```
                          00001          ABS                                     MTCHK001
      03C0                00002          ORG      /200                           MTCHK002
                          00003     **************************************************MTCHK003
                          00004     *    CHI MTCHK    ****   V1 M2  ****            MTCHK004
                          00005     *                                              MTCHK005
                          00006     *              20 MAR 78  - VINCE FLORIAN       MTCHK006
                          00007     *                                              MTCHK007
                          00008     * NOTES:                                       MTCHK008
                          00009     *              XR3 = RETRY COUNT               MTCHK009
                          00010     *              XR4 = ROUTINE NUMBER            MTCHK010
                          00011     *              XR5 = STATUS WORD 1             MTCHK011
                          00012     *              XR6 = STATUS WORD 2             MTCHK012
                          00013     *                                              MTCHK013
                          00014     *       3000  WAIT FOR MODE IN SWITCHES        MTCHK014
                          00015     *       3001  WAIT FOR XPORT TO REWIND         MTCHK015
                          00016     *       3006  WAIT FOR INTERRUPT (SELECT AND SENSE) MTCHK016
                          00017     *       3007  WAIT FOR INTERRUPT (COMMAND CHAIN) MTCHK017
                          00018     *       301E  ILSW ERROR - ILSW BIT IS IN ACC  MTCHK018
                          00019     *                                              MTCHK019
                          00020     ***************************************************** MTCHK020
    0200 00 658009D0      00021     TOP    LDX    I1 BR                           MTCHK021
    0202 00 6D000000      00022            STX    L1 /0                           MTCHK022
    0204 00 658009D1      00023            LDX    I1 BR+1                         MTCHK023
    0206 00 6D000004      00024            STX    L1 /4                           MTCHK024
    0208 00 6500023C      00025            LDX    L1 INIT                         MTCHK025
    020A 00 6D000005      00026            STX    L1 /5                           MTCHK026
    020C 00 6500C4B7      00027            LDX    L1 INT3                         MTCHK027
    020E 00 6D00000B      00028            STX    L1 /B                           MTCHK028
    0210 00 650004CD      00029            LDX    L1 INT4                         MTCHK029
    0212 00 6D00000C      00030            STX    L1 /C                           MTCHK030
                          00031     **************************************************MTCHK031
                          00032     *        FILL WRITE BUFFER WITH VAR DATA        MTCHK032
                          00033     **************************************************MTCHK033
    0214 00 5C451000      00034            RLD    L2 /1000 LD XR2 W/BUFFER SIZE      MTCHK034
    0216 00 CC0009CE      00035            LDD    L  DATA  GET THE DATA IN A AND Q   MTCHK035
    0218 00 D6001FFF      00036     LP1    STO    L2 WBUF-1                       MTCHK036
    021A 0  18C1          00037            RTE       1     SHIFT THE DATA          MTCHK037
    021B 0  72FF          00038            MDX    2 -1     DROP THE WRITE BUF ADDRESS MTCHK038
    021C 0  70FB          00039            MDX       LP1   FILL THE WRITE BUFFER    MTCHK039
    021D 0  6300          00040            LDX    3 0       POINTER FOR MESSAGE 0   MTCHK040
    021E 00 44000496      00041            BSI    L  TYPE    GO TYPE MESSAGE 0      MTCHK041
    0220 0  701B          00042            MDX       INIT                          MTCHK042
                          00043     ***************************************************** MTCHK043
                          00044     * THIS ROUTINE ENTERED FROM CONSOLE INTERRUPT   MTCHK044
                          00045     ***************************************************** MTCHK045
    0221 0  631C          00046     CONS   LDX    3 28      MESSAGE POINTER         MTCHK046
    0222 00 44000496      00047            BSI    L  TYPE                          MTCHK047
    0224 00 C40009D4      00048            LD     L  PASS                          MTCHK048
    0226 00 44000486      00049            BSI    L  CONV                          MTCHK049
    0228 00 44000496      00050            BSI    L  TYPE                          MTCHK050
    022A 00 C40009D5      00051            LD     L  RETRY                         MTCHK051
    022C 00 44000486      00052            BSI    L  CONV                          MTCHK052
    022E 00 44000496      00053            BSI    L  TYPE                          MTCHK053
    0230 00 C40009D6      00054            LD     L  FERRS    GET FLAGGED ERROR COUNT MTCHK054
    0232 00 44000486      00055            BSI    L  CONV     CONVERT FOR MESSAGE    MTCHK055
    0234 00 44000496      00056            BSI    L  TYPE     MSG                   MTCHK056
    0236 00 C40009D7      00057            LD     L  CERRS    GET READ COMPARE ERROR COUNTMTCHK057
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0238 00 44000486 00058          BSI  L  CONV                                MTCHK058
023A 00 44000496 00059          BSI  L  TYPE                                MTCHK059
023C 0  6100     00060   INIT   LDX  1 0                                    MTCHK060
023D 00 6D0009D4 00061          STX  L1 PASS    ZERO COUNTER                MTCHK061
023F 00 6D0009D5 00062          STX  L1 RETRY   ZERO COUNTER                MTCHK062
0241 00 6D0009D6 00063          STX  L1 FERRS   ZERO FLAGGED ERROR COUNT    MTCHK063
0243 00 6D0009D7 00064          STX  L1 CERRS   ZERO COMPARE ERROR COUNT    MTCHK064
0245 0  6301     00065          LDX  3 1        SET DISPLACEMENT POINTER    MTCHK065
0246 00 44000496 00066          BSI  L  TYPE    TYPE MESSAGE 1              MTCHK066
           00067   ********************************************             MTCHK067
0248 0  3000     00068   WAIT   0        WAIT FOR MODE IN SWITCHES          MTCHK068
0249 00 44000496 00069          BSI  L  TYPE    TYPE MSG 2                  MTCHK069
024B 00 0C0009CC 00070          XIO  L  RDSW    READ SWITCHES               MTCHK070
024D 00 C40009DF 00071          LD   L  SWIT                                MTCHK071
024F 00 5C740004 00072          RAND LA /0004 MASK ALL BUT MODE            MTCHK072
0251 00 D40009D2 00073          STO  L  MODE                                MTCHK073
0253 00 4C180258 00074          BZ      TMSG4                               MTCHK074
0255 00 44000496 00075          BSI  L  TYPE    TYPE MSG 3 (PE MODE)        MTCHK075
0257 0  7003     00076          MDX     REWD-1  GO REWIND TRANSPORTS        MTCHK076
0258 0  6304     00077   TMSG4  LDX  3 4        POINTER FOR MSG 4           MTCHK077
0259 00 44000496 00078          BSI  L  TYPE    GO TYPE MSG 4               MTCHK078
           00079   ********************************************             MTCHK079
           00080   *   REWIND ALL XPORTS AND HALT CONTROLLER   *           MTCHK080
           00081   ********************************************             MTCHK081
025B 0  6100     00082          LDX  1 0                                    MTCHK082
025C 00 C40009D2 00083   REWD   LD   L  MODE                                MTCHK083
025E 0  5977     00084          ROR  A 1        PUT IN XPORT NUMBER         MTCHK084
025F 00 D40009E6 00085          STO  L  REW+1                               MTCHK085
0261 00 0C0009C4 00086          XIO  L  READY   REWIND XPORT                MTCHK086
0263 0  3001     00087          WAIT    1        WAIT FOR SELECT INTERRUPT  MTCHK087
0264 00 C4000AA5 00088          LD   L  SENSE+1 GET STATUS WORD 2           MTCHK088
0266 0  1005     00089          SLA     5        SEE IF REWINDING           MTCHK089
0267 00 442802DB 00090          BSI  L  PRGIN,+Z IF NEG, WAIT FOR PROG INT  MTCHK090
0269 00 0C0009C2 00091          XIO  L  HALT    HALT CONTROLLER             MTCHK091
026B 00 5C750003 00092          RLD  LA /3       SEE IF ALL XPORTS DONE     MTCHK092
026D 0  5976     00093          REOR A 1                                    MTCHK093
026E 00 D40009D3 00094          STO  L  XPORT                               MTCHK094
0270 00 4C180276 00095          BZ      CKDR+2  IF DONE, GO CHK XPORTS      MTCHK095
0272 0  7101     00096          MDX  1 +1        INCREMENT XPORT NUMBER     MTCHK096
0273 0  70E8     00097          MDX     REWD    GO DO THE REST              MTCHK097
           00098   ********************************************             MTCHK098
           00099   *                                                        MTCHK099
           00100   *   CHECK FOR NEXT AVAILABLE TAPE DRIVE                  MTCHK100
           00101   *                                                        MTCHK101
           00102   ********************************************             MTCHK102
0274 00 740109D3 00103   CKDR   MDM  L  XPORT,+1                            MTCHK103
0276 00 C40009D3 00104          LD   L  XPORT   NOW LIMIT IT                MTCHK104
0278 00 5C740003 00105          RAND LA /3       TO 0 THRU 3                MTCHK105
027A 00 D40009D3 00106          STO  L  XPORT   PUT IT BACK                 MTCHK106
027C 00 EC0009D2 00107          OR   L  MODE NOW COMBINE IT AND             MTCHK107
027E 00 D40009ED 00108          STO  L  SELCT+1 PUT IT IN COMMAND WORD      MTCHK108
0280 00 670009EC 00109          LDX  L3 SELCT      SELECT COMMAND           MTCHK109
0282 00 6F0009BC 00110          STX  L3 START                               MTCHK110
0284 00 0C0009BC 00111          XIO  L  START NOW GO CHECK IT               MTCHK111
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0286 0    3006       00112         WAIT    6      WAIT FOR INTERRUPT                          MTCHK112
0287 00 C4000AA5     00113         LD    L  SENSE+1                                           MTCHK113
0289 00 4C280274     00114         BN       CKDR  IF NOT AVAIL GO CHK NEXT                    MTCHK114
                     00115  **********************************************************MTCHK115
                     00116  * SET UP EXPECTED WORD 2 WITH MODE AND XPORT NUMBER MTCHK116
                     00117  **********************************************************MTCHK117
028B 0    6118       00118         LDX    1 24    NUMBER OF ROUTINES                          MTCHK118
028C 00 C40009D2     00119         LD    L  MODE                                             MTCHK119
028E 00 4C180292     00120         BZ       *+2   IF ZERO, DON'T PUT IN PE BITMTCHK120
0290 00 5C771004     00121         ROR   LA /1004 PUT IN PE BITS                             MTCHK121
0292 00 EC0009D3     00122         OR    L  XPORT PUT IN XPORT NUMBER                        MTCHK122
0294 0    5B95       00123         RCPY   4 A     HOLD IN XR4                                  MTCHK123
0295 00 C500053A     00124  LP3    LD    L1 CWD2-1 GET STATUS CHECK WORD 2      MTCHK124
0297 00 5C74EFF8     00125         RAND  LA /EFF8 MASK OUT OLD MODE AND DRIVE MTCHK125
0299 0    58F7       00126         ROR    A 4     PUT IN NEW MODE AND DRIVE      MTCHK126
029A 00 D500053A     00127         STO   L1 CWD2-1 PUT IT BACK                             MTCHK127
029C 0    71FF       00128         MDX    1 -1    DROP COUNTER/POINTER                        MTCHK128
029D 0    70F7       00129         MDX      LP3                                               MTCHK129
                     00130  **********************************************************MTCHK130
                     00131  *       SET UP FOR ROUTINE 0                                      MTCHK131
                     00132  **********************************************************MTCHK132
029E 00 6D0009D8     00133         STX   L1 RTN   ZERO ROUTINE NUMBER                        MTCHK133
02A0 00 660009F0     00134         LDX   L2 RTN0  GET ADR OF RTN 0                           MTCHK134
02A2 00 6E0009BC     00135         STX   L2 START                                            MTCHK135
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                  00137    *****************************************    MTCHK137
                  00138    *                                            MTCHK138
                  00139    *     XEQ MTA SUBROUTINE                      MTCHK139
                  00140    *                                            MTCHK140
                  00141    *****************************************    MTCHK141
