

SWAPPER'S BEST COPY

080D A5 BA LDA #BA Geräteadresse
 080F 85 4C STA #4C Quellcode
 0811 85 4D STA #4D Zielladresse
 0813 A9 0D LDA #0D
 0815 8D 18 03 STA #0318 } Bei STOP+RESTORE
 0818 A9 08 LDA #08 Neustart
 081A 8D 19 03 STA #0319
 081D 20 74 13 JSR #1374
 0820 A9 1B LDA #1B } Textmodus
 0822 8D 11 D0 STA #D011
 0825 4E 089E LDA #089E
 0827 8D 1235 STA #D026 } Screen Schwarz
 082A A9 00 LDA #00
 082C 8D 21 D0 STA #D021
 082F 20 BF 0E JSR #0EBF
 0832 20 40 0F JSR #0F40
 0835 A9 00 LDA #00
 0837 8D 91 02 STA #0291 } Groß/Klein-Umschaltung
 083A A9 BE LDA #BE zulassen
 083D 20 D2 FF JSR #FFD2 } Kleinschrift
 0840 A9 80 LDA #80 } Kleinschrift verriegeln
 0841 8D 91 02 STA #0291 } Spritze #0 einschalten
 0844 A9 01 LDA #01 } gewählt = 1
 0846 8D 15 D0 STA #D015
 0849 A9 01 LDA #01
 084B 85 02 STA #02 } Interrupts an (?)
 084D 58 CLI
 084E A6 02 LDX #02
 0850 8D 94 13 LDA #1394,X
 0853 8D 01 D0 STA #D001 Spritze-K-Wert setzen
 0856 A9 92 LDA #92 } Revers aus
 0858 20 D2 FF JSR #FFD2
 085B A0 0C LDY #0C Spalte 12
 085D A2 0A LDX #0A Zeile 10
 085F 18 CLC
 0860 20 F0 FF JSR #FFFF Cursor setzen
 0863 A5 02 LDA #02 gewählt
 0865 C9 01 CMP #01 = 1?
 0867 D0 05 BNE #086E nein
 0869 A9 12 LDA #12 } Revers an
 086B 20 D2 FF JSR #FFD2
 086E 20 54 0D JSR #0D54 PRIMM
 0871 05 C ORA #43
 0873 05 Y BVE #080F
 0874 05 D 4F JSR #4944 } EICOPY DISK
 0876 20 05 00 JSR #0005
 0879 05 R JSR #0005
 087A 05 00 JSR #0000
 087B 20 20 20 JSR #2020
 087E 20 20 20 JSR #2020
 0881 20 00 A9 JSR #A900
 0883 A8 A2 LDA #82 RVS off
 0885 20 D2 FF JSR #FFD2 drucken
 0888 A0 0C LDY #0C
 088A A2 0E LDX #0E Cursor nach 12/12
 088C 18 CLC
 088D 20 F0 FF JSR #FFFF setzen
 0890 A5 02 LDA #02 gewählt
 0892 C9 02 CMP #02 = 2?

0894 D0 05 BNE #089E nein
 0896 A9 12 LDA #12 } RVS an
 0898 20 D2 FF JSR #FFD2
 089B 20 54 0D JSR #0D54 PRIMM
 089E 05 S JSR #0005
 089F 05 00 JSR #0000
 08A0 05 U R JSR #0005
 08A2 05 E JSR #0005
 08A3 20 20 20 JSR #2020
 08A5 20 20 20 JSR #2020
 08AB 20 20 3A JSR #3A20
 08AB 20 00 00 JSR #0030
 08AE A5 4C LDA #4C Geräteadresse Quelle
 08B0 09 30 ORA #30 nach ASCII
 08B2 20 D2 FF JSR #FFD2 ausgeben
 08B5 A9 92 LDA #92 } RVS off
 08B7 20 D2 FF JSR #FFD2
 08BA A0 0C LDY #0C
 08BC A2 0E LDX #0E } Cursor 12/14
 08BE 18 CLC
 08BF 20 F0 FF JSR #FFFF
 08C2 A5 02 LDA #02 gewählt
 08C4 C9 03 CMP #03 = 3?
 08C6 D0 05 BNE #08ED nein
 08C8 A9 12 LDA #12 } RVS an
 08CA 20 D2 FF JSR #FFD2
 08CD 20 54 0D JSR #0D54 PRIMM
 08D0 05 D JSR #0005
 08D1 05 E S JSR #0005
 08D3 05 T JSR #0005
 08D4 05 N JSR #0005
 08D6 A 74 JSR #74
 08D8 05 O JSR #0005
 08DA N 20 3A LSR #3A20
 08DD 20 00 00 JSR #0030
 08E0 A5 4C LDA #4C Geräteaddr. Ziel
 08E2 09 30 ORA #30 nach ASCII
 08E4 20 D2 FF JSR #FFD2 ausgeben
 08E7 A9 92 LDA #92 } RVS off
 08E9 20 D2 FF JSR #FFD2
 08EC A0 0C LDY #0C
 08EE A2 10 LDX #10 } Cursor 12/18
 08F0 18 CLC
 08F1 20 F0 FF JSR #FFFF
 08F4 A5 02 LDA #02 gewählt = 4?
 08F6 C9 04 CMP #04
 08F8 D0 05 BNE #08FF nein
 08FA A9 12 LDA #12 RVS an
 08FC 20 D2 FF JSR #FFD2
 08FF 20 54 0D JSR #0D54 PRIMM
 0900 05 S JSR #0005
 0903 05 00 JSR #0000
 0904 05 F 74 LSR #74
 0906 05 W JSR #0005
 0907 05 I R JSR #0005
 0909 05 E JSR #0005
 090B 05 D JSR #0005
 090C 05 P JSR #0005
 090D 05 V JSR #0005
 090F 05 E S JSR #0005
 0911 20 00 A9 JSR #A900 } SOFTWARE DRIVES

```

0914 48 92 LDA #92 } RVSoff
0915 20 D2 FF JSR $FFD2
0918 20 E4 FF JSR $FFE4 Taste holen
091B D0 14 BNE #0931 Taste gedrückt
091D A2 70 LDX #70
091F A0 00 LDY #00
0921 B8 DEY
0922 D0 FD BNE #0921 } 0,13 sec
0924 CA DEX warten
0925 D0 FA BNE #0921
0927 AD 27 D0 LDA $D027
092A 49 01 EOR #01 } Farbe ändern
092C 8D 27 D0 STA $D027
092F D0 E7 BNE #091B } zeilen
0931 C9 00 CMP #00 CR?
0933 F0 5B BEQ #0990 ja
0935 C9 BC CMP #BC
0937 D0 03 BNE #093C
0939 4C B2 11 JMP $11B2
093C C9 B5 CMP #B5
093E D0 04 BNE #0944
0940 A5 4C LDA #4C
0942 D0 06 BNE #094A
0944 C9 B6 CMP #B6
0946 D0 1C BNE #0964
0948 A5 4D LDA #4D
094A B5 BA STA #BA
094C 20 76 12 JSR $1276
094F A9 00 LDA #00
0951 BD 15 D0 STA $D015
0954 BD 21 D0 STA $D021
0957 20 54 0D JSR $0D54
095A 05 C7 ORA #C7
095C 20 00 20 JSR $2000
095F A0 0F LDY #0F
0961 4C 25 0B JMP $0B25
0964 C9 11 CMP #11
0966 D0 03 BNE #096B
0968 4C 75 09 JMP $0975
096B C9 91 CMP #91
096D D0 03 BNE #0972
096F 4C 85 09 JMP $0985
0972 4C 1B 09 JMP $091B
0975 E6 02 INC #02
0977 A5 02 LDA #02
0979 C9 05 CMP #05
097B 90 04 BCC #0981
097D A9 01 LDA #01
097F B5 02 STA #02
0981 4C 4E 0B JMP $0B4E
0984 24 C6 BIT #C6
0986 02 ???
0987 D0 04 BNE #098D
0989 A9 04 LDA #04
098B B5 02 STA #02
098D 4C 4E 0B JMP $0B4E
0990 A5 02 LDA #02
0992 C9 01 CMP #01
0994 D0 0B BNE #09A1
0996 A9 00 LDA #00
0998 BD 15 D0 STA $D015
099B 20 CB 09 JSR $09CB

```

gewählt = 1? kopieren?

kein } Sprite weg kopieren

```

099E 4C 25 0B JMP $0B25 zum Menu
09A1 C9 02 CMP #02
09A3 D0 13 BNE #09B8
09A5 A5 4C LDA #4C
09A7 C5 4D CMP #4D
09A9 F0 07 BEQ #09B2
09AB A5 4D LDA #4D
09AD B5 4C STA #4C
09AF 4C 4E 0B JMP $0B4E
09B2 49 01 EOR #01
09B4 B5 4D STA #4D
09B6 D0 F7 BNE #09AF
09B8 C9 03 CMP #03
09BA F0 E9 BEQ #09A5
09BC C9 04 CMP #04
09BE D0 0B BNE #09C8
09C0 A9 00 LDA #00
09C2 BD 15 D0 STA $D015
09C5 20 AF 12 JSR $12AF
09C8 4C 25 0B JMP $0B25
09CB A2 22 LDX #22
09CD A9 20 LDA #20
09CF 9D AE 0E STA $0EAE
09D2 9D 99 0E STA $0E99
09D5 CA DEX
09D6 10 F7 BPL #09DF
09DB 20 76 12 JSR $1276
09DB 20 DB 0D JSR $0DDB Bildschirmmake
09DE A9 31 LDA #31 < Pass "1"
09E0 BD AA 0C STA $0CAA ablegen
09E3 20 2A 0C JSR $0C2A Source Disk einlegen, Pass 1
09E6 A5 4C LDA #4C akt. Drive :=
09E8 B5 BA STA #BA Quellplatte
09EA 20 12 12 JSR $1220 LISTEN
09ED A9 49 LDA #49 "I" Drive-1 mit
09EF 20 AB FF JSR $FFAB an IEC-Bus senden
09F2 20 AB FF JSR $FFAE UNLISTEN
09F5 A9 05 LDA #05 dränge = 5
09F7 A2 0E LDX #0E } $0C0E M-R $1000
09F9 A9 0C LDY #0C
09FB 20 76 12 JSR $1276 Filnam
09FE A9 4F LDA #4F Sekundärdr.
0A00 B5 B9 STA #B9 ablegen
0A02 20 DB 13 JSR $13DB OPEN
0A05 A5 4C LDA #4C
0A07 20 B4 FF JSR $FFB4 TALK
0A0A A5 B9 LDA #B9
0A0E 20 96 FF JSR $FF96 TALK!
0A0F A9 00 LDA #00
0A11 20 96 FF JSR $FF96 } Status löschen
0A13 20 A5 FF JSR $FFA5 Byte holen
0A16 4B PHA mehren
0A17 20 42 F6 JSR $F642 CLOSE
0A1A 6B 77 PLA Byte
0A1B 29 10 AND #10
0A1D D0 03 BNE #0A22
0A1F 4E 74 0A JMP $0A74
0A22 A0 04 LDY #04
0A24 A2 12 LDX #12
0A26 1B CLC
0A27 20 F0 FF JSR $FFF0

```

Schreibschutz

Cursor 4/18

256 x 5
 1180
 - 1
 1179
 + 5
 1184 x 7
 8288

8288 x 16
 8288
 49728
 132608

3

```

OB31 78 SEI
OB32 A9 32 LDA #32 } PASS 2
OB34 8D AA 0C STA #0CAA
OB37 20 13 0C JSR #0C13 Quelldisk & Fig. starten
OB3A A9 19 LDA #19 } Daten ab 01800
OB3C 85 FC STA #FC
OB3E A9 06 LDA #06 6 Spalten
OB40 A0 15 LDY #15 à 21 Sektoren
OB42 20 5B 10 JSR #105B lesen
OB45 A9 05 LDA #05 5 Spalten
OB47 A0 13 LDY #13 à 19 Sektoren
OB49 20 5B 10 JSR #105B lesen
OB4C 20 C1 0D JSR #0DC1 Fehlerausw.
OB4F 18 CLC
OB50 20 AB 0C JSR #0CAB Zieldisk & Floppy starten
OB53 A9 0C LDA #0C } Track = 12
OB55 85 03 STA #03
OB57 8D 17 11 STA #1117
OB5A A9 19 LDA #19 } Daten ab 01900
OB5C 85 FC STA #FC
OB5E A9 06 LDA #06 6 Spalten
OB60 A0 15 LDY #15 à 21 Sektoren
OB62 20 BC 10 JSR #10BC schreiben
OB65 A9 05 LDA #05 5 Spalten
OB67 A0 13 LDY #13 à 19 Sektoren
OB69 20 BC 10 JSR #10BC schreiben
OB6C 20 AB 0D JSR #0DAB Fehler
OB6E A9 17 LDA #17 } Spurs := 23
OB71 85 03 STA #03
OB73 8D 17 11 STA #1117
OB76 78 SEI
OB77 A9 33 LDA #33 PASS := '3'
OB79 8D AA 0C STA #0CAA
OB7C 20 13 0C JSR #0C13 Quelldisk
OB7E A9 19 LDA #19 } Daten ab 01900
OB81 85 FC STA #FC
OB83 A9 02 LDA #02 2 Spalten
OB85 A0 13 LDY #13 à 19 Sektoren
OB87 20 5B 10 JSR #105B lesen
OB8A A9 06 LDA #06 6 Spalten
OB8C A0 12 LDY #12 à 18 Sektoren
OB8E 20 5B 10 JSR #105B lesen
OB91 A9 05 LDA #05 5 Spalten
OB93 A0 11 LDY #11 à 17 Sektoren
OB95 20 5B 10 JSR #105B lesen
OB98 20 C1 0D JSR #0DC1 Fehler
OB9B 18 CLC
OB9D 20 AB 0C JSR #0CAB Zieldisk
OB9F A9 17 LDA #17 } Spurs := 23
OBA1 85 03 STA #03
OBA3 8D 17 11 STA #1117
OBA6 A9 19 LDA #19 } Daten ab 01800
OBAB 85 FC STA #FC
OBAA A9 02 LDA #02 2 Spalten
OBAC A0 13 LDY #13 à 19 Sektoren
OBAD 20 BC 10 JSR #10BC schreiben
OBB1 A9 06 LDA #06 6 Sp.
OBB3 A0 12 LDY #12 à 18 sekt.
OBB5 20 BC 10 JSR #10BC schreib.
OBB8 A9 05 LDA #05 5 Sp.
OBBA A0 11 LDY #11 à 17 Sekt.
OBBB 20 BC 10 JSR #10BC schreib.

