

```

001  #no_table : #no_data
002  symbol b0x = b0: symbol b1x = b1 : symbol b2x = b2 : symbol
b3x = b3 : symbol b4x = b4
003  symbol b15_last_band = B15 : symbol w5_fac = W5 : pullup
%10111110
004  if pinb.2 = 0 then : sound b.0, (70,400) goto DEFAULT : endif
005  gosub INIT
006
007  MAIN:
008  let b16 = pinsB & %00111110
009  if b16 = 62 then : on b1x goto MAIN, D7, BAND_UP, D6,
BAND_DWN ,CIV ,BO6, BO7,BO8, RELEASE : endif
010  b16 = 60 - b16/2 : on b16 goto BOT5 ,BOT4,main,BOT3,main
,main,main,BOT2,main ,main,main,main,main,main,main,BOT1
011  BOT1: pause 10
012  if pinB.5 = 0 AND w9 < 301 then
013  w9 = w9 + 1
014  b1x = 5
015  if w9 > 300 then : b1x = 6: sound b.0, (70,255 ) :
endif
016  endif : goto MAIN
017
018  BOT2: w9 = w9 + 1 : b1x=0
019  if w9 > 10 then: b1x = 7 : endif
020  sound b.0, (70,1)
021  if w3 > 1 then : w3 = w3 - 1 : endif
022  b17 = 20 : gosub DIRECTION : goto MAIN
023
024  BOT3: w9 = w9 + 1
025  b1x=0
026  if w9 > 10 then : b1x = 7 : endif
027  sound b.0, (70,1)
028  if w3 < W6 then : w3 = w3 + 1: endif
029  b17 = 20 : gosub DIRECTION : goto MAIN
030
031  BOT4: if w9 < 1001 then
032  w9 = w9 + 1 : b1x = 4
033  if w9 > 1000 then : b1x = 3 : sound b.0, (70,255 ) :
endif
034  endif : goto MAIN
035
036  BOT5: if w9 < 1001 then
037  w9 = w9 + 1 : b1x = 2
038  if w9 > 1000 then : b1x = 1 : sound b.0, (70,255 ) :
endif
039  endif: goto MAIN
040
041  BO6: gosub COMMON : gosub MID_BAND : b17 = 3 : gosub
DIRECTION : goto MAIN
042  BO7: gosub COMMON : gosub SCREEN gosub EE_ENTER : w9 = 0:
goto MAIN

```

```

043     BO8: goto BC
044
045     RELEASE: w9 = 0 : w11 = w11 + 1: if w11 = 1000 then : let
outpinsa = %00000000: w11 = 0 : b1x = 0 : endif :goto MAIN
046
047     BAND_UP:
048     gosub COMMON:     b15_last_band = b15_last_band + 8
049     if b15_last_band = 120 then: b15_last_band = 0 : endif

050     b0x = b15_last_band + 5 : read b0x ,b28 : b0x =
b15_last_band + 6 : read b0x,B29
051     gosub fr_format : gosub SHOW_FR
052     goto MAIN
053
054     BAND_DWN:
055     gosub COMMON:     b15_last_band = b15_last_band - 8
056     if b15_last_band = 248 then : b15_last_band = 112: endif
057     b0x = b15_last_band + 5 : read b0x ,b28 : b0x =
b15_last_band + 6: read b0x,B29
058     gosub fr_format : gosub SHOW_FR
059     goto MAIN
060
061     MID_BAND:
062     b17 = b15_last_band + 1 : write b15_last_band, b8 : write
b17, b9
063     A1: sound b.0, (70,500)
064     b0x = b15_last_band : b17 = b15_last_band + 1 :read b0x,b6
: read b17 ,B7
065     b0x = b15_last_band + 5 : read b0x ,b28 : b0x =
b15_last_band + 6: read b0x,B29
066     b0x = b15_last_band + 2 : read b0x,b10 : b0x = b0x + 1
: read b0x,b11
067     w15 = w3
068     gosub FR_FORMAT
069     gosub FAC_SCREEN
070     return
071
072     FR_FORMAT: w10 = b28 * 1000 : w14 = B29*10 : w10 = w10 + w14 :
write 124,b15_last_band : return
073
074     SHOW_FR: setfreq m8: serout b.6, N2400, (254,128) : serout b.6,
N2400, (#w10, " ") : setfreq em64
075     pause 2000 : b1x = 8 : w9 = 0 : return
076
077     COMMON:     w9 = 0: b1x = 0 : sound b.0, (50,25) : return
078
079     EE_ENTER: write 122,b8 : write 123,b9 : b1x = 9 : w11 = 0 :
return
080
081     FAC_SCREEN: setfreq m8 serout b.6, N2400, (254,141) : serout
b.6, N2400, (#w5_fac) : setfreq em64 : return
082