                  00142    *                                            MTCHK142
02A4 0  5BF3      00143    AGAIN RSUB  A A          ZERO ACC             MTCHK143
02A5 00 D4000AA4  00144          STO   L SENSE        AND STATUS WORD 1  MTCHK144
02A7 00 D4000AA5  00145          STO   L SENSE+1      AND STATUS WORD 2  MTCHK145
02A9 00 D40009E0  00146          STO   L ILSW3      ZERO ILSW            MTCHK146
02AB 00 0C0009BC  00147          XIO   L START      GIVE MTA XIO START   MTCHK147
02AD 0  3007      00148          WAIT    7          WAIT FOR INTERRUPT   MTCHK148
02AE 00 CC000AA4  00149          LDD   L SENSE      GET STATUS WORDS 1 AND 2  MTCHK149
02B0 0  5BB5      00150          RCPY  5 A          PUT WORD 1 IN XR5    MTCHK150
02B1 0  18D0      00151          RTE     16          PUT WORD 2 IN XR6   MTCHK151
02B2 0  5BD5      00152          RCPY  6 A                               MTCHK152
02B3 00 C4000AA9  00153          LD    L SENSE+5    GET RETRYS           MTCHK153
02B5 00 5C7400FF  00154          RAND  LA /00FF     SAVE ONLY THE RETRYS MTCHK154
02B7 00 D40009D5  00155          STO   L RETRY                           MTCHK155
02B9 0  5BE5      00156          RCPY  3 A          DISPLAY THE RETRY COUNT  MTCHK156
02BA 0  5821      00157          RINC    1          INCREMENT THE RECORD COUNT  MTCHK157
02BB 00 668009D8  00158          LDX   I2 RTN       GET ROUTINE NUMBER IN POINTEMTCHK158
02BD 0  5A15      00159          RCPY  4 2          DISPLAY ROUTINE NUMBER IN XRMTCHK159
02BE 0  5A75      00160          RCPY  A 2                               MTCHK160
02BF 00 441802DB  00161          BSI   L PRGIN,+-   GO WAIT FOR PROG INT MTCHK161
02C1 00 5C750007  00162          RLD   LA 7         SEE IF RTN 7         MTCHK162
02C3 0  5A76      00163          REOR  A 2                               MTCHK163
02C4 00 441802DB  00164          BSI   L PRGIN,+-                        MTCHK164
02C6 00 5C75000C  00165          RLD   LA 12        SEE IF RTN 12        MTCHK165
02C8 0  5A76      00166          REOR  A 2                               MTCHK166
02C9 00 441802DB  00167          BSI   L PRGIN,+-                        MTCHK167
                  00168    *****************************************    MTCHK168
                  00169    *     CHECK STATUS WORDS FOR ERRORS    ****** MTCHK169
                  00170    *****************************************    MTCHK170
02CB 00 C6000523  00171          LD    L2 CWD1      GET EXPECTED STATUS WORD 1  MTCHK171
02CD 0  59F6      00172          REOR  A 5          COMPARE WITH STATUS WORD 1  MTCHK172
02CE 00 D40009E2  00173          STO   L BAD1       SAVE IT              MTCHK173
02D0 00 C600053B  00174          LD    L2 CWD2      GET EXPECTED STATUS WORD 2  MTCHK174
02D2 0  5AF6      00175          REOR  A 6          COMPARE WITH STATUS WORD 2  MTCHK175
02D3 00 D40009E3  00176          STO   L BAD2       BAD BITS WILL BE USED BY FLGMTCHK176
02D5 00 EC0009E2  00177          OR    L BAD1       TO FLAG BAD BITS IN MESSAGE MTCHK177
02D7 00 4C20038D  00178          BNZ     FLGER      IF NOT 0, GO TO FLAGGED ERROMTCHK178
02D9 00 4E80050B  00179    GO    BSC   I2 ROUTN     GO TO CORRECT ROUTINE       *MTCHK179
                  00180    *****************************************************MTCHK180
                  00181    *  WAIT FOR PROG INTERRUPT BEFORE CHECK STATUS WDS MTCHK181
                  00182    *****************************************************MTCHK182
02DB 0  0000      00183    PRGIN DC      *-*        ENTRY POINT          MTCHK183
02DC 00 C40009E0  00184          LD    L ILSW3      GET ILSW             MTCHK184
02DE 00 F40009DE  00185          EOR   L H0200      PROG INT ILSW BIT 6  MTCHK185
02E0 00 4C2002DC  00186          BNZ     PRGIN+1    WAIT FOR PROG INT    MTCHK186
02E2 00 D40009E0  00187          STO   L ILSW3      ZERO ILSW            MTCHK187
02E4 00 4C8002DB  00188 ,        BSC   I PRGIN      GO BACK TO CALLER            *MTCHK188
                  00189    *****************************************************MTCHK189
                  00190    * ADVANCE ROUTINE AND SET ALT COMMAND ADDRESS      MTCHK190
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                      00191    *****************************************************MTCHK191
02E6 00 740109D8 00192    ADVAN MDM  L  RTN,+1      INCREMENT ROUTINE            MTCHK192
02E8 00 668009D8 00193          LDX  I2 RTN                                      MTCHK193
02EA 0  5A15     00194          RCPY 4 2            DISPLAY ROUTINE NUMBER       MTCHK194
02EB 00 C60004F3 00195          LD   L2 RTNAD       GET NXT RTN ALT CMD ADR      MTCHK195
02ED 00 D40009BC 00196          STO  L  START       AND PUT IT THERE             MTCHK196
02EF 0  6100     00197          LDX  1 0            ZERO RECORD COUNT            MTCHK197
02F0 00 4C0002A4 00198          B    L  AGAIN                                    MTCHK198
                      00199    *****************************************************MTCHK199
                      00200    *  SPECIAL SUBROUTINES TO CHECK FOR DATA ERRORS    MTCHK200
                      00201    *****************************************************MTCHK201
02F2 00 4C0002E6 00202    RUT0  B    L  ADVAN                                    MTCHK202
02F4 00 4C0002E6 00203    RUT1  B    L  ADVAN                                    MTCHK203
02F6 00 4C0002E6 00204    RUT2  B    L  ADVAN                                    MTCHK204
02F8 00 4C0002E6 00205    RUT3  B    L  ADVAN                                    MTCHK205
02FA 00 4C0002E6 00206    RUT4  B    L  ADVAN                                    MTCHK206
02FC 00 4C0002E6 00207    RUT5  B    L  ADVAN                                    MTCHK207
02FE 00 4C0002E6 00208    RUT6  B    L  ADVAN                                    MTCHK208
0300 00 4C0002E6 00209    RUT7  B    L  ADVAN                                    MTCHK209
0302 00 4C0002E6 00210    RUT8  B    L  ADVAN                                    MTCHK210
0304 00 5C750004 00211    RUT9  RLD  LA 4           TO LOOP 4 TIMES              MTCHK211
0306 0  5976     00212          REOR A 1            SEE IF 4TH EDIT              MTCHK212
0307 00 4C2002A4 00213          BNZ  L  AGAIN                                    MTCHK213
0309 00 4C0002E6 00214          B    L  ADVAN                                    MTCHK214
030B 00 5C750400 00215    RUTA  RLD  LA /400        GET NEXT RTN WORD COUNT      MTCHK215
030D 00 D40009D9 00216          STO  L  WORDS                                    MTCHK216
030F 00 4C0002E6 00217          B    L  ADVAN                                    MTCHK217
0311 00 440003F8 00218    RUTB  BSI  L  RCOMP       GO COMPARE WORDS READ FOR ERMTCHK218
0313 00 5C750001 00219          RLD  LA 1                                        MTCHK219
0315 0  5976     00220          REOR A 1                                         MTCHK220
0316 00 4C20031B 00221          BNZ     *+3                                      MTCHK221
0318 00 5C7507FE 00222          RLD  LA /07FE       CHANGE BYTE COUNT            MTCHK222
031A 0  7002     00223          MDX     *+2                                      MTCHK223
031B 00 5C750800 00224          RLD  LA /0800       SET BYTE COUNT TO /800       MTCHK224
031D 00 D4000A31 00225          STO  L  RTNB+1                                   MTCHK225
031F 0  1801     00226          SRA     1                                        MTCHK226
0320 00 D40009D9 00227          STO  L  WORDS                                    MTCHK227
0322 00 5C750003 00228          RLD  LA 3                                        MTCHK228
0324 0  5976     00229          REOR A 1                                         MTCHK229
0325 00 4C2002A4 00230          BNZ  L  AGAIN       SET UP FOR RTN D, READ COMPAMTCHK230
0327 00 5C750100 00231          RLD  LA /100                                     MTCHK231
0329 00 D40009D9 00232          STO  L  WORDS                                    MTCHK232
032B 00 4C0002E6 00233    RUTC  B    L  ADVAN                                    MTCHK233
032D 00 440003F8 00234    RUTD  BSI  L  RCOMP                                    MTCHK234
032F 00 4C0002E6 00235          B    L  ADVAN       GET ACTUAL BYTE COUNT        MTCHK235
0331 00 C4000AA8 00236    RUTE  LD   L  SENSE+4                                  MTCHK236
0333 00 5C7607EE 00237          REOR LA /07EE                                    MTCHK237
0335 00 D40009E4 00238          STO  L  BAD5                                     MTCHK238
0337 00 4C20038D 00239          BNZ  L  FLGER                                    MTCHK239
0339 00 4C0002E6 00240    RUTF  B    L  ADVAN                                    MTCHK240
033B 00 4C0002E6 00241    RUT10 B    L  ADVAN                                    MTCHK241
033D 00 4C0002E6 00242    RUT11 B    L  ADVAN                                    MTCHK242
033F 00 C4000A82 00243    RUT12 LD   L  RTN13+1                                  MTCHK243
0341 0  1801     00244          SRA     1                                        MTCHK244
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0342 00 D40009D9 00245              STO   L   WORDS                                              MTCHK245
0344 00 4C0002E6 00246              B     L   ADVAN                                              MTCHK246
0346 00 440003F8 00247  RUT13 BSI   L   RCOMP                                                    MTCHK247
0348 00 C40009DC 00248              LD    L   TWO                                                MTCHK248
034A 00 D4000A87 00249              STO   L   RTN14+1                                            MTCHK249
034C 00 D4000A8C 00250              STO   L   RTN14+6                                            MTCHK250
034E 0  1801     00251              SRA       1                                                  MTCHK251
034F 00 D40009D9 00252              STO   L   WORDS                                              MTCHK252
0351 00 4C0002E6 00253              B     L   ADVAN                                              MTCHK253
0353 00 440003F8 00254  RUT14 BSI   L   RCOMP                                                    MTCHK254
0355 00 66800A87 00255              LDX   I2  RTN14+1   GET BYTE COUNT                           MTCHK255
0357 00 5C752000 00256              RLD   LA  /2000                                              MTCHK256
0359 0  5A76     00257              REOR  A 2           SEE IF MAX BYTE COUNT (BUF SMTCHK257
035A 00 4C1802E6 00258              BZ    L   ADVAN     EXIT IF MAX (/2E0 RECORDS)   MTCHK258
035C 0  5A75     00259              RCPY  A 2                                                    MTCHK259
035D 00 840009DE 00260              CMP   L   H0200                                              MTCHK260
035F 0  7006     00261              MDX       AD10      IF GT                                    MTCHK261
0360 0  7001     00262              MDX       AD2       IF LT                                    MTCHK262
0361 0  7004     00263              MDX       AD10      IF EQ                                    MTCHK263
0362 0  5A75     00264  AD2   RCPY  A 2           GET BYTE COUNT BACK                            MTCHK264
0363 00 840009DC 00265        A     L   TWO                                                      MTCHK265
0365 0  7002     00266        B         AD10+2                                                   MTCHK266
0366 00 840009DD 00267  AD10  A     L   H0010                                                    MTCHK267
0368 00 D4000A87 00268        STO   L   RTN14+1                                                  MTCHK268
036A 00 D4000A8C 00269        STO   L   RTN14+6                                                  MTCHK269
036C 0  1801     00270        SRA       1                                                        MTCHK270
036D 00 D40009D9 00271        STO   L   WORDS                                                    MTCHK271
036F 00 4C0002A4 00272        B     L   AGAIN                                                    MTCHK272
0371 00 C40009DA 00273  RUT15 LD    L   RECDS                                                    MTCHK273
0373 0  5976     00274        REOR  A 1                                                          MTCHK274
0374 00 4C2002A4 00275        BNZ   L   AGAIN                                                    MTCHK275
0376 00 C4000A98 00276        LD    L   RTN16+1   SET UP                                         MTCHK276
0378 0  1801     00277        SRA       1                                                        MTCHK277
0379 00 D40009D9 00278        STO   L   WORDS                                                    MTCHK278
037B 00 4C0002E6 00279        B     L   ADVAN                                                    MTCHK279
