```
ACCIONSOFT *
                               STATION
                                                    653
                                                             27/07/81
EXC NK
                                                                                214, 244
    2 3100
                     / 666 666
   10 3100
                     / 0
                           0
                               00
  11 3100
  12 3100
                       10
                           13.13
                                13
                      (3)
                           0
                                0
   13 3100
                      666 6
                               000
   14 3100
  15 3100
  500 3100 4C OF 31
                      JMP KK1
                     CONTROL SECTION
 1000 3103
 1010 3103
                     : UU1
                     JSR QQ13 CHECK FOR CHAR FROM K/B (THIS ROUTINE ALSO
1020 3103 20 BE
                 34
1025 3106
                     CALLED FROM JJ1)
                                                           will be sent in 001
                     JSR ROZO SEND ANY CHAR WAITING IN K/B BUFFER (THIS ROUTINE
1030 3106 20 E9 34
1035 3109,
                     ONLY CALLED FROM HERE)
1050 3109 20 7C 35
                      JSR RR1 TRANSFER PRESTEL BUFFER TO $2070 W/S (THIS ROUTINE
1055 3100
                     ONLY CALLED FROM HERE)
 1080 310C 4C 03 31 JMP UU1
   1 310F
  10 310F
                      666 666
                               (9 (B)
   11 310F
                       (3)
                           13
                               @ @
   12 310F
                       (7)
                           (9.6)
                                (4)
   13 310F
                       (3
                           0
                                10
   14 310F
                      200 G
                               6666
   15 310F
 1000 310F
                     \INITIALISE
 1010 310F 20 F1 36 :KK1 /USR VV4 CLEAR ALL W/S & VIDEO
                                                             move to end of IRZ
1020 3112 A9 F0
                     LDA B#F8
1030 3114 8D 00 B0
                    STA #B000 HIGH RES GRAPHICS MODE
1040 3117 A9 00
                     LDA BO
                                                      - STA WW 20 clear while sepaces
                     STA WW19 CLR REVEAL PAGE FLAG
 1050 3119 85 86
                      STA ZZ5 CLR CHAR ARRIVING FLAG
 1060 311B 85
              96
 1070 311D 85
              98
                      STA ZZ6 CLR CHAR BEING SENT FLAG
                     STA ZZ19 HOME CURSOR JUL
 1080 311F 85 B2
                     ZSTA ZZZO -
 1090 3121 85 B4
 1110 3123 85 BA
                      STA ZZ23 CLR LAST CHAR WAS ESC FLAG
                    LLDA 01 J .
STA ZZ22 CURSOR DN OFF
 1112 3125 A9
              01
1113 3127 85
              B8
 1120 3129 A9
              FF
                      LDA B#FF
1130 3128 85
              AD
                      STA ZZ10 SET KEY RELEASED FLAG
1140 312D A9
                      LDA 0#30 INITIALISE BUFFERS
                     STA ZZ15+1/ prested bustor - change to refer to RxCP
1150 312F 85 AB
 1160 3131 85 AD
 1170 3133 85 A3
                     STA ZZ11+1/
                                    Ked luffer sp
                     STA ZZ12+1
 1180 3135 85 AS
                                     netat
                      STA ZZ12
 1190 3137 85 A4
 1205 3139 85
                      STA ZZ11
              A2
 1210 3138 A9
              60
                     LDA B#601
 1220 313D 85 AC
                      STA ZZ16
 1235 313F 85 AA
                      STA ZZ15
 1240 3141 A9
                      LDA @#2C INITIALISE POINTER TO 2ND HALF OF D.H. FLAGS
 1250 3143 85
              88
                     STA WW21+1
 1260 3145 A9
              50
                     LDA @#50
 1270 3147
                     STA WW21
              SA
 1280 3149 A9
              03
                     LDA @3 SET UP BAUD RATE TIMES
 1290 3148 85
                      STA ZZ4+1
 1300 314D A9
              41
                     LDA 2441
                                                      rerat
1310 314F 85
              94
                      STA ZZ4
 1320 3151 A9
                      LDA 8#34
```

```
| 1330 3153 85 93 | STA ZZC+1 | LOA 9415 | JACACA | JACAC
```

```
1300 31C5 D0 07 BNE GG8

1310 31C7 A0 00 LDY @0

1320 31C9 B4 7E STY WW15 CLEAR DOUBLE HEIGHT FLAG

1330 31CB 4C FC 31 JMP GG2

1335 31CE C9 1E :GGB CMP @$1E HOLD GRAPHICS ?