```

```

OBDF 20 AB 0D JSR #0DAB Fehler
OBC2 58 CLC
OBC3 A9 00 LDA #00 } Rahmen schwarz
OBC5 8D 20 D0 STA #D020
OBC8 A0 02 LDY #02 } Cursor
OBCE A2 0E LDX #0E
OBCC 18 CLC
OBED 20 F0 FF JSR #FFFF PRIMM
OBEO 20 54 0D JSR #0D54
OBD3 20 20 20 JSR #2020
OBD6 20 20 43 JSR #4320
OBD9 4F ???
OBDA 50 59 BVC #0C35 COPY COMPLET
OBDC 20 43 4F JSR #4F43 PRESS
OBDF 4D 50 4C EOR #4C50
OBE2 45 54 EOR #54
OBE4 45 3A EOR #3A RETURN
OBE6 20 50 52 JSR #5250
OBE9 45 53 EOR #53
OBEB 53 ???
OBEC 20 52 45 JSR #4552
OBEF 54 ???
OBF0 55 52 EOR #52,X
OBF2 4E 20 20 LSR #2020
OBF5 20 20 20 JSR #2020
OBF8 00 BRK
OBF9 20 E4 FF JSR #FFE4 } auf CR warten
OBFC C9 0D CMP #0D (dann gibt es noch eine Unteroutine ...)
OBFE D0 F9 BNE #0BF9
OC00 80 RTS
OC01 M = W EOR #572D
OC04 FF JSR #FF }
OC05 03 JSR #03 }
OC06 01 EOR #01 }
OC08 4D 2D 52 EOR #522D
OC0B 16 00 ASL #00,X
OC0D 02 ???
OC0E M = R EOR #522D 709F7
OC11 $1000 BRK
OC12 222
OC13 JSR #0B37 JSR #0C1F Quelldisk einlesen
OC16 A5 4C LDA #4C Quelle
OC18 A2 03 LDX #03 H-E $0403
OC1A A0 04 LDY #04
OC1C 4C 85 12 JMP #1285 senden
OC1F JSR #0C15 LDA #0E Rahmen
OC21 8D 20 D0 STA #D020 hellblau
OC24 A5 4C LDA #4C } Quelle =
OC26 C5 4D CMP #4D } Ziel?
OC28 D0 3C BNE #0C66 nein
OC2A JSR #0BE3 LDY #02 } Cursor = 2/14
OC2C A2 0E LDX #0E
OC2E 18 CLC
OC2F 20 F0 FF JSR #FFFF PRIMM
OC32 20 54 0D JSR #0D54
OC33 2 TX9
OC36 I N EOR #4E
OC38 S ???
OC39 E R EOR #52
OC3B T ???
OC3C 20 S P JSR #4F53

```

```

003F U R EOR $52,X
0041 C ? ? ?
0042 E 20 EOR $20
0044 D - ? ? ?
0045 I S EOR #453
0047 K A N ? ? ?
0048 L A N JSR $4E41
004B D ? ? ?
004C 20 P R JSR $5250
004F E S EOR $53
0051 S ? ? ?
0052 I R E JSR $4552
0055 T ? ? ?
0056 U R EOR $52,X
005B N 20 00 LSR #0020
005B A9 0E LDA #0E
005D BD 20 D0 STA $D020
0060 5B CLI
0061 A9 0D LDA #0D
0063 20 7B 12 JSR $127B
0066 von SATA LDY #02
0068 A2 0E LDX #0E
006C 18 CLC
006D 20 F0 FF JSR $FFFF0
006E 20 54 0D JSR $0D54
0071 92 TXS
0072 20 20 20 JSR $2020
0075 20 20 20 JSR $2020
0078 20 20 20 JSR $2020
007B 20 P A JSR $4150
007E 20 ? ? ?
007F 20 ? ? ?
0080 20 3A 31 JSR $3A31
0083 20 45 52 JSR $4552
0086 A ($44,X) EOR ($44,X)
0088 4E EOR #4E
008A G ? ? ?
008B 20 20 20 JSR $2020
008E 20 20 20 JSR $2020
0091 20 20 20 JSR $2020
0094 20 20 20 JSR $0020
0097 A0 11 LDY #11
0099 A2 0E LDX #0E
009B 18 CLC
009C 20 F0 FF JSR $FFFF0
009F A9 05 LDA #05
00A1 20 D2 FF JSR $FFD2
00A4 AD AA 0C LDA $0CAA
00A7 4E 02 FF JMP $FFD2
00AA 20 0B 12 PNP
00AC A9 07 LDA #07
00AE BD 20 D0 STA $D020
00B1 A5 4C LDA $4C
00B3 C5 4D CMP $4D
00B5 D0 37 BNE $0CEE
00B7 A0 02 LDY #02
00B9 A2 0E LDX #0E
00BB 18 CLC
00BC 20 F0 FF JSR $FFFF0
00BF 20 54 0D JSR $0D54
00C2 9E ? ? ?
00C3 49 4E EOR #4E

```

Insert Source
Disk and
press Return

Rahmen
weiß
Interrupts an
auf CR warten

PRIMM

PASS 1:

READING

Cursor

17/14

Cursor weiß

"1"

drucken

DESTDISK

gelber
Rahmen

Quelle
= Ziel?

kein

Cursor

```

00C5 53 ? ? ?
00C6 45 52 EOR $52
00C8 54 ? ? ?
00C9 20 42 41 JSR $4142
00CC 43 ? ? ?
00CD 4B ? ? ?
00CE 55 50 EOR $50,X
00D0 20 44 49 JSR $4944
00D3 53 ? ? ?
00D4 4B ? ? ?
00D5 20 41 4E JSR $4E41
00D8 44 ? ? ?
00D9 20 50 52 JSR $5250
00DC 45 53 EOR $53
00DE 53 ? ? ?
00DF 20 52 45 JSR $4552
00E2 54 ? ? ?
00E3 55 52 EOR $52,X
00E5 4E 20 00 LSR #0020
00E8 5B CLI
00E9 A9 0D LDA #0D
00EB 20 7B 12 JSR $127B
00EE A0 02 LDY #02
00F0 A2 0E LDX #0E
00F2 18 CLC
00F3 20 F0 FF JSR $FFFF0
00F6 20 54 0D JSR $0D54
00F9 9E TXS
00FA 20 20 20 JSR $2020
00FD 20 20 20 JSR $2020
0000 20 20 20 JSR $2020
0003 20 50 41 JSR $4150
0006 53 ? ? ?
0002 53 ? ? ?
0008 20 31 3A JSR $3A31
000B 20 57 52 JSR $5257
000E 49 54 EOR #54
0010 49 4E EOR #4E
0012 47 ? ? ?
0013 20 20 20 JSR $2020
0016 20 20 20 JSR $2020
0019 20 20 20 JSR $2020
001C 20 20 00 JSR $0020
001F A0 11 LDY #11
0021 A2 0E LDX #0E
0023 18 CLC
0024 20 F0 FF JSR $FFFF0
0027 A9 05 LDA #05
0029 20 D2 FF JSR $FFD2
002C AD AA 0C LDA $0CAA
002F 20 D2 FF JSR $FFD2
0032 A5 4D LDA $4D
0034 A0 04 LDY #04
0036 A2 09 LDX #09
0038 2B PLP
0039 90 02 BCC $0D3D
003D A2 05 LDX #05
003E 4C 85 12 JMP $1285
0040 5B CLI
0041 60 RTS
0042 4B PHA

```

"INSERT BACKUP
DISK AND
PRESS
RETURN"

auf CR warten

Cursor

PRIMM

PASS 1:

WRITING

Cursor

weiß

PASS-Nr.

ausgeben

Ziel

HE \$0409

Carry zurückholen

U-E \$0406

```

,OD43 AA TAX
,OD44 CA DEX
,OD45 BD 0A 0E LDA #0E0A,X
,OD48 20 D2 FF JSR $FFD2
,OD4B 68 PLA
,OD4C AA TAX
,OD4D CA DEX
,OD4E DD 37 0E LDA #0E37,X
,OD51 4C D2 FF JMP $FFD2

```

```

,OD54 JSR von 0800E PHA

```

```

,OD55 BA TXA

```

```

,OD56 48 PHA

```

```

,OD57 98 TYA

```

```

,OD58 48 PHA

```

```

,OD59 A0 00 LDY #00

```

```

,OD5B BA TSX

```

```

,OD5C FE 04 INC #0104,X

```

```

,OD5F D0 03 BNE #0D64

```

```

,OD61 FE 03 01 INC #0105,X

```

```

,OD64 BD 04 01 LDA #0104,X

```

```

,OD67 B5 3B STA #3B

```

```

,OD69 BD 05 01 LDA #0105,X

```

```

,OD6C B5 3C STA #3C

```

```

,OD6E B1 3B LDA (#3B),Y

```

```

,OD70 30 0D BMI #0D7F

```

```

,OD72 F0 05 BEQ #0D7F

```

```

,OD74 20 D2 FF JSR $FFD2

```

```

,OD77 90 E2 BCC #0D5B

```

```

,OD79 68 PLA

```

```

,OD7A AB TAY

```

```

,OD7B 68 PLA

```

```

,OD7C AA TAX

```

```

,OD7D 68 PLA

```

```

,OD7E 60 RTS

```

```

,OD7F C9 00 CMP #00

```

```

,OD81 90 F1 BCC #0D74

```

```

,OD83 38 SEC

```

```

,OD84 E9 C0 SBC #00

```

```

,OD86 B5 3A STA #3A

```

```

,OD88 C8 INY

```

```

,OD89 C6 3A DEC #3A

```

```

,OD8B B1 3B LDA (#3B),Y

```

```

,OD8D 20 D2 FF JSR $FFD2

```

```

,OD90 C6 3A DEC #3A

```

```

,OD92 D0 F7 BNE #0D8B

```

```

,OD94 B8 DEY

```

```

,OD95 F0 C4 BEQ #0D5B

```

```

,OD97 A0 02 LDY #02

```

```

,OD99 A2 12 LDX #12

```

```

,OD9B 18 CLC

```

```

,OD9C 20 F0 FF JSR $FFFF

```

```

,OD9F 20 54 0D JSR #0D54

```

```

,ODA2 E4 20 CPX #20

```

```

,ODA4 0D 1D 1D ORA #1D1D

```

```

,ODA7 E4 20 CPX #20

```

```

,ODA9 00 BRK

```

```

,ODAA 60 RTS

```

```

,ODAB JSR von 0827 JSR #123B

```

```

,ODAE A0 00 LDY #00

```

```

,ODB0 A9 7A LDA #7A

```

```

,ODB2 BE 00 1B LDX #1800,Y

```

```

,ODB5 D0 03 BNE #0DBA

```

```

,ODB7 4C 5B 0E JMP #0E5B

```

```

,ODBA CA DEX

```

```

,ODBB 9D 99 0E STA #0E99,X

```

```

,ODBE C8 INY

```

```

,ODBF D0 F1 BNE #0DB2

```

```

,ODC1 JSR von 0800E JSR #123B

```

```

,ODC4 A0 00 LDY #00

```

```

,ODC6 A9 7A LDA #7A

```

```

,ODCB BE 00 1B LDX #1800,Y

```

```

,ODCD D0 03 BNE #0DD0

```

```

,ODD0 CA DEX

```

```

,ODD1 9D 6E 0E STA #0E6E,X

```

```

,ODD4 C8 INY

```

```

,ODD5 D0 F1 BNE #0DEB

```

```

,ODD7 60 RTS

```

```

,ODDB JSR von 0830B JSR #0EBF

```

```

,ODDB A0 00 LDY #00

```

```

,ODDD A2 1B LDX #1B

```

```

,ODDF 1B CLC

```

```

,ODE0 20 F0 FF JSR $FFFF

```

```

,ODE3 20 54 0D JSR #0D54

```

```

,ODE6 0E ORA #22

```

```

,ODEB 0E ORA #22

```

```

,ODE9 0E ORA #22

```

```

,ODEA 20 3D JSR #203D

```

```

,ODED 0E ORA #22

```

```

,ODEE 0E ORA #22

```

```

,ODF0 0E ORA #22

```

```

,ODF1 20 3D JSR #203D

```

```

,ODF4 0E ORA #22

```

```

,ODF5 0E ORA #22

```

```

,ODF6 0E ORA #22

```

```

,ODF7 0E ORA #22

```

```

,ODF8 00 BRK

```

```

,ODF9 A0 00 LDY #00

```

```

,ODFB A2 09 LDX #09

```

```

,ODFD 1B CLC

```

```

,ODFE 20 F0 FF JSR $FFFF

```

```

,OE01 20 54 0D JSR #0D54

```

```

,OE04 0E ORA #22

```

```

,OE05 0E ORA #22

```

```

,OE06 0E ORA #22

```

```

,OE07 0E ORA #22

```

```

,OE09 0E ORA #22

```

```

,OE0A 20 20 20 JSR #2020

```

```

,OE0D 20 20 20 JSR #2020

```

```

,OE10 20 20 20 JSR #2020

```

```

,OE11 1 1 AND (#31),Y

```

```

,OE12 1 1 AND (#31),Y

```

```

,OE13 1 1 AND (#31),Y

```

```

,OE14 1 1 AND (#31),Y

```

```

,OE15 1 1 AND (#31),Y

```

```

,OE16 1 1 AND (#31),Y

```

```

,OE17 1 1 AND (#31),Y

```

```

,OE18 1 1 AND (#31),Y

```

```

,OE19 1 1 AND (#31),Y

```

```

,OE1B 1 1 AND (#31),Y

```

```

,OE1D 2 ???

