1.0.0 BSCA 3270 RESPONDER
1.1.0 PURPOSE

THIS PROGRAM WILL TEST THE BINARY SYNCHRONOUS COMMUNICATION ATTACHMENT TO A
3270 TERMINAL. THE PROGRAM WILL USE EXTENDED BINARY CODED DECIMAL INTERCHANGE
CODE (EBCDIC) OR AMERICAN STANDARD CODE FOR INFORMATION INTERCHANGE (ASCII).
IT WILL RUN ON SWITCHED LINES OR LEASED LINES. THIS PROGRAM ALSO HAS TRANSMIT
AND RECEIVE LOOPS WHICH MAY BE SELECTED BY OPTION BITS.

1.2.0 OPERATING INSTRUCTIONS

THE PROGRAM IS ON DISKETTE P/N 1635001.

1.2.1 PROGRAM

THIS PROGRAM WILL RUN WITH THE DIAGNOSTIC CONTROL PROGRAM (DCP) AND WILL
OPERATE IN THE MANUAL MODE ONLY.

1.2.2 EQUIPMENT

TRANSMISSION SPEED IS DETERMINED BY THE EXTERNAL MODEM CLOCK.   IF THE
INTERNAL CLOCK JUMPER IS INSTALLED, THE TRANSMISSION SPEED WILL BE 1200 BPS,
OR 600 BPS IF HALF RATE IS SELECTED BY OPTION WORD 2 BIT 5.

1.2.3 OPERATING PROCEDURES

AFTER LOADING THE PROGRAM (F0E6), ENTER THE DESIRED OPTION BITS. IF THE CONSOLE
FUNCTION IS ASSIGNED TO THE PROGRAMMER CONSOLE, SEE DIAGNOSTIC SERVICE GUIDE
07.01.00 FOR COMMAND/RESPONSE PROCEDURES.

USE DCP COMMAND 'B' FOR LOAD AND GO. USE DCP COMMANDS 'C', 'D', 'A' TO EXECUTE
WITH OPTIONS PER OPTION WORDS 1 AND 2.

EXAMPLE:
 ALTERNATE CONSOLE | PROGRAMMER CONSOLE

 BF0E6 | (B),B,(I),F,0,E,6,(I),(I)
WILL CAUSE PROGRAM TO LOAD AND START WITHOUT OPTIONS. HALT F086 WILL BE
DISPLAYED (SEE 1.4.4 BELOW.)

 CF0E6 | NOT USED
WILL CAUSE THE PROGRAM TO LOAD AND WAIT FOR OPTION SELECTIONS. WHEN HALT 3814
(ENTER) IS DISPLAYED:

 DXXXXXXXX | (B),2,D,(I),(B),X,X,X,X,(I),(B),X,X,X,
                             X,(I),(I)
WILL SELECT OPTIONS PER MASK XXXXXXXX. AT THE NEXT HALT 3814 (ENTER)

 A | (B),A,(I),(I)
WILL CAUSE PROGRAM TO START. HALT F086 (DEVADD) WILL BE DISPLAYED.   (SEE 1.4.4
BELOW.)

 OPTIONS XXXXXXX (HALT F080)

THIS MESSAGE WILL PRINT WITH XXXXXXX=OPTIONS SET.   AT THIS TIME DESIRED
OPTIONS SHOULD BE SET USING COMMAND 'D' TO SET ON AND COMMAND 'E' TO RESET.
AFTER OPTIONS ARE ENTERED OR IF NO CHANGE IS DESIRED, ENTER COMMAND '6' TO
RESUME PROGRAM.   AFTER OPTIONS ARE ENTERED, THIS MESSAGE WILL PRINT AGAIN
WITH XXXXXXX = OPTIONS NOW SET.

