

```

;DOSCOPY ROM LOADER
;ILN 29/07/94
;DISABLE ALL ROMS EXCEPT AMSDOS
;
TXTOUT EQU #BB5A
INITBK EQU #BCCE
STPROG EQU #BD16
;
RESRUN EQU #BF08 ;RESET & RUN AMSDOS
DCBEG EQU #7000 ;DOSCOPY RUN ADDR
ASMBLE EQU 40500 ;ASSEMBLY ADDRESS
;
        ORG #C000
        DISP ASMBLE
;
START  DEFB 1           ;BACKGROUND ROM
        DEFB 1,0,0     ;VERSION REFS
        DEFW NMETAB    ;POINT RSX NAMES
        JP INIT        ;ROM INITIALISE
        JP DOSCPY     ;LOAD VIA 'DOSCOPY
        JP DOSCPY     ;LOADER VIA 'DC
;
NMETAB DEFM "DOSCOPY RO"
        DEFB #CD
        DEFM "DOSCOP"
        DEFB #D9
        DEFM "D"
        DEFB #C3
        DEFB 0
;
INIT   PUSH DE ;STORE 1st MEM LOC
        PUSH HL ;STORE LAST MEM LOC
        LD HL,LOGMES
        CALL STROUT
        POP HL ;RESTORE 1st MEM LOC
        POP DE ;RESTORE LAST MEM LOC
        SCF ;LOGON OK
        RET
;
;COPY CODE FROM ROM TO RAM AND JUMP
;
DOSCPY LD HL,DOSDAT ;COPY DOS INIT
        ; ROUTINE
        LD DE,RESRUN ;DEST ADDR
        LD BC,DOSLEN ;ROUTINE LENGTH
        LDIR
;
        LD HL,DCDAT ;COPY D-COPY CODE
        LD DE,DCBEG ;D-COPY DEST
        LD BC,DCLEN ;D-COPY LENGTH
        LDIR
;
        LD C,#FF ;ROM SEL DISABLE
        ; U & L ROMS
        LD HL,INITAM ;POINT TO AMSDOS
        ;INIT ROUTINE
        CALL STPROG ;INIT CPC AND
        ;JP TO A-DOS INIT ROUT
;
;ASSEMBLER INFO FOR AMSDOS INIT CODE

```

```

;
DOSDAT EQU $ ;CURR ASSEM
; ADDRESS
LSF1 EQU DOSDAT-START ;CODE LEN
; SO FAR
ORG RESRUN ;DEST ADDR
; OF AMSDOS INIT CODE
DISP ASMBLE+LSF1 ;MAKE SURE
; ASSEMBLY IS CONSECUTIVE
;
;INIT A-DOS & JP TO DCOPY START ADDR
;
INITAM LD HL,#ABFF ;MEMORY MAX
LD DE,#40 ;MEMORY MIN
LD C,7 ;AMSDOS POSITION
CALL INITBK
;
JP DCBEG ;DOSCOPY SA
;
;ASSEMBLER INFO FOR AMSDOS INIT CODE
;
ASOFAR EQU $ ;ASSEM ADDR SO FAR
DOSLEN EQU ASOFAR-INITAM ;LEN SO FAR
;
;ASSEMBLER INFO FOR REST OF CODE
;
ORG DOSDAT+DOSLEN ;ASSEM ADDR
; BACK INTO ROM RANGE
DISP ASMBLE+LSF1+DOSLEN ;ENSUR ASSEM
; IS CONSECUTIVE
;
;STRING PRINTING ROUTINE
;
STROUT LD A,(HL) ;GET CHARACTER
OR A ;SET FLAGS
RET Z ;RETURN IF ZERO
CALL TXTOUT ;PRINT CHARACTER
INC HL ;POINT TO NEXT CHR
JR STROUT ;DO IT ALL AGAIN
;
LOGMES DEFM " DOSCOPY ROM v1.0"
DEFB #0A,#0D,#0A,0
;
HACKER DEFM "ALL CODE (Ex DOSCOPY)
COPYRIGHT IAN NEILL 1994 "
DEFM "FOR OTHER INFO CONTACT"
DEFM "IAN NEILL, "
DEFM "11 MILLWAY DRIVE, "
DEFM "BISHOPS TACHBROOK, "
DEFM "LEAMINGTON SPA. "
DEFM "CV33 9SE"
;DOSCOPY CODE IN HERE.....
;
DCDAT EQU $
DCLEN EQU #1EAE
;
;END OF DOSCOPY ROM PROGRAM
END EQU $
LENGTH EQU END-START
ROMLEN EQU LENGTH+DCLEN