037D 00 440003F8 00280  RUT16 BSI   L   RCOMP                                                    MTCHK280
037F 00 C40009DA 00281        LD    L   RECDS                                                    MTCHK281
0381 0  5976     00282        REOR  A 1                                                          MTCHK282
0382 00 4C2002A4 00283        BNZ   L   AGAIN                                                    MTCHK283
0384 00 4C0002E6 00284        B     L   ADVAN                                                    MTCHK284
0386 00 740109D4 00285  RUT17 MDM   L   PASS,+1   INCREMENT PASS COUNT                           MTCHK285
0388 0  1000     00286        NOP                                                                MTCHK286
0389 0  5AF5     00287        RCPY  A 6                                                          MTCHK287
038A 0  1005     00288        SLA       5         SEE IF REWINDING                               MTCHK288
038B 00 4C280274 00289        BN        CKDR      IF SO, GO CHECK NEXT XPORT   MTCHK289
         00290        *************************************************MTCHK290
         00291        *                                                **MTCHK291
         00292        *         FLAGGED ERROR                          **MTCHK292
         00293        *                                                **MTCHK293
         00294        *************************************************MTCHK294
038D 0  6958     00295  FLGER STX   1   REGF+1    SAVE REGS                                      MTCHK295
038E 0  6A59     00296, •     STX   2   REGF+3                                                   MTCHK296
038F 0  685A     00297        STX   3   REGF+5                                                   MTCHK297
0390 00 740109D6 00298        MDM   L   FERRS,+1  INCREMENT FLAG ERR COUNT   MTCHK298
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0392 0   1000      00299              NOP                JUST IN CASE                    MTCHK299
0393 0   6311      00300              LDX   3 17  MSG 17 *** FLAGGED ERROR ***           MTCHK300
0394 00  44000496  00301              BSI   L  TYPE                                      MTCHK301
0396 00  C40009D8  00302              LD    L  RTN      GET ROUT NO.                     MTCHK302
0398 00  44000486  00303              BSI   L  CONV                                      MTCHK303
039A 00  44000496  00304              BSI   L  TYPE                                      MTCHK304
039C 0   6201      00305              LDX   2 1                                          MTCHK305
039D 0   6104      00306              LDX   1 4                                          MTCHK306
039E 0   59F5      00307              RCPY  A 5          GET "WAS" WORD 1                 MTCHK307
039F 00  44000456  00308              BSI   L  BITS                                      MTCHK308
03A1 00  44000496  00309              BSI   L  TYPE                                      MTCHK309
03A3 0   6201      00310              LDX   2 1                                          MTCHK310
03A4 0   6104      00311              LDX   1 4                                          MTCHK311
03A5 0   5AF5      00312              RCPY  A 6          GET "WAS" WORD 2                 MTCHK312
03A6 00  44000456  00313              BSI   L  BITS                                      MTCHK313
03A8 00  44000496  00314              BSI   L  TYPE                                      MTCHK314
03AA 00  668009D8  00315              LDX   I2 RTN       GET "SHOULD BE" WORD 1           MTCHK315
03AC 00  C6000523  00316              LD    L2 CWD1                                      MTCHK316
03AE 0   6201      00317              LDX   2 1                                          MTCHK317
03AF 0   6104      00318              LDX   1 4                                          MTCHK318
03B0 00  44000456  00319              BSI   L  BITS                                      MTCHK319
03B2 00  44000496  00320              BSI   L  TYPE                                      MTCHK320
03B4 00  668009D8  00321              LDX   I2 RTN       GET "SHOULD BE WORD 2           MTCHK321
03B6 00  C600053B  00322              LD    L2 CWD2                                      MTCHK322
03B8 0   6201      00323              LDX   2 1                                          MTCHK323
03B9 0   6104      00324              LDX   1 4                                          MTCHK324
03BA 00  44000456  00325              BSI   L  BITS                                      MTCHK325
03BC 00  44000496  00326              BSI   L  TYPE                                      MTCHK326
03BE 00  C40009E2  00327              LD    L  BAD1      GET BAD BITS FROM STATUS WD     MTCHK327
03C0 0   6201      00328              LDX   2 1                                          MTCHK328
03C1 0   6104      00329              LDX   1 4                                          MTCHK329
03C2 00  4400046E  00330              BSI   L  FLAGS                                     MTCHK330
03C4 00  44000496  00331              BSI   L  TYPE      MSG 23                          MTCHK331
03C6 00  C40009E3  00332              LD    L  BAD2                                      MTCHK332
03C8 0   6201      00333              LDX   2 1                                          MTCHK333
03C9 0   6104      00334              LDX   1 4                                          MTCHK334
03CA 00  4400046E  00335              BSI   L  FLAGS                                     MTCHK335
03CC 00  44000496  00336              BSI   L  TYPE      MSG 24                          MTCHK336
03CE 00  C40009E4  00337              LD    L  BAD5                                      MTCHK337
03D0 00  4C1803E2  00338              BZ       EMSG                                      MTCHK338
03D2 00  44000496  00339              BSI   L  TYPE      MSG 25                          MTCHK339
03D4 00  C4000AA8  00340              LD    L  SENSE+4   GET "WAS" WORD 5                MTCHK340
03D6 00  44000486  00341              BSI   L  CONV                                      MTCHK341
03D8 00  44000496  00342              BSI   L  TYPE      MSG 26                          MTCHK342
03DA 00  5C7507EE  00343              RLD   LA /07EE     "SHOULD BE" WORD 5              MTCHK343
03DC 00  44000486  00344              BSI   L  CONV                                      MTCHK344
03DE 00  44000496  00345              BSI   L  TYPE      MSG 27                          MTCHK345
03E0 00  6D0009E4  00346              STX   L1 BAD5      ZERO WORD 5 FLAG                MTCHK346
03E2 0   6307      00347     EMSG     LDX   3 7          MSG 7                           MTCHK347
03E3 00  44000496  00348              BSI   L  TYPE      RESTORE INDEX REGS              MTCHK348
03E5 00  5C250000  00349     REGF     RLD   L1 *-*                                       MTCHK349
03E7 00  5C450000  00350              RLD   L2 *-*                                       MTCHK350
03E9 00  5C650000  00351              RLD   L3 *-*                                       MTCHK351
03EB 00  C40009D8  00352              LD    L  RTN                                       MTCHK352
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03ED 0  5B95        00353              RCPY  4 A        DISPLAY ROUTINE NUMBER      MTCHK353
03EE 00 0C0009CC    00354     OPR      XIO   L RDSW     READ SWITCHES               MTCHK354
03F0 00 C40009DF    00355              LD    L SWIT                                 MTCHK355
03F2 00 4C2802E6    00356              BN      ADVAN    IF BIT 0, BYPASS ROUTINE    MTCHK356
03F4 0  1001        00357              SLA     1        IF BIT 1 IS ON, CONTINUE    MTCHK357
03F5 00 4C2802D9    00358              BN      GO                                   MTCHK358
03F7 0  70F6        00359              MDX     OPR      GO WAIT FOR OPERATOR        MTCHK359
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                        00361      *********************************************************MTCHK361
                        00362      *          COMPARE THE READ BUFFER W/WRITE BUFFER         *MTCHK362
                        00363      *********************************************************MTCHK363
03F8 0   0000          00364  RCOMP DC        *-*            ENTRY POINT                 MTCHK364
03F9 00  668009D9      00365        LDX   I2 WORDS           GET AMOUNT TO CHECK         MTCHK365
03FB 00  D40009E1      00366        STO   L  FIRST          SET FIRST COMP FLAG POSITIVEMTCHK366
03FD 00  C600CFFF      00367        LD    L2 RBUF-1         GET THE WORD READ AND       MTCHK367
03FF 0   5B95          00368        RCPY  4  A              SAVE IT IN XR4              MTCHK368
0400 00  C6001FFF      00369        LD    L2 WBUF-1         GET THE SHOULD BE WORD AND  MTCHK369
0402 0   58F6          00370        REOR  A  4              COMPARE THEM                MTCHK370
0403 00  4C200413      00371        BNZ   L  ERROR          BRANCH IF ERROR             MTCHK371
0405 0   72FF          00372  NXT   MDX   2  -1             DROP COUNTER                MTCHK372
0406 0   70F6          00373        MDX      RCOMP+5        GO COMPARE NEXT WORD        MTCHK373
0407 00  668009D9      00374        LDX   I2 WORDS          GET AMOUNT TO CLEAR         MTCHK374
0409 0   5BF3          00375        RSUB  A  A              CLEAR ACC                   MTCHK375
040A 00  D6000FFF      00376        STO   L2 RBUF-1         CLEAR THE READ BUFFER       MTCHK376
040C 0   72FF          00377        MDX   2  -1             DROP THE COUNTER            MTCHK377
040D 0   70FC          00378        MDX      *-4            LOOP TIL DONE               MTCHK378
040E 00  C40009D8      00379        LD    L  RTN                                        MTCHK379
0410 0   5B95          00380        RCPY  4  A              DISPLAY ROUTINE NUMBER      MTCHK380
0411 00  4C8003F8      00381        BSC   I  RCOMP          GO BACK TO CALLER           MTCHK381
                        00382      *********************************************************MTCHK382
                        00383      *                                                         MTCHK383
                        00384      *          DATA COMPARE ERROR ON READ                     MTCHK384
                        00385      *                                                         MTCHK385
                        00386      *********************************************************MTCHK386
0413 0   6930          00387  ERROR STX   1  REG+1          SAVE XR1, 2, 3              MTCHK387
0414 0   6A31          00388        STX   2  REG+3                                      MTCHK388
0415 0   6B32          00389        STX   3  REG+5                                      MTCHK389
0416 00  C40009E1      00390        LD    L  FIRST          SEE IF FIRST COMP ERROR THISMTCHK390
0418 00  4C18042B      00391        BZ       NO                                         MTCHK391
041A 0   5BF3          00392        RSUB  A  A              CLEAR FLAG TO ZERO          MTCHK392
041B 00  D40009E1      00393        STO   L  FIRST                                      MTCHK393
041D 00  740109D7      00394        MDM   L  CERRS,+1       INCREMENT COMP ERR COUNT    MTCHK394
041F 0   1000          00395        NOP                     JUST IN CASE OF OVERFLOW    MTCHK395
0420 0   6305          00396        LDX   3  5              POINTER FOR MESSAGE 5       MTCHK396
0421 00  44000496      00397        BSI   L  TYPE                                       MTCHK397
0423 00  C40009D8      00398        LD    L  RTN            GET ROUTINE NUMBER          MTCHK398
0425 00  44000486      00399        BSI   L  CONV                                       MTCHK399
0427 00  44000496      00400        BSI   L  TYPE           MSG 6                       MTCHK400
0429 00  44000496      00401        BSI   L  TYPE           MESSAGE 7                   MTCHK401
042B 0   6308          00402  NO    LDX   3  8              SET MSG POINTER             MTCHK402
042C 00  44000496      00403        BSI   L  TYPE           MESSAGE 8                   MTCHK403
042E 0   C017          00404        LD       REG+3          GET WORD NUMBER             MTCHK404
042F 00  44000486      00405        BSI   L  CONV                                       MTCHK405
0431 00  44000496      00406        BSI   L  TYPE           MSG 9                       MTCHK406
0433 00  66800446      00407        LDX   I2 REG+3          RESTORE DATA WORD POINTER   MTCHK407
0435 00  C6000FFF      00408        LD    L2 RBUF-1         GET BAD WORD                MTCHK408
0437 00  44000486      00409        BSI   L  CONV                                       MTCHK409
0439 00  44000496      00410        BSI   L  TYPE           MSG 10                      MTCHK410
