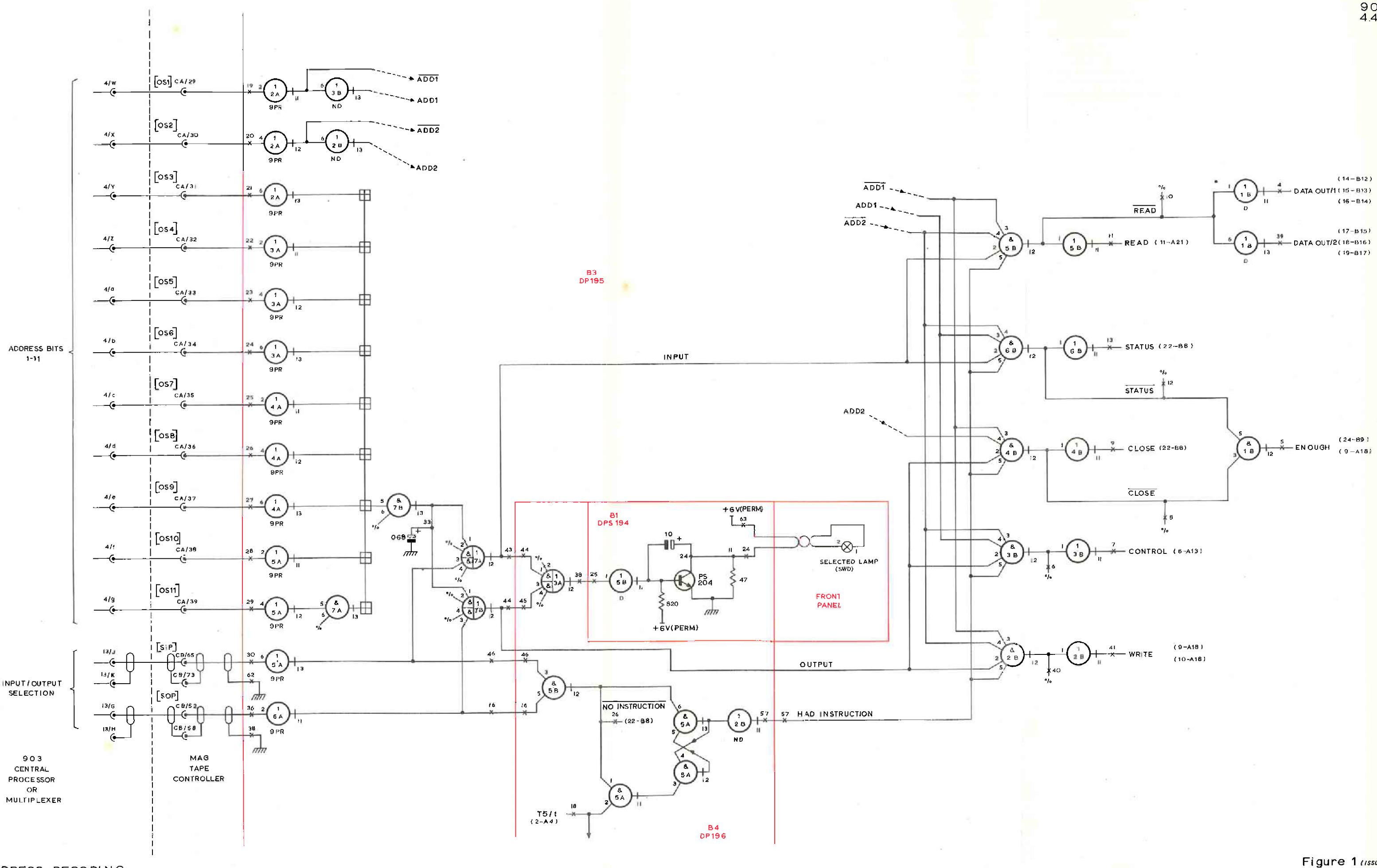
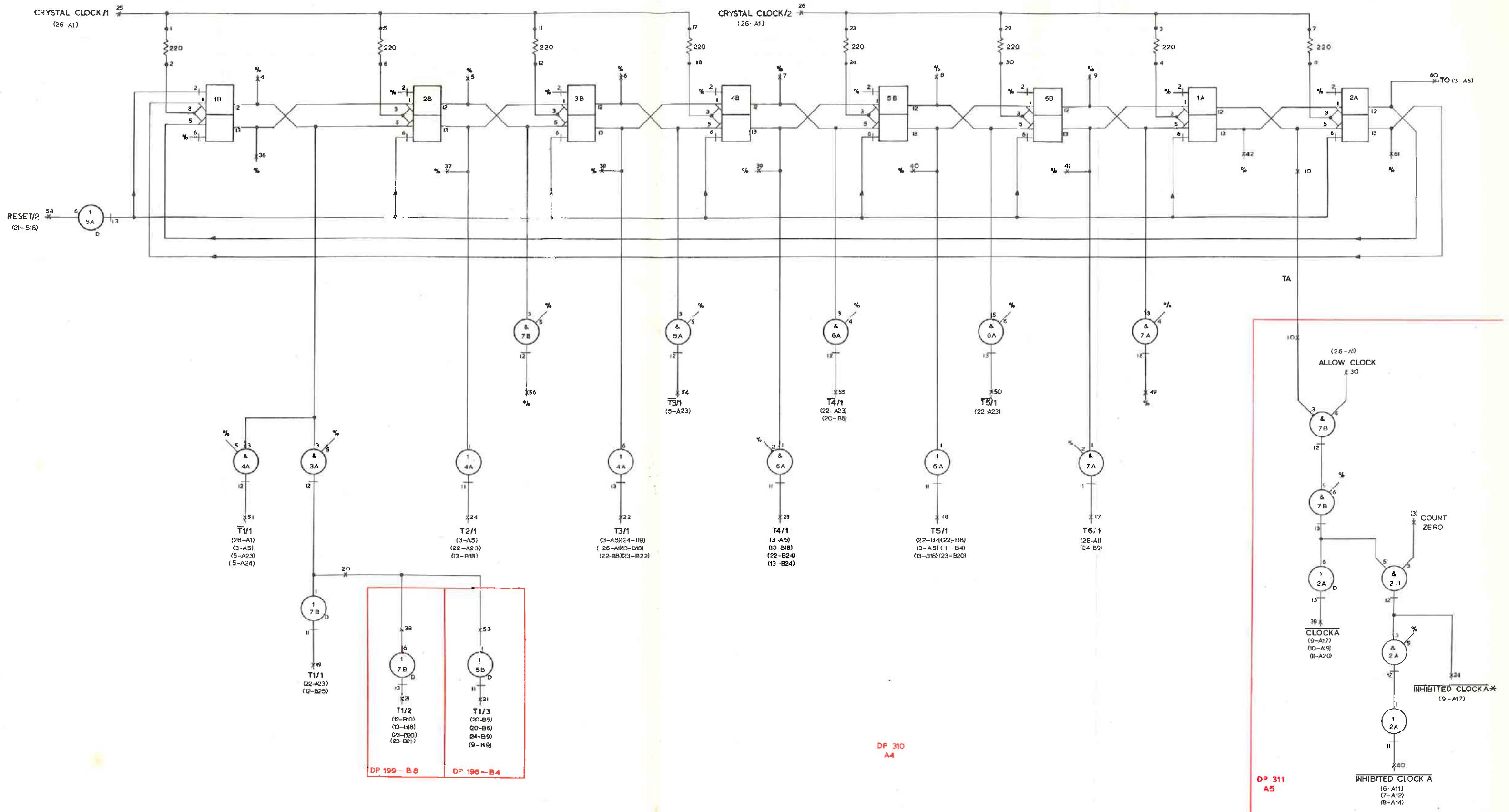


Figure 1 (Issue 2)



CRYSTAL- CONTROLLED TIMER.

Figure 2 (ISSUE2)

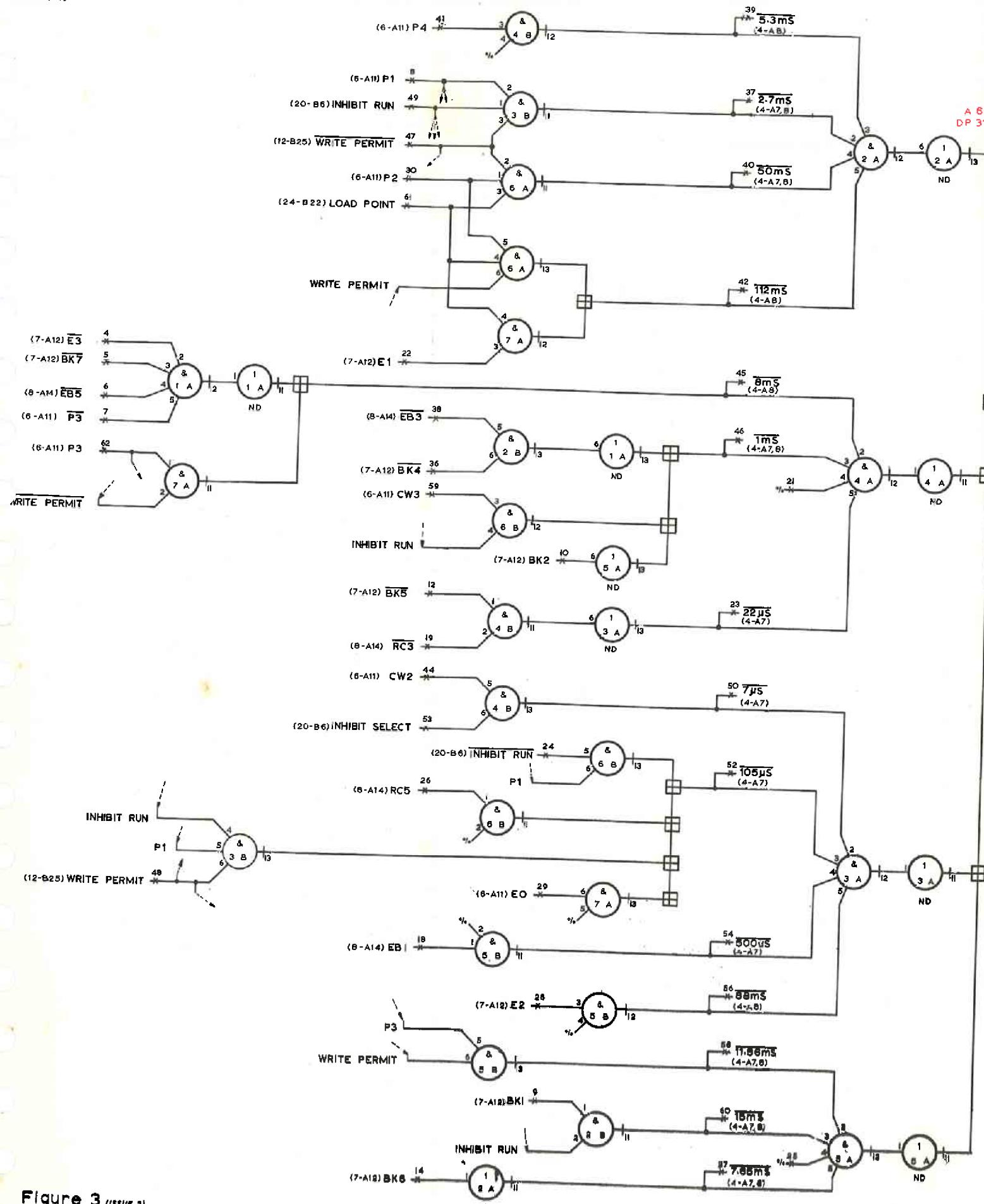
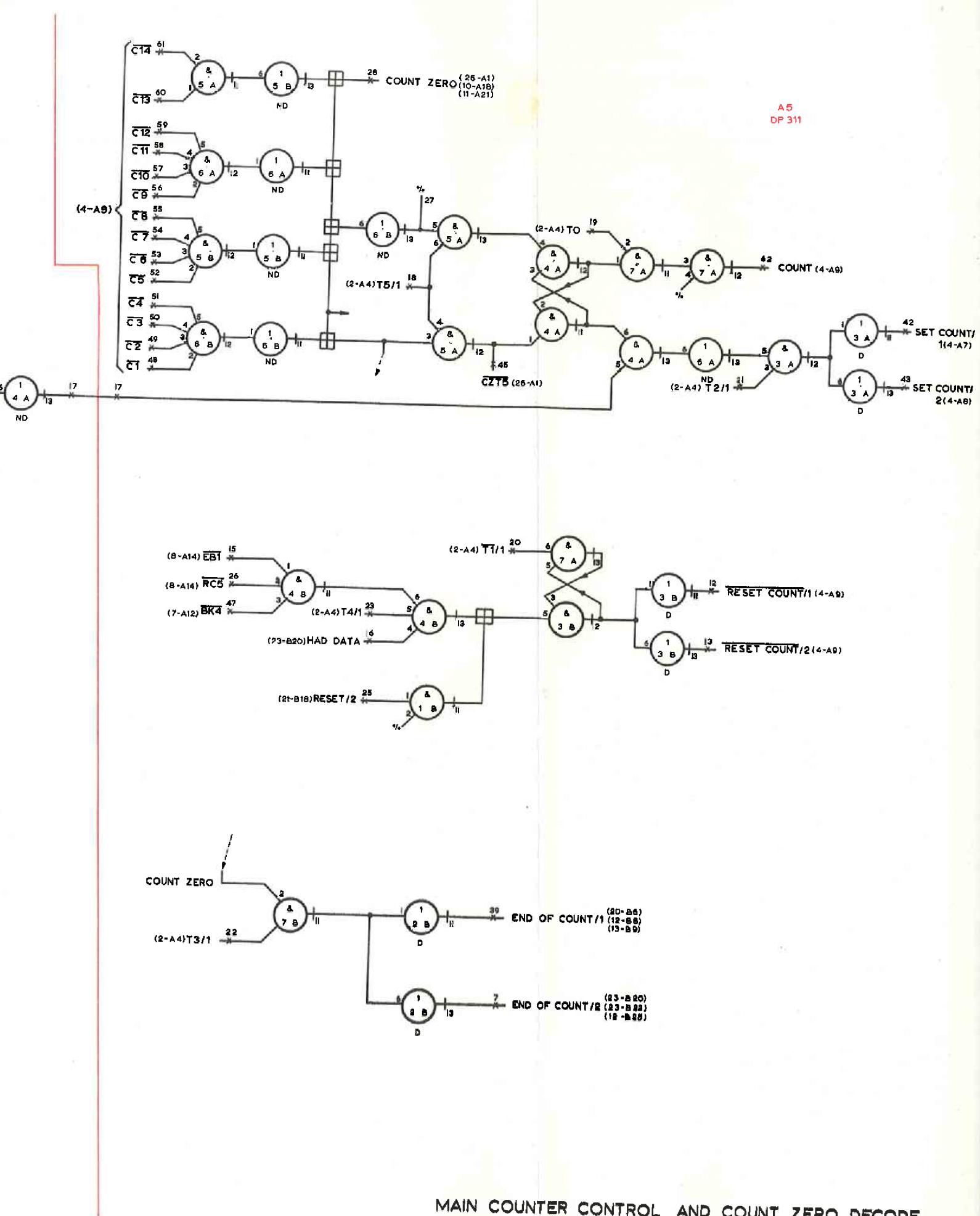


