

TITLE LT15/19 SYSTEM EXERCISER TEST
EBREL

/COPYRIGHT MARCH 21, 1972
/REV. C, REVISED APRIL 21, 1972
/DIGITAL EQUIPMENT CORPORATION MAYNARD, MASS. 01754
/PROGRAMMER: EARL L. BOUSE

/THIS PROGRAM IS DESIGNED TO EXERCISE THE TRANSMITTER
/RECEIVER AND TELEPRINTERS FOR THE LT15/19. THE PROGRAM
/WILL EXERCISE BOTH THE LT15 AND LT19 SIMULTANEOUSLY
/IN CONFIGURATIONS OF 1 TO 16 TELETYPES. THE TEST STARTS
/BY TYPING ALL CHARACTERS SIMULTANEOUSLY ON ALL
/AVAILABLE TELETYPES AND THEN RUNS A "FLOATING
/TELETYPE" TEST. IN THIS TEST, ONE TELETYPE IS LEFT
/SILENT WHILE ALL REMAINING TELETYPES CONTINUE
/TYPING OUT THE CHARACTER SET. AFTER COMPLETING
/TEN LINES OF CHARACTER SETS THE 'SILENT' TELETYPE
/IS RE-STARTED AND ANOTHER TELETYPE IS LEFT SILENT.
/ANY CHARACTER MAY BE TYPED IN ON THE 'SILENT'
/TELETYPE AND IT WILL ECHO BACK THE CHARACTER
/THUS TESTING THE RECEIVER SECTION OF THAT TELETYPE.
/PROVISION IS MADE TO 'HOLD' ANY SELECTED TELETYPE IN AN
/ECHO! MODE VIA TYPING A 'CNTR A' FOLLOWED VIA A
/NUMBER OF '1 TO 16' ON ANY SILENT TELETYPE AND TERMINATE
/THE INPUT WITH 'CARRIAGE RETURN'. TYPING 'RUBOUT'
/WILL RUBOUT ANY PRECEDING NUMBER AND TYPING A SECOND
/CNTR A' WILL RELEASE THE 'HOLD' MODE.

707764 A
707702 A

EBA=707764
EEM=707702

00000 R 604034 A
00001 R 000035 A
00002 R 000000 A
00003 R 000000 A
00004 R 000115 R
00005 R 000031 R
00006 R 142461 A
00007 R 656171 A
00010 R 020000 A
00011 R A
00020 R 000000 A
00021 R 000000 A
00022 R 000000 A
00023 R 000000 A
00024 R 000000 A
00025 R 000000 A
00026 R 000000 A
00027 R 000000 A
00030 R 000000 A

USERSW 604034
35
0
0
,DSA SERVICE
,DSA INIT
,SIXBT 'LT1519'

/I/O DEVICE WITH MULTI - 'API' CHANNELS
/LT15/19 RECEIVER 'SPI' ADDRESS '75'

DATASW 20000
,BLOCK 7

/DATA SW4 INHIBITS LT15/19 TEST

SYSERR 0
0
ERCODE 0

/ERROR INDICATOR FOR MONITOR,
/W,C, FOR DATA WORD ERROR CODES
/ERROR CODE

/EJECT

```

/INITILIZE THE LT15/19 TEST
00031 R 000000 A INIT 0
00032 R 707764 A EBA
00033 R 707702 A EEM
00034 R 200031 R LAC INIT
00035 R 040115 R DAC SERVICE
00036 R 140020 R DZM SYSERR /CLEAR ERROR LOCATIONS
00037 R 140021 R DZM SYSERR+1
00040 R 140022 R DZM ERCODE
00041 R 141040 R DZM LONTTY
00042 R 141041 R DZM TLSMO
00043 R 141024 R DZM TEMP6
00044 R 141037 R DZM MODESW
00045 R 141032 R DZM TIYHOLD
00046 R 776100 A LAW =1700
00047 R 041015 R DAC LOOPA /SET UP FIRST TEST
00050 R 201175 R LAC (DSTSW1+1
00051 R 040122 R DAC DSTSW1
00052 R 201176 R LAC (RECA
00053 R 040270 R DAC DSTSW2
00054 R 100565 R JMS HOLDSW /CHECK FOR HOLD SWITCH
00055 R 141036 R DZM HOLSET /CLEAR HOLD SWITCH
00056 R 777400 A LAW =400
00057 R 041016 R DAC WAITCT /WAIT COUNTER FOR FLAGS
00060 R 760215 A LAW 215
00061 R 041025 R DAC TEMP7 /SET UP TO TYPE CARRIAGE RETURN
00062 R 100074 R JMS TRNSMT /INITILIZE TTY'S
00063 R 201177 R LAC (TTY1
00064 R 041021 R DAC TEMP3 /SAVE ADDRESS OF TTY TABLE
00065 R 777777 A LAW =1
00066 R 061021 R DAC* TEMP3
00067 R 441021 R ISZ TEMP3
00070 R 441020 R ISZ TEMP2
00071 R 600066 R JMP ,=3
00072 R 100624 R JMS SETPRT /SET UP ASCII CHARACTERS,
00073 R 620031 R JMP* INIT
/TRANSMIT A 'CHARACTER' TO INITIALIZE ALL TELETYPES,
00074 R 000000 A TRNSMT 0
00075 R 777760 A LAW =20
00076 R 041017 R DAC TEMP1 /= TO 16 TTY'S
00077 R 041020 R DAC TEMP2
00100 R 201200 R LAC (TLS1
00101 R 041021 R DAC TEMP3 /SAVE ADDRESS OF TLS IOT'S
00102 R 201021 R LAC TEMP3
00103 R 541041 R SAD TLSMO /IS THIS THE SILENT TTY?
00104 R 600111 R JMP ,+5 /YES
00105 R 541024 R SAD TEMP6 /IS THIS THE SELECTED TTY?
00106 R 600111 R JMP ,+3 /YES
00107 R 201025 R LAC TEMP7
00110 R 421021 R XCT* TEMP3 /TYPE CARRIAGE RETURN ON ALL TTY'S
00111 R 441021 R ISZ TEMP3
00112 R 441017 R ISZ TEMP1 /INITIALIZED ALL TTY'S?
00113 R 600110 R JMP ,=3 /NO,

