

**SDS 940 OLDS DIAGNOSTIC
SYSTEM**

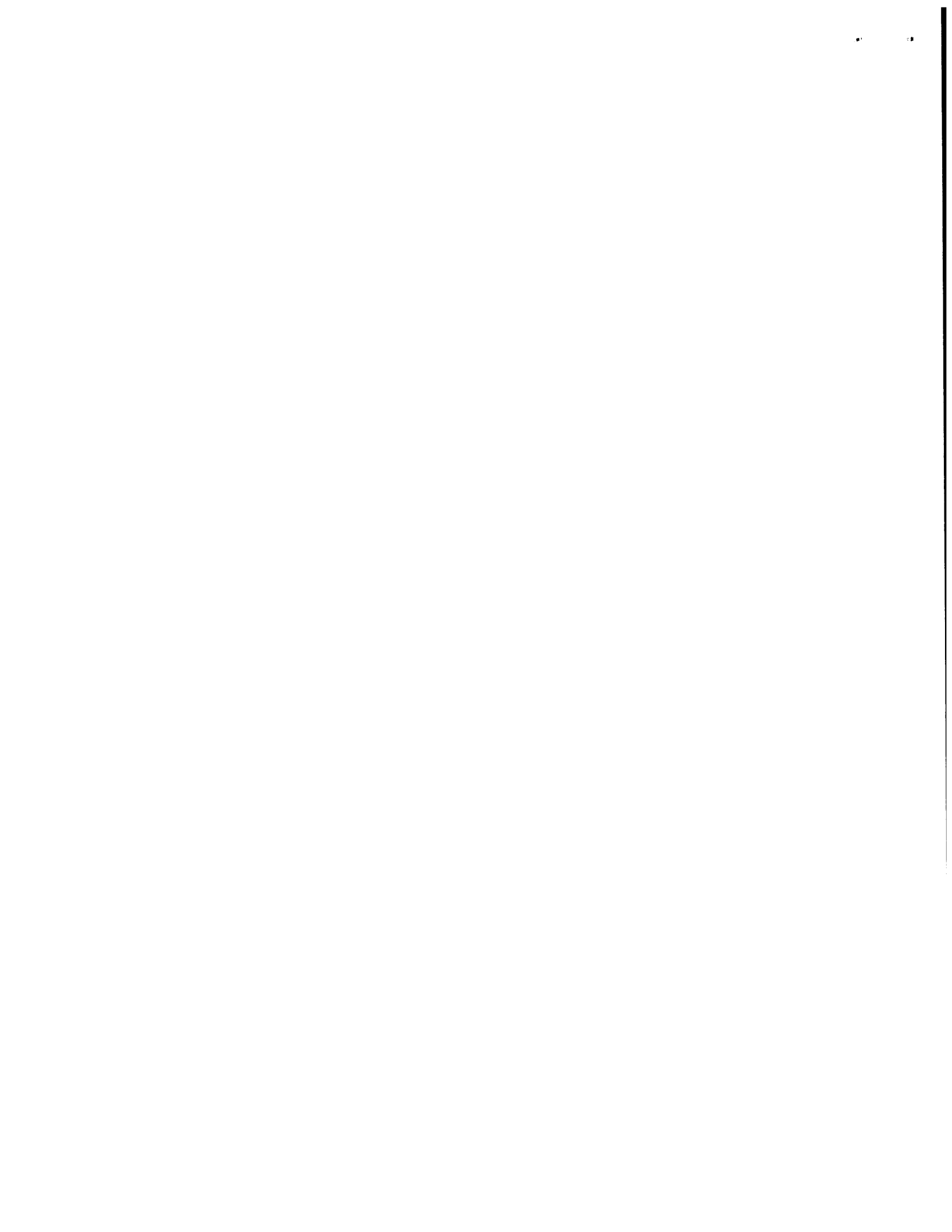
UNIT 23 CTE 10/11 TEST LISTING

SDS 870039-51A

February 1969

SDS

SCIENTIFIC DATA SYSTEMS • 701 South Aviation Boulevard • El Segundo, Calif., 90245 • 213/772-4511



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CTE   TAP=3.0   01/22  08111  PAGE 1
      00010      OCTAL
      *
0 01 00000 ONE   OPD   0100000,1
0 02 00000 TWO   OPD   0200000,1
0 03 00000 THREE OPD   0300000,1
0 04 00000 FOUR  OPD   0400000,1
0 05 00000 FIVE  OPD   0500000,1
0 06 00000 SIX   OPD   0600000,1
0 07 00000 SEVEN OPD   0700000,1
0 10 00000 EIGHT OPD   01000000,1
      *
00000242 INT31 EQU   242
00000243 I31   EQU   243
00000246 INT33 EQU   246
00000247 I33   EQU   247
0000033P FLAGS EQU   332
00000400 JAL   EQU   400
00000401 STATUS EQU  401
00000402 LCKS  EQU  402
00000403 PADSIZ EQU  403
00000404 PSCSIZ EQU  404
00000405 SYSIZE EQU  405
00000406 SEED  EQU  406
00000407 TIME  EQU  407
00000410 AREG  EQU  410
00000411 BREG  EQU  411
00000412 YRFB  EQU  412
00000413 SVRFLB EQU  413
00000414 ERRORS EQU  414
00000415 RL1   EQU  415
00000416 RL2   EQU  416
00000417 PL4   EQU  417
00000420 UNIT  EQU  420
00000424 FUNCTN EQU  424
00000430 SUBJECT EQU  430
00000434 END   EQU  434

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      00000440 RETURN EQU   440
      00000450 DIVERT EQU   450
      00000452 DONE  EQU   452
      00000454 REPORT EQU   454
      00000456 FDONE EQU   456
      00000460 ERROR EQU   460
      CTE   IDENT
      00010      OCTAL
      *
      * CTE=10/11 DIAGNOSTIC 8/20/68
      *
00000 04000 ZERO  BSS   4000
04000 0 20 00420 START NBP   UNIT
04001 0 20 17301 NBP   UPT
04002 0 76 00405 LDA   SYSIZE
04003 0 66 00001 RSH   1
04004 0 14 24505 ETR   #37777600
04005 0 35 17306 STA   FAA
04006 0 76 00401 LDA   STATUS
04007 0 75 24506 LDB   #0
04010 0 72 24507 SKA   #4
04011 0 75 24510 LDB   #1
04012 0 34 20145 STB   FLG940
04013 0 43 00420 BRM   UNIT
04014 0 20 17301 NBP   UPT

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*
FUNC1
04015 0 43 00424 BRM FUNCTN
04016 0 20 17433 NOP FPT1
04017 0 43 00440 BRM RETURN
04020 0 20 15436 NOP GLICH
04021 0 02 20020 ERM 020020
04022 0 13 24511 PBT *00600000
04023 0 02 20004 ERM 020004
04024 0 76 20146 LDA Y01
04025 0 35 15765 STA RDY04
04026 0 35 16002 STA RDY10
04027 0 35 16017 STA RDY16
04030 0 35 16047 STA STAT10
04031 0 35 16064 STA STAT16
04032 0 35 16114 STA BNOF04
04033 0 35 16127 STA BNOF10
04034 0 35 16146 STA BNOF16
04035 0 35 16162 STA BNOF22
04036 0 35 16017 STA CHNL04
04037 0 35 16031 STA CHNL10
04040 0 35 16050 STA CHNL16
04041 0 35 16066 STA CHNL22
04042 0 35 16020 STA BFR06
04043 0 35 16062 STA RECC6
04044 0 35 16102 STA RECC8
04045 0 35 16473 STA XMIT04
04046 0 35 16517 STA XMIT08
04047 0 35 16541 STA XMIT12
04050 0 35 16413 STA XMT104
04051 0 35 16433 STA XMT107
04052 0 35 16450 STA XMT109
04053 0 35 16472 STA XMT112
04054 0 35 16744 STA XMT004
04055 0 35 16764 STA XMT007
04056 0 35 17001 STA XMT009
04057 0 35 17023 STA XMT012

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

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04060 0 35 17075 STA BVRN04
04061 0 35 17115 STA BVRN08
04062 0 35 17117 STA BVRN09
04063 0 35 17154 STA BVRN12

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```
*
* TEST PBT/PIN CONNECTIONS
*
04064 0 43 00430 F0100A BRM OBJECT
04065 2 02*37777 EDM* 037777,2 SELECT CTE=10
04066 0 13 24512 PBT #00120000 PBT TO PBT LINES
04067 0 71 24513 LDX #077772327 5 MS DELAY
04070 0 41 04070 BRX *
04071 2 02*37777 EDM* 037777,2 SELECT CTE=10
04072 0 33 21132 PIN PINWD1 PIN THE PIN LINES
04073 0 43 01434 BRM END
```

```
*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
04074 0 43 00430 F0101A BRM OBJECT
04075 2 02*37777 EDM* 037777,2 SELECT CTE=10
04076 0 33 20132 PIN PINWD1 PIN THE PIN LINES
04077 0 76 20132 LDA PINWD1 SCANNER VALUE TO A
04100 0 20 00000 NBP 0 CD17BAR=CD23BAR
04101 0 20 00000 NBP 0
04102 2 02*37777 EDM* 037777,2 SELECT CTE=10
04103 0 33 20132 PIN PINWD1 PIN THE PIN LINES
04104 0 50 20132 SKE PINWD1 COMPARE PIN VALUES
04105 0 01 04110 BRU F0101C SCANNER CHANGING
04106 0 43 00460 BRM ERROR SCANNER NOT CHANGING
04107 0 20 21302 NBP M0101A
04110 0 43 00434 F0101C BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 00
*
04111 0 43 00430 F0102A BRM OBJECT
04112 0 71 24506 LDX #0
04113 0 43 17166 BRM JMSG
04114 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04115 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04116 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04117 2 40*36400 SKS# 036400,2 TEST READY, CHANNEL 00
04120 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 00
*
04121 0 43 00430 F0103A BRM OBJECT
04122 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04123 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04124 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04125 2 40*36200 SKS# 036200,2 TEST CHANNEL STATUS, CHANNEL 00
04126 0 43 00434 BRM END
```

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```
*
* TEST BN/OFF INTERRUPT, CHANNEL 00
*
04127 0 43 00430 F0104A BRM 0BJECT
04130 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04131 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04132 0 43 16170 BRM 0N0FFS TEST THE 0N/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
04133 2 40*36200 SKS# 036200,2 TEST CHANNEL STATUS, CHANNEL 00
04134 0 43 00434 BRM 0ND
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 00
*
04135 0 43 00430 F0105A BRM 0BJECT
04136 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04137 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04140 0 71 24506 LDX #000 CHANNEL ADDRESS 00
04141 0 43 16172 BRM 0N0LAD TEST THE CHANNEL ADDRESSING CAPABILITY
04142 0 43 00434 BRM 0ND
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 00
*
04143 0 43 00430 F0106A BRM 0BJECT
04144 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04145 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04146 0 43 16174 BRM 0FRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
04147 2 40*37000 SKS# 037000,2 TEST BUFFER EMPTY, CHANNEL 00
04150 0 43 00434 BRM 0ND
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS 0N 00
*
04151 0 43 00430 F0107A BRM 0BJECT
04152 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04153 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04154 0 71 24515 LDX #077600000 XMIT TO CHANNEL 00, 0N0=INT, 0B0E
04155 0 43 16132 BRM 0RCINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
04156 2 40*37000 SKS# 037000,2 TEST BUFFER EMPTY, CHANNEL 00
04157 0 43 00434 BRM 0ND
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 00
*
04160 0 43 00430 F0108A BRM 0BJECT
04161 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04162 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04163 0 71 24516 LDX #077640000 XMIT. TO 00, INT=0B0E
04164 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
04165 0 43 00434 BRM 0ND
*
* TRANSMIT ALL 0NES TO CHARACTER BUFFER, CHANNEL 00
*
04166 0 43 00430 F0109A BRM 0BJECT
04167 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04170 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04171 0 71 24516 LDX #077640000 XMIT. TO 00, INT=0B0E
04172 0 43 16553 BRM XMIT1S TRANSMIT ALL 0NES TO BUFFER
04173 0 43 00434 BRM 0ND
```

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*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 00
*
04174 0 43 00430 F0110A BRM OBJECT
04175 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04176 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04177 0 71 24517 LDX #00040000 XMIT, TO 00, INT.=MODE
04200 0 43 16704 BRM XMIT08 TRANSMIT ALL ZERO TO BUFFER
04201 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 00
*
04202 0 43 00430 F0111A BRM OBJECT
04203 0 76 24514 LDA #00100000 ACTIVATE CHANNEL 00 PBT WORD
04204 0 75 24512 LDB #00120000 DEACTIVATE CHANNEL 00 PBT WORD
04205 0 71 24520 LDX #045640000 XMIT, TO 00, INT.=MODE
04206 0 43 17035 BRM 0VRRUN TEST OVER-RUN BIT
04207 0 43 00434 BRM END

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*
* TEST READY SKS (BIT 15), CHANNEL 01
*
04210 0 43 00430 F0112A BRM OBJECT
04211 0 71 24521 LDX #1
04212 0 43 17166 BRM JMS0
04213 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PBT WORD
04214 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PBT WORD
04215 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04216 2 40*36401 SKS# 036401,2 TEST READY, CHANNEL 01
04217 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 01
*
04220 0 43 00430 F0113A BRM OBJECT
04221 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PBT WORD
04222 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PBT WORD
04223 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04224 2 40*36201 SKS# 036201,2 TEST CHANNEL STATUS, CHANNEL 01
04225 0 43 00434 BRM END

```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 01
*
04226 0 43 00430 F0114A BRM OBJECT
04227 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PGT WORD
04230 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PGT WORD
04231 0 43 16270 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04232 2 40*36201 SKS# 036201,2 TEST CHANNEL STATUS, CHANNEL 01
04233 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 01
*
04234 0 43 00430 F0115A BRM OBJECT
04235 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PGT WORD
04236 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PGT WORD
04237 0 71 24521 LDX #001 CHANNEL ADDRESS 01
04240 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
04241 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 01
*
04242 0 43 00430 F0116A BRM OBJECT
04243 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PGT WORD
04244 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PGT WORD
04245 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04246 2 40*37001 SKS# 037001,2 TEST BUFFER EMPTY, CHANNEL 01
04247 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 01
*
04250 0 43 00430 F0117A BRM OBJECT
04251 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PGT WORD
04252 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PGT WORD
04253 0 71 24524 LDX #077600001 XMIT TO CHANNEL 01, NON=INT, MODE
04254 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04255 2 40*37001 SKS# 037001,2 TEST BUFFER EMPTY, CHANNEL 01
04256 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 01
*
04257 0 43 00430 F0118A BRM OBJECT
04260 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PGT WORD
04261 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PGT WORD
04262 0 71 24525 LDX #077640001 XMIT, TO 01, INT=MODE
04263 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
04264 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 01
*
04265 0 43 00430 F0119A BRM OBJECT
04266 0 76 24522 LDA #00100001 ACTIVATE CHANNEL 01 PGT WORD
04267 0 75 24523 LDB #00120001 DEACTIVATE CHANNEL 01 PGT WORD
04270 0 71 24525 LDX #077640001 XMIT, TO 01, INT=MODE
04271 0 43 16553 BRM XMT1S TRANSMIT ALL ONES TO BUFFER
04272 0 43 00434 BRM END
```



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*
*   TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 01
*
04273 0 43 00430 F0120A BRM  OBJECT
04274 0 76 24522 LDA  #00100001  ACTIVATE CHANNEL 01 PBT WORD
04275 0 75 24523 LDB  #00120001  DEACTIVATE CHANNEL 01 PBT WORD
04276 0 71 24524 LDX  #00040001  XMIT. TO 01, INT.=MODE
04277 0 43 16704 BRM  XMIT08  TRANSMIT ALL ZERO TO BUFFER
04300 0 43 00434 BRM  END

*
*   TEST OVER=RUN BIT (BIT 8), CHANNEL 01
*
04301 0 43 00430 F0121A BRM  OBJECT
04302 0 76 24522 LDA  #00100001  ACTIVATE CHANNEL 01 PBT WORD
04303 0 75 24523 LDB  #00120001  DEACTIVATE CHANNEL 01 PBT WORD
04304 0 71 24527 LDX  #045640001 XMIT. TO 01, INT.=MODE
04305 0 43 17035 BRM  BVRRUN  TEST OVER=RUN BIT
04306 0 43 00434 BRM  END

```

```

*
*   TEST READY SKS (BIT 15), CHANNEL 02
*
04307 0 43 00430 F0122A BRM  OBJECT
04310 0 71 24530 LDX  #2
04311 0 43 17166 BRM  JMSG
04312 0 76 24531 LDA  #00100002  ACTIVATE CHANNEL 02 PBT WORD
04313 0 75 24532 LDB  #00120002  DEACTIVATE CHANNEL 02 PBT WORD
04314 0 43 15751 BRM  R0YSKS  TEST THE READY SKS (BIT 15)

*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04315 2 40*36402 SKS#  036402,2  TEST READY, CHANNEL 02
04316 0 43 00434 BRM  END

*
*   TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 02
*
04317 0 43 00430 F0123A BRM  OBJECT
04320 0 76 24531 LDA  #00100002  ACTIVATE CHANNEL 02 PBT WORD
04321 0 75 24532 LDB  #00120002  DEACTIVATE CHANNEL 02 PBT WORD
04322 0 43 16023 BRM  CSTSKS  TEST THE CHANNEL STATUS SKS (BIT 16)

