

IBM

*General Products Division
1271 Avenue of the Americas
New York 20, New York*

Telephone: JUdson 6-2050

January 6, 1961

Memorandum to: 543-544 SOAP Control Panel Field Testers

Subject: 543-544 SOAP Control Panels

The enclosed wiring check list is to be used to wire 543 and 544 control panels for the following SOAP Systems:

- 1) SOAP 4000
- 2) SOAP 2L
- 3) SOAP 2L TAPE
- 4) SOAP 42.

We would like you to participate in its field test.

We appreciate your cooperation in this matter.



J. H. Palmer, Manager
Programming Development
General Products Division

JHP/RCS/es
Enclosure



General Products Division
1271 Avenue of the Americas
New York 20, New York

International Business Machines Corporation

Telephone: JUdson 6-2050

February 10, 1961

Memorandum to: 543-544 SOAP Control Panel Field Testers
Subject: 543-544 SOAP Wiring Listing - Errata #1

The following revisions are required:

Page 3 of 6 (544) Note 1: A

Change	From	Word exits - numbered right to left
	To	Word exits - numbered left to right

Page 3 of 6 (544)

Change	From	Common Field Selector 3: (12-21) - Word 5 Exit: (1-10)
	To	Common Field Selector 3: (13-21) - Word 5 Exit: (2-10)

Page 6 of 6 (544)

Add	Common Field Selector 3: 12 - Column Split 11: Common
Add	Word 5 Exit: 1 - Column Split 11: (0-9)

J. H. Palmer, Resident Mgr.
Processing Systems
Applied Programming - GPD

JHP/RCS/es RS



General Products Division
1271 Avenue of the Americas
New York 20, New York

Telephone: JUdson 6-2050

International Business Machines Corporation

February 27, 1961

Memorandum to: 543-544 SOAP Control Panel Field Testers

Subject: 543-544 SOAP Wiring Listing - Errata #2

The following revisions are required:

Page 2 of 6 (543)

Change from	Word Size Emitter: 4	-	Wd. Size Entry : 7
to	Word Size Emitter: 4	-	Wd. Size Entry : 7-9

J. H. Palmer, Resident Mgr.
Processing Systems
Applied Programming - GPD

JHP/RCS/es

543 SOAP CONTROL PANEL WIRING

NOTE: All unlabeled multiple components are considered as numbered left to right (Ex. co-selector positions, pilot selectors, etc.)

The only exception being word entry digits which are numbered right to left.

<u>From</u>	<u>To</u>
First Read: 2	Load FMT
First Read: 43-47	Alpha Pre Read Wd 1: 1-5
First Read: 48-50	Alpha Pre Read Wd 4: 1-3
First Read: 51-55	Alpha Pre Read Wd 2: 1-5
First Read: 56	Alpha Pre Read Wd 4: 4
First Read: 57-61	Alpha Pre Read Wd 3: 1-5
First Read: 62	Alpha Pre Read Wd 4: 5
First Read: 63-67	Alpha Pre Read Wd 5: 1-5
First Read: 68-72	Alpha Pre Read Wd 6: 1-5
First Read: 41	Left Digit Selector Common
First Read: 42	Pilot Selector 2 DPU
First Read: 80	Left Digit Selector Common
Left Digit Selector 12	Load FMT
Left Digit Selector 1-3	Pilot Selector 7 DPU
Left Digit Selector 4	Pilot Selector 6 DPU
Left Digit Selector 5	Pilot Selector 3 DPU
Left Digit Selector 6	Pilot Selector 4 DPU
Left Digit Selector 7	Pilot Selector 5 DPU
Co-Selector 5: T1	Emit 8
Co-Selector 5: N1	Emit 9
Co-Selector 5: C1	Wd 10 Entry: 9
Co-Selector 5: C (2-5)	Wd 7 Entry: 4-1
Co-Selector 7: T1	Emit 8
Co-Selector 7: N1	Emit 9
Co-Selector 7: C1	Wd 10 Entry: 8
Co-Selector 7: C (2-5)	Wd 8 Entry: 4-1
Co-Selector 8: T1	Read Impulse: 8
Co-Selector 8: N1	Read Impulse: 9
Co-Selector 8: C1	Wd 10 Entry: 7
Co-Selector 8: C (2-5)	Wd 9 Entry: 4-1
Second Reading: 23-26	Co-Selector 5: T (2-5)
Second Reading: 33-36	Co-Selector 7: T (2-5)
Second Reading: 37-39	Co-Selector 8: T (2-4)
Second Reading: 40	Column Split 7 Common
Second Reading: 41	Top Pilot Selector 7 T