 OPTION WORD 1

BIT 0   TERMINATE
           DCP PROGRAM IS TERMINATED WHEN BIT ON
BIT 1   NOT USED
BIT 2   NOT USED
BIT 3   NOT USED

BIT 4   BYPASS DISPLAY MESSAGES
BIT 5   BYPASS DISPLAY MESSAGES
BIT 6   NOT USED
BIT 7   RESERVED

BIT 8   DO NOT PRINT CONFIGURATION INFORMATION. SEE 1.4.1.
BIT 9   NOT USED
BIT 10   NOT USED
BIT 11   NOT USED

```
BIT 12              NOT USED
BIT 13              NOT USED
BIT 14              NOT USED
BIT 15              NOT USED
```

```
     OPTION WORD 2
```

BIT 0   DISPLAY COMMAND TRACE. SEE 1.4.26.

BIT 1   DO NOT CLEAR LOG AFTER PRINT. SEE 1.4.32.

BIT 2   NOT USED

BIT 3   NOT USED

BIT 4   DISPLAY LINE ACTION MESSAGES. SEE 1.4.6 THROUGH 1.4.25

BIT 5   HALF RATE
                   TRANSMISSION SPEED WILL BE 600 BPS INTERNAL CLOCK. SEE 1.2.2.

BIT 6   NOT USED

BIT 7   NOT USED

BIT 8   NOT USED

BIT 9   DISPLAY THE LOG BETWEEN ROUTINES. SEE 1.4.32.

BIT 10   NOT USED

BIT 11   PERMIT CHAIN TO RECEIVE IN THE TRANSMIT LOOP.
                   WHEN THIS BIT IS OFF, THE ROUTINE WILL ONLY TRANSMIT. SET ON OPTION WORD 2
                   BIT 15 TO SELECT THE TRANSMIT ROUTINE.

BIT 12   NOT USED

BIT 13   NOT USED

BIT 14   SELECT RECEIVE LOOP. SEE 1.5.1.

BIT 15   SELECT TRANSMIT LOOP. SEE 1.5.0.

1.3.0 COMMENTS

THIS PROGRAM COMMUNICATES WITH SEVERAL TYPES OF 3270 CONTROLLERS. THE CONTROLLER ADDRESS MUST BE ZERO . THE PROGRAM WILL SEND A BASIC POLL TO THE CONTROLLER. STATUS MESSAGES FROM THE CONTROLLER OR THE DEVICES WILL BE DISPLAYED AT THE SERIES/1. A STATUS MESSAGE MAY BE GENERATED IF YOU POWER-OFF THE TERMINAL AND THEN POWER-ON THE TERMINAL AND IT BECOMES READY. WHEN A CORRECT RESPONSE IS RECEIVED, THE PROGRAM WILL SEND A MESSAGE TO THE DISPLAY TERMINAL WHICH MUST BE AT DEVICE ADDRESS ZERO. THIS MESSAGE WILL DIRECT THE OPERATOR TO MAKE AN ENTRY TO REQUEST A TEST MESSAGE TO BE SENT TO THE 3270. THE PROGRAM WILL THEN SPECIFIC POLL THE 3270 FOR INPUT DATA. THE OPERATOR MAY USE NINE DIFFERENT MESSAGES WHICH ARE FOR MODEL 1 AND MODEL 2 DISPLAY, AS WELL AS PRINTER TEXT. THE OPERATOR CAN REQUEST THE TEXT UP TO 99 TIMES AND SEND THE TEXT TO ANOTHER DEVICE ATTACHED TO THE 3270 CONTROLLER. THE OPERATOR CAN RETURN TO THE 3270 OPTION BY PRESSING THE 'TEST REQ' KEY ON THE 3270 KEYBOARD. THIS PROGRAM WILL TEST THE DATA PATH BETWEEN THE SERIES/1 AND THE 3270 TERMINAL. STATUS INFORMATION WILL BE AVAILABLE TO THE OPERATOR. THE TRACE LOG AT THE SERIES/1 SHOWS ALL THE TRANSMITTED AND RECEIVED DATA.

1.4.0 MESSAGES

1.4.1 F0B2

THIS HALT IS USED FOR TWO OTHER MESSAGES. SEE SECTION 1.4.32.

