

ZP34

NELSON RESEARCH LABORATORIES  
STAFFORD E. E. CO. LTD.

No.314

NE t 1178

Sheet No.:1.

DEUCE Programme No. 314 (ZP34)

Clock Track Set or Sync.

SUMMARY.

This is a programme that either sets or synchronises with a "P31 clock track".

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Sheet No.: 2

DEUCE Programme No. 314 (ZP34)

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OPERATING INSTRUCTIONS.

Program Cards. 1-3.

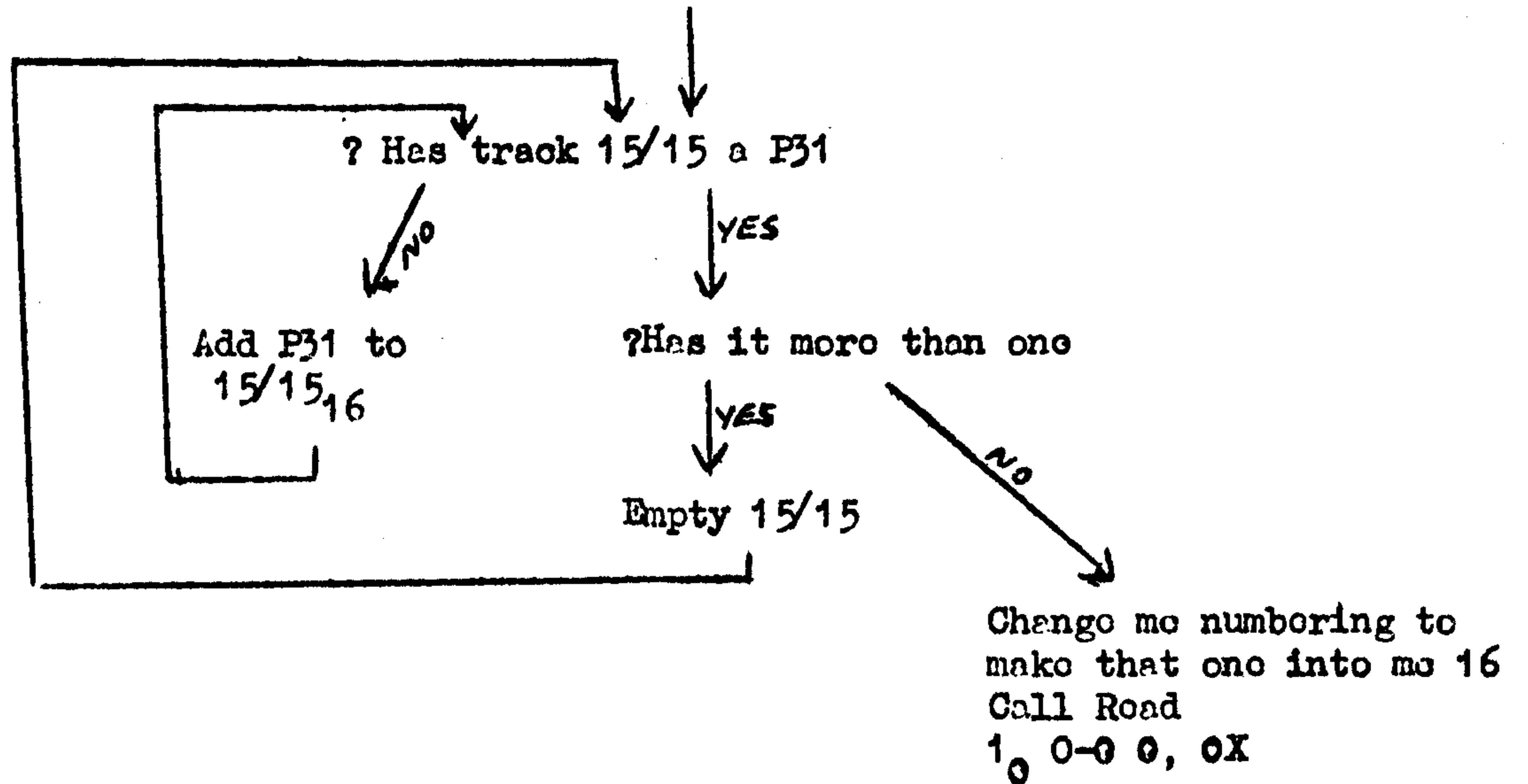
Operating Details.

The program is read and obeyed immediately after the initial card of the first program to be read by the machine, and then subsequently whenever synchronisation is required (for instance, to re-enter a program or use a post mortem program after losing control).

It may be read with Road-In (after clearing TS Count manually) or with Initial-Input. (TS Count can be cleared manually by obeying externally with a one-shot the instruction 3~0(1) ).

Stores Used.	13	1	11
Contents at entry.	-	-	-
Contents at exit	-	-	track 15/15

ORGANISATION OF PROGRAMME



GENERAL DESCRIPTION

A "P<sub>31</sub> Clock Track" means a track with just one m.c. that has a P<sub>31</sub>. Digits other than P<sub>31</sub> are irrelevant so that the clock track may at the same time be used to store instructions or numbers, (subject to the restriction on P<sub>31</sub> digits).

The system of operation is as follows:-

If 15/15 is a P<sub>31</sub> clock track, this programme synchronises with it.