1336 31D0 D0 05 BNE GG9

1337 31D2 E6 80 INC WW16 SET HOLD
1338 3104 4C FC 31 JMP GG2
1340 31D7 C9 1F :GG9 CMP @#1F RELEASE GRAPHICS?
1350 31D9 D0 07 BNE GG10
                       BNE GG10
LDY @0
1350 31D9 D0 07
1360 31DB A0 00 LDY 80
1370 31DD 85 80 STA WW16 CLEAR HOLD GRAPHICS FLAG
1380 31DF 4C FC 31 JMP GG2
1430 31E2 C9 08 :GG10 CMP @#08 FLASHING?
                    BNE GG11
 1440 31E4 DO-05
1450 31E6 E6 82 INC WW17 SET FLASHING FLAG
1460 31E8 4C FC 31 JMF GG2
1510 31F3 4C FC 31 JMP GG2
1760 3216 60

1 3217

10 3217

11 3217

12 3217

13 3217

14 3217

15 3217

2800 3217

2810 3217

2860 3217
                     1000000 000 00000 Reflore.
BEG 887 (NO)
RTS
 2890 321B F0 01
 2960 321D 60
2970 321E 20 F7 35 :SS7 JSR RR6 CALCULATE WW7
2980 3221 20 21 37 JSR VV8 CALCULATE WW2
2990 3224 20 39 32 JSR SS2 DISPLAY LINE
                    LDY ZZ19
 3000 3227 A4 B2
3010 3229 C8 INY NEXT LINE
3020 322A B1 BA LDA (WW21),Y 2ND HALF OF D.H. NEXT LINE?
3030 322C F0 0A BEQ 888 (NO)
3040 322E E6 B2 INC ZZ19
```

```
3050 3230 20 21 37 JSR VV8 CALC WW2
3060 3233 20 39 32 JSR 852 DISPLAY LINE
3070 3236 C6 B2
               DEC ZZ19 BACK TO PRESENT LINE
3080 3238 60
3295 3266 20 ED 32 :SS6 JSR JJ1 CONVERT CHAR IN A TO SIMULATED CHAR
3297 3269 A4 72 LDY WW9 GET Y
3299 3268 C8 INY NEXT CHAR
3300 326C C0 28 CPY 040 END OF LINE?
3310 326E D0 D9 BNE 883
3320 3270 20 74 32 JSR MM1 PRINT LINE ON VIDEO
3330 3273 60 RTS
1035 3274 2C 02 80 :MM1 BIT #8002
1036 3277 30 FB BMI MM1 REMOVE SNOW
1040 3279 A9 08 LDA 08 SET COUNTER
1040 3279 A9 08
```

```
1190 3287 A0 00 LDY 80 SET DISPLACE TO 0
1150 3288 B1 62 LDA (MHI)** CET A
ASL A
1170 3286 DA ASL A
1170 3292 CB A
1190 3292 CB CB
1190 3292 CB CB
1190 3293 CB
1190 CB
1190 CB
1190 CB
```

```
*MM6
DEC WW5
BNE MM2 NEXT 40 BYTES
 1755 32E8
 1760 32E8 C6 6A
1770 32EA D0 99
 1780 32EC 60
                                       RTS
s 1 32ED
  10 32ED \ 000 000 00

11 32ED \ 0 0 0 0

12 32ED \ 0 00 0 0

13 32ED \ 0 0 0 0

14 32ED \ 000 0 0
 14 32ED
15 32ED
3000 32ED
3010 32ED
 3022 32EE 20 BE 34 JSR QQ13 CHECK K/B

3023 32F1 68 PLA RESTORE

3030 32F2 A4 7C LDY WW14

3040 32F4 D0 03 BNE JJ20 GRAPHICS MODE

3045 32F6 4C 8C 33 JMP JJ2 ALPHANUMERICS
 3050 32F9 C9 40 :JJ20 CMP @#40
3060 32FB 90 07 BCC JJ3 NOT BLAST THROUGH
3070 32FD C9 60 CMP @#60
3080 32FF B0 03 BCS JJ3 NOT BLAST THROUGH
 3650 3308 85 76 STA WW11
3660 330A 68 PLA
3670 330B 29 1F AND @#1F
3680 330D 18 CLC
3685 330E 65 76 ADC WW11
3690 3310 85 76 STA WW11 SAVE THE 6 BITS
3700 3312 29 30 AND @#30 GET 2 MSB
3710 3314 4A LSR A SHIFT TO 2LSB POSITION
1220 3315 4A LSR A
12370 3317 4A LSR A
1258 A
1270 3318 20 7B 33 JSR JJ4 GENERATE BIT PATTERN FOR 1ST 3 BYTES
3760 331E 8D 45 2C STA #2C46
  3770 331E 8D 46 2C STA #2C46
 3780 3321 8D 47 2C STA $2C47

3790 3324 A5 76 LDA WW11 GET THE 6 BITS

3800 3326 29 0C AND @#C GET MIDDLE 2 BITS

LSR A SHIFT TO 2 LSB POSN.