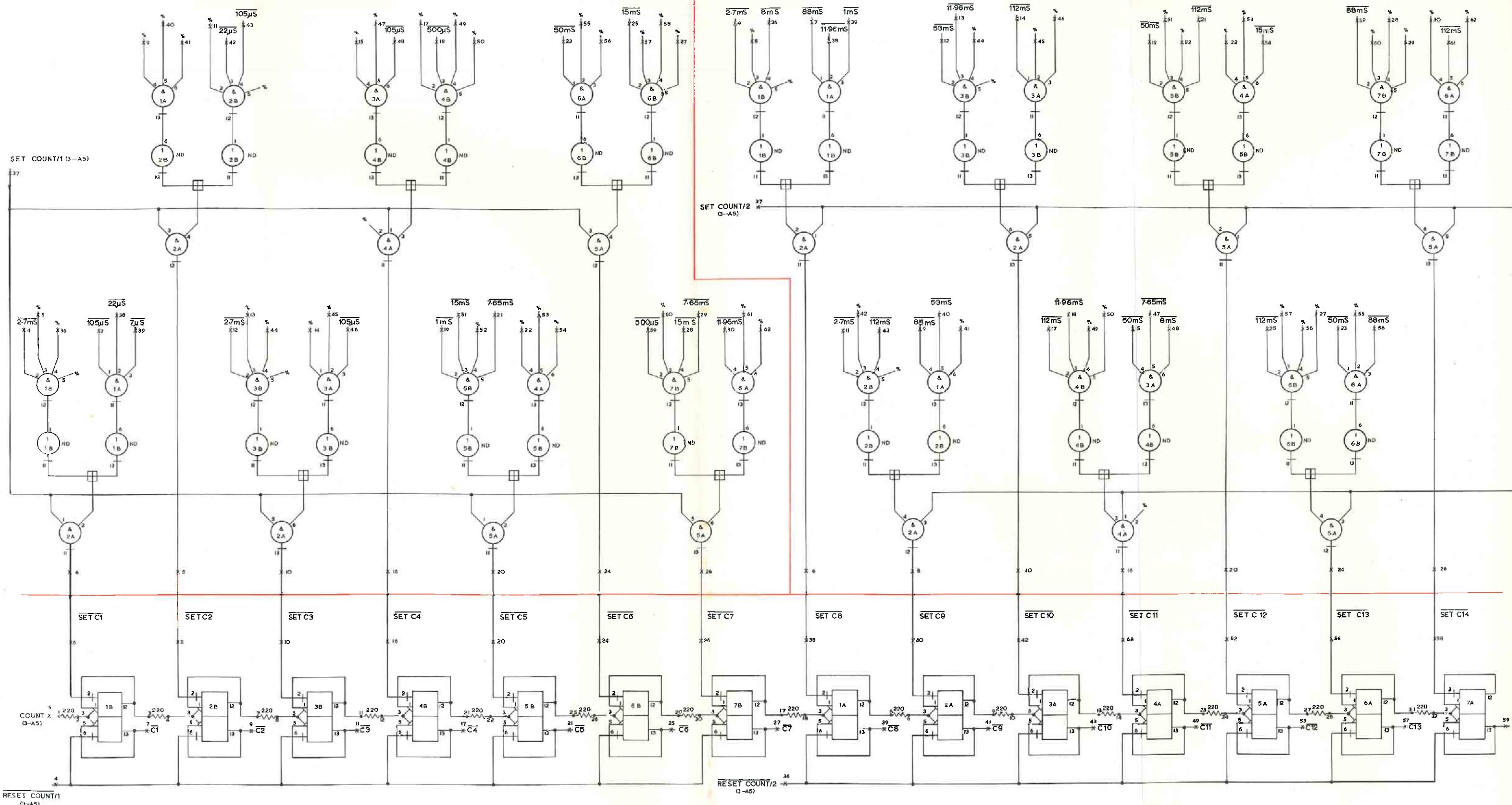
Figure 3 (Issue 2)



MAIN COUNTER CONTROL AND COUNT ZERO DECODE

DP 313
A7

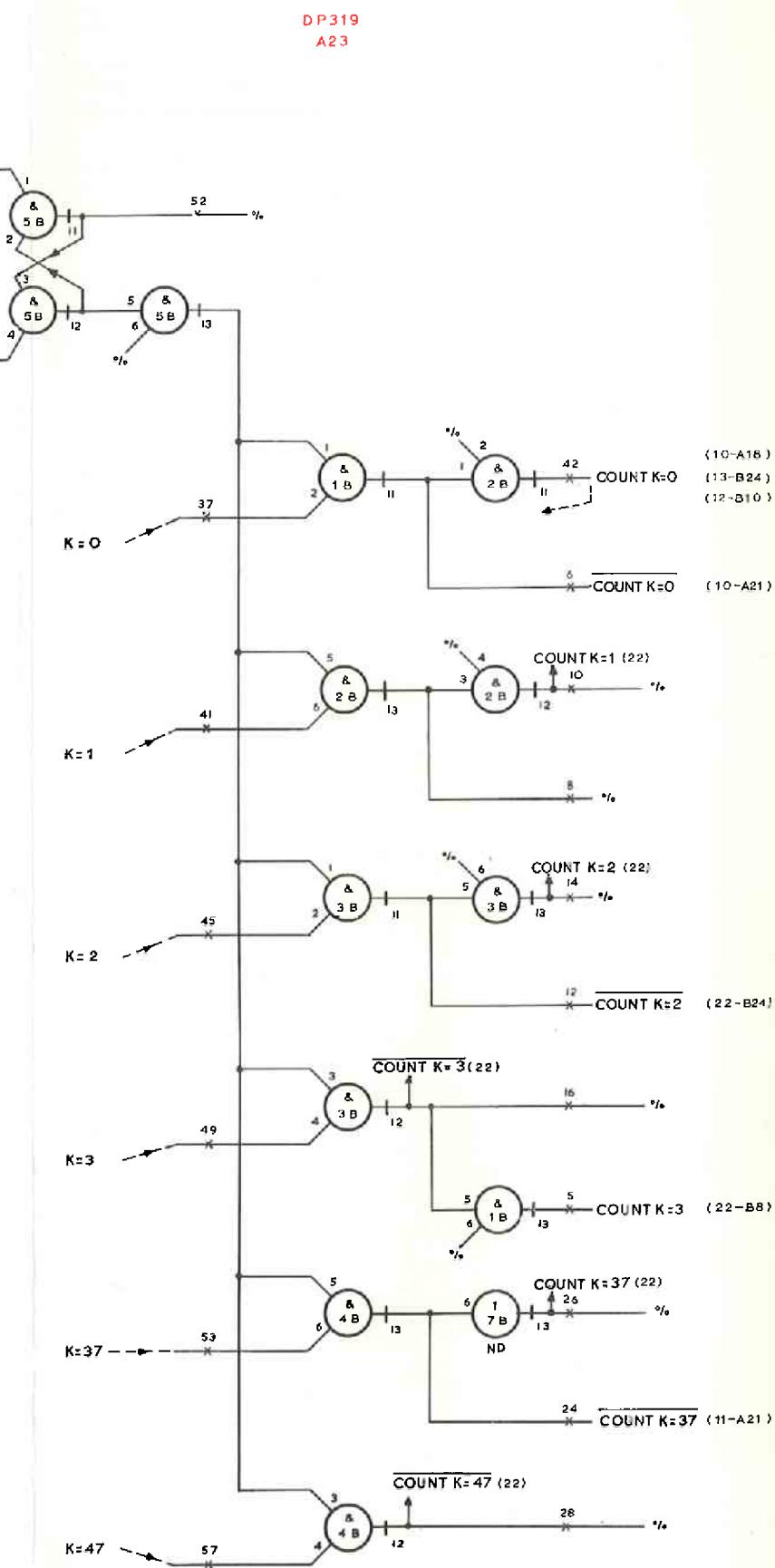
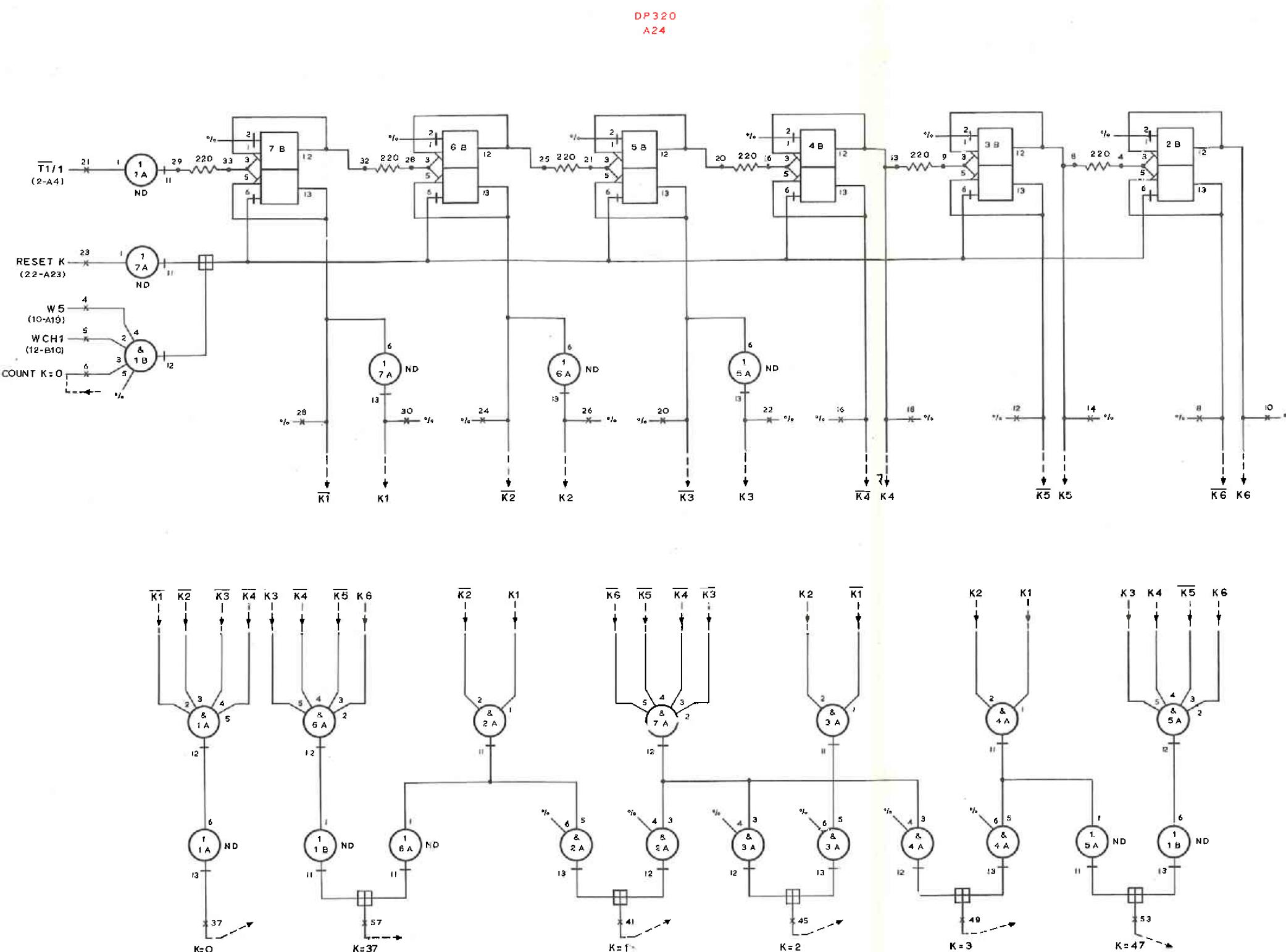
NOTE: All Timing Signals on this figure (e.g. 22μS, 105μS) originate from Board A6 shown on Figure 3.

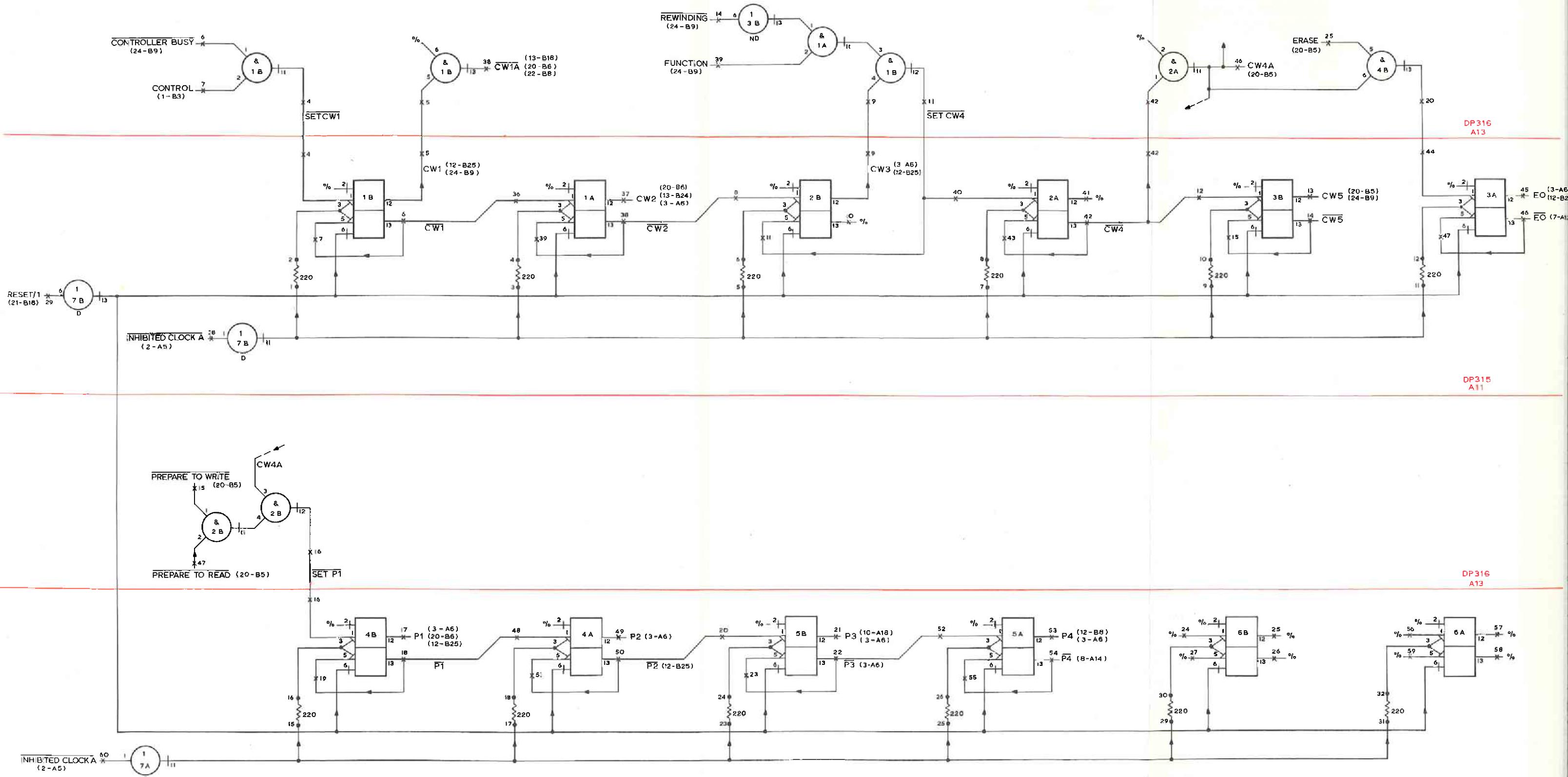
DP 313
AB

MAIN COUNTER.