*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04323 2 40*36202 SKS#  036202,2  TEST CHANNEL STATUS, CHANNEL 02
04324 0 43 00434 BRM  END

```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 02
*
04325 0 43 00430 F0124A BRM 0BJECT
04326 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 P0T WORD
04327 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 P0T WORD
04330 0 43 16770 BRM 0N0FFS TEST THE 0N/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
04331 2 40 36202 SKS# 036202/2 TEST CHANNEL STATUS, CHANNEL 02
04332 0 43 00434 BRM 0ND
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 02
*
04333 0 43 00430 F0125A BRM 0BJECT
04334 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 P0T WORD
04335 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 P0T WORD
04336 0 71 24530 LDX #002 CHANNEL ADDRESS 02
04337 0 43 16172 BRM 0HNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
04340 0 43 00434 BRM 0ND
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 02
*
04341 0 43 00430 F0126A BRM 0BJECT
04342 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 P0T WORD
04343 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 P0T WORD
04344 0 43 16276 BRM 0FR0KS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
04345 2 40 37002 SKS# 037002/2 TEST BUFFER EMPTY, CHANNEL 02
04346 0 43 00434 BRM 0ND
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 02
*
04347 0 43 00430 F0127A BRM 0BJECT
04350 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 P0T WORD
04351 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 P0T WORD
04352 0 71 24533 LDX #077600002 XMIT TO CHANNEL 02, NON-INT, MODE
04353 0 43 16332 BRM 0RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
04354 2 40 37002 SKS# 037002/2 TEST BUFFER EMPTY, CHANNEL 02
04355 0 43 00434 BRM 0ND
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 02
*
04356 0 43 00430 F0128A BRM 0BJECT
04357 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 P0T WORD
04360 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 P0T WORD
04361 0 71 24534 LDX #077640002 XMIT. TO 02, INT.=MODE
04362 0 43 16433 BRM 0XMITINT TEST TRANSMIT INTERRUPT
04363 0 43 00434 BRM 0ND
*
* TRANSMIT ALL 0NES TO CHARACTER BUFFER, CHANNEL 02
*
04364 0 43 00430 F0129A BRM 0BJECT
04365 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 P0T WORD
04366 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 P0T WORD
04367 0 71 24534 LDX #077640002 XMIT. TO 02, INT.=MODE
04370 0 43 16453 BRM 0XMIT1S TRANSMIT ALL 0NES TO BUFFER
04371 0 43 00434 BRM 0ND
```

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*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 02
*
04372 0 43 00430 P0130A BRM OBJECT
04373 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 PBT WORD
04374 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 PBT WORD
04375 0 71 24535 LDX #00040002 XMIT. TO 02, INT.=MODE
04376 0 43 16704 BRM XMIT08 TRANSMIT ALL ZERO TO BUFFER
04377 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 02
*
04400 0 43 00430 P0131A BRM OBJECT
04401 0 76 24531 LDA #00100002 ACTIVATE CHANNEL 02 PBT WORD
04402 0 75 24532 LDB #00120002 DEACTIVATE CHANNEL 02 PBT WORD
04403 0 71 24536 LDX #045640002 XMIT. TO 02, INT.=MODE
04404 0 43 17035 BRM SVRRUN TEST OVER-RUN BIT
04405 0 43 00434 BRM END

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*
* TEST READY SKS (BIT 15), CHANNEL 03
*
04406 0 43 00430 P0132A BRM OBJECT
04407 0 71 24537 LDX #3
04410 0 43 17166 BRM JMSG
04411 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04412 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04413 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04414 2 40*36403 SKS# 036403,2 TEST READY, CHANNEL 03
04415 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 03
*
04416 0 43 00430 P0133A BRM OBJECT
04417 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04420 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04421 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04422 2 40*36203 SKS# 036203,2 TEST CHANNEL STATUS, CHANNEL 03
04423 0 43 00434 BRM END

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 03
*
04424 0 43 00430 F0134A BRM OBJECT
04425 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04426 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04427 0 43 16070 BRM 080FF5 TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04430 2 40*36203 SKS# 036203,2 TEST CHANNEL STATUS, CHANNEL 03
04431 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 03
*
04432 0 43 00430 F0135A BRM OBJECT
04433 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04434 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04435 0 71 24537 LDX #003 CHANNEL ADDRESS 03
04436 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
04437 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 16), CHANNEL 03
*
04440 0 43 00430 F0136A BRM OBJECT
04441 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04442 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04443 0 43 16076 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04444 2 40*37003 SKS# 037003,2 TEST BUFFER EMPTY, CHANNEL 03
04445 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 03
*
04446 0 43 00430 F0137A BRM OBJECT
04447 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04450 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04451 0 71 24542 LDX #077600003 XMIT TO CHANNEL 03, NON-INT. MODE
04452 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04453 2 40*37003 SKS# 037003,2 TEST BUFFER EMPTY, CHANNEL 03
04454 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 03
*
04455 0 43 00430 F0138A BRM OBJECT
04456 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04457 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04460 0 71 24543 LDX #077640003 XMIT. TO 03, INT.=MODE
04461 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
04462 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 03
*
04463 0 43 00430 F0139A BRM OBJECT
04464 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04465 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04466 0 71 24543 LDX #077640003 XMIT. TO 03, INT.=MODE
04467 0 43 16553 BRM XMIT15 TRANSMIT ALL ONES TO BUFFER
04470 0 43 00434 BRM END
```

```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 03
*
04471 0 43 00430 F0140A BRM OBJECT
04472 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04473 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04474 0 71 24544 LDX #00040003 XMIT. TO 03, INT.=MODE
04475 0 43 16704 BRM XMIT03 TRANSMIT ALL ZERO TO BUFFER
04476 0 43 00434 BRM END

*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 03
*
04477 0 43 00430 F0141A BRM OBJECT
04500 0 76 24540 LDA #00100003 ACTIVATE CHANNEL 03 PBT WORD
04501 0 75 24541 LDB #00120003 DEACTIVATE CHANNEL 03 PBT WORD
04502 0 71 24545 LDX #045640003 XMIT. TO 03, INT.=MODE
04503 0 43 17035 BRM OVRUN TEST OVER=RUN BIT
04504 0 43 00434 BRM END
04505 0 43 00456 BRM PDONE
    
```

```

*
* FUNC2 BRM FUNCTN
04506 0 43 00424 FUNC2 BRM FUNCTN
04507 0 20 17646 NOP FPT2
04510 0 43 00440 BRM RETURN
04511 0 20 15636 NOP GLICH
04512 0 02 20020 EOM Q20020
04513 0 13 24511 PBT #00600000 DISARM EXTERNAL INTERRUPTS
04514 0 02 20004 EOM Q20004 DISABLE INTERRUPTS
04515 0 76 20147 LDA M02 INITIALIZE CHASSIS DIRECTIVE
04516 0 35 15765 STA RDY04
04517 0 35 16002 STA RDY10
04520 0 35 16017 STA RDY16
04521 0 35 16047 STA STAT10
04522 0 35 16064 STA STAT16
04523 0 35 16114 STA 0NSP04
04524 0 35 16127 STA 0NSP10
04525 0 35 16146 STA 0NSP16
04526 0 35 16162 STA 0NSP22
04527 0 35 16213 STA CHNL04
04530 0 35 16231 STA CHNL10
04531 0 35 16250 STA CHNL16
04532 0 35 16266 STA CHNL22
04533 0 35 16320 STA BPRO6
04534 0 35 16362 STA RECO6
04535 0 35 16402 STA RECO8
04536 0 35 16473 STA XMIT04
04537 0 35 16517 STA XMIT08
04540 0 35 16541 STA XMIT12
04541 0 35 16613 STA XMT104
04542 0 35 16633 STA XMT107
04543 0 35 16650 STA XMT109
04544 0 35 16672 STA XMT112
04545 0 35 16744 STA XMT004
04546 0 35 16764 STA XMT007
04547 0 35 17001 STA XMT009
04550 0 35 17023 STA XMT012
    
```

```

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04551  C 35 17175    STA    SVRN04
04552  C 35 17115    STA    SVRN08
04553  C 35 17117    STA    SVRN09
04554  C 35 17154    STA    SVRN12

```

```

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```

```

*
*    TEST PBT/PIN CONNECTIONS
*
04555  C 43 00430    F0200A BRM    OBJECT
04556  2 02*37777    EBM*    037777,2    SELECT CTE=10
04557  0 13 24546    PBT     *00120004    PBT TO PBT LINES
04560  0 71 24513    LDX     *077772327    5 MS DELAY
04561  0 41 04561    BRX     *
04562  2 02*37777    EBM*    037777,2    SELECT CTE=10
04563  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
04564  0 43 00434    BRM     END

*
*    TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
04565  C 43 00430    F0201A BRM    OBJECT
04566  2 02*37777    EBM*    037777,2    SELECT CTE=10
04567  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
04570  0 76 20132    LDA     PINWD1    SCANNER VALUE TO A
04571  0 20 00000    NOP     C          CD17BAR=CD23BAR
04572  0 20 00000    NOP     0
04573  2 02*37777    EBM*    037777,2    SELECT CTE=10
04574  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
04575  0 50 20132    SKE     PINWD1    COMPARE PIN VALUES
04576  0 01 04601    BRU     F0201C    SCANNER CHANGING
04577  0 43 00460    BRM     ERROR     SCANNER NOT CHANGING
04600  C 20 21302    NOP     *0101A
04601  C 43 00434    F0201C BRM     END

```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 04
*
04602 0 43 00430 P0202A BRM OBJECT
04603 0 71 24506 LDX #0
04604 0 43 17166 BRM JMSG
04605 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04606 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04607 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04610 2 40*36404 SKS# 036404,2 TEST READY, CHANNEL 04
04611 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 04
*
04612 0 43 00430 P0203A BRM OBJECT
04613 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04614 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04615 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04616 2 40*36204 SKS# 036204,2 TEST CHANNEL STATUS, CHANNEL 04
04617 0 43 00434 BRM END

```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 04
*
04620 0 43 00430 P0204A BRM OBJECT
04621 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04622 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04623 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04624 2 40*36204 SKS# 036204,2 TEST CHANNEL STATUS, CHANNEL 04
04625 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 04
*
04626 0 43 00430 P0205A BRM OBJECT
04627 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04628 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04629 0 71 24507 LDX #004 CHANNEL ADDRESS 04
04630 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
04631 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 04
*
04634 0 43 00430 P0206A BRM OBJECT
04635 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04636 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04637 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04640 2 40*37004 SKS# 037004,2 TEST BUFFER EMPTY, CHANNEL 04
04641 0 43 00434 BRM END

```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 04
*
04642 0 43 00430 F0207A BRM OBJECT
04643 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04644 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04645 0 71 24550 LDX #077600004 XMIT TO CHANNEL 04, NON-INT. MODE
04646 0 43 16732 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04647 2 40 37004 SKS# 037004,2 TEST BUFFER EMPTY, CHANNEL 04
04650 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 04
*
04651 0 43 00430 F0208A BRM OBJECT
04652 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04653 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04654 0 71 24551 LDX #077640004 XMIT TO 04, INT.=MODE
04655 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
04656 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 04
*
04657 0 43 00430 F0209A BRM OBJECT
04660 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04661 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04662 0 71 24551 LDX #077640004 XMIT TO 04, INT.=MODE
04663 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
04664 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 04
*
04665 0 43 00430 F0210A BRM OBJECT
04666 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04667 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04670 0 71 24552 LDX #00040004 XMIT TO 04, INT.=MODE
04671 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
04672 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 04
*
04673 0 43 00430 F0211A BRM OBJECT
04674 0 76 24547 LDA #00100004 ACTIVATE CHANNEL 04 PBT WORD
04675 0 75 24546 LDB #00120004 DEACTIVATE CHANNEL 04 PBT WORD
04676 0 71 24553 LDX #045640004 XMIT TO 04, INT.=MODE
04677 0 43 17035 BRM #VRRJN TEST OVER-RUN BIT
04700 0 43 00434 BRM END
```


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```

*
* TEST READY SKS (BIT 15), CHANNEL 05
*
04701 0 43 00430 P0212A BRM OBJECT
04702 0 71 24521 LDX #1
04703 0 43 17166 BRM JHSG
04704 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04705 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04706 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04707 2 40*36405 SKS* 036405,2 TEST READY, CHANNEL 05
04710 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 05
*
04711 0 43 00430 P0213A BRM OBJECT
04712 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04713 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04714 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04715 2 40*36205 SKS* 036205,2 TEST CHANNEL STATUS, CHANNEL 05
04716 0 43 00434 BRM END

```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 05
*
04717 0 43 00430 P0214A BRM OBJECT
04720 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04721 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04722 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04723 2 40*36205 SKS* 036205,2 TEST CHANNEL STATUS, CHANNEL 05
04724 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 05
*
04725 0 43 00430 P0215A BRM OBJECT
04726 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04727 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04730 0 71 24556 LDX #005 CHANNEL ADDRESS 05
04731 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
04732 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 05
*
04733 0 43 00430 P0216A BRM OBJECT
04734 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04735 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04736 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04737 2 40*37005 SKS* 037005,2 TEST BUFFER EMPTY, CHANNEL 05
04740 0 43 00434 BRM END

```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 05
*
04741 0 43 00430 F0217A BRM OBJECT
04742 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04743 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04744 0 71 24557 LDX #C77600005 XMIT TO CHANNEL 05, NON-INT. MODE
04745 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
04746 2 40 37005 SKS# C37005,2 TEST BUFFER EMPTY, CHANNEL 05
04747 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 05
*
04750 0 43 00430 F0218A BRM OBJECT
04751 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04752 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04753 0 71 24560 LDX #077640005 XMIT. TO 05, INT.=MODE
04754 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
04755 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 05
*
04756 0 43 00430 F0219A BRM OBJECT
04757 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04758 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04759 0 71 24560 LDX #077640005 XMIT. TO 05, INT.=MODE
04760 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
04761 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 05
*
04764 0 43 00430 F0220A BRM OBJECT
04765 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04766 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04767 0 71 24561 LDX #00040005 XMIT. TO 05, INT.=MODE
04770 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
04771 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 05
*
04772 0 43 00430 F0221A BRM OBJECT
04773 0 76 24554 LDA #00100005 ACTIVATE CHANNEL 05 PBT WORD
04774 0 75 24555 LDB #00120005 DEACTIVATE CHANNEL 05 PBT WORD
04775 0 71 24562 LDX #045640005 XMIT. TO 05, INT.=MODE
04776 0 43 17035 BRM SVRRUN TEST OVER-RUN BIT
04777 0 43 00434 BRM END
```

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```

.
.
.
TEST READY SKS (BIT 15), CHANNEL 06
.
.
05000 0 43 00430 F0222A BRM OBJECT
05001 0 71 24530 LDX #2
05002 0 43 17166 BRM JHSG
05003 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05004 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05005 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
.
.
THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
.
.
05006 2 40*36406 SKS# 036406,2 TEST READY, CHANNEL 06
05007 0 43 00434 BRM END
.
.
TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 06
.
.
05010 0 43 00430 F0223A BRM OBJECT
05011 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05012 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05013 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
.
.
THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
.
.
05014 2 40*36206 SKS# 036206,2 TEST CHANNEL STATUS, CHANNEL 06
05015 0 43 00434 BRM END

```

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```

.
.
.
TEST ON/OFF INTERRUPT, CHANNEL 06
.
.
05016 0 43 00430 F0224A BRM OBJECT
05017 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05020 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05021 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
.
.
THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
.
.
05022 2 40*36206 SKS# 036206,2 TEST CHANNEL STATUS, CHANNEL 06
05023 0 43 00434 BRM END
.
.
TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 06
.
.
05024 0 43 00430 F0225A BRM OBJECT
05025 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05026 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05027 0 71 24565 LDX #006 CHANNEL ADDRESS 06
05030 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
05031 0 43 00434 BRM END
.
.
TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 06
.
.
05032 0 43 00430 F0226A BRM OBJECT
05033 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05034 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05035 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
.
.
THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
.
.
05036 2 40*37006 SKS# 037006,2 TEST BUFFER EMPTY, CHANNEL 06
05037 0 43 00434 BRM END

