

DEUCE Programme No. 670 (ZV06T/1)

Calendar.

SUMMARY.

This demonstration programme reads a date (A.D. only) set on the I.D., calculates the day of the week on which it falls and displays the answer in the scope. It is protected against the setting of a non-existent day, and allowance is made for the change from the Julian to the Gregorian Calendar on 3rd-13th September, 1752. Except on Mark 0 machines this programme supersedes ZV06 (No. 5) because it is much easier to operate and is not restricted to the 19th and 20th centuries.

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OPERATING INSTRUCTIONS.

- (1) Initial input programme, cards 0-15
- (2) Switch scope to DL 5 and line up with instructions at top of display.
- (3) Switch scope to DL 10.
- (4) Set 'I.D. Clear' switch UP.
- (5) Programme stops on 5, 0-28 (while all 8 digits are set).
- (6) On I.D. Set the eight digits of the date using the P_1 - P_{10} keys to represent the digits 0-9. The sequence is day, (2 digits), month, (2 digits), year, (4 digits) so that 9th March, 1960 is set as 09031960.
- (7) The Day is displayed in the scope and also on O.S. with P_1 - P_7 lights corresponding to Sun-Sat.
- (8) Start next case from (5).

Failures.

If a non-existent date is set the buzzer sounds momentarily, "NUTS" is displayed in the scope, and the programme returns to (5) for the date to be set all over again. The actual nature of error is indicated briefly on the O.S. as follows,

Zero indicates the setting of either a zero day or month.

12P indicates the setting of a month > 12.

28P indicates the setting of February 29th in a non leap year.

29P indicates the setting of a day > 29 in February.

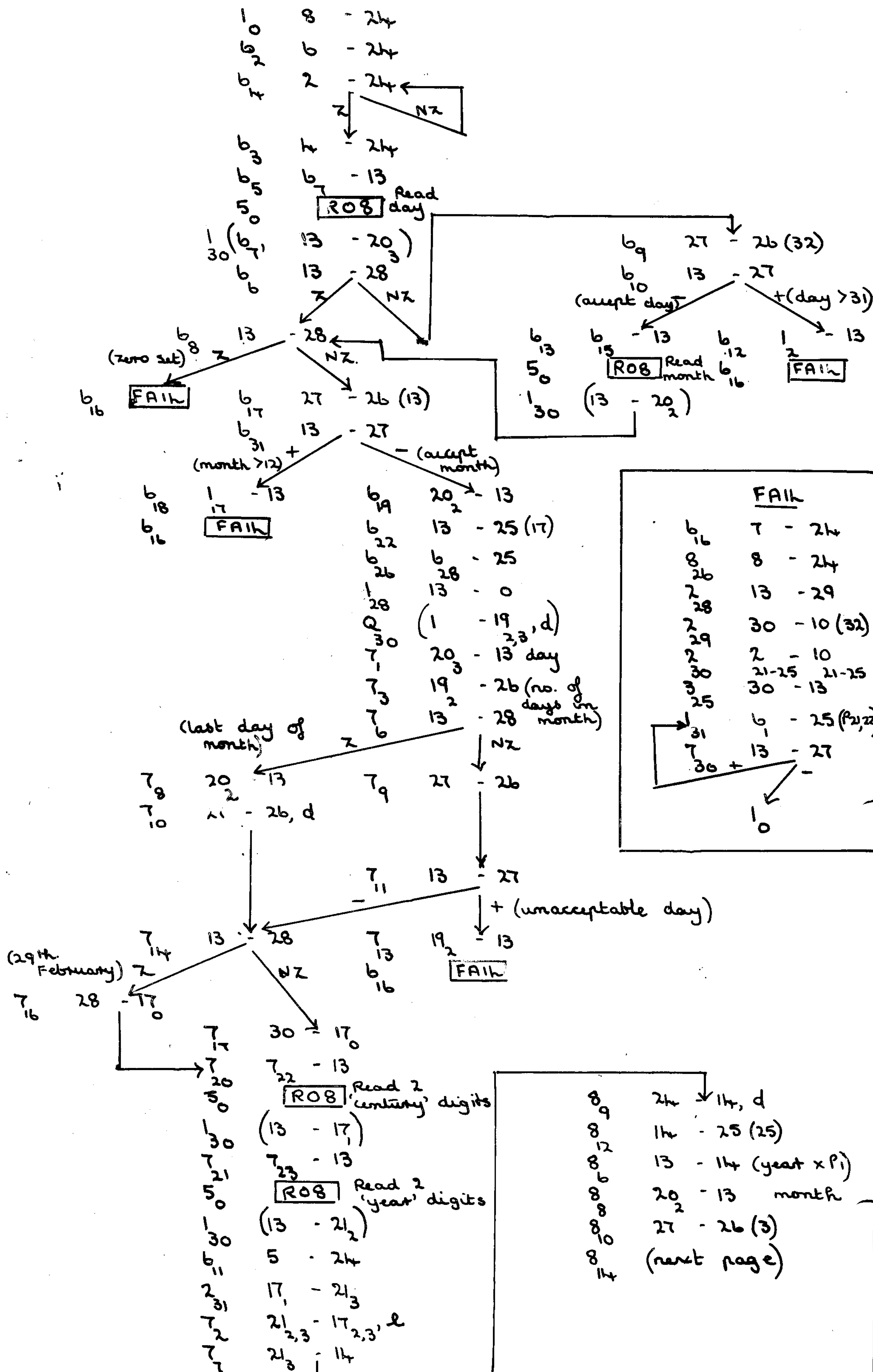
30P indicates the setting of a day > 30 in a month of 30 days.

