

DEUCE Programme No. 675 (ZC14T/1)  
64-Column Brick Assembly.

SUMMARY.

ZC14(No. 360) is an interpretive routine intended for use instead of G.I.P. in programmes where the small additional programming effort is considered worthwhile in terms of the saving in operating time. It is most advantageous in circumstances where interpretive time forms a significant part of the total time, e.g. in matrix programmes operating many times on small matrices. ZC14 saves about 0.8 secs. over G.I.P. per brick (section) interchange.

The present programme is an extension of ZC14 to enable 64-column bricks to be used.

A modification is necessary to enable either ZC14 or ZC14T/1 to be used on a Mark 2A machine - this is done at the expense of losing TS14 between bricks.

DEUCE Programme No. 675 (ZC14T/1)

64-Column Brick Assembly

OPERATING INSTRUCTIONS.

These are the same as for ZC14 except the read in section:

Each brick (or section) starts on a new triad, and within a section, triads are arranged so that the lowest numbered D.L. is on the last triad.

Triads of bricks may be punched either,

- (i) Double-field, with double-field fillers, or as a minimum, the  $\alpha$ -field D.L. number punched as destination ( $P_{10-13}$ ) in the  $X_{\beta}$  row and similarly the  $\beta$ -field D.L. number in the  $O_{\beta}$  row. The higher numbered D.L. must be in the  $\alpha$ -field.
- or (ii) Single-field, necessitating a completely blank  $\beta$ -field and normal single-field fillers or, as a minimum, the D.L. number punched as destination ( $P_{10-13}$ ) in the  $X_{\alpha}$  row.

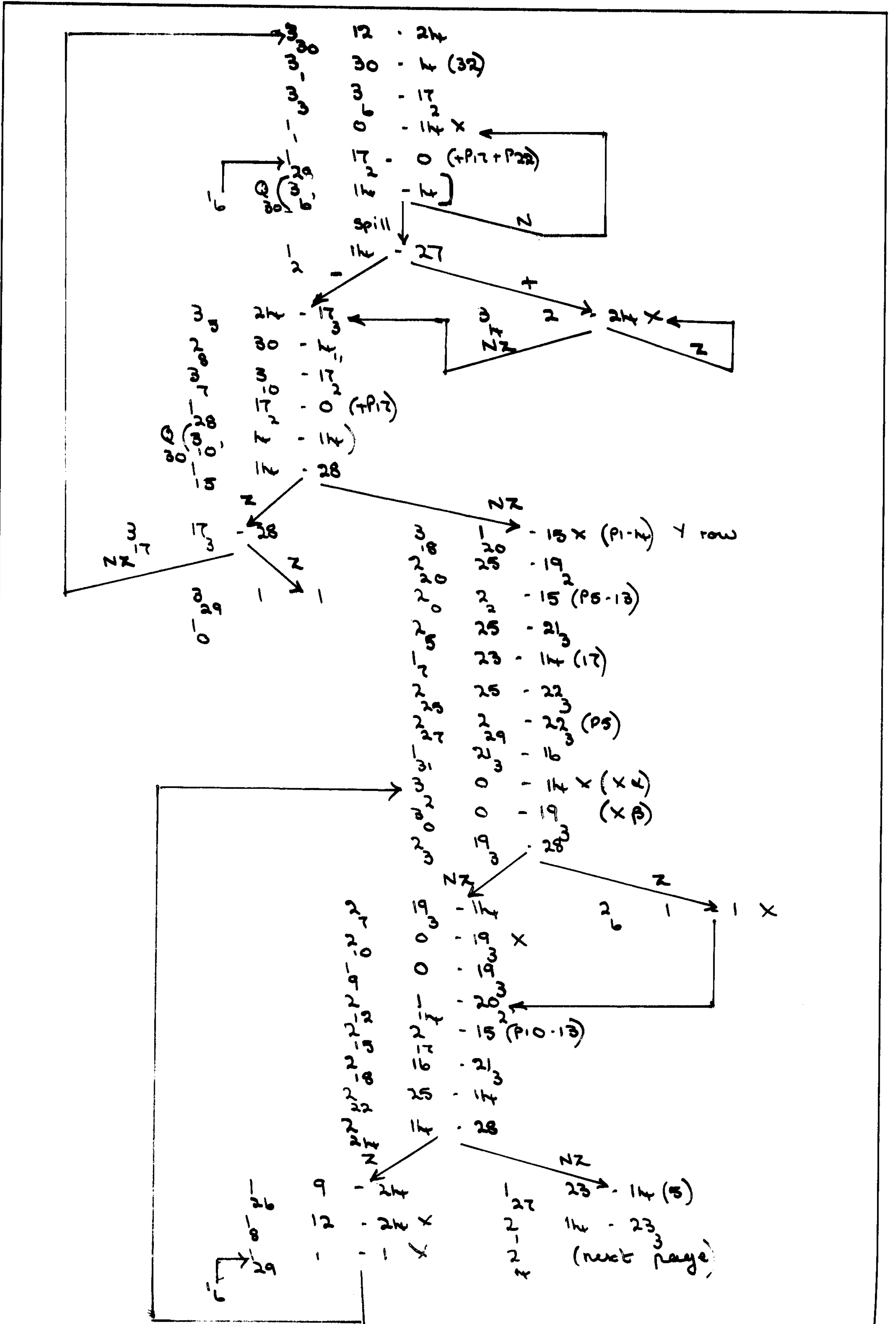
Parameter cards are punched in the  $\alpha$ -field only.