```

```

,OE1E 2 ???

```

```

,OE1F 2 ???

```

```

,OE20 2 ???

```

```

,OE21 2 ???

```

```

,OE22 2 ???

```

```

,OE23 2 ???

```

```

,OE24 2 ???

```

PRIMM

alle Register retten

Adresse von Stack erhöhen

Adresse in Zeropage

Zeichen holen

ausgegeben LOOP

Register zurückholen

kleiner SCO, dann ausgeben

-SCO

als Zähler ablegen

nächstes Byte ausgeben

wiederholen...

Fehlerausw. Block holen (READ)

Fehlerausw. drucken

Bildschirmmaske

ausgel 11

PRIMM

"♦" = DISK ERROR

Cursor 0/9

Fehlerauswertung

Fehler

unkopieren

OE25	32	???
OE26	32	???
OE27	33	???
OE28	33	???
OE29	33	???
OE2A	33	???
OE2B	33	???
OE2C	33	???
OE2D	00	BRK
OE2E	20 54 0D	JSR #0D54
OE31	12	???
OE32	20 20 20	JSR #2020
OE35	20 20 31	JSR #3120
OE3B	32	???
OE39	33	???
OE3A	34	???
OE3B	35 36	AND #36,X
OE3D	37	???
OE3E	38	SEC
OE3F	39 30 31	AND #3130,Y
OE42	32	???
OE43	33	???
OE44	34	???
OE45	35 36	AND #36,X
OE47	37	???
OE48	38	SEC
OE49	39 30 31	AND #3130,Y
OE4C	32	???
OE4D	33	???
OE4E	34	???
OE4F	35 36	AND #36,X
OE51	37	???
OE52	38	SEC
OE53	39 30 31	AND #3130,Y
OE56	32	???
OE57	33	???
OE58	34	???
OE59	35 00	AND #00,X
OE5B	0D CD	LDY #00
OE5D	A2 0D	LDX #00B
OE5F	18	CLC
OE61	20 F0 FF	JSR #FFFF0
OE63	20 54 0D	JSR #0D54
OE66	9A	TXS
OE67	12	???
OE68	52	???
OE69	45 41	EOR #41
OE6B	44	???
OE6C	20 12 20	JSR #2012
OE6F	20 20 20	JSR #2020
OE72	20 20 20	JSR #2020
OE75	20 20 20	JSR #2020
OE78	20 20 20	JSR #2020
OE7B	20 20 20	JSR #2020
OE7E	20 20 20	JSR #2020
OE81	20 20 20	JSR #2020
OE84	20 20 20	JSR #2020
OE87	20 20 20	JSR #2020
OE8A	20 20 20	JSR #2020
OE8D	20 20 20	JSR #2020
OE90	20 9E 12	JSR #129E

OE93	57	???
OE94	52	???
OE95	49 54	EOR #54
OE97	45 12	EOR #12
OE99	20 20 20	JSR #2020
OE9C	20 20 20	JSR #2020
OE9F	20 20 20	JSR #2020
OEAA	20 20 20	JSR #2020
OEAB	20 20 20	JSR #2020
OEAD	20 20 20	JSR #2020
OEAE	20 20 20	JSR #2020
OEAF	20 20 20	JSR #2020
OEBA	20 20 92	JSR #9220
OEBD	00	BRK
OEBE	60	RTS
OEBF	20 54 0D	JSR #0D54
OEC2	93	???
OEC3	20 00 20	JSR #2000
OEC6	54	???
OEC7	0D 9A 20	ORA #209A
OECA	00	BRK
OECB	A0 0C	LDY #0C
OECD	A2 02	LDX #02
OECF	18	CLC
OED0	20 F0 FF	JSR #FFFF0
OED3	20 54 0D	JSR #0D54
OED6	20 20 20	JSR #2020
OED9	20 20 20	JSR #2020
OEDC	20 20 20	JSR #2020
OEDF	20 20 20	JSR #2020
OEED	20 20 20	JSR #2020
OEES	20 20 00	JSR #0020
OEED	A0 02	LDY #02
OEED	A2 04	LDX #04
OEEC	18	CLC
OEE0	20 F0 FF	JSR #FFFF0
OEE3	20 54 0D	JSR #0D54
OEE6	20 53 20	JSR #2053
OEE9	57	???
OEE7	20 41 20	JSR #2041
OEEA	50 20	BVC #0F1C
OEEC	50 20	BVC #0F1E
OEEF	45 20	EOR #20
OF00	52	???
OF01	20 53 20	JSR #2053
OF04	20 20 42	JSR #4220
OF07	20 45 20	JSR #2045
OF0A	53	???
OF0B	20 54 20	JSR #2054
OF0E	21 21	AND (#21,X)
OF10	21 21	AND (#21,X)
OF12	21 21	AND (#21,X)
OF14	21 21	AND (#21,X)
OF16	21 00	AND (#00,X)
OF1B	A0 0C	LDY #0C
OF1A	A2 06	LDX #06
OF1C	18	CLC
OF1D	20 F0 FF	JSR #FFFF0

WRITE

Fehlerauswertung drucker

Cursor setzen
PRIMM

READ

```

,0F20 20 54 0D JSR $0D54
,0F23 44 ???
,0F24 4F ???
,0F25 4D 49 58 EOR $5849
,0F28 2F ???
,0F29 43 ???
,0F2A 4C 49 20 JMP $2049
,0F2D 46 49 LSR $49
,0F2F 5B CLI
,0F30 45 44 EOR $44
,0F32 21 00 AND ($00,X)
,0F34 A0 19 LDY #$19
,0F36 B9 86 0F LDA $0FB6,Y
,0F39 99 D9 00 STA $00D9,Y
,0F3C 88 DEY
,0F3D 10 F7 BFL $0F36
,0F3F 60 RTS
,0F40 A0 08 LDY #$08
,0F42 A2 17 LDX #$17
,0F44 18 CLC
,0F45 20 F0 FF JSR $FFFO
,0F48 20 54 0D JSR $0D54
,0F4B 9A TXS
,0F4D 46 31 LSR $31
,0F4E 2F ???
,0F4F 46 33 LSR $33
,0F51 3A ???
,0F52 20 53 2F JSR $2F53
,0F55 44 ???
,0F56 20 44 49 JSR $4944
,0F59 52 ???
,0F5A 45 43 EOR $43
,0F5C 54 ???
,0F5D 4F ???
,0F5E 52 ???
,0F5F 59 00 A0 EOR $A000,Y
,0F62 08 PHP
,0F63 A2 18 LDX #$18
,0F65 18 CLC
,0F66 20 F0 FF JSR $FFFO
,0F69 20 54 0D JSR $0D54
,0F6C 20 20 20 JSR $2020
,0F6F 20 20 20 JSR $2020
,0F72 20 20 20 JSR $2020
,0F75 20 20 20 JSR $2020
,0F78 20 20 20 JSR $2020
,0F7B 20 20 20 JSR $2020
,0F7E 20 20 20 JSR $2020
,0F81 20 20 20 JSR $2020
,0F84 00 BRK
,0F85 60 RTS
,0F86 84 84 STY $84
,0F88 84 84 STY $84
,0F8A 84 84 STY $84
,0F8C 84 85 STY $85
,0F8E 85 85 STA $85
,0F90 85 85 STA $85
,0F92 85 86 STA $86
,0F94 86 86 STX $86
,0F96 86 86 STX $86
,0F98 86 86 STX $86
,0F9A 87 ???

```

```

,0F9B 87 ???
,0F9C 87 ???
,0F9D 87 ???
,0F9E 87 ???
,0F9F 87 ???
,0FA0 A9 00 LDA #$00
,0FA2 8D 91 02 STA $0291
,0FA5 20 20 12 JSR $1220
,0FAB A9 49 LDA #$49
,0FAA 20 A8 FF JSR $FFA8
,0FAD 20 AE FF JSR $FFAE
,0FB0 A9 01 LDA #$01
,0FB2 A2 84 LDX #$84
,0FB4 A0 09 LDY #$09
,0FB6 20 BD FE JSR $FFBD
,0FB9 A6 BA LDX $BA
,0FBB A0 60 LDY #$60
,0FBD 20 BA FF JSR $FFBA
,0FC0 20 D5 F3 JSR $F3D5
,0FC3 A5 BA LDA $BA
,0FC5 20 B4 FF JSR $FFB4
,0FCB A5 B9 LDA $B9
,0FCA 20 96 FF JSR $FF96
,0FCD A9 00 LDA #$00
,0FCE B5 90 STA $90
,0FD1 A0 03 LDY #$03
,0FD3 84 FB STY $FB
,0FD5 20 A5 FF JSR $FFA5
,0FD8 85 FC STA $FC
,0FDA A4 90 LDY $90
,0FDC D0 44 BNE $1022
,0FDE 20 A5 FF JSR $FFA5
,0FE1 A4 90 LDY $90
,0FE3 D0 3D BNE $1022
,0FE5 A4 FB LDY $FB
,0FE7 88 DEY
,0FEB D0 E9 BNE $0FD3
,0FEA A6 FC LDX $FC
,0FEC 20 CD BD JSR $BD CD
,0FEF A9 20 LDA #$20
,0FF1 20 D2 FF JSR $FFD2
,0FF4 20 A5 FF JSR $FFA5
,0FF7 A6 90 LDX $90
,0FF9 D0 27 BNE $1022
,0FFB AA TAX
,0FFC F0 06 BEQ $1004
,0FFE 20 D2 FF JSR $FFD2
,1001 4C F4 0F JMP $0FF4
,1004 A9 0D LDA #$0D
,1006 20 D2 FF JSR $FFD2
,1009 A0 07 LDY #$07
,100B A9 20 LDA #$20
,100D 20 D2 FF JSR $FFD2
,1010 88 DEY
,1011 D0 FB BNE $100B
,1013 A5 C6 LDA $C6
,1015 D0 0B BNE $1022
,1017 AD BD 02 LDA $02BD
,101A D9 01 CMP #$01
,101C F0 F9 BEQ $1017
,101E A0 02 LDY #$02

```

```

1020 D0 B1 BNE #0FD3
1022 A9 00 LDA #00
1024 85 C6 STA #C6
1026 20 42 F6 JSR #F642
1028 20 54 0D JSR #0D54
102C 0D 0D 20 ORA #200D
102F 20 20 20 JSR #2020
1032 20 20 20 JSR #2020
1035 20 50 52 JSR #5250
1038 45 53 EOR #53
103A 53 ???
103B 20 41 4E JSR #4E41
103E 59 20 4B EOR #4B20,Y
1041 45 59 EOR #59
1043 20 54 4F JSR #4F54
1046 20 43 4F JSR #4F43
1049 4E 54 49 LSR #4954
104C 4E 55 45 LSR #4555
104F 00 BRK
1050 20 E4 FF JSR #FFE4
1053 F0 FB BEQ #1050
1055 A9 80 LDA #80
1058 BD 91 02 STA #0291
105A 60 RTS

```

```

105B JSR v. 1080B STA #FE Tracks lesen
105D 84 FD STY #FD Blockzahl ablegen
105F A9 05 LDA #05 Blockzahl ablegen
1061 20 D2 FF JSR #FFD2 } weiß!
1064 A5 FD LDA #FD } Blockzahl
1066 85 FF STA #FF }
1068 A0 1D LDY #1D } Cursor
106A A2 0E LDX #0E } setzen
106C 18 CLC
106D 20 F0 FF JSR #FFF0
1070 78 SEI
1071 E6 03 INC #03
1073 20 03 11 JSR #1103 (blinken)
1076 20 CE 1D JSR #1DCE Block laden
1079 E6 FD INC #FD Speicher-Ziel-High erhöhen
107B C6 FF DEC #FF schon alle Blöcke?
107D D0 F4 BNE #1073 LOOP
1080 A9 05 LDA #05 grün
1082 20 F9 10 JSR #10F9 Track färben
1084 EE 17 11 INC #1117 Track erhöhen
1087 C6 FE DEC #FE schon alle Tracks?
1089 D0 D9 BNE #1064 nein
108B 60 RTS

```

```

108C JSR v. 1082C STA #FE Trackzahl
108E 84 FD STY #FD Blockzahl
1090 A9 05 LDA #05 } weiß
1092 20 D2 FF JSR #FFD2 } Blockzahl kopieren
1095 A5 FD LDA #FD }
1097 85 FF STA #FF }
1099 A0 1D LDY #1D } Cursor
109B A2 0E LDX #0E }
109D 18 CLC
109E 20 F0 FF JSR #FFF0
10A1 78 SEI
10A2 E6 03 INC #03
10A4 20 03 11 JSR #1103 Tracks erhöhen
10A7 20 E4 10 JSR #10E4 Track blinken
10AA E6 FD INC #FD Block übertragen

```

```

10AC C6 FF DEC #FF schon alle Dekkoren?
10AE D0 F4 BNE #10A4 nein
10B0 A9 02 LDA #02 rot
10B2 20 F9 10 JSR #10F9 Trackmarkier. setzen
10B5 EE 17 11 INC #1117 Tracks erhöhen
10B8 C6 FE DEC #FE schon alle Tracks
10BA D0 D9 BNE #1095 nein
10BC 60 RTS