043B 00  66800446      00411        LDX   I2 REG+3          RESTORE DATA WORD POINTER   MTCHK411
043D 00  C6001FFF      00412        LD    L2 WBUF-1         GET "SHOULD BE" WORD        MTCHK412
043F 00  44000486      00413        BSI   L  CONV                                       MTCHK413
0441 00  44000496      00414        BSI   L  TYPE           MSG 11                      MTCHK414
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0443 00 5C250000 00415     REG   RLD  L1  *-*         RESTORE INDEX REGS             MTCHK415
0445 00 5C450000 00416           RLD  L2  *-*                                        MTCHK416
0447 00 5C650000 00417           RLD  L3  *-*                                        MTCHK417
0449 00 C40009D8 00418           LD   L   RTN                                        MTCHK418
044B 0  5B95     00419           RCPY 4 A             DISPLAY ROUTINE NUMBER         MTCHK419
044C 00 0C0009CC 00420     BYPAS XIO  L   RDSW        READ SWITCHES                  MTCHK420
044E 00 C40009DF 00421           LD   L   SWIT                                       MTCHK421
0450 00 4C280407 00422           BN       NXT+2       BYPASS COMPARE IF BIT 0 OR     MTCHK422
0452 0  1001     00423           SLA      1           CHK BIT 1                      MTCHK423
0453 00 4C280405 00424           BN       NXT         GO COMPARE NEXT WORD IF BIT    MTCHK424
0455 0  70F6     00425           MDX      BYPAS       OR GO WAIT FOR OPERATOR        MTCHK425
              00426     ****************************************************MTCHK426
              00427     *     CONVERT BITS IN ACC TO BINARY AND PUT IN MSG   MTCHK427
              00428     ****************************************************MTCHK428
0456 0  0000     00429     BITS  DC       *-*         ENTRY POINT                    MTCHK429
0457 0  5B95     00430           RCPY 4 A             HOLD ACC IN XR4                MTCHK430
0458 00 4C28045D 00431           BN       UNO                                        MTCHK431
045A 00 C40009AA 00432           LD   L   HEX         GET A "0"                      MTCHK432
045C 0  7002     00433           MDX      SET                                        MTCHK433
045D 00 C40009AB 00434     UNO   LD   L   HEX+1       GET A "1"                      MTCHK434
045F 00 D6000000 00435     SET   STO  L2  *-*         ADR OF DEST IS SET UP BY "TYMTCHK435
0461 0  7201     00436           MDX  2 1             INCREMENT POINTER FOR NEXT BMTCHK436
0462 0  71FF     00437           MDX  1 -1            DROP COUNTER                   MTCHK437
0463 0  7007     00438           MDX      NBIT                                       MTCHK438
0464 0  5A75     00439           RCPY A 2             CHECK FOR END OF WORD          MTCHK439
0465 00 5C760014 00440           REOR LA 20                                          MTCHK440
0467 00 4C980456 00441           BSC  I   BITS,+-     IF 0, GO BACK TO CALLER        MTCHK441
0469 0  6104     00442           LDX  1 4             SET UP FOR NEXT 4 BITS         MTCHK442
046A 0  5841     00443           RINC 2               INCREMENT POINTER TO SKIP A    MTCHK443
046B 0  58F5     00444     NBIT  RCPY A 4             GET BACK WHAT'S LEFT           MTCHK444
046C 0  1001     00445           SLA      1           SHIFT NEXT BIT INTO POSITIONMTCHK445
046D 0  70E9     00446           MDX      BITS+1                                     MTCHK446
              00447     ****************************************************MTCHK447
              00448     *     SUBROUTINE TO CONVERT BAD STATUS WORD BITS     MTCHK448
              00449     *               TO A '*' AND PUT IN MSG TO TYPE      MTCHK449
              00450     ****************************************************MTCHK450
046E 0  0000     00451     FLAGS DC       *-*         ENTRY POINT                    MTCHK451
046F 0  5B95     00452           RCPY 4 A             HOLD ACC IN XR 4               MTCHK452
0470 00 4C280475 00453           BN       ERBIT                                      MTCHK453
0472 00 C40009BA 00454           LD   L   SPACE       GET A SPACE CHAR               MTCHK454
0474 0  7002     00455           MDX      SETA                                       MTCHK455
0475 00 C40009BB 00456     ERBIT LD   L   SPACE+1     GET A FLAG (*)                 MTCHK456
0477 00 D6000000 00457     SETA  STO  L2  *-*         ADR INSERTED BY 'TYPE'         MTCHK457
0479 0  7201     00458           MDX  2 1             STEP POINTER                   MTCHK458
047A 0  71FF     00459           MDX  1 -1            DROP COUNTER                   MTCHK459
047B 0  7007     00460           MDX      NXBIT       GO CHK NEXT BIT                MTCHK460
047C 0  5A75     00461           RCPY A 2                                            MTCHK461
047D 00 5C760014 00462           REOR LA 20           CHK IF DONE                    MTCHK462
047F 00 4C98046E 00463           BSC  I   FLAGS,+-                                   MTCHK463
0481 0  6104     00464           LDX  1 4                                            MTCHK464
0482 0  5841     00465           RINC 2                                              MTCHK465
0483 0  58F5     00466     NXBIT RCPY A 4             GET BACK WHAT'S LEFT           MTCHK466
0484 0  1001     00467           SLA      1                                          MTCHK467
0485 0  70E9     00468           MDX      FLAGS+1                                    MTCHK468
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                   00469     ****************************************************MTCHK469
                   00470     *        CONVERT ACC TO HEX BITS + PUT IN MESSAGE      MTCHK470
                   00471     ****************************************************MTCHK471
0486 0  0000       00472     CONV  DC       *-*          ENTRY POINT                MTCHK472
0487 0  6104       00473           LDX   1 4            4 = NO OF CHAR TO CONVERT   MTCHK473
0488 0  5B95       00474           RCPY  4 A            HOLD DATA IN XR 4          MTCHK474
0489 00 5C74000F   00475           RAND LA /000F        KEEP ONLY RIGHT FOUR BITS  MTCHK475
048B 0  5BC5       00476           RCPY  2 A            PUT BITS IN POINTER AND    MTCHK476
048C 00 C60009AA   00477           LD    L2 HEX         GET CONVERTED CHAR AND     MTCHK477
048E 00 D5000000   00478     SETUP STO  L1 *-*          PUT IN MESSAGE             MTCHK478
0490 0  58F5       00479           RCPY  A 4            GET BACK WHAT'S LEFT        MTCHK479
0491 0  1804       00480           SRA      4            SHIFT OUT THE USED BITS    MTCHK480
0492 0  71FF       00481           MDX   1 -1           DROP THE COUNTER           MTCHK481
0493 0  70F4       00482           MDX      CONV+2      GO DO THE REST, IF ANY     MTCHK482
0494 00 4C800486   00483           BSC   I CONV         GO BACK TO CALLER          MTCHK483
                   00484     ****************************************************** MTCHK484
                   00485     *                                                    * MTCHK485
                   00486     *        TYPE MESSAGE ON VDT                          * MTCHK486
                   00487     *                                                    * MTCHK487
                   00488     ****************************************************** MTCHK488
0496 0  0000       00489     TYPE  DC       *-*          ENTRY POINT                MTCHK489
0497 00 C7000553   00490           LD    L3 MSG         GET ADR OF MSG TO TYPE     MTCHK490
0499 00 D40009CA   00491           STO   L  VDT         PUT IN IOCC                MTCHK491
049B 00 C7000554   00492           LD    L3 MSG+1       ADR FOR CONVERTED SWITCHES MTCHK492
049D 0  5872       00493           RDEC  A                                         MTCHK493
049E 00 D400048F   00494           STO   L  SETUP+1     PUT IN CONVERSION RTN FOR LAMTCHK494
04A0 00 D4000460   00495           STO   L  SET+1                                  MTCHK495
04A2 00 D4000478   00496           STO   L  SETA+1                                 MTCHK496
04A4 00 C7000574   00497           LD    L3 CNT         GET CHAR CT OF MSG TO TYPE MTCHK497
04A6 0  5BA5       00498           RCPY  1 A            PUT IT IN COUNTER          MTCHK498
04A7 0  5BF3       00499     WRITE RSUB  A A            CLEAR ACC                  MTCHK499
04A8 00 D40009DB   00500           STO   L  RFLAG       CLEAR RESPONSE FLAG        MTCHK500
04AA 00 0C0009CA   00501           XIO   L  VDT         WRITE CHAR TO VDT          MTCHK501
04AC 00 740109CA   00502           MDM   L  VDT,+1      INCREMENT ADDRESS FOR NEXT CMTCHK502
04AE 00 C40009DB   00503     RESP  LD    L  RFLAG       CHK FOR VDT RESPONSE       MTCHK503
04B0 0  4810       00504           SKP      -            SKIP IF NEG               MTCHK504
04B1 0  70FC       00505           MDX      RESP         OR GO CHECK IT AGAIN      MTCHK505
04B2 0  71FF       00506           MDX   1 -1           DROP COUNTER               MTCHK506
04B3 0  70F3       00507           MDX      WRITE        TYPE NEXT CHAR            MTCHK507
04B4 0  7301       00508           MDX   3 +1           STEP TABLE DISP POINTER    MTCHK508
04B5 00 4C800496   00509           BSC   I TYPE         GO BACK TO CALLER          MTCHK509
                   00510     ****************************************************** MTCHK510
                   00511     *                                                    * MTCHK511
                   00512     *        INTERRUPT SUBROUTINES                        * MTCHK512
                   00513     *                                                    * MTCHK513
                   00514     ****************************************************** MTCHK514
04B7 0  0000       00515     INT3  DC       *-*          ENTRY POINT LVL 3 (MTA)    MTCHK515
04B8 0  4023       00516           BSI      SAVE                                   MTCHK516
04B9 00 0C0009C6   00517           XIO   L  SILSW                                  MTCHK517
04BB 00 D40009E0   00518           STO   L  ILSW3       SAVE IT                    MTCHK518
04BD 0  1005       00519           SLA      5            CHK FOR END OP BIT 5      MTCHK519
04BE 00 4C2804C8   00520, '        BN       ENDOP        GO RESET IT               MTCHK520
04C0 0  1001       00521           SLA      1            OR CHK FOR PROG INT BIT 6 MTCHK521
04C1 00 4C2804C6   00522           BN       PROG         GO RESET IT               MTCHK522
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04C3 00 C40009E0 00523           LD   L  ILSW3    GET ILSW BACK              MTCHK523
04C5 0  301E     00524           DC      /301E    ILSW ERROR WAIT            MTCHK524
04C6 00 0C0009C0 00525  PROG XIO L  RSTPR  RESET PROG INT             MTCHK525
04C8 00 0C0009BE 00526  ENDOP XIO L  RST    RESET ENDOP INT            MTCHK526
04CA 0  4018     00527           BSI     RESTO    RESTORE REGS               MTCHK527
04CB 00 4CC004B7 00528           BOSC I  INT3     GO BACK                    MTCHK528
                 00529  *                                                    MTCHK529
04CD 0  0000     00530  INT4 DC      *-*      ENTRY POINT LVL 4 (CONS OR VMTCHK530
04CE 0  400D     00531           BSI     SAVE                                MTCHK531
04CF 00 0C0009C8 00532           XIO  L  SDWR     RESET THE INTERRUPT        MTCHK532
04D1 00 D40009DB 00533           STO  L  RFLAG    SET RESPONSE FLAG          MTCHK533
04D3 0  1002     00534           SLA     2                                   MTCHK534
04D4 0  4810     00535           SKP     -        SKIP IF CONSOLE INTERRUPT  MTCHK535
04D5 0  7003     00536           MDX     TUBE     OR GO SERVICE VDT          MTCHK536
04D6 0  400C     00537           BSI     RESTO                               MTCHK537
04D7 00 4C400221 00538           BOSC L  CONS     GO CHANGE MODE             MTCHK538
04D9 0  4009     00539  TUBE BSI     RESTO                               MTCHK539
04DA 00 4CC004CD 00540           BOSC I  INT4     GO BACK                    MTCHK540
                 00541  *******************************************************MTCHK541
04DC 0  0000     00542  SAVE DC      *-*      ENTRY POINT                MTCHK542
04DD 0  D810     00543           STD     SAVA     SAVE ACC, EXT, XR1, 2, 3... MTCHK543
04DE 0  6911     00544           STX  1  XR1                                 MTCHK544
04DF 0  6A11     00545           STX  2  XR2                                 MTCHK545
04E0 0  6B11     00546           STX  3  XR3                                 MTCHK546
04E1 00 4C8004DC 00547           BSC  I  SAVE     GO GACK TO CALLER          MTCHK547
                 00548  *******************************************************MTCHK548
04E3 0  0000     00549  RESTO DC      *-*      ENTRY POINT                MTCHK549