```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 06
*
05040 0 43 00430 F0227A BRM OBJECT
05041 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05042 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05043 0 71 24566 LDX #077600006 XMIT TO CHANNEL 06, NON-INT. MODE
05044 0 43 16932 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05045 2 40 37006 SKS 037006,2 TEST BUFFER EMPTY, CHANNEL 06
05046 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 06
*
05047 0 43 00430 F0228A BRM OBJECT
05050 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05051 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05052 0 71 24567 LDX #077640006 XMIT. TO 06, INT.=MODE
05053 0 43 16933 BRM XMITINT TEST TRANSMIT INTERRUPT
05054 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 06
*
05055 0 43 00430 F0229A BRM OBJECT
05056 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05057 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05060 0 71 24567 LDX #077640006 XMIT. TO 06, INT.=MODE
05061 0 43 16933 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
05062 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 06
*
05063 0 43 00430 F0230A BRM OBJECT
05064 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05065 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05066 0 71 24570 LDX #00040006 XMIT. TO 06, INT.=MODE
05067 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
05070 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 06
*
05071 0 43 00430 F0231A BRM OBJECT
05072 0 76 24563 LDA #00100006 ACTIVATE CHANNEL 06 PBT WORD
05073 0 75 24564 LDB #00120006 DEACTIVATE CHANNEL 06 PBT WORD
05074 0 71 24571 LDX #045640006 XMIT. TO 06, INT.=MODE
05075 0 43 17035 BRM OVERRUN TEST OVER-RUN BIT
05076 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 07
*
05077 0 43 00430 P0232A BRM OBJECT
05100 0 71 24537 LDX #3
05101 0 43 17166 BRM JMSG
05102 0 76 24572 LDA #00100007 ACTIVATE CHANNEL 07 PBT WORD
05103 0 75 24573 LDB #00120007 DEACTIVATE CHANNEL 07 PBT WORD
05104 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05105 2 40*36407 SKS# 036407,2 TEST READY, CHANNEL 07
05106 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 07
*
05107 0 43 00430 P0233A BRM OBJECT
05110 0 76 24572 LDA #00100007 ACTIVATE CHANNEL 07 PBT WORD
05111 0 75 24573 LDB #00120007 DEACTIVATE CHANNEL 07 PBT WORD
05112 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05113 2 40*36207 SKS# 036207,2 TEST CHANNEL STATUS, CHANNEL 07
05114 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 07
*
05115 0 43 00430 P0234A BRM OBJECT
05116 0 76 24572 LDA #00100007 ACTIVATE CHANNEL 07 PBT WORD
05117 0 75 24573 LDB #00120007 DEACTIVATE CHANNEL 07 PBT WORD
05120 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05121 2 40*36207 SKS# 036207,2 TEST CHANNEL STATUS, CHANNEL 07
05122 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 07
*
05123 0 43 00430 P0235A BRM OBJECT
05124 0 76 24572 LDA #00100007 ACTIVATE CHANNEL 07 PBT WORD
05125 0 75 24573 LDB #00120007 DEACTIVATE CHANNEL 07 PBT WORD
05126 0 71 24574 LDX #007 CHANNEL ADDRESS 07
05127 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
05130 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 16), CHANNEL 07
*
05131 0 43 00430 P0236A BRM OBJECT
05132 0 76 24572 LDA #00100007 ACTIVATE CHANNEL 07 PBT WORD
05133 0 75 24573 LDB #00120007 DEACTIVATE CHANNEL 07 PBT WORD
05134 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05135 2 40*37007 SKS# 037007,2 TEST BUFFER EMPTY, CHANNEL 07
05136 0 43 00434 BRM END
```

```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 07
*
05137 0 43 00430 F0237A BRM  OBJECT
05140 0 76 24572 LDA  #00100007      ACTIVATE CHANNEL 07 P0T WORD
05141 0 75 24573 LDB  #00120007      DEACTIVATE CHANNEL 07 P0T WORD
05142 0 71 24575 LDX  #077600007     XMIT TO CHANNEL 07, NON=INT, MODE
05143 0 43 16332 BRM  RECINT        TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05144 2 40 37007 SKS#  037007,2     TEST BUFFER EMPTY, CHANNEL 07
05145 0 43 00434 BRM  END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 07
*
05146 0 43 00430 F0238A BRM  OBJECT
05147 0 76 24572 LDA  #00100007      ACTIVATE CHANNEL 07 P0T WORD
05150 0 75 24573 LDB  #00120007      DEACTIVATE CHANNEL 07 P0T WORD
05151 0 71 24574 LDX  #077640007     XMIT. TO 07, INT.=MODE
05152 0 43 16433 BRM  XMTINT        TEST TRANSMIT INTERRUPT
05153 0 43 00434 BRM  END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 07
*
05154 0 43 00430 F0239A BRM  OBJECT
05155 0 76 24572 LDA  #00100007      ACTIVATE CHANNEL 07 P0T WORD
05156 0 75 24573 LDB  #00120007      DEACTIVATE CHANNEL 07 P0T WORD
05157 0 71 24576 LDX  #077640007     XMIT. TO 07, INT.=MODE
05160 0 43 16553 BRM  XMIT1S      TRANSMIT ALL ONES TO BUFFER
05161 0 43 00434 BRM  END

```

```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 07
*
05162 0 43 00430 F0240A BRM  OBJECT
05163 0 76 24572 LDA  #00100007      ACTIVATE CHANNEL 07 P0T WORD
05164 0 75 24573 LDB  #00120007      DEACTIVATE CHANNEL 07 P0T WORD
05165 0 71 24577 LDX  #00040007     XMIT. TO 07, INT.=MODE
05166 0 43 16704 BRM  XMIT0S      TRANSMIT ALL ZERO TO BUFFER
05167 0 43 00434 BRM  END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 07
*
05170 0 43 00430 F0241A BRM  OBJECT
05171 0 76 24572 LDA  #00100007      ACTIVATE CHANNEL 07 P0T WORD
05172 0 75 24573 LDB  #00120007      DEACTIVATE CHANNEL 07 P0T WORD
05173 0 71 24600 LDX  #045640007     XMIT. TO 07, INT.=MODE
05174 0 43 17235 BRM  OVRRUN      TEST OVER-RUN BIT
05175 0 43 00434 BRM  END
05176 0 43 00456 BRM  FDBNE

```

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05177	0 43 00424	* FUNC3	BRM	FUNCTN
05200	0 20 17661		NOP	FRT3
05201	0 43 00440		BRM	RETURN
05202	0 20 15636		NOP	GLICH
05203	0 02 20020		EBM	020020
05204	0 13 24511		PBT	#00600000
05205	0 02 20004		EBM	020004
05206	0 76 20150		LDA	Y03
05207	0 35 15765		STA	RDY04
05210	0 35 16002		STA	RDY10
05211	0 35 16017		STA	RDY16
05212	0 35 16047		STA	STAT10
05213	0 35 16064		STA	STAT16
05214	0 35 16114		STA	0N0F04
05215	0 35 16127		STA	0N0F10
05216	0 35 16146		STA	0N0F16
05217	0 35 16162		STA	0N0F22
05220	0 35 16213		STA	CHNL04
05221	0 35 16231		STA	CHNL10
05222	0 35 16250		STA	CHNL16
05223	0 35 16266		STA	CHNL22
05224	0 35 16320		STA	BPRO6
05225	0 35 16362		STA	RECO6
05226	0 35 16402		STA	RECO8
05227	0 35 16473		STA	XMIT04
05230	0 35 16517		STA	XMIT08
05231	0 35 16541		STA	XMIT12
05232	0 35 16613		STA	XMT104
05233	0 35 16633		STA	XMT107
05234	0 35 16650		STA	XMT109
05235	0 35 16672		STA	XMT112
05236	0 35 16744		STA	XMT004
05237	0 35 16764		STA	XMT007
05240	0 35 17001		STA	XMT009
05241	0 35 17023		STA	XMT012

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

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05242	0 35 17075	STA	BVRN04
05243	0 35 17115	STA	BVRN08
05244	0 35 17117	STA	BVRN09
05245	0 35 17154	STA	BVRN12

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```
*
* TEST PBT/PIN CONNECTIONS
*
05246 0 43 00430 F0300A BRM OBJECT
05247 2 02*37777 EBM* 037777,2 SELECT CTE=10
05250 0 13 24401 PBT #00120010 PBT TO PBT LINES
05251 0 71 24513 LDX #077772327 5 MS DELAY
05252 0 41 05052 BRX *
05253 2 02*37777 EBM* 037777,2 SELECT CTE=10
05254 0 33 24132 PIN PINND1 PIN THE PIN LINES
05255 0 43 00434 BRM END
```

```
*
* TEST SCANNER, CD=INVERTERS (CD17BAR-CD23BAR)
*
05256 0 43 00430 F0301A BRM OBJECT
05257 2 02*37777 EBM* 037777,2 SELECT CTE=10
05260 0 33 24132 PIN PINND1 PIN THE PIN LINES
05261 0 76 24132 LDA PINND1 SCANNER VALUE TO A
05262 0 20 00000 NBP 0 CD17BAR-CD23BAR
05263 0 20 00000 NBP 0
05264 2 02*37777 EBM* 037777,2 SELECT CTE=10
05265 0 33 24132 PIN PINND1 PIN THE PIN LINES
05266 0 50 24132 SKE PINND1 COMPARE PIN VALUES
05267 0 01 05277 BRJ F0301C SCANNER CHANGING
05270 0 43 00460 BRM ERROR SCANNER NOT CHANGING
05271 0 20 24202 NBP M0101A
05272 0 43 00434 F0301C BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 10
*
05273 0 43 00430 F0302A BRM OBJECT
05274 0 71 24506 LDX #0
05275 0 43 17166 BRM JMSG
05276 0 76 24402 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05277 0 75 24401 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05300 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05301 2 40*36410 SKS* 036410,2 TEST READY, CHANNEL 10
05302 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 10
*
05303 0 43 00430 F0303A BRM OBJECT
05304 0 76 24402 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05305 0 75 24401 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05306 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05307 2 40*36210 SKS* 036210,2 TEST CHANNEL STATUS, CHANNEL 10
05310 0 43 00434 BRM END
```


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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 10
*
05311 0 43 00430 P0304A BRM OBJECT
05312 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05313 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05314 0 43 16070 BRM #0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05315 2 40*36710 SKS# 036210,2 TEST CHANNEL STATUS, CHANNEL 10
05316 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 10
*
05317 0 43 00430 P0305A BRM OBJECT
05320 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05321 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05322 0 71 24603 LDX #010 CHANNEL ADDRESS 10
05323 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
05324 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 10
*
05325 0 43 00430 P0306A BRM OBJECT
05326 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05327 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05330 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05331 2 40*37010 SKS# 037010,2 TEST BUFFER EMPTY, CHANNEL 10
05332 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 10
*
05333 0 43 00430 P0307A BRM OBJECT
05334 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05335 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05336 0 71 24604 LDX #077600010 XMIT TO CHANNEL 10, NON=INT, MODE
05337 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05340 2 40*37010 SKS# 037010,2 TEST BUFFER EMPTY, CHANNEL 10
05341 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 10
*
05342 0 43 00430 P0308A BRM OBJECT
05343 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05344 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05345 0 71 24605 LDX #077640010 XMIT TO 10, INT=MODE
05346 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
05347 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 10
*
05350 0 43 00430 P0309A BRM OBJECT
05351 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 PBT WORD
05352 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 PBT WORD
05353 0 71 24605 LDX #077640010 XMIT TO 10, INT=MODE
05354 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
05355 0 43 00434 BRM END

```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 10
*
05356 0 43 00430 F0310A BRM OBJECT
05357 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 POT WORD
05360 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 POT WORD
05361 0 71 24604 LDX #00040010 XMIT. TO 10, INT.=MODE
05362 0 43 14704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
05363 0 43 00434 BRM END

*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 10
*
05364 0 43 00430 F0311A BRM OBJECT
05365 0 76 24602 LDA #00100010 ACTIVATE CHANNEL 10 POT WORD
05366 0 75 24601 LDB #00120010 DEACTIVATE CHANNEL 10 POT WORD
05367 0 71 24607 LDX #045640010 XMIT. TO 10, INT.=MODE
05370 0 43 17035 BRM BVRRUN TEST OVER-RUN BIT
05371 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 11
*
05372 0 43 00430 F0312A BRM OBJECT
05373 0 71 24521 LDX #1
05374 0 43 17166 BRM JMSG
05375 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05376 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05377 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05400 2 40*36411 SKS# 036411,2 TEST READY, CHANNEL 11
05401 0 43 00434 BRM END

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 11
*
05402 0 43 00430 F0313A BRM OBJECT
05403 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05404 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05405 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05406 2 40*36211 SKS# 036211,2 TEST CHANNEL STATUS, CHANNEL 11
05407 0 43 00434 BRM END
```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 11
*
05410 0 43 00430 F0314A BRM OBJECT
05411 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05412 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05413 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05414 2 40*36211 SKS# 036211,2 TEST CHANNEL STATUS, CHANNEL 11
05415 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 11
*
05416 0 43 00430 F0315A BRM OBJECT
05417 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05420 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05421 0 71 24612 LDX #011 CHANNEL ADDRESS 11
05422 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
05423 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 11
*
05424 0 43 00430 F0316A BRM OBJECT
05425 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05426 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05427 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05430 2 40*37011 SKS# 037011,2 TEST BUFFER EMPTY, CHANNEL 11
05431 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 11
*
05432 0 43 00430 F0317A BRM OBJECT
05433 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05434 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05435 0 71 24613 LDX #077600011 XMIT TO CHANNEL 11, NON-INT. MODE
05436 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05437 2 40*37011 SKS# 037011,2 TEST BUFFER EMPTY, CHANNEL 11
05440 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 11
*
05441 0 43 00430 F0318A BRM OBJECT
05442 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05443 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05444 0 71 24614 LDX #077640011 XMIT, TO 11, INT.=MODE
05445 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
05446 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 11
*
05447 0 43 00430 F0319A BRM OBJECT
05450 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05451 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05452 0 71 24614 LDX #077640011 XMIT, TO 11, INT.=MODE
05453 0 43 16553 BRM XMT1S TRANSMIT ALL ONES TO BUFFER
05454 0 43 00434 BRM END

```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 11
*
05455 0 43 00430 F0320A BRM OBJECT
05456 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05457 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05460 0 71 24615 LDX #00040011 XMIT, TO 11, INT.=MODE
05461 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
05462 0 43 01434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 11
*
05463 0 43 00430 F0321A BRM OBJECT
05464 0 76 24610 LDA #00100011 ACTIVATE CHANNEL 11 POT WORD
05465 0 75 24611 LDB #00120011 DEACTIVATE CHANNEL 11 POT WORD
05466 0 71 24615 LDX #045640011 XMIT, TO 11, INT.=MODE
05467 0 43 17335 BRM BVRRUN TEST OVER-RUN BIT
05470 0 43 01434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 12
*
05471 0 43 00430 F0322A BRM OBJECT
05472 0 71 24530 LDX #2
05473 0 43 17166 BRM JMSG
05474 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 POT WORD
05475 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 POT WORD
05476 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05477 2 40*36412 SKS# 036412,2 TEST READY, CHANNEL 12
05500 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 12
*
05501 0 43 00430 F0323A BRM OBJECT
05502 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 POT WORD
05503 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 POT WORD
05504 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05505 2 40*36212 SKS# 036212,2 TEST CHANNEL STATUS, CHANNEL 12
05506 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 12
*
05507 0 43 00430 F0324A BRM OBJECT
05510 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 PBT WORD
05511 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 PBT WORD
05512 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05513 2 40*36212 SKS# 036212,2 TEST CHANNEL STATUS, CHANNEL 12
05514 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 12
*
05515 0 43 00430 F0325A BRM OBJECT
05516 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 PBT WORD
05517 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 PBT WORD
05520 0 71 24621 LDX #012 CHANNEL ADDRESS 12
05521 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
05522 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 12
*
05523 0 43 00430 F0326A BRM OBJECT
05524 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 PBT WORD
05525 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 PBT WORD
05526 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05527 2 40*37012 SKS# 037012,2 TEST BUFFER EMPTY, CHANNEL 12
05530 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 12
*
05531 0 43 00430 F0327A BRM OBJECT
05532 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 PBT WORD
05533 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 PBT WORD
05534 0 71 24622 LDX #077600012 XMIT TO CHANNEL 12, NON-INT, MODE
05535 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05536 2 40*37012 SKS# 037012,2 TEST BUFFER EMPTY, CHANNEL 12
05537 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 12
*
05540 0 43 00430 F0328A BRM OBJECT
05541 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 PBT WORD
05542 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 PBT WORD
05543 0 71 24623 LDX #077640012 XMIT, TO 12, INT==MODE
05544 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
05545 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 12
*
05546 0 43 00430 F0329A BRM OBJECT
05547 0 76 24617 LDA #00100012 ACTIVATE CHANNEL 12 PBT WORD
05550 0 75 24620 LDB #00120012 DEACTIVATE CHANNEL 12 PBT WORD
05551 0 71 24623 LDX #077640012 XMIT, TO 12, INT==MODE
05552 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
05553 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 12
*
05554 0 43 00430 F0330A BRM 0BJECT
05555 0 76 24417 LDA #00100012 ACTIVATE CHANNEL 12 POT WORD
05556 0 75 24420 LDB #00120012 DEACTIVATE CHANNEL 12 POT WORD
05557 0 71 24424 LDX #00040012 XMIT, TO 12, INT.=MODE
05560 0 43 17704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
05561 0 43 00434 BRM END

*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 12
*
05562 0 43 00430 F0331A BRM 0BJECT
05563 0 76 24417 LDA #00100012 ACTIVATE CHANNEL 12 POT WORD
05564 0 75 24420 LDB #00120012 DEACTIVATE CHANNEL 12 POT WORD
05565 0 71 24425 LDX #045640012 XMIT, TO 12, INT.=MODE
05566 0 43 17735 BRM OVRRUN TEST OVER-RUN BIT
05567 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 13
*
05570 0 43 00430 F0332A BRM 0BJECT
05571 0 71 24437 LDX #3
05572 0 43 17166 BRM JMSG
05573 0 76 24426 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05574 0 75 24427 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05575 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05576 2 40*36413 SKS# 036413,2 TEST READY, CHANNEL 13
05577 0 43 00434 BRM END

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 13
*
05600 0 43 00430 F0333A BRM 0BJECT
05601 0 76 24426 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05602 0 75 24427 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05603 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05604 2 40*36213 SKS# 036213,2 TEST CHANNEL STATUS, CHANNEL 13
05605 0 43 00434 BRM END
```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 13
*
05606 0 43 00430 F0334A BRM OBJECT
05607 0 76 24626 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05610 0 75 24627 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05611 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05612 2 40*36213 SKS# 036213,2 TEST CHANNEL STATUS, CHANNEL 13
05613 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 13
*
05614 0 43 00430 F0335A BRM OBJECT
05615 0 76 24626 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05616 0 75 24627 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05617 0 71 24630 LDX #013 CHANNEL ADDRESS 13
05620 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
05621 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 13
*
05622 0 43 00430 F0336A BRM OBJECT
05623 0 76 24626 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05624 0 75 24627 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05625 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05626 2 40*37013 SKS# 037013,2 TEST BUFFER EMPTY, CHANNEL 13
05627 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 13
*
05630 0 43 00430 F0337A BRM OBJECT
05631 0 76 24626 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05632 0 75 24627 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05633 0 71 24631 LDX #077600013 XMIT TO CHANNEL 13, NON-INT, MODE
05634 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05635 2 40*37013 SKS# 037013,2 TEST BUFFER EMPTY, CHANNEL 13
05636 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 13
*
05637 0 43 00430 F0338A BRM OBJECT
05640 0 76 24626 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05641 0 75 24627 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05642 0 71 24632 LDX #077640013 XMIT TO 13, INT=MODE
05643 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
05644 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 13
*
05645 0 43 00430 F0339A BRM OBJECT
05646 0 76 24626 LDA #00100013 ACTIVATE CHANNEL 13 POT WORD
05647 0 75 24627 LDB #00120013 DEACTIVATE CHANNEL 13 POT WORD
05650 0 71 24632 LDX #077640013 XMIT TO 13, INT=MODE
05651 0 43 16553 BRM XMIT15 TRANSMIT ALL ONES TO BUFFER
05652 0 43 00434 BRM END

```