```

```

10BD JSR v. 10ADE STY #FB
10BF 84 FC STX #FC
10C1 A0 00 LDY #00
10C3 B1 FB LDA ($FB),Y } in Buffer
10C5 99 00 18 STA #1800,Y } unkopieren
10C8 C8 INY }
10C9 D0 FB BNE #10C3 }
10CB 4C 18 11 JMP #1118 übertragen Block
10CE JSR v. 10762 JSR #123B Block v. Floppy holen

```

```

10D1 A0 00 LDY #00
10D3 84 FB STY #FB
10D5 84 01 STY #01
10D7 B9 00 18 LDA #1800,Y } unkopieren
10DA 91 FB STA ($FB),Y }
10DC CB INY }
10DD D0 FB BNE #10D7 }
10DF A9 37 LDA #37 ROM ein
10E1 85 01 STA #01
10E3 60 RTS

```

```

10E4 JSR v. 10A7 LDY #00
10E6 84 FB STY #FB
10E8 84 01 STY #01
10EA B1 FB LDA ($FB),Y } Block
10EC 99 00 18 STA #1800,Y } kopieren
10EF C8 INY }
10F0 D0 FB BNE #10EA }
10F2 A9 37 LDA #37 } ROM an
10F4 85 01 STA #01 }
10F6 4C 18 11 JMP #1118 übertragen

```

```

10F9 JSR v. 1081 LDX #1117 Track n.
10FB 9D 8C 29 STA #D98C,X } Farbe setzen
10FD 9D 94 D9 STA #D994,X }
1102 60 RTS
1103 JSR v. 1075 LDX #1117
1106 BD 8C D9 LDA #D98C,X }
1109 49 03 EOR #03 }
110B 9D 8C D9 STA #D98C,X } Farbe ändern
110E BD 94 D9 LDA #D994,X }
1111 49 03 EOR #03 }
1113 9D 94 D9 STA #D994,X }
1116 60 RTS

```

```

1117 60 RTS
1118 JSR v. 10F0 LDY #00
111A 2C 10C8 BIT #DD00 auf Floppy
111D 50 FB BVC #111A warten
111F B9 00 18 LDA #1800,Y Byte holen
1122 A0 00 LDY #00
1123 29 0F AND #0F
1125 BD 4D 11 STA #114D merken
1128 BA TXA
1129 4A LSR
112A 4A LSR
112B 4A LSR

```

1120 4A LSR
 112D AA TAX
 112E 3B SEC
 112F AD 12 DO LDA #D012
 1132 E9 32 SBC #32
 1134 90 04 BCC #113A
 1136 29 07 AND #07
 1138 F0 F5 BEQ #112F
 113A A9 07 LDA #07
 113C 8D 00 DD STA #DD00
 113F BD 6F 11 LDA #116F,X
 1142 8D 00 DD STA #DD00
 1145 4A LSR
 1146 4A LSR
 1147 29 F3 AND #F3
 1149 8D 00 DD STA #DD00
 114C A2 00 LDX #00
 114E BD 6F 11 LDA #116F,X
 1151 8D 00 DD STA #DD00
 1154 4A LSR
 1155 4A LSR
 1156 29 F3 AND #F3
 1158 8D 00 DD STA #DD00
 115B A9 23 LDA #23
 115D EA NOP
 115E C8 INY
 115F 8D 00 DD STA #DD00
 1162 D0 BB BNE #111F
 1164 60 RTS
 1165 AD 12 DO LDA #D012
 1168 D9 0A CMP #0A
 116A B0 F9 BCS #1165
 116C 4C 1F 11 JMP #111F
 116F 07 ???
 1170 87 ???
 1171 27 ???
 1172 A7 ???
 1173 47 ???
 1174 C7 ???
 1175 67 ???
 1176 E7 ???
 1177 17 ???
 1178 97 ???
 1179 37 ???
 117A B7 ???
 117B 57 ???
 117C D7 ???
 117D 77 ???
 117E F7 ???
 117F 3F ???
 1180 3A ???
 1181 2A ROL
 1182 78 SEI
 1183 A9 37 LDA #37
 1185 85 01 STA #01
 1187 A2 FD LDX #FD
 1189 9A TXS
 118A 58 CLI
 118B A9 00 LDA #00
 118D 8D 20 DO STA #D020
 1190 8D 21 DO STA #D021
 1193 8D 15 DO STA #D015

VIC-Tuning

senden

senden

senden

senden

senden

1196 20 90 FF JSR #FE90
 1199 20 76 12 JSR #1276
 119C A0 09 LDY #09
 119E A2 0C LDX #0C
 11A0 18 CLC
 11A1 20 F0 FF JSR #FFFF0
 11A4 20 54 0D JSR #0D54
 11A7 05 20 ORA #20
 11A9 20 20 20 JSR #2020
 11AC 20 20 20 JSR #2020
 11AF 9A TXS
 11B0 20 20 20 JSR #2020
 11B3 20 20 20 JSR #2020
 11B6 20 20 20 JSR #2020
 11B9 20 20 20 JSR #2020
 11BC 20 20 20 JSR #2020
 11BF 00 BRK
 11C0 A0 08 LDY #08
 11C2 A2 0E LDX #0E
 11C4 18 CLC
 11C5 20 F0 FF JSR #FFFF0
 11C8 20 54 0D JSR #0D54
 11CB 05 48 ORA #48
 11CD 49 54 EOR #54
 11CF 20 53 50 JSR #5053
 11D2 41 43 EOR (#43,X)
 11D4 45 20 EOR #20
 11D6 54 ???
 11D7 4F ???
 11D8 20 43 4F JSR #4F43
 11DB 4E 54 49 LSR #4954
 11DE 4E 55 45 LSR #4555
 11E1 2E 2E 2E ROL #2E2E
 11E4 00 BRK
 11E5 4C 0D 08 JMP #0B0D
 11E8 C9 20 CMP #20
 11EA D0 F9 BNE #11E5
 11EC A7 00 LDA #00
 11EE 8D 20 DO STA #D020
 11F1 8D 21 DO STA #D021
 11F4 20 76 12 JSR #1276
 11F7 20 20 12 JSR #1220
 11FA A9 49 LDA #49
 11FC 20 AB FF JSR #FFAB
 11FF 20 AE FF JSR #FFAE
 1202 A9 05 LDA #05
 1204 AB TAY
 1205 A8 4C LDX #4C
 1207 86 BA STX #BA
 1209 20 BA FF JSR #FFBA
 120C A9 03 LDA #03
 120E A2 7F LDX #7F
 1210 A0 11 LDY #11
 1212 20 BD FF JSR #FFBD
 1215 A9 00 LDA #00
 1217 20 D5 FF JSR #FFD5
 121A 20 E7 FF JSR #FFE7
 121D 60 00 03 JMP (#0300)
 1220 8D 20 DO STA #D020
 1222 85 0A AB STA #90
 1224 A7 0E 0E LDA #BA

Status löschen

LISTEN

1226 20 B1 FF JSR \$FFB1	LISTEN	Vorbereitung für Befehl senden	12A0 78	SEI
1229 A9 6F LDA #16F			12A1 A0 23	LDY #123
122B 20 93 FF JSR \$FF93	SECLST		12A3 8C 00 DD	STY \$DD00
122E A5 90 LDA #90	Fehler?		12A6 CB	INY
1230 D0 01 BNE #1233	ja		12A7 D0 FD	BNE #12A6
1232 60 RTS			12A9 60	RTS
1233 68 PLA	Rückspringad. weg		12AA H 2D E	EOR #452D
1234 68 PLA			12AD 00 7#1287	BRK
1235 4C 25 08 JMP \$0825	Neustart	Block von Floppy holen	12AE 00	BRK
1238 JSR v. 10CE			12AF 20 76 12	JSR #1276
123A 2C 00 00 BIT \$DD00	ODG1		12B2 A0 03	LDY #103
123D 50 FE 00 BVC #123A	ODAB	auf Floppy warten	12B4 A2 0A	LDX #10A
123F 38 SEC			12B6 18	CLC
1240 AD 12 D0 LDA #D012		VIC-Timing	12B7 20 F0 FF	JSR \$FFFF0
1243 E9 32 SBC #132			12BA 20 54 0B	JSR #0D54
1245 90 01 BCC #124B			12BD 1C	???
1247 29 07 AND #07			12BE 54	???
1249 F0 F5 BEQ #1240			12BF 55 52	EOR #52,X
124B A7 03 LDA #03		OK zum Senden	12C1 4E 20 4F	LSR #4F20
124D BD 00 DD STA \$DD00			12C4 46 46	LSR #46
1250 0A ASL			12C6 20 42 4F	JSR #4F42
1251 0A ASL			12C9 54	???
1253 0A ASL			12CA 48	PHA
1254 0A ASL			12CB 20 44 52	JSR #5244
1255 0A ASL			12CE 49 56	EOR #56
1256 4D 00 DD EOR \$DD00	holen		12D0 45 53	EOR #53
1259 4A LSR			12D2 2C 20 54	BIT #5420
125A 4A LSR			12D5 48	PHA
125B EA NOP			12D6 45 4E	EOR #4E
125C 4D 00 DD EOR \$DD00	holen		12D8 20 54 55	JSR #5554
125F 4A LSR			12DB 52	???
1260 4A LSR			12DC 4E 20 4F	LSR #4F20
1261 EA NOP			12DF 4E 00 A0	LSR #A000
1262 4D 00 DD EOR \$DD00	holen		12E2 05 A2	ORA #A2
1265 4A LSR			12E4 0C	???
1266 4A LSR			12E5 18	CLC
1267 A2 23 LDX #123			12E6 20 F0 FF	JSR \$FFFF0
1269 4D 00 DD EOR \$DD00	holen		12E9 20 54 0D	JSR #0D54
126C BE 00 DD STX \$DD00			12EC 54	???
126F 99 00 18 STA #1800,Y	ablegen		12ED 41 52	EOR (#52,X)
127 CB INY			12EF 47	???
1275 D0 CA BNE #123F	256 Bytes		12F0 45 54	EOR #54
1276 60 RTS			12F2 20 44 52	JSR #5244
1278 JSR v. 0A74			12F5 49 56	EOR #56
127B 4C D2 FF JMP \$FFD2	Bildschirm löschen		12F7 45 20	EOR #20
127D 20 E4 FF JSR \$FFE4	Taste merken auf Taste warten		12F9 41 4E	EOR (#4E,X)
1280 C5 4B CMP #4B	Taste holen vergl.		12FB 44	???
1282 D0 F9 BNE #127D	nicht gleich		12FC 20 50 52	JSR #5250
1284 60 RTS			12FF 45 53	EOR #53
1285 JSR v. 0A01 JMP			1301 53	???
1287 JSR v. 0AD7	Geräteadresse ablegen		1302 20 52 45	JSR #4552
128A 8C AE 12 STY #12AE			1305 54	???
128D 20 20 12 JSR #1220	LISTEN		1306 55 52	EOR #52,X
1290 A0 00 LDY #00			1308 4E 00 A9	LSR #A900
1292 B9 AA 12 LDA #12AA	M-E		130B 0D 20 7B	ORA #7B20
1295 20 AB FF JSR \$FFAB	senden		130E 12	???
1298 CB INY			130F A9 08	LDA #08
1299 C0 05 CPY #05			1311 85 BA	STA #BA
129B 90 F5 BCC #1292			1313 A9 08	LDA #08
129D 20 AE FF JSR \$FFAE	UNLISTEN		1315 A2 6C	LDX #6C
			1317 A0 13	LDY #13

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.,1319 20 BD FF JSR $FFBD
.,131C A9 6F LDA #$6F
.,131E 85 B9 STA $B9
.,1320 20 D5 F3 JSR $F3D5
.,1323 20 76 12 JSR $1276
.,1326 A0 07 LDY #$07
.,1328 A2 0A LDX #$0A
.,132A 18 CLC
.,132B 20 F0 FF JSR $FFFF0
.,132E 20 54 0D JSR $0D54
.,1331 4E 4F 57 LSR $574F
.,1334 2C 20 54 BIT $5420
.,1337 55 52 EOR $52,X
.,1339 4E 20 4F LSR $4F20
.,133C 4E 20 53 LSR $5320
.,133F 4F ???
.,1340 55 52 EOR $52,X
.,1342 43 ???
.,1343 45 20 EOR $20
.,1345 44 ???
.,1346 52 ???
.,1347 49 56 EOR #$56
.,1349 45 00 EOR $00
.,134B A0 0C LDY #$0C
.,134D A2 0C LDX #$0C
.,134F 18 CLC
.,1350 20 F0 FF JSR $FFFF0
.,1353 20 54 0D JSR $0D54
.,1356 41 4E EOR ($4E,X)
.,1358 44 ???
.,1359 20 50 52 JSR $5250
.,135C 45 53 EOR $53
.,135E 53 ???
.,135F 20 52 45 JSR $4552
.,1362 54 ???
.,1363 55 52 EOR $52,X
.,1365 4E 00 A9 LSR $A900
.,1368 0D 4C 7B ORA $7B4C
.,136B 12 ???
.,136C 4D 2D 57 EOR $572D
.,136F 77 ???
.,1370 00 BRK
.,1371 02 ???
.,1372 29 49 AND #$49
.,1374 A2 3F LDX #$3F
.,1376 BD 99 13 LDA $1399,X
.,1379 9D 40 03 STA $0340,X
.,137C CA DEX
.,137D 10 F7 BPL $1376
.,137F A9 0D LDA #$0D
.,1381 8D F8 07 STA $07F8
.,1384 A9 06 LDA #$06
.,1386 8D 27 D0 STA $D027
.,1389 A9 4E LDA #$4E
.,138B 8D 00 D0 STA $D000
.,138E A9 00 LDA #$00
.,1390 8D 10 D0 STA $D010
.,1393 60 RTS
.,1394 00 BRK
.,1395 7C ???
.,1396 8C 9C AC STY $AC9C
.,1399 00 BRK