04E4 00 658004F0 00550           LDX  I1 XR1     RESTORE XR1, 2, 3, ACC AND EMTCHK550
04E6 00 668004F1 00551           LDX  I2 XR2                                 MTCHK551
04E8 00 678004F2 00552           LDX  I3 XR3                                 MTCHK552
04EA 0  C803     00553           LDD     SAVA                                MTCHK553
04EB 00 4C8004E3 00554           BSC  I  RESTO    GO BACK TO CALLER          MTCHK554
                 00555  *******************************************************MTCHK555
04EE 0  0000     00556           BSS  E  0        SAVE THIS AREA FOR REGS    MTCHK556
04EE 0  0000     00557  SAVA DC      *-*                                 MTCHK557
04EF 0  0000     00558           DC      *-*                                 MTCHK558
04F0 0  0000     00559  XR1  DC      *-*                                 MTCHK559
04F1 0  0000     00560  XR2  DC      *-*                                 MTCHK560
04F2 0  0000     00561  XR3  DC      *-*                                 MTCHK561
                 00562  *******************************************************MTCHK562
                 00563  ****************   TABLES   ***********************MTCHK563
                 00564  *******************************************************MTCHK564
04F3 0  09F0     00565  RTNAD DC      RTN0     ADDRESS FOR ALT COMMAND CHAIMTCHK565
04F4 0  09F7     00566           DC      RTN1                                MTCHK566
04F5 0  09FB     00567           DC      RTN2                                MTCHK567
04F6 0  09FF     00568           DC      RTN3                                MTCHK568
04F7 0  0A03     00569           DC      RTN4                                MTCHK569
04F8 0  0A07     00570           DC      RTN5                                MTCHK570
04F9 0  0A0B     00571           DC      RTN6                                MTCHK571
04FA 0  0A0F     00572           DC      RTN7                                MTCHK572
04FB 0  0A15     00573           DC      RTN8                                MTCHK573
04FC 0  0A22     00574           DC      RTN9                                MTCHK574
04FD 0  0A2C     00575           DC      RTNA                                MTCHK575
04FE 0  0A30     00576           DC      RTNB                                MTCHK576
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04FF 0	0A35	00577		DC	RTNC	MTCHK577
0500 0	0A4D	00578		DC	RTND	MTCHK578
0501 0	0A59	00579		DC	RTNE	MTCHK579
0502 0	0A61	00580		DC	RTNF	MTCHK580
0503 0	0A68	00581		DC	RTN10	MTCHK581
0504 0	0A6D	00582		DC	RTN11	MTCHK582
0505 0	0A74	00583		DC	RTN12	MTCHK583
0506 0	0A81	00584		DC	RTN13	MTCHK584
0507 0	0A86	00585		DC	RTN14	MTCHK585
0508 0	0A90	00586		DC	RTN15	MTCHK586
0509 0	0A97	00587		DC	RTN16	MTCHK587
050A 0	0A9E	00588		DC	RTN17	MTCHK588
050B 0	02F2	00589	ROUTN DC		RUT0 ADDRESS OF RUT0	MTCHK589
050C 0	02F4	00590		DC	RUT1	MTCHK590
050D 0	02F6	00591		DC	RUT2	MTCHK591
050E 0	02F8	00592		DC	RUT3	MTCHK592
050F 0	02FA	00593		DC	RUT4	MTCHK593
0510 0	02FC	00594		DC	RUT5	MTCHK594
0511 0	02FE	00595		DC	RUT6	MTCHK595
0512 0	0300	00596		DC	RUT7	MTCHK596
0513 0	0302	00597		DC	RUT8	MTCHK597
0514 0	0304	00598		DC	RUT9	MTCHK598
0515 0	030B	00599		DC	RUTA	MTCHK599
0516 0	0311	00600		DC	RUTB	MTCHK600
0517 0	032B	00601		DC	RUTC	MTCHK601
0518 0	032D	00602		DC	RUTD	MTCHK602
0519 0	0331	00603		DC	RUTE	MTCHK603
051A 0	0339	00604		DC	RUTF	MTCHK604
051B 0	033B	00605		DC	RUT10	MTCHK605
051C 0	033D	00606		DC	RUT11	MTCHK606
051D 0	033F	00607		DC	RUT12	MTCHK607
051E 0	0346	00608		DC	RUT13	MTCHK608
051F 0	0353	00609		DC	RUT14	MTCHK609
0520 0	0371	00610		DC	RUT15	MTCHK610
0521 0	037D	00611		DC	RUT16	MTCHK611
0522 0	0386	00612		DC	RUT17	MTCHK612
0523 0	4000	00613	CWD1 DC		/4000 CHECK WORD FOR STATUS WD 1	MTCHK613
0524 0	4000	00614		DC	/4000 FOR RTN 1	MTCHK614
0525 0	4000	00615		DC	/4000 FOR RTN 2	MTCHK615
0526 0	4000	00616		DC	/4000 3	MTCHK616
0527 0	4000	00617		DC	/4000 4	MTCHK617
0528 0	C040	00618		DC	/C040 5	MTCHK618
0529 0	4000	00619		DC	/4000 6	MTCHK619
052A 0	4000	00620		DC	/4000 7	MTCHK620
052B 0	4000	00621		DC	/4000 8	MTCHK621
052C 0	4000	00622		DC	/4000 9	MTCHK622
052D 0	4000	00623		DC	/4000 A	MTCHK623
052E 0	4000	00624		DC	/4000 B	MTCHK624
052F 0	4000	00625		DC	/4000 C	MTCHK625
0530 0	4000	00626		DC	/4000 D	MTCHK626
0531 0	C800	00627		DC	/C800 E	MTCHK627
0532 0	C840	00628		DC	/C840 F	MTCHK628
0533 0	C010	00629		DC	/C010 10	MTCHK629
0534 0	C820	00630		DC	/C820 11	MTCHK630

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0535 0   4000      00631           DC      /4000     12                          MTCHK631
0536 0   4000      00632           DC      /4000     13                          MTCHK632
0537 0   4000      00633           DC      /4000     14                          MTCHK633
0538 0   4000      00634           DC      /4000     15                          MTCHK634
0539 0   4000      00635           DC      /4000     16                          MTCHK635
053A 0   4000      00636           DC      /4000     17                          MTCHK636
053B 0   2370      00637   CWD2    DC      /2370     RTN 0, EXPECTED STATUS WORD MTCHK637
053C 0   0310      00638           DC      /0310     1                           MTCHK638
053D 0   0310      00639           DC      /0310     2                           MTCHK639
053E 0   0310      00640           DC      /0310     3                           MTCHK640
053F 0   0320      00641           DC      /0320     4                           MTCHK641
0540 0   2320      00642           DC      /2320     5                           MTCHK642
0541 0   2320      00643           DC      /2320     6                           MTCHK643
0542 0   0600      00644           DC      /0600     7                           MTCHK644
0543 0   0320      00645           DC      /0320     8                           MTCHK645
0544 0   0320      00646           DC      /0320     9                           MTCHK646
0545 0   0320      00647           DC      /0320     A                           MTCHK647
0546 0   0340      00648           DC      /0340     B                           MTCHK648
0547 0   0600      00649           DC      /0600     C                           MTCHK649
0548 0   0340      00650           DC      /0340     D                           MTCHK650
0549 0   0320      00651           DC      /0320     E                           MTCHK651
054A 0   0320      00652           DC      /0320     F                           MTCHK652
054B 0   0320      00653           DC      /0320     10                          MTCHK653
054C 0   0320      00654           DC      /0320     11                          MTCHK654
054D 0   0310      00655           DC      /0310     12                          MTCHK655
054E 0   0320      00656           DC      /0320     13                          MTCHK656
054F 0   0340      00657           DC      /0340     14                          MTCHK657
0550 0   0310      00658           DC      /0310     15                          MTCHK658
0551 0   0320      00659           DC      /0320     16                          MTCHK659
0552 0   0600      00660           DC      /0600     17                          MTCHK660
                   00661   *********************************************       MTCHK661
                   00662   *                                          *       MTCHK662
                   00663   *   TABLE OF ADDRESSES AND CHAR COUNTS OF MSGS  *   MTCHK663
                   00664   *                                          *       MTCHK664
                   00665   *********************************************       MTCHK665
0553 0   0595      00666   MSG     DC      MSG0      ADDRESS OF MESSAGE 0        MTCHK666
0554 0   071F      00667           DC      MSG1                                  MTCHK667
0555 0   0757      00668           DC      MSG2                                  MTCHK668
0556 0   0766      00669           DC      MSG3                                  MTCHK669
0557 0   0784      00670           DC      MSG4                                  MTCHK670
0558 0   07A4      00671           DC      MSG5                                  MTCHK671
0559 0   07C7      00672           DC      MSG6                                  MTCHK672
055A 0   07CD      00673           DC      MSG7                                  MTCHK673
055B 0   0800      00674           DC      MSG8                                  MTCHK674
055C 0   0806      00675           DC      MSG9                                  MTCHK675
055D 0   0813      00676           DC      MSG10                                 MTCHK676
055E 0   081F      00677           DC      MSG11                                 MTCHK677
055F 0   0824      00678           DC      MSG12                                 MTCHK678
0560 0   0825      00679           DC      MSG13                                 MTCHK679
0561 0   0826      00680           DC      MSG14                                 MTCHK680
0562 0   0827      00681           DC      MSG15                                 MTCHK681
0563 0   0828      00682           DC      MSG16                                 MTCHK682
0564 0   0829      00683           DC      MSG17                                 MTCHK683
0565 0   0849      00684           DC      MSG18                                 MTCHK684
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0566 0   0860      00685          DC      MSG19                                      MTCHK685
0567 0   087C      00686          DC      MSG20                                      MTCHK686
0568 0   08A2      00687          DC      MSG21                                      MTCHK687
0569 0   08BE      00688          DC      MSG22                                      MTCHK688
056A 0   08E4      00689          DC      MSG23                                      MTCHK689
056B 0   0900      00690          DC      MSG24                                      MTCHK690
056C 0   0914      00691          DC      MSG25                                      MTCHK691
056D 0   0924      00692          DC      MSG26                                      MTCHK692
056E 0   0930      00693          DC      MSG27                                      MTCHK693
056F 0   0935      00694          DC      MSG28                                      MTCHK694
0570 0   095C      00695          DC      MSG29                                      MTCHK695
0571 0   0974      00696          DC      MSG30                                      MTCHK696
0572 0   098C      00697          DC      MSG31                                      MTCHK697
0573 0   09A4      00698          DC      MSG32                                      MTCHK698
0574 0   018A      00699   CNT    DC      394       CHAR COUNT OF MSG 0              MTCHK699
0575 0   0038      00700          DC      56        1                                MTCHK700
0576 0   000F      00701          DC      15        2                                MTCHK701
0577 0   001E      00702          DC      30        3                                MTCHK702
0578 0   0020      00703          DC      32        CHAR COUNT OF MSG 4              MTCHK703
0579 0   0023      00704          DC      35        CHAR COUNT OF MSG 5              MTCHK704
057A 0   0006      00705          DC      6         6                                MTCHK705
057B 0   0033      00706          DC      51        7                                MTCHK706
057C 0   0006      00707          DC      6         8                                MTCHK707
057D 0   000D      00708          DC      13        9                                MTCHK708
057E 0   000C      00709          DC      12        10                               MTCHK709
057F 0   0005      00710          DC      5         11                               MTCHK710
0580 0   0001      00711          DC      1         12                               MTCHK711
0581 0   0001      00712          DC      1         13                               MTCHK712
0582 0   0001      00713          DC      1         14                               MTCHK713
0583 0   0001      00714          DC      1         15                               MTCHK714
0584 0   0001      00715          DC      1         16                               MTCHK715
0585 0   0020      00716          DC      32        17                               MTCHK716
0586 0   0017      00717          DC      23        18                               MTCHK717
0587 0   001C      00718          DC      28        19                               MTCHK718
0588 0   0026      00719          DC      38        20                               MTCHK719
0589 0   001C      00720          DC      28        21                               MTCHK720