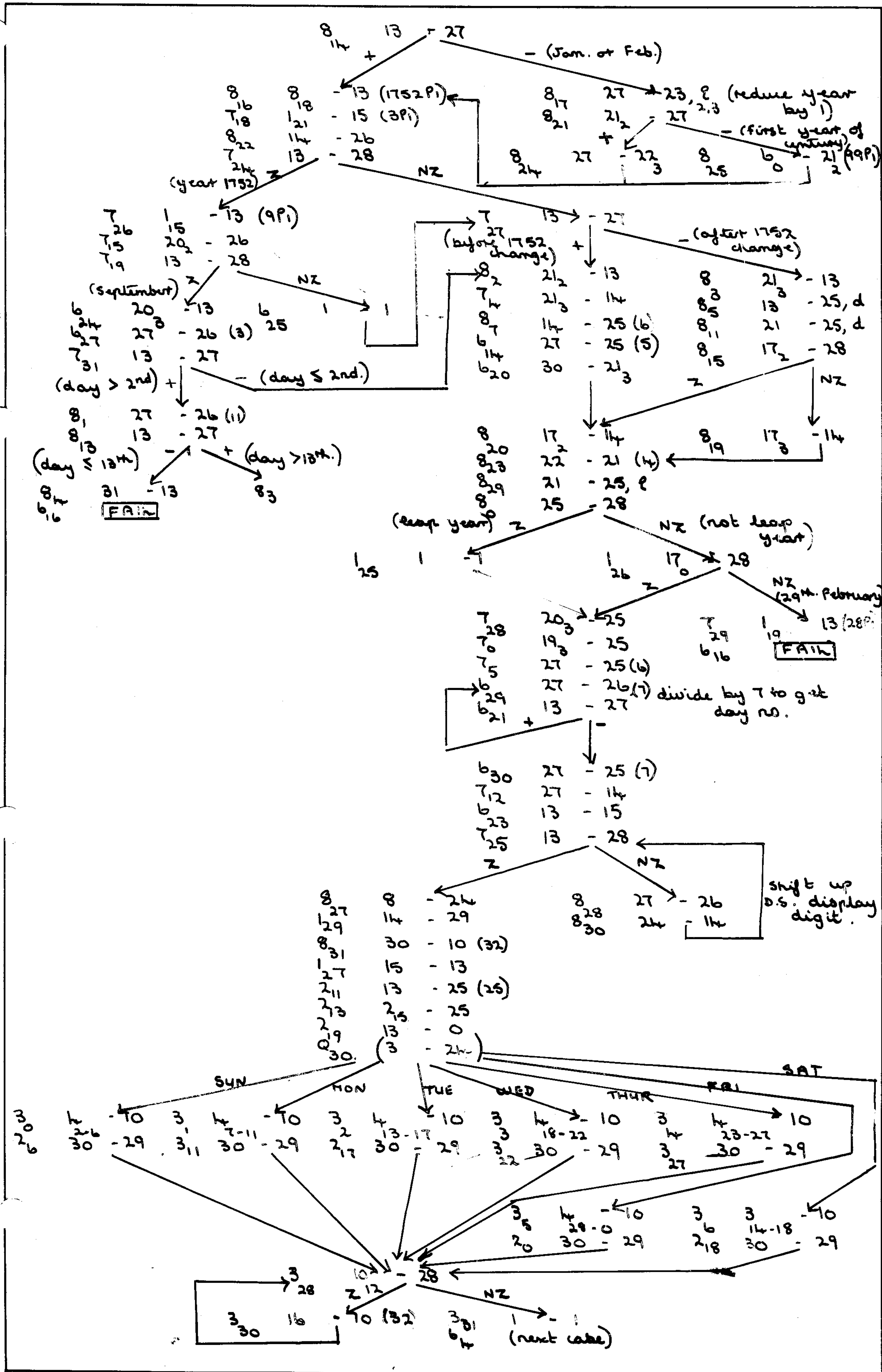
31P indicates the setting of a day > 31.