```

PAGE 3 LT1519 SRC LT15/19 SYSTEM EXERCISER TEST

00114 R 620074 R

JMP* TRNSM
EJECT

/SERVICE ROUTINE OF LT15/19 TEST

```

00115 R 000000 A  SERVICE 0
00116 R 707764 A          EBA
00117 R 707702 A          EEM
00120 R 041034 R          DAC      SAVEAC      /SAVE CONTENTS OF AC,
00121 R 620122 R          JMP#    DSTSW1
00122 R 000000 A  DSTSW1 0
00123 R 201016 R          LAC      WAITCT
00124 R 740200 A          SZA
00125 R 100510 R          JMS      CHKFLG      /HAVE TTY'S BEEN SET UP?
00126 R 777777 A          LAW      =1      /NO, CHECK FLAGS
00127 R 041035 R          DAC      FLGDRY      /SET "NO-FLAG" INDICATOR
00130 R 441015 R          ISZ      LOOPA      /ECHO NEXT TTY?
00131 R 741000 A          SKP
00132 R 100373 R          JMS      SILENC      /NO, CONTINUE
00133 R 100224 R          JMS      CHKREC      /YES, FLOAT NEXT TTY
00134 R 100150 R          JMS      CHKTRN      /CHECK RECEIVER FLAGS
00135 R 201040 R          LAC      LONTTY      /CHECK TRANSMIT FLAGS
00136 R 740200 A          SZA
00137 R 600605 R          JMP      EXITM>      /IS ONLY ONE TTY AVAILABLE?
00140 R 201035 R          LAC      FLGDRY      /YES, EXIT "-5"
00141 R 740200 A          SZA
00142 R 600610 R          JMP      NOFLAG      /NO, CONTINUE
00143 R 705512 A  EXIT    705512      /WERE ANY FLAGS SET?
00144 R 751100 A          SPA!CLA
00145 R 201034 R          LAC      SAVEAC      /NO, EXIT
00146 R 703344 A          DBR
00147 R 620115 R          JMP#    SERVICE      /YES, 'RPL' IOT
                                /IS "API" ON?
                                /YES, RESTORE AC
                                /NO, EXIT

```

/CHECK FOR ANY TRANSMITTER FLAGS BEING SET

```

00150 R 000000 A  CHKTRN 0
00151 R 201201 R          LAC      (TSF1=1      /LOAD ADDRESS OF TRANS, FLAGS
00152 R 041017 R          DAC      TEMP1      /SAVE IT
00153 R 201202 R          LAC      (TLS1=1      /LOAD ADDRESS OF TLS'S
00154 R 041020 R          DAC      TEMP2
00155 R 201203 R          LAC      (TCF1=1      /LOAD ADDRESS OF TCF'S
00156 R 041023 R          DAC      TEMP5
00157 R 201204 R          LAC      (PRT1A=1      /PRT1A=1 ADDRESS
00160 R 041022 R          DAC      TEMP4
00161 R 441017 R  CKTRN1 ISZ      TEMP1      /INCREMENT !TSF! TABLE
00162 R 441020 R          ISZ      TEMP2      /INCREMENT !TLS! TABLE
00163 R 441023 R          ISZ      TEMP5      /INCREMENT !TCF! TABLE
00164 R 441022 R          ISZ      TEMP4      /INCREMENT PRINT TABLE
00165 R 201017 R          LAC      TEMP1
00166 R 541205 R          SAD      (TCF1
00167 R 620150 R          JMP#    CHKTRN      /END OF TABLE?
00170 R 421017 R          XCT#    TEMP1      /YES, NO TRANS, FLAGS SET
00171 R 600161 R          JMP      CKTRN1      /NO, IS FLAG SET?
                                /NO, CHECK NEXT FLAG

```

/EJECT

```

00172 R 141035 R      DZM      FLGDRV      /YES, CLEAR 'NO FLAG' SWITCH
00173 R 421023 R      XCT*     TEMP5      /CLEAR FLAG
00174 R 201020 R      LAC      TEMP2
00175 R 541041 R      SAD      TL5M0     /IS FLAG FROM FLOATING TTY?
00176 R 600161 R      JMP      CKTRN1  /YES, IGNORE FLAG
00177 R 221022 R      LAC*     TEMP4      /= TO ADDRESS OF THE PRINT TABLE POINTER
00200 R 041024 R      DAC      TEMP6      /SAVE IT
00201 R 221024 R      LAC*     TEMP6      /= TO CURRENT CHARACTER
00202 R 741200 A      SNA
00203 R 100217 R      JMS      RESPRT  /END OF PRINT TABLE?
00204 R 100565 R      JMS      HOLDSW  /YES, RESET PRINT TABLE
00205 R 221024 R      LAC*     TEMP6      /CHECK FOR HOLD SWITCH
00206 R 421020 R      XCT*     TEMP2      /GET CHARACTER
00207 R 461022 R      ISZ*     TEMP4      /TRANSMIT NEXT CHAR.
00210 R 201036 R      LAC      HOLSET  /INDEX TABLE POINTER
00211 R 751200 A      SNA!CLA
00212 R 600161 R      JMP      CKTRN1  /WAS THE HOLD SWITCH SET?
00213 R 141036 R      DZM      HOLSET  /NO, CHECK FOR NEXT FLAG
00214 R 041025 R      DAC      TEMP7      /YES RE-SELECT ALL TTY'S
00215 R 100074 R      JMS      TRNSMT
00216 R 620150 R      JMP*     CHKTRN

/
/RESET PRINT TABLE
/
00217 R 000000 A      RESPRT  0
00220 R 201206 R      LAC      (PRTTAB  /RELOAD PRINT TABLE
00221 R 061022 R      DAC*     TEMP4
00222 R 041024 R      DAC      TEMP6
00223 R 620217 R      JMP*     RESPRT

/
/CHECK FOR ANY RECEIVER FLAGS FOR BEING SET AND
/IF THE 'SILENT' TTY'S FLAG IS SET, ECHO BACK THE
/CHARACTER RECEIVED,
/
00224 R 000000 A      CHKREC  0
00225 R 201207 R      LAC      (KSF1-1  /ADDRESS OF REC, FLAGS-1
00226 R 041017 R      DAC      TEMP1
00227 R 201210 R      LAC      (KRB1-1
00230 R 041020 R      DAC      TEMP2      /ADDRESS OF 'KRB'S'
00231 R 201202 R      LAC      (TLS1-1  /ADDRESS OF 'TLS'S'
00232 R 041021 R      DAC      TEMP3
00233 R 441017 R      CKREC1  ISZ      TEMP1
00234 R 441020 R      ISZ      TEMP2
00235 R 441021 R      ISZ      TEMP3
00236 R 201017 R      LAC      TEMP1
00237 R 541211 R      SAD      (KRB1
00240 R 620224 R      JMP*     CHKREC  /END OF TABLE!
00241 R 421017 R      XCT*     TEMP1      /YES, ALL FLAGS CHECKED,
00242 R 600233 R      JMP      CKREC1  /NO, IS FLAG SET?
00243 R 421020 R      XCT*     TEMP2      /NO, CHECK NEXT FLAG
00244 R 141035 R      DZM      FLGDRV  /YES, CLEAR THE FLAG
/CLEAR 'NO FLAG' SWITCH
,EJECT

