```
                        ERROR MESSAGE

02B0   9B    GHI   RB
  B1   B6    PHI   R6    ;Set R6 = last row on page
  B2   F8    LDI
  B3   D8                ;For error display
  B4   A6    PLO   R6
  B5   D4    SEP   R4
  B6   02                ;Call Display Digit to display
  B7   00                ;Error number in RE.0
  B8   16    INC   R6    ;R6.+ 1 to create space
  B9   F8    LDI
  BA   0E
  BB   AE    PLO   RE    ;RE.0 = 0E
  BC   D4    SEP   R4
  BD   02                ;Call Display Digit ("E" for error)
  BE   00
  BF   F8    LDI
02C0   80
  C1   A8    PLO   R8    ;Tone on
  C2   23    DEC   R3    ;Halt program
* See INSERT

                        CALL ROUTINE

0300   D3    SEP   R3    ;Exit/Call sub with R3 as PC
  01   E2    SEX   2     ;X = 2; Entry point
  02   97    GHI   R7
  03   73    STXD        ;Push R7.1  (Save old return address)
  04   87    GLO   R7
  05   73    STXD        ;Push R7.0  (Save old return address)
  06   93    GHI   R3    ;Save the return address
  07   B7    PHI   R7    ;  "          "       "
  08   83    GLO   R3    ;  "          "       "
  09   A7    PLO   R7    ;  "          "       "
  0A   47    LDA   R7    ;Load sub routine address into R3
  0B   B3    PHI   R3    ;  "    "   "          "        " "
  0C   47    LDA   R7    ;  "    "   "          "        " "
  0D   A3    PLO   R3    ;  "    "   "          "        " "
  0E   30    BR          ;Branch to exit
  0F   00

                        RETURN ROUTINE

0310   D3    SEP   R3    ;Exit to main (Calling) routine
  11   97    GHI   R7    ;Entry point
  12   B3    PHI   R3
  13   87    GLO   R7    ;R7→R3 - load the return address
  14   A3    PLO   R3
  15   E2    SEX   2     ;X = 2
  16   60    IRX         ;Point to saved R7
  17   72    LDXA        ;Pop R7.0
```