DP 314
A9

Figure 4 (Issue 2)





CONTROL WRITE AND PREPARE SEQUENCE CONTROL

Figure 6 (ISSUE)

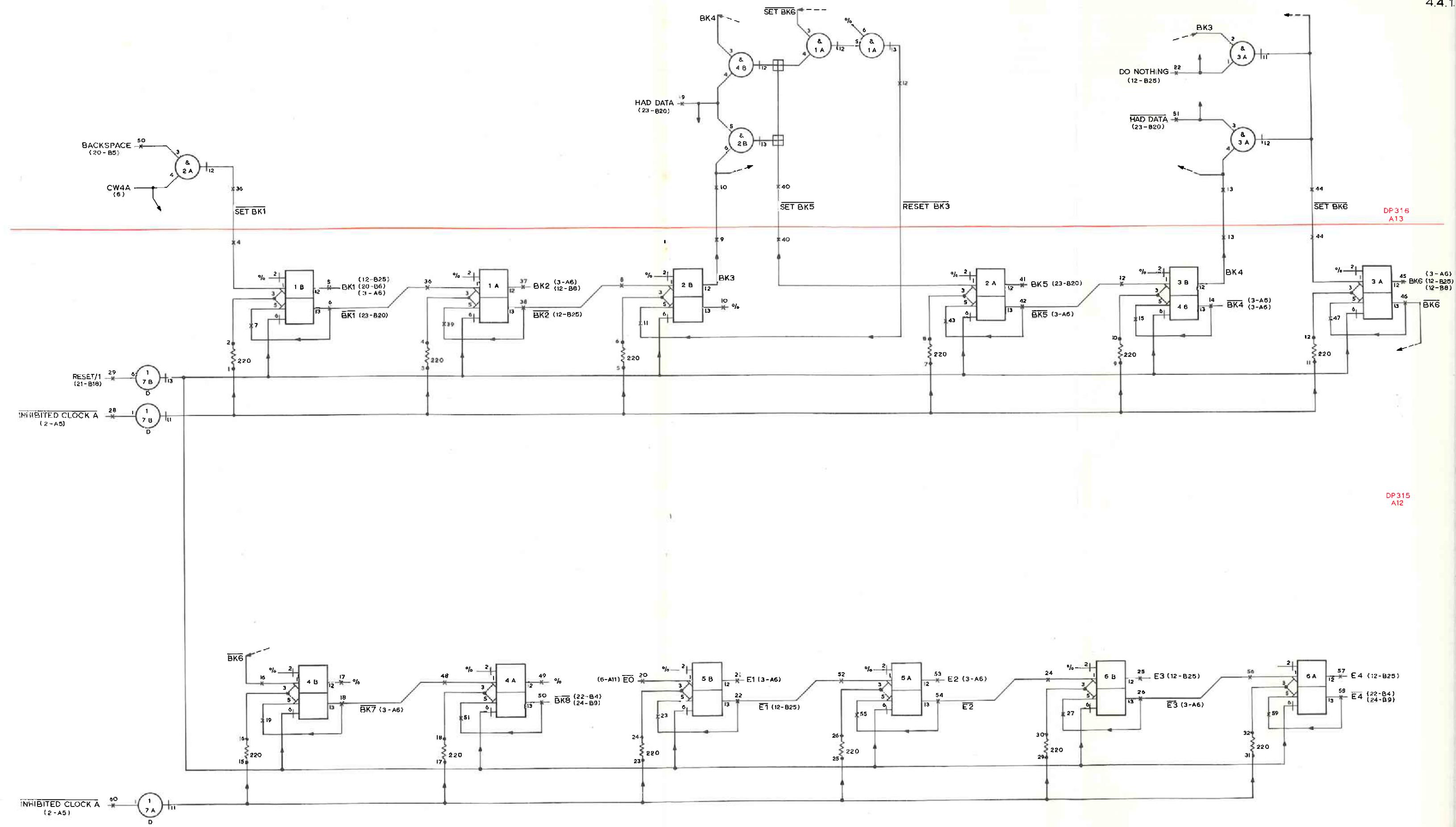
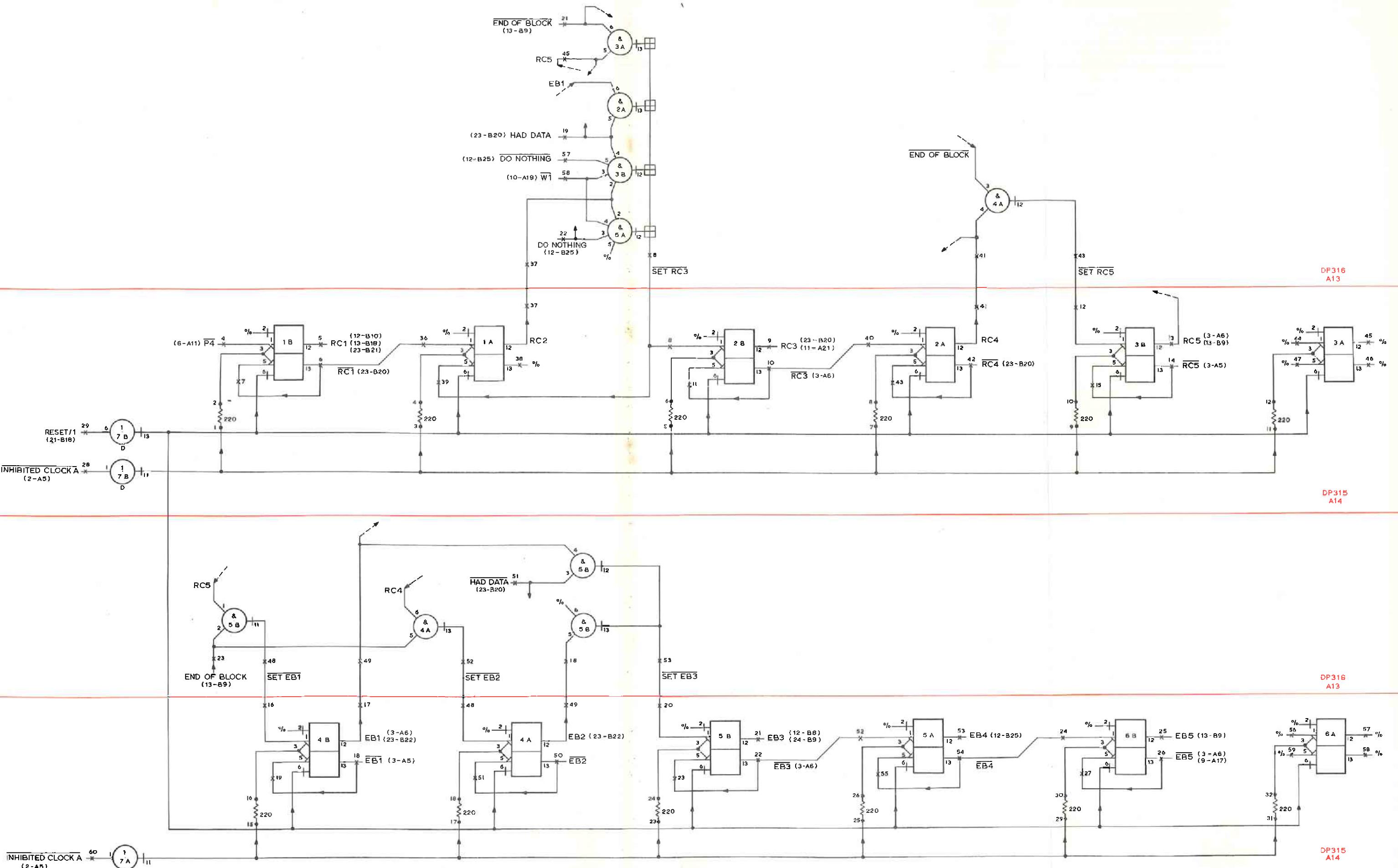
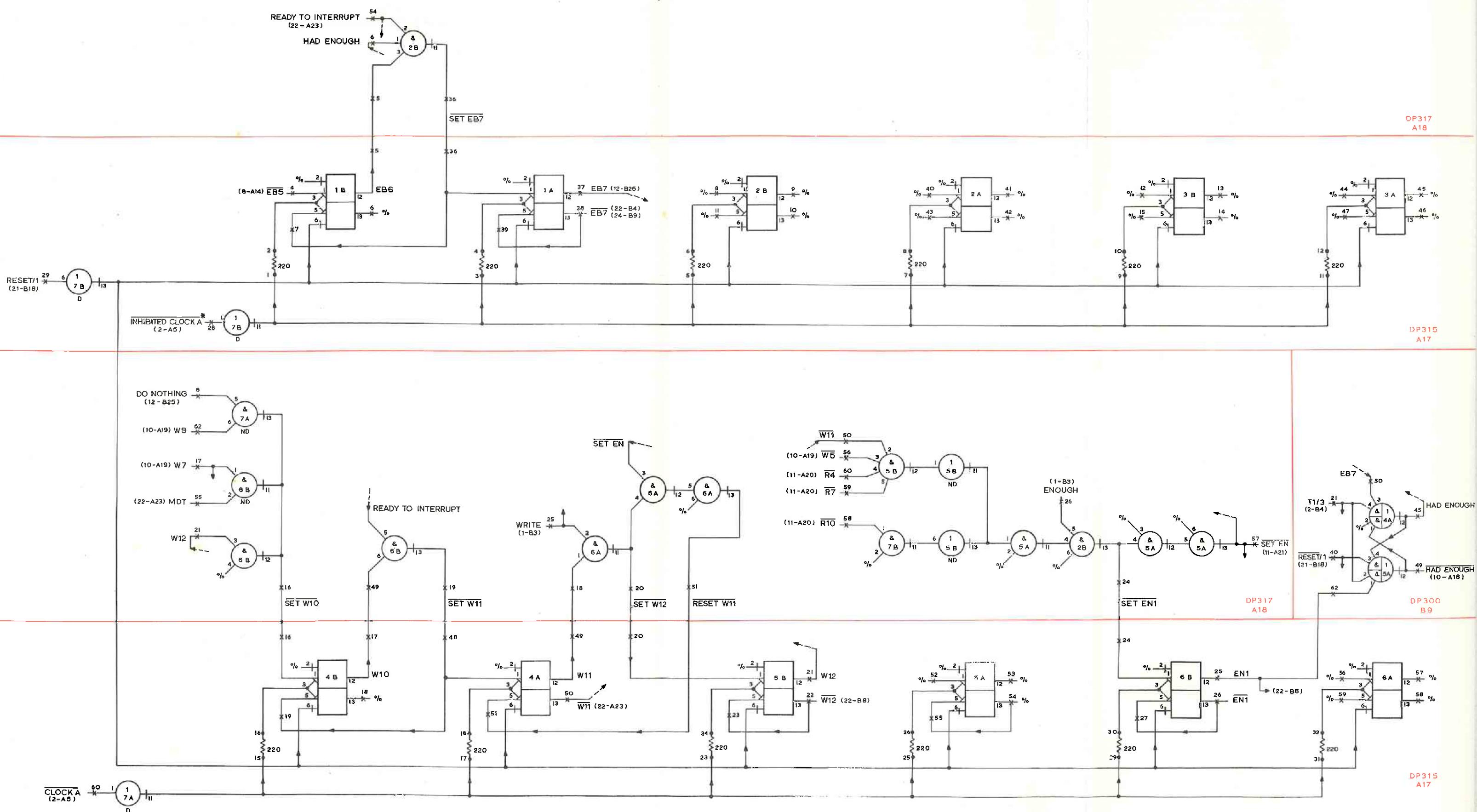
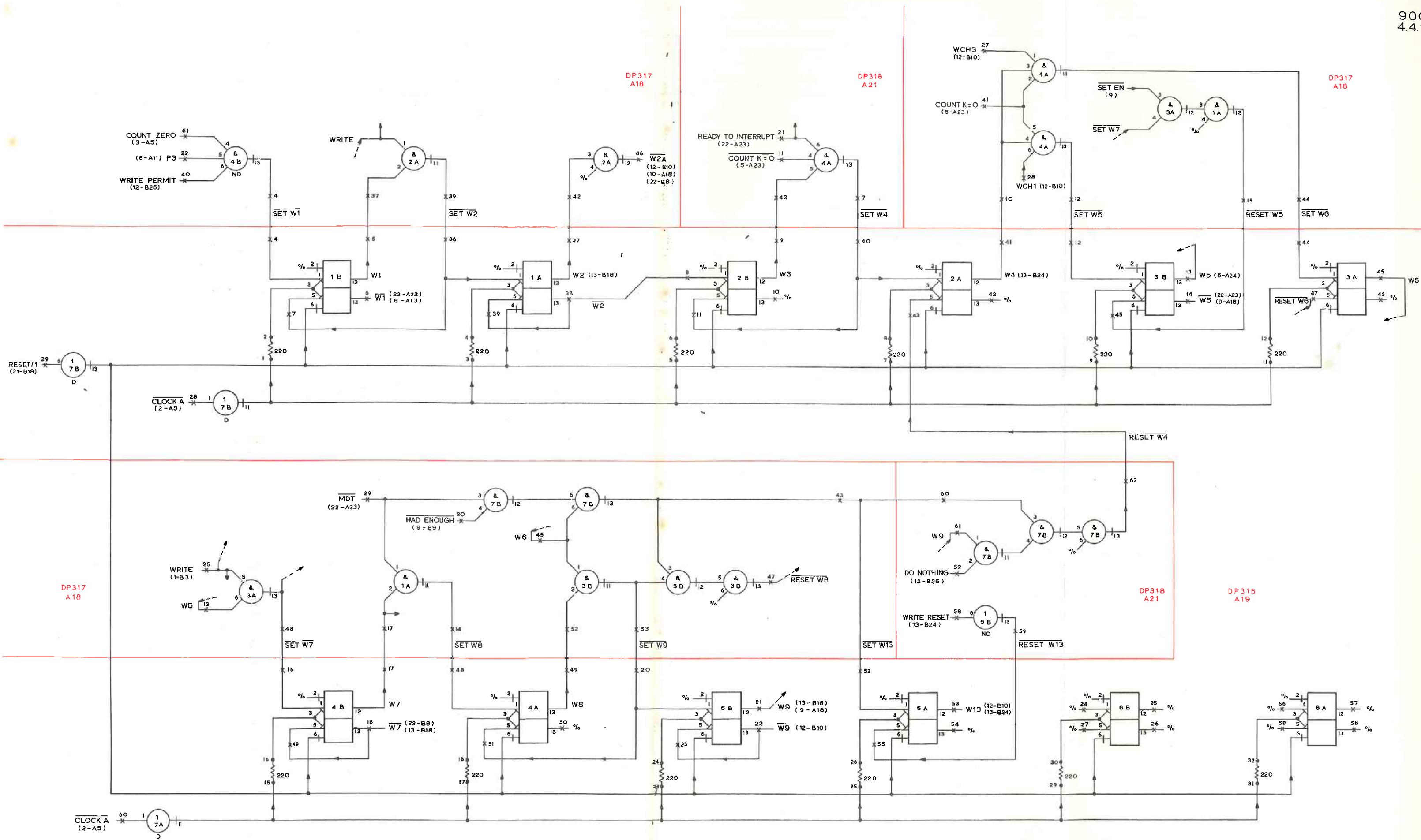


Figure 7 (ISSUE 2)



READ CHECK AND END OF BLOCK (EB1-5) SEQUENCE CONTROL.