3810 3329 4A LSR A

3820 332A 20 7B 33 JSR JJ4 GENERATE BIT PATTERN FOR MIDDLE 2 BYTES

3830 332D 8D 43 2C STA #2C43 STORE
  3840 3330 8D 44 2C STA $2C44
                                  LDA WW11 GET THE 6 BITS
  3850 3333 A5 76
  3860 3335 29 03 AND 03 GET THE 2LSBS
3870 3337 20 78 33 JSR JJ4 GENERATE BIT PATTERN FOR LAST 3 BYTES
3880 333A 8D 40 2C STA $2C40 STORE
3890 333D 8D 41 2C STA $2C41
  3900 3340 8D 42 2C STA $2C42
  3910 3343 A9 40 LDA 0$40 SET UP ADDRESS OF CHAR. PATTERN
3920 3345 85 68 STA WW4
3930 3347 A9 2C LDA 0$2C
3940 3349 85 69 STA WW4+1
3950 3348 A5 7A LDA WW13
```

```
3940 334D F0 29 BEQ JJ7 SEPARATED GRAPHICS?
3970 334F A9 00 LDA 00 (SEPARATED)
3980 3351 8D 40 2C STA #2C40
3990 3354 8D 42 2C STA #2C42
 4000 3357 8D 43 2C STA #2C43
4000 3357 8D 43 2C 8TA #2C45
4010 335A 8D 45 2C 8TA #2C45
4020 335D 8D 47 2C 8TA #2C47
4030 3360 A9 18 LDA @#18
4040 3362 48 PHA
4050 3363 2D 41 2C AND #2C41
4060 3366 8D 41 2C 8TA #2C41
4070 3369 68 PLA
4080 336A 48 PHA
 4090 336B 2D 44 2C AND $2C44
4100 336E 8D 44 2C STA $2C44
4110 3371 68 PLA

4120 3372 2D 46 2C AND $2C46

4130 3375 8D 46 2C STA $2C46

4140 3378 4C A1 33 :JJ7 JMP JJ11 STORE CHAR. PATTERN IN WORKSPACE

4160 3378 85 78 :JJ4 STA WW12 PUT IN A THE BIT PATTERN FOR
5120 339D 69 27 ADC 0#27 ADD #2700 TO ANS. -> ADDR IN KAN

5130 339F 85 69 STA WW4+1

5135 33A1 :JJ11

5140 33A1 A4 B2 LDY ZZ19 PRESENT ROW

5150 33A3 B1 8A LDA (WW21),Y 2ND HALF OF D.H. THIS ROW?

5160 33A5 D0 4F BNE JJ16 (YES)

5170 33A7 A4 7E LDY WW15

5180 33A9 F0 2E BEQ JJ13 D.H. FLAG CLEAR

5190 33AB A0 00 :JJ17 LDY @0 (D.H.)
