

HP-41C PPC ROM Key Assignment Group by Roger Hill
PPC Calculator Journal V8 No 2 Pg 39 Mar-Apr 1981

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01 LBL "MK" ;PPC ROM Make Key Assignments Group
02 CF 25
03 RCL 11
04 CF 07
05 SF 09
06 LBL 01
07 XEQ "LF" ;Locate Free Register Block (Line 203)
08 STO 09
09 E
10 +
11 X<>Y
12 STO 10
13 ASTO 11
14 DSE Y
15 GTO 07 ;3 Byte GTO 07: D0 00 07 Hex
16 SF 20
17 FC?C 09
18 GTO 13
19 LBL 02
20 RCL 09
21 INT
22 LASTX
23 FRC
24 E3
25 *
26 X<>Y
27 .5
28 FC? 10
29 SIGN
30 -
31 -
32 "REG FREE: "
33 RCL d
34 FIX 1
35 ARCL Y
36 STO d
37 XEQ "VA" ;View Alpha Register (PPC ROM Sub Group Line 82)
38 TONE 6
39 PSE
40 LBL 03
41 "PRE^POST^KEY"
42 CLST
43 XEQ "VA" ;View Alpha Register (PPC ROM Sub Group Line 82)
44 TONE 7
45 STOP
46 GTO 14
47 LBL "1K" ;First Key Assignment
48 CF 20
49 SF 07
50 LBL "+K" ;Additional Key Assignments
51 LBL 14
52 STO 08
53 RDN
54 STO 07
55 RDN
56 STO 06
57 CF 09
58 RCL 10
59 SIGN
60 FS? 20
61 X#0?
62 GTO 01 ;3 Byte GTO 01: D0 00 01 Hex
63 LBL 13
64 RCL 08
65 INT
66 X=0?
67 FS? 07
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68 FC?C 20
69 GTO 02
70 X<0?
71 SF 09
72 ABS
73 STO Z
74 44
75 -
76 ABS
77 2
78 X<Y?
79 DSE T
80 R^
81 STO Y
82 E1
83 ST/ Z
84 MOD
85 8
86 *
87 ENTER
88 CF 08
89 LASTX
90 FS? 09
91 ST+ Y
92 R^
93 INT
94 X#0?
95 X>Y?
96 GTO 08 ;3 Byte GTO 08: D0 00 08 Hex
97 R^
98 +
99 ST+ Z
100 X<>Y
101 X<=Y?
102 CLX
103 X#0?
104 SF 08
105 +
106 36
107 -
108 X>0?
109 GTO 08 ;3 Byte GTO 08: D0 00 08 Hex
110 FC? 09
111 RCL R
112 FS? 09
113 RCL e
114 FC? 08
115 GTO 14
116 STO M
117 >"*" ;Append 1 asterisk
118 X<> M
119 LBL 14
120 X<> d
121 FS? IND Y
122 GTO 09 ;3 Byte GTO 09: D0 00 09 Hex
123 SF IND Y
124 X<> d
125 FC? 08
126 GTO 14
127 STO M
128 ARCL 10
129 X<> N
130 LBL 14
131 FC? 09
132 STO R
133 FS?C 09
134 STO e
135 "\2A\2A\F0" ;2 asterisks, F0 Hex
136 FS? 10
137 ARCL 11

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138 X<> Z
139 RCL 07
140 RCL 06
141 XEQ "DC" ;Decimal to Character (PPC ROM Sub Group Line 1)
142 XEQ "DC" ;Decimal to Character (PPC ROM Sub Group Line 1)
143 XEQ "DC" ;Decimal to Character (PPC ROM Sub Group Line 1)
144 FS?C 10
145 GTO 14
146 >"\00\00\00" ;Append 3 nulls
147 ASTO 11
148 SF 10
149 LBL 14
150 RCL 09
151 RCL 10
152 X<> c
153 RCL M
154 STO IND Z
155 X<>Y
156 X<> c
157 CLST
158 CLA
159 FC? 10
160 ISG 09
161 SF 20
162 FS? 07
163 RTN
164 FS? 20
165 GTO 03 ;3 Byte GTO 03: D0 00 03 Hex
166 "DONE, NO MORE"
167 SF 09
168 GTO 14
169 LBL 07
170 "NO ROOM"
171 CF 20
172 CLST
173 LBL 14
174 FS?C 25
175 RTN
176 XEQ "VA" ;View Alpha Register (PPC ROM Sub Group Line 82)
177 TONE 7
178 TONE 83
179 STOP
180 GTO 01 ;3 Byte GTO 01: D0 00 01 Hex
181 LBL 08
182 "NO SUCH KEY"
183 GTO 14
184 LBL 09
185 X<> d
186 "KEY TAKEN"
187 LBL 14
188 CF 09
189 CF 20
190 FS?C 25
191 RTN
192 XEQ "VA" ;View Alpha Register (PPC ROM Sub Group Line 82)
193 TONE 83
194 PSE
195 "KEYCODE?"
196 CLST
197 RCL 08
198 XEQ "VA" ;View Alpha Register (PPC ROM Sub Group Line 82)
199 TONE 7
200 STOP
201 STO 08
202 GTO 01 ;3 Byte GTO 01: D0 00 01 Hex
203 LBL "LF" ;Locate Free Register Block
204 XEQ "E?" ;End Finder (Line 242)
205 17
206 -
207 E3