```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 13
*
05653 0 43 01430 F0340A BRM OBJECT
05654 0 76 2442A LDA #00100013 ACTIVATE CHANNEL 13 PBT WORD
05655 0 75 24427 LDB #00120013 DEACTIVATE CHANNEL 13 PBT WORD
05656 0 71 24433 LDX #00040013 XMIT. TO 13, INT.=MODE
05657 0 43 14704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
05660 0 43 01434 BRM END

*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 13
*
05661 0 43 01430 F0341A BRM OBJECT
05662 0 76 2442A LDA #00100013 ACTIVATE CHANNEL 13 PBT WORD
05663 0 75 24427 LDB #00120013 DEACTIVATE CHANNEL 13 PBT WORD
05664 0 71 24433 LDX #045640013 XMIT. TO 13, INT.=MODE
05665 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
05666 0 43 01434 BRM END
05667 0 43 01456 BRM FDBNE
    
```

```

*
* FUNC4 BRM FUNCTN
05670 0 43 01424 FUNC4 BRM FUNCTN
05671 0 20 17474 NBP FPT4
05672 0 43 00440 BRM RETURN
05673 0 20 15436 NBP GLICH
05674 0 02 20020 EBM 020020
05675 0 13 24411 PBT #00600000 DISARM EXTERNAL INTERRUPTS
05676 0 02 20004 EBM 020004 DISABLE INTERRUPTS
05677 0 76 21151 LDA M04 INITIALIZE CHASSIS DIRECTIVE
05700 0 35 16765 STA RDY04
05701 0 35 16802 STA RDY10
05702 0 35 16817 STA RDY16
05703 0 35 16847 STA STAT10
05704 0 35 16864 STA STAT16
05705 0 35 16114 STA 0NBF04
05706 0 35 16127 STA 0NBF10
05707 0 35 16146 STA 0NBF16
05710 0 35 16162 STA 0NBF22
05711 0 35 17213 STA CHNL04
05712 0 35 17231 STA CHNL10
05713 0 35 16250 STA CHNL16
05714 0 35 16266 STA CHNL22
05715 0 35 16320 STA BFR06
05716 0 35 16362 STA RECO6
05717 0 35 16402 STA RECO8
05720 0 35 16473 STA XMIT04
05721 0 35 16517 STA XMIT08
05722 0 35 16541 STA XMIT12
05723 0 35 16613 STA XMT104
05724 0 35 16639 STA XMT107
05725 0 35 16650 STA XMT109
05726 0 35 16672 STA XMT112
05727 0 35 16744 STA XMT004
05730 0 35 16764 STA XMT007
05731 0 35 17001 STA XMT009
05732 0 35 17023 STA XMT012
    
```



```

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05733  0 35 17075      STA    0VRN04
05734  0 35 17115      STA    0VRN08
05735  0 35 17117      STA    0VRN09
05736  0 35 17154      STA    0VRN12

```

```

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```

```

*
*   TEST POT/PIN CONNECTIONS
*
05737  0 43 00430      PO400A BRM    OBJECT
05740  2 02*37777      ERM.    037777,2    SELECT CTE=10
05741  0 13 24635      POT     #00120014    POT TO POT LINES
05742  0 71 24513      LDX     #077772327    5 MS DELAY
05743  0 41 05743      BRX     *
05744  2 02*37777      ERM.    037777,2    SELECT CTE=10
05745  0 33 20132      PIN     PINWD1      PIN THE PIN LINES
05746  0 43 00434      BRM     END

*
*   TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
05747  0 43 00430      PO401A BRM    OBJECT
05750  2 02*37777      ERM.    037777,2    SELECT CTE=10
05751  0 33 20132      PIN     PINWD1      PIN THE PIN LINES
05752  0 76 20132      LDA     PINWD1      SCANNER VALUE TO A
05753  0 20 00000      NSP     0           CD17BAR=CD23BAR
05754  0 20 00000      NSP     0
05755  2 02*37777      ERM.    037777,2    SELECT CTE=10
05756  0 33 20132      PIN     PINWD1      PIN THE PIN LINES
05757  0 50 20132      SKE     PINWD1      COMPARE PIN VALUES
05760  0 01 05763      BRU     PO401C      SCANNER CHANGING
05761  0 43 00440      BRM     ERROR       SCANNER NOT CHANGING
05762  0 20 21302      NSP     MO101A
05763  0 43 00434      PO401C BRM     END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 14
*
05764 0 43 00430 P0402A BRM OBJECT
05765 0 71 24504 LDX #0
05766 0 43 17166 BRM JMSG
05767 0 76 24436 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
05770 0 75 24435 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
05771 0 43 15751 BRM ROYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
05772 2 40*30414 SKS# 036414,2 TEST READY, CHANNEL 14
05773 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 14
*
05774 0 43 00430 P0403A BRM OBJECT
05775 0 76 24436 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
05776 0 75 24435 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
05777 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06000 2 40*30714 SKS# 036214,2 TEST CHANNEL STATUS, CHANNEL 14
06001 0 43 00434 BRM END
```

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```
*
* TEST BN/BFF INTERRUPT, CHANNEL 14
*
06002 0 43 00430 P0404A BRM OBJECT
06003 0 76 24436 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06004 0 75 24435 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06005 0 43 16770 BRM BN/BFFS TEST THE BN/BFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06006 2 40*36214 SKS# 036214,2 TEST CHANNEL STATUS, CHANNEL 14
06007 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 14
*
06010 0 43 00430 P0405A BRM OBJECT
06011 0 76 24436 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06012 0 75 24435 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06013 0 71 24437 LDX #014 CHANNEL ADDRESS 14
06014 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
06015 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 14
*
06016 0 43 00430 P0406A BRM OBJECT
06017 0 76 24436 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06020 0 75 24435 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06021 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06022 2 40*37014 SKS# 037014,2 TEST BUFFER EMPTY, CHANNEL 14
06023 0 43 00434 BRM END
```

```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 14
*
06024 0 43 00430 P0407A BRM OBJECT
06025 0 76 24636 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06026 0 75 24635 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06027 0 71 24640 LDX #077600014 XMIT TO CHANNEL 14, NON=INT. MODE
06030 0 43 16732 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06031 2 40 37014 SKS# 037014,2 TEST BUFFER EMPTY, CHANNEL 14
06032 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 14
*
06033 0 43 00430 P0408A BRM OBJECT
06034 0 76 24636 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06035 0 75 24635 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06036 0 71 24641 LDX #077640014 XMIT. TO 14, INT.=MODE
06037 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
06040 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 14
*
06041 0 43 00430 P0409A BRM OBJECT
06042 0 76 24636 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06043 0 75 24635 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06044 0 71 24641 LDX #077640014 XMIT. TO 14, INT.=MODE
06045 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
06046 0 43 00434 BRM END

```

```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 14
*
06047 0 43 00430 P0410A BRM OBJECT
06050 0 76 24636 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06051 0 75 24635 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06052 0 71 24642 LDX #00040014 XMIT. TO 14, INT.=MODE
06053 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
06054 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 14
*
06055 0 43 00430 P0411A BRM OBJECT
06056 0 76 24636 LDA #00100014 ACTIVATE CHANNEL 14 PBT WORD
06057 0 75 24635 LDB #00120014 DEACTIVATE CHANNEL 14 PBT WORD
06060 0 71 24643 LDX #045640014 XMIT. TO 14, INT.=MODE
06061 0 43 17035 BRM OVRRUN TEST OVER=RUN BIT
06062 0 43 00434 BRM END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 15
*
06063 0 43 00430 F0412A BRM OBJECT
06064 0 71 24521 LDX #1
06065 0 43 17166 BRM JMSG
06066 0 76 24444 LDA #00100015 ACTIVATE CHANNEL 15 POT WORD
06067 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 POT WORD
06070 0 43 14751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06071 2 40*37415 SKS* 036415,2 TEST READY, CHANNEL 15
06072 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 15
*
06073 0 43 00430 F0413A BRM OBJECT
06074 0 76 24444 LDA #00100015 ACTIVATE CHANNEL 15 POT WORD
06075 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 POT WORD
06076 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06077 2 40*37015 SKS* 036215,2 TEST CHANNEL STATUS, CHANNEL 15
06100 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 15
*
06101 0 43 00430 F0414A BRM OBJECT
06102 0 76 24444 LDA #00100015 ACTIVATE CHANNEL 15 POT WORD
06103 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 POT WORD
06104 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06105 2 40*36215 SKS* 036215,2 TEST CHANNEL STATUS, CHANNEL 15
06106 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 15
*
06107 0 43 00430 F0415A BRM OBJECT
06110 0 76 24444 LDA #00100015 ACTIVATE CHANNEL 15 POT WORD
06111 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 POT WORD
06112 0 71 24446 LDX #015 CHANNEL ADDRESS 15
06113 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
06114 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 15
*
06115 0 43 00430 F0416A BRM OBJECT
06116 0 76 24444 LDA #00100015 ACTIVATE CHANNEL 15 POT WORD
06117 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 POT WORD
06120 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06121 2 40*37015 SKS* 037015,2 TEST BUFFER EMPTY, CHANNEL 15
06122 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 15
*
06123 0 43 00430 P0417A BRM OBJECT
06124 0 74 24444 LDA #00100015 ACTIVATE CHANNEL 15 PBT WORD
06125 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 PBT WORD
06126 0 71 24447 LDX #077600015 XMIT TO CHANNEL 15, NON-INT. MODE
06127 0 43 16432 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06130 2 40 37015 SKS# 037015,2 TEST BUFFER EMPTY, CHANNEL 15
06131 0 43 07434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 15
*
06132 0 43 00430 P0418A BRM OBJECT
06133 0 74 24444 LDA #00100015 ACTIVATE CHANNEL 15 PBT WORD
06134 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 PBT WORD
06135 0 71 24450 LDX #077640015 XMIT TO 15, INT==MODE
06136 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
06137 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 15
*
06140 0 43 00430 P0419A BRM OBJECT
06141 0 74 24444 LDA #00100015 ACTIVATE CHANNEL 15 PBT WORD
06142 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 PBT WORD
06143 0 71 24450 LDX #077640015 XMIT TO 15, INT==MODE
06144 0 43 16453 BRM XMIT15 TRANSMIT ALL ONES TO BUFFER
06145 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 15
*
06146 0 43 00430 P0420A BRM OBJECT
06147 0 74 24444 LDA #00100015 ACTIVATE CHANNEL 15 PBT WORD
06150 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 PBT WORD
06151 0 71 24451 LDX #00040015 XMIT TO 15, INT==MODE
06152 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
06153 0 43 07434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 15
*
06154 0 43 00430 P0421A BRM OBJECT
06155 0 74 24444 LDA #00100015 ACTIVATE CHANNEL 15 PBT WORD
06156 0 75 24445 LDB #00120015 DEACTIVATE CHANNEL 15 PBT WORD
06157 0 71 24452 LDX #045640015 XMIT TO 15, INT==MODE
06160 0 43 17035 BRM 0VRRUN TEST OVER-RUN BIT
06161 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 16
*
06162 0 43 00430 F0422A BRM OBJECT
06163 0 71 24530 LDX #2
06164 0 43 17166 BRM JMSG
06165 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 P0T WORD
06166 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 P0T WORD
06167 0 43 16751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06170 2 40*37016 SKS# 036416,2 TEST READY, CHANNEL 16
06171 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 16
*
06172 0 43 00430 F0423A BRM OBJECT
06173 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 P0T WORD
06174 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 P0T WORD
06175 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06176 2 40*37016 SKS# 036216,2 TEST CHANNEL STATUS, CHANNEL 16
06177 0 43 00434 BRM END
```

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```
*
* TEST 0N/OFF INTERRUPT, CHANNEL 16
*
06200 0 43 00430 F0424A BRM OBJECT
06201 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 P0T WORD
06202 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 P0T WORD
06203 0 43 16070 BRM 0N/OFFS TEST THE 0N/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06204 2 40*37016 SKS# 036216,2 TEST CHANNEL STATUS, CHANNEL 16
06205 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 16
*
06206 0 43 00430 F0425A BRM OBJECT
06207 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 P0T WORD
06210 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 P0T WORD
06211 0 71 24455 LDX #016 CHANNEL ADDRESS 16
06212 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
06213 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 16
*
06214 0 43 00430 F0426A BRM OBJECT
06215 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 P0T WORD
06216 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 P0T WORD
06217 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06220 2 40*37016 SKS# 037016,2 TEST BUFFER EMPTY, CHANNEL 16
06221 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 16
*
06222 0 43 00430 F0427A BRM 0BJECT
06223 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 POT WORD
06224 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 POT WORD
06225 0 71 24456 LDX #077600016 XMIT TO CHANNEL 16, NON-INT. MODE
06226 0 43 16432 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06227 2 40 37016 SKS* 037016,P TEST BUFFER EMPTY, CHANNEL 16
06230 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 16
*
06231 0 43 00430 F0428A BRM 0BJECT
06232 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 POT WORD
06233 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 POT WORD
06234 0 71 24457 LDX #077640016 XMIT. TO 16, INT.=MODE
06235 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
06236 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 16
*
06237 0 43 00430 F0429A BRM 0BJECT
06240 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 POT WORD
06241 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 POT WORD
06242 0 71 24457 LDX #077640016 XMIT. TO 16, INT.=MODE
06243 0 43 16453 BRM XMIT15 TRANSMIT ALL ONES TO BUFFER
06244 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 16
*
06245 0 43 00430 F0430A BRM 0BJECT
06246 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 POT WORD
06247 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 POT WORD
06250 0 71 24460 LDX #00040016 XMIT. TO 16, INT.=MODE
06251 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
06252 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 16
*
06253 0 43 00430 F0431A BRM 0BJECT
06254 0 76 24453 LDA #00100016 ACTIVATE CHANNEL 16 POT WORD
06255 0 75 24454 LDB #00120016 DEACTIVATE CHANNEL 16 POT WORD
06256 0 71 24461 LDX #045640016 XMIT. TO 16, INT.=MODE
06257 0 43 17435 BRM 0VRRUN TEST OVER-RUN BIT
06260 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 17
*
06261 0 43 00430 F0432A BRM 0BJECT
06262 0 71 24437 LDX #3
06263 0 43 17166 BRM JMSG
06264 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 P0T WORD
06265 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 P0T WORD
06266 0 43 17161 BRM RDYS<S TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06267 2 40*34417 SKS* 036417,2 TEST READY, CHANNEL 17
06270 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 17
*
06271 0 43 00430 F0433A BRM 0BJECT
06272 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 P0T WORD
06273 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 P0T WORD
06274 0 43 17122 BRM CSTS<S TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06275 2 40*34217 SKS* 036217,2 TEST CHANNEL STATUS, CHANNEL 17
06276 0 43 00434 BRM END
```