1/6

<u>From</u>	<u>To</u>
Second Reading: 44-47	Co-Selector 5: N (2-5)
Second Reading: 52-55	Co-Selector 7: N (2-5)
Second Reading: 58-61	Co-Selector 8: N (2-5)
Second Reading: 43-47	Wd 1 Entry: 5-1
Second Reading: 48-50	Wd 4 Entry: 5-3
Second Reading: 51-55	Wd 2 Entry: 5-1
Second Reading: 56	Wd 4 Entry: 2
Second Reading: 57-61	Wd 3 Entry: 5-1
Second Reading: 62	Wd 4 Entry: 1
Second Reading: 63-67	Wd 5 Entry: 5-1
Second Reading: 68-72	Wd 6 Entry: 5-1
Pilot Selector 2: T	Read Impulse: 8
Pilot Selector 2: N	Read Impulse: 0
Pilot Selector 2: C	Wd 10 Entry: 1
Pilot Selector 7: Top N	Emit 0
Pilot Selector 7: Top C	Wd 10 Entry: 3
Pilot Selector 7: Bottom T	Read Impulse: 8
Pilot Selector 7: Bottom N	Read Impulse: 0
Pilot Selector 7: Bottom C	Wd 10 Entry: 2
Pilot Selector 6: T	Emit 1
Pilot Selector 6: N	Emit 0
Pilot Selector 6: C	Wd 10 Entry: 10
Column Split 7: 0-9	Co-Selector 8: T5
Wd 10 Entry: 6-4	Read Impulse: 0
Load FMT	Load D/I
Couple Exit P.S. 3	Co-Selector Pickup: 5
Couple Exit P.S. 4	Co-Selector Pickup: 7
Couple Exit P.S. 5	Co-Selector Pickup: 6
CAI, N/FMT	Alpha In Wds 1-6
Word Size Emitter: 4	Wd Size Entry: 7
RVC Off	(A Jackplug)

2/6

544 SOAP CONTROL PANEL WIRING

NOTE 1: All unlabeled multiple components are considered as numbered left to right (Ex. co-selector positions, pilot selectors, etc.) the only exceptions being:

- A Word exits - numbered right to left
- B Column splits - numbered top to bottom

NOTE 2: Field Selectors Level 2 (Card Type B) are wired to the top Punch Magnet Entries.

Field Selectors Level 1 (Card Type A) and Field Selectors, Normal (Card Type C) - are wired to the bottom Punch Magnet Entries.

<u>From</u>	<u>To</u>
Control Information 1.....	Co-Selector P.U. 4
Control Information 2.....	Co-Selector P.U. 1
Control Information 3.....	Pilot Selector P.U. 1, 4, 5
Control Information 4.....	Co-Selector P.U. 3
Control Information 5.....	Co-Selector P.U. 2
Control Information 6.....	Field Selector P.U. (1-6) Level 2
Control Information 7.....	Field Selector P.U. (1-6) Level 1
Control Information 8.....	Pilot Selector P.U. 3
Control Information 9.....	Pilot Selector P.U. 2
Control Information 10.....	Alpha Out Words (1-6) (SOAP 4000 only)
Common Field Selector 1: (1-10).....	Word 1 Exit: (1-10)
Common Field Selector 1: (11).....	PCH +
Common Field Selector 1: (12-21).....	Word 2 Exit: (1-10)
Common Field Selector 1: (22).....	Emit 9
Common Field Selector 2: (1-10).....	Word 3 Exit: (1-10)
Common Field Selector 2: (11).....	Word 9 Exit: 7
Common Field Selector 3: (1-10).....	Word 4 Exit: (1-10)
Common Field Selector 3: (11).....	Word 9 Exit: 8
Common Field Selector 3: (12-21).....	Word 5 Exit: (1-10)
Common Field Selector 3: (22).....	Word 9 Exit: 9
Common Field Selector 4: (1-10).....	Word 6 Exit: (1-10)
Common Field Selector 4: (11).....	PSU
Common Field Selector 4: (12-21).....	Word 7 Exit: (1-10)
Common Field Selector 4: (22).....	Top Pilot Selector 3C
Common Field Selector 5: (1-10).....	Word 8 Exit: (1-10)
Common Field Selector 5: (11).....	Word 9 Exit: 10
CAI :	Alpha Out (Except SOAP 4000)