```

```
5320 33C2 91 70 STA (NWB),Y STORE AGAIN
5330 33C4 20 CF 33 JSR JJ15 ADD 40 TO Y
5340 33C7 E8 INX
5350 3308 C6 6C DEC NW6
5360 33CA D0 E7 BNE JJ14
5370 33CC 4C F3 33 JMP JJ12
5710 340E 85 87
5720 3410 4C D9 33 JMP JJ13
 1 3413

10 3413 | @@@ @@@ @@@@

11 3413 | @ @ @

12 3413 | @ @ @

13 3413 | @ @ @

14 3413 | @@@ @ @

15 3413 | INTERRUPT ROUTINE TO SERVICE DUTPUT FROM K/B
 1005 3413 AD 08 BB :001 LDA #B808 CLR TIMER 2 INTERRUPT
1080 3423 AQ 00 B8 LDA #B800
```

```
ROR A
1082 3426 6A
                    ROR A
1084 3427 6A
                    PLP
1086 3428 28
                    ROL A
1088 3429 2A
                   ROL A
1090 342A 2A
                    ATA #BB00 PUT ON PORT B
1110 3428 8D
             00 88
                    LDA ZZ3
             92
1120 342E
          A5
                    STO $BB08
1130 3430 8D
             0.8
                    LDA ZZ3+1
1140 3433 A5
             93
                    STA MBB09 SET TIMER 2
                BB
1158 3435 8D
            8.9
                    JMP XQ11
1160 3438 40
             AF
                34
                   : QQ3 LNA @420 DISABLE TIMER 2 INTERRUPT
1171 343B A9
             20
                    STA PERDE
1173 343D 8D
                    LDA EO
     3440 A9
             0.0
1176
                    STA ZZ6 CLEAR FLAG SHOWING IF CHAR IS ALREADY BEING SENT
1177
     3442 85
             98
                    JMP RR11
1180 3444 40
            AF
                   : DO4 SEC SAND STOP BIT
1190 3447 38
                    JMP RR2
1195 3448 40 22 34
1200 3440
                   INTERRUPT RINTING TO SERVICE INPUT FROM PRESTEL
2000 344B
2010 3448 AD 04 B8 :008 LDA $B804 CLR TIMER 1 INTERRUPT
                    DEC ZZ8
2020 344E C6 9C
                    BER RRY STOP BYT DUE
2030 3450 FO
2040 3452 A5 9C
                    LDA ZZS
                   CMP 08
2050 3454 C9 08
                   BEG DOT 1ST BIT OF BYTE
     3456 F8 0F
2051
                    CMP 01
2053 3458 09
             0.1
                    BNE GGS NOT LAST DATA BIT
     345A D0 28
2054
                    LDA ##3F (LAST DATA BIT)
2055 345C A9
2056 345E 2D
             0B BB
                   AND $B88B
                   STA #8808 STOP CONTINGOUS INTERRUPTS JUST 1 MORE (STP BIT)
             DB BB
2057 3461 BD
             84 34
                    JMP RR6
2058 3464 40
2072 3467 AD OB BB : QQ7 LDA #BBOB SET TIMEN 1 FOR MULTIPLE INTERRUPTS
2074 346A 29
                    AND @#3F
             3F
             40
                    DRA @#40
2076 3460 09
                    STA $B80B
2084 346E BD
             08
                BB
                    LDA @#CO ENABLE TIMER 1 FOR INTERRUPT
2086 3471 A9
             0.0
                BB STA $BBOE
2090 3473 8D DE
                    LDA ZZ4
2110 3476 A5 94
2120 3478 80 04
                BB STA #BB84
2130 347B A5
                LDA ZZ4+1
             95
             05 BS STA $8805 SET TIMER 1 @ 1200 BAUD
2140 347D 8D
                 LDA 00
2170 3480 A9
             0.0
                    STA ZZ7 CLEAR TEMP STORE FOR INCOMING CHAR
2180 3482 B5 9A
3040 3484 AD 00 BB : QQ6 LDA #BB00 GET BIT FROM PRESTE
                    ROR A
3050 3487 6A
                    ROR ZZ7 PUT IN TEMP STORE WITH OTHER BITS ALREADY ARRIVED
3060 3488 66 96
3090 348A 4C AF 34
                   JMP QQ11
                    top9\STOP BIT
     348D
3110
3115 348D AD 00 B8 LDA $B800 CLR CB1 INTERRUPT FLAG
                     LDA GO
3120 3490
          A9 00
                     STA ZZS CLEAR FLAG SHOWING IF CHAR IS ARRIVING
3130 3492
          85 96
                     STA $BBOC SET UP CB1 FOR START BIT INTERAUPT
3133 3494 BD BC BB
                     LDA @440 DISABLE TIMER 1 INTERRUPT
3134 3497 A9 40
                     STA #BBBE
3136 3499 8D DE BB
                     LDA 0190 ALLOW CB1 TO INTERRUPT
3140 349C A9 90
                     STA ABBOE
 3160 349E 8D 0E
                     LDA ZZ7 GET CHAR
 3165 34A1 A5 9A
                     LDY BB
 3174 34A3 A0 00
                     STA (ZZ15) Y STORE IN BUFFER
 3175 34A5 91 AA
                     LDY ZZ15
 3180 34A7 A4 AA
                     CPY @#60
 3190 34A9 CO 60
```

```
3200 34AB F0 06 BEQ QQ10 BUFFER NEEDS WRAP AROUND 3230 34AD C6 AA DEC ZZ15
3240 34AF 68
                       CORIT PLA
                     TAY RESTORE Y
PLA RESTORE A
RTI
3250 34B0 A8
3260 34B1 68
3270 34B2 40
                     :0010 LDY 0782 WRAP AROUND THE BUFFER
3280 34B3 A0 87
                   STY ZZ15
3290 34B5 84 AA
                    FDA 6#30
3295 3487 A0 30
                   STY ZZ15+1
3297 34B9 B4 AB
3300 34BB 4C AF 34 JMP 0011
3310 34BE
                       CHECK K/B & PUT ANY CHAR TYPED IN BUFFER
4000 34BE
4010 34BE
4020 34BE Z0 71 FE : QQ13 JSR #FE71 SCAN K/B
4030 34C1 CO FF
4030 3461 CO FF CPY PAFF
4040 3463 FO 21 CPY BEQ R016 NOTHING TYPED
4050 3405 A5 A0
                       LDA ZZ10
4060 34C7 F0 11

4070 34C9 E6 A0

4080 34C8 20 2D 37 JSR UV9 GET THE CHAR WA

4082 34CE A0 00

4085 34D0 91 A2

FINALLY STORE CHAR IN BUFFER

1087 7211
4060 34C7 FO 11
                       BER DR14 KEY NOT YET RELEASED FROM LAST TIME: IGNORE
                        CPY 8+30
4100 34D4 C0 30
                                                                      LDY, # 30.