WRITE SEQUENCE (W1-9, W13) CONTROL

Figure 10 (ISSUE 2)

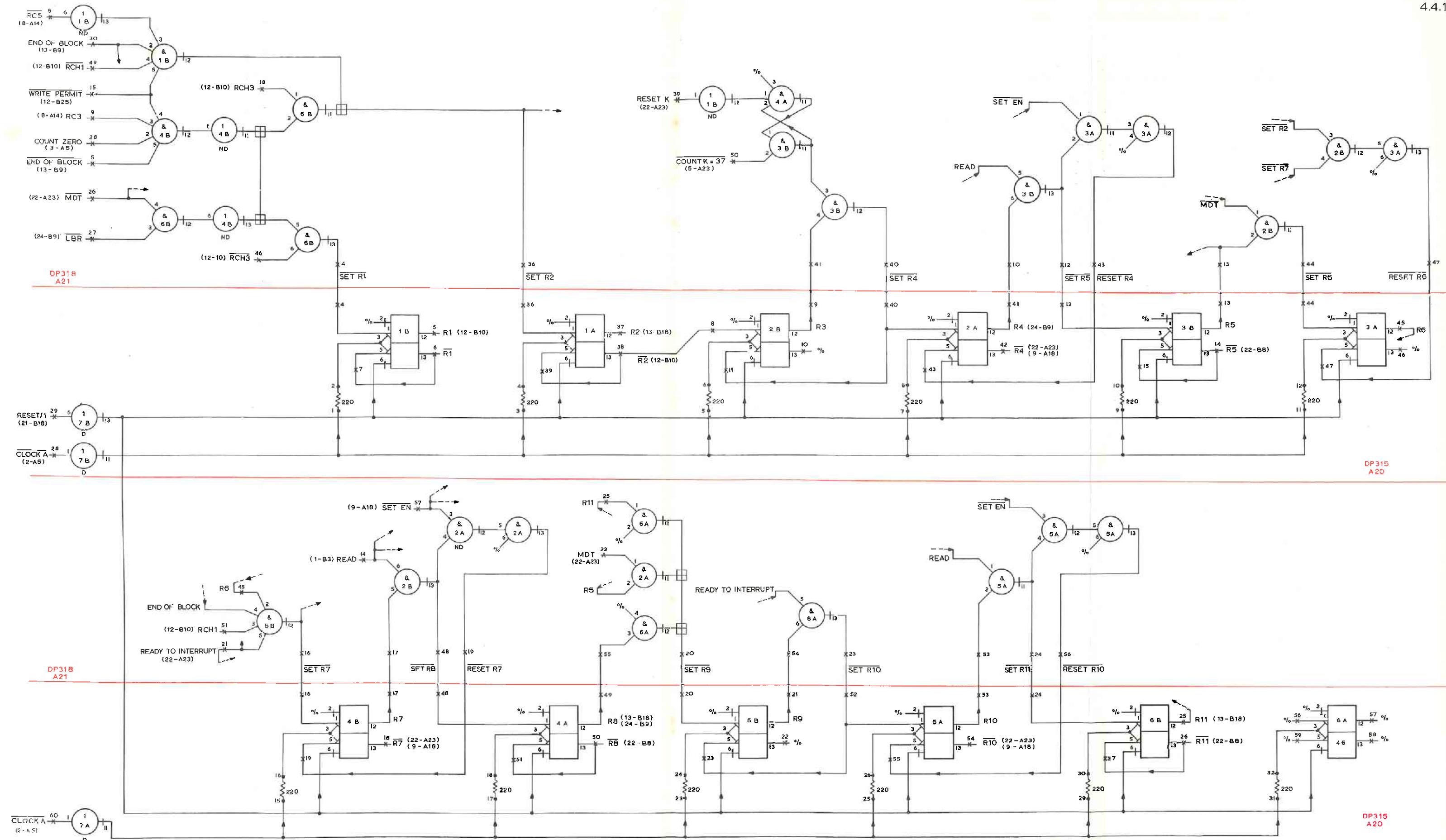
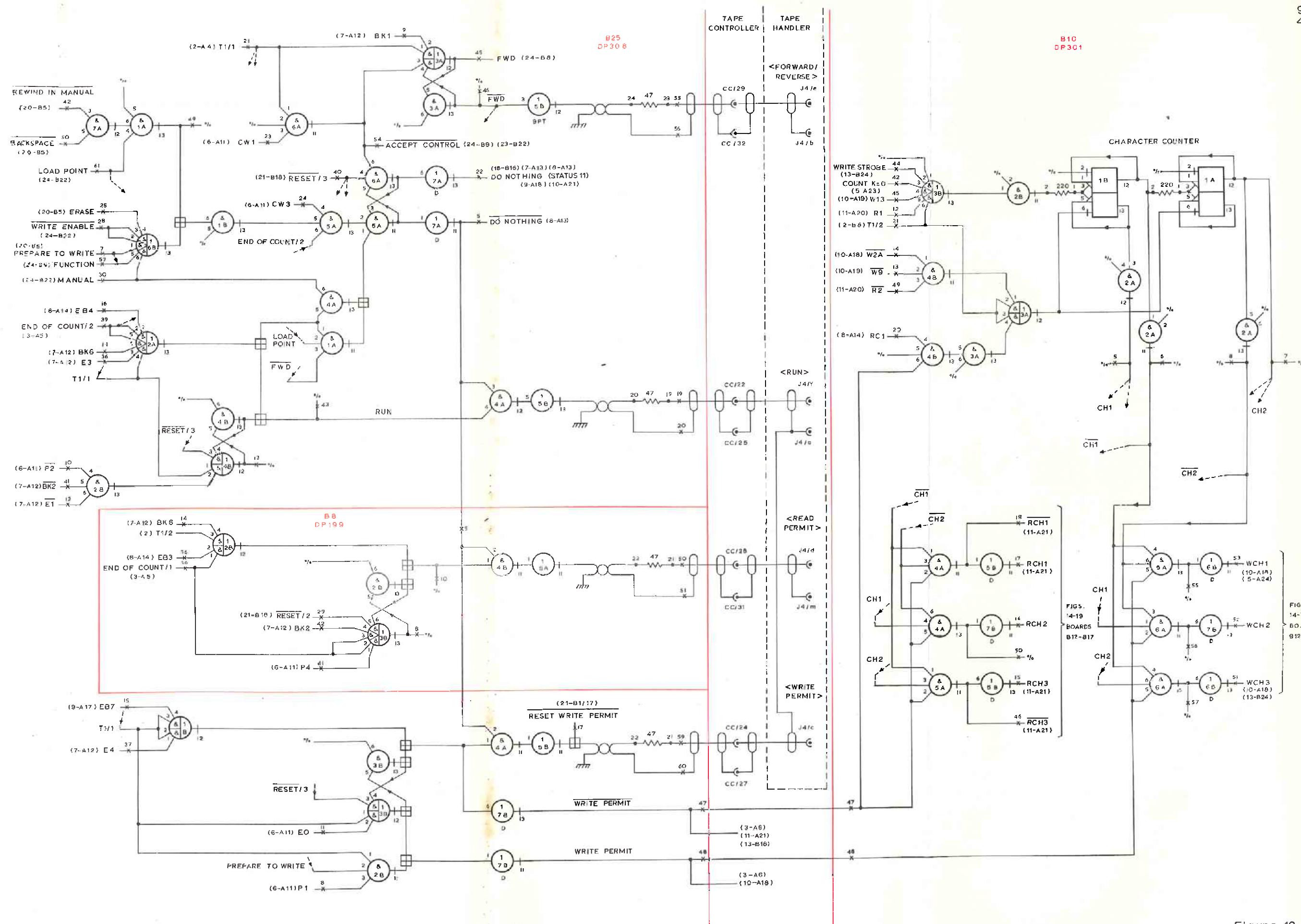


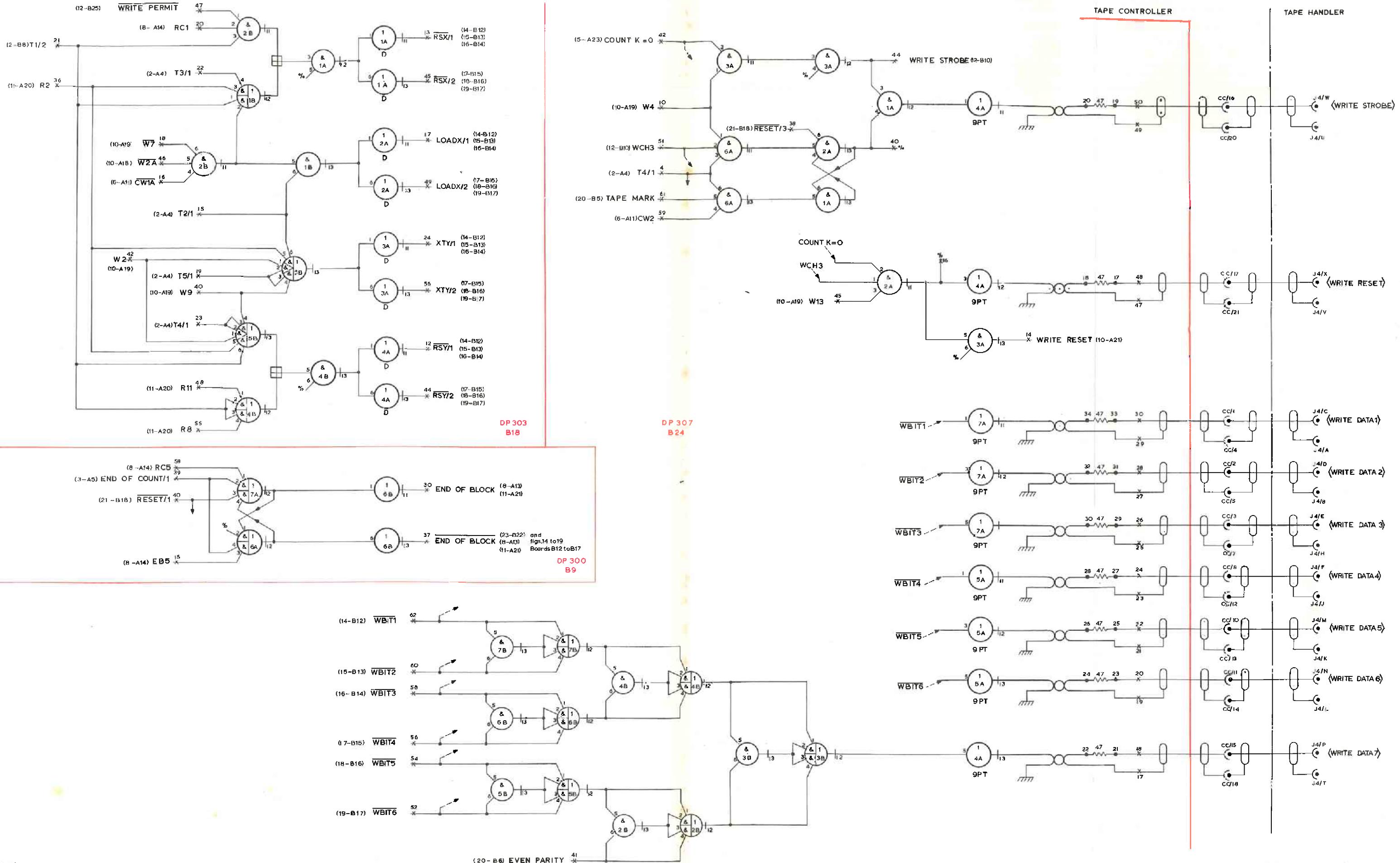
Figure 11 (ISSUE 2)

