



1902/3 COMPUTER
HIGH SPEED CONT'L
LOGIC DIAGRAM.

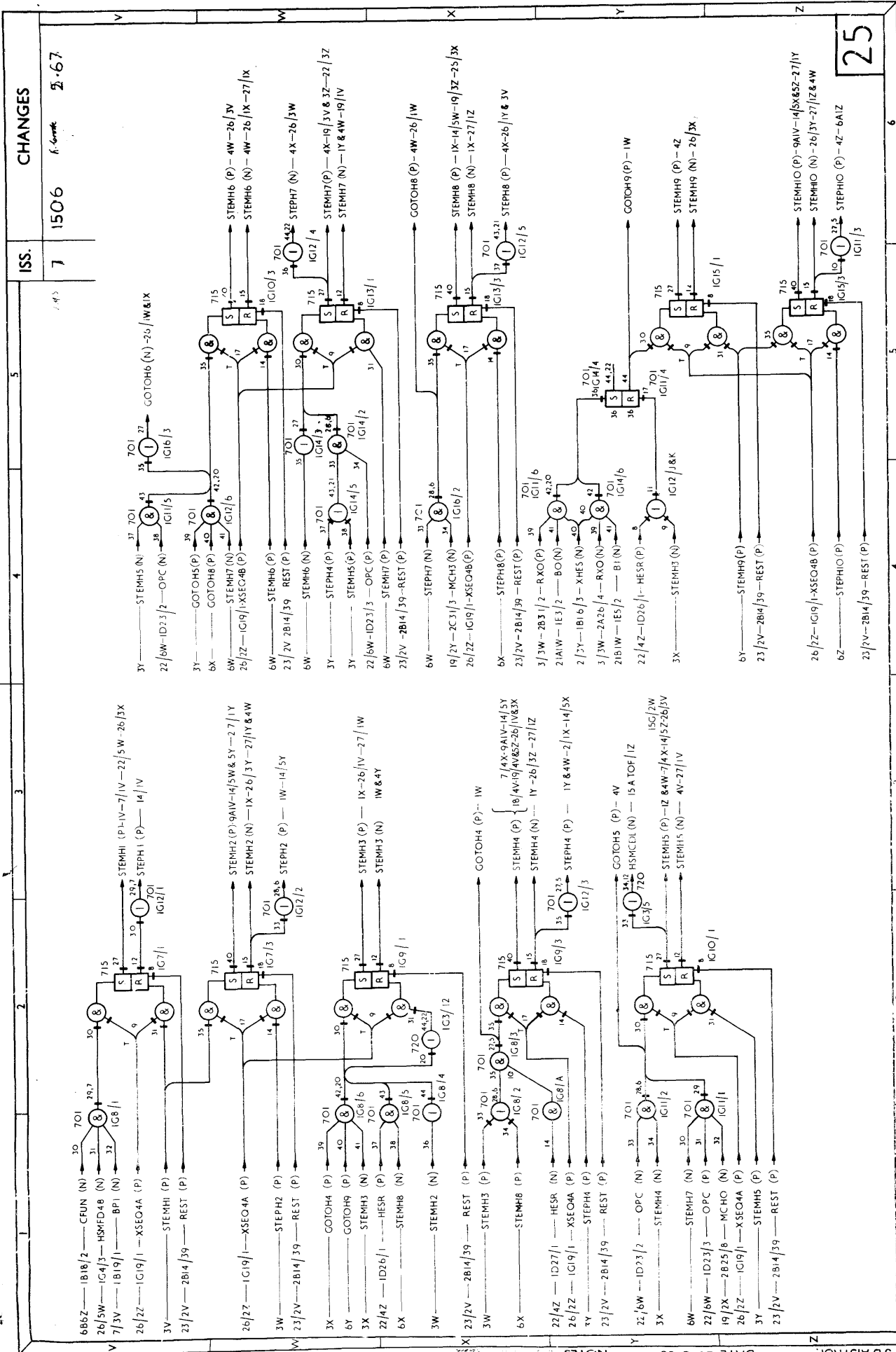
5015247 / 7
ISSUE SHEET

D
CAT.

ISSUE 5 5 1 1
SHEET 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

ISSUE NUMBERS OF OTHER SHEETS AT THE TIME OF ISSUING THIS SHEET.