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.,139A 00 BRK
.,139B 00 BRK
.,139C FF ???
.,139D FF ???
.,139E FF ???
.,139F C0 3F CPY #$3F
.,13A1 FF ???
.,13A2 C0 3F CPY #$3F
.,13A4 FF ???
.,13A5 C0 3F CPY #$3F
.,13A7 FC ???
.,13A8 FF ???
.,13A9 FF ???
.,13AA FC ???
.,13AB FF ???
.,13AC FF ???
.,13AD FF ???
.,13AE FF ???
.,13AF C3 ???
.,13B0 FF ???
.,13B1 FF ???
.,13B2 81 FF STA ($FF,X)
.,13B4 FF ???
.,13B5 81 FF STA ($FF,X)
.,13B7 FF ???
.,13B8 C3 ???
.,13B9 3F ???
.,13BA FF ???
.,13BB FF ???
.,13BC FF ???
.,13BD FF ???
.,13BE E7 ???
.,13BF FF ???
.,13C0 FF ???
.,13C1 E7 ???
.,13C2 FF ???
.,13C3 FF ???
.,13C4 E7 ???
.,13C5 FF ???
.,13C6 FF ???
.,13C7 E7 ???
.,13C8 FF ???
.,13C9 FF ???
.,13CA E7 ???
.,13CB FF ???
.,13CC FF ???
.,13CD 7E FF 00 ROR $00FF,X
.,13D0 00 BRK
.,13D1 00 BRK
.,13D2 00 BRK
.,13D3 00 BRK
.,13D4 00 BRK
.,13D5 00 BRK
.,13D6 00 BRK
.,13D7 00 BRK
.,13D8 00 BRK
.,13D9 A2 18 LDX #$18
.,13DB A0 00 LDY #$00
.,13DD 8B DEY
.,13DE D0 FD BNE $13DD
.,13E0 CA DEX

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13E1 D0 FA BNE $13DD
13E3 60 RTS
13E4 7B SEI
13E5 A0 0B LDY #$0B
13E7 8C 00 18 STY $1800
13EA C8 INY
13EB D0 FD BNE $13EA
13ED 20 20 03 JSR $0320
13F0 EE 4A 03 INC $034A
13F3 20 20 03 JSR $0320
13F6 EE 4A 03 INC $034A
13F9 20 20 03 JSR $0320
13FC EE 4A 03 INC $034A
13FF 20 20 03 JSR $0320
1402 5B CLI
1403 60 RTS
1404 A9 7A LDA #$7A
1406 8D 02 18 STA $1802
1409 A0 00 LDY #$00
140B A9 01 LDA #$01
140D 8D 00 18 STA $1800
1410 2C 00 18 BIT $1800
1413 D0 FB BNE $1410
1415 24 80 BIT $80
1417 AD 00 18 LDA $1800
141A 0A ASL
141B EA NOP
141C EA NOP
141D 4D 00 18 EOR $1800
1420 0A ASL
1421 0A ASL
1422 0A ASL
1423 4D 00 18 EOR $1800
1426 0A ASL
1427 EA NOP
1428 EA NOP
1429 4D 00 18 EOR $1800
142C 99 00 04 STA $0400,Y
142F C8 INY
1430 D0 D9 BNE $140B
1432 A9 0B LDA #$0B
1435 8D 00 18 STA $1800
1437 60 RTS
1438 4C 4B EB JMP $EB4B
143B 4C 3C 04 JMP $043C
143E 4C 34 04 JMP $0434
1441 4C 53 06 JMP $0653
1444 4C 4B 06 JMP $064B
1447 7B SEI
1448 A9 0B LDA #$0B
144A 8D 00 18 STA $1800
144D AD 00 1C LDA $1C00
1450 09 0C ORA #$0C
1452 8D 00 1C STA $1C00
1455 A9 EE LDA #$EE
1457 8D 0C 1C STA $1C0C
145A A2 80 LDX #$80
145C A0 00 LDY #$00
145E 8B DEY
145F D0 FD BNE $145E
1461 CA DEX
1462 D0 FA BNE $145E

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1464 60 RTS
1465 AD 00 1C LDA $1C00
1468 29 F3 AND #$F3
146A BD 00 1C STA $1800
146D 5B CLI
146E 60 RTS
146F 20 0C 04 JSR $040C
1472 C6 10 DEC $10
1474 4C 8B 05 JMP $058B
1477 20 0C 04 JSR $040C
147A A9 03 LDA #$03
147C 85 10 STA $10
147E 85 31 STA $31
1480 4C 8B 05 JMP $058B
1483 A9 7A LDA #$7A
1485 8D 02 18 STA $1802
1488 A0 00 LDY #$00
148A A9 01 LDA #$01
148C 8D 00 18 STA $1800
148F 2C 00 18 BIT $1800
1492 D0 FB BNE $149F
1494 24 80 BIT $80
1496 AD 00 18 LDA $1800
1499 0A ASL
149A EA NOP
149B EA NOP
149C 4D 00 18 EOR $1800
149F 0A ASL
14A0 0A ASL
14A1 0A ASL
14A2 4D 00 18 EOR $1800
14A5 0A ASL
14A6 EA NOP
14A7 EA NOP
14A8 4D 00 18 EOR $1800
14AB 99 00 03 STA $0300,Y
14AE C8 INY
14AF D0 D9 BNE $14AB
14B1 A9 0B LDA #$0B
14B3 8D 00 18 STA $1800
14B6 60 RTS
14B7 A0 00 LDY #$00
14B9 A2 00 LDX #$00
14BB B9 00 03 LDA $0300,Y
14BE 4A LSR
14BF 4A LSR
14C0 4A LSR
14C1 4A LSR
14C2 8D A2 04 STA $04A2
14C5 B9 00 03 LDA $0300,Y
14C8 29 0F AND #$0F
14CA 8E 00 18 STX $1800
14CD AA TAX
14CE BD BE 04 LDA $04BE,X
14D1 AE 00 18 LDX $1800
14D4 D0 FB BNE $14D1
14D6 8D 00 18 STA $1800
14D9 0A ASL
14DA 29 0F AND #$0F
14DC A2 00 LDX #$00
14DE 8D 00 18 STA $1800

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READ 40084

Motor an

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,14E1 BD BE 04 LDA $04BE,X
,14E4 A2 00 LDX #$00
,14E6 BD 00 18 STA $1800
,14E9 0A ASL
,14EA 29 0F AND #$0F
,14EC CB INY
,14ED BD 00 18 STA $1800
,14F0 D0 C9 BNE $14BB
,14F2 EA NOP
,14F3 A9 08 LDA #$08
,14F5 BD 00 18 STA $1800
,14F8 60 RTS
,14F9 0F ???
,14FA 07 ???
,14FB 0D 05 0B ORA $0B05
,14FE 03 ???
,14FF 09 01 ORA #$01
,1501 0E 06 0C ASL $0C06
,1504 04 ???
,1505 0A ASL
,1506 02 ???
,1507 08 PHP
,1508 00 BRK
,1509 A9 FF LDA #$FF
,150B A6 22 LDX $22
,150D E4 21 CPX $21
,150F F0 30 BEQ $1541
,1511 B0 02 BCS $1515
,1513 A9 01 LDA #$01
,1515 B5 C9 STA $C9
,1517 18 CLC
,1518 65 22 ADC $22
,151A B5 22 STA $22
,151C A2 02 LDX #$02
,151E 18 CLC
,151F AD 00 1C LDA $1C00
,1522 65 C9 ADC $C9
,1524 29 03 AND #$03
,1526 B5 C8 STA $C8
,1528 AD 00 1C LDA $1C00
,152B 29 FC AND #$FC
,152D 05 C8 ORA $C8
,152F BD 00 1C STA $1C00
,1532 A9 A5 LDA #$A5
,1534 BD 05 18 STA $1805
,1537 2C 05 18 BIT $1805
,153A 30 FB BMI $1537
,153C CA DEX
,153D D0 DF BNE $151E
,153F F0 C8 BEQ $1507
,1541 A5 22 LDA $22
,1543 20 4B F2 JSR $F24B
,1546 B5 20 STA $20
,1548 B5 B9 STA $B9
,154A AD 00 1C LDA $1C00
,154D 29 9F AND #$9F
,154F 1D 1B 05 ORA $051B,X
,1552 BD 00 1C STA $1C00
,1555 60 RTS
,1556 00 BRK
,1557 20 40 60 JSR $6040
,155A AD 0C 1C LDA $1C0C

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,155D 29 1F AND #$1F
,155F 09 C0 ORA #$C0
,1561 BD 0C 1C STA $1C0C
,1564 A9 FF LDA #$FF
,1566 BD 03 1C STA $1C03
,1569 BD 01 1C STA $1C01
,156C 60 RTS
,156D A9 D0 LDA #$D0
,156F BD 05 18 STA $1805
,1572 2C 05 18 BIT $1805
,1575 10 1A BPL $1591
,1577 2C 00 1C BIT $1C00
,157A 30 F6 BMI $1572
,157C A9 D0 LDA #$D0
,157E BD 05 18 STA $1805
,1581 2C 05 18 BIT $1805
,1584 10 0B BPL $1591
,1586 2C 00 1C BIT $1C00
,1589 10 F6 BPL $1581
,158B AD 01 1C LDA $1C01
,158E B9 CLV
,158F 18 CLC
,1590 60 RTS
,1591 3B SEC
,1592 60 RTS
,1593 A9 30 LDA #$30
,1595 B5 C9 STA $C9
,1597 A5 16 LDA $16
,1599 45 17 EOR $17
,159B 45 18 EOR $18
,159D 45 19 EOR $19
,159F B5 1A STA $1A
,15A1 20 34 F9 JSR $F934
,15A4 20 32 05 JSR $0532
,15A7 B0 14 BCS $15BD
,15A9 A0 00 LDY #$00
,15AB 50 FE BVC $15AB
,15AD B8 CLV
,15AE B9 24 00 LDA $0024,Y
,15B1 CD 01 1C CMP $1C01
,15B4 D0 07 BNE $15BD
,15B6 C8 INY
,15B7 C0 0B CPY #$0B
,15B9 D0 F0 BNE $15AB
,15BB 18 CLC
,15BC 60 RTS
,15BD C6 C9 DEC $C9
,15BF D0 E3 BNE $15A4
,15C1 3B SEC
,15C2 60 RTS
,15C3 A6 10 LDX $10
,15C5 20 BD 07 JSR $07BD
,15C8 20 CE 04 JSR $04CE
,15CB A6 BB LDX $BB
,15CD A9 00 LDA #$00
,15CF 9D 00 02 STA $0200,X
,15D2 B5 B8 STA $B8
,15D4 A5 22 LDA $22
,15D6 B5 18 STA $18
,15D8 A9 00 LDA #$00
,15DA B5 19 STA $19

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,15DC A9 02 LDA #$02
,15DE B5 C4 STA $C4
,15E0 20 58 05 JSR $0558
,15E3 B0 31 BCS $1616
,15E5 20 32 05 JSR $0532
,15E8 B0 2C BCS $1616
,15EA A0 00 LDY #$00
,15EC 50 FE BVC $15EC
,15EE B8 CLV
,15EF AD 01 1C LDA $1E01
,15F2 99 00 03 STA $0300,Y
,15F5 C8 INY
,15F6 D0 F4 BNE $15EC
,15F8 A0 BA LDY #$BA
,15FA 50 FE BVC $15FA
,15FC B8 CLV
,15FD AD 01 1C LDA $1E01
,1600 99 00 01 STA $0100,Y
,1603 C8 INY
,1604 D0 F4 BNE $15FA
,1606 20 E0 F8 JSR $FBEO
,1609 A5 38 LDA $38
,160B C9 07 CMP #$07
,160D D0 07 BNE $1616
,160F 20 E9 F5 JSR $F5E9
,1612 C5 3A CMP $3A
,1614 F0 0B BEQ $1621
,1616 C6 C4 DEC $C4
,1618 D0 C6 BNE $15E0
,161A A6 BB LDX $BB
,161C A5 22 LDA $22
,161E 9D 00 02 STA $0200,X
,1621 20 7C 04 JSR $047C
,1624 C6 B9 DEC $B9
,1626 F0 46 BEQ $166E
,1628 A6 B8 LDX $B8
,162A A5 22 LDA $22
,162C C9 19 CMP #$19
,162E B0 12 BCS $1642
,1630 BD 0D 06 LDA $060D,X
,1633 C5 20 CMP $20
,1635 90 04 BEC $163E
,1637 E6 B8 INC $B8
,1639 D0 ED BNE $1628
,163B B5 19 STA $19
,163D E6 B8 INC $B8
,163F 4C A1 05 JMP $05A1
,1642 BD 21 06 LDA $0621,X
,1645 4C FB 05 JMP $05FB
,1648 07 ???
,1649 0E 01 08 ASL $0801
,164C 0F ???
,164D 02 ???
,164E 09 10 ORA #$10
,1650 03 ???
,1651 0A ASL
,1652 11 04 ORA ($04),Y
,1654 0B ???
,1655 12 ???
,1656 05 0C ORA $0C
,1658 13 ???
,1659 06 0D ASL $0D