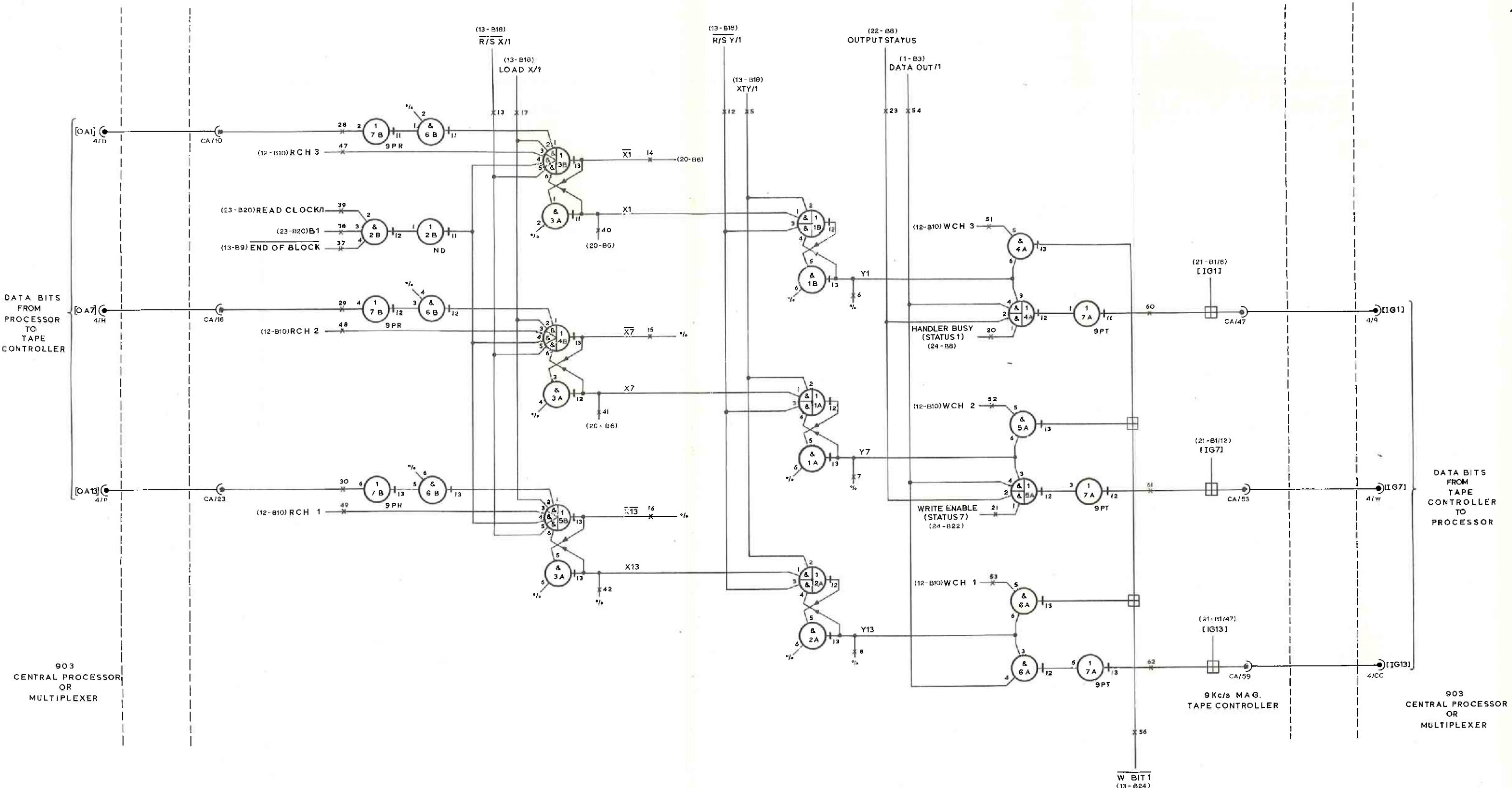
READ SEQUENCE CONTROL

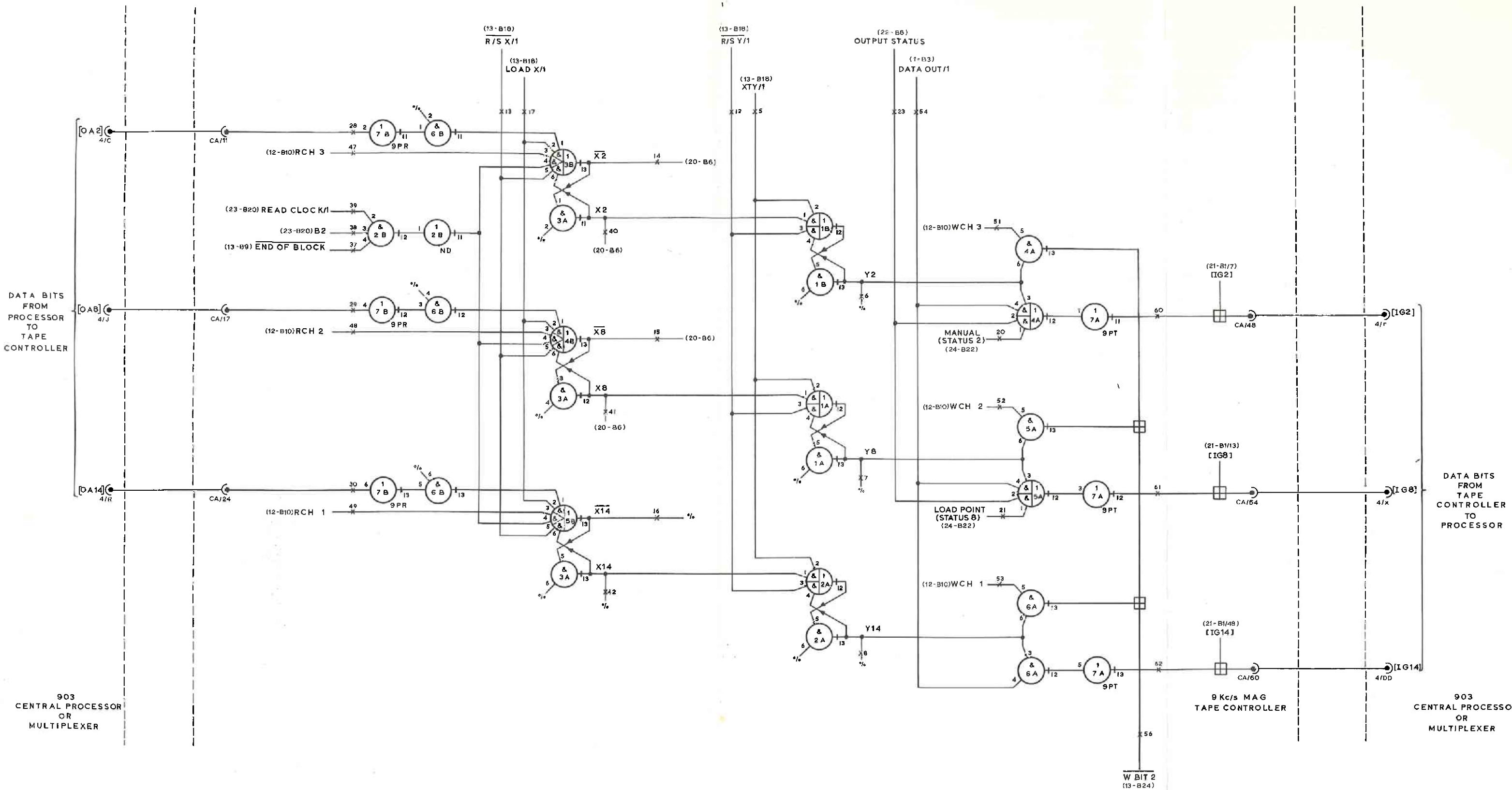


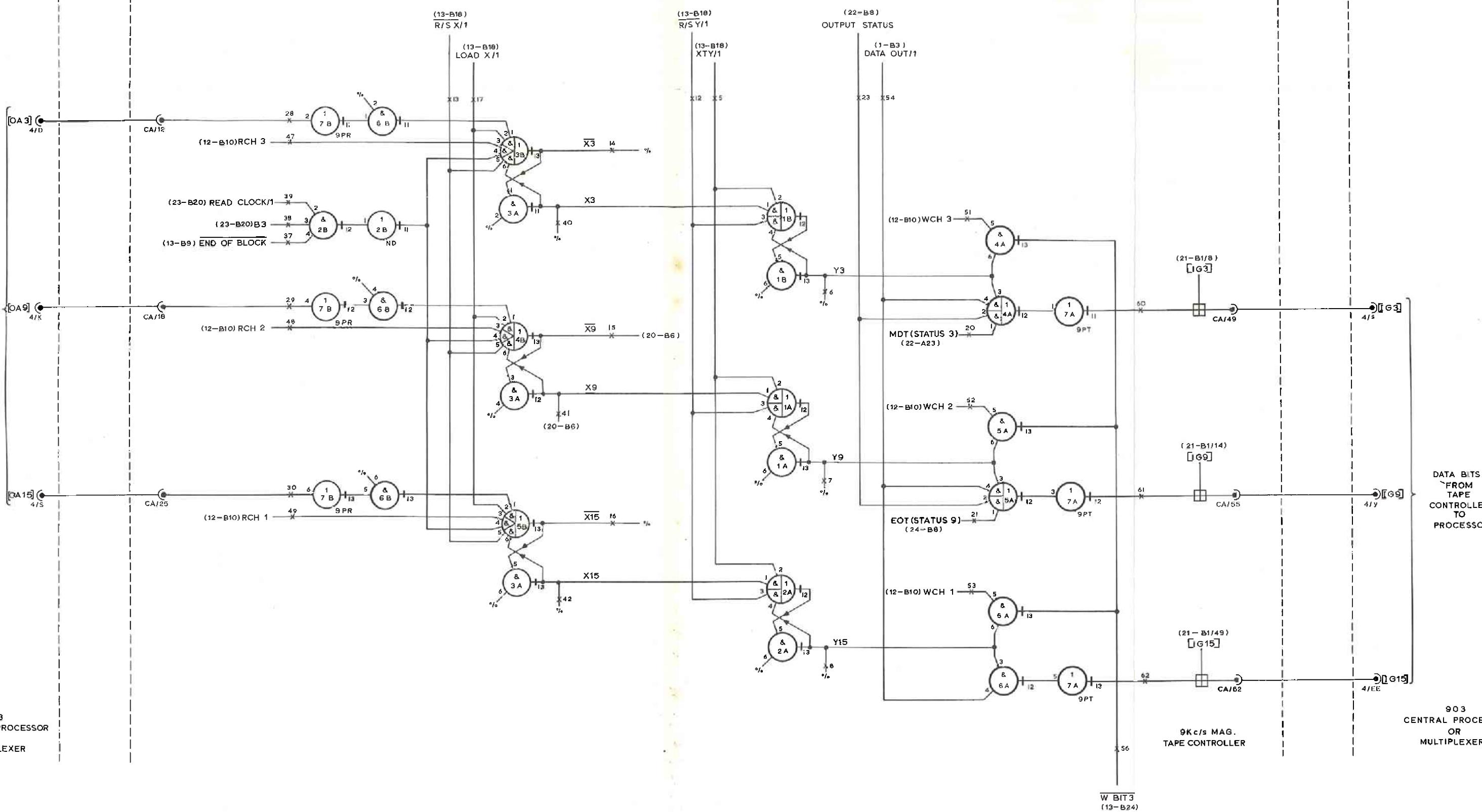
RUN FORWARD/REVERSE, READ AND WRITE PERMIT AND CHARACTER COUNTER

Figure 12 (ISSUE 2)