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```
*
* TEST 0N/OFF INTERRUPT, CHANNEL 17
*
06277 0 43 00430 F0434A BRM 0BJECT
06300 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 P0T WORD
06301 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 P0T WORD
06302 0 43 16770 BRM 0N0FFS TEST THE 0N/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06303 2 40*36217 SKS* 036217,2 TEST CHANNEL STATUS, CHANNEL 17
06304 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 17
*
06305 0 43 00430 F0435A BRM 0BJECT
06306 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 P0T WORD
06307 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 P0T WORD
06310 0 71 24464 LDX #017 CHANNEL ADDRESS 17
06311 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
06312 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 17
*
06313 0 43 00430 F0436A BRM 0BJECT
06314 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 P0T WORD
06315 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 P0T WORD
06316 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06317 2 40*37017 SKS* 037017,2 TEST BUFFER EMPTY, CHANNEL 17
06320 0 43 00434 BRM END
```


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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 17
*
06321 0 43 00430 F0437A BRM OBJECT
06322 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 PBT WORD
06323 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 PBT WORD
06324 0 71 24465 LDX #077600017 XMIT TO CHANNEL 17, NON-INT. MODE
06325 0 43 16732 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06326 2 40 037117 SKS# 03701712 TEST BUFFER EMPTY, CHANNEL 17
06327 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 17
*
06330 0 43 00430 F0438A BRM OBJECT
06331 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 PBT WORD
06332 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 PBT WORD
06333 0 71 24466 LDX #077640017 XMIT. TO 17, INT. MODE
06334 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
06335 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 17
*
06336 0 43 00430 F0439A BRM OBJECT
06337 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 PBT WORD
06340 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 PBT WORD
06341 0 71 24466 LDX #077640017 XMIT. TO 17, INT. MODE
06342 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
06343 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 17
*
06344 0 43 00430 F0440A BRM OBJECT
06345 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 PBT WORD
06346 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 PBT WORD
06347 0 71 24467 LDX #00040017 XMIT. TO 17, INT. MODE
06350 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
06351 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 17
*
06352 0 43 00430 F0441A BRM OBJECT
06353 0 76 24462 LDA #00100017 ACTIVATE CHANNEL 17 PBT WORD
06354 0 75 24463 LDB #00120017 DEACTIVATE CHANNEL 17 PBT WORD
06355 0 71 24670 LDX #045640017 XMIT. TO 17, INT. MODE
06356 0 43 17035 BRM OVERRUN TEST OVER-RUN BIT
06357 0 43 00434 BRM END
06360 0 43 00456 BRM FDBNE
```

*
FUNC5
06361 0 43 00424 BRM FUNCTN
06362 0 20 17707 NBP FPT5
06363 0 43 00440 BRM RETURN
06364 0 20 1543A NBP GLICH
06365 0 02 20020 EBY 020020
06366 0 13 24511 PBT #00600000
06367 0 02 20004 EBM 020004
06370 0 76 20150 LDA Y05
06371 0 35 15765 STA RDY04
06372 0 35 16002 STA RDY10
06373 0 35 16017 STA RDY16
06374 0 35 16047 STA STAT10
06375 0 35 16064 STA STAT16
06376 0 35 16114 STA 0NBP04
06377 0 35 16127 STA 0NBP10
06400 0 35 16146 STA 0NBP16
06401 0 35 16162 STA 0NBP22
06402 0 35 16213 STA CHNL04
06403 0 35 16231 STA CHNL10
06404 0 35 16250 STA CHNL16
06405 0 35 16266 STA CHNL22
06406 0 35 16300 STA BFR06
06407 0 35 16309 STA RECO6
06410 0 35 16309 STA RECO8
06411 0 35 16373 STA XMT04
06412 0 35 16317 STA XMT08
06413 0 35 16341 STA XMT12
06414 0 35 16313 STA XMT104
06415 0 35 16333 STA XMT107
06416 0 35 16350 STA XMT109
06417 0 35 16372 STA XMT112
06420 0 35 16744 STA XMT004
06421 0 35 16764 STA XMT007
06422 0 35 17001 STA XMT009
06423 0 35 17023 STA XMT012

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

06424 0 35 17075 STA 0VRN04
06425 0 35 17115 STA 0VRN08
06426 0 35 17117 STA 0VRN09
06427 0 35 17154 STA 0VRN12

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```
*
* TEST POT/PIN CONNECTIONS
*
06430 0 43 00430 F0500A BRM OBJECT
06431 2 02*37777 EOM* 037777,2 SELECT CTE=10
06432 0 13 24471 POT #00120020 POT TO POT LINES
06433 0 71 24471 LDX #077772327 5 MS DELAY
06434 0 41 06434 BRX *
06435 2 02*37777 EOM* 037777,2 SELECT CTE=10
06436 0 33 20132 PIN PINWD1 PIN THE PIN LINES
06437 0 43 00434 BRM END
```

```
*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
06440 0 43 00430 F0501A BRM OBJECT
06441 2 02*37777 EOM* 037777,2 SELECT CTE=10
06442 0 33 20132 PIN PINWD1 PIN THE PIN LINES
06443 0 76 20132 LDA PINWD1 SCANNER VALUE TO A
06444 0 20 00000 NOP 0 CD17BAR=CD23BAR
06445 0 20 00000 NOP 0
06446 2 02*37777 EOM* 037777,2 SELECT CTE=10
06447 0 33 20132 PIN PINWD1 PIN THE PIN LINES
06450 0 50 20132 SKE PINWD1 COMPARE PIN VALUES
06451 0 01 06454 BRU F0501C SCANNER CHANGING
06452 0 43 00460 BRM ERRBR SCANNER NOT CHANGING
06453 0 20 21302 NOP M0101A
06454 0 43 00434 F0501C BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 20
*
06455 0 43 00430 F0502A BRM OBJECT
06456 0 71 24506 LDX #0
06457 0 43 17166 BRM JMSG
06460 0 76 24672 LDA #00100020 ACTIVATE CHANNEL 20 POT WORD
06461 0 75 24671 LDB #00120020 DEACTIVATE CHANNEL 20 POT WORD
06462 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06463 2 40*36420 SKS* 036420,2 TEST READY, CHANNEL 20
06464 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 20
*
06465 0 43 00430 F0503A BRM OBJECT
06466 0 76 24672 LDA #00100020 ACTIVATE CHANNEL 20 POT WORD
06467 0 75 24671 LDB #00120020 DEACTIVATE CHANNEL 20 POT WORD
06470 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06471 2 40*36220 SKS* 036220,2 TEST CHANNEL STATUS, CHANNEL 20
06472 0 43 00434 BRM END
```

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```
*
* TEST SN/OFF INTERRUPT, CHANNEL 20
*
06473 0 43 00430 F0504A BRM 0BJECT
06474 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 P0T WORD
06475 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 P0T WORD
06476 0 43 16477 BRM SN/OFFS TEST THE SN/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06477 2 40*36020 SKS# 036220,2 TEST CHANNEL STATUS, CHANNEL 20
06500 0 43 16434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 20
*
06501 0 43 00430 F0505A BRM 0BJECT
06502 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 P0T WORD
06503 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 P0T WORD
06504 0 71 24473 LDX #020 CHANNEL ADDRESS 20
06505 0 43 16472 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
06506 0 43 16434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 20
*
06507 0 43 00430 F0506A BRM 0BJECT
06510 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 P0T WORD
06511 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 P0T WORD
06512 0 43 16474 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06513 2 40*37020 SKS# 037020,2 TEST BUFFER EMPTY, CHANNEL 20
06514 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 20
*
06515 0 43 00430 F0507A BRM 0BJECT
06516 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 P0T WORD
06517 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 P0T WORD
06520 0 71 24474 LDX #077600020 XMIT TO CHANNEL 20, NDN=INT, MODE
06521 0 43 16432 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06522 2 40*37020 SKS# 037020,2 TEST BUFFER EMPTY, CHANNEL 20
06523 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 20
*
06524 0 43 00430 F0508A BRM 0BJECT
06525 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 P0T WORD
06526 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 P0T WORD
06527 0 71 24475 LDX #077640020 XMIT, TO 20, INT=MODE
06530 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
06531 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 20
*
06532 0 43 00430 F0509A BRM 0BJECT
06533 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 P0T WORD
06534 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 P0T WORD
06535 0 71 24475 LDX #077640020 XMIT, TO 20, INT=MODE
06536 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
06537 0 43 00434 BRM END
```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 20
*
06540 0 43 00430 F0510A BRM OBJECT
06541 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 PBT WORD
06542 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 PBT WORD
06543 0 71 24476 LDX #00040020 XMIT. TO 20, INT.=MODE
06544 0 43 16734 BRM XMITCS TRANSMIT ALL ZERO TO BUFFER
06545 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 20
*
06546 0 43 00430 F0511A BRM OBJECT
06547 0 76 24472 LDA #00100020 ACTIVATE CHANNEL 20 PBT WORD
06550 0 75 24471 LDB #00120020 DEACTIVATE CHANNEL 20 PBT WORD
06551 0 71 24477 LDX #045640020 XMIT. TO 20, INT.=MODE
06552 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
06553 0 43 00434 BRM END

```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 21
*
06554 0 43 00430 F0512A BRM OBJECT
06555 0 71 24521 LDX #1
06556 0 43 17166 BRM JMSG
06557 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06560 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06561 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06562 2 40*36421 SKS# 036421,2 TEST READY, CHANNEL 21
06563 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 21
*
06564 0 43 00430 F0513A BRM OBJECT
06565 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06566 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06567 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06570 2 40*36221 SKS# 036221,2 TEST CHANNEL STATUS, CHANNEL 21
06571 0 43 00434 BRM END

```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 21
*
06572 0 43 00430 F0514A BRM OBJECT
06573 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06574 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06575 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06576 2 40*37021 SKS# 037021,2 TEST CHANNEL STATUS, CHANNEL 21
06577 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 21
*
06600 0 43 00430 F0515A BRM OBJECT
06601 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06602 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06603 0 71 24702 LDY #021 CHANNEL ADDRESS 21
06604 0 42 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
06605 0 42 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 21
*
06606 0 43 00430 F0516A BRM OBJECT
06607 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06610 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06611 0 43 16076 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06612 2 40*37021 SKS# 037021,2 TEST BUFFER EMPTY, CHANNEL 21
06613 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 21
*
06614 0 43 00430 F0517A BRM OBJECT
06615 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06616 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06617 0 71 24703 LDX #077600021 XMIT TO CHANNEL 21, NON-INT. MODE
06620 0 43 16032 BRM RECIPT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06621 2 40*37021 SKS# 037021,2 TEST BUFFER EMPTY, CHANNEL 21
06622 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 21
*
06623 0 43 00430 F0518A BRM OBJECT
06624 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06625 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06626 0 71 24704 LDX #077640021 XMIT, TO 21, INT==MODE
06627 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
06630 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 21
*
06631 0 43 00430 F0519A BRM OBJECT
06632 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06633 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06634 0 71 24704 LDX #077640021 XMIT, TO 21, INT==MODE
06635 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
06636 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 21
*
06637 0 43 0430 F0520A BRM 0BJECT
06640 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06641 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06642 0 71 24705 LDY #00040021 XMIT. TO 21, INT.=MODE
06643 0 43 0434 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
06644 0 43 0434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 21
*
06645 0 43 0430 F0521A BRM 0BJECT
06646 0 76 24700 LDA #00100021 ACTIVATE CHANNEL 21 PBT WORD
06647 0 75 24701 LDB #00120021 DEACTIVATE CHANNEL 21 PBT WORD
06650 0 71 24706 LDX #045640021 XMIT. TO 21, INT.=MODE
06651 0 43 0434 BRM 0VRRUN TEST OVER-RUN BIT
06652 0 43 0434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 22
*
06653 0 43 0430 F0522A BRM 0BJECT
06654 0 71 24530 LDX #2
06655 0 43 17166 BRM JMSG
06656 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 PBT WORD
06657 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 PBT WORD
06660 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06661 2 40*34422 SKS* 036422,2 TEST READY, CHANNEL 22
06662 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 22
*
06663 0 43 00430 F0523A BRM 0BJECT
06664 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 PBT WORD
06665 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 PBT WORD
06666 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06667 2 40*34222 SKS* 036222,2 TEST CHANNEL STATUS, CHANNEL 22
06670 0 43 00434 BRM END
```

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```
*
* TEST 8N/OFF INTERRUPT, CHANNEL 22
*
06671 0 43 00430 F0524A BRM OBJECT
06672 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06673 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06674 0 43 16320 BRM 8N/OFFS TEST THE 8N/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06675 2 43 37022 SKS# 03622,2 TEST CHANNEL STATUS, CHANNEL 22
06676 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 22
*
06677 0 43 00430 F0525A BRM OBJECT
06700 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06701 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06702 0 71 24711 LDX #022 CHANNEL ADDRESS 22
06703 0 43 16320 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
06704 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 22
*
06705 0 43 00430 F0526A BRM OBJECT
06706 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06707 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06710 0 43 16324 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06711 2 43 37022 SKS# 03702,2 TEST BUFFER EMPTY, CHANNEL 22
06712 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS 0N 22
*
06713 0 43 00430 F0527A BRM OBJECT
06714 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06715 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06716 0 71 24712 LDX #077600022 XMIT TO CHANNEL 22, NON-INT. MODE
06717 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06720 2 43 37022 SKS# 03702,2 TEST BUFFER EMPTY, CHANNEL 22
06721 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 22
*
06722 0 43 00430 F0528A BRM OBJECT
06723 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06724 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06725 0 71 24713 LDX #077640022 XMIT. TO 21, INT.=MODE
06726 0 43 16333 BRM XMITINT TEST TRANSMIT INTERRUPT
06727 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 22
*
06730 0 43 00430 F0529A BRM OBJECT
06731 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06732 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06733 0 71 24713 LDX #077640022 XMIT. TO 22, INT.=MODE
06734 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
06735 0 43 00434 BRM END
```


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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 22
*
06736 0 43 00430 F0530A BRM OBJECT
06737 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06740 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06741 0 71 24714 LDX #00040022 XMIT, TO 22, INT.=MODE
06742 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
06743 0 43 00434 BRM END

*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 22
*
06744 0 43 00430 F0531A BRM OBJECT
06745 0 76 24707 LDA #00100022 ACTIVATE CHANNEL 22 P0T WORD
06746 0 75 24710 LDB #00120022 DEACTIVATE CHANNEL 22 P0T WORD
06747 0 71 24715 LDX #045640022 XMIT, TO 22, INT.=MODE
06750 0 43 17335 BRM BVRRUN TEST OVER-RUN BIT
06751 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 23
*
06752 0 43 00430 F0532A BRM OBJECT
06753 0 71 24537 LDX #3
06754 0 43 17166 BRM JMSG
06755 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 P0T WORD
06756 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 P0T WORD
06757 0 43 18751 BRM RDYSKS TEST THE READY SKS (BIT 15)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06760 2 40*36423 SKS# 036423,2 TEST READY, CHANNEL 23
06761 0 43 00434 BRM END

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 23
*
06762 0 43 00430 F0533A BRM OBJECT
06763 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 P0T WORD
06764 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 P0T WORD
06765 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06766 2 40*36223 SKS# 036223,2 TEST CHANNEL STATUS, CHANNEL 23
06767 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 23
*
06770 0 43 06430 F0534A BRM 0BJECT
06771 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
06772 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
06773 0 43 16470 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
06774 2 43 37023 SKS# 036223,2 TEST CHANNEL STATUS, CHANNEL 23
06775 0 43 06434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 23
*
06776 0 43 06430 F0535A BRM 0BJECT
06777 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
07000 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
07001 0 71 24720 LDX #023 CHANNEL ADDRESS 23
07002 0 43 16470 BRM 0N0LAD TEST THE CHANNEL ADDRESSING CAPABILITY
07003 0 43 06434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 23
*
07004 0 43 06430 F0536A BRM 0BJECT
07005 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
07006 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
07007 0 43 16476 BRM 0FRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07010 2 43 37023 SKS# 037023,2 TEST BUFFER EMPTY, CHANNEL 23
07011 0 43 06434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 23
*
07012 0 43 06430 F0537A BRM 0BJECT
07013 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
07014 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
07015 0 71 24721 LDX #07760023 XMIT TO CHANNEL 23, NON-INT, MODE
07016 0 43 16432 BRM 0RCINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07017 2 43 37023 SKS# 037023,2 TEST BUFFER EMPTY, CHANNEL 23
07020 0 43 06434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 23
*
07021 0 43 06430 F0538A BRM 0BJECT
07022 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
07023 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
07024 0 71 24722 LDX #077640023 XMIT, TO 23, INT=MODE
07025 0 43 16433 BRM 0XMIT TEST TRANSMIT INTERRUPT
07026 0 43 06434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 23
*
07027 0 43 06430 F0539A BRM 0BJECT
07030 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
07031 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
07032 0 71 24722 LDX #077640023 XMIT, TO 23, INT=MODE
07033 0 43 16453 BRM 0XMITIS TRANSMIT ALL ONES TO BUFFER
07034 0 43 06434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 23
*
07035 0 43 00430 F0540A BRM OBJECT
07036 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
07037 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
07040 0 71 24723 LDX #00040023 XMIT. TO 23, INT.=MODE
07041 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
07042 0 43 00434 BRM END