A COMBINATION OF THE FOLLOWING WILL PRINT TO SHOW THE JUMPER OPTIONS AND STATUS
OF THE INTERFACE LINES. THIS MESSAGE WILL NOT PRINT IF OPTION WORD 1 BIT 8 IS
SET ON.

```
SWLN         SWITCHED LINE (MULTIPOINT ADDRESS BIT 7 ON)
LELN         LEASED LINE (MULTIPOINT ADDRESS BIT 7 OFF)
MPLN         MULTIPOINT LINE (MULTIPOINT MODE JUMPER ON)
DTR          DATA TERMINAL READY (DTR JUMPER ON OR MODEM DTR ON)
DSR          DATA SET READY (MODEM LINE ACTIVE)
RTS          REQUEST TO SEND (RTS JUMPER ON OR MODEM RTS ON)
CTS          CLEAR TO SEND (MODEM LINE ACTIVE)
BMC          INTERNAL CLOCK JUMPER ON
XX           MULTIPOINT ADDRESS JUMPERED
YY           NUMBER OF LINES IF MULTI-LINE
```

1.4.2 F080
OPTIONS XXXXXXXX

ENTER DESIRED OPTION BITS. SEE SECTION 1.2.3.

1.4.3 F081
ASCII?

ENTER COMMAND '1' (YES) IF YOU WANT TO SELECT ASCII CODE. ENTER COMMAND '0'
(NO) IF YOU WANT TO SELECT EBCDIC CODE.

1.4.4 F086
DEVADD

ENTER THE DEVICE ADDRESS (HEXADECIMAL).
USE DCP COMMAND 'F' TO ENTER ONE (1) HEXADECIMAL WORD.

EXAMPLE

IF DEVICE ADDRESS IS HEXADECIMAL '18', THEN THIS ENTRY WOULD BE 'F18'.
PROGRAMMER CONSOLE ENTRY -- (B),1,F,(I),(B),1,8,0,0,(I),(I).

1.4.5 F08C
RSPNDR-XXXXXX

THIS WILL PRINT IF THE RESPONDER ROUTINE IS SELECTED. THE RESPONDER ROUTINE
IS AUTOMATICALLY SELECTED UNLESS YOU SELECT THE TRANSMIT ROUTINE OR THE
RECEIVE ROUTINE USING OPTION WORD 2.

XXXXX = ASCII IF ASCII CODE IS SELECTED.
XXXXX = EBCDIC IF EBCDIC CODE IS SELECTED.

1.4.6 F08E
*BLC

RECEIVED A BLOCK CANCEL - START OF TEXT (STX), TEXT, INQUIRY (ENQ).   THIS
MESSAGE WILL PRINT ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

1.4.7 F08F
*XSTX

RECEIVED A TRANSPARENT START OF TEXT - DATA LINK ESCAPE (DLE), START OF TEXT
(STX). THIS MESSAGE WILL PRINT ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

1.4.8 F090
*STX

RECEIVED A START OF TEXT (STX) CHARACTER. THIS MESSAGE WILL PRINT ONLY IF
OPTION WORD 2 BIT 4 IS SET ON.

     1.4.9 F091
ENQ

     INQUIRY CHARACTER (HEXADECIMAL '2D' IN EBCDIC) TRANSMITTED.   THIS   MESSAGE
     WILL PRINT ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.10 F092
*ENQ

     INQUIRY CHARACTER (HEXADECIMAL '2D' IN EBCDIC) RECEIVED.   THIS MESSAGE WILL
     PRINT ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.11 F094
*ACK0

     RECEIVED AN EVEN-NUMBERED ACKNOWLEDGMENT (ACK0).   THIS   MESSAGE   WILL   PRINT
     ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.12 F095
*ACK1

     RECEIVED AN ODD-NUMBERED ACKNOWLEDGMENT (ACK1).   THIS MESSAGE WILL PRINT
     ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.13 F096
NAK

     TRANSMIT A NEGATIVE ACKNOWLEDGMENT. THIS MESSAGE WILL PRINT ONLY IF OPTION
     WORD 2 BIT 4 IS SET ON.