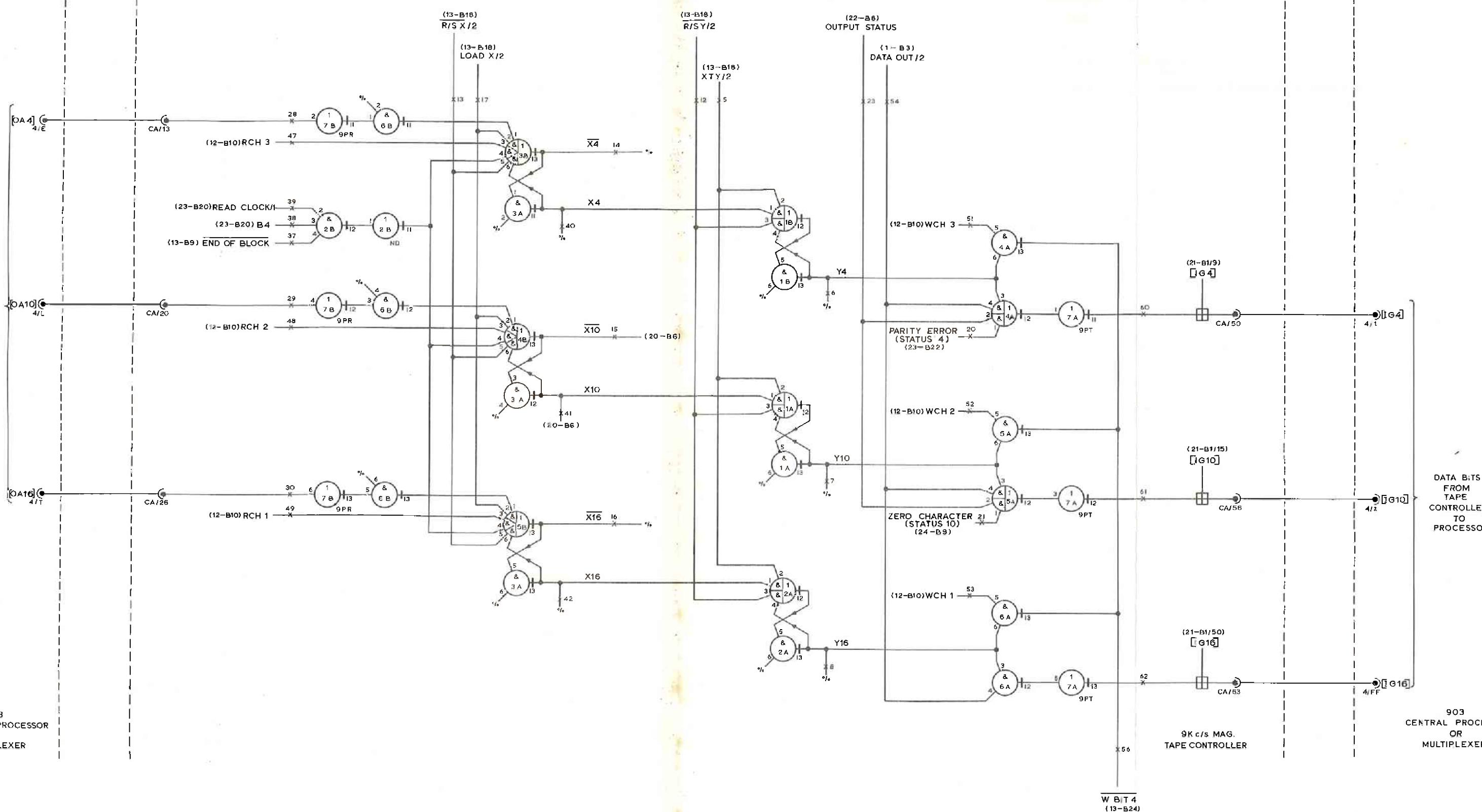


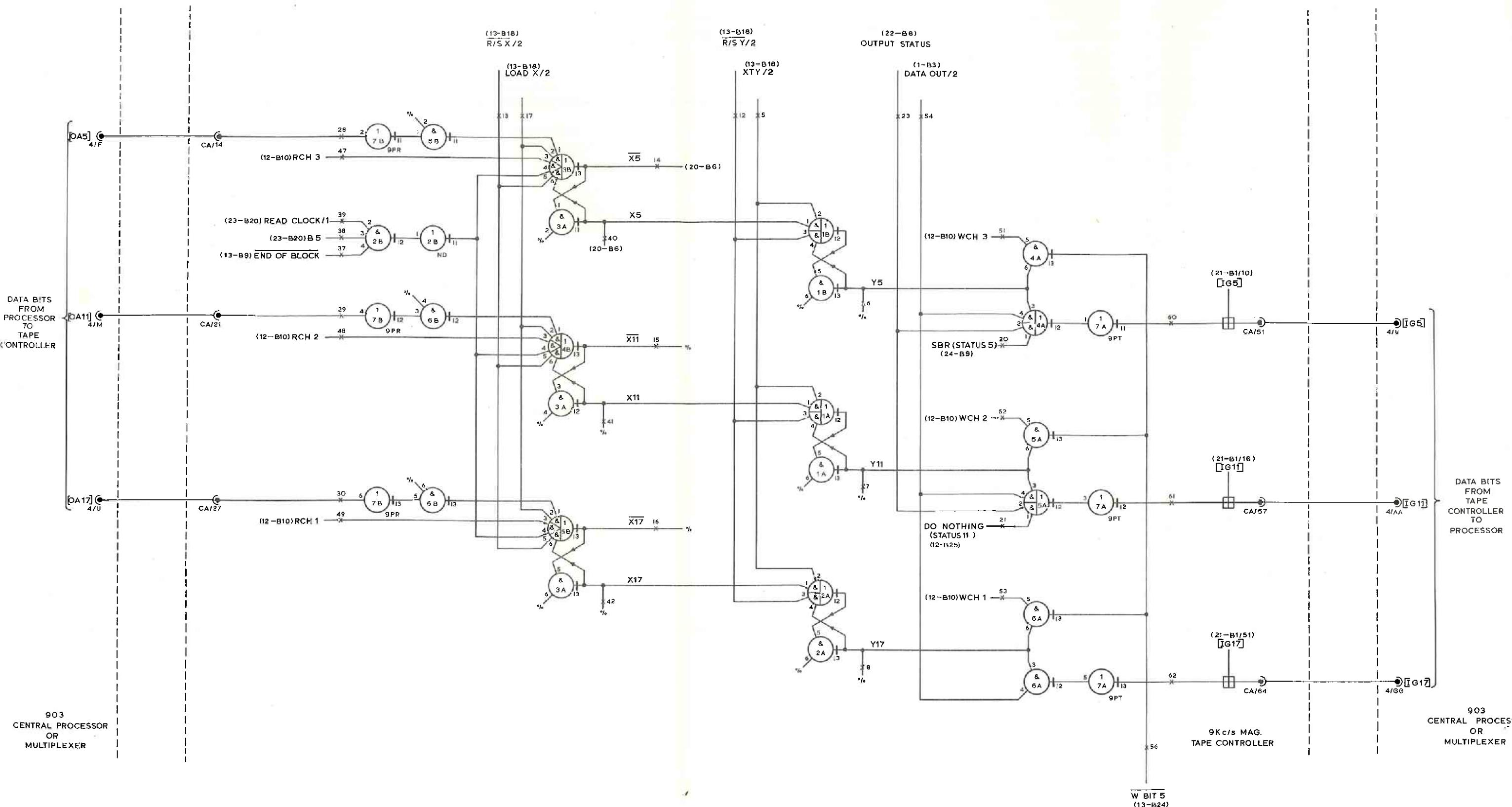




DATA BITS
FROM
PROCESSOR
TO
TAPE
CONTROLLER

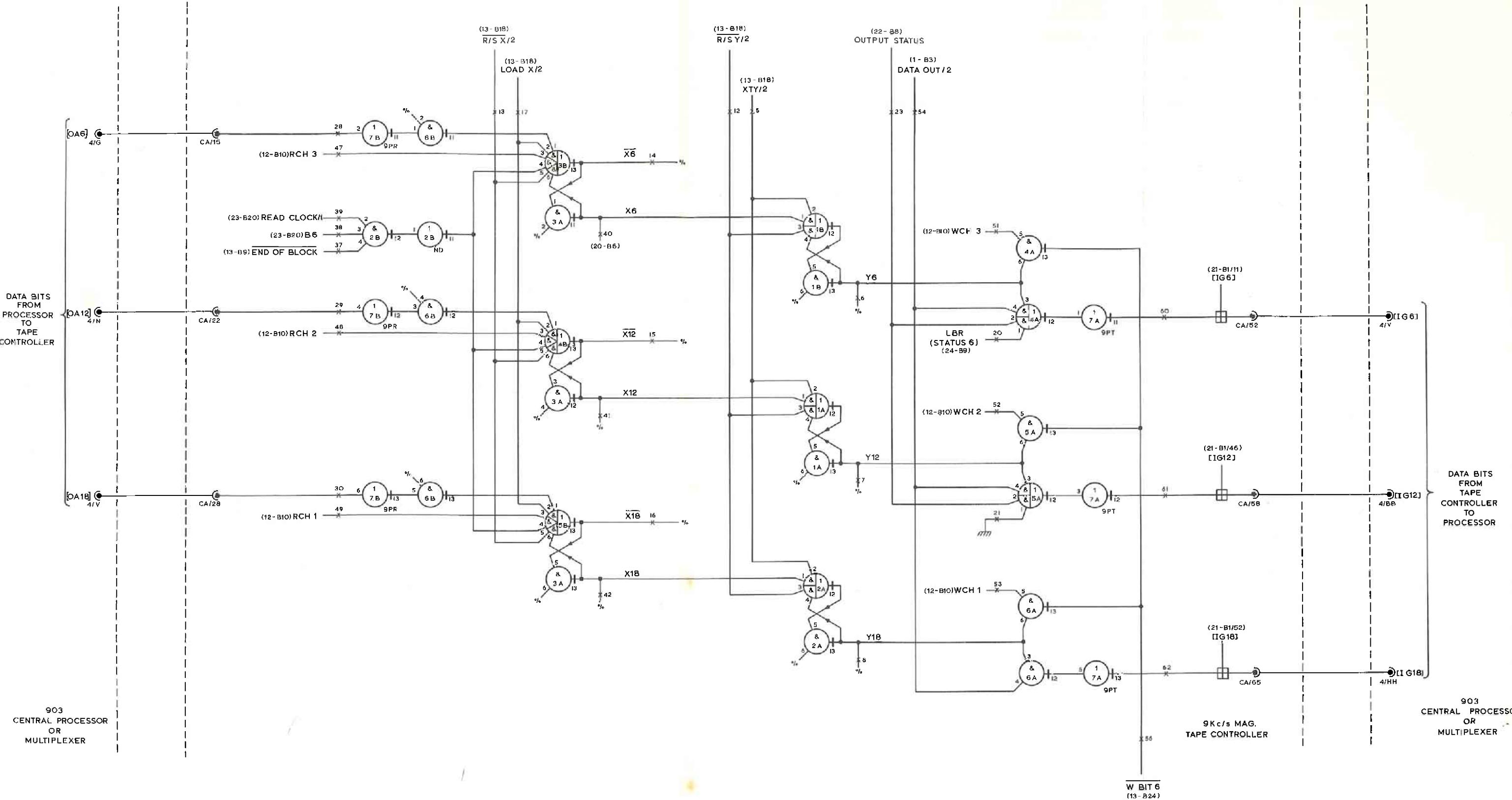
DATA BITS
FROM
PROCESSOR
TO
TAPE
CONTROLLER





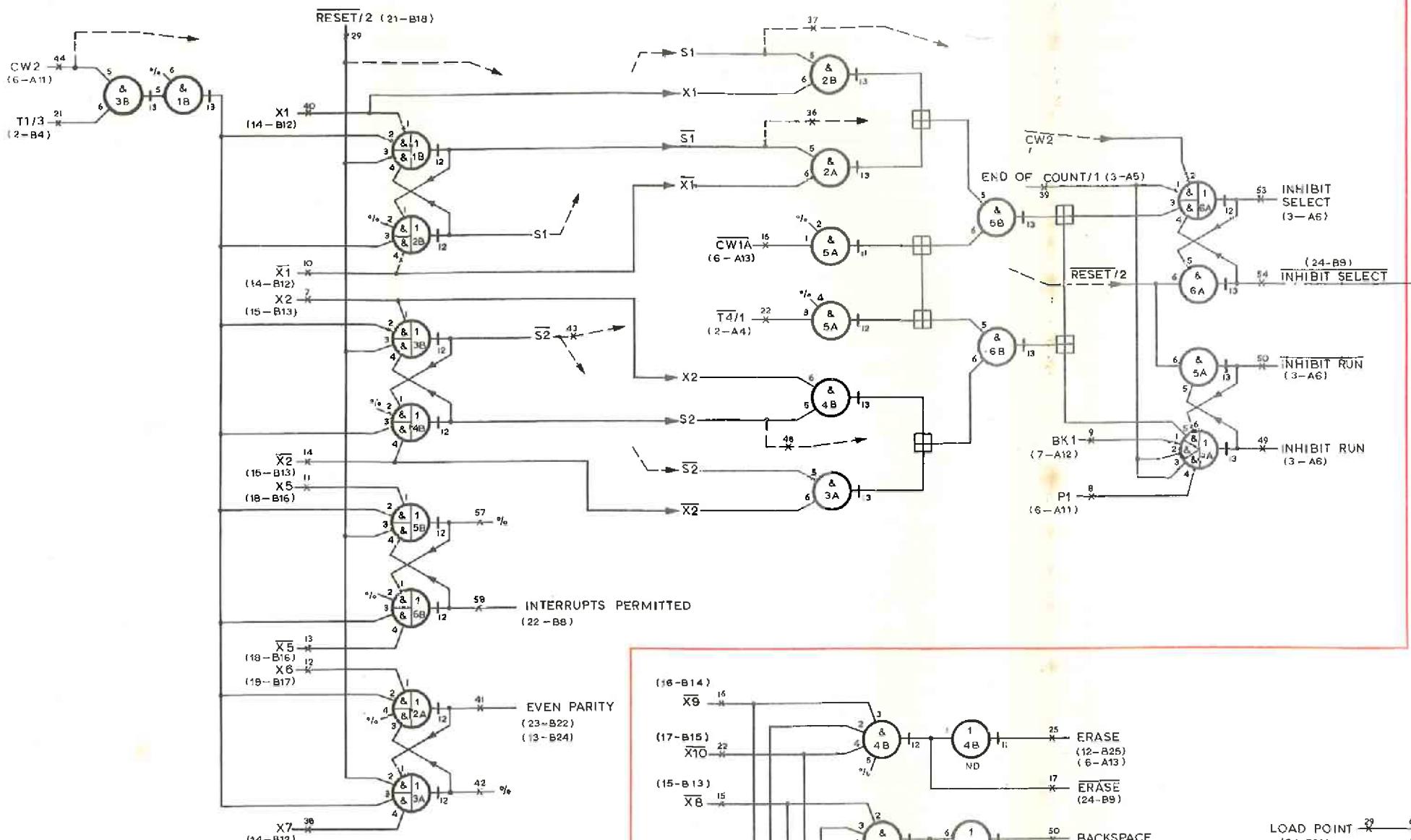
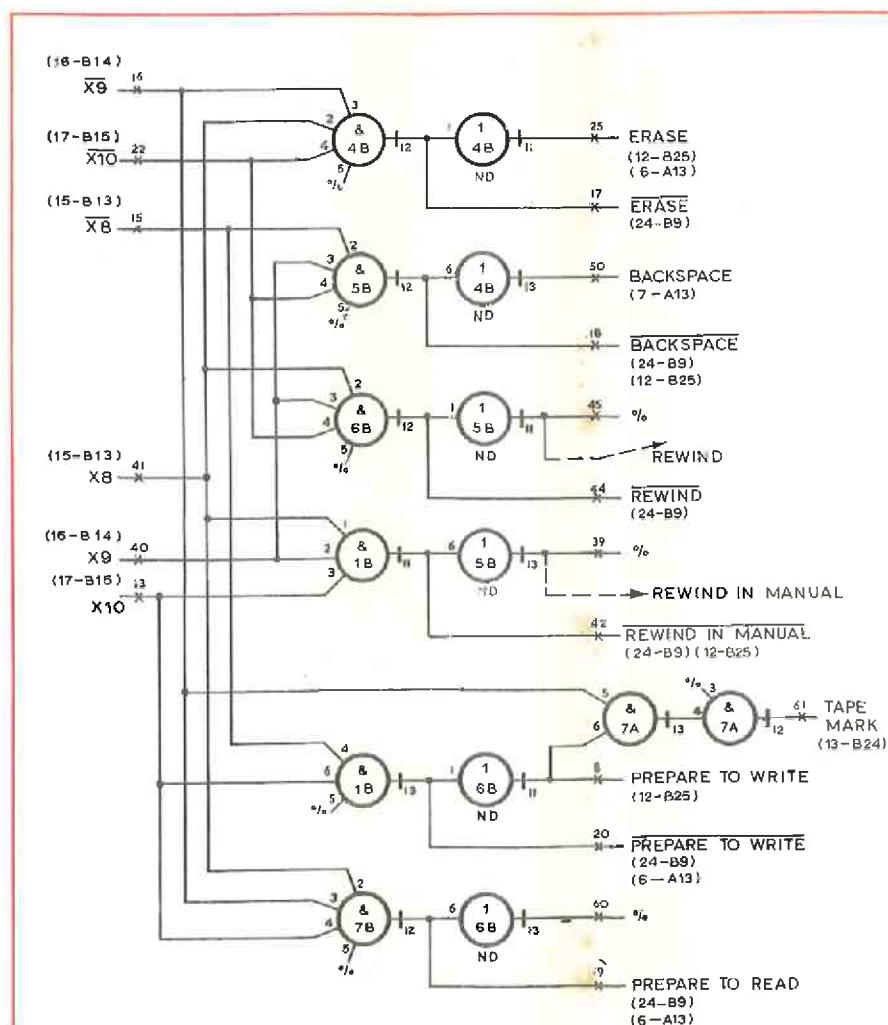
X AND Y REGISTERS -BITS 5,11,17(B16-DP302)

Figure 18 ISSUE 2



X AND Y REGISTERS — BITS 6,12,18(B17-DP302)

Figure 19 (ISSUE 2)