Common Field Selector 6: (1-10).....	Punch Magnet Entry (1-10)
Common Field Selector 6: (11).....	Column Split 12 Common
Common Field Selector 6: (12-18).....	Punch Magnet Entry (21-27)
Common Field Selector 6: (19).....	Punch Magnet Entry 29
Common Field Selector 6: (20).....	Punch Magnet Entry 76
Common Field Selector 6: (21).....	Bottom P. S. 2C
Common Field Selector 6: (22).....	Punch Magnet Entry 29
Level 1 Field Selector 1: (6-10).....	Punch Magnet Entry (43-47)
Level 1 Field Selector 1: (17-21).....	Punch Magnet Entry (51-55)
Level 1 Field Selector 1: (22).....	Punch Magnet Entry 73
Level 1 Field Selector 2: (6-10).....	Punch Magnet Entry (57-61)
Level 1 Field Selector 2: (11).....	Punch Magnet Entry 17
Level 1 Field Selector 3: (6-8).....	Punch Magnet Entry (48-50)
Level 1 Field Selector 3: (9).....	Punch Magnet Entry 56
Level 1 Field Selector 3: (10).....	Punch Magnet Entry 62
Level 1 Field Selector 3: (11).....	Punch Magnet Entry 18
Level 1 Field Selector 3: (17-21).....	Punch Magnet Entry (63-67)
Level 1 Field Selector 3: (22).....	Punch Magnet Entry 19
Level 1 Field Selector 4: (6-10).....	Punch Magnet Entry (68-72)
Level 1 Field Selector 4: (22).....	Punch Magnet Entry 79
Level 1 Field Selector 5: (2).....	Punch Magnet Entry 80
Level 1 Field Selector 5: (7-9).....	Punch Magnet Entry 80
Level 1 Field Selector 5: (10).....	Punch Magnet Entry 41
Level 1 Field Selector 5: (11).....	Punch Magnet Entry 20
Level 1 Field Selector 6: (1).....	Column Split 12 Common
Level 1 Field Selector 6: (2-6).....	Emit 0
Level 1 Field Selector 6: (7).....	Emit 8
Level 1 Field Selector 6: (8-9).....	Emit 0
Level 1 Field Selector 6: (10).....	Column Split 12 Common
Level 2 Field Selector 1: (1-10).....	Punch Magnet Entry (1-10)
Level 2 Field Selector 1: (11).....	PCH +
Level 2 Field Selector 1: (12-21).....	Punch Magnet Entry (11-20)
Level 2 Field Selector 2: (1-10).....	Punch Magnet Entry (21-30)
Level 2 Field Selector 3: (1-10).....	Punch Magnet Entry (31-40)
Level 2 Field Selector 3: (12-21).....	Punch Magnet Entry (41-50)
Level 2 Field Selector 4: (1-10).....	Punch Magnet Entry (51-60)
Level 2 Field Selector 4: (11).....	PSU
Level 2 Field Selector 4: (12-21).....	Punch Magnet Entry (61-70)
Level 2 Field Selector 5: (1-10).....	Punch Magnet Entry (71-80)
Level 2 Field Selector 6: (11).....	Column Split 11: (11-12)
Normal Field Selector 1: (6-10).....	Punch Magnet Entry (43-47)
Normal Field Selector 1: (17-21).....	Punch Magnet Entry (51-55)
Normal Field Selector 1: (22).....	Field Selector 6: 2 Common
Normal Field Selector 2: (6-10).....	Punch Magnet Entry (57-61)
Normal Field Selector 2: (11).....	Punch Magnet Entry (17)