                       BEG ROIS BUFFER NEEDS WRAP AROUND DEE XX11
                                                                   100728 HO537
4110 34D6 F0 03
                                                                                     ** PAUSMIT
4130 34DB C6 A2
                                                                     WENT BIT $ 3030
4140 34DA 60
                       NOIS LOY 0457 MAP AROUND THE BUFFER
4150 34DB A0 57
                                                                        BVC
                       STY 2711
LDY @#30
9TY 2711+1
                                                                               QQ I mucess
4160 34DD 84 A2
                                                                         DE ( ZZII QQ I
4162 34DF A0 30
4164 34E1 B4 A3
                                                                                        Top again
                       TOO 16 STY ZZ10 SET KEY RELEASED FLAG (TO $FF)
                        UMP DOLA
4170 34E3 4C DA 34
                                                                                         Reg Egyes
4180 34E6 84 A0
4190 34EB 60
                                                                               LDA CO
4200 3469
                       A CHAR WAITING IN K/B BUFFER, THEN START SENDING
5000 34E9
5010 34E9
                    WAITING CHAR
                                                                               5T4 ZZ11
5020 34E9
5030 34E9
                                                                        · / bleep & return
                      \(DESTROYS ALL REGISTERS)
5040 3AE9 A5 98
                      :0020 LDA ZZ6
5050 34EP D0 39 BNE QQ21 CHAR ALREADY BEING SENT
5060 34ED A4 A4 LDY ZZ12
5070 34EF C4 A2 CPY ZZ11
5080 34F1 0 33 BEQ QQ21 BUFFER EMPTY
5090 34F3 EX 98 INC ZZ6 SET FLAG BHOWING CHAR BEING SENT
5095 34F5 A0 00 LDY P0
5100 34F7 B1 A4 LDA (ZZ12),Y GET CHAR FROM BUFFER
                                                                            : 00 2 LDY 42211
                                                                                   LDA #0002
                                                                                   GOR @4
                                                                                   STA # 8002
                                                                             : OQ3 AFX
5100 34F7 B1 A4 LDA (ZZ12),Y GET CHAR FROM BUFFER

5110 34F9 B5 98 STA ZZ2 PUT IN TEMP STORE

5120 34FB A9 FD LDA 0*FD

5130 34FD 2D 00 8 AND #8800
                                                                                   PNE QQ3
                                                                                  RTS Bromy
                                                                              ", QR4 LAA@SON
                                                                                            roidin
                        STA $8800 PUT START BIT (0) AT BIT 1 OF PURT B STM 22/
5140 3500 BD 00 BK
                                                                                 BNE RQZ APPEROX
5150 3503 A5 92
                        LDA ZZ3
                       DA ZZ3+1
5160 3505 8D 08 BB
5170 3508 A5 93
5180 350A 8D 09 B8
                        STA $BB09 SET TIMER 2 @ 75 BAUD
                        LDA 09 NO. OF BITS STILL TO BE SENT
5190 350D A9 09
                                                                                        short bed
                        STA ZZ1
LDA P#AD ENABLE TIMER 2 FOR INTERRUPT
5200 350F 85 8E
5210 3511 A9 A0
5230 3513 8D OE BB STA 1880E