     1.4.14 F097
*NAK

     RECEIVE A NEGATIVE ACKNOWLEDGMENT. THIS MESSAGE WILL PRINT ONLY IF OPTION
     WORD 2 BIT 4 IS SET ON.

     1.4.15 F099
*RFT

     A REQUEST FOR TEST (RFT) MESSAGE WAS RECEIVED. THIS MESSAGE WILL PRINT ONLY
     IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.16 F09A
*WACK

     'WAIT BEFORE TRANSMIT, POSITIVE RESPONSE' RECEIVED. THIS MESSAGE WILL PRINT
     ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.17 F09B
*RVI

     RECEIVED A REVERSE INTERRUPT SEQUENCE. THIS MESSAGE WILL PRINT ONLY IF
     OPTION WORD 2 BIT 4 IS SET ON.

     1.4.18 F09C
TXT

     TEXT WAS TRANSMITTED.
     START OF TEXT (STX), DATA, END OF TEXT (ETX). THIS MESSAGE WILL PRINT ONLY
     IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.19 F09D
*TXT

     TEXT WAS RECEIVED.
     START OF TEXT (STX), DATA, END OF TEXT (ETX). THIS MESSAGE WILL PRINT ONLY
     IF OPTION WORD 2 BIT 4 IS SET ON.

     1.4.20 F09E
EOT
     END OF TRANSMISSION (EOT) CHARACTER TRANSMITTED. THIS MESSAGE WILL PRINT
     ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

1.4.21 F09F
*EOT

    END OF TRANSMISSION (EOT) CHARACTER RECEIVED. THIS MESSAGE WILL PRINT ONLY
    IF OPTION WORD 2 BIT 4 IS SET ON.

1.4.22 F0A0
*TTD

    TEMPORARY TEXT DELAY (TTD) RECEIVED. THIS MESSAGE WILL PRINT ONLY IF OPTION
    WORD 2 BIT 4 IS SET ON.

1.4.23 F0A1
DISC

    TRANSMIT THE DISCONNECT SEQUENCE.
    DATA LINK ESCAPE (DLE), END OF TRANSMISSION (EOT).

1.4.24 F0A2
ACK0

    TRANSMIT AN EVEN-NUMBERED ACKNOWLEDGMENT (ACK0). THIS MESSAGE WILL PRINT
    ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

1.4.25 F0A3
ACK1

    TRANSMIT AN ODD-NUMBERED ACKNOWLEDGMENT (ACK1).   THIS MESSAGE WILL PRINT
    ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

1.4.26 F0A7
XXXX ZZZZ

    THIS MESSAGE WILL PRINT BEFORE EACH COMMAND IF OPTION WORD 2 BIT 0 IS SET
    ON.

    XXXX VALUE   MEANING
    ----------   -------

    SCSS   START CYCLE STEAL STATUS COMMAND
    RSIO   RECEIVE COMMAND
    XSIOZZZZ   TRANSMIT COMMAND, ZZZZ = TRANSMIT DATA ADDRESS
    PREP   PREPARE DEVICE WITH THE 'I BIT' ON
    UPRP   PREPARE DEVICE WITH THE 'I BIT' OFF
    RDID   READ IDENTIFICATION COMMAND
    RSET   RESET COMMAND
    DDTR   DISABLE DATA TERMINAL READY COMMAND
    EDTR   ENABLE DATA TERMINAL READY COMMAND

1.4.27 F0A8
IIB=XX,S/B YY OR ZZ

    XX = THE INTERRUPT INFORMATION BYTE (IIB), A BYTE OF INFORMATION WHICH SHOWS
         THE LAST RECEIVED RESPONSE.
    YY OR ZZ = THE EXPECTED INTERRUPT INFORMATION BYTE (IIB) VALUE.