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,165B 14 ???
,165C 06 0C ASL $0C
,165E 12 ???
,165F 01 07 ORA ($07,X)
,1661 0D 02 08 ORA $0802
,1664 0E 03 09 ASL $0903
,1667 0F ???
,1668 04 ???
,1669 0A ASL
,166A 10 05 BPL $1671
,166C 0B ???
,166D 11 A6 ORA ($A6),Y
,166F BB ???
,1670 BD 00 02 LDA $0200,X
,1673 F0 02 BEQ $1677
,1675 E6 BB INC $BB
,1677 E6 21 INC $21
,1679 C6 BD DEC $BD
,167B F0 03 BEQ $1680
,167D 4C BD 05 JMP $05BD
,1680 20 AC 07 JSR $07AC
,1683 4C 2A 04 JMP $042A
,1686 20 0C 04 JSR $040C
,1689 C6 11 DEC $11
,168B 4C 72 06 JMP $0672
,168E A9 08 LDA $A9
,1690 BD 00 18 STA $1800
,1693 A5 22 LDA $22
,1695 D0 0D BNE $16A4
,1697 A9 C0 LDA $A9
,1699 B5 00 STA $00
,169B 58 CLI
,169C A5 00 LDA $00
,169E 30 FC BMI $169C
,16A0 24 20 BIT $20
,16A2 70 FC BVS $16A0
,16A4 20 0C 04 JSR $040C
,16A7 A9 03 LDA $A9
,16A9 B5 11 STA $11
,16AB B5 31 STA $31
,16AD A6 11 LDX $11
,16AF 20 BD 07 JSR $07BD
,16B2 AD 00 1C LDA $1C00
,16B5 29 F7 AND $F7
,16B7 BD 00 1C STA $1C00
,16BA 20 CE 04 JSR $04CE
,16BD A5 22 LDA $22
,16BF B5 18 STA $18
,16C1 A9 00 LDA $A9
,16C3 B5 19 STA $19
,16C5 B5 B8 STA $B8
,16C7 20 48 04 JSR $0448
,16CA AD 00 1C LDA $1C00
,16CD 09 08 ORA $08
,16CF BD 00 1C STA $1C00
,16D2 20 E9 F5 JSR $F5E9
,16D5 B5 3A STA $3A
,16D7 20 8F F7 JSR $F78F
,16DA 20 1F 05 JSR $051F
,16DD A0 03 LDY $03
,16DF A9 55 LDA $A5

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WRITE 40653

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.,16E1 8D 01 1C STA $1C01
.,16E4 50 FE BVC $16E4
.,16E6 B8 CLV
.,16E7 E8 INX
.,16E8 D0 FA BNE $16E4
.,16EA 88 DEY
.,16EB D0 F2 BNE $16DF
.,16ED A5 B9 LDA $B9
.,16EF 85 C8 STA $C8
.,16F1 A5 16 LDA $16
.,16F3 45 17 EOR $17
.,16F5 45 18 EOR $18
.,16F7 45 19 EOR $19
.,16F9 85 1A STA $1A
.,16FB 20 34 F9 JSR $F934
.,16FE A2 05 LDX ##05
.,1700 A9 FF LDA ##FF
.,1702 8D 01 1C STA $1C01
.,1705 50 FE BVC $1705
.,1707 B8 CLV
.,1708 CA DEX
.,1709 D0 F7 BNE $1702
.,170B A0 00 LDY ##00
.,170D B9 24 00 LDA $0024,Y
.,1710 8D 01 1C STA $1E01
.,1713 50 FE BVC $1713
.,1715 B8 CLV
.,1716 C8 INY
.,1717 C0 08 CPY ##08
.,1719 D0 F2 BNE $170D
.,171B A2 45 LDX ##45
.,171D A0 02 LDY ##02
.,171F A9 55 LDA ##55
.,1721 8D 01 1C STA $1C01
.,1724 50 FE BVC $1724
.,1726 B8 CLV
.,1727 CA DEX
.,1728 D0 F5 BNE $171F
.,172A 88 DEY
.,172B D0 F2 BNE $171F
.,172D E6 19 INC $19
.,172F C6 C8 DEC $C8
.,1731 D0 BE BNE $16F1
.,1733 20 00 FE JSR $FE00
.,1736 A9 00 LDA $00
.,1738 85 19 STA $19
.,173A 20 58 05 JSR $0558
.,173D 90 0A BCC $1749
.,173F A6 BB LDX $BB
.,1741 A5 22 LDA $22
.,1743 9D 00 02 STA $0200,X
.,1746 4C 43 07 JMP $0743
.,1749 A2 09 LDX ##09
.,174B 50 FE BVC $174B
.,174D B8 CLV
.,174E CA DEX
.,174F D0 FA BNE $174B
.,1751 20 1F 05 JSR $051F
.,1754 A2 05 LDX ##05
.,1756 A9 FF LDA ##FF
.,1758 8D 01 1C STA $1C01
.,175B 50 FE BVC $175B

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.,175D B8 CLV
.,175E CA DEX
.,175F D0 F7 BNE $175B
.,1761 A0 BB LDY ##BB
.,1763 B9 00 01 LDA $0100,Y
.,1766 8D 01 1C STA $1C01
.,1769 50 FE BVC $1769
.,176B B8 CLV
.,176C C8 INY
.,176D D0 F4 BNE $1763
.,176F B9 00 03 LDA $0300,Y
.,1772 8D 01 1C STA $1C01
.,1775 50 FE BVC $1775
.,1777 B8 CLV
.,1778 C8 INY
.,1779 D0 F4 BNE $176F
.,177B 50 FE BVC $177B
.,177D B8 CLV
.,177E 20 00 FE JSR $FE00
.,1781 C6 B9 DEC $B9
.,1783 F0 2B BEQ $17B0
.,1785 A6 B8 LDX $B8
.,1787 A5 22 LDA $22
.,1789 C9 19 CMP ##19
.,178B B0 1D BCS $17AA
.,178D BD 0D 06 LDA $060D,X
.,1790 C5 20 CMP $20
.,1792 90 04 BCC $179B
.,1794 E6 B8 INC $B8
.,1796 D0 ED BNE $1785
.,1798 85 19 STA $19
.,179A E6 B8 INC $B8
.,179C 20 48 04 JSR $0448
.,179F 20 E9 F5 JSR $F5E9
.,17A2 85 3A STA $3A
.,17A4 20 BF F7 JSR $F7BF
.,17A7 4C FF 06 JMP $06FF
.,17AA BD 21 06 LDA $0621,X
.,17AD 4C 55 07 JMP $0755
.,17B0 A6 BB LDX $BB
.,17B2 BD 00 02 LDA $0200,X
.,17B5 F0 02 BEQ $17B9
.,17B7 E6 BB INC $BB
.,17B9 E6 21 INC $21
.,17BB C6 BC DEC $BC
.,17BD F0 03 BEQ $17C2
.,17BF 4C 7F 06 JMP $067F
.,17C2 20 AC 07 JSR $07AC
.,17C5 4C 2A 04 JMP $042A
.,17C8 BD A5 07 LDA $07A5,X
.,17CB 85 21 STA $21
.,17CD BD AB 07 LDA $07AB,X
.,17D0 85 BD STA $BD
.,17D2 85 BC STA $BC
.,17D4 AA TAX
.,17D5 E8 INX
.,17D6 A9 00 LDA ##00
.,17D8 9D 00 02 STA $0200,X
.,17DB CA DEX
.,17DC 10 FA BPL $17DB
.,17DE 85 BB STA $BB

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,17E0 60      RTS
,17E1 17      ???
,17E2 0C      ???
,17E3 01 0D   ORA ($0D,X)
,17E5 0B      ???
,17E6 0B      ???
,17E7 A0 00   LDY #$00
,17E9 B9 00 02 LDA $0200,Y
,17EC 99 00 03 STA $0300,Y
,17EF C8      INY
,17F0 D0 F7   BNE $17E9
,17F2 4C 7C 04 JMP $047C
,17F5 00      BRK
,17F6 00      BRK
,17F7 00      BRK
,17F8 00      BRK
,17F9 00      BRK
,17FA 00      BRK
,17FB 00      BRK
,17FC 00      BRK
,17FD 00      BRK
,17FE 00      BRK
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```

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:0800 00 00 00 3F DF 5F FF 7F 222?
:0808 BF 0F AF 0D 0B A5 BA 85 70 LMHI
:0810 4C 85 4D A9 0D 8D 18 03 LMMX
:0818 A9 08 8D 19 03 20 74 13 MHYC IS
:0820 A9 1B 8D 11 D0 A9 00 8D 71 Q
:0828 20 D0 A9 00 8D 21 D0 20 73
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:0848 D0 A9 01 85 02 5B A6 02 7ABX
:0850 8D 94 13 8D 01 D0 A9 92 71S
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:0868 05 A9 12 20 D2 FF 20 54 EPR T
:0870 0D 05 43 4F 50 59 20 44 MECOPY D
:0878 49 53 4B 20 20 20 20 20 20 ISK
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:0888 A0 0C A2 0C 18 20 F0 FF 7LX
:0890 A5 02 C9 02 D0 05 A9 12 71B
:0898 20 D2 FF 20 54 0D 53 4F 7TMSO
:08A0 55 52 43 45 20 20 20 20 URCE
:08A8 20 20 3A 20 30 00 A5 4C 70
:08B0 09 30 20 D2 FF A9 92 20 10 7
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:08C8 A9 12 20 D2 FF 20 54 0D 7R T
:08D0 44 45 53 54 49 4E 41 54 DESTINAT
:08D8 49 4F 4E 20 3A 20 30 00 ION : 0
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:08E8 92 20 D2 FF A0 0C A2 10 7LP
:08F0 18 20 F0 FF A5 02 C9 04 X 71B
:08F8 D0 05 A9 12 20 D2 FF 20 7EPR
:0900 54 0D 53 4F 46 54 57 49 TMSOFTW
:0908 52 45 20 44 52 49 56 45 RE DRIVE
:0910 53 20 00 A9 92 20 D2 FF S 7
:0918 20 E4 FF D0 14 A2 70 A0 7T
:0920 00 88 D0 FD CA D0 FA AD 7