                        LDA POP SET TIMER 2 FOR 1 SHOT MODE
5240 3516 A9 DF
5250 3518 2D 08 88 AND #8808
```

```
5260 3518 8D 08 88 STA $8808
                      LDY ZZ12
5500 351E A4 A4
                      CPY P#30
5510 3520 CO 30
                     BEQ QQ22 BUFAER NEEDS WRAP AROUND
5520 3522 F0 03
                     DEC ZZ12
5530 3524 C6 A4
                     :0021 878
5540 3526 60
                    10022 LDY @#57 NRAP AROUND THE BUFFER
5550 3527 AB 57
                  STY ZZ12
LDY @#30
5555 3529 B1 A4
5557 3528 A0 30
                     STY ZZ12+1 -
5558 352D 84 A5
5560 352F 60
                      RTS
5570 3530
                     SERVICE INTERRUPT REQUEST
6000 3530
                   :0025 TYA
6010 3530 98
6020 3531 48 PHA SAVE Y
6040 3535 0A ASL A PUT TIME DUT FLAGS IN BITS 687 DF A
6040 3536 85 A6 STA ZZ13
6050 3538 24 A6 BIT ZZ13
6060 353A 30 0B BMI QR26 TIMER 1 CALLED INTERRUPT - SERVICE IT
6070 353C 70 0C BVS QR27 TIMER 2 CALLED INTERRUPT - SERVICE IT
6080 353E 06 A6 ASL ZZ13
6030 3532 AD 8D B8 LDA $B80D
6090 3540 24 A6 BIT ZZ13
4100 3542 ZO 09 BVS GR24 START BIT ON CB1 CALLED INTERRUPT - SERVICE IT
                     VEALSE INTERRUPT
6110 3594
6120 3544 4C AF 34 JMP RR11
6130 3547 40 48 34 :QQZ6 JMP QQB SERVICE PRESTEL TNPUT
6140 354A 4C 13 34 :QRZZ JMP QR1 SERVICE K/E DUTPAT
6150 354D
                      VINTERRUPT ROUTINE TO SERVICE START BIT FROM PRESTEL
7000 3540
7005 3540 AD 00 BB 10024 LDA #BB00 CLR INTERRUPT
7010 3550 A5 96 LDA ZZ5 CHECK FLAG TO SEE IF CHAR ALREADY ARRIVING
7020 3552 DO 25 BNE GQ23 YES - IGNORE INTERRUPT
                      INC ZZS SET FLAG
7030 3554 E6 96
                       LDA C#10
7050 3556 A9 10
7060 3558 BD DE BB STA $BBDE DISABLE FURTHER CB1 INTERRUPTS
7061 3558 AD 04 88 LDA $8804 CLR TIMER 1 INTERRUPT FLAX
                      LDA B#C0
7062 355E A9 D0
                      STA #BBOE ALLOW TIMER 1 TO INTERRUPT
7064 3560 BD DE BB
                       LDA 943F SET TIMER 1 FOR SINGLE INTERAUPT
7070 3563 A9 3F
7080 3565 2D BB BB AND $BB0B
7090 3568 8D 0B BB
                      STA #BBOB
                       LDA ZZ14 LATCH & GD (1.5 BITS @ 1200 BAND)
7100 356B A5 AB
                      STA #BRD9
7110 356D 8D 94 BB
                       LDA ZZ14+1
 7120 3570 A5 A9
7130 3572 8D 05 BB STA 48885
                       LDA 29
 7134 3575 A9 09
7134 3577 85 90 STA ZZE NO. OF BITS YET TO COME IN THIS BYTE
 7138 3579 4C AF 34 :0023 JMP 0011
$ 1 3570
   10 3570
                      / 666 666 60
                      e e e e difficult.
   11 35ZC
   12 3570
   13 3570
                      / 668 6
   14 357C
 15 357C
1000 357C
1010 357C
                    ATRANSFER PRESTEL BUFFER TO $2070 N/S
                      18 TAKE ACTION ON ANY CONTROL CHARS
 1015 357C (DESTROYS ALL REGISTERS)
1018 357C
1020 357C A4 AC TDY ZZ15
1030 357E C4 AA TCFY ZZ15

(DESTROYS ALL REGISTERS)
1078 357C
1079 ZZ15
                      CPY ZZ15
 1030 357E C4 AA
```

```
INC ZZ115
                                       BEG RRZB BUFFER EMPTY
 1040 3580 FO ZE
                                       LDY @0
 1045 3582 A0 00
                                       LDA (ZZ16) Y GET CHAR FROM BUFFE
 1050 3584 B1 AC
                                       LDY ZZ16
 1060 3586 A4 AC
                                       CPY @#68
 1070 3588 CO 60
 1080 358A F0 19
                                      BEQ RRS BUFFER NEEDS WRAP AROUND
                                      DEC ZZ16
 1090 358C C6 AC
 1095 358E 29 7F
                                    IRR2 AND P#7F STRIP PARITY
 1100 3590 C9 18
                                     CMP 9#18 ESCAPE?