XX, YY, ZZ =   00   TEXT (WITH NO ERRORS)
                 01   (NAK) NEGATIVE ACKNOWLEDGMENT
                 03   (EOT) END OF TRANSMISSION
                 04   NOT VALID SEQUENCE
                 0B   RVI (REVERSE INTERRUPT)
                 0E   TTD (TEMPORARY TEXT DELAY)
                 0F   DISCONNECT SEQUENCE
                 10   WACK (WAIT BEFORE TRANSMIT, POSITIVE RESPONSE)
                 18   INQUIRY (ENQ)
                 1B   ACK0 (EVEN-NUMBERED ACKNOWLEDGMENT) OR ACK1 (ODD-NUMBERED
                      ACKNOWLEDGMENT)
                 33   NO RESPONSE (TIMEOUT)
                 44   DATA SET NOT READY
                 71   REQUEST FOR TEST

1.4.28 F0A9
ADDRXXXX

    XXXX = ADDRESS OF DECODE WHEN NO COMPARE OCCURS. THIS CAN BE USED WITH THE
    PROGRAM LIST TO FIND THE ERROR.

   1.4.29 F0AA
*DISC

         RECEIVED THE DISCONNECT SEQUENCE.
         DATA LINK ESCAPE (DLE), END OF TRANSMISSION (EOT). THIS MESSAGE WILL PRINT
         ONLY IF OPTION WORD 2 BIT 4 IS SET ON.

   1.4.30 F0B0
T.O.

         A TIMEOUT OCCURRED DURING A RECEIVE OPERATION.

   1.4.31 F0B1
ID ERROR XXXX

         THIS WILL PRINT IF THERE IS A DEVICE IDENTIFICATION ERROR.
         XXXX = THE IDENTIFICATION RECEIVED.

         FOR SINGLE LINE, THE READ IDENTIFICATION = 1006.
         FOR MULTI-LINE, THE READ IDENTIFICATION = 2X06.
             WHERE X=0 IF 8 LINES
                   X=1 IF 2 LINES
                   X=2 IF 4 LINES
                   X=3 IF 6 LINES

   1.4.32 F0B2
XXXX YYYY ZZZZ

          THIS HALT IS USED TO PRINT THE STATUS WORDS. SEE BELOW. THIS HALT IS ALSO
          USED FOR THE CONFIGURATION MESSAGE. SEE SECTION 1.4.1. THIS HALT IS ALSO
          USED TO PRINT THE DATA LOG. SEE BELOW FOR EXAMPLE.

          STATUS WORDS 0,1,AND 2

          XXXX = STATUS WORD ZERO
          YYYY = STATUS WORD ONE
          ZZZZ = STATUS WORD TWO

     WORD ZERO

     0 THROUGH 15: MAIN STORAGE ADDRESS OF LAST ATTEMPTED CYCLE
                   STEAL MOVE

     WORD ONE

     0   OVERRUN
     1   TIME-OUT
     2   MODEM INTERFACE ERROR
     3   BLOCK CHECK ERROR
     4   MULTIPOINT TRANSMIT ERROR
     5   ANSWERTONE JUMPER INSTALLED
     6   MULTIPOINT TRIBUTARY JUMPER INSTALLED
     7   INTERNAL CLOCK JUMPER INSTALLED
     8 THROUGH 15 MULTIPOINT ADDRESS

     WORD TWO

     0   DATA TERMINAL READY
     1   DATA SET READY
     2   REQUEST TO SEND
     3   CLEAR TO SEND
     4   RING INDICATOR
     5   HALF RATE SELECTED
     6   TRANSMIT MODE LATCH
     7   NOT USED (WILL BE OFF)
     8 THROUGH 15 INDICATOR PANEL SWITCH SETTING

          HALT F0B2 IS ALSO USED TO PRINT THE DATA LOG. THE DATA LOG WILL PRINT IF
          OPTION WORD 2, BIT 9 IS ON. IT CONTAINS ALL TRANSMITTED AND RECEIVED DATA.
          THE LOG WILL PRINT AT THE START AND THE END OF PROGRAM. IT WILL BE CLEARED
          AFTER PRINTING, UNLESS DCP OPTION WORD 2, BIT 1 IS ON. IF THE DATA IS TOO
          LONG, THEN THE OLDEST DATA WILL BE LOST.