```

```

00245 R 201020 R      LAC      TEMP2
00246 R 541042 R      SAD      KRBMO      /IS THIS THE SILENT TTY?
00247 R 741000 A      SKP
00250 R 600233 R      JMP      CKREC1      /YES
00251 R 100565 R      JMS      HOLDSW      /NO, IGNORE FLAG
00252 R 421020 R      XCT*     TEMP2      /CHECK FOR HOLD SWITCH,
00253 R 541212 R      SAD      (201      /YES, READ THE CHAR,
00254 R 741000 A      SKP      /WAS 'A' TYPED?
00255 R 620270 R      JMP*     DSTSW2      /YES, COMPLIMENT 'ECHOHOLD' MODE
00256 R 201032 R      LAC      TTYHOLD      /NO, CONTINUE
00257 R 740001 A      CMA
00260 R 041032 R      DAC      TTYHOLD      /COMPLIMENT 'ECHOHOLD' SWITCH
00261 R 740200 A      SZA
00262 R 600277 R      JMP      ECOTTY      /SET UP 'ECHOHOLD' MODE?
00263 R 777777 A      LAW      =1      /YES, ENTER 'ECHOHOLD' MODE
00264 R 041015 R      DAC      LUOPA      /NO, EXIT 'ECHOHOLD' MODE
00265 R 201176 R      LAC      (RECA      /SET UP TO FLOAT NEXT TELETYPE
00266 R 040270 R      DAC      DSTSW2      /ON THE NEXT PASS,
00267 R 600233 R      JMP      CKREC1
/
00270 R 000000 A      DSTSW2  0
00271 R 421021 R      RECA    XCT*     TEMP3      /TYPE IT
00272 R 201036 R      LAC      HOLSET
00273 R 741200 A      SNA
00274 R 600233 R      JMP      CKREC1      /WAS THE HOLD SWITCH SET?
00275 R 141036 R      DZM      HOLSET      /NO, CONTINUE
00276 R 620224 R      JMP*     CHKREC      /YES, CLEAR SWITCH AND EXIT
/SET UP TO DECODE SELECTED TTY ON ENTERING 'ECHOHOLD' MODE,
/
00277 R 201213 R      ECOTTY  LAC      (RECB
00300 R 040270 R      DAC      DSTSW2      /SET DISTRIBUTION SW FOR 'ECHOHOLD' MODE
00301 R 141031 R      DZM      SAVNUM      /CLEAR TTY NO, COUNTER
00302 R 760243 A      LAW      243      /RESPOND WITH '#',
00303 R 600271 R      JMP      RECA
/
/DECODE THE NUMBER OF SELECTED TELETYPE,
/
00304 R 541214 R      RECB    SAD      (215      /WAS 'CR' TYPED TO TERMINATE?
00305 R 600350 R      JMP      EXTECO      /YES, COMPUTE SELECTED TTY
00306 R 541215 R      SAD      (377      /WAS 'RUBOUT' TYPED?
00307 R 600341 R      JMP      RUBOUT      /YES, DELETE LAST CHARACTER
00310 R 041027 R      DAC      TEMP9      /SAVE CHARACTER
00311 R 501216 R      AND      (17      /MASK NO,
00312 R 041026 R      DAC      TEMP8      /NO, SAVE NUMBER
/
,EJECT

```

```

00313 R 201217 R      LAC      (TABNUM=1
00314 R 041030 R      DAC      TEMP10      /CHECK FOR LEGAL NØ,
00315 R 441030 R      ISZ      TEMP10
00316 R 221030 R      LAC#     TEMP10
00317 R 541027 R      SAD      TEMP9
00320 R 600327 R      JMP      COMPUTE      /ADD NUMBER
00321 R 541220 R      SAD      (270
00322 R 741000 A      SKP
00323 R 600315 R      JMP      ,=6
00324 R 760277 A      TYPEQM  LAW      277      /NO,TYPE '?!',
00325 R 421021 R      XCT#    TEMP3      /TYPE CHARACTER
00326 R 600233 R      JMP      CKREC1
/
00327 R 201031 R      COMPUTE LAC      SAVNUM
00330 R 746010 A      CLL!RTL
00331 R 740010 A      RAL
00332 R 041031 R      DAC      SAVNUM
00333 R 201026 R      LAC      TEMP8
00334 R 501221 R      AND      (7
00335 R 341031 R      TAD      SAVNUM
00336 R 041031 R      DAC      SAVNUM
00337 R 201027 R      LAC      TEMP9      /PRINT NØ,
00340 R 600271 R      JMP      RECA
/
00341 R 201031 R      RUBOUT  LAC      SAVNUM      /DELETE '1' CHARACTER
00342 R 744020 A      CLL!RAR
00343 R 744020 A      CLL!RAR
00344 R 744020 A      CLL!RAR
00345 R 041031 R      DAC      SAVNUM
00346 R 760257 A      LAW      257
00347 R 600325 R      JMP      TYPEQM+1      /TYPE A '!' TO INICATE RUBOUT
/
00350 R 201031 R      EXTECO  LAC      SAVNUM
00351 R 741200 A      SNA
00352 R 600324 R      JMP      TYPEQM      /WERE ANY CHARACTERS TYPED?
00353 R 201031 R      LAC      SAVNUM      /NO, ILLEGAL COMMAND, TYPE '?!'
00354 R 501216 R      AND      (17      /YES, CONTINUE
00355 R 041031 R      DAC      SAVNUM      /MAXIMIM NØ, OF TTY'S 16
00356 R 501222 R      AND      (10      /SAVE COMPLIMENT OF TTY NØ,
00357 R 750200 A      SZA!CLA
00360 R 201223 R      LAC      (2      /IS NØ, >THAN '7'?
00361 R 341031 R      TAD      SAVNUM      /YES, ADD '2' TO THE NØ
00362 R 740001 A      CMA
00363 R 341224 R      TAD      (1
00364 R 041031 R      DAC      SAVNUM
00365 R 777777 A      LAW      =1
00366 R 041015 R      DAC      LOOPA      /FLOAT SELECTED TELETYPE ON NEXT PASS
00367 R 201176 R      LAC      (RECA
00370 R 040270 R      DAC      DSTSW2      /SET UP FOR HOLD 'ECHO' MODE,
00371 R 600233 R      JMP      CKREC1
00372 R 600233 R      JMP      CKREC1
/
      .EJECT

