

HP-41C Routine Listing of 8K PPC Custom ROM MK
PPC Calculator Journal V8 N2 P1/5 Mar-Apr 1981

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

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138 GTO 14
139 >"\00\00\00" ;Append 3 nulls
140 ASTO 11
141 SF 10
142 LBL 14
143 RCL 09
144 RCL 10
145 X<> c
146 RCL M
147 STO IND Z
148 X<>Y
149 X<> c
150 CLST
151 CLA
152 FC? 10
153 ISG 09
154 SF 20
155 FS? 07
156 RTN
157 FS? 20
158 GTO 03
159 "DONE, NO MORE"
160 SF 09
161 GTO 14
162 LBL 07
163 "NO ROOM"
164 CF 20
165 CLST
166 LBL 14
167 FS?C 25
168 RTN
169 XROM 10,07 ;VA (View Alpha)
170 TONE 7
171 TONE 83
172 STOP
173 GTO 01
174 LBL 08
175 "NO SUCH KEY"
176 GTO 14
177 LBL 09
178 X<> d
179 "KEY TAKEN"
180 LBL 14
181 CF 09
182 CF 20
183 FS?C 25
184 RTN
185 XROM 10,07 ;VA (View Alpha)
186 TONE 83
187 PSE
188 "KEYCODE?"
189 CLST
190 RCL 08
191 XROM 10,07 ;VA (View Alpha)
192 TONE 7
193 STOP
194 STO 08
195 GTO 01
196 LBL "F?" ;Free Register Finder - XROM 10,04
197 XROM 10,05 ;LF (Locate Free Register Block)
198 LBL 11
199 INT
200 LASTX
201 FRC
202 E3
203 *
204 X<>Y
205 .5
206 FC? 10
207 SIGN
```

208 -
209 -
210 END

01ADC600F3004D4BA919A907A8091112A29EAB198E02A28539
1B40713A9A0B9772D00007A814AB09BE000329E0000BFA5245
4720465245453A20907E9C019B72917EA2879F068904FC5052
455E504F53545E4B455973A2879F0784BF00C00DF300314BA9
14A807C601F3002B4B0F3875377536A9092A7AAC1463B2000E
286867AC07AB14B30066A80961917114144161124497707491
721B1195714B184283A90876AC09927274686345D000087440
927171467763A8084013164164D00008AD09907AAC09907FAD
08BF009175F27F2ACE750FCE7EACF2D00009A8F2CE7EAD08BF
0091759B0ACE760FAD09917AAA09917FF32A2AF0AC0A9B0BCE
712726A28BA28BA28BAA0ABF00F47F0000009A0BA80A0F292A
CE7D907591F171CE7D7387AD0A9609A814AC0785AC14D00003
FD444F4E452C204E4F204D4F5245A809BF0008F74E4F20524F
4F4DA914730FAA1985A2879F079F5384D0000109FB4E4F2053
554348204B4559BF000ACE7EF94B45592054414B454E0FA909
A914AA1985A2879F5389F84B4559434F44453F7328A2879F07
8438D00001C22BF300463FA2850C6876691B1342711A15AD0A
7A4141C4030977

429 BYTES

Program Registers Needed: 62

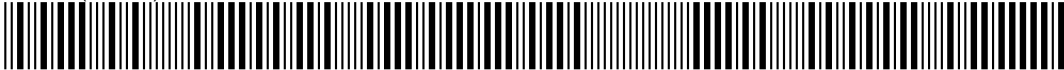
Row 1 (1 - 5)



Row 2 (5 - 14)



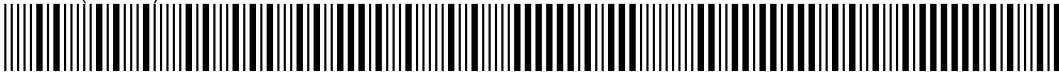
Row 3 (15 - 21)



Row 4 (21 - 25)



Row 5 (25 - 30)



Row 6 (30 - 34)



Row 7 (34 - 39)



Row 8 (40 - 43)



Row 9 (43 - 52)



Row 10 (53 - 61)



Row 11 (62 - 70)



Row 12 (71 - 79)



Row 13 (80 - 89)



Row 14 (89 - 98)



Row 15 (99 - 105)



Row 16 (106 - 111)



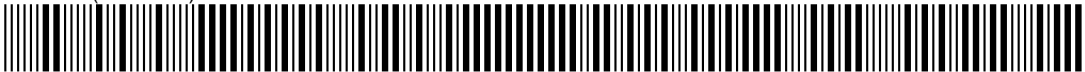
Row 17 (112 - 118)



Row 18 (118 - 125)



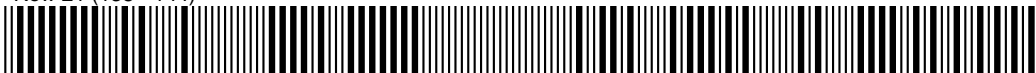
Row 19 (125 - 130)



Row 20 (131 - 138)



Row 21 (138 - 144)



Row 22 (145 - 152)



Row 23 (153 - 159)



Row 24 (159)



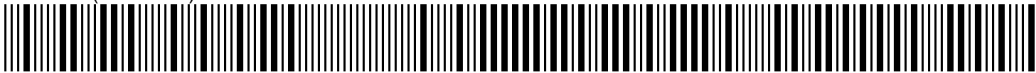
Row 25 (160 - 163)



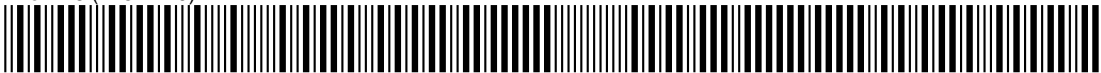
Row 26 (164 - 171)



Row 27 (172 - 175)



Row 28 (175 - 179)



Row 29 (179 - 183)



Row 30 (184 - 188)



Row 31 (188 - 195)



Row 32 (196 - 202)



Row 33 (202 - 210)