058A 0   0026      00721          DC      38        22                               MTCHK721
058B 0   001C      00722          DC      28        23                               MTCHK722
058C 0   0014      00723          DC      20        24                               MTCHK723
058D 0   0010      00724          DC      16        25                               MTCHK724
058E 0   000C      00725          DC      12        26                               MTCHK725
058F 0   0005      00726          DC      5         27                               MTCHK726
0590 0   0027      00727          DC      39        28                               MTCHK727
0591 0   0018      00728          DC      24        29                               MTCHK728
0592 0   0018      00729          DC      24        30                               MTCHK729
0593 0   0018      00730          DC      24        31                               MTCHK730
0594 0   0006      00731          DC      6         32                               MTCHK731
                   00732   ***********************************************           MTCHK732
                   00733   *                                              *          MTCHK733
                   00734   *        MESSAGES FOR VDT                      *          MTCHK734
                   00735   *                                              *          MTCHK735
                   00736   ***********************************************           MTCHK736
0595     0022      00737   MSG0   DMES    'TCHI   MTCHK   V1M2 'R 'R 'MTCHK737
05A6     0024      00738          DMES     PROG   WILL   CHECK   CH ' MTCHK738
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05B8     0024     00739          DMES    I  M A G   T A P E   A D A P T O R  * MTCHK739
05CA     0020     00740          DMES       A N D   T R A N S P O R T . *R *   MTCHK740
05DA     0020     00741          DMES    A L L   S T A T U S   W O R D   *     MTCHK741
05EA     0020     00742          DMES    A N D   D A T A   E R R O R S   *     MTCHK742
05FA     0020     00743          DMES    W I L L   B E   L O G G E D . *R *    MTCHK743
060A     0024     00744          DMES    R U N   T I M E   F O R   1   P A S * MTCHK744
061C     0020     00745          DMES    S   O N   1   X P O R T   I S   *     MTCHK745
062C     0024     00746          DMES    A P P R O X   7   M I N U T E S . *R *MTCHK746
063E     0024     00747          DMES    T O   C H A N G E   M O D E   O R   * MTCHK747
0650     0024     00748          DMES    R E S T A R T ;   P R E S S   C O N * MTCHK748
0662     0022     00749          DMES    S O L E   I N T E R R U P T . *R *R * MTCHK749
0673     0024     00750          DMES    W A I T S : *R 3 0 0 6   -   W A I T *MTCHK750
0685     0024     00751          DMES    I N G   F O R   I N T E R R U P T   * MTCHK751
0697     0024     00752          DMES    F R O M   S E L E C T   X P O R T *R *MTCHK752
06A9     0026     00753          DMES    3 0 0 7   -   W A I T I N G   F O R   MTCHK753
06BC     0024     00754          DMES    I N T E R R U P T   F R O M   C O M * MTCHK754
06CE     0016     00755          DMES    M A N D   C H A I N *R *              MTCHK755
06D9     0024     00756          DMES    3 0 1 E   -   I L S W   E R R O R ; * MTCHK756
06EB     0024     00757          DMES    I L S W   B I T   I S   I N   A C * MTCHK757
06FD     0022     00758          DMES    C *R *T B I T   5   I S   E N D O P * MTCHK758
070E     0022     00759          DMES    *R *T B I T   6   I S   P R O G *R *R MTCHK759
071F     0024     00760   MSG1   DMES       E N T E R   M O D E   I N   S W * MTCHK760
0731     0026     00761          DMES    1 3   ( O N   =   P E ,   O F F   = MTCHK761
0744     0002     00762          DMES    *                                    MTCHK762
0745     0024     00763          DMES    N R Z I )   - P R E S S   S T A R T *EMTCHK763
0757     001E     00764   MSG2   DMES    *R M O D E   E N T E R E D :   *      MTCHK764
0766     0024     00765   MSG3   DMES    P E   -   S T A R T   C H I   M A G * MTCHK765
0778     0018     00766          DMES       T A P E   C H E C K *R *E          MTCHK766
0784     0022     00767   MSG4   DMES    N R Z I   -   S T A R T   C H I   *   MTCHK767
0795     001E     00768          DMES    M A G   T A P E   C H E C K *R *E     MTCHK768
07A4     0022     00769   MSG5   DMES    * * * * * *   D A T A   C O M P A R E   *   MTCHK769
07B5     0024     00770          DMES    E R R O R   * * * *   R O U T I N E   / * MTCHK770
07C7     000C     00771   MSG6   DMES    X X X X *R *R *E                      MTCHK771
07CD     0024     00772   MSG7   DMES    T O   C O N T I N U E ,   T U R N   * MTCHK772
07DF     0024     00773          DMES    O N   S W   1 ;   T O   B Y P A S S * MTCHK773
07F1     001E     00774          DMES       T U R N   O N   S W   0 *R *R *E   MTCHK774
0800     000C     00775   MSG8   DMES    W O R D   / / *E                      MTCHK775
0806     001A     00776   MSG9   DMES    X X X X           W A S   / / *E      MTCHK776
0813     0018     00777   MSG10  DMES    X X X X   - -   S / B   / *E          MTCHK777
081F     000A     00778   MSG11  DMES    X X X X *R *E                         MTCHK778
0824     0002     00779   MSG12  DMES    X X *E                                MTCHK779
0825     0002     00780   MSG13  DMES    X X *E                                MTCHK780
0826     0002     00781   MSG14  DMES    X X *E                                MTCHK781
0827     0002     00782   MSG15  DMES    X X *E                                MTCHK782
0828     0002     00783   MSG16  DMES    X X *E                                MTCHK783
0829     0022     00784   MSG17  DMES    *R           * * * * * *   F L A G G E D   * MTCHK784
083A     001E     00785          DMES    E R R O R   * * * * * *   R T N   / *E MTCHK785
0849     0022     00786   MSG18  DMES    X X X X *R S T A T U S   W O R D   *  MTCHK786
085A     000C     00787          DMES    1   W A S   *E                        MTCHK787
0860     001E     00788   MSG19  DMES    X X X X   X X X X   X X X X   *       MTCHK788
086F     001A     00789          DMES    X X X X   - -   2   W A S   *E        MTCHK789
087C     001E     00790   MSG20  DMES    X X X X   X X X X   X X X X   *       MTCHK790
088B     0022     00791          DMES    X X X X *R           W O R D   *      MTCHK791
089C     000C     00792          DMES    1   S / B   *E                        MTCHK792
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08A2    001E      00793      MSG21 DMES      X X X X    X X X X    X X X X    •           MTCHK793
08B1    001A      00794            DMES      X X X X       -- 2    S / B    •E           MTCHK794
08BE    001E      00795      MSG22 DMES      X X X X    X X X X    X X X X    •           MTCHK795
08CD    000A      00796            DMES      X X X X •R •                                MTCHK796
08D2    0024      00797            DMES                                              •EMTCHK797
08E4    001E      00798      MSG23 DMES      + + + +    + + + +    + + + +    •           MTCHK798
08F3    001A      00799            DMES      + + + +                          •E           MTCHK799
0900    001E      00800      MSG24 DMES      + + + +    + + + +    + + + +    •           MTCHK800
090F    000A      00801            DMES      + + + + •R •E                              MTCHK801
0914    0020      00802      MSG25 DMES      B Y T E    C O U N T    W A S    //•E       MTCHK802
0924    0018      00803      MSG26 DMES      X X X X    -- S / B    //•E                 MTCHK803
0930    000A      00804      MSG27 DMES      X X X X •R •E                              MTCHK804
0935    001E      00805      MSG28 DMES                M T C H K    I N T E R R•         MTCHK805
0944    0020      00806            DMES      U P T E D •R N U M B E R    O F    •        MTCHK806
0954    0010      00807            DMES      P A S S E S   / •E                          MTCHK807
095C    0020      00808      MSG29 DMES      X X X X    •R N U M B E R    O F    •        MTCHK808
096C    0010      00809            DMES      R E T R Y S   / •E                          MTCHK809
0974    001C      00810      MSG30 DMES      X X X X •R F L A G G E D    •               MTCHK810
0982    0014      00811            DMES      E R R O R S         //•E                    MTCHK811
098C    001C      00812      MSG31 DMES      X X X X •R C O M P A R E    •               MTCHK812
099A    0014      00813            DMES      E R R O R S         //•E                    MTCHK813
09A4    000C      00814      MSG32 DMES      X X X X  •R •E                              MTCHK814
09AA    0020      00815      HEX   DMES      00112233445566778899AABBCCDDEEFF•E          MTCHK815
09BA    0004      00816      SPACE DMES          **•E                                    MTCHK816
                  00817      ***************************************************          MTCHK817
                  00818      *                                                 *          MTCHK818
                  00819      *                    IOCC•S                        *          MTCHK819
                  00820      *                                                 *          MTCHK820
                  00821      ***************************************************          MTCHK821
09BC    0000      00822            BSS   E  0                                            MTCHK822
09BC 0  09EC      00823      START DC      SELCT                                         MTCHK823
09BD 0  6800      00824            DC      /6800      XIO START FOR AREA 13 (MTA) MTCHK824
09BE 0  0000      00825      RST   DC      *-*                                           MTCHK825
09BF 0  6860      00826            DC      /6860      RESET AREA 13               MTCHK826
09C0 0  0000      00827      RSTPR DC      *-*                                           MTCHK827
09C1 0  6880      00828            DC      /6880      RESET PROG INT              MTCHK828
09C2 0  0000      00829      HALT  DC      *-*                                           MTCHK829
09C3 0  6870      00830            DC      /6870      HALT CONTROLLER             MTCHK830
09C4 0  09E5      00831      READY DC      REW        REWIND COMMAND CHAIN        MTCHK831
09C5 0  6800      00832            DC      /6800      XIO START COMMAND           MTCHK832
09C6 0  0000      00833      SILSW DC      *-*                                           MTCHK833
09C7 0  0300      00834            DC      /0300      SENSE ILSW                  MTCHK834
09C8 0  0000      00835      SDWR  DC      *-*                                           MTCHK835
09C9 0  0F01      00836            DC      /0F01      RESET CONS INT AND VDT      MTCHK836
09CA 0  0000      00837      VDT   DC      *-*        MSG ADR IS PUT HERE         MTCHK837
09CB 0  0900      00838            DC      /0900      WRITE ASCII TO VDT          MTCHK838
09CC 0  09DF      00839      RDSW  DC      SWIT                                          MTCHK839
09CD 0  3A00      00840            DC      /3A00      READ THE DATA ENTRY SWITCHESMTCHK840
                  00841      ****** CONSTANTS *******************************          MTCHK841
                  00842      *                                                           MTCHK842
09CE 0  6BDC      00843      DATA  DC      /6BDC      DATA TO PUT IN WBUF         MTCHK843
09CF 0  FF00      00844            DC      /FF00                                  MTCHK844
09D0 0  6004      00845      BR    DC      /6004      BRANCH INSTRUCTIONS         MTCHK845
09D1 0  4C00      00846            DC      /4C00                                  MTCHK846
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09D2 0  0000      00847    MODE  DC      *-*                                          MTCHK847
09D3 0  0000      00848    XPORT DC      *-*                                          MTCHK848
09D4 0  0000      00849    PASS  DC      *-*      UPDATED AFTER A PASS ON A XPMTCHK849
09D5 0  0000      00850    RETRY DC      *-*      UPDATED AFTER EACH COMMD CHAMTCHK850
09D6 0  0000      00851    FERRS DC      *-*      FLAGGED ERROR COUNT         MTCHK851
09D7 0  0000      00852    CERRS DC      *-*      COMPARE ERROR COUNT         MTCHK852
09D8 0  0000      00853    RTN   DC      *-*                                  MTCHK853
09D9 0  0000      00854    WORDS DC      *-*                                  MTCHK854
09DA 0  0400      00855    RECDS DC      /400                                 MTCHK855
09DB 0  0000      00856    RFLAG DC      *-*                                  MTCHK856
09DC 0  0002      00857    TWO   DC      /2                                   MTCHK857
09DD 0  0010      00858    H0010 DC      /10                                  MTCHK858