```

/ROUTINE TO FLOAT "1" TTY WHILE TYPING ON ALL OTHERS,

```

00373 R 000000 A   SILENC  /
00374 R 776100 A     LAW      =1700
00375 R 041015 R     DAC      LOOPA   /SET UP TO PRINT "650" CHAR,
00376 R 141040 R     DZM      LQNTTY
00377 R 201041 R     LAC      TLSMO
00400 R 041020 R     DAC      TEMP2   /SET UP TO REINIT SILENT TTY,
00401 R 201032 R     LAC      TTYHOLD
00402 R 740200 A     SZA      /ECHOHOLD MODE' SELECTED
00403 R 100460 R     JMS      SELECT
00404 R 141032 R     DZM      TTYHOLD /YES, SELECT TTY
00405 R 201176 R     LAC      (RECA   /CLEAR 'MODE' ON ILLEGAL TTY NO,
00406 R 040270 R     DAC      DSTSW2
00407 R 441041 R     SILENC1 ISZ      TLSMO  /INCREMENT 'TLS' ADDRESS,
00410 R 441042 R     ISZ      KRBMO  /INCREMENT KRB ADDRESS
00411 R 201041 R     LAC      TLSMO
00412 R 541225 R     SAD      (TSF1  /END OF 'TLS' TABLE?
00413 R 100424 R     JMS      REPONT /YES, RESET POINTERS
00414 R 541200 R     SAD      (TLS1  /NO, IS THIS THE FIRST TTY?
00415 R 100432 R     JMS      CHKONE /YES, CHECK FOR BEING THE ONLY TTY
00416 R 221041 R     LAC*     TLSMO
00417 R 541226 R     SAD      (740000 /IS TTY AVAILABLE?
00420 R 600407 R     JMP      SILENC1 /NO, CHECK NEXT TTY
00421 R 750000 A     SILEXT  CLA      /RESTART SILENT TTY
00422 R 421020 R     XCT*    TEMP2  /XCT TLS IOT
00423 R 620373 R     JMP*    SILENC /YES, FLOAT THIS TTY
/
/
00424 R 000000 A     REPONT  /
00425 R 201211 R     LAC      (KRB1
00426 R 041042 R     DAC      KRBMO
00427 R 201200 R     LAC      (TLS1
00430 R 041041 R     DAC      TLSMO
00431 R 620424 R     JMP*    REPONT
      .EJECT

```

/CHECK FOR ONLY '1' TTY BEING AVAILABLE AND IF SO SET
/UP TO EXIT VIA '-5'

```

00432 R 000000 A   CHKONE 0
00433 R 200657 R     LAC     TLS2
00434 R 541227 R     SAD     (704024   /IS TTY #2 AVAILABLE?
00435 R 620432 R     JMP*    CHKONE   /YES, EXIT
00436 R 200660 R     LAC     TLS3
00437 R 541230 R     SAD     (704044   /IS TTY #3 AVAILABLE?
00440 R 620432 R     JMP*    CHKONE   /YES, EXIT
00441 R 201037 R     LAC     MODESW   /TTY #1 ONLY
00442 R 740001 A     CMA
00443 R 041037 R     DAC     MODESW   /COMPLEMENT THE MODE SWITCH
00444 R 741200 A     SNA
00445 R 600451 R     JMP     ,+4       /= TO TTY 0?
00446 R 777777 A     LAW     -1        /YES RESTART TTY #1
00447 R 041040 R     DAC     LONTTY   /NO, SILENCE TTY #1
00450 R 620432 R     JMP*    CHKONE   /SET UP TO EXIT -5
00451 R 201202 R     LAC     (TLS1=1
00452 R 041041 R     DAC     TLSMO
00453 R 201210 R     LAC     (KRB1=1
00454 R 041042 R     DAC     KRBMO
00455 R 750000 A     CLA
00456 R 400656 R     XCT     TLS1
00457 R 620373 R     JMP*    SILENC

```

/SET UP TO FLOAT THE SELECTED TELETYPE,

```

00460 R 000000 A   SELECT 0
00461 R 201202 R     LAC     (TLS1=1
00462 R 041026 R     DAC     TEMP8     /TLS ADDRESS=1
00463 R 201210 R     LAC     (KRB1=1
00464 R 041027 R     DAC     TEMP9     /KRB ADDRESS=1
00465 R 441026 R   SELNXT ISZ     TEMP8
00466 R 441027 R     ISZ     TEMP9
00467 R 441031 R     ISZ     SAVNUM   /WHEN '0' = TO SELECTED TTY,
00470 R 741000 A     SKP
00471 R 600474 R     JMP     ,+3
00472 R 100503 R     JMS     CHKSEL   /CHECK FOR LEGAL TELETYPE NO,
00473 R 600465 R     JMP     SELNXT
00474 R 100503 R     JMS     CHKSEL   /CHECK IS SELECTED TTY IS LEGAL,
00475 R 141015 R     DZM     LOOPA
00476 R 201026 R     LAC     TEMP8     /SET UP SELECTED TELETYPE
00477 R 041041 R     DAC     TLSMO
00500 R 201027 R     LAC     TEMP9
00501 R 041042 R     DAC     KRBMO
00502 R 600421 R     JMP     SILEXT   /RE=INITIALIZE SILENT TTY,
00503 R 000000 A   CHKSEL 0
00504 R 221026 R     LAC*    TEMP8
00505 R 541226 R     SAD     (740000   /IS THIS A LEGAL TTY?
00506 R 620460 R     JMP*    SELECT   /NO, EXIT
00507 R 620503 R     JMP*    CHKSEL   /YES, CONTINUE