25

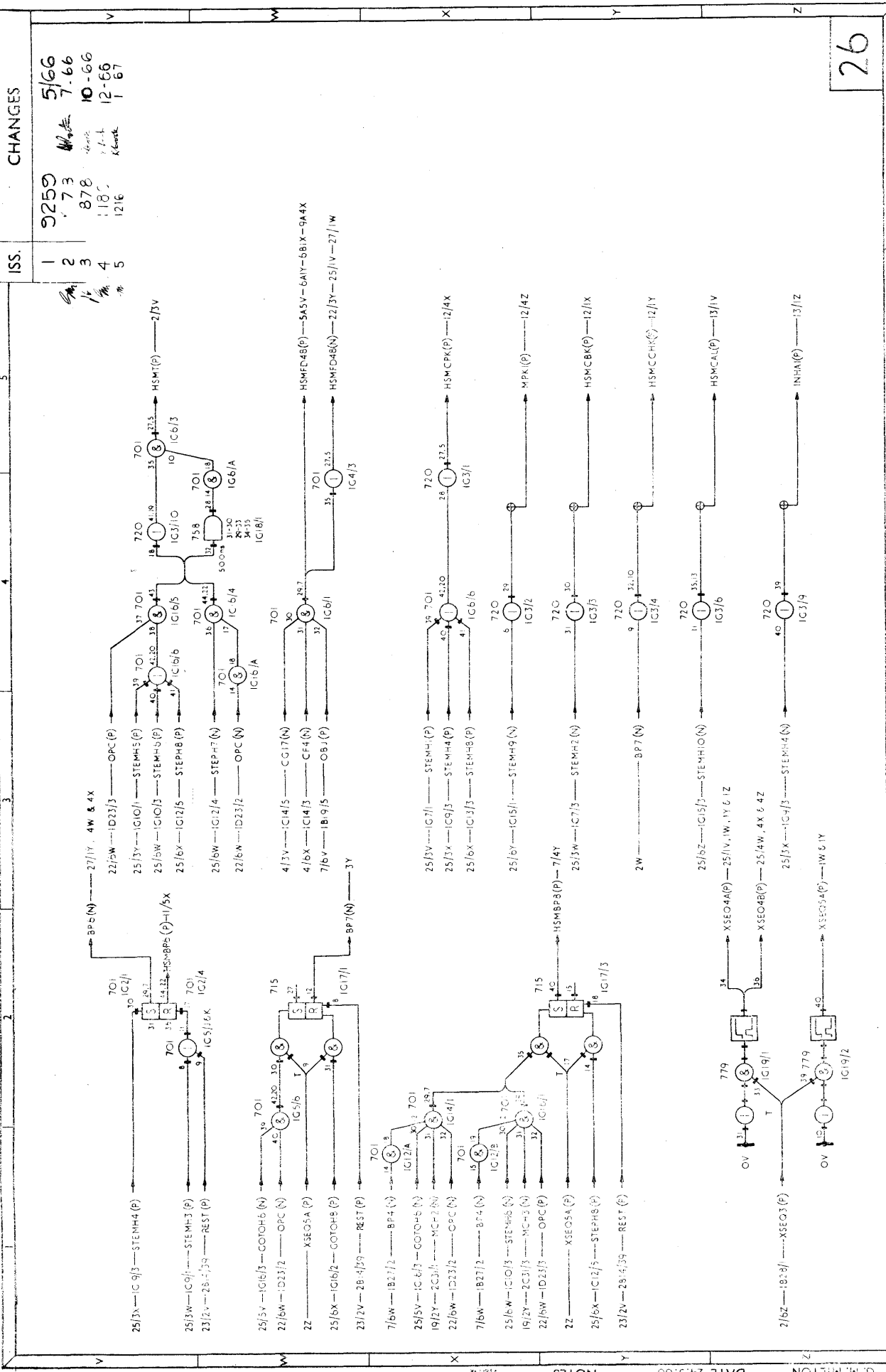


DRAWN BY JB AISTROP

DATE 29 9 66

NO 15

81329 E



ISS.	1	2	3	4	5
CHANGES	9259	73	878	1185	1216
	5/66	7/66	10-66	12-66	1/67

DRAWN BY G. M. MILTON

DATE 24.3.66

NOTES

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1902/3 COMPUTER
HIGH SPEED CONT'L
LOGIC DIAGRAM