```

```

083 DEF:  w12 = w12 * 100 : w12 = w12/w5_fac : return
084
085 DIRECTION:  if w3 = w4 then : gosub SCREEN : return : endif
086
087 ZUZ:
088     if w3 < w4 then:  gosub FIRST_1
089     else:             gosub FIRST_2
090     endif
091     if b1x = 0 then : gosub SCREEN : gosub EE_ENTER : endif
092     return
093
094 SCREEN:
095     if w15 > w4 then
096         w13 = w15 - w4
097     else w13 = w4 - w15
098     endif
099     w12 = w13 * w5_fac : w12 = w12/100
100     if w15 < w4 then
101         w12 = w12 + w10
102     else
103         w12 = w10 - w12
104     endif
105     if b4 > 0 then: setfreq m8 : serout b.6, N2400, (254,128) :
serout b.6, N2400, (#w11, " ", #w4, " ") : b4=0 : goto DD : endif
106         setfreq m8 : serout b.6, N2400, (254,128) :
serout b.6, N2400, (#w12, " ", #w4, " ")
107     DD:         setfreq m8 : serout b.6, N2400, (254,205) :
serout b.6, N2400, (#w13, " ") : setfreq em64
108     return
109 BC:  w9 = w9 + 1
110     if w9 = 1500 then:  sound b.0, (50,100) : b1x = 0
111     setfreq m8: serout b.6, N2400, (254,128) : serout b.6,
N2400, (" WAIT " ) : setfreq em64
112     gosub A1
113     b17 = 3: gosub DIRECTION : w9 = 0 : sound B.0, (60,200
): sound B.0, (50,200 )
114     goto MAIN
115     endif : goto MAIN
116
117 D6:  gosub COMMON
118     w15 = w4 : goto MAIN
119
120 D7:  gosub common
121     w5_fac = 20000 / w13
122     b0x = b15_last_band + 2 : write b0x,b10 : b0x = b0x + 1
: write b0x,b11
123     gosub FAC_SCREEN : gosub SCREEN
124     w3 = 10000/w5_fac : w3 = w4 - w3 : w15 = w3
125     b17 = b15_last_band + 1 : write b15_last_band, b6 : write
b17, b7
126     b17 = 3 : gosub DIRECTION

```

```

127     goto MAIN
128 FIRST_2:
129     w4 = w4 + 1
130     high A.3 : pause b17
131     low  A.0 : pause b17
132     high A.2 : pause b17
133     low  A.3 : pause b17
134     high A.1 : pause b17
135     low  A.2 : pause b17
136     high A.0 : pause b17
137     low  A.1 : pause b17
138     if w3 > w4 then
139         goto FIRST_2
140     endif
141     return
142
143 FIRST_1:
144     w4 = w4 - 1
145     high A.1 : pause b17
146     low  A.0 : pause b17
147     high A.2 : pause b17
148     low  A.1 : pause b17
149     high A.3 : pause b17
150     low  A.2 : pause b17
151     high A.0 : pause b17
152     low  A.3 : pause b17
153     if w3 < w4 then : goto FIRST_1 : endif
154     return
155
156 CIV:  gosub COMMON : hSerPtr = 0
157     serout c.7, T1200, ($FE, $FE, $70, $E0, $3 , $FD)
158     hserin [1000,main], 0, 10
159     get 3 , b26
160     if b26 = 112 then
161         get 6 , b26
162         get 7 , b27
163         get 8 , b1x
164         if b1x > 9 then : b1x = b1x - 6 : endif
165         if b1x > 19 then : b1x = b1x - 6 : endif
166         if b1x > 29 then : b1x = b1x - 18 : endif
167         if b1x = 28 then : b15_last_band = 80 : endif
168         if b1x = 24 then : b15_last_band = 72 : endif
169         if b1x = 21 then : b15_last_band = 64 : endif
170         if b1x = 18 then : b15_last_band = 56 : endif
171         if b1x = 14 then : b15_last_band = 48 : endif
172         if b1x = 10 then : b15_last_band = 40 : endif
173         if b1x = 7  then : b15_last_band = 32 : endif
174         if b1x = 5  then : b15_last_band = 24 : endif
175         if b1x = 3  then : b15_last_band = 16 : endif
176         w15 = b1x*1000 : b1x = 0
177         w11 = b26/16