B6
DP198

CONTROL WORD DECODE AND REWIND CONTROL

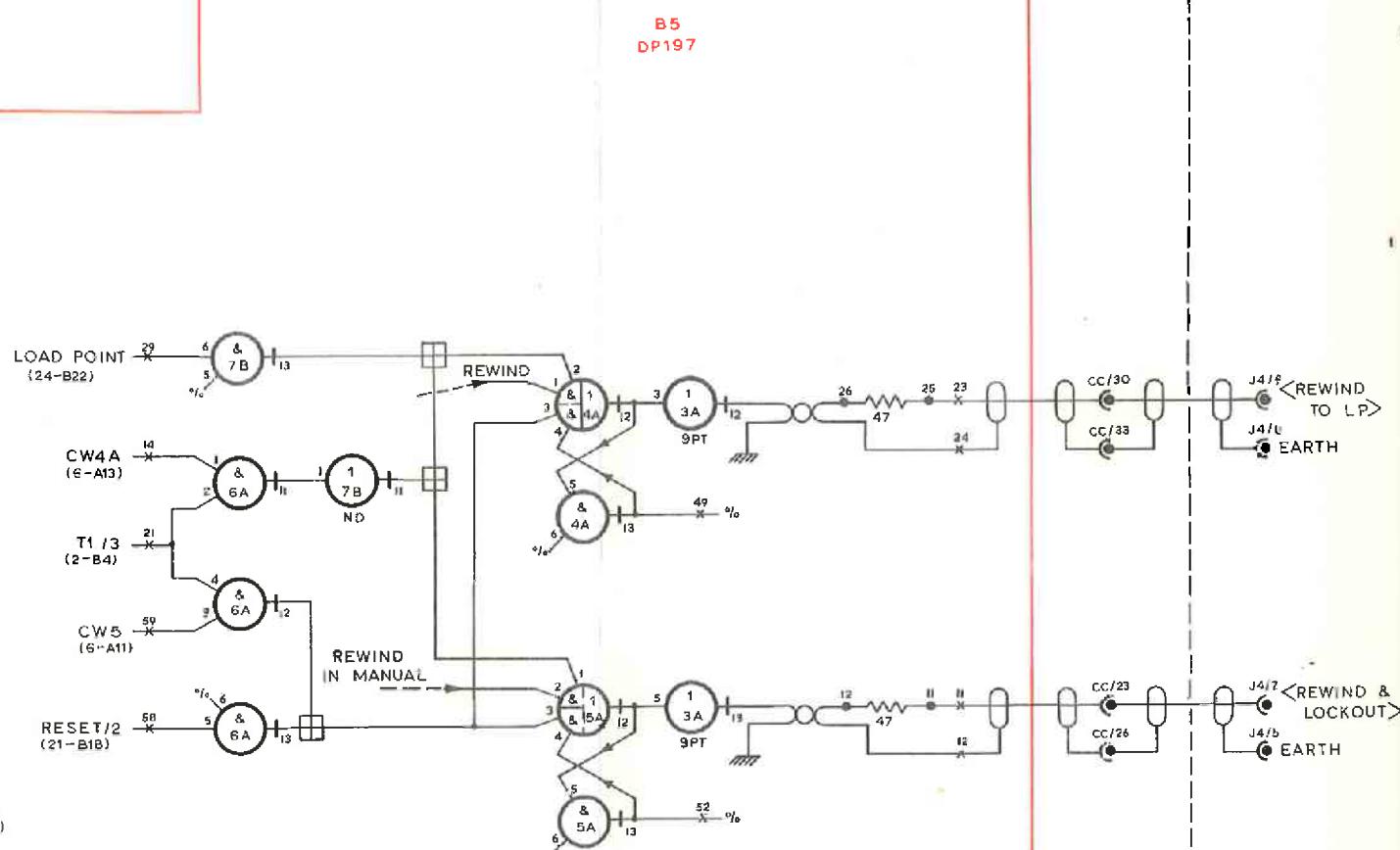
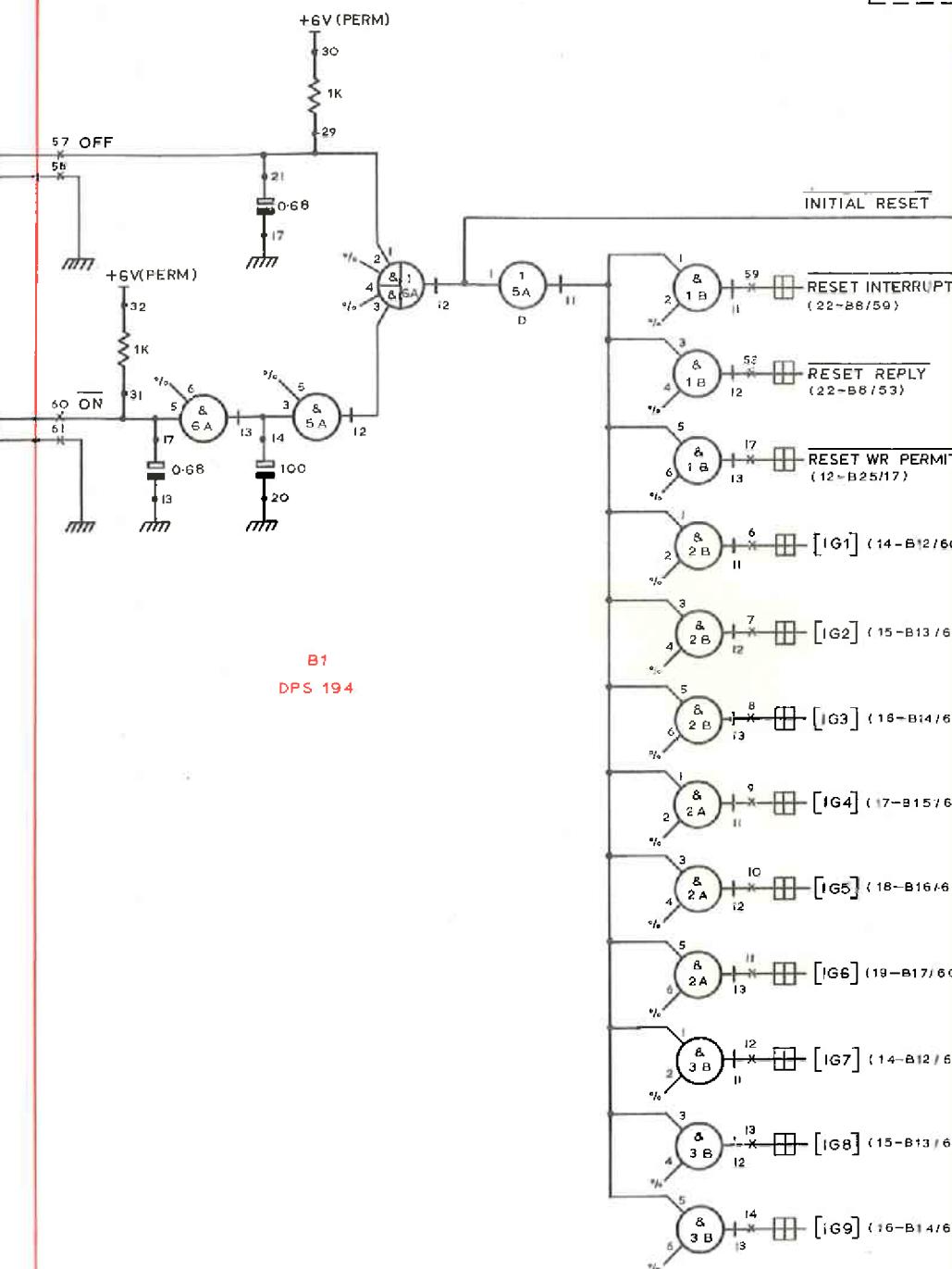
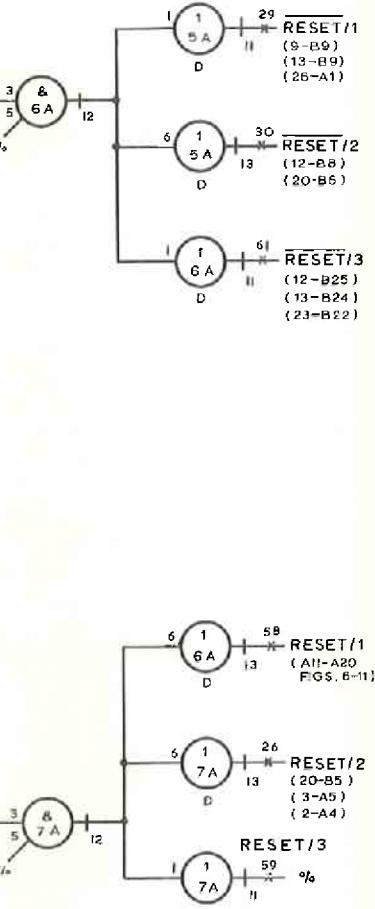
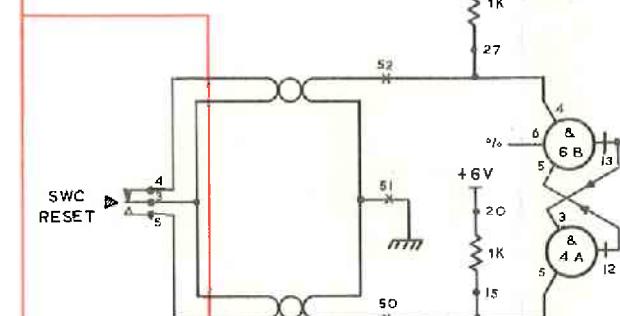
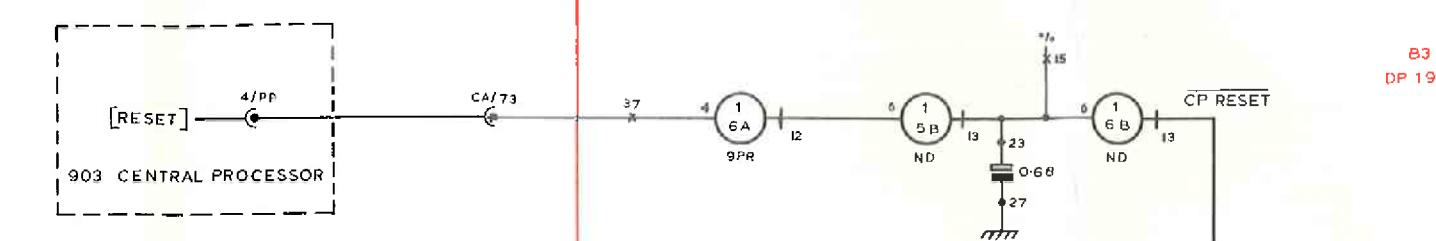
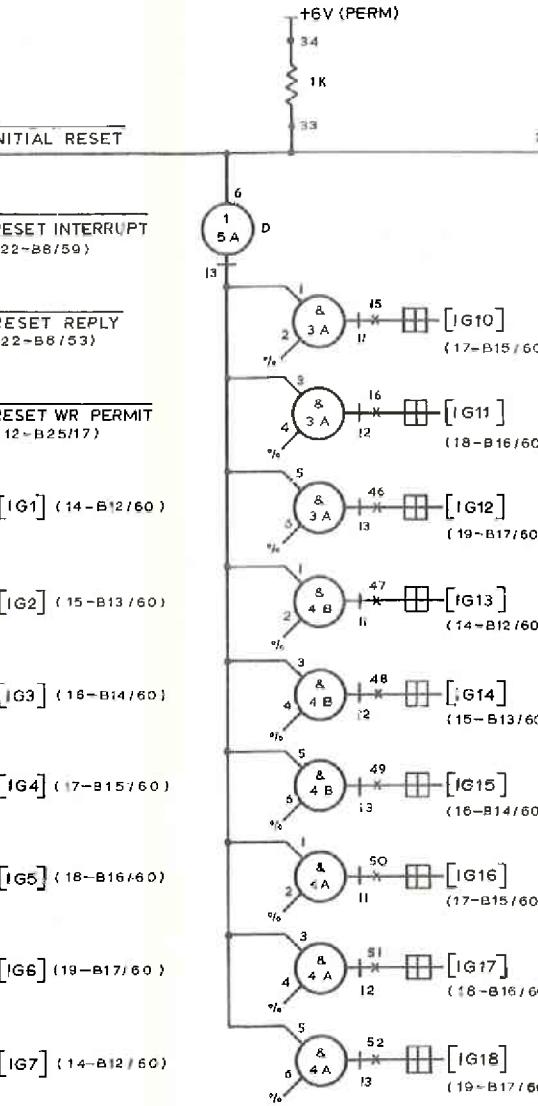


Figure 20 (ISSUE 2)

FRONT PANEL
(Fig. 25)