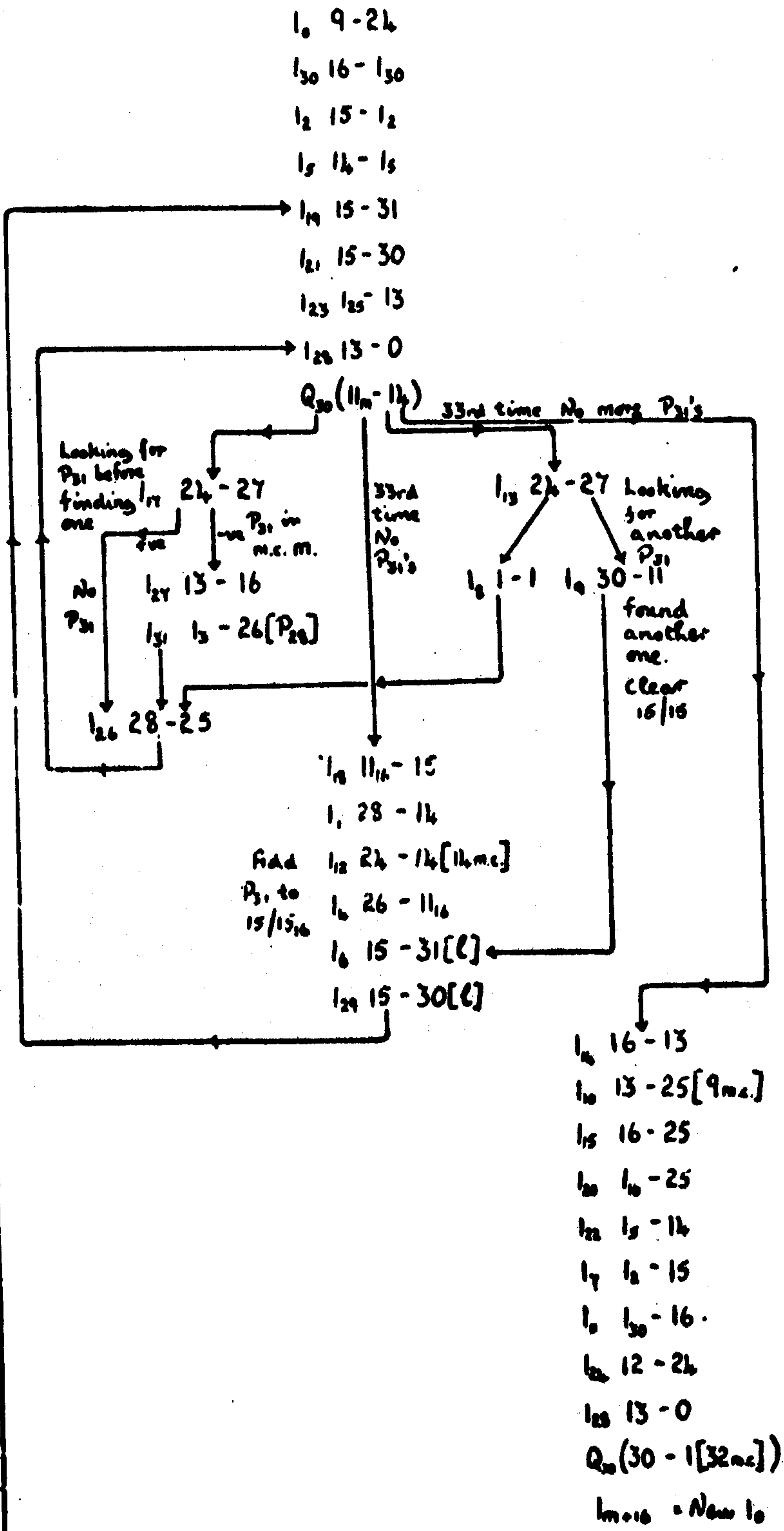
If 15/15 is not a P<sub>31</sub> clock track it is changed to a P<sub>31</sub> clock track and synchronised with this programme, as follows:-

If there is no P<sub>31</sub> in 15/15 a P<sub>31</sub> is added to 15/15,16.

If there is more than one P<sub>31</sub> in 15/15, 15/15 is cleared except for a P<sub>31</sub> in 15/15,16.

The next programme is then called.

D.L.		Track					
Card Nos.							
ms	ms	S	D	C	W	T	
	1	30	-	1	28	28	X Y
							X
	1	0	-	1	29	28	X 0
	1	0	-	1	30	31	X 1
0	1	9	-	24	0	28	2
1	1	28	-	14	0	9	3
2	1	15	-	1	30	1	4
3				P <sub>29</sub>			5
4	1	26	-	11	10	0	6
5	1	14	-	1	30	12	7
6	1	15	-	31	1	0	21
7	1	1	-	15	25	2	9
8	1	1	-	1	0	16	Y
9	1	30	-	11	1	28	27 X
10	1	13	-	25	1	27	3 0
11	1	1	-	16	11	11	1
12	1	24	-	14	1	9	22 2
13	1	24	-	27	0	25	3
14	1	16	-	13	0	26	4
15	1	16	-	25	0	3	
16	0	19	-	1	3	23	30 X 6
17	1	24	-	27	0	7	7
18	1	11	-	15	28	13	8
19	1	15	-	31	0	0	9
20	1	1	-	25	26	0	Y
21	1	15	-	30	0	0	X
22	1	1	-	14	13	15	0
23	1	1	-	13	0	3	1
24	1	12	-	24	0	2	2
25	1	11	-	14	0(15)	17	3
26	1	28	-	25	0	0	4
27	1	13	-	16	0	2	5
28	0	13	-	0	1	0	0 6
29	1	15	-	30	1	0	20 7
30	1	16	-	1	30	2	8
31	1	1	-	26	2	25	9



CODING & FLOW DIAGRAM FOR PROGRAM No. 314 (2P34)  
Clock Track Set or Sync.

Date  
File Ref.  
Sheet Ref. 56/10800