```

```

178     w14 = b27/16
179     w12 = w14*16 : w12 = b27 - w12 : w12 = w12*10
180     w14 = w14*100
181     w11 = w11 + w12 + w14 + w15
182     gosub A1
183     w14 = w5_fac/100
184     if w11 > w10 then
185         w12 = w11 - w10 + w14
186         gosub DEF
187         w3 = w3 + w12
188         else
189         w12 = w10 - w11 + w14
190         gosub DEF
191         w3 = w3 - w12
192     endif
193     setfreq m8: serout b.6, N2400, (254,192): serout b.6,
N2400, ( #w11, " " ) :setfreq em64
194     endif
195     b4 = 1
196     sound b.0, (50,100) : b1x= 0 : setfreq m8: serout b.6,
N2400, (254,128) :serout b.6, N2400, ("WAIT " ) : setfreq em64
197     b17 = 3 : gosub DIRECTION
198     sound B.0, (60,200 )
199     goto main
200
201     INIT: setfreq em64: settimer t1s_4
202
203     EEPROM 5, (1) : EEPROM 6, (70)
204     EEPROM 13, (1) : EEPROM 14, (90)
205     EEPROM 21, (3) : EEPROM 22, (65)
206     EEPROM 29, (5) : EEPROM 30, (00)
207     EEPROM 37, (7) : EEPROM 38, (10)
208     EEPROM 45, (10) : EEPROM 46, (12)
209     EEPROM 53, (14) : EEPROM 54, (25)
210     EEPROM 61, (18) : EEPROM 62, (10)
211     EEPROM 69, (21) : EEPROM 70, (25)
212     EEPROM 77, (24) : EEPROM 78, (95)
213     EEPROM 85, (28) : EEPROM 86, (45)
214     EEPROM 93, (30) : EEPROM 94, (00)
215     EEPROM 101, (55) : EEPROM 102, (10)
216     EEPROM 109, (55) : EEPROM 110, (20)
217     EEPROM 117, (55) : EEPROM 118, (30)
218
219     EEPROM 2 , (20) : EEPROM 3 , (1)
220     EEPROM 10 , (30) : EEPROM 11 , (1)
221     EEPROM 18 , (40) : EEPROM 19 , (1)
222     EEPROM 26 , (50) : EEPROM 27 , (1)
223     EEPROM 34 , (14) : EEPROM 35 , (0)
224     EEPROM 42 , (40) : EEPROM 43 , (0)
225
226     EEPROM 50 , (105) : EEPROM 51 , (0)

```

```

227 EEPROM 58 , (175)      : EEPROM 59 , (0)
228 EEPROM 66 , (169)      : EEPROM 67 , (0)
229 EEPROM 74 , (83)       : EEPROM 75 , (0)
230 EEPROM 82 , (28)       : EEPROM 83 , (0)
231 EEPROM 90 , (130)      : EEPROM 91 , (1)
232 EEPROM 98 , (140)      : EEPROM 99 , (1)
233 EEPROM 106, (150)      : EEPROM 107 , (1)
234 EEPROM 114, (160)      : EEPROM 115 , (1)
235
236 EEPROM 0, (0)          : EEPROM 1, (5)
237   EEPROM 8, (0)         : EEPROM 9, (5)
238   EEPROM 16, (0)        : EEPROM 17, (5)
239   EEPROM 24, (0)        : EEPROM 25, (5)
240 EEPROM 32, (124)      : EEPROM 33, (5)
241   EEPROM 40, (168)      : EEPROM 41, (54)
242   EEPROM 48, (20)       : EEPROM 49, (80)
243   EEPROM 56, (102 )    : EEPROM 57, (90)
244   EEPROM 64, (169)      : EEPROM 65, (96)
245   EEPROM 72, (198)      : EEPROM 73, (108)
246   EEPROM 80, (19)       : EEPROM 81, (137)
247   EEPROM 88, (214)      : EEPROM 89, (181)
248   EEPROM 96, (0)        : EEPROM 97, (139)
249   EEPROM 104, (0)       : EEPROM 105, (140)
250   EEPROM 112, (0)       : EEPROM 113, (141)
251
252       EEPROM 120, (0)    : EEPROM 121, (255)
253       EEPROM 122, (20)   : EEPROM 123, (80)
254       EEPROM 124, (48)
255
256       read 120,B12 : read 121, B13
257
258       read 122,b8 : read 123,b9
259       read 124,b15_last_band
260       read 125,b14
261
262       b0x = b15_last_band + 5 : read b0x , b28 :
b0x=b15_last_band + 6: read b0x, B29
263       gosub fr_format
264       b0x = b15_last_band + 2 :read b0x,b10: b0x = b0x + 1 :
read b0x,b11
265       b0x = b15_last_band : read b0x,B30 : b0x =b0x + 1
read b0x ,B31
266       pause 5000
267       setfreq m8 : serout b.6, N2400, (254,1)
268       gosub FAC_SCREEN
269       gosub SCREEN
270       w3 = w4
271       hsersetup B9600_64, %00
272       pause 1000
273 return
274 DEFAULT:

```

```
275 write 122,29
276 write 123,80
277 write 124,48
278
279 write 56,102
280 write 57,90
281 write 58,175
282 write 59,0
283
284 write 24,0
285 write 25,5
286 write 26,50
287 write 27,1
288
289 write 32,124
290 write 33,5
291 write 34,14
292 write 35,0
293
294 write 40,168
295 write 41,54
296 write 42,40
297 write 43,43
298
299 write 48,20
300 write 49,80
301 write 50,106
302 write 51,0
303
304 write 56,102
305 write 57,90
306 write 58,175
307 write 59,0
308
309 write 64,169
310 write 65,96
311 write 66,169
312 write 67,0
313
314 write 72,198
315 write 73,108
316 write 74,83
317 write 75,0
318
319 write 80,19
320 write 81,137
321 write 82,28
322 write 83,0
323
324 write 88,214
325 write 89,181
326 write 90,130
```

327 write **91,1**

328

329 RESET