X1210

1

```
                IDENT    DISCT5                                                  ASM 02
        *
        * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
        *
        *       THIS PROGRAM IS MADE TO TEST THE SEEK OPERATION OF THE DISC.
        *       ALL THE BUS-LINES FROM CONTROL UNIT TO THE DISC-UNIT ARE TESTED.
        *       THE PROGRAM CAN RUN IN TWO WAYS:
        *           WITH VARIOUS DIFFERENCE-NUMBER IN THE SEEK COMMAND,
        *           WITH ONE DIFFERENCE NUMBER IN THE SEEK COMMAND.
        *                THIS IS DETERMINED BY THE ADDRESS IN REGISTER A8.
        *
        *       A1 IS USED FOR THE CIO-COMMANDS.
        *       A2 IS USED FOR GENERAL PURPOSE.
        *       A3 INDICATES THE DIFFERENCE.
        *       A4 INDICATES THE ACTUAL CYLINDER NUMBER.
        *       A5: FORWARD=1 ; REVERSE=0 .
        *       A6 SHOWS THE STATUS.
        *       A7 IS LOADED WITH THE STATUS ERRORS.
        *       A8 CONTAINS THE ADDRESS TO WHICH THE PROGRAM JUMPS AFTER
        *       ONE SEEK OPERATION.
        *       IT CAN BE CHANGED BY THE USER INTO AUTO1 IF AUTOMATIC CHANGE OF THE
        *       DIFFERENCE IS WANTED.
        *       THE RESTART ADDRESS IS RSTART.
        *
        * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
```

X1210 DISCT 5 2

```
                                EJECT
                        DCU     EQU     2
0000  80A0              START   LDKL    A8,FILLIN
0002  0000  F
0004  0301                      LDK     A3,1
0006  20BF              RSTART  INH
0008  0501                      LDK     A5,1
000A  8720                      LDKL    A7,/021F
000C  021F
000E  0103              ZERO    LDK     A1,3
0010  41C2                      CIO     A1,1,DCU
0012  0400                      LDK     A4,0
0014  4EC2                      SST     A6,DCU
0016  5C04                      RB(4)   *-2
0018  A61D                      TM      A6,A7
001A  5002                      RF(0)   *+4
001C  207F                      HLT                     STATUS ERROR.
001E  8214              FILLIN  LDR     A2,A5
0020  3A42                      SLL     A2,2
0022  8108                      LDR     A1,A2
0024  820C                      LDR     A2,A3
0026  3A43                      SLL     A2,3
0028  A908                      ORR     A1,A2
002A  2902                      ORK     A1,2
002C  41C2                      CIO     A1,1,DCU
002E  8514                      LDR     A5,A5           CALCULATE ACTUAL CYLINDER NUMBER.
0030  5000  F                   RF(0)   REVERS
0032  940C                      ADR     A4,A3
0034  5700  F                   RF      SENS
0036  9C0C              REVERS  SUR     A4,A3
0038  4EC2              SENS    SST     A6,DCU
003A  5C04                      RB(4)   *-2
003C  A61D                      TM      A6,A7
003E  5002                      RF(0)   *+4
0040  207F                      HLT                     STATUS ERROR.
0042  3501                      XRK     A5,1            CHANGE FORWARD/REVERSE.
0044  8F02                      ABR     A8
                        *
                        *       END OF SEEK OPERATION.
                        *       ROUTINE TO CHANGE THE DIFFERENCE:
                        *
0046  582A              AUTO1   RB(0)   FILLIN
0048  3B41                      SLL     A3,1
004A  FB20                      CWK     A3,128
004C  0080
004F  5A32                      RB(2)   FILLIN
0050  80A0                      LDKL    A8,AUTO2
0052  0000  F
0054  0301                      LDK     A3,1
0056  5F3A                      RB      FILLIN
```

X1210

DISCT 5

3

```
00071  0058  583C      AUTO2   RB(0)   FILLIN
00072  005A  1301              ADK     A3,1
00073  005C  FB20              CWK     A3,203
       005E  00CB
00074  0060  5A44              RB(2)   FILLIN
00075  0062  80A0              LDKL    A8,AUTO3
       0064  0000  F
00076  0066  0301              LDK     A3,1
00077  0068  5F4C              RB      FILLIN
00078  006A  3501      AUTO3   XRK     A5,1
00079  006C  5000  F           RF(0)   BACK
00080  006E  8210              LDR     A2,A4                FORWARD
00081  0070  920C              ADR     A2,A3
00082  0072  EA20              CWK     A2,203
       0074  00CB
00083  0076  5A5A              RB(2)   FILLIN
00084  0078  0500              LDK     A5,0
00085  007A  5F5E              RB      FILLIN
00086  007C  8210      BACK    LDR     A2,A4
00087  007E  9A0C              SUR     A2,A3
00088  0080  5964              RB(1)   FILLIN
00089  0082  0501              LDK     A5,1
00090  0084  1301              ADK     A3,1
00091  0086  EB20              CWK     A3,200
       0088  00C8
00092  008A  5A7E              RB(2)   ZERO
00093  008C  80A0              LDKL    A8,AUTO1
       008E  0046  R
00094  0090  0301              LDK     A3,1
00095  0092  5F86              RB      ZERO
00096                          END
```