09DE 0  0200      00859    H0200 DC      /200                                 MTCHK859
09DF 0  0000      00860    SWIT  DC      *-*      SWITCH STORAGE              MTCHK860
09E0 0  0000      00861    ILSW3 DC      *-*      ILSW SAVED                  MTCHK861
09E1 0  0000      00862    FIRST DC      *-*      SET POS WHEN 1ST WORD COMPARMTCHK862
09E2 0  0000      00863    BAD1  DC      *-*      BAD BITS FROM STATUS WD 1   MTCHK863
09E3 0  0000      00864    BAD2  DC      *-*      BAD BITS FROM STATUS WD 2   MTCHK864
09E4 0  0000      00865    BAD5  DC      *-*      BAD BITS FROM STATUS WD 5   MTCHK865
2000              00866    WBUF  EQU     /3000-/1000  RESERVE FOR WRITE BUFFER MTCHK866
1000              00867    RBUF  EQU     WBUF-/1000   RESERVE FOR READ BUFFER  MTCHK867
                  00868    ******************************************************MTCHK868
                  00869    *          COMMAND CHAIN TO REWIND ALL XPORTS        MTCHK869
                  00870    *          XEQ FROM CONS INT AND RESET START         MTCHK870
                  00871    ******************************************************MTCHK871
09E5 0  1F40      00872    REW   DC      /1F40    SELECT                      MTCHK872
09E6 0  0000      00873          DC      *-*      TRANSPORT NUMBER            MTCHK873
09E7 0  2F50      00874          DC      /2F50    REW W/PROG INTERRUPT        MTCHK874
09E8 0  0000      00875          DC      /0000    IGNORED                     MTCHK875
09E9 0  0400      00876          DC      /0400    SENSE COMMAND               MTCHK876
09EA 0  0007      00877          DC      /7       NO. OF STATUS WORDS         MTCHK877
09EB 0  0AA4      00878          DC      SENSE    WHERE TO PUT THEM           MTCHK878
                  00879    ************************************************** MTCHK879
                  00880    *****                                        *****MTCHK880
                  00881    *****   MTA COMMAND CHAIN                     *****MTCHK881
                  00882    *****      NOTE:   RETRYS ARE PERMITTED ON WRITE *****MTCHK882
                  00883    *****              TO TAPE ONLY.             *****MTCHK883
                  00884    *****              PATCHES ARE SHOWN TO EITHER *****MTCHK884
                  00885    *****              INHIBIT OR PERMIT RETRYS.  *****MTCHK885
                  00886    *****                                        *****MTCHK886
                  00887    *****                                        MTCHK887
                  00888    ************************************************** MTCHK888
09EC 0  1F40      00889    SELCT DC      /1F40    SELECT AREA 13              MTCHK889
09ED 0  0000      00890          DC      *-*      XPORT AND MODE INSERTED HEREMTCHK890
09EE 0  0840      00891          DC      /0840    ALTERNATE COMMAND CHAIN     MTCHK891
09EF 0  0AA0      00892          DC      SNSE     GO SENSE XPORT              MTCHK892
                  00893    ****************************** ROUTINE 0 MTCHK893
09F0 0  2F50      00894    RTN0  DC      /2F50    REWIND XPRT (W/PROG INT)    MTCHK894
09F1 0  0000      00895          DC      *-*                                  MTCHK895
09F2 0  EB40      00896          DC      /EB40    SPACE REV RECORD            MTCHK896
09F3 0  0001      00897          DC      1                                    MTCHK897
09F4 0  0401      00898          DC      /0401    SENSE                       MTCHK898
09F5 0  0051      00899          DC      /51                                  MTCHK899
09F6 0  0AA4      00900          DC      SENSE                                MTCHK900
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09F7 0	5740	00901	RTN1	DC	/5740	WRITE RECORD GAP	MTCHK901
09F8 0	0001	00902		DC	1		MTCHK902
09F9 0	0840	00903		DC	/0840		MTCHK903
09FA 0	0AA0	00904		DC	SNSE		MTCHK904
09FB 0	D740	00905	RTN2	DC	/D740	WRITE FILE MARK	MTCHK905
09FC 0	0001	00906		DC	1		MTCHK906
09FD 0	0840	00907		DC	/0840		MTCHK907
09FE 0	0AA0	00908		DC	SNSE		MTCHK908
09FF 0	5740	00909	RTN3	DC	/5740	WRITE RECORD GAP	MTCHK909
0A00 0	0014	00910		DC	20		MTCHK910
0A01 0	0840	00911		DC	/0840		MTCHK911
0A02 0	0AA0	00912		DC	SNSE		MTCHK912
0A03 0	7B40	00913	RTN4	DC	/7B40	SPACE REVERSE FILE	MTCHK913
0A04 0	0001	00914		DC	1		MTCHK914
0A05 0	0840	00915		DC	/0840		MTCHK915
0A06 0	0AA0	00916		DC	SNSE		MTCHK916
0A07 0	EB40	00917	RTN5	DC	/EB40	SPACE REV RECORD	MTCHK917
0A08 0	0003	00918		DC	3		MTCHK918
0A09 0	0840	00919		DC	/0840		MTCHK919
0A0A 0	0AA0	00920		DC	SNSE		MTCHK920
0A0B 0	7B40	00921	RTN6	DC	/7B40	SPACE REV FILE	MTCHK921
0A0C 0	0001	00922		DC	1		MTCHK922
0A0D 0	0840	00923		DC	/0840		MTCHK923
0A0E 0	0AA0	00924		DC	SNSE		MTCHK924
0A0F 0	D740	00925	RTN7	DC	/D740	WRT FILE MARKS	MTCHK925
0A10 0	0014	00926		DC	20		MTCHK926
0A11 0	2F50	00927		DC	/2F50	REWIND W/PROG INT (ILSW 6)	MTCHK927
0A12 0	0000	00928		DC	*-*		MTCHK928
0A13 0	0840	00929		DC	/0840		MTCHK929
0A14 0	0AA0	00930		DC	SNSE		MTCHK930
0A15 0	0140	00931	RTN8	DC	/140	WRITE TO TAPE	MTCHK931
0A16 0	0800	00932		DC	/800		MTCHK932
0A17 0	2000	00933		DC	WBUF		MTCHK933
0A18 0	0140	00934		DC	/140	WRT RECORD TO EDIT	MTCHK934
0A19 0	07FE	00935		DC	/7FE	BYTE COUNT	MTCHK935
0A1A 0	2004	00936		DC	WBUF+4		MTCHK936
0A1B 0	0140	00937		DC	/140	WRT	MTCHK937
0A1C 0	0800	00938		DC	/800		MTCHK938
0A1D 0	2000	00939		DC	WBUF		MTCHK939
0A1E 0	EB40	00940		DC	/EB40	SPACE REV 2 RECORDS	MTCHK940
0A1F 0	0002	00941		DC	2		MTCHK941
0A20 0	0840	00942		DC	/840		MTCHK942
0A21 0	0AA0	00943		DC	SNSE		MTCHK943
0A22 0	0640	00944	RTN9	DC	/0640	READ FORWARD	MTCHK944
0A23 0	07FE	00945		DC	/7FE		MTCHK945
0A24 0	1000	00946		DC	RBUF		MTCHK946
0A25 0	2540	00947		DC	/2540	EDIT FROM HOST	MTCHK947
0A26 0	07FE	00948		DC	/7FE		MTCHK948
0A27 0	2000	00949		DC	WBUF		MTCHK949
0A28 0	EB40	00950		DC	/EB40	SPACE REV RECORD	MTCHK950
0A29 0	0001	00951		DC	1		MTCHK951
0A2A 0	0840	00952		DC	/840		MTCHK952
0A2B 0	0AA0	00953		DC	SNSE		MTCHK953
0A2C 0	EB40	00954	RTNA	DC	/EB40	SPACE REV RECORD	MTCHK954

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0A2D 0  0001    00955           DC      1                                               MTCHK955
0A2E 0  0840    00956           DC      /840                                            MTCHK956
0A2F 0  0AA0    00957           DC      SNSE                                            MTCHK957
0A30 0  0640    00958   RTNB    DC      /0640       READ FORWARD (3 TIMES)              MTCHK958
0A31 0  0800    00959           DC      /800        BT CT CHANGED (800, 07FE, 08        MTCHK959
0A32 0  1000    00960           DC      RBUF                                            MTCHK960
0A33 0  0840    00961           DC      /840                                            MTCHK961
0A34 0  0AA0    00962           DC      SNSE                                            MTCHK962
0A35 0  2F40    00963   RTNC    DC      /2F40       REWIND                              MTCHK963
0A36 0  0000    00964           DC      *-*                                             MTCHK964
0A37 0  0140    00965           DC      /140        WRT                                 MTCHK965
0A38 0  0800    00966           DC      /800                                            MTCHK966
0A39 0  2008    00967           DC      WBUF+8                                          MTCHK967
0A3A 0  0140    00968           DC      /140        WRT                                 MTCHK968
0A3B 0  0700    00969           DC      /700                                            MTCHK969
0A3C 0  2004    00970           DC      WBUF+4                                          MTCHK970
0A3D 0  0140    00971           DC      /140        WRT                                 MTCHK971
0A3E 0  0400    00972           DC      /400                                            MTCHK972
0A3F 0  2002    00973           DC      WBUF+2                                          MTCHK973
0A40 0  0140    00974           DC      /140        WRT RECORD TO SEARCH FOR IN         MTCHK974
0A41 0  0200    00975           DC      /200        BYTE COUNT                          MTCHK975
0A42 0  2000    00976           DC      WBUF                                            MTCHK976
0A43 0  0140    00977           DC      /140        WRT ANOTHER                         MTCHK977
0A44 0  0100    00978           DC      /100                                            MTCHK978
0A45 0  2003    00979           DC      WBUF+3                                          MTCHK979
0A46 0  0140    00980           DC      /140        WRT                                 MTCHK980
0A47 0  0800    00981           DC      /800                                            MTCHK981
0A48 0  2005    00982           DC      WBUF+5                                          MTCHK982
0A49 0  2F50    00983           DC      /2F50       REWIND (W/PROG INT)                 MTCHK983
0A4A 0  0000    00984           DC      *-*                                             MTCHK984
0A4B 0  0840    00985           DC      /840                                            MTCHK985
0A4C 0  0AA0    00986           DC      SNSE                                            MTCHK986
0A4D 0  3540    00987   RTND    DC      /3540       WRT COMPARE BUFFER                  MTCHK987
0A4E 0  0028    00988           DC      40          WITH MAX BYTE COUNT                 MTCHK988
0A4F 0  2007    00989           DC      WBUF+7                                          MTCHK989
0A50 0  9B40    00990           DC      /9B40       SEARCH FOR RECORD                   MTCHK990
0A51 0  000E    00991           DC      /E          STARTING WITH 14TH BYTE             MTCHK991
0A52 0  EB40    00992           DC      /EB40       SPACE REV RECORD                    MTCHK992
0A53 0  0001    00993           DC      1                                               MTCHK993
0A54 0  0640    00994           DC      /0640       READ FORWARD                        MTCHK994
0A55 0  0200    00995           DC      /200                                            MTCHK995
0A56 0  1000    00996           DC      RBUF                                            MTCHK996
0A57 0  0840    00997           DC      /840                                            MTCHK997
0A58 0  0AA0    00998           DC      SNSE                                            MTCHK998
0A59 0  0140    00999   RTNE    DC      /140        WRT                                 MTCHK999
0A5A 0  07EE    01000           DC      /07EE                                           MTCHK000
0A5B 0  2000    01001           DC      WBUF                                            MTCHK001
0A5C 0  0E40    01002           DC      /0E40       READ REV                            MTCHK002
0A5D 0  0100    01003           DC      /0100       WITH WRONG BYTE COUNT               MTCHK003
0A5E 0  1000    01004           DC      RBUF                                            MTCHK004
0A5F 0  0840    01005           DC      /840                                            MTCHK005
0A60 0  0AA0    01006           DC      SNSE                                            MTCHK006
0A61 0  D740    01007   RTNF    DC      /D740       WRT FILE MARK                       MTCHK007
0A62 0  0001    01008           DC      1                                               MTCHK008
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0A63 0  0E40    01009        DC      /0E40       READ REVERSE                  MTCHK009
0A64 0  0002    01010        DC      2                                         MTCHK010
0A65 0  1000    01011        DC      RBUF                                      MTCHK011
0A66 0  0840    01012        DC      /840                                      MTCHK012
0A67 0  0AA0    01013        DC      SNSE                                      MTCHK013
0A68 0  1540    01014 RTN10  DC      /1540       WRT HOST TO 2K LOCAL BUFFER   MTCHK014
0A69 0  0840    01015        DC      /0840       W/BYTE COUNT TOO LARGE        MTCHK015
0A6A 0  2000    01016        DC      WBUF                                      MTCHK016
0A6B 0  0840    01017        DC      /0840                                     MTCHK017
0A6C 0  0AA0    01018        DC      SNSE                                      MTCHK018
0A6D 0  5740    01019 RTN11  DC      /5740       WRT RECORD GAP                MTCHK019
0A6E 0  0100    01020        DC      /100                                      MTCHK020
0A6F 0  0E40    01021        DC      /0E40       READ REV                      MTCHK021
0A70 0  0100    01022        DC      /100                                      MTCHK022
0A71 0  1000    01023        DC      RBUF                                      MTCHK023
0A72 0  0840    01024        DC      /840                                      MTCHK024
0A73 0  0AA0    01025        DC      SNSE                                      MTCHK025