```

PAGE 10

LT1519 SRC

LT15/19 SYSTEM EXERCISER TEST

.EJECT

```

/INITIALIZE ALL AVAILABLE TTY'S
/
00510 R 000000 A   CHKFLG 0
00511 R 201201 R   LAC      (TLS16
00512 R 041017 R   DAC      TEMP1      /TSF1=1 ADDRESS
00513 R 201203 R   LAC      (TSF16
00514 R 041020 R   DAC      TEMP2      /TCF1=1 ADDRESS
00515 R 201231 R   LAC      (KRB16
00516 R 041021 R   DAC      TEMP3      /TTY1=1 ADDRESS
00517 R 441017 R   CKFLG1 ISZ      TEMP1
00520 R 441020 R   ISZ      TEMP2
00521 R 441021 R   ISZ      TEMP3
00522 R 201017 R   LAC      TEMP1
00523 R 541205 R   SAD      (TCF1
00524 R 600532 R   JMP      EXTCKF
00525 R 421017 R   XCT*    TEMP1      /ALL FLAGS BEEN CHECKED?
00526 R 600517 R   JMP      CKFLG1  /YES, EXIT
00527 R 421020 R   XCT*    TEMP2      /IS FLAG SET?
00530 R 161021 R   DZM*    TEMP3      /NO, CHECK NEXT FLAG
00531 R 600517 R   JMP      CKFLG1  /YES, CLEAR THE FLAG
00532 R 441016 R   EXTCKF ISZ      WAITCT
00533 R 600605 R   JMP      EXITM5  /HAVE ALL FLAGS HAD TIME TO SET?
00534 R 777757 A   LAW      =21
00535 R 041017 R   DAC      TEMP1      /NO, EXIT "=5"
00536 R 201231 R   LAC      (TTY1=1
00537 R 041020 R   DAC      TEMP2      /YES
00540 R 201202 R   LAC      (TLS1=1
00541 R 041021 R   DAC      TEMP3      /=TO 16 TTY'S
00542 R 441017 R   CKFLG2 ISZ      TEMP1      /TTY1=1 ADDRESS
00543 R 741000 A   SKP
00544 R 600555 R   JMP      EXTCK2
00545 R 441020 R   ISZ      TEMP2
00546 R 441021 R   ISZ      TEMP3
00547 R 221020 R   LAC*    TEMP2
00550 R 741200 A   SNA
00551 R 600542 R   JMP      CKFLG2  /WAS TTY'S FLAG SET
00552 R 201226 R   LAC      (740000
00553 R 061021 R   DAC*    TEMP3      /YES, CHECK NEXT TTY
00554 R 600542 R   JMP      CKFLG2  /NO,
/DEPOSIT !NOP! FOR IOT
/
00555 R 201202 R   EXTCK2 LAC      (TLS1=1
00556 R 041041 R   DAC      TL5M0
00557 R 201210 R   LAC      (KRB1=1
00560 R 041042 R   DAC      KRBM0
00561 R 760212 A   LAW      212
00562 R 041025 R   DAC      TEMP7      /SAVE ADDRESS OF !TLS! TABLE
00563 R 100074 R   JMS     TRNSMT
00564 R 620510 R   JMP*    CHKFLG   /KRB1=1 ADDRESS
/SAVE ADDRESS OF !KRB! TABLE
/
LAW      212
DAC      TEMP7
JMS     TRNSMT
JMP*    CHKFLG
/
=EJECT

```

/TEST FOR DATA SW4 WHICH INHIBITS THE LT15/19 TEST

```

00565 R 000000 A   HOLDSW  0
00566 R 750004 A       LAS
00567 R 500010 R       AND   DATASW   /DATA SW4
00570 R 741200 A       SNA           /IS SWITCH SET?
00571 R 620565 R       JMP#  HOLDSW   /NO, CONTINUE
00572 R 777777 A       LAW    =1      /YES,
00573 R 041036 R       DAC    HOLSET   /SET HOLD SWITCH INDICATOR
00574 R 100637 R       JMS    CLRFLG  /CLEAR ALL TRANSMITTER RECEIVER FLAGS
00575 R 200122 R       LAC    DSTSW1
00576 R 041033 R       DAC    SAVDST   /SAVE RETURN ADDRESS
00577 R 201232 R       LAC    (HOLD,1
00600 R 040122 R       DAC    DSTSW1
00601 R 600605 R       JMP    EXITM5  /EXIT !=5!

```

```

00602 R 201033 R   HOLD,1 LAC    SAVDST
00603 R 040122 R       DAC    DSTSW1   /RESTORE RETURN ADDRESS
00604 R 600566 R       JMP    HOLDSW+1 /RE=TEST SWITCH

```

/SETUP FOR !=5! EXIT

```

00605 R 777773 A   EXITM5  LAW    =5
00606 R 040020 R       DAC    SYSERR
00607 R 600143 R       JMP    EXIT

```

/EXIT FOR A 'NO-FLAG' CONDITION

```

00610 R 705512 A   NOFLAG  705512   /TEST FOR 'API' (RPL)
00611 R 741100 A       SPA
00612 R 600615 R       JMP    ERROR1  /IS 'API' ON?
00613 R 777777 A       LAW    =1      /YES, 'API' ERROR
00614 R 620115 R       JMP#  SERVC   /NO
                                /NORMAL EXIT

```

/ERROR 1: API INTERRUPTED WITH NO FLAGS SET

```

00615 R 777777 A   ERROR1  LAW    =1      /SET UP ERROR 3
00616 R 040020 R       DAC    SYSERR
00617 R 201224 R       LAC    (1      /ERROR CODE 1: API ERROR
00620 R 040022 R       DAC    ERCODE
00621 R 777777 A       LAW    =1
00622 R 040021 R       DAC    ERCODE=1 /PRINT !1! DATA WORD
00623 R 600143 R       JMP    EXIT

```

/EJECT

```

/
/SET UP AN ASCII CHARACTER CHARACTER TABLE FOR ALL TELETYPES
/

```

```

00624 R 000000 A
00625 R 777762 A
00626 R 041021 R
00627 R 201233 R
00630 R 041022 R
00631 R 201206 R
00632 R 061022 R
00633 R 441022 R
00634 R 441021 R
00635 R 600632 R
00636 R 620624 R

```

```

SETPRT 0
LAW      =16
DAC      TEMP3
LAC      (PRT1A
DAC      TEMP4
LAC      (PRTTAB
DAC*     TEMP4
ISZ      TEMP4
ISZ      TEMP3
JMP      ,=3
JMP*     SETPRT

```

```

/
/CLEAR ALL TRANSMITTER AND RECEIVER FLAGS
/

```

```

00637 R 000000 A
00640 R 777760 A
00641 R 041017 R
00642 R 201205 R
00643 R 041022 R
00644 R 201211 R
00645 R 041023 R
00646 R 421022 R
00647 R 421023 R
00650 R 441022 R
00651 R 441023 R
00652 R 441017 R
00653 R 600646 R
00654 R 620637 R