         LOG EXAMPLE
           X61F7F5F261D5D2F561F4F9F5F32D X61F7F5F261D5D2F561F4F9F5F32D
           X61F7F5F261D5D2F561F4F9F5F32D R1070 X016CF1F4F0F1F032320261
         F7F5F261D5D2F561F4F9F5F3D403 R1061 X37 R2D X1070 R02C1C2C3C4
         C5C6C7C8C9D1D2D3D4D5D6D7D8D9E2E3E4E5E6E7E8E9F0F1F2F3F4F5F6F7
         F8F903 X1061 R37<-

         R IS FOLLOWED BY RECEIVE DATA.
         X IS FOLLOWED BY TRANSMIT DATA.
         THE '<-' INDICATES END OF LOG.

         IF USING THE PROGRAMMER CONSOLE AND LOOKING AT THE LOG IN STORAGE

         '2222' REPRESENTS RECEIVE
         '4444' REPRESENTS TRANSMIT
         '9999' REPRESENTS END OF DATA ('<-' WHEN PRINTED)
         '8888' REPRESENTS PART OF BUFFER NOT USED (BUFFER WAS LOADED WITH THIS
         VALUE)

      1.4.33 F0B3
CFIG

         THE DISKETTE CONFIGURATION DOES NOT MATCH THE HARDWARE.

      1.4.34 F0B4
OVERRUN

         DATA OVERRUN OCCURRED.

      1.4.35 F0B5
MODEM ERROR

         THE MODEM WAS NOT READY WHEN A TRANSMIT OR RECEIVE OPERATION WAS ATTEMPTED.

      1.4.36 F0B6
BCC ERROR

         BLOCK CHECK ERROR RECEIVED.

      1.4.37 F0B7
MP TRANSMIT ERROR

         A TRANSMIT WAS ATTEMPTED WHEN NOT SELECTED AND 'MULTIPOINT TRIBUTARY' IS
         JUMPERED ON.

      1.4.38 F0B8
ENTER AGAIN

         A WRONG ENTRY WAS MADE.

      1.4.39 F0BB
NO INT

         NO INTERRUPT OCCURRED IN THE EXPECTED TIME.

      1.4.40 F0BC
NOT ATTACHED

         THE DEVICE IS NOT ATTACHED.

      1.4.41 F0BD
D.S.NRDY

         THIS WILL PRINT IF THE DATA SET IS NOT READY. THE OPERATOR MUST MAKE THE
         DATA SET READY BEFORE THE PROGRAM WILL START. AFTER 60 SECONDS THIS MESSAGE
         WILL PRINT AGAIN. THE PROGRAM WILL LOOP UNTIL THE DATA SET IS READY.

```
    1.4.42 F0BE
ISBXX
```

INTERRUPT STATUS BYTE (ISB)

```
   VALUE      MEANING

XX = 0        DEVICE NEEDED STATUS AVAILABLE
     1        DELAYED COMMAND REJECT
     2        NOT CORRECT LENGTH RECORD
     3        DCB SPECIFICATION CHECK
     4        STORAGE DATA CHECK
     5        STORAGE ADDRESS NOT VALID
     6        PROTECT CHECK
     7        INTERFACE DATA CHECK
```

```
    1.4.43 F0BF
OIOCC=XX
```

THIS MESSAGE WILL PRINT IF AN OPERATE INPUT / OUTPUT (OIO) CONDITION CODE
OCCURS.

```
   VALUE         MEANING

XX = 00          NOT ATTACHED
     01          BUSY
     02          BUSY AFTER RESET
     03          COMMAND REJECT
     04          INTERVENTION NEEDED
     05          INTERFACE DATA CHECK
     06          CONTROLLER BUSY
     07          SATISFACTORY
```

```
    1.4.44 F0C0
INTCC=XX
```

THIS MESSAGE WILL PRINT IF AN INTERRUPT CONDITION CODE OCCURS.