*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 23
*
07043 0 43 00430 F0541A BRM OBJECT
07044 0 76 24716 LDA #00100023 ACTIVATE CHANNEL 23 PBT WORD
07045 0 75 24717 LDB #00120023 DEACTIVATE CHANNEL 23 PBT WORD
07046 0 71 24724 LDX #045640023 XMIT. TO 23, INT.=MODE
07047 0 43 17035 BRM 0VRRUN TEST OVER-RUN BIT
07050 0 43 00434 BRM END
07051 0 43 00456 BRM F00NE
```

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```
*
* FUNC6 BRM FUNCTN
07052 0 43 00424 FUNC6 BRM FUNCTN
07053 0 20 17722 NOP FPT6
07054 0 43 00440 BRM RETURN
07055 0 20 15436 NOP GLICH
07056 0 02 20020 EBM 020020
07057 0 13 24511 PBT #00600000 DISARM EXTERNAL INTERRUPTS
07060 0 02 20004 EBM 020004 DISABLE INTERRUPTS
07061 0 76 20153 LDA M06 INITIALIZE CHASSIS DIRECTIVE
07062 0 35 15765 STA RDY04
07063 0 35 16002 STA RDY10
07064 0 35 16017 STA RDY16
07065 0 35 16047 STA STAT10
07066 0 35 16064 STA STAT16
07067 0 35 16114 STA 0N0F04
07070 0 35 16127 STA 0N0F10
07071 0 35 16146 STA 0N0F16
07072 0 35 16162 STA 0N0F22
07073 0 35 16213 STA CHNLO4
07074 0 35 16231 STA CHNL10
07075 0 35 16250 STA CHNL16
07076 0 35 16266 STA CHNL22
07077 0 35 16320 STA BFR06
07100 0 35 16362 STA REC06
07101 0 35 16402 STA REC08
07102 0 35 16473 STA XMIT04
07103 0 35 16517 STA XMIT08
07104 0 35 16541 STA XMIT12
07105 0 35 16613 STA XMT104
07106 0 35 16633 STA XMT107
07107 0 35 16650 STA XMT109
07110 0 35 16672 STA XMT112
07111 0 35 16744 STA XMT004
07112 0 35 16764 STA XMT007
07113 0 35 17001 STA XMT009
07114 0 35 17023 STA XMT012
```

```

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07115  0 35 17075    STA    0VRN04
07116  0 35 17115    STA    0VRN08
07117  0 35 17117    STA    0VRN09
07120  0 35 17154    STA    0VRN12

```

```

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```

```

*
* TEST PBT/PIN CONNECTIONS
*

```

```

07121  0 43 00430    F0600A BRM    0BJECT
07122  2 02*37777    EBM*    037777,2    SELECT CTE=10
07123  0 13 24725    PBT     #00120024    PBT TO PBT LINES
07124  0 71 24513    LDX     #077772327    5 MS DELAY
07125  0 41 07125    BRX     *
07126  2 02*37777    EBM*    037777,2    SELECT CTE=10
07127  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
07130  0 43 00434    BRM     END

```

```

*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*

```

```

07131  0 43 00430    F0601A BRM    0BJECT
07132  2 02*37777    EBM*    037777,2    SELECT CTE=10
07133  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
07134  0 76 20132    LDA     PINWD1    SCANNER VALUE TO A
07135  0 20 00000    NOP     0    CD17BAR=CD23BAR
07136  0 20 00000    NOP     0
07137  2 02*37777    EBM*    037777,2    SELECT CTE=10
07140  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
07141  0 50 20132    SKE     PINWD1    COMPARE PIN VALUES
07142  0 01 07145    BRU     F0601C    SCANNER CHANGING
07143  0 43 00460    BRM     ERROR    SCANNER NOT CHANGING
07144  0 20 21302    NOP     #0101A
07145  0 43 00434    F0601C BRM     END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 24
*
07146 0 43 00430 F0602A BRM OBJECT
07147 0 71 24506 LDX #0
07150 0 43 17166 BRM JMSG
07151 0 76 24726 LDA #00100024 ACTIVATE CHANNEL 24 PBT WORD
07152 0 75 24725 LDB #00120024 DEACTIVATE CHANNEL 24 PBT WORD
07153 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07154 2 40*36424 SKS* 036424,2 TEST READY, CHANNEL 24
07155 0 43 07434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 24
*
07156 0 43 07430 F0603A BRM OBJECT
07157 0 76 24726 LDA #00100024 ACTIVATE CHANNEL 24 PBT WORD
07160 0 75 24725 LDB #00120024 DEACTIVATE CHANNEL 24 PBT WORD
07161 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07162 2 40*36224 SKS* 036224,2 TEST CHANNEL STATUS, CHANNEL 24
07163 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 24
*
07164 0 43 00430 F0604A BRM OBJECT
07165 0 76 24726 LDA #00100024 ACTIVATE CHANNEL 24 PBT WORD
07166 0 75 24725 LDB #00120024 DEACTIVATE CHANNEL 24 PBT WORD
07167 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07170 2 40*36224 SKS* 036224,2 TEST CHANNEL STATUS, CHANNEL 24
07171 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 24
*
07172 0 43 00430 F0605A BRM OBJECT
07173 0 76 24726 LDA #00100024 ACTIVATE CHANNEL 24 PBT WORD
07174 0 75 24725 LDB #00120024 DEACTIVATE CHANNEL 24 PBT WORD
07175 0 71 24727 LDX #024 CHANNEL ADDRESS 24
07176 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
07177 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 24
*
07200 0 43 00430 F0606A BRM OBJECT
07201 0 76 24726 LDA #00100024 ACTIVATE CHANNEL 24 PBT WORD
07202 0 75 24725 LDB #00120024 DEACTIVATE CHANNEL 24 PBT WORD
07203 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07204 2 40*37024 SKS* 037024,2 TEST BUFFER EMPTY, CHANNEL 24
07205 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 24
*
07206 0 43 00430 F0607A BRM  OBJECT
07207 0 76 24726 LDA  #00100024  ACTIVATE CHANNEL 24 PBT WORD
07210 0 75 24725 LDB  #00120024  DEACTIVATE CHANNEL 24 PBT WORD
07211 0 71 24730 LDX  #077600024 XMIT TO CHANNEL 24, NON-INT, MODE
07212 0 43 16732 BRM  RECINT    TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07213 P 40*37*24 SKS*  037024/2  TEST BUFFER EMPTY, CHANNEL 24
07214 0 43 00434 BRM  END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 24
*
07215 0 43 00430 F0608A BRM  OBJECT
07216 0 76 24726 LDA  #00100024  ACTIVATE CHANNEL 24 PBT WORD
07217 0 75 24725 LDB  #00120024  DEACTIVATE CHANNEL 24 PBT WORD
07220 0 71 24731 LDX  #077640024 XMIT TO 24, INT==MODE
07221 0 43 16733 BRM  XMITINT  TEST TRANSMIT INTERRUPT
07222 0 43 00434 BRM  END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 24
*
07223 0 43 00430 F0609A BRM  OBJECT
07224 0 76 24726 LDA  #00100024  ACTIVATE CHANNEL 24 PBT WORD
07225 0 75 24725 LDB  #00120024  DEACTIVATE CHANNEL 24 PBT WORD
07226 0 71 24731 LDX  #077640024 XMIT TO 24, INT==MODE
07227 0 43 16753 BRM  XMIT1S   TRANSMIT ALL ONES TO BUFFER
07230 0 43 00434 BRM  END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 24
*
07231 0 43 00430 F0610A BRM  OBJECT
07232 0 76 24726 LDA  #00100024  ACTIVATE CHANNEL 24 PBT WORD
07233 0 75 24725 LDB  #00120024  DEACTIVATE CHANNEL 24 PBT WORD
07234 0 71 24732 LDX  #00040024  XMIT TO 24, INT==MODE
07235 0 43 16704 BRM  XMIT0S   TRANSMIT ALL ZERO TO BUFFER
07236 0 43 00434 BRM  END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 24
*
07237 0 43 00430 F0611A BRM  OBJECT
07240 0 76 24726 LDA  #00100024  ACTIVATE CHANNEL 24 PBT WORD
07241 0 75 24725 LDB  #00120024  DEACTIVATE CHANNEL 24 PBT WORD
07242 0 71 24733 LDX  #045640024 XMIT TO 24, INT==MODE
07243 0 43 17735 BRM  OVRRUN  TEST OVER-RUN BIT
07244 0 43 00434 BRM  END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 25
*
07245 0 43 00430 F0612A BRM OBJECT
07246 0 71 24521 LDX #1
07247 0 43 17166 BRM JMSG
07250 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 PBT WORD
07251 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 PBT WORD
07252 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07253 2 40*34425 SKS# 036425,2 TEST READY, CHANNEL 25
07254 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 25
*
07255 0 43 00430 F0613A BRM OBJECT
07256 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 PBT WORD
07257 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 PBT WORD
07260 0 43 14023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07261 2 40*34225 SKS# 036225,2 TEST CHANNEL STATUS, CHANNEL 25
07262 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 25
*
07263 0 43 00430 F0614A BRM OBJECT
07264 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 PBT WORD
07265 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 PBT WORD
07266 0 43 16070 BRM 0B0FF5 TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07267 2 40*36225 SKS# 036225,2 TEST CHANNEL STATUS, CHANNEL 25
07270 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 25
*
07271 0 43 00430 F0615A BRM OBJECT
07272 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 PBT WORD
07273 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 PBT WORD
07274 0 71 24736 LDX #025 CHANNEL ADDRESS 25
07275 0 43 14172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
07276 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 25
*
07277 0 43 00430 F0616A BRM OBJECT
07300 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 PBT WORD
07301 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 PBT WORD
07302 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07303 2 40*37025 SKS# 037025,2 TEST BUFFER EMPTY, CHANNEL 25
07304 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 25
*
07305 0 43 00430 F0617A BRM OBJECT
07306 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 P0T WORD
07307 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 P0T WORD
07310 0 71 24737 LDX #077600025 XMIT TO CHANNEL 25, NON=INT, MODE
07311 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07312 2 40 37025 SKS# 037025,2 TEST BUFFER EMPTY, CHANNEL 25
07313 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 25
*
07314 0 43 00430 F0618A BRM OBJECT
07315 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 P0T WORD
07316 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 P0T WORD
07317 0 71 24740 LDX #077640025 XMIT. TO 25, INT.=MODE
07320 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
07321 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 25
*
07322 0 43 00430 F0619A BRM OBJECT
07323 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 P0T WORD
07324 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 P0T WORD
07325 0 71 24740 LDX #077640025 XMIT. TO 25, INT.=MODE
07326 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
07327 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 25
*
07330 0 43 00430 F0620A BRM OBJECT
07331 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 P0T WORD
07332 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 P0T WORD
07333 0 71 24741 LDX #00040025 XMIT. TO 25, INT.=MODE
07334 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
07335 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 25
*
07336 0 43 00430 F0621A BRM OBJECT
07337 0 76 24734 LDA #00100025 ACTIVATE CHANNEL 25 P0T WORD
07340 0 75 24735 LDB #00120025 DEACTIVATE CHANNEL 25 P0T WORD
07341 0 71 24742 LDX #045640025 XMIT. TO 25, INT.=MODE
07342 0 43 17035 BRM OVRRUN TEST OVER=RUN BIT
07343 0 43 00434 BRM END
```


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```
*
* TEST READY SKS (BIT 15), CHANNEL 26
*
07344 0 43 00430 F0622A BRM OBJECT
07345 0 71 24530 LDX #2
07346 0 43 17166 BRM JMSG
07347 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07350 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07351 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07352 2 40*36426 SKS# 036426,2 TEST READY, CHANNEL 26
07353 0 43 01434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 26
*
07354 0 43 00430 F0623A BRM OBJECT
07355 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07356 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07357 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07360 2 40*36226 SKS# 036226,2 TEST CHANNEL STATUS, CHANNEL 26
07361 0 43 01434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 26
*
07362 0 43 00430 F0624A BRM OBJECT
07363 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07364 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07365 0 43 16770 BRM 0N9FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07366 2 40*36226 SKS# 036226,2 TEST CHANNEL STATUS, CHANNEL 26
07367 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 26
*
07370 0 43 00430 F0625A BRM OBJECT
07371 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07372 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07373 0 71 24745 LDX #026 CHANNEL ADDRESS 26
07374 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
07375 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 26
*
07376 0 43 00430 F0626A BRM OBJECT
07377 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07400 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07401 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07402 2 40*37226 SKS# 037026,2 TEST BUFFER EMPTY, CHANNEL 26
07403 0 43 01434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 26
*
07404 0 43 00430 F0627A BRM OBJECT
07405 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07406 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07407 0 71 24744 LDX #077600026 XMIT TO CHANNEL 26, NON=INT, MODE
07410 0 43 16232 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07411 2 40 37026 SKS# 037026,2 TEST BUFFER EMPTY, CHANNEL 26
07412 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 26
*
07413 0 43 00430 F0628A BRM OBJECT
07414 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07415 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07416 0 71 24747 LDX #077640026 XMIT. TO 26, INT.=MODE
07417 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
07420 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 26
*
07421 0 43 00430 F0629A BRM OBJECT
07422 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07423 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07424 0 71 24747 LDX #077640026 XMIT. TO 26, INT.=MODE
07425 0 43 16453 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
07426 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 26
*
07427 0 43 00430 F0630A BRM OBJECT
07430 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07431 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07432 0 71 24750 LDX #00C40026 XMIT. TO 26, INT.=MODE
07433 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
07434 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 26
*
07435 0 43 00430 F0631A BRM OBJECT
07436 0 76 24743 LDA #00100026 ACTIVATE CHANNEL 26 PBT WORD
07437 0 75 24744 LDB #00120026 DEACTIVATE CHANNEL 26 PBT WORD
07440 0 71 24751 LDX #045640026 XMIT. TO 26, INT.=MODE
07441 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
07442 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 27
*
07443 0 43 00430 F0632A BRM OBJECT
07444 0 71 24537 LDX #3
07445 0 43 17166 BRM JMSG
07446 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 PBT WORD
07447 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 PBT WORD
07450 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07451 2 40*36427 SKS# 036427,2 TEST READY, CHANNEL 27
07452 0 43 00434 BRM END
```

```
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 27
*
07453 0 43 00430 F0633A BRM OBJECT
07454 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 PBT WORD
07455 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 PBT WORD
07456 0 43 10023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07457 2 40*36027 SKS# 036227,2 TEST CHANNEL STATUS, CHANNEL 27
07450 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 27
*
07461 0 43 00430 F0634A BRM OBJECT
07462 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 PBT WORD
07463 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 PBT WORD
07464 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07465 2 40*36227 SKS# 036227,2 TEST CHANNEL STATUS, CHANNEL 27
07466 0 43 00434 BRM END
```

```
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 27
*
07467 0 43 00430 F0635A BRM OBJECT
07470 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 PBT WORD
07471 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 PBT WORD
07472 0 71 24754 LDX #027 CHANNEL ADDRESS 27
07473 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
07474 0 43 00434 BRM END
```

```
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 27
*
07475 0 43 00430 F0636A BRM OBJECT
07476 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 PBT WORD
07477 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 PBT WORD
07500 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07501 2 40*37027 SKS# 037027,2 TEST BUFFER EMPTY, CHANNEL 27
07502 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 27
*
07503 0 43 00430 F0637A BRM OBJECT
07504 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 POT WORD
07505 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 POT WORD
07506 0 71 24755 LDX #077600027 XMIT TO CHANNEL 27, NON-INT. MODE
07507 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07510 2 40 17027 SKS# 037027,2 TEST BUFFER EMPTY, CHANNEL 27
07511 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 27
*
07512 0 43 00430 F0638A BRM OBJECT
07513 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 POT WORD
07514 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 POT WORD
07515 0 71 24754 LDX #077640027 XMIT. TO 27, INT.=MODE
07516 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
07517 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 27
*
07520 0 43 00430 F0639A BRM OBJECT
07521 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 POT WORD
07522 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 POT WORD
07523 0 71 24756 LDX #077640027 XMIT. TO 27, INT.=MODE
07524 0 43 16553 BRM XMIT15 TRANSMIT ALL ONES TO BUFFER
07525 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 27
*
07526 0 43 00430 F0640A BRM OBJECT
07527 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 POT WORD
07530 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 POT WORD
07531 0 71 24757 LDX #00040027 XMIT. TO 27, INT.=MODE
07532 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
07533 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 27
*
07534 0 43 00430 F0641A BRM OBJECT
07535 0 76 24752 LDA #00100027 ACTIVATE CHANNEL 27 POT WORD
07536 0 75 24753 LDB #00120027 DEACTIVATE CHANNEL 27 POT WORD
07537 0 71 24760 LDX #045640027 XMIT. TO 27, INT.=MODE
07540 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
07541 0 43 00434 BRM END
07542 0 43 00456 BRM FDBNE
```

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```
07543 0 43 00424 * FUNC7 BRM FUNCTN
07544 0 20 17735 NBP FRT7
07545 0 43 00440 BRM RETURN
07546 0 20 15636 NBP GLICH
07547 0 02 20000 EBM 020020
07550 0 13 24511 PBT *00600000
07551 0 02 20004 EBM 020004
07552 0 76 20154 LDA M07
07553 0 35 16065 STA RDY04
07554 0 35 16069 STA RDY10
07555 0 35 16017 STA RDY16
07556 0 35 16047 STA STAT10
07557 0 35 16064 STA STAT16
07560 0 35 16114 STA 0N8F04
07561 0 35 16127 STA 0N8F10
07562 0 35 16146 STA 0N8F16
07563 0 35 16162 STA 0N8F22
07564 0 35 16217 STA CHNL04
07565 0 35 16231 STA CHNL10
07566 0 35 16250 STA CHNL16
07567 0 35 16266 STA CHNL22
07570 0 35 16322 STA BFR06
07571 0 35 16362 STA RECC6
07572 0 35 16402 STA RECC8
07573 0 35 16473 STA XMIT04
07574 0 35 16417 STA XMIT08
07575 0 35 16441 STA XMIT12
07576 0 35 16413 STA XMIT04
07577 0 35 16433 STA XMIT07
07600 0 35 16450 STA XMIT09
07601 0 35 16472 STA XMIT12
07602 0 35 16744 STA XMT004
07603 0 35 16764 STA XMT007
07604 0 35 17001 STA XMT009
07605 0 35 17023 STA XMT012
```

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

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```
07606 0 35 17075 STA 0VRN04
07607 0 35 17115 STA 0VRN08
07610 0 35 17117 STA 0VRN09
07611 0 35 17154 STA 0VRN12
```