Note.

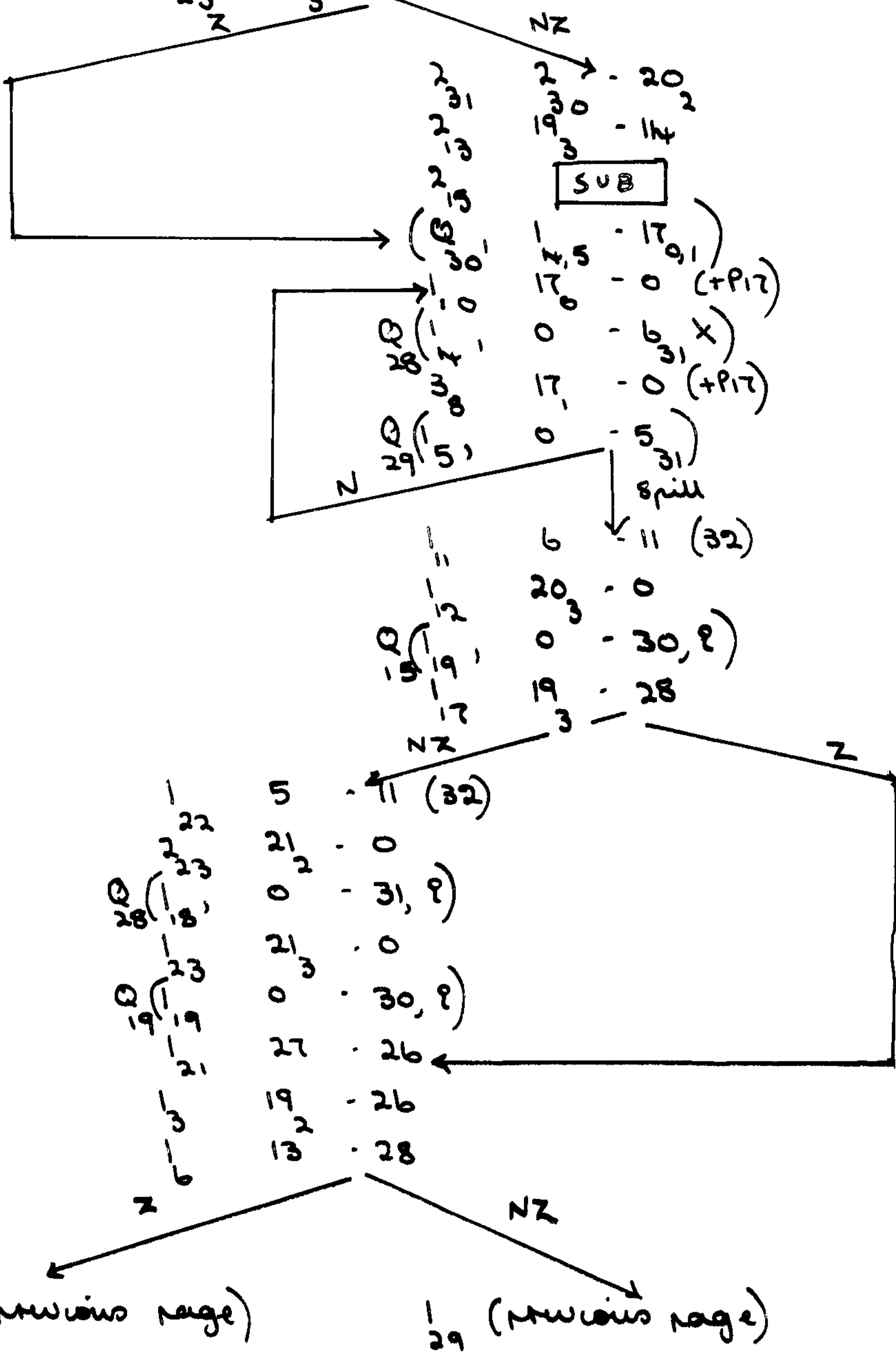
Modification for use on Mk 2A machine, sacrificing TS14 between bricks: Alter  $1_4$  (Track 15/14) to 1, 27-26, 0, 1.