903 CENTRAL PROCESSOR



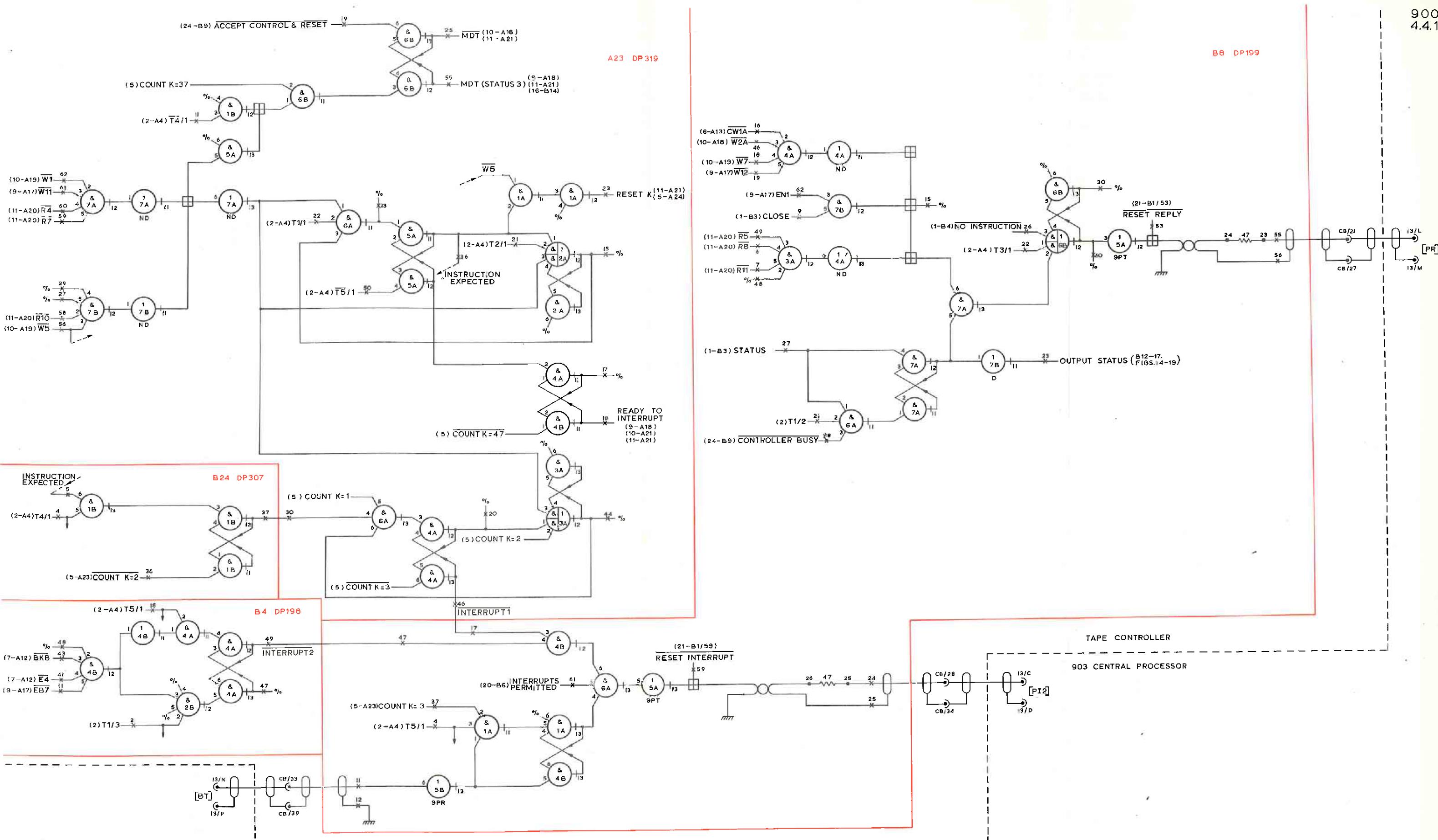
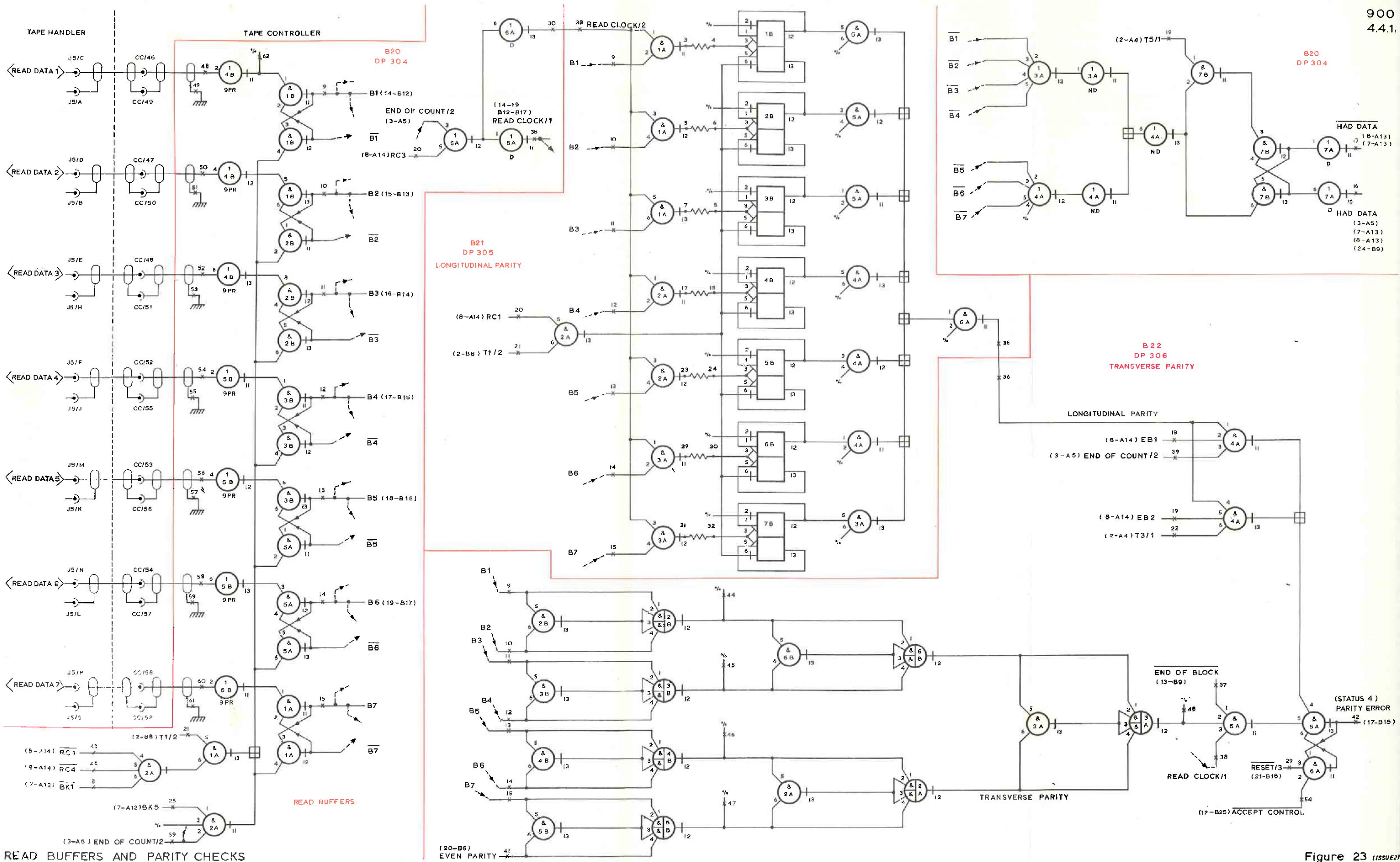
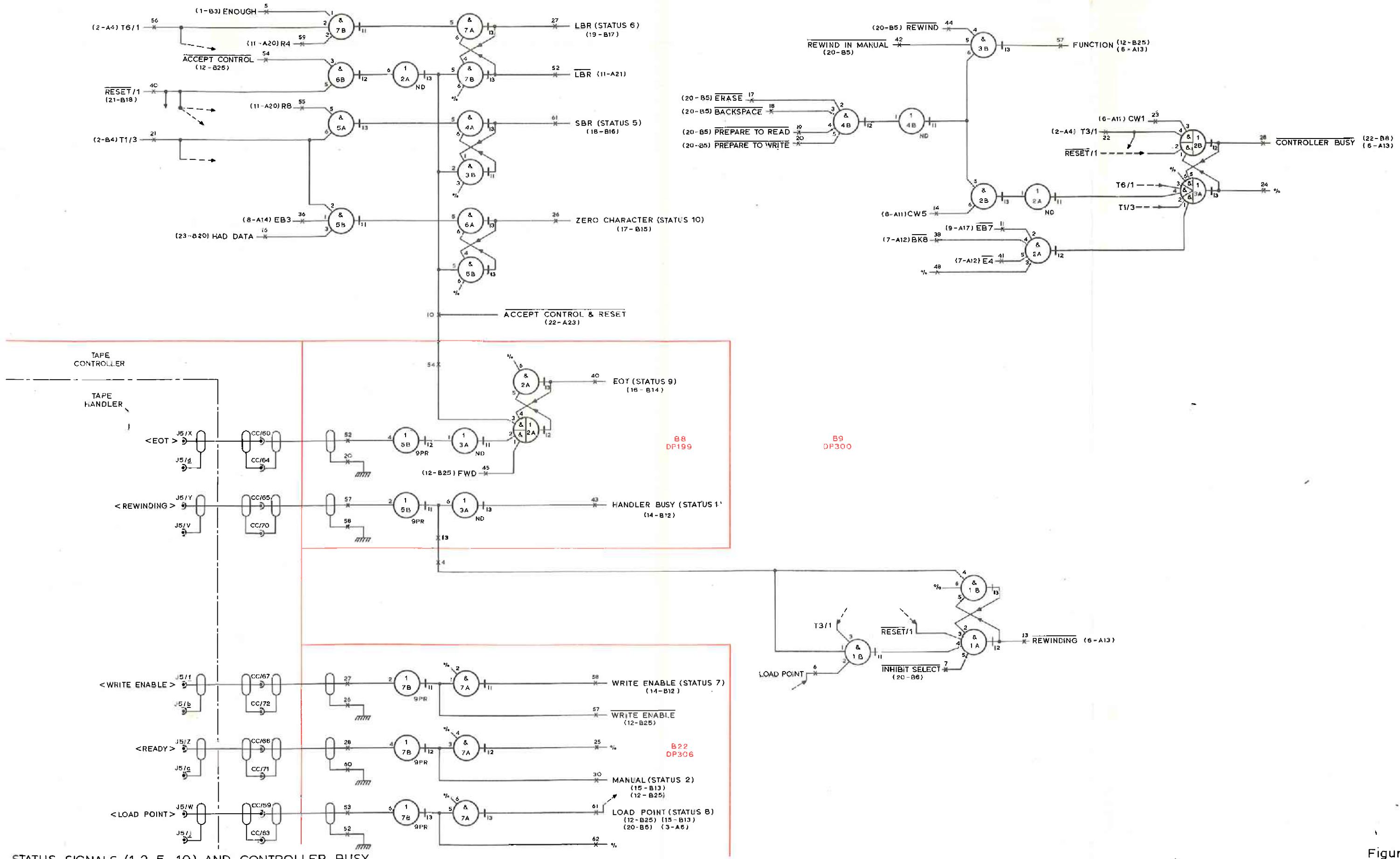


Figure 22 (ISSUE 2)

MDT (STATUS 3), REPLY AND INTERRUPT.





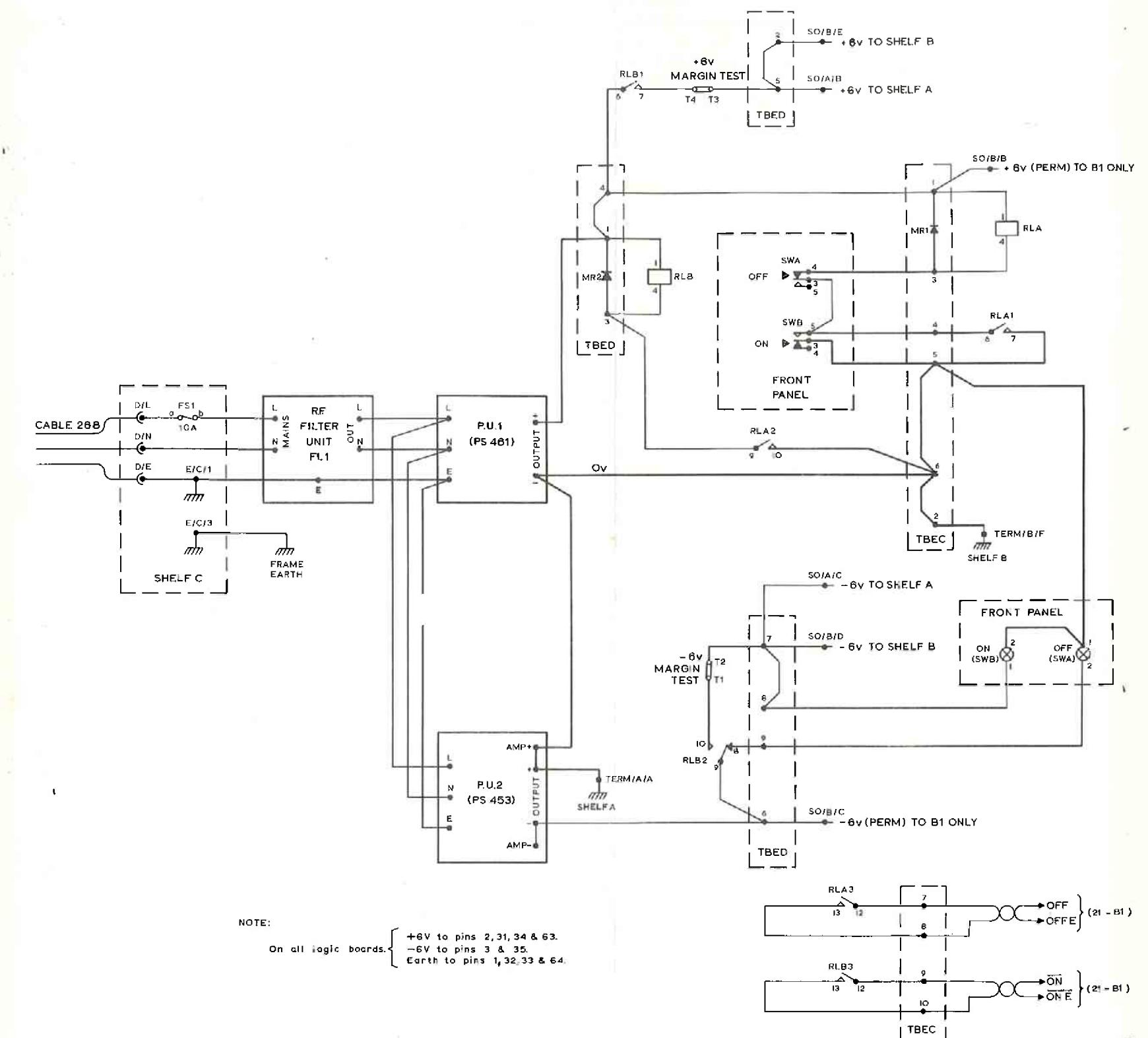


Figure 25 (ISSUE 2)

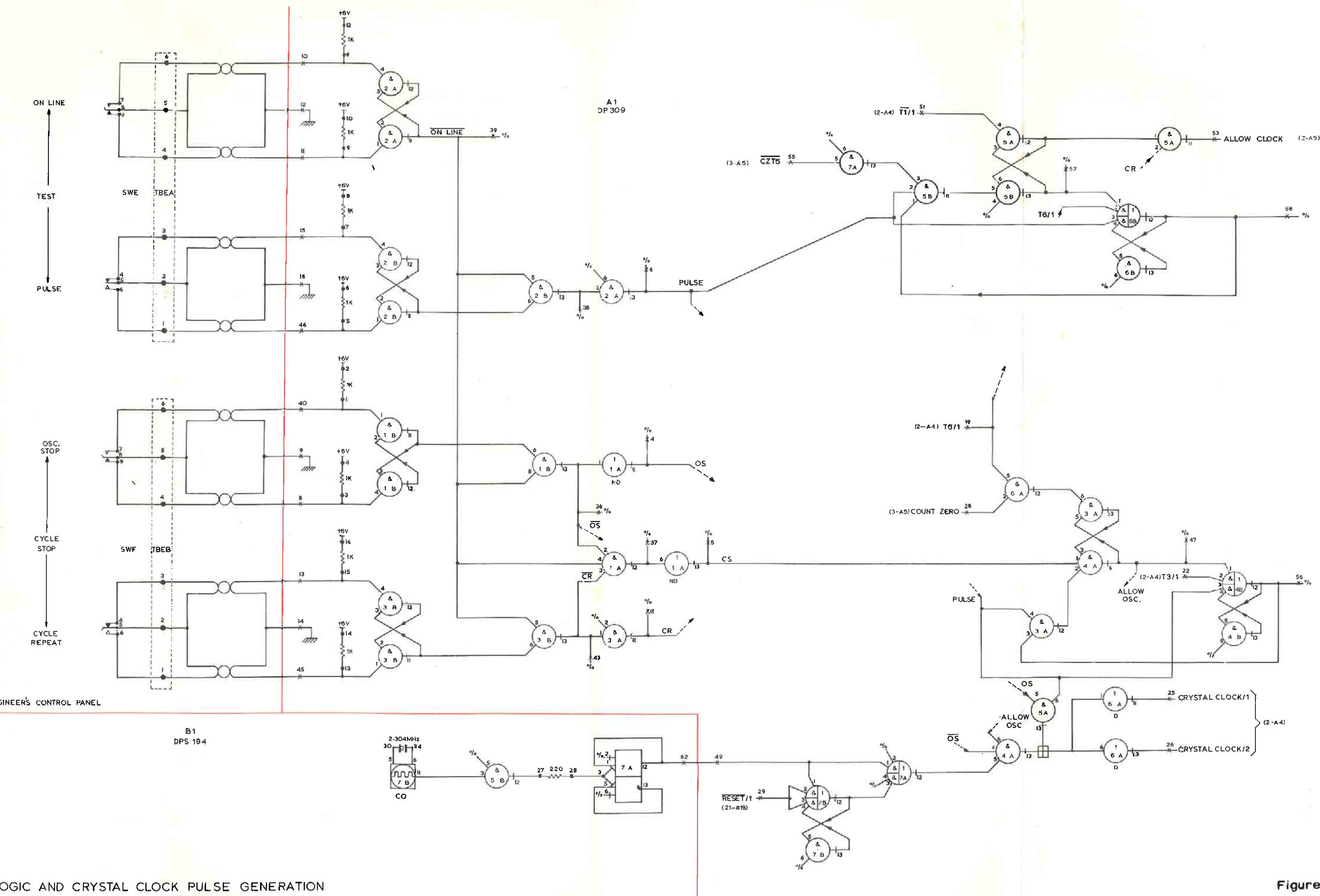


Figure 26 (Issue 2)