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```
*
* TEST POT/PIN CONNECTIONS
*
07612 0 43 00430 F0700A BRM OBJECT
07613 2 02*37777 EBM* 037777,2 SELECT CTE=10
07614 0 13 24761 PBT #00120030 POT TO POT LINES
07615 0 71 24513 LDX #077772327 5 MS DELAY
07616 0 41 07616 BRX *
07617 2 02*37777 EBM* 037777,2 SELECT CTE=10
07620 0 33 20132 PIN PIN=D1 PIN THE PIN LINES
07621 0 43 00434 BRM END
```

```
*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
07622 0 43 00430 F0701A BRM SUBJECT
07623 2 02*37777 EBM* 037777,2 SELECT CTE=10
07624 0 33 20132 PIN PIN=D1 PIN THE PIN LINES
07625 0 75 20132 LDA PIN=D1 SCANNER VALUE TO A
07626 0 20 00000 NBP 0 CD17BAR=CD23BAR
07627 0 20 00000 NBP 0
07630 2 02*37777 EBM* 037777,2 SELECT CTE=10
07631 0 33 20132 PIN PIN=D1 PIN THE PIN LINES
07632 0 50 20132 SKE PIN=D1 COMPARE PIN VALUES
07633 0 01 07636 BRU F0701C SCANNER CHANGING
07634 0 43 00430 BRM ERROR SCANNER NOT CHANGING
07635 0 20 21002 NBP #0101A
07636 0 43 00434 F0701C BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 30
*
07637 0 43 00430 F0702A BRM OBJECT
07640 0 71 24506 LDX #0
07641 0 43 17166 BRM JMSG
07642 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 POT WORD
07643 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 POT WORD
07644 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07645 2 40*36430 SKS* 036430,2 TEST READY, CHANNEL 30
07646 0 43 00434 BRM END

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 30
*
07647 0 43 00430 F0703A BRM OBJECT
07650 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 POT WORD
07651 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 POT WORD
07652 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07653 2 40*36430 SKS* 036230,2 TEST CHANNEL STATUS, CHANNEL 30
07654 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 30
*
07655 0 43 00430 F0704A BRM OBJECT
07656 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07657 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07660 0 43 16070 BRM SN0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07661 2 40*36230 SKS# 036230,2 TEST CHANNEL STATUS, CHANNEL 30
07662 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 30
*
07663 0 43 00430 F0705A BRM OBJECT
07664 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07665 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07666 0 71 24763 LDX #030 CHANNEL ADDRESS 30
07667 0 43 16072 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
07670 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 30
*
07671 0 43 00430 F0706A BRM OBJECT
07672 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07673 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07674 0 43 16076 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07675 2 40*37030 SKS# 037030,2 TEST BUFFER EMPTY, CHANNEL 30
07676 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 30
*
07677 0 43 00430 F0707A BRM OBJECT
07700 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07701 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07702 0 71 24764 LDX #077600030 XMIT TO CHANNEL 30, NON-INT. MODE
07703 0 43 16332 BRM RECIPT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07704 2 40*37030 SKS# 037030,2 TEST BUFFER EMPTY, CHANNEL 30
07705 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 30
*
07706 0 43 00430 F0708A BRM OBJECT
07707 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07710 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07711 0 71 24765 LDX #0776*0030 XMIT, TO 30, INT.=MODE
07712 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
07713 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 30
*
07714 0 43 00430 F0709A BRM OBJECT
07715 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07716 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07717 0 71 24765 LDX #0776*0030 XMIT, TO 30, INT.=MODE
07720 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
07721 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 30
*
07722 0 43 0430 F0710A BRM OBJECT
07723 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07724 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07725 0 71 24766 LDX #00040030 XMIT, TO 30, INT.=MODE
07726 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
07727 0 43 0434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 30
*
07730 0 43 0430 F0711A BRM OBJECT
07731 0 76 24762 LDA #00100030 ACTIVATE CHANNEL 30 PBT WORD
07732 0 75 24761 LDB #00120030 DEACTIVATE CHANNEL 30 PBT WORD
07733 0 71 24767 LDX #045640030 XMIT, TO 30, INT.=MODE
07734 0 43 17735 BRM SVRRUN TEST OVER-RUN BIT
07735 0 43 0434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 31
*
07736 0 43 00430 F0712A BRM OBJECT
07737 0 71 24721 LDX #1
07740 0 43 17766 BRM JMSG
07741 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
07742 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
07743 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07744 2 40*36431 SKS# 036431,2 TEST READY, CHANNEL 31
07745 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 31
*
07746 0 43 00430 F0713A BRM OBJECT
07747 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
07750 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
07751 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07752 2 40*36231 SKS# 036231,2 TEST CHANNEL STATUS, CHANNEL 31
07753 0 43 00434 BRM END
```


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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 31
*
07754 0 43 00430 F0714A BRM OBJECT
07755 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
07756 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
07757 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07760 2 40*36231 SKS# 036231,2 TEST CHANNEL STATUS, CHANNEL 31
07761 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 31
*
07762 0 43 00430 F0715A BRM OBJECT
07763 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
07764 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
07765 0 71 24772 LDX #031 CHANNEL ADDRESS 31
07766 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
07767 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 16), CHANNEL 31
*
07770 0 43 00430 F0716A BRM OBJECT
07771 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
07772 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
07773 0 43 16076 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
07774 2 40*37031 SKS# 037031,2 TEST BUFFER EMPTY, CHANNEL 31
07775 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 31
*
07776 0 43 00430 F0717A BRM OBJECT
07777 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
10000 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
10001 0 71 24772 LDX #077600031 XMIT TO CHANNEL 31, NON-INT, MODE
10002 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10003 2 40*37031 SKS# 037031,2 TEST BUFFER EMPTY, CHANNEL 31
10004 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 31
*
10005 0 43 00430 F0718A BRM OBJECT
10006 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
10007 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
10010 0 71 24772 LDX #077640031 XMIT TO 31, INT==MODE
10011 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
10012 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 31
*
10013 0 43 00430 F0719A BRM OBJECT
10014 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 PBT WORD
10015 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 PBT WORD
10016 0 71 24772 LDX #077640031 XMIT TO 31, INT==MODE
10017 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
10020 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 31
*
10021 0 43 00430 F0720A BRM OBJECT
10022 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 POT WORD
10023 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 POT WORD
10024 0 71 24775 LDX #00040031 XMIT. TO 31, INT.=MODE
10025 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
10026 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 31
*
10027 0 43 00430 F0721A BRM OBJECT
10030 0 76 24770 LDA #00100031 ACTIVATE CHANNEL 31 POT WORD
10031 0 75 24771 LDB #00120031 DEACTIVATE CHANNEL 31 POT WORD
10032 0 71 24776 LDX #045640031 XMIT. TO 31, INT.=MODE
10033 0 43 17735 BRM OVRRUN TEST OVER-RUN BIT
10034 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 32
*
10035 0 43 00430 F0722A BRM OBJECT
10036 0 71 24730 LDX #2
10037 0 43 17166 BRM JMSG
10040 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 POT WORD
10041 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 POT WORD
10042 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10043 2 40 36432 SKS# 034432,2 TEST READY, CHANNEL 32
10044 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 32
*
10045 0 43 00430 F0723A BRM OBJECT
10046 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 POT WORD
10047 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 POT WORD
10050 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10051 2 40 36232 SKS# 036232,2 TEST CHANNEL STATUS, CHANNEL 32
10052 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 32
*
10053 0 43 00430 F0724A BRM OBJECT
10054 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 P0T WORD
10055 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 P0T WORD
10056 0 43 16270 BRM 040FF5 TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10057 2 40*37032 SKS# 036232,2 TEST CHANNEL STATUS, CHANNEL 32
10060 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 32
*
10061 0 43 00430 F0725A BRM OBJECT
10062 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 P0T WORD
10063 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 P0T WORD
10064 0 71 25001 LDX #032 CHANNEL ADDRESS 32
10065 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
10066 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 32
*
10067 0 43 00430 F0726A BRM OBJECT
10070 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 P0T WORD
10071 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 P0T WORD
10072 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10073 2 40*37032 SKS# 037032,2 TEST BUFFER EMPTY, CHANNEL 32
10074 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 32
*
10075 0 43 00430 F0727A BRM OBJECT
10076 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 P0T WORD
10077 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 P0T WORD
10100 0 71 25002 LDX #077600032 XMIT TO CHANNEL 32, NON-INT. MODE
10101 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10102 2 40*37032 SKS# 037032,2 TEST BUFFER EMPTY, CHANNEL 32
10103 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 32
*
10104 0 43 00430 F0728A BRM OBJECT
10105 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 P0T WORD
10106 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 P0T WORD
10107 0 71 25003 LDX #077640032 XMIT, TO 32, INT.=MODE
10110 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
10111 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 32
*
10112 0 43 00430 F0729A BRM OBJECT
10113 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 P0T WORD
10114 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 P0T WORD
10115 0 71 25003 LDX #077640032 XMIT, TO 32, INT.=MODE
10116 0 43 16553 BRM XMIT15 TRANSMIT ALL ONES TO BUFFER
10117 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 32
*
10120 0 43 00430 F0730A BRM OBJECT
10121 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 PBT WORD
10122 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 PBT WORD
10123 0 71 25004 LDX #00040032 XMIT. TO 32, INT.=MODE
10124 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
10125 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 32
*
10126 0 43 00430 F0731A BRM OBJECT
10127 0 76 24777 LDA #00100032 ACTIVATE CHANNEL 32 PBT WORD
10130 0 75 25000 LDB #00120032 DEACTIVATE CHANNEL 32 PBT WORD
10131 0 71 25005 LDX #045640032 XMIT. TO 32, INT.=MODE
10132 0 43 17095 BRM OVERRUN TEST OVER-RUN BIT
10133 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 33
*
10134 0 43 00430 F0732A BRM OBJECT
10135 0 71 24537 LDX #3
10136 0 43 17166 BRM JMSG
10137 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10140 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10141 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10142 2 40*36433 SKS# 036433,2 TEST READY, CHANNEL 33
10143 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 33
*
10144 0 43 00430 F0733A BRM OBJECT
10145 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10146 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10147 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10150 2 40*36233 SKS# 036233,2 TEST CHANNEL STATUS, CHANNEL 33
10151 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 33
*
10152 0 43 00430 F0734A BRM OBJECT
10153 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10154 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10155 0 43 16070 BRM 5N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10156 2 40*36233 SKS# 036233,2 TEST CHANNEL STATUS, CHANNEL 33
10157 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 33
*
10160 0 43 00430 F0735A BRM OBJECT
10161 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10162 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10163 0 71 25010 LDX #033 CHANNEL ADDRESS 33
10164 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
10165 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 33
*
10166 0 43 00430 F0736A BRM OBJECT
10167 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10170 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10171 0 43 16076 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10172 2 40*37033 SKS# 037033,2 TEST BUFFER EMPTY, CHANNEL 33
10173 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 33
*
10174 0 43 00430 F0737A BRM OBJECT
10175 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10176 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10177 0 71 25011 LDX #07760033 XMIT TO CHANNEL 33, NON-INT. MODE
10200 0 43 16032 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10201 2 40*37033 SKS# 037033,2 TEST BUFFER EMPTY, CHANNEL 33
10202 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 33
*
10203 0 43 00430 F0738A BRM OBJECT
10204 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10205 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10206 0 71 25012 LDX #077640033 XMIT, TO 33, INT.=MODE
10207 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
10210 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 33
*
10211 0 43 00430 F0739A BRM OBJECT
10212 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 PBT WORD
10213 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 PBT WORD
10214 0 71 25012 LDX #077640033 XMIT, TO 33, INT.=MODE
10215 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
10216 0 43 00434 BRM END
```

```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 33
*
10217 0 43 00430 F0740A BRM OBJECT
10220 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 POT WORD
10221 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 POT WORD
10222 0 71 25013 LDX #00040033 XMIT. TO 33, INT.=MODE
10223 0 43 17004 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
10224 0 43 00434 BRM END
*
* TEST BVFR=RUN BIT (BIT 8), CHANNEL 33
*
10225 0 43 00430 F0741A BRM OBJECT
10226 0 76 25006 LDA #00100033 ACTIVATE CHANNEL 33 POT WORD
10227 0 75 25007 LDB #00120033 DEACTIVATE CHANNEL 33 POT WORD
10230 0 71 25014 LDX #045640033 XMIT. TO 33, INT.=MODE
10231 0 43 17035 BRM BVRRUN TEST BVFR=RUN BIT
10232 0 43 00434 BRM END
10233 0 43 00456 BRM DONE

```

```

*
*
10234 0 43 00424 FUNCB BRM FUNCTN
10235 0 20 17750 NBP FPT8
10236 0 43 00440 BRM RETURN
10237 0 20 18436 NBP GLICH
10240 0 02 20020 EBM 020020
10241 0 13 24511 PBT #00600000 DISARM EXTERNAL INTERRUPTS
10242 0 02 20004 EBM 020004 DISABLE INTERRUPTS
10243 0 76 20155 LDA M08 INITIALIZE CHASSIS DIRECTIVE
10244 0 35 15765 STA RDY04
10245 0 35 16002 STA RDY10
10246 0 35 16017 STA RDY16
10247 0 35 16047 STA STAT10
10250 0 35 16064 STA STAT16
10251 0 35 16114 STA 0N0F04
10252 0 35 16127 STA 0N0F10
10253 0 35 16146 STA 0N0F16
10254 0 35 16162 STA 0N0F22
10255 0 35 16213 STA CHNL04
10256 0 35 16231 STA CHNL10
10257 0 35 16250 STA CHNL16
10260 0 35 16266 STA CHNL22
10261 0 35 16320 STA BFR06
10262 0 35 16362 STA RECO6
10263 0 35 16402 STA RECO8
10264 0 35 16473 STA XMIT04
10265 0 35 16517 STA XMIT08
10266 0 35 16541 STA XMIT12
10267 0 35 16613 STA XMT104
10270 0 35 16633 STA XMT107
10271 0 35 16650 STA XMT109
10272 0 35 16672 STA XMT112
10273 0 35 16744 STA XMT004
10274 0 35 16764 STA XMT007
10275 0 35 17001 STA XMT009
10276 0 35 17023 STA XMT012

```

```

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10277 0 35 17:75    STA    0VRN04
10300 0 35 17:15    STA    0VRN08
10301 0 35 17:17    STA    0VRN09
10302 0 35 17:54    STA    0VRN12

```

```

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```

```

*
*   TEST PBT/PIN CONNECTIONS
*

```

```

10303 0 43 00430    F0800A BRM    OBJECT
10304 2 02*37777    E0M*    037777,2    SELECT CTE=10
10305 0 13 25015    PBT     #00120034    PBT TO PBT LINES
10306 0 71 24313    LDX     #077772327 5 MS DELAY
10307 0 41 10307    BRX     *
10310 2 02*37777    E0M*    037777,2    SELECT CTE=10
10311 0 33 20132    PIN     PINWD1    PIN THE PIN LINES
10312 0 43 00434    BRM     END

```