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ISSUE SHEET 2

CAT D

ISSUE 5 5 1 1

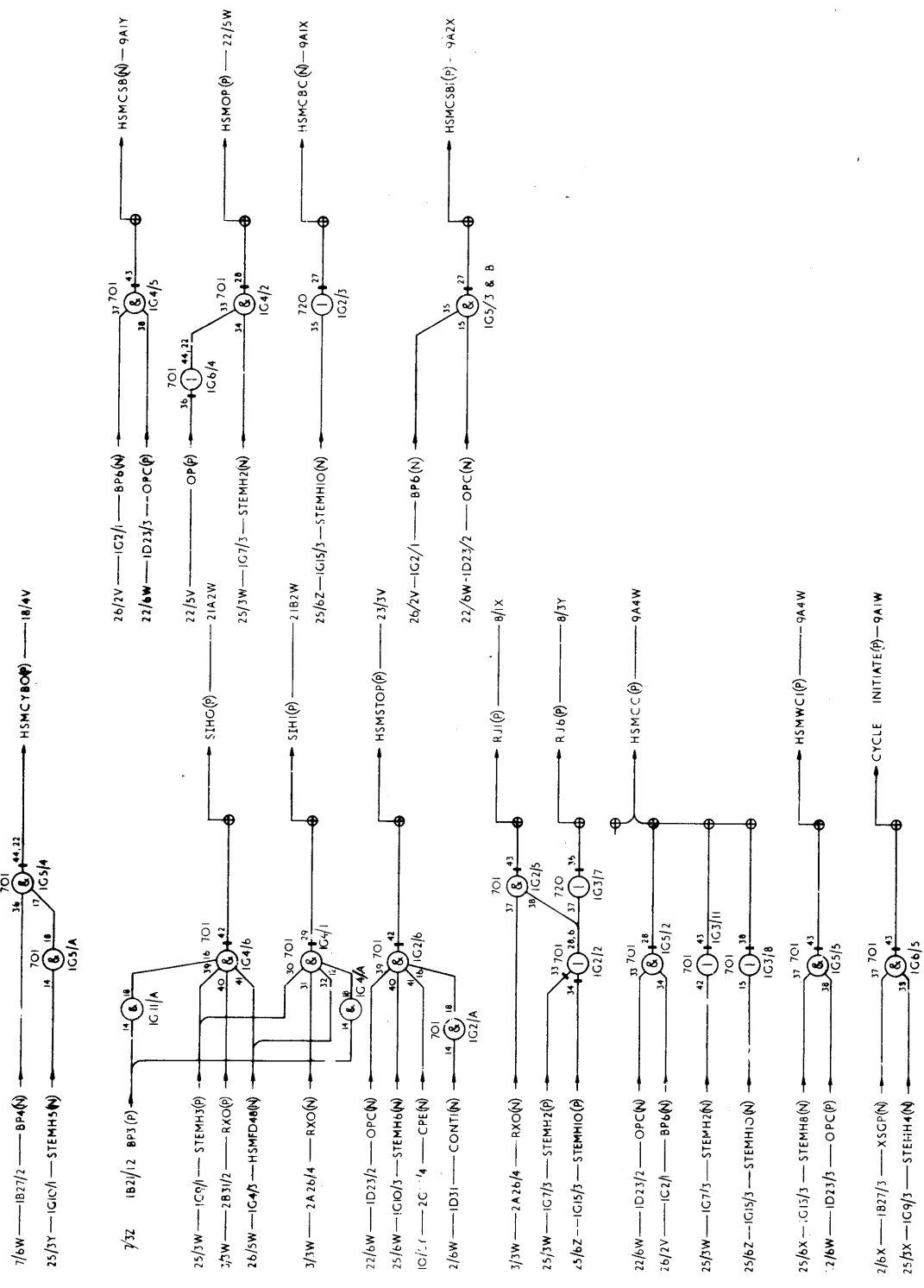
SHEET 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

ISSUE NUMBERS OF OTHER SHEETS AT THE TIME OF ISSUING THIS SHEET.

26

CHANGES

ISS.	1	9259	5166
	3	878	878
	5	1216	1216
	8	2477	2477



DRAWN BY 1. CENTRE	DATE 24 3 66	NOTES		1902/3 COMPUTER HIGH SPEED CONT'L LOGIC DIAGRAM		5015247/ 8		ISSUE	7 5 1 1
				DIAGRAM	ISSUE	SHEET	CAT.	D	3
				SHEET		SHEET		SHEET	
				1		2		3	
				4		5		6	
				7		8		9	
				10		11		12	
				13		14		15	
				16		17		18	
				19		20		21	
				22		23		24	
				25		26		27	
				28		29		30	
				ISSUE NUMBERS OF OTHER SHEETS AT THE TIME OF ISSUING THIS SHEET.					