All ones indicates the setting of one of the omitted dates between 30th and 31st September, 1752 inclusive.

It should be noted that there is no failure to protect against one of the P_{11-32} keys on the I.D. being set and in such a case the answer will be in error.

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D.L. 1. Track Card Nos. 4-6 α								D.L. 2. Track Card Nos. 4-6 β								D.L. 3. Track Card Nos. 7-9 α							
mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T
0		68	24			0	0	0		330	29			0	26	0		24	10	8	0		4
1		P1						1								1		34	10	8	4		8
2		31P1						2								2		24	10	8	9		13
3		4P1						3								3		34	10	8	13		17
4		29P1						4								4		34	10	8	17		21
5		3P1						5								5		24	10	8	21		25
6		31P1						6		330	29			0	20	6		23	10	8	6		10
7		6P1						7								7							
8		30P1						8								8							
9		P1						9								9							
10		31P1						10								10							
11		4P1						11		213	25	8		0		11		330	29		0		15
12		30P1						12								12							
13		6P1						13		22	25			0	4	13							
14		31P1						14								14		0, 24, 17, 28, 3, 0					
15		9P1						15		33	24			0	0	15		0, 4, 8, 17, 0, 0					
16		31P1						16								16		0, 24, 28, 19, 0, 0					
17		12P1						17		330	29			0	9	17		0, 0, 5, 18, 0, 0					
18		30P1						18		330	29			0	8	18		0, 28, 4, 18, 4, 0					
19		28P1						19		213	0			9	9	19							
20		31P1						20								20							
21		3P1						21		16, 8, 17, 30, 25, 1						21							
22		30P1						22		16, 9, 17, 8, 4, 0						22		330	29		0		4
23		5P1						23		16, 10, 17, 8, 24, 0						23							
24		31P1						24		16, 12, 17, 8, 0, 1						24							
25		71		1		0	1	25		16, 8, 16, 8, 28, 4						25		130	13		0		4
26		717		28		0	0	26								26							
27		215		13		0	14	27								27		330	29		0		31
28		013		0		0	0	28		213	29			0	31	28		310	28		14		0
29		014		29		0	0	29		230	10	8		0	31	29							
30		Link						30		32	10	8	21	25		30		316	10	8	29	28	
31		76		25		0	29	31		717	21			0	1	31		61		1		0	3
								21-25 NUT6								31-18 SAT							