```

```

CLRFLG 0
LAW      =20
DAC      TEMP1
LAC      (TCF1
DAC      TEMP4
LAC      (KRB1
DAC      TEMP5
XCT*     TEMP4
XCT*     TEMP5
ISZ      TEMP4
ISZ      TEMP5
ISZ      TEMP1
JMP      ,=5
JMP*     CLRFLG
,EJECT

```

/LT15/19 IOT TABLE

00655	R	740000	A	TTYIOT	740000
00656	R	704004	A	TLS1	704004
00657	R	704024	A	TLS2	704024
00660	R	704044	A	TLS3	704044
00661	R	704064	A	TLS4	704064
00662	R	704604	A	TLS5	704604
00663	R	704204	A	TLS6	704204
00664	R	704224	A	TLS7	704224
00665	R	704244	A	TLS8	704244
00666	R	704264	A	TLS9	704264
00667	R	704624	A	TLS10	704624
00670	R	704404	A	TLS11	704404
00671	R	704424	A	TLS12	704424
00672	R	704444	A	TLS13	704444
00673	R	704464	A	TLS14	704464
00674	R	704644	A	TLS15	704644
00675	R	704664	A	TLS16	704664
00676	R	704001	A	TSF1	704001
00677	R	704021	A	TSF2	704021
00700	R	704041	A	TSF3	704041
00701	R	704061	A	TSF4	704061
00702	R	704601	A	TSF5	704601
00703	R	704201	A	TSF6	704201
00704	R	704221	A	TSF7	704221
00705	R	704241	A	TSF8	704241
00706	R	704261	A	TSF9	704261
00707	R	704621	A	TSF10	704621
00710	R	704401	A	TSF11	704401
00711	R	704421	A	TSF12	704421
00712	R	704441	A	TSF13	704441
00713	R	704461	A	TSF14	704461
00714	R	704641	A	TSF15	704641
00715	R	704661	A	TSF16	704661
00716	R	704002	A	TCF1	704002
00717	R	704022	A	TCF2	704022
00720	R	704042	A	TCF3	704042
00721	R	704062	A	TCF4	704062
00722	R	704602	A	TCF5	704602
00723	R	704202	A	TCF6	704202
00724	R	704222	A	TCF7	704222
00725	R	704242	A	TCF8	704242
00726	R	704262	A	TCF9	704262
00727	R	704622	A	TCF10	704622
00730	R	704402	A	TCF11	704402
00731	R	704422	A	TCF12	704422
00732	R	704442	A	TCF13	704442
00733	R	704642	A	TCF15	704642
00734	R	704662	A	TCF16	704662

,EJECT

00735	R	704101	A	KSF1	704101
00736	R	704121	A	KSF2	704121
00737	R	704141	A	KSF3	704141
00740	R	704161	A	KSF4	704161
00741	R	704701	A	KSF5	704701
00742	R	704301	A	KSF6	704301
00743	R	704321	A	KSF7	704321
00744	R	704341	A	KSF8	704341
00745	R	704361	A	KSF9	704361
00746	R	704721	A	KSF10	704721
00747	R	704501	A	KSF11	704501
00750	R	704521	A	KSF12	704521
00751	R	704541	A	KSF13	704541
00752	R	704561	A	KSF14	704561
00753	R	704741	A	KSF15	704741
00754	R	704761	A	KSF16	704761
00755	R	704102	A	KRB1	704102
00756	R	704122	A	KRB2	704122
00757	R	704142	A	KRB3	704142
00760	R	704162	A	KRB4	704162
00761	R	704702	A	KRB5	704702
00762	R	704302	A	KRB6	704302
00763	R	704322	A	KRB7	704322
00764	R	704342	A	KRB8	704342
00765	R	704362	A	KRB9	704362
00766	R	704722	A	KRB10	704722
00767	R	704502	A	KRB11	704502
00770	R	704522	A	KRB12	704522
00771	R	704542	A	KRB13	704542
00772	R	704562	A	KRB14	704562
00773	R	704742	A	KRB15	704742
00774	R	704762	A	KRB16	704762
00775	R	000000	A	TTY1	0
00776	R	000000	A	TTY2	0
00777	R	000000	A	TTY3	0
01000	R	000000	A	TTY4	0
01001	R	000000	A	TTY5	0
01002	R	000000	A	TTY6	0
01003	R	000000	A	TTY7	0
01004	R	000000	A	TTY8	0
01005	R	000000	A	TTY9	0
01006	R	000000	A	TTY10	0
01007	R	000000	A	TTY11	0
01010	R	000000	A	TTY12	0
01011	R	000000	A	TTY13	0
01012	R	000000	A	TTY14	0
01013	R	000000	A	TTY15	0
01014	R	000000	A	TTY16	0

.EJECT

01015	R	000000	A	LOOPA	0
01016	R	000000	A	WAITCT	0
01017	R	000000	A	TEMP1	0
01020	R	000000	A	TEMP2	0
01021	R	000000	A	TEMP3	0
01022	R	000000	A	TEMP4	0
01023	R	000000	A	TEMP5	0
01024	R	000000	A	TEMP6	0
01025	R	000000	A	TEMP7	0
01026	R	000000	A	TEMP8	0
01027	R	000000	A	TEMP9	0
01030	R	000000	A	TEMP10	0
01031	R	000000	A	SAVNUM	0
01032	R	000000	A	TTYHOLD	0
01033	R	000000	A	SAVDST	0
01034	R	000000	A	SAVEAC	0
01035	R	000000	A	FLGDRV	0
01036	R	000000	A	HOLSET	0
01037	R	000000	A	MODESW	0
01040	R	000000	A	LQNTTY	0
01041	R	000000	A	TLSMO	0
01042	R	000000	A	KRBMO	0
01043	R	000000	A	PRT1A	0
01044	R	000000	A	PRT2A	0
01045	R	000000	A	PRT3A	0
01046	R	000000	A	PRT4A	0
01047	R	000000	A	PRT5A	0
01050	R	000000	A	PRT6A	0
01051	R	000000	A	PRT7A	0
01052	R	000000	A	PRT8A	0
01053	R	000000	A	PRT9A	0
01054	R	000000	A	PRT10	0
01055	R	000000	A	PRT12A	0
01056	R	000000	A	PRT13A	0
01057	R	000000	A	PRT14A	0
01060	R	000000	A	PRT15A	0
01061	R	000000	A	PRT16A	0