February, 1961.

Miss A. Birchmore, L.C.S., Queens House, London.



2 <sub>4</sub>	23	- 14 (4 mcs.)
2 <sub>9</sub>	14	- 13
2 <sub>11</sub>	21	- 14
2 <sub>14</sub>	1 <sub>3</sub>	- 15 (P5-8)
2 <sub>16</sub>	1	- 21
2 <sub>19</sub>	18,19	- 22 <sub>2,3</sub>
2 <sub>21</sub>	23	- 14 (4 mcs.)
2 <sub>26</sub>	25	- 22 <sub>2</sub>
2 <sub>28</sub>	20 <sub>2</sub>	- 0
2 <sub>30</sub>	21	- 20, d X)
2 <sub>31</sub>	20 <sub>2</sub>	- 0
2 <sub>32</sub>	0	- 31, P)
2 <sub>33</sub>	19	- 28



28 (previous page)

29 (previous page)

D.L. 1. Track Card Nos. 5-7								D.L. 2. Track Card Nos. 2-4 (B)								D.L. 3. Track Card Nos. 2-4 (d)								
mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T	
		3					29																	
0								0		22	15		0	3			0	20	19	27	1			
1		10	14		0	25	X	1		214	23		0	1			1	330	4	9	1	0		
2		314	27		0	0		2		P5-13							2	30	14	0	28	X		
3		119	26		1	1		3		219	28		0	1			3	13	17	1	28			
4		30	6		1	10	X	4		223	14	9	0	3			4	22	24	0	30	X		
5		10	5		0	(15)	11	5		125	21		0	0			5	224	17	0	1			
6		113	28		0	20		6		21	1		0	4	X		6	114	4	31	(14)			
7		223	14	9	0	16		7		219	14		0	1			7	13	17	1	19			
8		112	24		0	19	X	8		330	4		1	29			8	117	0	19	19			
9		20	19		30	1		9		214	13		0	0			9							
10		117	0		16	16		10		10	19		1	29	X		10	14	14	31	15			
11		16	11	9	0	31		11		221	14		0	1			11							
12		020	0		1	1		12		21	20		0	1			12							
13								13		219	14		0	0			13							
14		221	20	d	0	28	X	14		21	15		0	0			14							
15		314	28		0	0		15		22	15		0	1			15							
16		P5-8						16		21	21	d	0	1			16							
17		119	28		0	2		17		P10-13							17	317	28	0	10			
18		10	31	9	0	25		18		216	21		1	2			18	21	15	0	0	X		
19		10	30	9	0	0		19		225	22		0	0			19							
20		P1-4						20		225	19		0	10			20							
21		127	26		0	12		21		223	14	9	0	3			21							
22		25	11	9	0	31		22		225	14		0	0			22							
23		021	0		26	26		23		021	0		3	3			23							
24								24		114	28		0	0			24							
25		219	28		0	3		25		225	22		0	0			25							
26		19	24		0	12		26		225	22		0	0			26							
27		223	14	9	0	4		27		12	22		0	2			27							
28		317	0	9	0	0		28		020	0		0	0			28							
29		31	1		0	3	X	29		P5							29				0			
30								30		11	17	d	4	10			30	312	24	0	1			
31		321	16		0	1		31		22	20	29	12				31							