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:092B 27 D0 49 01 8D 27 D0 D0 71IAN
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:0940 A5 4C D0 06 C9 86 D0 1C 71L
:0948 A5 4D 85 BA 20 76 12 A9 71M
:0950 00 8D 15 D0 8D 21 D0 20 71UT
:0958 54 0D 05 C7 20 00 20 A0 TMEI
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:0970 85 09 4D 18 09 E6 02 A5 71L
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:0980 02 4C 4E 08 24 C6 02 D0 71L
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:09AB 4D F0 07 A5 4D 85 4C 4C 71L
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:09D0 6E 0E 9D 99 0E CA 10 F7 71L
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:0A38 4B 20 4E 4F 54 20 57 52 K NOT WR
:0A40 49 54 45 2D 50 52 4F 54 ITE-PROT
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:0A60 45 20 28 59 2F 4E 29 3F E (Y/N)?
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:0B08 0B A0 15 20 5B 10 20 C1 K U IP

```

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0B18	03	BD	17	11	A9	19	85	FC	CWQFY	0D08	20	31	3A	20	57	52	49	54	1: WRIT	
0B20	A9	0B	A0	15	20	8C	10	20	PK U LP	0D10	49	4E	47	20	20	20	20	20	ING	
0B28	AB	0D	A9	0C	85	03	8D	17	MMFLC\W	0D18	20	20	20	20	20	20	00	A0	@	
0B30	11	78	A9	32	8D	AA	0C	20	QAF2\ L	0D20	11	A2	0E	18	20	F0	FF	A9	QNX	
0B38	03	0C	A9	19	85	FC	A9	06	SLFY	0D28	05	20	D2	FF	AD	AA	0C	20	E	
0B40	A0	15	20	5B	10	A9	05	A0	U LPFE	0D30	D2	FF	A5	4D	A0	04	A2	09	M D	
0B48	13	20	5B	10	20	C1	0D	18	S LP AMX	0D38	28	90	02	A2	06	4C	85	12	FLTR	
0B50	20	AB	0C	A9	0C	85	03	8D	HFLC\	0D40	58	60	48	AA	CA	BD	0A	0E	XH IJN	
0B58	17	11	A9	19	85	FC	A9	06	WQFY	0D48	20	D2	FF	68	AA	CA	BD	37	I I 7	
0B60	A0	15	20	8C	10	A9	05	A0	U LPFE	0D50	0E	4C	D2	FF	48	8A	48	98	NLTH H	
0B68	13	20	8C	10	20	AB	0D	A9	S LP MM	0D58	48	A0	00	BA	FE	04	01	D0	H @ DA7	
0B70	17	85	03	8D	17	11	78	A9	WTC\WQFY	0D60	03	FE	05	01	BD	04	01	85	C EA DA7	
0B78	33	8D	AA	0C	20	13	0C	A9	3\ L SLF	0D68	3B	BD	05	01	85	3C	B1	3B	EA < +;	
0B80	19	85	FC	A9	02	A0	13	20	YTB S	0D70	30	0D	F0	05	20	D2	FF	90	OM E	
0B88	5B	10	A9	06	A0	12	20	5B	LPFF R L	0D78	E2	68	AB	68	AA	68	60	C9	I I I	
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0BB0	10	A9	06	A0	12	20	8C	10	PFF R LP	0DA0	54	0D	E4	20	0D	1D	1D	E4	TM MJL	
0BB8	A9	05	A0	11	20	8C	10	20	FE Q LP	0DAB	20	00	60	20	38	12	A0	00	@ BR @	
0BC0	AB	0D	5B	A9	00	8D	20	D0	MMX	0DB0	A9	7A	BE	00	18	D0	03	4C	@ @ CL	
0BC8	A0	02	A2	0E	18	20	F0	FF	B NX	0DB8	5B	0E	CA	9D	99	0E	C8	D0	IN IN IN	
0BD0	20	54	0D	20	20	20	20	20	TM	0DC0	F1	20	38	12	A0	00	A9	7A	+ BR @	
0BDB	43	4F	50	59	20	43	4F	4D	COPY COM	0DC8	BE	00	18	D0	03	4C	5B	0E	@X CLIN	
0BE0	50	4C	45	54	45	3A	20	50	FLETE: P	0DD0	CA	9D	6E	0E	C8	D0	F1	60	IN IN	
0BE8	52	45	53	53	20	52	45	54	RESS RET	0DD8	20	BF	0E	A0	0B	A2	18	18	W KXX	
0BF0	55	52	4E	20	20	20	20	20	URN	0DE0	20	F0	FF	20	54	0D	05	22	TM TME	
0BF8	00	20	E4	FF	C9	0D	D0	F9	@	0DE8	7A	22	20	3D	20	44	49	53	@ = DIS	
0C00	60	4D	2D	57	00	04	01	00	M-WQDA@	0DF0	4B	20	45	52	52	4F	52	53	K ERRORS	
0C08	4D	2D	52	16	00	02	4D	2D	M-RV@BM-	0DF8	00	A0	00	A2	09	18	20	F0	@ @ IX	
0C10	52	00	1C	20	1F	0C	A5	4C	R@E HIL	0E00	FE	20	54	0D	12	54	52	41	TM TRTRA	
0C18	A2	03	A0	04	4C	85	12	A9	C DLTR	0E08	43	4B	20	20	20	20	20	20	CK	
0C20	0E	8D	20	D0	A5	4C	C5	4D	N TLM	0E10	20	20	20	31	31	31	31	31	11111	
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0C40	52	43	45	20	44	49	53	48	RCE DISK	0E30	0D	12	20	20	20	20	20	31	MR 1	
0C48	20	41	4E	44	20	50	52	45	AND PRE	0E38	32	33	34	35	36	37	38	39	23456789	
0C50	53	53	20	52	45	54	55	52	SS RETUR	0E40	30	31	32	33	34	35	36	37	01234567	
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0C60	5B	A9	0D	20	7B	12	A0	02	XPM IR B	0E50	36	37	38	39	30	31	32	33	67890123	
0C68	A2	0E	18	20	F0	FF	20	54	NX	0E58	34	35	00	A0	00	A2	0B	18	45@ @ KX	
0C70	0D	9A	20	20	20	20	20	20	M	0E60	20	F0	FF	20	54	0D	9A	12	TM R	
0C78	20	20	20	20	50	41	53	53	PASS	0E68	52	45	41	44	20	12	20	20	READ R	
0C80	20	31	3A	20	52	45	41	44	1: READ	0E70	20	20	20	20	20	20	20	20		
0C88	49	4E	47	20	20	20	20	20	ING	0E78	20	20	20	20	20	20	20	20		
0C90	20	20	20	20	20	20	20	00	A0	0E80	20	20	20	20	20	20	20	20		
0C98	11	A2	0E	18	20	F0	FF	A9	QNX	0E88	20	20	20	20	20	20	20	20		
0CA0	05	20	D2	FF	AD	AA	0C	4C	E	0E90	20	9E	12	57	52	49	54	45	WRITE	
0CAB	D2	FF	00	08	A9	07	8D	20	@HFG\	0E98	12	20	20	20	20	20	20	20	R	
0CBB	D0	A5	4C	C5	4D	D0	37	A0	T L MT7	0EAO	20	20	20	20	20	20	20	20		
0CC0	02	A2	0E	18	20	F0	FF	20	B NX	0EAB	20	20	20	20	20	20	20	20		
0CC8	54	0D	9E	49	4E	53	45	52	TM INSER	0EB0	20	20	20	20	20	20	20	20		
0CD0	54	20	42	41	43	4B	55	50	T BACKUP	0EB8	20	20	20	20	92	00	60	20	@	
0CDB	20	44	49	53	4B	20	41	4E	DISK AN	0EC0	54	0D	93	20	00	20	54	0D	TM @ TM	
0CDB	44	20	50	52	45	53	53	20	D PRESS	0EC8	9A	20	00	A0	0C	A2	02	18	@ @ L BX	
0CE0	52	45	54	55	52	4E	20	00	RETURN @	0ED0	20	F0	FF	20	54	0D	20	20	TM	
0CE8	58	A9	0D	20	7B	12	A0	02	XPM IR B	0ED8	20	20	20	20	20	20	20	20		
0CF0	A2	0E	18	20	F0	FF	20	54	NX	0EE0	20	20	20	20	20	20	20	00	@	
0CF8	0D	9E	20	20	20	20	20	20	M											

00EEB A0 02 A2 04 18 20 F0 FF B=DX HT
00EFO 20 54 0D 20 53 20 57 20 TM S W
00EFB 41 20 50 20 50 20 45 20 A P P E
00F00 52 20 53 20 20 20 42 20 R S B
00F0B 45 20 53 20 54 20 21 21 E S T !!
00F10 21 21 21 21 21 21 21 00 !!!!!!!
00F1B A0 0C A2 04 18 20 F0 FF L=FX HT
00F20 20 54 0D 44 4E 4D 49 5B TMDOMIX
00F2B 2F 43 4C 49 20 46 49 5B /CLI FIX
00F30 45 44 21 00 A0 19 B9 B6 ED!@ Y=
00F3B 0F 99 D9 00 B8 10 F7 60 D I @ I P T=
00F40 A0 08 A2 17 18 20 F0 FF H=WX HT
00F4B 20 54 0D 9A 46 31 2F 46 TM F1/F
00F50 33 3A 20 53 2F 44 20 44 3: SZD D
00F5B 49 52 45 43 54 4F 52 59 IRECTORY
00F60 00 A0 08 A2 18 18 20 F0 @ H=XX HT
00F6B FF 20 54 0D 20 20 20 20 20 TM
00F70 20 20 20 20 20 20 20 20
00F7B 20 20 20 20 20 20 20 20
00F80 20 20 20 20 00 60 84 84 @=
00F8B 84 84 84 84 84 85 85 85 @=
00F90 85 85 85 86 86 86 86 86 @=
00F9B 86 86 87 87 87 87 87 87 @=
00FA0 A9 00 BD 91 02 20 20 12 @=B R
00FAB A9 49 20 AB FF 20 AE FF @I @ HT
00FB0 A9 01 A2 84 A0 09 20 BD @A= I
00FBB FF A6 BA A0 60 20 BA FF @J = J HT
00FC0 20 D5 E3 A5 BA 20 B4 FF @I J I HT
00FCB A5 B9 20 96 FF A9 00 B5 I = X HT
00FD0 90 A0 03 84 FB 20 A5 FF @C = I HT
00FDB 85 FC A4 90 D0 44 20 A5 @=TD I
00FE0 FF A4 90 D0 3D A4 FB 88 @=TF = I
00FEB D0 E9 A6 FC 20 CD BD A9 @=X = J HT
00FEO 20 20 D2 FF 20 A5 FF A6 @=I HT
00FFB 90 D0 27 AA F0 06 20 D2 TT I F
1000 FF 4C F4 0F A9 0D 20 D2 @L I O P M
100B FF A0 07 A9 20 20 D2 FF @B HT
1010 8B D0 FB A5 C6 D0 0B AD @M = K HT
101B 8D 02 C9 01 F0 F9 A0 02 @B A = B
1020 D0 B1 A9 00 B5 C6 20 42 @F @ = B
102B F6 20 54 0D 0D 0D 20 20 @ TMMH
1030 20 20 20 20 20 20 50 52 PR
103B 45 53 53 20 41 4E 59 20 ESS ANY
1040 4B 45 59 20 54 4F 20 43 KEY TO C
104B 4F 4E 54 49 4E 55 45 00 ONTINUE@
1050 20 E4 FF F0 FB A9 80 8D @ HT
105B 91 02 60 85 FE 84 FD A9 @B = J HT
1060 05 20 D2 FF A5 FD 85 FE @ HT
106B A0 1D A2 0E 18 20 F0 FF @NX HT
1070 7B E6 03 20 03 11 20 CE @C CQ /
107B 10 E6 FC C6 FF D0 F4 A9 P @=I HT
1080 05 20 F9 10 EE 17 11 C6 E @P+WQ
108B FE D0 D9 60 85 FE 84 FD @J = J HT
1090 A9 05 20 D2 FF A5 FD 85 FE @ HT
109B FF A0 1D A2 0E 18 20 F0 @ NX HT
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10B0 A9 02 20 F9 10 EE 17 11 @B @P+WQ
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10C0 FC A0 00 B1 FB 99 00 18 @=I HT
10CB C8 D0 FB 4C 18 11 20 3B @TLXQ B
10D0 12 A0 00 84 FB 84 01 B9 R @=A

10DB 00 18 91 FB CB D0 FB A9 @X @ I HT
10EB 37 85 01 60 A0 00 84 FB @A= @ HT
10EB 84 01 B1 FB 99 00 18 CB @A= @X I
10FB 00 FB A9 37 85 01 4C 18 @77ALX
10FB 11 AE 17 11 9D 6C D9 9D @WQ IL I I
1100 94 D9 60 AE 17 11 BD 6C @I = WQ L
110B D9 49 03 9D 6C D9 BD 94 @IC IL I I
1110 D9 49 03 9D 94 D9 60 00 @IC I I = @
111B A0 00 2C 00 DD 50 FB B9 @, @ IP =
1120 00 18 AA 29 0F 8D 4D 11 @X D O MQ
112B 8A 4A 4A 4A 4A AA 38 AD @JJJJ B
1130 12 D0 E9 32 90 04 29 07 R @2 D) G
113B F0 F5 A9 07 8D 00 DD BD @F @I
1140 6F 11 8D 00 DD 4A 4A 29 FQ @I JJ)
114B F3 8D 00 DD A2 00 BD 6F @I @I
1150 11 8D 00 DD 4A 4A 29 F3 Q @I JJ) I
115B 8D 00 DD A9 23 EA CB 8D @I @I
1160 00 DD D0 BB 60 AD 12 D0 @I = @ HT
116B C9 0A B0 F9 4C 1F 11 07 @J @L + QG
1170 87 27 A7 47 C7 67 E7 17 17 @I I W
117B 97 37 B7 57 D7 77 F7 3F @7 W O O
1180 3A 2A 7B A9 37 85 01 A2 @X @7 A =
118B FD 9A 5B A9 00 8D 20 D0 @X @ @ HT
1190 8D 21 D0 BD 15 D0 20 90 @I @I
119B FF 20 76 12 A0 09 A2 0C @ X R I =
11A0 18 20 F0 FF 20 54 0D 05 X HT TME
11AB 20 20 20 20 20 20 20 20
11B0 20 20 20 20 20 20 20 20
11BB 20 20 20 20 20 20 20 00 @
11C0 A0 08 A2 0E 18 20 F0 FF H=NX HT
11CB 20 54 0D 05 4B 49 54 20 TMEHIT
11D0 53 50 41 43 45 20 54 4F SPACE TO
11DB 20 43 4F 4E 54 49 4E 55 CONTINU
11E0 45 2E 2E 2E 00 4C 0D 08 E...@LMH
11EB C9 20 D0 F9 A9 00 8D 20 @L @
11F0 D0 BD 21 D0 20 76 12 20 @I @ X R
11FB 20 12 A9 49 20 AB FF 20 RPI @ HT
1200 AE FF A9 05 AB A6 4C 86 @P E @L
120B BA 20 BA FF A9 03 A2 7F @J @C = HT
1210 A0 11 20 BD FF A9 00 20 Q @I @
121B D5 FF 20 E7 FF 6C 00 03 @ HT @L @C
1220 A9 00 85 90 A5 BA 20 B1 @I @I
122B FF A9 6F 20 93 FF A5 90 @T @I @ HT
1230 D0 01 60 6B 6B 4C 25 08 @A= I ILXH
123B A0 00 2C 00 DD 50 FB 38 @, @ IP = B
1240 AD 12 D0 E9 32 90 04 29 @772 D)
124B 07 F0 F5 A9 03 8D 00 DD @H @C @I
1250 0A 0A 0A 0A 0A 0A 4D 00 JJJJJJM@
125B DD 4A 4A EA 4D 00 DD 4A IJJ M@IJ
1260 4A EA 4D 00 DD 4A 4A A2 J M@IJ
126B 23 4D 00 DD BE 00 DD 99 @M@I @I I
1270 00 18 CB D0 CA 60 A9 93 @X I @ HT
127B 4C D2 FF 85 4B 20 E4 FF @ HT K HT
1280 C5 4B D0 F9 60 85 BA BE @K = J HT
128B AD 12 8C AE 12 20 20 12 @RL = R R
1290 A0 00 B9 AA 12 20 AB FF @ R HT
129B CB C0 05 90 F5 20 AE FF @E HT HT
12A0 7B A0 23 BC 00 DD CB D0 @ #L@I I HT
12AB FD 60 4D 2D 45 00 00 20 @M = E@
12B0 76 12 A0 03 A2 0A 18 20 @R C = JX
12BB F0 FF 20 54 0D 1C 54 55 HT TMETU

..:12C0 52 4E 20 4F 46 46 20 42 RN OFF B
..:12C8 4F 54 48 20 44 52 49 56 OTH DRIV
..:12D0 45 53 2C 20 54 48 45 4E ES, THEN
..:12D8 20 54 55 52 4E 20 4F 4E TURN ON
..:12E0 00 A0 05 A2 0C 1B 20 F0 @ E L X
..:12E8 FF 20 54 0D 54 41 52 47 TMTARG
..:12F0 45 54 20 44 52 49 56 45 ET DRIVE
..:12F8 20 41 4E 44 20 50 52 45 AND PRE
..:1300 53 53 20 52 45 54 55 52 SS RETUR
..:1308 4E 00 A9 0D 20 7B 12 A9 NQPM +R
..:1310 08 85 BA A9 0B A2 6C A0 H L P H L
..:1318 13 20 BD FF A9 6F 85 B9 S J P T
..:1320 20 D5 F3 20 76 12 A0 07 J X R G
..:1328 A2 0A 18 20 F0 FF 20 54 J X T
..:1330 0D 4E 4F 57 2C 20 54 55 MNDW, TU
..:1338 52 4E 20 4F 4E 20 53 4F RN ON SD
..:1340 55 52 43 45 20 44 52 49 URCE DRI
..:1348 56 45 00 A0 0C A2 0C 1B VEO L L X
..:1350 20 F0 FF 20 54 0D 41 4E TMAN
..:1358 44 20 50 52 45 53 53 20 D PRESS
..:1360 52 45 54 55 52 4E 00 A9 RETURNQ
..:1368 0D 4C 7B 12 4D 2D 57 77 ML+RM-WO
..:1370 00 02 29 49 A2 3F BD 99 QB I ?
..:1378 13 9D 40 03 CA 10 F7 A9 S I Q P
..:1380 0D BD FB 07 A9 06 BD 27 M G F
..:1388 D0 A9 4E BD 00 D0 A9 00 T N Q
..:1390 BD 10 D0 60 00 7C 8C 9C N P T Q L
..:1398 AC 00 00 00 FF FF FF C0 Q Q Q Q
..:13A0 3F FF C0 3F FF C0 3F FC ? ? ? ?
..:13A8 FF FF FC FF FF FF FF C3 ? ? ? ?
..:13B0 FF FF 81 FF FF 81 FF FF ? ? ? ?
..:13B8 C3 3F FF FF FF FF E7 FF ? ? ? ?
..:13C0 FF E7 FF FF E7 FF FF E7 ? ? ? ?
..:13C8 FF FF E7 FF FF 7E FF 00 ? ? ? ?
..:13D0 00 00 00 00 00 00 00 00 Q Q Q Q
..:13D8 00 A2 18 A0 00 8B D0 FD Q X Q
..:13E0 CA D0 FA 60 7B A0 0B 8C Q J Q HL
..:13E8 00 18 CB D0 FD 20 20 03 Q X I P D
..:13F0 EE 4A 03 20 20 03 EE 4A Q J C C J
..:13F8 03 20 20 03 EE 4A 03 20 C C J C
..:1400 20 03 5B 60 A9 7A 8D 02 C X Q B
..:1408 1B A0 00 A9 01 8D 00 1B X Q A Q X
..:1410 2C 00 1B D0 FB 24 80 AD Q X Q
..:1418 00 1B 0A EA EA 4D 00 1B Q X J I M Q X
..:1420 0A 0A 0A 4D 00 1B 0A EA J J J M Q X J I
..:1428 EA 4D 00 1B 99 00 04 CB M Q X I Q D I
..:1430 D0 D9 A9 0B 8D 00 1B 60 T I P H Q X
..:1438 4C 4B EB 4C 3C 04 4C 34 L K H L D L 4
..:1440 04 4C 53 06 4D 4B 06 7B D L S F L K F
..:1448 A9 0B 8D 00 1B AD 00 1C P H Q X Q
..:1450 09 0C 8D 00 1C A9 EE 8D I L Q E
..:1458 0C 1C A2 80 A0 00 8B D0 L E Q I
..:1460 FD CA D0 FA 60 AD 00 1C J L Q E
..:1468 29 F3 8D 00 1C 5B 60 20 J L Q E
..:1470 0C 04 C6 10 4C 8B 05 20 J L Q E
..:1478 0C 04 A9 03 85 10 85 31 LD PL IE
..:1480 4C 8B 05 A9 7A 8D 02 1B L I E Q X
..:1488 A0 00 A9 01 8D 00 1B 2C Q A Q X
..:1490 00 1B D0 FB 24 80 AD 00 Q X Q
..:1498 1B 0A EA EA 4D 00 1B 0A X J I M Q X J
..:14A0 0A 0A 4D 00 1B 0A EA J J M Q X J I
..:14AB 4D 00 1B 99 00 03 CB D0 M Q X I Q C I

..:14BD D9 A9 0B 8D 00 1B 60 A0 P H Q X
..:14B8 00 A2 00 B9 00 03 4A 4A Q Q Q Q C J J
..:14C0 4A 4A BD A2 04 B9 00 03 J J Q D Q C
..:14C8 29 0F 8E 00 1B AA BD BE Q Q Q X H
..:14D0 04 AE 00 1B D0 FB 8D 00 D Q X Q
..:14D8 1B 0A 29 0F A2 00 8D 00 X J I Q
..:14E0 1B BD BE 04 A2 00 8D 00 X Q D Q
..:14E8 1B 0A 29 0F CB 8D 00 1B X J I Q
..:14F0 D0 C9 EA A9 0B 8D 00 1B T P H Q X
..:14FB 60 0F 07 0D 05 0B 03 09 Q G M E K C I
..:1500 01 0E 06 0C 04 0A 02 0B A N F L D J B H
..:1508 00 A9 FF A6 22 E4 21 F0 Q P Q Q
..:1510 30 B0 02 A9 01 85 C9 1B Q B A Q X
..:1518 65 22 85 22 A2 02 1B AD Q Q Q B X
..:1520 00 1C 65 C9 29 03 85 CB Q E Q C T I
..:1528 AD 00 1C 29 FC 05 CB 8D Q E Q E I
..:1530 00 1C A9 A5 8D 05 1B 2C Q E Q X
..:1538 05 1B 30 FB CA D0 DF F0 EX Q Q T
..:1540 CB A5 22 20 4B F2 85 20 I Q K
..:1548 85 B9 AD 00 1C 29 9F 1D Q E Q
..:1550 1B 05 8D 00 1C 60 00 20 E E Q
..:1558 40 60 AD 0C 1C 29 1F 09 Q Q L Q
..:1560 C0 8D 0C 1C A9 FF 8D 03 Q L E Q C
..:1568 1C 8D 01 1C 60 A9 D0 8D Q A E Q
..:1570 05 1B 2C 05 1B 10 1A 2C EX, EXPZ,
..:1578 00 1C 30 F6 A9 D0 8D 05 Q E Q Q E
..:1580 4B 2C 05 1B 10 0B 2C 00 X, EXPK, Q
..:1588 1C 10 F6 AD 01 1C 8B 1B E P Q A E Q X
..:1590 60 3B 60 A9 30 85 C9 A5 Q B Q O Q
..:1598 16 45 17 45 1B 45 19 85 V E W E X E Y
..:15A0 1A 20 34 F9 20 32 05 B0 Z 4 2 E
..:15A8 14 A0 00 50 FE 8B B9 24 T Q P Q
..:15B0 00 CD 01 1C D0 07 CB C0 Q A E Q
..:15B8 0B D0 F0 1B 60 C6 C9 D0 H T X Q
..:15C0 E3 3B 60 A6 10 20 8D 07 Q B Q P Q
..:15C8 20 CE 04 A6 8B A9 00 9D Q D Q Q
..:15D0 00 02 85 8B A5 22 85 1B Q B Q Q X
..:15D8 A9 00 85 19 A9 02 85 C4 Q Q Y Q
..:15E0 20 5B 05 B0 31 20 32 05 X E I 2 E
..:15E8 B0 2C A0 00 50 FE 8B AD r, Q P Q
..:15F0 01 1C 99 00 03 CB D0 F4 A E I Q
..:15F8 A0 BA 50 FE 8B AD 01 1C Q P Q
..:1600 99 00 01 CB D0 F4 20 E0 Q A I
..:1608 F8 A5 3B C9 07 D0 07 20 Q B Q G Q
..:1610 E9 F5 C5 3A F0 0B C6 C4 Q Q Q K
..:1618 D0 C6 A6 8B A5 22 9D 00 Q Q Q I
..:1620 02 20 7C 04 C6 B9 F0 46 B Q D Q
..:1628 A6 8B A5 22 C9 19 B0 12 Q Q Q Y
..:1630 BD 0D 06 C5 20 90 04 E6 Q M F Q
..:1638 B8 D0 ED 85 19 E6 8B 4C Q Q Q Y
..:1640 A1 05 BD 21 06 4C F8 05 E E Q F L Q
..:1648 07 0E 01 0B 0F 02 09 10 G N A H O B I P
..:1650 03 0A 11 04 0B 12 05 0C C J Q D K R E L
..:1658 13 06 0D 14 06 0C 12 01 S F M T F L R A
..:1660 07 0D 02 0B 0E 03 09 0F B M B H N C I D
..:1668 04 0A 10 05 0B 11 A6 8B D J P E K Q
..:1670 BD 00 02 F0 02 E6 8B E6 Q Q B Q
..:1678 21 C6 BD F0 03 4C 8D 05 Q Q Q C L Q
..:1680 20 AC 07 4C 2A 04 20 0C Q B L Q D L
..:1688 04 C6 11 4C 72 06 A9 0B D Q L F Q H
..:1690 8D 00 1B A5 22 D0 0D A9 Q X I Q M

S W A P P E R S B E S T !!!!!!!!!

DOMIX/CLI FIXED!

INSERT SOURCE DISK AND PRESS RETURN

21

SWAPPERS BEST COPY

Floppyprg-Transferoutine (Floppy-Teil)

25.02.86