                                     BER RR4 (YES)
 1101
          3592 F0 2A
                                     LDY ZZZZ
 1102 3594 A4 BA
                                       PHP
 1104 3596 08
                                     LDY 0.0
 1105 3597 A0 00
 1106 3599 84 BA
                                    STY ZZZZ CLR ESC FLAG
 1107 3598 28
                                       PLP
                                      BNE RR29 LAST CHAR WAS ESC
 1114 359C DO 25
                                CMF 0+20 DTHER CONTROL CHAR?
 1120 359E C9 20
                               BMI RRS (YES)

JMP RRSO STORE IN W/S

FRES LDY 0+87

STY ZZ16

LDY 0+30

STY ZZ16+1

JMP RR2

JMP RR2

LDY 0+30

STY ZZ16+1

STY ZZ16+1
 1120 359E C9 20 CMP 0020 OTHER
1130 35A0 30 28 BMJ RR5 (YES)
 1190 35A2 4C A2 36
 1900 35A5 A0 87
 1910 35A7 84 AC
 1914 35A9 A0 30
 1916 35AB 84 AD
 1928 35AD 40 BE
                                       RR28\DISPLAY CURSOR IF ZZZZ IS SET
 1922 35B0
                                     LDA ZZ22
 1924 35B0 A5 BB
 1926 35B2 F0 09
                                      BEG RRO NO CURSOR
 1928 3584 20 D0 36
                                        JSR VV1 PUT CURSOR IN #2B00 W/8
 1938 3587 20 21 37 USR VV8 CALCULATE NW2
 1932 35BA 20 74 32 JSR MM1 REDISPLAY LINE: NOW WITH CURSOR
                                     IRRO RTS
 1934 35BD 60
                                     :RR4 INC ZZZ3 SET ESC FLAG
 1940 35BE E6 RA
 1950 3500 40 C7 36 JMP RRZ3
 1960 3503
                                1RR29
 1975 3503 29 BF
                                      AND PARE CONVERT CHAR TO CONTROL CHAR
 1980 3505 49 80
                                      EOR @#80 CORRECT PARTTY
 1985 35CZ 4C A2 36 JMP RR30 STORE CHAR IN W/S
 2000 35CA
                                     NCONTROL CHAR WITHOUT PRECEDING ESCAPE
                                      NIE, DEMANDING IMMEDIATE CURSOR ACTION
 2010 35CA
 2020 35CA
                                     1RR5
                                   CMP @12 CS?
 2030 35CA C9 0C
 2040 35CC F0 6A
                                       BED RRIT
 2050 35CE C9 0D
                                       CMP 013 ACR?
 2060 3500 F0 78 BER RR18
                                CMP 017 CURSOR DN?
 2070 3502 09 11
                                 BER RR19
CMP 020 CURSOR OFF?
  2000 35D4 F0 68
 2090 3506 09 14
                                 BER RRZE
  2100 35D8 F0 69
  2110 35DA 20 F7 35 JSR RR6 CALCULATE WW7
  2120 35DD 20 17 32
                                      JSR 981 DISPLAY CURRENT LINE
                                        CMP 08 APB?
  2130 35E0 C9 08
  2140 35E2 F0 6D
                                        BER RR13
                                   CMP 09 APF?
 2150 35E4 C9 09
  2160 35E6 F0 7C
                                  BEO RK14
  2170 35E8 C9 0A
                                        CMP @10 APD?
OUT OF RANGE!
                                        BER RR15
  2180 35EA F0 00
                                   CMP 011 APU?
  2190 35EC C9 0B
OUT OF RANGE!
  2200 35EE F0 00
                                        BER KR16
 2210 35F0 C9 1E CMP 030 APH?
DUT OF RANGE!