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208 /
209 177
210 +
211 XEQ "OM" ;Open Memory (PPC ROM Sub Group Line 63)
212 "\2A\10\2A\00\00\2A\2A\F0" ;2A102A00002A2AF0 Hex
213 .
214 ENTER
215 DSE T
216 GTO 14
217 LBL 00
218 X<> IND T
219 X=Y?
220 GTO 14
221 X<> M
222 >"\10" ;Append 10 Hex
223 STO N
224 ARCL X
225 RDN
226 RCL N
227 X<> IND T
228 ISG T
229 GTO 00
230 LBL 14
231 X<> M
232 ARCL X
233 X<> N
234 SF 10
235 X=Y?
236 DSE T
237 CF 10
238 X<> Z
239 X<> c
240 R^
241 RTN
242 LBL "E?" ;End Finder
243 RCL c
244 XEQ "2D" ;2 Bytes to Decimal (PPC ROM Sub Group Line 35)
245 16
246 MOD
247 LASTX
248 X^2
249 *
250 RCL M
251 +
252 CLA
253 END

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0217C600F3004D4BA9192BA907A809021EF24C46391B40713A
9A0B9772D00007A814AB09BE0003296876691B1342711A15AD
0A7A4141FA52454720465245453A20907E9C019B72917E1EF2
56419F068904FC5052455E504F53545E4B4559731EF256419F
0784BF00C80EF300314BA914A807C601F3002B4B0F38753775
36A9092A7AAC1463D000010E286867AC07AB14B30066A80961
917114144161124497707491721B1195714B184283A90876AC
09927274686345D000087440927171467763A8084013164164
D00008AD09907AAC09907FAD08BF009175F27F2ACE750FCE7E
ACF2D00009A8F2CE7EAD08BF0091759B0ACE760FAD09917AAA
09917FF32A2AF0AC0A9B0BCE7127261EF244431EF244431EF2
4443AA0ABF00F47F0000009A0BA80A0F292ACE7D907591F171
CE7D7387AD0A9609A814AC0785AC14D00003FD444F4E452C20
4E4F204D4F5245A809BF0008F74E4F20524F4F4DA914730FAA
19851EF256419F079F5384D0000109FB4E4F2053554348204B
4559BF000ACE7EF94B45592054414B454E0FA909A914AA1985
1EF256419F5389F84B4559434F44453F73281EF256419F0784
38D00001C02DF3004C461EF2453F1117411B1343111717401E
F24F4DF82A102A00002A2AF01A839770BF0001CEF078BF00CE
75F27F1091769B73759076CEF09670B1000FCE759B73CE76A8
0A789770A90ACE71CE7D7485CC0BF300453F907D1EF2324411
164B76514290754087C2032D4E
535 BYTES

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HP-41C PPC ROM Key Assign by Roger Hill PPC V8 N2 P39 Mar-Apr 1981

Program Registers Needed: 77

Row 1 (1 - 5)



Row 2 (6 - 14)



Row 3 (14 - 21)



Row 4 (22 - 31)



Row 5 (32 - 33)



Row 6 (34 - 39)



Row 7 (40 - 41)



Row 8 (41 - 47)



Row 9 (47 - 50)



Row 10 (50 - 60)



Row 11 (61 - 69)



Row 12 (69 - 78)



Row 13 (79 - 87)



Row 14 (88 - 96)



Row 15 (96 - 106)



Row 16 (106 - 113)



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Row 17 (113 - 119)



Row 18 (120 - 125)



Row 19 (126 - 132)



Row 20 (133 - 138)



Row 21 (138 - 143)



Row 22 (143 - 147)



Row 23 (148 - 156)



Row 24 (156 - 164)



Row 25 (164 - 166)



Row 26 (166 - 170)



Row 27 (170 - 176)



Row 28 (176 - 182)



Row 29 (182 - 183)



Row 30 (184 - 186)



Row 31 (187 - 193)



Row 32 (193 - 197)



Row 33 (198 - 203)



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Row 34 (203 - 207)



Row 35 (208 - 212)



Row 36 (212 - 218)



Row 37 (218 - 224)



Row 38 (225 - 232)



Row 39 (232 - 239)



Row 40 (239 - 244)



Row 41 (244 - 253)



Row 42 (253)