```

C300 78 SEI      Betriebssystem abschalten
C301 A0 08 LDY #108
C303 8C 00 18 STY $1800
C305 08 INY      39 Zyklen warten unnötig
C307 D0 FD BNE $C306
C309 20 20 03 JSR $0320 $0000 holen
C30C EE 4A 03 INC $034A
C30F 20 20 03 JSR $0320 $0500 holen
C312 EE 4A 03 INC $034A
C315 20 20 03 JSR $0320 $0600 holen
C318 EE 4A 03 INC $034A
C31B 20 20 03 JSR $0320 $0700 holen
C31E 58 CLI      Betriebssystem an
C31F 60 RTS      zurück
-----
C320 A9 7A LDA #$7A
C322 8D 02 18 STA $1802
C325 A0 00 LDY #00
C327 A9 01 LDA #$01
C329 8D 00 18 STA $1800
C32C 2C 00 18 BIT $1800
C32F D0 FB BNE $C32C
C331 24 80 BIT $80
C333 AD 00 18 LDA $1800
C336 0A ASL
C337 EA NOP
C338 EA NOP
C339 4D 00 18 EOR $1800
C33C 0A ASL
C33D 0A ASL
C33E 0A ASL
C33F 4D 00 18 EOR $1800
C342 0A ASL
C343 EA NOP
C344 EA NOP
C345 4D 00 18 EOR $1800
C348 99 00 04 STA $0400, Y ablegen
C34B C8 INY
C34C D0 D9 BNE $C327
C34E A9 08 LDA #$08
C350 8D 00 18 STA $1800
C353 60 RTS
C354 4C 4B EB JMP $EBAE Reset-Routine (unbenutzt)
  
```

SWAPPERS BEST

19.12.02.96

\$0908 Gopy-Routine (vorher 4C/4D auf Source/Dest-Drv setzen!)

1276 CLS

0DD8 BS-Masko

0C2A auf CR warten, Pass ausgeben

1220 Der Present? KLISTEN

09ED-0A1E write-protect-Test

0C68 Pass-Nr ausgeben

0A97 Drive-Routinen an Laufwerk [A] übertragen

0AF6 richtige Gopy-Routine

105B (Vorber. für Laden) Blinken

0DC1 laden

0CAB Inst Back Dsk

108C Vorber. f. Schreiben

0DAB schreiben

0C13 Inst Src Dsk + Flp-Rout starten

1205 startet Floppyroutine

\$1800 Sec Buffer

Spuren 1-24 Sektorversatz
Spuren 25-35 Sektorversatz

plug log
0 0
1 0
2 0
3 9
4 12
5 15
6 17
7 1
8 4
9 :

(H10)=Sector Nr.

0928

(\$FE) = Tracks

(\$FD) = Sector

(\$FC) = Head Pos

0A88 LDA Drv
JSR 0A97, Floppy routine transfer

0B12 A = 8 (Driv)
X = 6
Y = 4
JSR \$1285 Prog starten

0B1C LDA #19, STA #FC, Ziel

0B20 A = 8, Y = 15, JSR MOVC Spuren
Tks SecSize schreiben

0B27 JSR 0DAB ; Status, Fehlermeldung

0B50 LDA Drv, CD #9, LDY #4; JSR \$1285
0B5A LDA #19, STA #FC
0B5E A = 6, Y = 15, JSR \$1080
A = 7, Y = 13 108C

0B6C JSR 0DAB
0B9C LDA Drv, CD #9, LDY #4; JSR \$1285

0BAG LDA #19, STA #FC

0BAA 2, 12 → 108C

0DAB

- ✓ 0A97-0AF5 Floppyroutine übertragen
 ✓ 1220-1237 LISTEN
 ✓ 1285-12AF Floppyroutine starten (auch 1287)
 13E4-143A Übertragungsroutine, Floppy-Teil
 ✓ 10BD-10CD Unkopieroutine (hier übertragen)
 ✓ 1118-1164 256 Bytes an Floppy übertragen
 143B-17F4 Floppyroutine!
 ✓ 105B-108B (ohne 105F-1063 Spuren lesen
 1068-106F
 1071-1075
 107F-1086)
 ✓ 10CE-10E3 Sektor lesen und in Speicher kopieren
 ✓ 1288-1275 Sektor lesen empfangen

✓ 0DC1-0DD7 Fehlerantwortung (ohne ~~0DB-0DB9~~ → RTENOPNOP)
 (anpassen!), ^{lesen}

✓ 0C13-0C1E (ohne 0C13-0C15)
 Leseroutine starten

✓ 0CAB-0D41 (ohne 0CAC-~~0D39~~) Schreibroutine starten

✓ 108C-10BC (ohne 1090-1094
 1099-10A0
 10A4-10A6
 10B2-10B4)

✓ 10E4-10F6 Sektor unkopieren und senden

✓ 0DAB-0DD7 Fehleransw. schreiben (anpassen: 0E99, etc.)

0A97-0AF5
 0C13-0C1E
 0CAB-0D41
 0DAB-0DD7

~~0DAB-0DD7~~
 105B-108B
 108C-10BC
 10BD-10CD
 10CE-10E3
 10E4-10F6
 1118-1164
 1220-1237
 1288-1275
 1285-12AF
 13E4-143A
 143B-17F4