D.L. 4. Track Card Nos. 7-9 β								D.L. 5. Track Card Nos. 10-12 α								D.L. 6. Track Card Nos. 10-12 β							
mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T
0			0	h	h	21	0	0	0							0		99P					
1									1							1		P21, 22					
2			0	2h	5	10	h	0	2							2		66	2h	0	0		
3			0	h	h	26	h	0	3							3		6h	2h	0	0		
4			0	2h	h	10	5	0	4							4		62	2h	0	29		
5			0	0	5	10	6	0	5							5		56	13	0	25		
6			0	28	2h	9	20	0	6							6		613	28	0	0		
7			0	h	18	19	8	0	7							7		613	20	1	6		
8			0	12	11	20	9	0	8							8		613	28	0	6		
9			0	20	10	20	10	0	9							9		627	26	0	31		
10			0	h	10	20	12	0	10							10		613	27	0	0		
11			0	h	18	19	8	1	11							11		25	2h	0	18		
12									12							12		61	13	20	2		
13			0	28	11	20	7	0	13							13		56	13	0	17		
14			0	16	8	20	0	0	14							14		627	25	0	h		
15			0	16	8	20	3	0	15							15		613	20	0	8		
16			0	16	8	20	0	0	16							16		07	2h	0	8		
17			0	16	16	19	23	0	17							17		627	26	0	12		
18			0	h	26	27	1	0	18							18		61	13	29	28		
19			0	h	10	8	2	0	19							19		620	13	1	1		
20			0	20	26	9	2	0	20							20		030	21	1	30		
21			0	12	11	8	2	0	21							21		613	27	0	6		
22			0	h	26	27	9	0	22							22		613	25	18	2		
23			0	28	7	5	26	1	23							23		713	15	0	0		
24			0	16	h	5	10	2	24							24		620	13	1	1		
25			0	16	28	5	26	1	25							25		71	1	0	0		
26			0	16	h	5	10	1	26							26		16	25	0	0		
27			0	16	h	25	9	10	27							27		727	26	0	2		
28			0	28	29	h	0	0	28							28		71	19	d31	1		
29			0	h	h	5	0	0	29							29		627	26	16	22		
30			0	28	28	h	0	0	30							30		727	25	6	12		
31			0	h	20	h	0	0	31							31		613	27	0	17		

Calendar.

D.L. 7. Track Card Nos. 13-15 α								D.L. 8. Track Card Nos. 13-15 β								D.L. Track Card Nos.							
mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T	mc	A	NIS	S	D	C	W	T
0		719	25			1	3	0		125	28			0	23	0							
1		720	13			0	0	1		027	26	8		0	10	1							
2		721	17	8		2	3	2		721	13			0	0	2							
3		719	26			1	1	3		021	13			0	0	3							
4		021	14			1	1	4		631	13			0	10	4							
5		627	25	8		17	22	5		013	25	d		0	4	5							
6		713	28			0	0	6		013	14			0	0	6							
7		021	14			0	0	7		614	25	8		0	5	7							
8		720	13			0	0	8		020	13			0	0	8							
9		727	26			0	0	9		024	14	d		0	1	9							
10		727	26	d		0	2	10		027	26	8		0	2	10							
11		713	27			0	0	11		021	25	d		0	2	11							
12		627	14			0	9	12		014	25	8		0	24	12							
13		619	13			1	1	13		013	27			0	20	13							
14		713	28			0	0	14		013	27			0	0	14							
15		720	26			1	2	15		017	28			1	2	15							
16		728	17			2	2	16		78	13			0	0	16							
17		730	17			1	1	17		027	23	8		1	2	17							
18		01	15			1	2	18		178291						18							
19		613	28			0	3	19		017	14			2	2	19							
20		57	13			0	10	20		017	14			0	1	20							
21		57	13			0	9	21		021	27			1	1	21							
22		713	17			1	21	22		714	24			0	0	22							
23		613	21			0	11	23		022	21	8		1	4	23							
24		713	28			0	0	24		027	22			1	22	24							
25		013	28			0	0	25		06	21			5	21	25							
26		71	13			19	19	26		28	24			0	0	26							
27		013	27			0	5	27		18	24			0	0	27							
28		720	25			1	2	28		027	26			0	0	28							
29		61	13			20	17	29		021	25	8		0	1	29							
30		113	27			0	31	30		724	14			0	25	30							
31		013	27			0	0	31		130	10	8		27	26	31							