4/6

Normal Field Selector 3: (6-8).....	Punch Magnet Entry (48-50)
Normal Field Selector 3: (9).....	Punch Magnet Entry 56
Normal Field Selector 3: (10).....	Punch Magnet Entry 62
Normal Field Selector 3: (11).....	Punch Magnet Entry 18
Normal Field Selector 3: (17-21).....	Punch Magnet Entry (63-67)
Normal Field Selector 3: (22).....	Punch Magnet Entry 19
Normal Field Selector 4: (6-10).....	Punch Magnet Entry 68-72
Normal Field Selector 4: (12-13).....	Co-Selector 4: C (4-5)
Normal Field Selector 4: (14)	Top Pilot Selector 4N
Normal Field Selector 4: (15)	Bottom Pilot Selector 4N
Normal Field Selector 4: (16)	Top Pilot Selector 5N
Normal Field Selector 4: (17)	Bottom Pilot Selector 5N
Normal Field Selector 4: (18-20)	Co-Selector 1: N (1-3)
Normal Field Selector 4: (21)	Column Split 8: (0-9)
Normal Field Selector 4: (22)	Punch Magnet Entry 79
Normal Field Selector 5: (2)	Punch Magnet Entry 80
Normal Field Selector 5: (3-6)	Co-Selector 3: N (1-4)
Normal Field Selector 5: (7-9)	Punch Magnet Entry 80
Normal Field Selector 5: (10)	Punch Magnet Entry 41
Normal Field Selector 5: (11)	Punch Magnet Entry 20
Normal Field Selector 6: (1)	Column Split 10 Common
Normal Field Selector 6: (2)	Field Selector 1: N 22
Normal Field Selector 6: (3)	Emit 1
Normal Field Selector 6: (4)	Punch Magnet Entry 2
Normal Field Selector 6: (5)	Emit 5
Normal Field Selector 6: (6)	Emit 0
Normal Field Selector 6: (7-9)	Co-Selector 2: C (2-4)
Normal Field Selector 6: (10)	Punch Column Split 9 Common
Normal Field Selector 6: (11)	Punch Magnet Entry 30
Normal Field Selector 6: (12)	Emit 2
Normal Field Selector 6: (13)	Emit 4
Normal Field Selector 6: (14-17)	Co-Selector 3: C (1-4)
Normal Field Selector 6: (18)	Emit 8
Normal Field Selector 6: (19)	Emit 0
Normal Field Selector 6: (20)	Co-Selector 4: C 3
Normal Field Selector 6: (21)	Column Split 8: (11-12)
Normal Field Selector 6: (22)	Punch Magnet Entry 28
D I.....	Top Digit Selector (Emitter)
Top Digit Selector (Emitter) 12	Bottom Pilot Selector 2N
Top Digit Selector (Emitter) 12	Column Split 9: (11-12)
Top Digit Selector (Emitter) 0.....	Co-Selector 2 T 5
Top Digit Selector (Emitter) 9.....	Co-Selector 2 N 3
Digit Emitter 12.....	Column Split 10: (11-12)
Digit Emitter 12.....	Column Split 12: (11-12)
Digit Emitter 11.....	Top Pilot Selector 2T
Digit Emitter 11.....	Co-Selector 3 T 5

Digit Emitter 11	Co-Selector 4 T 3
Digit Emitter 11	Co-Selector 2 T 1
Digit Emitter 0	Co-Selector 2 T 3
Digit Emitter 0	Co-Selector 2 T 4
Digit Emitter 0	Column Split 12: (0-9)
Digit Emitter 1	Co-Selector 2 N 2
Digit Emitter 3	Co-Selector 2 N 5
Digit Emitter 5	Co-Selector 2 N 4
Digit Emitter 6	Column Split 10: (0-9)
Digit Emitter 8	Co-Selector 2 T 2
Digit Emitter 9	Top Pilot Selector 3 T
Pilot Selector 1 PU	Pilot Selector 4 PU
Pilot Selector 4 PU	Pilot Selector 5 PU
Top Pilot Selector 1 T	X Impulse
Top Pilot Selector 1 C	Punch Magnet Entry 77
Top Pilot Selector 2 C	Punch Magnet Entry 42
Bottom Pilot Selector 2 T	X Impulse
Co-Selector 1: T 5	X Impulse
Co-Selector 1: N 4	Column Split 8: C
Co-Selector 1: C (1-4)	Punch Magnet Entry (37-40)
Co-Selector 1: C 5	Punch Magnet Entry 78
Co-Selector 2: C 1	Punch Magnet Entry 74
Co-Selector 2: C 5	Column Split 9: (0-9)
Co-Selector 3: C 5	Punch Magnet Entry 75
Co-Selector 4: N (4-5)	Punch Magnet Entry (31-32)
Run INLK	(A Jackplug)
Top Pilot Selector 4 C	Punch Magnet Entry 33
Bottom Pilot Selector 4 C	Punch Magnet Entry 34
Top Pilot Selector 5 C	Punch Magnet Entry 35
Bottom Pilot Selector 5 C	Punch Magnet Entry 36