0A74 0  1560    01026 RTN12  DC      /1560       WRT HOST TO LOCAL BUFFER      MTCHK026
0A75 0  0100    01027        DC      /100            W/ CHAIN DATA             MTCHK027
0A76 0  2000    01028        DC      WBUF                                      MTCHK028
0A77 0  1560    01029        DC      /1560       WRT - CHAIN DATA              MTCHK029
0A78 0  0100    01030        DC      /100                                      MTCHK030
0A79 0  2080    01031        DC      WBUF+/80                                  MTCHK031
0A7A 0  1540    01032        DC      /1540       WRT                           MTCHK032
CA7B 0  0100    01033        DC      /100                                      MTCHK033
0A7C 0  2100    01034        DC      WBUF+/100                                 MTCHK034
0A7D 0  0740    01035        DC      /0740       WRT LOCAL BUFFER TO TAPE      MTCHK035
0A7E 0  0300    01036        DC      /300        BYTE COUNT                    MTCHK036
0A7F 0  0840    01037        DC      /840                                      MTCHK037
0A80 0  0AA0    01038        DC      SNSE                                      MTCHK038
0A81 0  0E40    01039 RTN13  DC      /0E40       READ REV TAPE TO HOST         MTCHK039
0A82 0  0300    01040        DC      /300            THE CHAINED DATA OF PREV RMTCHK040
0A83 0  1000    01041        DC      RBUF                                      MTCHK041
0A84 0  0840    01042        DC      /840                                      MTCHK042
0A85 0  0AA0    01043        DC      SNSE                                      MTCHK043
0A86 0  0140    01044 RTN14  DC      /0140 WRT HOST TO TAPE, W/RETRY           MTCHK044
                01045     *                      (PATCH TO /0540 TO INHIBIT RMTCHK045
0A87 0  1000    01046        DC      /1000        BYTE COUNT                   MTCHK046
0A88 0  2000    01047        DC      WBUF                                      MTCHK047
0A89 0  EB40    01048        DC      /EB40       BACKSPACE                     MTCHK048
0A8A 0  0001    01049        DC      1           ONE RECORD                    MTCHK049
0A8B 0  0640    01050        DC      /0640       READ TAPE TO HOST   (/240)    MTCHK050
0A8C 0  1000    01051        DC      /1000       BYTE COUNT                    MTCHK051
0A8D 0  1000    01052        DC      RBUF                                      MTCHK052
0A8E 0  0840    01053        DC      /0840       GO SENSE                      MTCHK053
0A8F 0  0AA0    01054        DC      SNSE                                      MTCHK054
0A90 0  1540    01055 RTN15  DC      /1540       WRITE HOST TO LOCAL BUFFER (MTCHK055
0A91 0  0800    01056        DC      /800        BYTE COUNT                    MTCHK056
0A92 0  2000    01057        DC      WBUF                                      MTCHK057
0A93 0  0740    01058        DC      /0740 WRT LB TO TAPE, W/RETRY (1740 W/MTCHK058
0A94 0  0800    01059        DC      /800        BYTE COUNT                    MTCHK059
0A95 0  0840    01060        DC      /0840       GO SENSE                      MTCHK060
0A96 0  0AA0    01061        DC      SNSE                                      MTCHK061
0A97 0  3B40    01062 RTN16  DC      /3B40       READ REV TAPE TO LB  (/2B40)MTCHK062
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0A98 0  0800      01063          DC      /800         BYTE COUNT                           MTCHK063
0A99 0  1640      01064          DC      /1640        RD FWD LB TO HOST        (/1240)MTCHK064
0A9A 0  0800      01065          DC      /800         BYTE COUNT                           MTCHK065
0A9B 0  1000      01066          DC      RBUF                                              MTCHK066
0A9C 0  0840      01067          DC      /0840        GO SENSE                             MTCHK067
0A9D 0  0AA0      01068          DC      SNSE                                              MTCHK068
0A9E 0  2F40      01069   RTN17  DC      /2F40        REWIND W/IMMEDIATE INTERRUPTMTCHK069
0A9F 0  0000      01070          DC      *-*          FALL THRU TO SENSE COMMAND   MTCHK070
                  01071   **********      SENSE   ***************************** MTCHK071
0AA0 0  0401      01072   SNSE   DC      /0401        SENSE COMMAND                        MTCHK072
0AA1 0  0051      01073          DC      /51          NUMBER OF WORDS TO TRANSFER MTCHK073
0AA2 0  0AA4      01074          DC      SENSE        THE PLACE TO PUT THEM        MTCHK074
0AA4    0000      01075          BSS  E  0                                                 MTCHK075
                  01076   ****************************************************** MTCHK076
                  01077   *    MTA STATUS WORDS ARE PUT HERE                  *  MTCHK077
                  01078   ****************************************************** MTCHK078
0AA4    0051      01079   SENSE BSS      /51                                               MTCHK079
0AF6    0200      01080          END     TOP                                               MTCHK080
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SYMBOL     VALUE  REL DEFN     REFERENCES

ADVAN      02E6    0   00192   00202,B 00203,B 00204,B 00205,B 00206,B 00207,B 00208,B 00209,B 00210,B 00214,B 00217,B
                                00233,B 00235,B 00240,B 00241,B 00242,B 00246,B 00253,B 00258,B 00279,B 00284,B 00356,B
AD10       0366    0   00267   00261,B 00263,B 00266,B
AD2        0362    0   00264   00262,B
AGAIN      02A4    0   00143   00198,B 00213,B 00230,B 00272,B 00275,B 00283,B
BAD1       09E2    0   00863   00173,M 00177,R 00327,R
BAD2       09E3    0   00864   00176,M 00332,R
BAD5       09E4    0   00865   00238,M 00337,R 00346,M
BITS       0456    0   00429   00308,B 00313,B 00319,B 00325,B 00441,B 00446,B
BR         09D0    0   00645   00021,R 00023,R
BYPAS      044C    0   00420   00425,B
CERRS      09D7    0   00852   00057,R 00064,M 00394,M
CKDR       0274    0   00103   00095,B 00114,B 00289,B
CNT        0574    0   00699   00497,R
CONS       0221    0   00046   00538,B
CONV       0486    0   00472   00049,B 00052,B 00055,B 00058,B 00303,B 00341,B 00344,B 00399,B 00405,B 00409,B 00413,B
                                00482,B 00483,B
CWD1       0523    0   00613   00171,R 00316,R
CWD2       053B    0   00637   00124,R 00127,M 00174,R 00322,R
DATA       09CE    0   00843   00035,R
EMSG       03E2    0   00347   00338,B
ENDOP      04C8    0   00526   00520,B
ERBIT      0475    0   00456   00453,B
ERROR      0413    0   00387   00371,B
FERRS      09D6    0   00851   00054,R 00063,M 00298,M
FIRST      09E1    0   00862   00366,M 00390,R 00393,M
FLAGS      046E    0   00451   00330,B 00335,B 00463,B 00468,B
FLGER      038D    0   00295   00178,B 00239,B
GO         02D9    0   00179   00358,B
HALT       09C2    0   00829   00091,R
HEX        09AA    0   00815   00432,R 00434,R 00477,R
H0010      09DD    0   00858   00267,R
H0200      09DE    0   00859   00185,R 00260,R
ILSW3      09E0    0   00861   00146,M 00184,R 00187,M 00518,M 00523,R
INIT       023C    0   00060   00025,R 00042,B
INT3       04B7    0   00515   00027,R 00528,B
INT4       04CD    0   00530   00029,R 00540,B
LP1        0218    0   00036   00039,B
LP3        0295    0   00124   00129,B
MODE       09D2    0   00847   00073,M 00083,R 00107,R 00119,R
MSG        0553    0   00666   00490,R 00492,R
MSG0       0595    0   00737   00666,R
MSG1       071F    0   00760   00667,R
MSG10      0813    0   00777   00676,R
MSG11      081F    0   00778   00677,R
MSG12      0824    0   00779   00678,R
MSG13      0825    0   00780   00679,R
MSG14      0826    0   00781   00680,R
MSG15      0827    0   00782   00681,R
MSG16      0828    0   00783   00682,R
MSG17      0829    0   00784   00683,R
MSG18      0849    0   00786   00684,R
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SYMBOL	VALUE	REL	DEFN	REFERENCES
MSG19	0860	0	00788	00685,R
MSG2	0757	0	00764	00668,R
MSG20	087C	0	00790	00686,R
MSG21	08A2	0	00793	00687,R
MSG22	08BE	0	00795	00688,R
MSG23	08E4	0	00798	00689,R
MSG24	0900	0	00800	00690,R
MSG25	0914	0	00802	00691,R
MSG26	0924	0	00803	00692,R
MSG27	0930	0	00804	00693,R
MSG28	0935	0	00805	00694,R
MSG29	095C	0	00808	00695,R
MSG3	0766	0	00765	00669,R
MSG30	0974	0	00810	00696,R
MSG31	098C	0	00812	00697,R
MSG32	09A4	0	00814	00698,R
MSG4	0784	0	00767	00670,R
MSG5	07A4	0	00759	00671,R
MSG6	07C7	0	00771	00672,R
MSG7	07CD	0	00772	00673,R
MSG8	0800	0	00775	00674,R
MSG9	0806	0	00776	00675,R
NBIT	046B	0	00444	00438,B
NO	042B	0	00402	00391,B
NXBIT	0483	0	00466	00460,B
NXT	0405	0	00372	00422,B 00424,B
OPR	03EE	0	00354	00359,B
PASS	09D4	0	00849	00048,R 00061,M 00285,M
PRGIN	02DB	0	00183	00090,B 00161,B 00164,B 00167,B 00186,B 00188,B
PROG	04C6	0	00525	00522,B
RBUF	1000	0	00867	00367,R 00376,M 00408,R 00946,R 00960,R 00996,R 01004,R 01011,R 01023,R 01041,R 01052,R 01066,R
RCOMP	03F8	0	00364	00218,B 00234,B 00247,B 00254,B 00280,B 00373,B 00381,B
RDSW	09CC	0	00839	00070,R 00354,R 00420,R
READY	09C4	0	00831	00086,R
RECDS	09DA	0	00855	00273,R 00281,R
REG	0443	0	00415	00387,M 00388,M 00389,M 00404,R 00407,R 00411,R
REGF	03E5	0	00349	00295,M 00296,M 00297,M
RESP	04AE	0	00503	00505,B
RESTO	04E3	0	00549	00527,B 00537,B 00539,B 00554,B
RETRY	09D5	0	00850	00051,R 00062,M 00155,M
REW	09E5	0	00872	00085,M 00831,R
REWD	025C	0	00083	00076,B 00097,B
RFLAG	09DB	0	00856	00500,M 00503,R 00533,M
ROUTN	050B	0	00589	00179,B
RST	09BE	0	00825	00526,R
RSTPR	09C0	0	00827	00525,R
RTN	09D8	0	00853	00133,M 00158,R 00192,M 00193,R 00302,R 00315,R 00321,R 00352,R 00379,R 00398,R 00418,R
RTNA	0A2C	0	00954	00575,R
RTNAD	04F3	0	00565	00195,R
RTNB	0A30	0	00958	00225,M 00576,R
RTNC	0A35	0	00963	00577,R

SYMBOL	VALUE	REL	DEFN	REFERENCES
RTND	0A4D	0	00987	00578,R
RTNE	0A59	0	00999	00579,R
RTNF	0A61	0	01007	00580,R
RTN0	09F0	0	00894	00134,R 00565,R
RTN1	09F7	0	00901	00566,R
RTN10	0A68	0	01014	00581,R
RTN11	0A6D	0	01019	00582,R
RTN12	0A74	0	01026	00583,R
RTN13	0A81	0	01039	00243,R 00584,R
RTN14	0A86	0	01044	00249,M 00250,M 00255,R 00268,M 00269,M 00585,R
RTN15	0A90	0	01055	00586,R
RTN16	0A97	0	01062	00276,R 00587,R
RTN17	0A9E	0	01069	00588,R
RTN2	09FB	0	00905	00567,R
RTN3	09FF	0	00909	00568,R
RTN4	0A03	0	00913	00569,R
RTN5	0A07	0	00917	00570,R
RTN6	0A0B	0	00921	00571,R
RTN7	0A0F	0	00925	00572,R
RTN8	0A15	0	00931	00573,R
RTN9	0A22	0	00944	00574,R
RUTA	030B	0	00215	00599,R
RUTB	0311	0	00218	00600,R
RUTC	032B	0	00233	00601,R
RUTD	032D	0	00234	00602,R
RUTE	0331	0	00236	00603,R
RUTF	0339	0	00240	00604,R
RUT0	02F2	0	00202	00589,R
RUT1	02F4	0	00203	00590,R
RUT10	033B	0	00241	00605,R
RUT11	033D	0	00242	00606,R
RUT12	033F	0	00243	00607,R
RUT13	0346	0	00247	00608,R
RUT14	0353	0	00254	00609,R
RUT15	0371	0	00273	00610,R
RUT16	037D	0	00280	00611,R
RUT17	0386	0	00285	00612,R
RUT2	02F6	0	00204	00591,R
RUT3	02F8	0	00205	00592,R
RUT4	02FA	0	00206	00593,R
RUT5	02FC	0	00207	00594,R
RUT6	02FE	0	00208	00595,R
RUT7	0300	0	00209	00596,R
RUT8	0302	0	00210	00597,R
RUT9	0304	0	00211	00598,R
SAVA	04EE	0	00557	00543,M 00553,R
SAVE	04DC	0	00542	00516,B 00531,B 00547,B
SDWR	09C8	0	00835	00532,R
SELCT	09EC	0	00889	00108,M 00109,R 00823,R
SENSE	0AA4	0	01079	00088,R 00113,R 00144,M 00145,M 00149,R 00153,R 00236,R 00340,R 00878,R 00900,R 01074,R
SET	045F	0	00435	00433,B 00495,M
SETA	0477	0	00457	00455,B 00496,M

SYMBOL	VALUE	REL	DEFN	REFERENCES
SETUP	048E	0	00478	00494,M
SILSW	09C6	0	00833	00517,R
SNSE	0AA0	0	01072	00892,R 00904,R 00908,R 00912,R 00916,R 00920,R 00924,R 00930,R 00943,R 00953,R 00957,R 00962,R 00986,R 00998,R 01006,R 01013,R 01018,R 01025,R 01038,R 01043,R 01054,R 01061,R 01068,R
SPACE	09BA	0	00816	00454,R 00456,R
START	09BC	0	00823	00110,M 00111,R 00135,M 00147,R 00196,M
SWIT	09DF	0	00860	00071,R 00355,R 00421,R 00839,R
TMSG4	0258	0	00077	00074,B
TOP	0200	0	00021	01080,R
TUBE	04D9	0	00539	00536,B
TWO	09DC	0	00857	00248,R 00265,R
TYPE	0496	0	00489	00041,B 00047,B 00050,B 00053,B 00056,B 00059,B 00066,B 00069,B 00075,B 00078,B 00301,B 00304,B 00309,B 00314,B 00320,B 00326,B 00331,B 00336,B 00339,B 00342,B 00345,B 00348,B 00397,B 00400,B 00401,B 00403,B 00406,B 00410,B 00414,B 00509,B
UNO	045D	0	00434	00431,B
VDT	09CA	0	00837	00491,M 00501,R 00502,M
WBUF	2000	0	00866	00036,M 00369,R 00412,R 00867,R 00933,R 00936,R 00939,R 00949,R 00967,R 00970,R 00973,R 00976,R 00979,R 00982,R 00989,R 01001,R 01016,R 01028,R 01031,R 01034,R 01047,R 01057,R
WORDS	09D9	0	00854	00216,M 00227,M 00232,M 00245,M 00252,M 00271,M 00278,M 00365,R 00374,R
WRITE	04A7	0	00499	00507,B
XPORT	09D3	0	00848	00094,M 00103,M 00104,R 00106,M 00122,R
XR1	04F0	0	00559	00544,M 00550,R
XR2	04F1	0	00560	00545,M 00551,R
XR3	04F2	0	00561	00546,M 00552,R

```
000 OVERFLOW SECTORS SPECIFIED
000 OVERFLOW SECTORS REQUIRED
173 SYMBOLS DEFINED
    NO ERROR(S) AND    NO WARNING(S)  FLAGGED IN ABOVE ASSEMBLY
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