After Seek:

005A → 5210
00A2 → 5232

```
00001                           IDENT     X1210
00002                   *
00003                   *  TEST PROGRAM MOVING HEAD DISC X1210
00004                   *
00005                   *         INITIALISATION
00006                   *
00007  0000  20BF              INH
00008  0002  0203       START  LDK       A2,/0003          SEEK TO ZERO
00009  0004  030E              LDK       A3,/000E          SEEK + 1
00010  0006  0401              LDK       A4,/0001          WRITE
00011  0008  0500              LDK       A5,/0000          READ
00012  000A  8620              LDKL      A6,202            SEEK COUNTER
       000C  00CA
00013  000E  0720              LDK       A7,32             SECTOR COUNTER
00014                   *
00015                   *         MULTIPLEX INITIALISATION (WRITE)
00016                   *
00017  0010  83A0              LDKL      A11,/1000         SECOND MULTIPLEX WORD
       0012  1000
00018  0014  83C1              ST        A11,/008A
       0016  008A
00019                   *
00020                   *         INITIALISATION OF WRITE BUFFER
00021                   *
00022  0018  86A0              LDKL      A14,/1000         LAST ADDRESS
       001A  1000                                          END OF BUFFER
00023  001C  84A0              LDKL      A12,/AAAA         WRITE DATA
       001E  AAAA                                          FIRST ADDRESS
00024  0020  85A0              LDKL      A13,/0E5C         BEGIN OF BUFFER
       0022  0E5C
00025                   *
00026                   *
00027  0024  84B7       STRWB  STR       A12,A13
00028  0026  95A0              ADKL      A13,2
       0028  0002
00029  002A  ED9A              CWR       A13,A14
```

```
00030  002C  5D0A                  RB(5)    STRWB
00031  002E  80A0          FLAGW   LDKL     A8,/0000          SET WRITE FLAG
       0030  0000
00032                      *
00033                      *       SEEK ZERO,SEEK AND WRITE COMMAND
00034                      *
00035  0032  84A0          STSEKO  LDKL     A12,/0400         STORE STATUS
       0034  0400
00036  0036  42C2                  CIO      A2,1,02           SEEK TO ZERO
00037  0038  4AC2          SST1    SST      A2,02
00038  003A  5C04                  RB(4)    SST1
00039  003C  E912                  CWR      A1,A12            COMPARE STATUS
00040  003E  5002                  RF(0)    TSFLW
00041  0040  207F                  HLT
00042  0042  0401          TSFLW   LDK      A4,/0001
00043  0044  0500                  LDK      A5,/0000
00044  0046  8182                  LDR      A9,A8             TEST WRITE FLAG
00045  0048  5002                  RF(0)    STATW
00046  004A  5748                  RF(7)    STATR
00047  004C  84A0          STATW   LDKL     A12,/0000         STORE STATUS
       004E  0000
00048  0050  0720                  LDK      A7,32
00049  0052  82A0          CIOWT   LDKL     A10,/0E5C         FIRST MULTIPLEX WORD
       0054  0E5C
00050  0056  82C1                  ST       A10,/0088
       0058  0088
00051  005A  44C2                  CIO      A4,1,02           WRITE
00052  005C  49C2          SST2    SST      A1,02
00053  005E  5C04                  RB(4)    SST2
00054                      *
00055                      *
00056  0060  E912          RB(7) x-10 CWR   A1,A12            COMPARE STATUS
00057  0062  5002                  RF(0)    TSSTNB
00058  0064  207F                  HLT
00059  0066  1404          TSSTNB  ADK      A4,4
00060  0068  1F01                  SUK      A7,1              UPDATE SECTOR COUNTER
```

```
006A  5C1A                    RB(4)    CIOWT   E
006C  1E01   RF(7) +2 →       SUK      A6,1    10      UPDATE CYLINDER COUNTER
006E  5402                    RF(4)    STATSK
0070  5710                    RF(7)    FLAGRD
0072  84A0          STATSK    LDKL     A12,/0400        STORE STATUS
0074  0400
0076  43C2  43D2              CIO      A3,1,02          SEEK + 1
0078  49C2          SST3      SST      A1,02
007A  5C04                    RB(4)    SST3
007C  E912                    CWR      A1,A12
007E  583E                    RB(0)    TSFLW
0080  207F                    HLT
0082  80A0          FLAGRD    LDKL     A8,/0001         SET READ FLAG
0084  0001
0086  83A0                    LDKL     A11,/2000        SECOND MULTIPLEX WORD
0088  2000
008A  83C1                    ST       A11,/008A
008C  008A
008E  8620                    LDKL     A6,202           SEEK COUNTER
0090  00CA
0092  5F62                    RB(7)    STSEKO
0094  84A0          STATR     LDKL     A12,/0000        STORE STATUS
0096  0000
                    *
                    *         INITIALISATION OF COUNTERS
                    *
0098  0720                    LDK      A7,32            SECTOR COUNTER
                    *
                    *         MULTIPLEX INITIALISATION (READ)
                    *
009A  82A0          READ      LDKL     A10,/4E5C        FIRST MULTIPLEX WORD
009C  4E5C
009E  82C1                    ST       A10,/0088
00A0  0088
                    *
                    *         READ WITH COMPARE
```

```
00089                          *
00090  00A2  45C2               CIO     A5,1,02
00091  00A4  49C2     SST4      SST     A1,02
00092  00A6  5C04               RB(4)   SST4
00093  00A8  E912               CWR     A1,A12
00094  00AA  5002               RF(0)   CMPBUF
00095  00AC  207F               HLT
00096  00AE  86A0     CMPBUF    LDKL    A14,/2000
       00B0  2000
00097  00B2  85A0               LDKL    A13,/AAAA
       00B4  AAAA
00098  00B6  82A0               LDKL    A10,/1E5C
       00B8  1E5C
00099  00BA  92A0     IMADR     ADKL    A10,2
       00BC  0002
00100  00BE  82C1               ST      A10,/3000
       00C0  3000
00101                          *
00102                          *
00103  00C2  83E0               LD*     A11,/3000
       00C4  3000
00104  00C6  EB96               CWR     A11,A13
00105  00C8  5002               RF(0)   ENDCP
00106  00CA  207F               HLT
00107  00CC  EA9A     ENDCP     CWR     A10,A14
00108  00CE  5C16               RB(4)   IMADR
00109  00D0  1504               ADK     A5,4
00110  00D2  1F01               SUK     A7,1
00111  00D4  5C3C               RB(4)   READ
00112  00D6  1E01               SUK     A6,1
00113  00D8  5C68               RB(4)   STATSK
00114  00DA  5FDA               RB(7)   START
00115        0002  R            END     START
```

SYMBOL TABLE

CIOWT	0052	R	CMPBUF	00AE	R	ENDCP	00CC	R	FLAGRD	0082	R
FLAGW	002E	R	IMADR	00BA	R	READ	009A	R	SST1	0038	R
SST2	005C	R	SST3	0078	R	SST4	00A4	R	START	0002	R
STATR	0094	R	STATSK	0072	R	STATW	004C	R	STRWB	0024	R
STSEKO	0032	R	TSFLW	0042	R	TSSTNB	0066	R			

00000 ERRORS IN ABOVE ASSEMBLY