,EJECT

/CHARACTER EQUIVALENCE TABLE

01062	R	000314	A	PRTTAB	314
01063	R	000324	A		324
01064	R	000261	A		261
01065	R	000265	A		265
01066	R	000257	A		257
01067	R	000261	A		261
01070	R	000271	A		271
01071	R	000240	A		240
01072	R	000301	A		301
01073	R	000302	A		302
01074	R	000303	A		303
01075	R	000304	A		304
01076	R	000305	A		305
01077	R	000306	A		306
01100	R	000307	A		307
01101	R	000310	A		310
01102	R	000311	A		311
01103	R	000312	A		312
01104	R	000313	A		313
01105	R	000314	A		314
01106	R	000315	A		315
01107	R	000316	A		316
01110	R	000317	A		317
01111	R	000320	A		320
01112	R	000321	A		321
01113	R	000322	A		322
01114	R	000323	A		323
01115	R	000324	A		324
01116	R	000325	A		325
01117	R	000326	A		326
01120	R	000327	A		327
01121	R	000330	A		330
01122	R	000331	A		331
01123	R	000332	A		332
01124	R	000240	A		240
01125	R	000260	A	TABNUM	260
01126	R	000261	A		261
01127	R	000262	A		262
01130	R	000263	A		263
01131	R	000264	A		264
01132	R	000265	A		265
01133	R	000266	A		266
01134	R	000267	A		267
01135	R	000270	A		270
01136	R	000271	A		271

,EJECT

01137 R 000240 A 240
 01140 R 000241 A 241
 01141 R 000242 A 242
 01142 R 000243 A 243
 01143 R 000244 A 244
 01144 R 000245 A 245
 01145 R 000246 A 246
 01146 R 000247 A 247
 01147 R 000250 A 250
 01150 R 000251 A 251
 01151 R 000252 A 252
 01152 R 000253 A 253
 01153 R 000254 A 254
 01154 R 000255 A 255
 01155 R 000256 A 256
 01156 R 000272 A 272
 01157 R 000273 A 273
 01160 R 000274 A 274
 01161 R 000275 A 275
 01162 R 000276 A 276
 01163 R 000277 A 277
 01164 R 000300 A 300
 01165 R 000333 A 333
 01166 R 000334 A 334
 01167 R 000335 A 335
 01170 R 000336 A 336
 01171 R 000337 A 337
 01172 R 000215 A 215
 01173 R 000212 A 212
 01174 R 000000 A 0

.END USERSW

01175 R 000123 R #L
 01176 R 000271 R #L
 01177 R 000775 R #L
 01200 R 000656 R #L
 01201 R 000675 R #L
 01202 R 000655 R #L
 01203 R 000715 R #L
 01204 R 001042 R #L
 01205 R 000716 R #L
 01206 R 001062 R #L
 01207 R 000734 R #L
 01210 R 000754 R #L
 01211 R 000755 R #L
 01212 R 000201 A #L
 01213 R 000304 R #L
 01214 R 000215 A #L
 01215 R 000377 A #L
 01216 R 000017 A #L
 01217 R 001124 R #L
 01220 R 000270 A #L
 01221 R 000007 A #L
 01222 R 000010 A #L

PAGE 19

LT1519 SRC

LT15/19 SYSTEM EXERCISER TEST

01223 R 000002 A *L
01224 R 000001 A *L
01225 R 000676 R *L
01226 R 740000 A *L
01227 R 704024 A *L
01230 R 704044 A *L
01231 R 000774 R *L
01232 R 000602 R *L
01233 R 001043 R *L

SIZE=01260

NO ERROR LINES

CHKFLG	00510	R	CHKONE	00432	R	CHKREC	00224	R	CHKSEL	00503	R
CHKTRN	00150	R	CKFLG1	00517	R	CKFLG2	00542	R	CKREC1	00233	R
CKTRN1	00161	R	CLRFLG	00637	R	CMPUTE	00327	R	DATASW	00010	R
DSTSW1	00122	R	DSTSW2	00270	R	EBA	707764	A	ECOTTY	00277	R
EEM	707702	A	ERCODE	00022	R	ERROR1	00615	R	EXIT	00143	R
EXITM5	00605	R	EXTCKF	00532	R	EXTCK2	00555	R	EXTECO	00350	R
FLGDRV	01035	R	HOLDSW	00565	R	HOLD,1	00602	R	HOLSET	01036	R
INIT	00031	R	KRBMO	01042	R	KRB1	00755	R	KRB10	00766	R
KRB11	00767	R	KRB12	00770	R	KRB13	00771	R	KRB14	00772	R
KRB15	00773	R	KRB16	00774	R	KRB2	00756	R	KRB3	00757	R
KRB4	00760	R	KRB5	00761	R	KRB6	00762	R	KRB7	00763	R
KRB8	00764	R	KRB9	00765	R	KSF1	00735	R	KSF10	00746	R
KSF11	00747	R	KSF12	00750	R	KSF13	00751	R	KSF14	00752	R
KSF15	00753	R	KSF16	00754	R	KSF2	00736	R	KSF3	00737	R
KSF4	00740	R	KSF5	00741	R	KSF6	00742	R	KSF7	00743	R
KSF8	00744	R	KSF9	00745	R	LAW	00046	R	LONTTY	01040	R
LOOPA	01015	R	MODESW	01037	R	NOFLAG	00610	R	PRTTAB	01062	R
PRT1A	01043	R	PRT10	01054	R	PRT12A	01055	R	PRT13A	01056	R
PRT14A	01057	R	PRT15A	01060	R	PRT16A	01061	R	PRT2A	01044	R
PRT3A	01045	R	PRT4A	01046	R	PRT5A	01047	R	PRT6A	01050	R
PRT7A	01051	R	PRT8A	01052	R	PRT9A	01053	R	RECA	00271	R
RECB	00304	R	REPONT	00424	R	RESPRT	00217	R	RUBOUT	00341	R
SAVDST	01033	R	SAVEAC	01034	R	SAVNUM	01031	R	SELECT	00460	R
SELNXT	00465	R	SERVCE	00115	R	SETPRT	00624	R	SILENC	00373	R
SILEXT	00421	R	SILNC1	00407	R	SYSERR	00020	R	TABNUM	01125	R
TCF1	00716	R	TCF10	00727	R	TCF11	00730	R	TCF12	00731	R
TCF13	00732	R	TCF15	00733	R	TCF16	00734	R	TCF2	00717	R
TCF3	00720	R	TCF4	00721	R	TCF5	00722	R	TCF6	00723	R
TCF7	00724	R	TCF8	00725	R	TCF9	00726	R	TEMP1	01017	R
TEMP10	01030	R	TEMP2	01020	R	TEMP3	01021	R	TEMP4	01022	R
TEMP5	01023	R	TEMP6	01024	R	TEMP7	01025	R	TEMP8	01026	R
TEMP9	01027	R	TLSMO	01041	R	TLS1	00656	R	TLS10	00667	R
TLS11	00670	R	TLS12	00671	R	TLS13	00672	R	TLS14	00673	R
TLS15	00674	R	TLS16	00675	R	TLS2	00657	R	TLS3	00660	R
TLS4	00661	R	TLS5	00662	R	TLS6	00663	R	TLS7	00664	R
TLS8	00665	R	TLS9	00666	R	TRNSMT	00074	R	TSF1	00676	R
TSF10	00707	R	TSF11	00710	R	TSF12	00711	R	TSF13	00712	R
TSF14	00713	R	TSF15	00714	R	TSF16	00715	R	TSF2	00677	R
TSF3	00700	R	TSF4	00701	R	TSF5	00702	R	TSF6	00703	R
TSF7	00704	R	TSF8	00705	R	TSF9	00706	R	TTYHOL	01032	R
TTYIOT	00655	R	TTY1	00775	R	TTY10	01006	R	TTY11	01007	R
TTY12	01010	R	TTY13	01011	R	TTY14	01012	R	TTY15	01013	R
TTY16	01014	R	TTY2	00776	R	TTY3	00777	R	TTY4	01000	R
TTY5	01001	R	TTY6	01002	R	TTY7	01003	R	TTY8	01004	R
TTY9	01005	R	TYPEQM	00324	R	USERSW	00000	R	WAITCT	01016	R