6/6

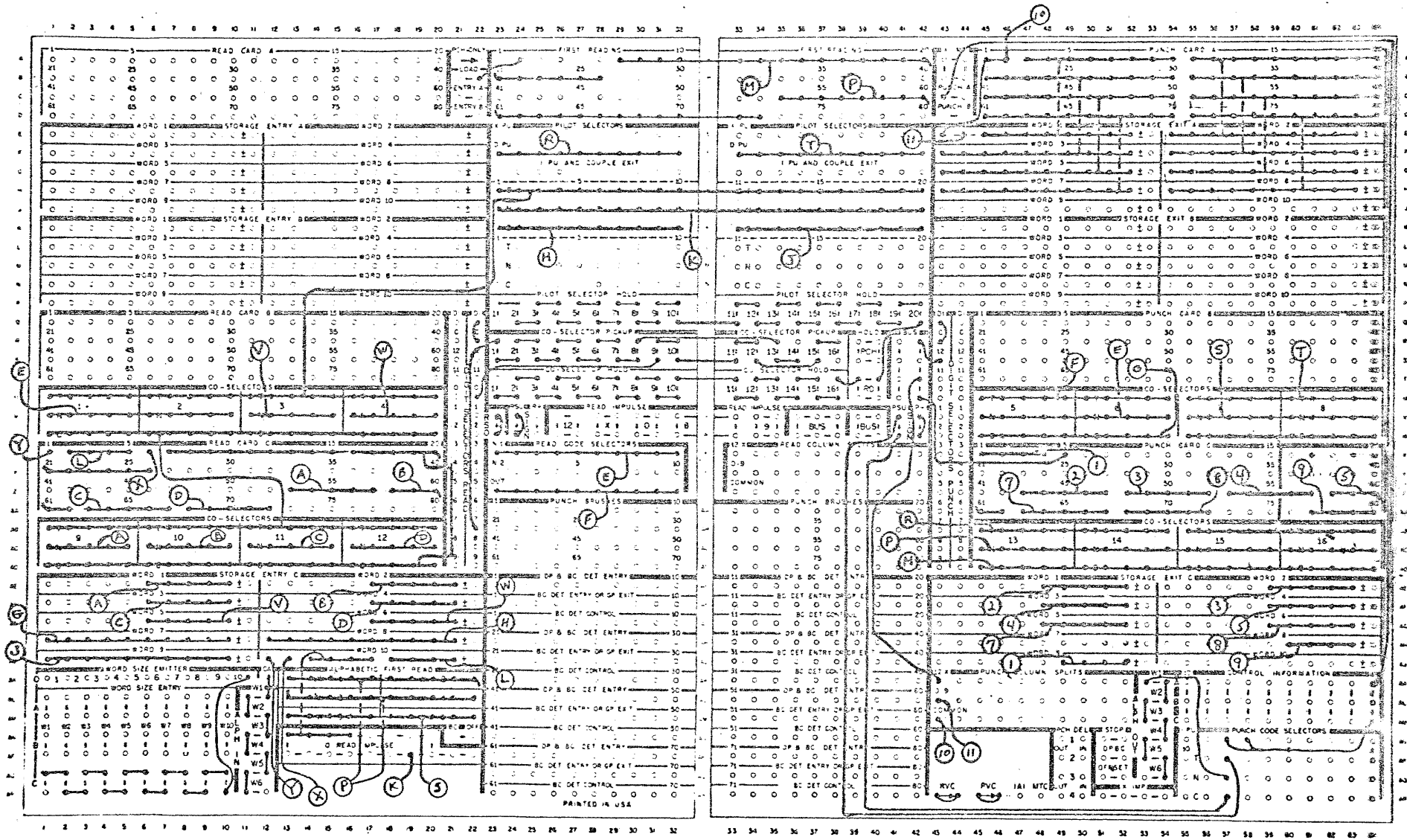


INTERNATIONAL BUSINESS MACHINES CORPORATION

450 DATA-PROCESSING SYSTEM

533-537 CARD READ PUNCH, CONTROL PANEL

FORTRAN
ForTransit I & II





INTERNATIONAL BUSINESS MACHINES CORPORATION

650 DATA PROCESSING SYSTEM
533-537 CARD READ PUNCH, CONTROL PANEL

IT-SOAP
For Transit I & II