5015247

ISS	CHANGES
1	9259 5/66
6	1454 2-67

HIGH SPEED MODE SPECIAL STEPS

FUNCTION 174 X/ :- X ODD USES TERMINAL 1
 X EVEN USES TERMINAL 0
 64+2 X TERMAD CONTAINS CW
 DATUM CONTAINS NEGATED
 EXTENDED COUNT

STEPH1
 RESET OPC
 RP → K
 TRIGGER RA
 RESET BP1
 GOTOH2

STEPH2
 64 → RJ
 2 → RJ if RX0
 READ
 CONTINUE CYCLE
 RB → K
 TRIGGER RP
 TRIGGER RN

OP to OPC
 GO to H3

STEPH3
 GOTOH3 if H3 • GOTOH4 • GOTOH9
 GOTOH4 if HESR
 GOTOH9 if HESR • ((B1 • RX0) + (B0 • RX0))
 RESET BP6
 DUCK A

STEPH4
 SET BP6 FROM H4
 COUNT RP → P
 TRIGGER BP4
 INH RQ 0-14, 22, 23 TO MNUL
 SPECIAL READ
 GO to STEPH7 if INPUT
 GO to STEPH5 if OUTPUT
 SET ADC TO 11

STEPH5
 RD → L
 CYB0 if BP4T
 TRIGGER RD
 TRIGGER BP4
 ISSUE T if INPUT
 GO to STEPH7 if INPUT
 GO to STEPH6 if OUTPUT SET BP7 if OUTPUT
 in STEPH6

STEPH6
 STOP if STORE PARITY ERROR in OP
 SET BP8 if BP4 • MCH3 • IP

GO to STEPH7
 ISSUE T if INPUT
 BP6 DOES:
 RN → SAD
 INH SIN → B if INPUT
 CONTINUE CYCLE if OUTPUT

BP7 DOES:
 RBj → K

BP8 DOES:
 ISSUE L
 + REPRESENTS LOGICAL OR
 • REPRESENTS LOGICAL AND

ISSUE 111
 SHEET 123456789
 ISSUE NUMBERS OF OTHER SHEETS AT THE TIME OF ISSUING THIS SHEET

D CAT
 SHEET 4

5015247 / 6
 ISSUE
 DIAGRAM

1902/3 COMPUTER
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 LOGIC DIAGRAM



CHANGES

ISS.	1	9250	566
	6	1454	2-67

STEPH7

RESET HESR
 BIN → Q, QFAN } if INPUT
 INH RMS → Q }
 TRIGGER RBj
 ISSUE T if OUTPUT
 COUNT ADC @ XSEQ
 GO to STEPH5 if INPUT • MCHO
 GO to STEPH6 if MCH1+MCH2+(MCHO • OUTPUT)
 GO to STEPH8 if MCH3
 SET BPB if BP4 • MCH2 • OP

STEPH8

WRITE if INPUT
 ISSUE T if INPUT
 CONTINUE CYCLE
 RESET BP7 with GOTOH8
 RESET BP8 at END OF STEP
 RP → K, TRIGGER RN, CLEAR ADC
 STEPH4 if HESR
 STEPH3 if HESR

STEPH9

RP → K, TRIGGER RB
 GO to STEPH10

STEPH10

64 → RJ
 2 → RJ if RX0
 READ, CONTINUE CYCLE
 RA → L, TRIGGER RP
 GO to STEP4
 INH SIN → B, INH CLEAR B

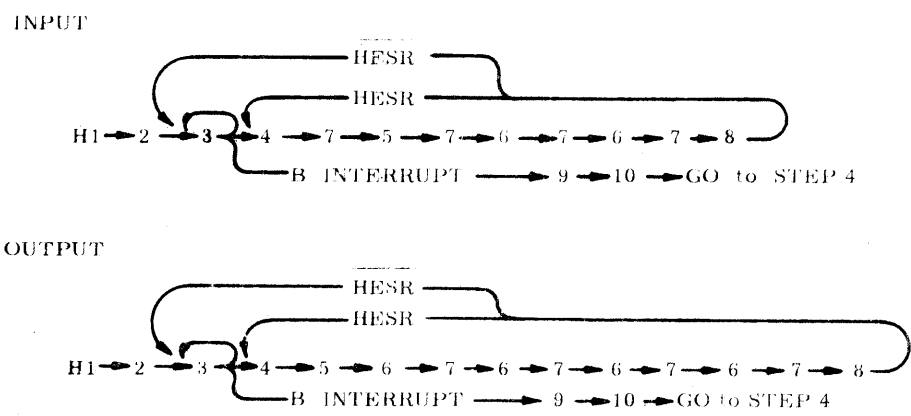
STEP4

AS NORMAL, BUT INH WRITE

 C is FALSE THROUGHOUT 174 FUNCTION
 A is TRUE EXCEPT WHERE DUCKED

+ REPRESENTS LOGICAL OR
 • REPRESENTS LOGICAL AND

STEP SEQUENCE



ISSUE 1 1 1 6
 SHEET 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
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ISSUE 6 / 5 D
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