```

## FIGURE 5

```
10 'Rom Dump Program
20 'by Ian Neill
30 'Copies ROMS from 0 - 15 to disc
40 'Omits BASIC ROM and DISC ROM 7
50 MEMORY &3FFF
60 MODE 1
70 FOR x=&9000 TO &9117:READ x$:
   POKE x,VAL("&"+x$):NEXT
80 CALL &9000
90 DATA 21,7C,90,CD,73,90,CD,18,BB
100 DATA 21,C1,90,CD,73,90,0E,00,C5
110 DATA CD,15,B9,FE,80,C4,2C,90,21
120 DATA 10,91,34,C1,0C,79,FE,10,20
130 DATA EC,21,D1,90,CD,73,90,C9,79
140 DATA FE,07,C8,01,00,DF,ED,79,CD
150 DATA 00,B9,21,00,C0,11,00,40,01
160 DATA 00,40,ED,B0,CD,03,B9,06,0A
170 DATA 21,0B,91,11,15,91,CD,8C,BC
180 DATA 30,16,3E,02,01,00,00,11,00
190 DATA 40,21,00,40,CD,98,BC,30,06
200 DATA CD,8F,BC,30,01,C9,21,E5,90
210 DATA CD,73,90,CD,18,BB,C9,7E,B7
220 DATA C8,CD,5A,BB,23,18,F7,0A,0A
230 DATA 0D,45,58,54,45,52,4E,41,4C
240 DATA 20,52,4F,4D,20,44,55,4D,50
250 DATA 20,52,4F,55,54,49,4E,45,0A
260 DATA 0A,0D,62,79,20,49,41,4E,20
270 DATA 4E,45,49,4C,4C,0A,0A,0D,50
280 DATA 52,45,53,53,20,41,4E,59,20
290 DATA 4B,45,59,20,54,4F,20,53,54
300 DATA 41,52,54,00,0A,0A,0D,43,4F
310 DATA 50,59,49,4E,47,2E,2E,2E,2E
320 DATA 2E,00,0A,0A,0D,2E,2E,2E,2E
330 DATA 2E,46,49,4E,49,53,48,45,44
340 DATA 0A,0A,0D,00,0A,0A,0D,53,41
350 DATA 56,49,4E,47,20,45,52,52,4F
360 DATA 52,20,2D,20,41,4E,59,20,4B
370 DATA 45,59,20,54,4F,20,43,4F,4E
380 DATA 54,49,4E,55,45,00,49,4D,41
390 DATA 47,45,41,2E,52,4F,4D,00,00
400 DATA 00,00,00,00,00,00,00,00,00
```

## FIGURE 4

```
10 'ROM expansion board test prog
20 DEFINT a,b
30 MODE 1
40 b=0
50 MEMORY &3FFF
60 FOR a=&BF00 TO &BF10
70 READ b$:POKE a,VAL("&" + b$)
80 NEXT
90 PRINT"Expansion ROM test program"
   :PRINT
100 FOR a=0 TO 15
110 CALL &BF00,@b,a
120 PRINT a;:IF b=0 THEN PRINT".....
   Foreground" ELSE IF b=1 THEN
   PRINT".....Background" ELSE IF
   b<>&80 THEN PRINT".....Empty"
   ELSE PRINT"....BASIC ROM Respond
   ed"
130 NEXT
140 END
150 DATA dd,4e,0,cd,15,b9,dd,6e,2,dd
   ,66,3,77,23,36,0,c9
```