

EPROM 8

These are the patches I used around 1988. In May 2018 I was able to read my old EPROM.

To apply the patches you need an original ROM file (called "48.rom" here) as well as the free tool "sfk.exe" from <http://stahlworks.com/dev/swiss-file-knife.html>

Create the patched ROM (here "eprom8.rom") from a command-line interface with:
makerom 48.rom eprom8.rom

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Disable the NMI routine

```
0066: FB      EI
0067: ED 45    RETN
```

Change Token Case

```
0095-0204: Rnd, Inkey$, pi, ..., Copy
```

Replace TO with "~" (tilde)

```
026F: 7F      "~"
1A93: 7F      "~"
```

example: For i=1~10

White font on black background

```
055A: 3E 00    LD A,$00 ; black border at LOAD
11CC: 3E 00    LD A,$00 ; black border at NEW
1265: 3E 07    LD A,$07 ; white on black
```

Initialize faster repeat delay (REPDEL, 1 instead of 5)

```
1270: 21 23 01  LD HL,$0123
```

Change start message to EPROM version.

```
1539: "EPROM 8" (instead of "Â© 1982...")
```

Support a custom printer

```
15BE: 6E 38    ; Address of the mc routine
```

Custom Printer Routine

```
386E F5      PUSH AF
386F 18 16    JR  $3887
```

```
3871 F5      PUSH AF
3872 FE 80 08 CP  $80
3874 38 11    JR  C,$3887
```

```
3876 FE A5    CP  $A5 ; first token RND
3878 30 06    JR  NC,$3880
387A F1      POP  AF
387B 3E 3F    LD  A,$3F
```

```

387D F5    PUSH AF
387E 18 07  JR   $3887

3880 D6 A5   SUB  $A5
3882 CD 10 0C CALL $0C10 ; print token
3885 F1     POP  AF
3886 C9     RET

3887 3E 0F   LD   A,$0F
3889 D3 5D   OUT  ($5D),A
388B 3E FF   LD   A,$FF
388D D3 7F   OUT  ($7F),A
388F 3E 01   LD   A,$01
3891 D3 7F   OUT  ($7F),A
3893 3E 02   LD   A,$02
3895 D3 3F   OUT  ($3F),A
3897 DB 3F   IN   A,($3F)
3899 FE 03   CP   $03
389B 28 FA   JR   Z,$3897
389D F1     POP  AF
389E D3 1F   OUT  ($1F),A
38A0 F5     PUSH AF
38A1 3E 00   LD   A,$00
38A3 D3 3F   OUT  ($3F),A
38A5 3E 02   LD   A,$02
38A7 D3 3F   OUT  ($3F),A
38A9 F1     POP  AF
38AA FE 0D   CP   $0D
38AC 20 07  JR   NZ,$38B5
38AE 3E 0A   LD   A,$0A
38B0 D3 1F   OUT  ($1F),A
38B2 F5     PUSH AF
38B3 18 EC   JR   $38A1
38B5 C9     RET
38B6 00     NOP

```

Change plot-range: 0..175 to 0..191

22AB: AF BF

Custom character set with German Umlaute

3D00..3FFF: (see gkn-font.pat)

Have fun!