INTERRUPT CONDITION CODES

```
   VALUE         MEANING

XX = 00          CONTROLLER END
     01          NOT USED OR GENERATED BY THE ADAPTER
     02          EXCEPTION
     03          DEVICE END
     04-07       NOT USED OR GENERATED BY THE ADAPTER
```

```
    1.4.45 F0C1
3275 ?
```

ENTER COMMAND '1' (YES) IF THE REMOTE TERMINAL IS A 3275 TERMINAL.   ENTER
COMMAND '0' (NO) IF THE REMOTE TERMINAL IS NOT A 3275 TERMINAL.

```
    1.4.46 F0C2
W/DIAL?
```

ENTER COMMAND '1' (YES) IF THE 3275 TERMINAL HAS THE DIAL FEATURE.   ENTER
COMMAND '0' (NO) IF THE 3275 TERMINAL DOES NOT HAVE THE DIAL FEATURE.

```
    1.4.47 F0C3
AID=XX
```

XX = THE CODE FOR THE KEY PRESSED ON THE 3270 DISPLAY KEYBOARD.

```
    1.4.48 F0C4
CU/DA=XXXX ,STAT=YYYY
```

XXXX = THE CONTROL UNIT AND DEVICE ADDRESS.
YYYY = THE STATUS OF THE UNIT.

```
    1.4.49 F0C5
*STATUS
```

A STATUS MESSAGE WAS RECEIVED FROM THE 3270 TERMINAL.

1.5.0   TRANSMIT LOOP

THE PURPOSE OF THIS ROUTINE IS TO TRANSMIT AN OPERATOR ENTERED TEST.   THIS ROUTINE MUST BE SELECTED BY OPTION WORD 2 BIT 15. THE 'DIAGNOSTIC / NORMAL' SWITCH IN 'DIAGNOSTIC' POSITION WILL CAUSE THE ROUTINE TO STOP AFTER EACH PASS. THIS WILL PERMIT SINGLE PASS OPERATION WITH THE 'START' PUSHBUTTON. IF YOU WANT THE ROUTINE TO RUN WITHOUT STOPPING, CHANGE THE 'DIAGNOSTIC / NORMAL' SWITCH TO 'NORMAL'. IF OPTION WORD 2 BIT 11 IS SET, THE ROUTINE WILL CHAIN TO RECEIVE WITH TIMEOUT AFTER EACH TRANSMIT. THE DATA WILL BE STORED IN THE LOG. AFTER THE ROUTINE IS STARTED, ENTER THE DATA. THE TEXT MAY BE ENTERED IN EBCDIC OR TRANSPARENT EBCDIC. CONTROL CHARACTERS MUST BE ENTERED ALSO. IF ASCII MODE IS SELECTED, THE DATA MUST BE ENTERED IN EBCDIC.   THE PROGRAM WILL TRANSLATE THE DATA TO ASCII. SEE 1.4.3 TO SELECT ASCII MODE.

FOR EXAMPLE,

1.   EBCDIC NOT TRANSPARENT,
START OF TEXT (STX)   DATA   END OF TEXT (ETX)

2.   EBCDIC TRANSPARENT,
DATA LINK ESCAPE (DLE)   START OF TEXT (STX)   DATA

THE TERMINATING DATA LINK ESCAPE (DLE), END OF TEXT (ETX) IS GENERATED BY THE PROGRAM WHEN THE FIRST TWO CHARACTERS ARE DATA LINK ESCAPE (DLE) START OF TEXT (STX).

1.5.1   RECEIVE LOOP

THIS ROUTINE MUST BE SELECTED BY OPTION WORD 2 BIT 14.   THIS ROUTINE WILL RECEIVE DATA TRANSMITTED BY A REMOTE STATION. THIS ROUTINE WILL PRINT THE DATA IF OPTION WORD 2 BIT 9 IS SET ON. NO RECEIVE DATA IS STORED IF PRINTING IS IN PROCESS.