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2220 35F2 F0 00 BEQ RR21
2230 35F4 4C CZ 36 JMP RR23 NO ACTION OTHERWISE
                         NORK DUT POSITION IN W/S STARTING #2070 OF 1ST CHAR OF
3000 35F7
                        VLINE TRAT CURSOR IS IN (PUT AT WH7)
3001 35F7
                        :RR6
3005 35F7
3010 35F7 48
                         PHA SAVE A
                        LDA PO
3020 35EB A9 00
                     STA WH7+1 CLR MSB OF CURSOR POSN IN W/S
LDA ZZ19 ROW OF CURSOR
3030 35FA 85 AF
3040 35FC A5 B2
3248 3620 E6 6F INC WW7+1
3250 362F A5 6F :RR32 LDA WW7+1 GET MSB DF ANS
3252 3631 18 CLC
3254 3632 69 20 ADC @42C
3254 3634 85 6F STA WW7+1 STORE
3258 3636 68 PLA RESTORE
3260 3637 60 RTS
4000 3638 :RR17\CLEAR SCREEN
4010 3638 20 F1 36 JSR VV4 CLEAR ALL W/S & VIDEO
 4010 3638 20 F1 36 USR VV4 CLEAR ALL W/S & VIDEO
 4020 363B 4D 99 36 JMP RR21 APH
 4500 363E :RR19\CURBOR ON 4510 363E E6 B8 INC ZZ22 SET CURSOR ON FLAG
 4520 3640 4C CZ 36 UMP RR23
 4530 3643
4540 3643 A9 00
                          1RR20\CURSOR OFF
 4540 3643 A9 00 LDA @0
4550 3645 85 88 STA ZZ22 CLEAR CURSON ON FLAG
4560 3647 4C CZ 36 JMP RR23
                       :RR18\ACTIVE POSITION RETURN
 4600 364A
                       LDA RO
 4610 364A A9 00
                          STA ZZZO COLUMN OF CURSOR SET TO 0
 4620 3640 85 84
 4630 364E 4C CZ 36 JMP RR23
                       TER13\ACTIVE POSITION BACK
 4640 3651
 4650 3651 C6 B4 DEC ZZZO 1 COLUMN LESS
4660 3653 10 0C BPL RR22
4670 3655 A9 27 LDA 039 1 ROW LESS ALSO
4680 3657 85 B4 STA ZZZO
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4690 3659 C6 B2 DEC ZZ19
                    BPL RR22
4700 365B 10 04
4710 365D A9 17
                     LDA 023
                 STA ZZ19
4720 365F 85 B2
4730 3661 4C C7 36 :RR22 JMP RR23
                    :RR14\ACTIVE POSITION FORWARD
4800 3664
4810 3664 E6 E4 INC ZZZ0 1 COLUMN MORE
4820 3666 A5 B4 LDA ZZZ0
                 CMF 040
4830 3668 C9 28
                     ENE RR25
4840 366A DO 10
                    LDA 00 1 ROW MORE ALSO
4850 366C AS 80
                 STA ZZ20
4860 366E 85 B1
                    INC ZZ19
4870 3670 E6 B2
4880 3672 A5 B2 LDA ZZ19
4890 3674 C9 18 CMP @24
                 BNE RR25
4900 3676 D0 04
4910 3678 A9 00 LDA 00
4920 367A 85 B2 STA ZZ19
4940 367F :RR15\ACTIVE POSTION DOWN
4950 367F E6 B2 :TNC ZZ19
4960 3681 A5 B2 :LDA ZZ19
                  LDA ZZ19
4970 3683 C9 18 CMP 824
4980 3685 D0 04 BNE RR26
4990 3687 A9 00 LDA 80
5000 3689 85 82 STA ZZ19
5010 3688 4C C7 36 :RR26 JMP RR23
           **RR16\ACTIVE POSITION UP
C6 B2 DEC ZZ19
10 04 BPL RR27
A9 17 LDA 023
85 B2 STA ZZ19
5020 368E
5030 368E C6 B2
5040 3690 10 04
5050 3692 A9 17
5040 3494 85 BZ
5070 3696 4C C7 36 1RR27 JMF RR23
5080 3699 RR21\ACTIVE FOSITION HOME
5090 3499 A9 00
                     LDA PO
5100 369B 85 B2
                     STA 2719
5110 369D 85 B4 STA ZZ20
5120 369F 4C CZ 36 JMP RR23
5130 36A2
5200 36A2
                    TRRSONPUT CHAR IN A INTO #2070 M/S
5220 36A2 20 F7 35 JSR RR6 CALCULATE WW7
5230 3665 48 PHA SAVE CHAR
5240 36A6 A5 B4
                    LDA ZZZO COLUMN OF CURSOR
5240 36A6 A5 B4 LDA ZZZ0 1

5250 36A8 18 CLC

5260 36A9 65 6E ADC MM7

5270 36AB 85 6E STA MM7

5280 36AD 90 02 BCC RR31

5290 36AF E6 6F TNC MM7+1
5310 36BF 20 17 32
                      JSR SS1 DISPLAY CURRENT LINE
      3602 40 64 36 JMP RR14 APF
5311
                     TRR24 INC ZZ20 ONE COLUMN MORE
5312 3605 EA B4
                     18823
6000 36C7
6010 36C7 20 F7 35 JSR RR6 CALCULATE WW7
6074 36CA 20 17 32 USR SS1 DISPLAY CURRENT LINE
6080 36CD 4C 7C 35 JMP RR1 ROUND AGAIN
```