USERSW	00000	R	DATASW	00010	R	SYSERR	00020	R	ERCODE	00022	R
INIT	00031	R	LAW	00046	R	TRNSMT	00074	R	SERVCE	00115	R
DSTSW1	00122	R	EXIT	00143	R	CHKTRN	00150	R	CKTRN1	00161	R
RESPRT	00217	R	CHKREC	00224	R	CKREC1	00233	R	DSTSW2	00270	R
RECA	00271	R	ECOTTY	00277	R	RECB	00304	R	TYPEQM	00324	R
CMPUTE	00327	R	RUBQUT	00341	R	EXTECO	00350	R	SILENC	00373	R
SILNC1	00407	R	SILEXT	00421	R	REPONT	00424	R	CHKONE	00432	R
SELECT	00460	R	SELNXT	00465	R	CHKSEL	00503	R	CHKFLG	00510	R
CKFLG1	00517	R	EXTCKF	00532	R	CKFLG2	00542	R	EXTCK2	00555	R
HOLD5W	00565	R	HOLD,1	00602	R	EXITM5	00605	R	NOFLAG	00610	R
ERROR1	00615	R	SETPRT	00624	R	CLRFLG	00637	R	TTYIOT	00655	R
TLS1	00656	R	TLS2	00657	R	TLS3	00660	R	TLS4	00661	R
TLS5	00662	R	TLS6	00663	R	TLS7	00664	R	TLS8	00665	R
TLS9	00666	R	TLS10	00667	R	TLS11	00670	R	TLS12	00671	R
TLS13	00672	R	TLS14	00673	R	TLS15	00674	R	TLS16	00675	R
TSF1	00676	R	TSF2	00677	R	TSF3	00700	R	TSF4	00701	R
TSF5	00702	R	TSF6	00703	R	TSF7	00704	R	TSF8	00705	R
TSF9	00706	R	TSF10	00707	R	TSF11	00710	R	TSF12	00711	R
TSF13	00712	R	TSF14	00713	R	TSF15	00714	R	TSF16	00715	R
TCF1	00716	R	TCF2	00717	R	TCF3	00720	R	TCF4	00721	R
TCF5	00722	R	TCF6	00723	R	TCF7	00724	R	TCF8	00725	R
TCF9	00726	R	TCF10	00727	R	TCF11	00730	R	TCF12	00731	R
TCF13	00732	R	TCF15	00733	R	TCF16	00734	R	KSF1	00735	R
KSF2	00736	R	KSF3	00737	R	KSF4	00740	R	KSF5	00741	R
KSF6	00742	R	KSF7	00743	R	KSF8	00744	R	KSF9	00745	R
KSF10	00746	R	KSF11	00747	R	KSF12	00750	R	KSF13	00751	R
KSF14	00752	R	KSF15	00753	R	KSF16	00754	R	KRB1	00755	R
KRB2	00756	R	KRB3	00757	R	KRB4	00760	R	KRB5	00761	R
KRB6	00762	R	KRB7	00763	R	KRB8	00764	R	KRB9	00765	R
KRB10	00766	R	KRB11	00767	R	KRB12	00770	R	KRB13	00771	R
KRB14	00772	R	KRB15	00773	R	KRB16	00774	R	TTY1	00775	R
TTY2	00776	R	TTY3	00777	R	TTY4	01000	R	TTY5	01001	R
TTY6	01002	R	TTY7	01003	R	TTY8	01004	R	TTY9	01005	R
TTY10	01006	R	TTY11	01007	R	TTY12	01010	R	TTY13	01011	R
TTY14	01012	R	TTY15	01013	R	TTY16	01014	R	LOOPA	01015	R
WAITCT	01016	R	TEMP1	01017	R	TEMP2	01020	R	TEMP3	01021	R
TEMP4	01022	R	TEMP5	01023	R	TEMP6	01024	R	TEMP7	01025	R
TEMP8	01026	R	TEMP9	01027	R	TEMP10	01030	R	SAVNUM	01031	R
TTYHOL	01032	R	SAVDST	01033	R	SAVEAC	01034	R	FLGDRV	01035	R
HOLSET	01036	R	MODESW	01037	R	LONTTY	01040	R	TLSMO	01041	R
KRBMO	01042	R	PRT1A	01043	R	PRT2A	01044	R	PRT3A	01045	R
PRT4A	01046	R	PRT5A	01047	R	PRT6A	01050	R	PRT7A	01051	R
PRT8A	01052	R	PRT9A	01053	R	PRT10	01054	R	PRT12A	01055	R
PRT13A	01056	R	PRT14A	01057	R	PRT15A	01060	R	PRT16A	01061	R
PRTTAB	01062	R	TABNUM	01125	R	EEM	707702	A	EBA	707764	A