```

*
*   TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*

```

```

10313 0 43 00430    F0801A BRM    OBJECT
10314 2 02*37777    E0M*    037777,2    SELECT CTE=10
10315 0 33 20132    PIN     PINWD1    PIN THE PIN LINES
10316 0 76 20132    LDA     PINWD1    SCANNER VALUE TO A
10317 0 20 00000    NBP     0          CD17BAR=CD23BAR
10320 0 20 00000    NBP     0
10321 2 02*37777    E0M*    037777,2    SELECT CTE=10
10322 0 33 20132    PIN     PINWD1    PIN THE PIN LINES
10323 0 50 20132    SKE     PINWD1    COMPARE PIN VALUES
10324 0 01 10327    BRU     F0801C    SCANNER CHANGING
10325 0 43 00460    BRM     ERROR     SCANNER NOT CHANGING
10326 0 20 21302    NBP     *0101A
10327 0 43 00434    F0801C BRM     END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 34
*
10330 0 43 01430 F0802A BRM OBJECT
10331 0 71 24006 LDX #0
10332 0 43 17166 BRM JMSG
10333 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 POT WORD
10334 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 POT WORD
10335 0 43 17251 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10336 2 40*36434 SKS# 036434,2 TEST READY, CHANNEL 34
10337 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 34
*
10340 0 43 01430 F0803A BRM OBJECT
10341 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 POT WORD
10342 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 POT WORD
10343 0 43 16223 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10344 2 40*36234 SKS# 036234,2 TEST CHANNEL STATUS, CHANNEL 34
10345 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 34
*
10346 0 43 00430 F0804A BRM OBJECT
10347 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 POT WORD
10350 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 POT WORD
10351 0 43 16270 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10352 2 40*36234 SKS# 036234,2 TEST CHANNEL STATUS, CHANNEL 34
10353 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 34
*
10354 0 43 00430 F0805A BRM OBJECT
10355 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 POT WORD
10356 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 POT WORD
10357 0 71 25017 LDX #034 CHANNEL ADDRESS 34
10360 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
10361 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 34
*
10362 0 43 00430 F0806A BRM OBJECT
10363 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 POT WORD
10364 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 POT WORD
10365 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10366 2 40*37034 SKS# 037034,2 TEST BUFFER EMPTY, CHANNEL 34
10367 0 43 00434 BRM END
```


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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 34
*
10370 0 43 00430 F0807A BRM OBJECT
10371 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 P0T WORD
10372 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 P0T WORD
10373 0 71 25020 LDX #077600034 XMIT TO CHANNEL 34, N0N=INT, M0DE
10374 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10375 2 40 37034 SKS# 037034,2 TEST BUFFER EMPTY, CHANNEL 34
10376 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 34
*
10377 0 43 00430 F0808A BRM OBJECT
10400 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 P0T WORD
10401 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 P0T WORD
10402 0 71 25021 LDX #077640034 XMIT TO 34, INT=MODE
10403 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
10404 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 34
*
10405 0 43 00430 F0809A BRM OBJECT
10406 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 P0T WORD
10407 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 P0T WORD
10410 0 71 25021 LDX #077640034 XMIT TO 34, INT=MODE
10411 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
10412 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 34
*
10413 0 43 00430 F0810A BRM OBJECT
10414 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 P0T WORD
10415 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 P0T WORD
10416 0 71 25022 LDX #00040034 XMIT TO 34, INT=MODE
10417 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
10420 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 34
*
10421 0 43 00430 F0811A BRM OBJECT
10422 0 76 25016 LDA #00100034 ACTIVATE CHANNEL 34 P0T WORD
10423 0 75 25015 LDB #00120034 DEACTIVATE CHANNEL 34 P0T WORD
10424 0 71 25023 LDX #045640034 XMIT TO 34, INT=MODE
10425 0 43 17035 BRM 8VRRJN TEST OVER-RUN BIT
10426 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 35
*
10427 0 43 00430 F0812A BRM OBJECT
10430 0 71 24521 LDX #1
10431 0 43 17166 BRM JMSG
10432 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10433 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10434 0 43 14751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10435 2 40*36434 SKS# 036435,2 TEST READY, CHANNEL 35
10436 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 35
*
10437 0 43 00430 F0813A BRM OBJECT
10440 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10441 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10442 0 43 14727 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10443 2 40*36235 SKS# 036235,2 TEST CHANNEL STATUS, CHANNEL 35
10444 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 35
*
10445 0 43 00430 F0814A BRM OBJECT
10446 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10447 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10450 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10451 2 40*36235 SKS# 036235,2 TEST CHANNEL STATUS, CHANNEL 35
10452 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 35
*
10453 0 43 00430 F0815A BRM OBJECT
10454 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10455 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10456 0 71 25026 LDX #035 CHANNEL ADDRESS 35
10457 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
10460 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 35
*
10461 0 43 00430 F0816A BRM OBJECT
10462 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10463 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10464 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10465 2 40*37035 SKS# 037035,2 TEST BUFFER EMPTY, CHANNEL 35
10466 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 35
*
10467 0 43 00430 F0817A BRM OBJECT
10470 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10471 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10472 0 71 25027 LDX #07760035 XMIT TO CHANNEL 35, NON-INT. MODE
10473 0 43 10032 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10474 2 40 37035 SKS# 037035,2 TEST BUFFER EMPTY, CHANNEL 35
10475 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 35
*
10476 0 43 00430 F0818A BRM OBJECT
10477 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10500 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10501 0 71 25030 LDX #077640035 XMIT. TO 35, INT.=MODE
10502 0 43 10433 BRM XMITINT TEST TRANSMIT INTERRUPT
10503 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 35
*
10504 0 43 00430 F0819A BRM OBJECT
10505 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10506 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10507 0 71 25030 LDX #077640035 XMIT. TO 35, INT.=MODE
10510 0 43 10503 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
10511 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 35
*
10512 0 43 00430 F0820A BRM OBJECT
10513 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10514 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10515 0 71 25031 LDX #00040035 XMIT. TO 35, INT.=MODE
10516 0 43 10704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
10517 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 35
*
10520 0 43 00430 F0821A BRM OBJECT
10521 0 76 25024 LDA #00100035 ACTIVATE CHANNEL 35 PBT WORD
10522 0 75 25025 LDB #00120035 DEACTIVATE CHANNEL 35 PBT WORD
10523 0 71 25032 LDX #045640035 XMIT. TO 35, INT.=MODE
10524 0 43 17035 BRM OVRUN TEST OVER-RUN BIT
10525 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 36
*
10526 0 43 00430 F0822A BRM OBJECT
10527 0 71 24530 LDY #2
10530 0 43 17166 BRM JMSG
10531 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10532 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10533 0 43 10751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10534 0 40*37036 SKS# 036436,2 TEST READY, CHANNEL 36
10535 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 36
*
10536 0 43 00430 F0823A BRM OBJECT
10537 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10540 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10541 0 43 10751 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10542 0 40*37036 SKS# 036236,2 TEST CHANNEL STATUS, CHANNEL 36
10543 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 36
*
10544 0 43 00430 F0824A BRM OBJECT
10545 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10546 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10547 0 43 10770 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10550 0 40*36236 SKS# 036236,2 TEST CHANNEL STATUS, CHANNEL 36
10551 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 36
*
10552 0 43 00430 F0825A BRM OBJECT
10553 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10554 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10555 0 71 25035 LDX #036 CHANNEL ADDRESS 36
10556 0 43 10172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
10557 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 36
*
10560 0 43 00430 F0826A BRM OBJECT
10561 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10562 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10563 0 43 10276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10564 0 40*37036 SKS# 037036,2 TEST BUFFER EMPTY, CHANNEL 36
10565 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 36
*
10566 0 43 00430 FOR27A BRM OBJECT
10567 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10570 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10571 0 71 25036 LDX #077600036 XMIT TO CHANNEL 36, NON-INT, MODE
10572 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10573 2 40 27036 SKS# 037036,2 TEST BUFFER EMPTY, CHANNEL 36
10574 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 36
*
10575 0 43 00430 FOR28A BRM OBJECT
10576 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10577 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10600 0 71 25037 LDX #077640036 XMIT. TO 36, INT.=MODE
10601 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
10602 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 36
*
10603 0 43 00430 FOR29A BRM OBJECT
10604 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10605 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10606 0 71 25037 LDX #077640036 XMIT. TO 36, INT.=MODE
10607 0 43 16533 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
10610 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 36
*
10611 0 43 00430 FOR30A BRM OBJECT
10612 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10613 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10614 0 71 25040 LDX #00040036 XMIT. TO 36, INT.=MODE
10615 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
10616 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 36
*
10617 0 43 00430 FOR31A BRM OBJECT
10620 0 76 25033 LDA #00100036 ACTIVATE CHANNEL 36 PBT WORD
10621 0 75 25034 LDB #00120036 DEACTIVATE CHANNEL 36 PBT WORD
10622 0 71 25041 LDX #045640036 XMIT. TO 36, INT.=MODE
10623 0 43 17035 BRM BVRRUN TEST OVER-RUN BIT
10624 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 37
*
10625 0 43 00430 F0832A BRM OBJECT
10626 0 71 24537 LDX #3
10627 0 43 17166 BRM JMSG
10630 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10631 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10632 0 43 10751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10633 2 40*36237 SKS# 036437,2 TEST READY, CHANNEL 37
10634 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 37
*
10635 0 43 00430 F0833A BRM OBJECT
10636 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10637 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10640 0 43 10723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10641 2 40*36237 SKS# 036237,2 TEST CHANNEL STATUS, CHANNEL 37
10642 0 43 00434 BRM END
```

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```
*
* TEST BN/OFF INTERRUPT, CHANNEL 37
*
10643 0 43 00430 F0834A BRM OBJECT
10644 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10645 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10646 0 43 16070 BRM BN/OFFS TEST THE BN/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10647 2 40*36237 SKS# 036237,2 TEST CHANNEL STATUS, CHANNEL 37
10650 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 37
*
10651 0 43 00430 F0835A BRM OBJECT
10652 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10653 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10654 0 71 25044 LDX #037 CHANNEL ADDRESS 37
10655 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
10656 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 37
*
10657 0 43 00430 F0836A BRM OBJECT
10660 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10661 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10662 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10663 2 40*37037 SKS# 037037,2 TEST BUFFER EMPTY, CHANNEL 37
10664 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 37
*
10665 0 43 00430 F0837A BRM OBJECT
10666 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10667 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10670 0 71 25045 LDX #077600037 XMIT TO CHANNEL 37, NON=INT, MODE
10671 0 43 16032 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
10672 2 40 37037 SKS# 037037,2 TEST BUFFER EMPTY, CHANNEL 37
10673 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 37
*
10674 0 43 00430 F0838A BRM OBJECT
10675 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10676 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10677 0 71 25046 LDX #077600037 XMIT TO 37, INT=MODE
10700 0 43 16033 BRM XMTINT TEST TRANSMIT INTERRUPT
10701 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 37
*
10702 0 43 00430 F0839A BRM OBJECT
10703 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10704 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10705 0 71 25046 LDX #077640037 XMIT TO 37, INT=MODE
10706 0 43 16053 BRM XMIT15 TRANSMIT ALL ONES TO BUFFER
10707 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 37
*
10710 0 43 00430 F0840A BRM OBJECT
10711 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10712 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10713 0 71 25047 LDX #00040037 XMIT TO 37, INT=MODE
10714 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
10715 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 37
*
10716 0 43 00430 F0841A BRM OBJECT
10717 0 76 25042 LDA #00100037 ACTIVATE CHANNEL 37 PBT WORD
10720 0 75 25043 LDB #00120037 DEACTIVATE CHANNEL 37 PBT WORD
10721 0 71 25050 LDX #045640037 XMIT TO 37, INT=MODE
10722 0 43 17035 BRM OVRRUN TEST OVER=RUN BIT
10723 0 43 00434 BRM END
10724 0 43 00456 BRM FDBNE
```

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*
FUNC9
10725 0 43 00424 BRM FUNCTN
10726 0 20 17763 M8P FRT9
10727 0 43 00440 BRM RETURN
10730 0 20 15636 M8P GLICH
10731 0 02 20020 E8M 020020
10732 0 13 24411 P8T *00600000
10733 0 02 20004 E8M 020004
10734 0 74 20156 LDA M09
10735 0 35 16765 STA RDY04
10736 0 35 16702 STA RDY10
10737 0 35 16717 STA RDY16
10740 0 35 16747 STA STAT10
10741 0 35 16764 STA STAT16
10742 0 35 16714 STA 8NBF04
10743 0 35 16727 STA 8NBF10
10744 0 35 16744 STA 8NBF16
10745 0 35 16762 STA 8NBF22
10746 0 35 16713 STA CHNL04
10747 0 35 16731 STA CHNL10
10750 0 35 16750 STA CHNL16
10751 0 35 16766 STA CHNL22
10752 0 35 16707 STA BFR06
10753 0 35 16762 STA REC06
10754 0 35 16702 STA REC08
10755 0 35 16773 STA XMIT04
10756 0 35 16717 STA XMIT08
10757 0 35 16741 STA XMIT12
10760 0 35 16413 STA XMT104
10761 0 35 16433 STA XMT107
10762 0 35 16450 STA XMT109
10763 0 35 16472 STA XMT112
10764 0 35 16744 STA XMT004
10765 0 35 16764 STA XMT007
10766 0 35 17001 STA XMT009
10767 0 35 17023 STA XMT012

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

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10770 0 35 17075 STA 8VRN04
10771 0 35 17115 STA 8VRN08
10772 0 35 17117 STA 8VRN09
10773 0 35 17154 STA 8VRN12

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*
* TEST POT/PIN CONNECTIONS
*

10774 0 43 00430 F0900A BRM OBJECT
10775 2 02*37777 EBM* 037777,2 SELECT CTE=10
10776 0 13 25051 PGT #00120040 POT TO POT LINES
10777 0 71 24513 LDX #077772327 5 MS DELAY
11000 0 41 11000 BRX *
11001 2 02*37777 EBM* 037777,2 SELECT CTE=10
11002 0 33 20132 PIN PIN=01 PIN THE PIN LINES
11003 0 43 00434 BRM END

*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*

11004 0 43 00430 F0901A BRM OBJECT
11005 2 02*37777 EBM* 037777,2 SELECT CTE=10
11006 0 33 20132 PIN PIN=01 PIN THE PIN LINES
11007 0 76 20132 LDA PIN=01 SCANNER VALUE TO A
11010 0 20 00000 NOP 0 CD17BAR=CD23BAR
11011 0 20 00000 NOP 0
11012 2 02*37777 EBM* 037777,2 SELECT CTE=10
11013 0 33 20132 PIN PIN=01 PIN THE PIN LINES
11014 0 50 20132 SKE PIN=01 COMPARE PIN VALUES
11015 0 01 11000 BRU F0901C SCANNER CHANGING
11016 0 43 00460 BRM ERROR SCANNER NOT CHANGING
11017 0 20 21302 NOP *0101A
11020 0 43 00434 F0901C BRM END

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*
* TEST READY SKS (BIT 15), CHANNEL 40
*

11021 0 43 00430 F0902A BRM OBJECT
11022 0 71 24506 LDX #0
11023 0 43 17166 BRM JMSG
11024 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 POT WORD
11025 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 POT WORD
11026 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*

11027 2 40*36440 SKS* 036440,2 TEST READY, CHANNEL 40
11030 0 43 00434 BRM END

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 40
*

11031 0 43 00430 F0903A BRM OBJECT
11032 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 POT WORD
11033 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 POT WORD
11034 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*

11035 2 40*36240 SKS* 036240,2 TEST CHANNEL STATUS, CHANNEL 40
11036 0 43 00434 BRM END

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```
*
* TEST BN/OFF INTERRUPT, CHANNEL 40
*
11037 0 43 00430 F0904A BRM OBJECT
11040 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11041 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11042 0 43 16070 BRM BNFFFS TEST THE BN/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11043 2 40*36240 SKS# 036240,2 TEST CHANNEL STATUS, CHANNEL 40
11044 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 40
*
11045 0 43 00430 F0905A BRM OBJECT
11046 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11047 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11050 0 71 25053 LDX #04C CHANNEL ADDRESS 40
11051 0 43 16072 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
11052 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 40
*
11053 0 43 00430 F0906A BRM OBJECT
11054 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11055 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11056 0 43 16074 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11057 2 40*37040 SKS# 037040,2 TEST BUFFER EMPTY, CHANNEL 40
11060 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 40
*
11061 0 43 00430 F0907A BRM OBJECT
11062 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11063 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11064 0 71 25054 LDX #07760040 XMIT TO CHANNEL 40, NON-INT. MODE
11065 0 43 16032 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11066 2 40*37040 SKS# 037040,2 TEST BUFFER EMPTY, CHANNEL 40
11067 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 40
*
11070 0 43 00430 F0908A BRM OBJECT
11071 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11072 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11073 0 71 25055 LDX #077640040 XMIT. TO 40, INT.=MODE
11074 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
11075 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 40
*
11076 0 43 00430 F0909A BRM OBJECT
11077 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11100 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11101 0 71 25055 LDX #077640040 XMIT. TO 40, INT.=MODE
11102 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
11103 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 40
*
11104 0 43 00430 F0910A BRM OBJECT
11105 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11106 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11107 0 71 25056 LDX #00040040 XMIT. TO 40, INT.=MODE
11110 0 43 16724 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
11111 0 43 00434 BRM END
```

```
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 40
*
11112 0 43 00430 F0911A BRM OBJECT
11113 0 76 25052 LDA #00100040 ACTIVATE CHANNEL 40 PBT WORD
11114 0 75 25051 LDB #00120040 DEACTIVATE CHANNEL 40 PBT WORD
11115 0 71 25057 LDX #045640040 XMIT. TO 40, INT.=MODE
11116 0 43 17035 BRM SVRRUN TEST OVER-RUN BIT
11117 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 41
*
11120 0 43 00430 F0912A BRM OBJECT
11121 0 71 24521 LDX #1
11122 0 43 17166 BRM JMSG
11123 0 76 25060 LDA #00100041 ACTIVATE CHANNEL 41 PBT WORD
11124 0 75 25061 LDB #00120041 DEACTIVATE CHANNEL 41 PBT WORD
11125 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11126 2 40*36441 SKS* 036441,2 TEST READY, CHANNEL 41
11127 0 43 00434 BRM END
```

```
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 41
*
11130 0 43 00430 F0913A BRM OBJECT
11131 0 76 25060 LDA #00100041 ACTIVATE CHANNEL 41 PBT WORD
11132 0 75 25061 LDB #00120041 DEACTIVATE CHANNEL 41 PBT WORD
11133 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11134 2 40*36241 SKS* 036241,2 TEST CHANNEL STATUS, CHANNEL 41
11135 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 41
*
11136 0 43 00430 F0914A BRM OBJECT
11137 0 76 25760 LDA #00100041 ACTIVATE CHANNEL 41 POT WORD
11140 0 75 25761 LDB #00120041 DEACTIVATE CHANNEL 41 POT WORD
11141 0 43 16270 BRM 0A0FF5 TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11142 P 40*36241 SKS# 036241,2 TEST CHANNEL STATUS, CHANNEL 41
11143 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 41
*
11144 0 43 00430 F0915A BRM OBJECT
11145 0 76 25760 LDA #00100041 ACTIVATE CHANNEL 41 POT WORD
11146 0 75 25761 LDB #00120041 DEACTIVATE CHANNEL 41 POT WORD
11147 0 71 25762 LDX #041 CHANNEL ADDRESS 41
11150 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
11151 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 41
*
11152 0 43 00430 F0916A BRM OBJECT
11153 0 76 25760 LDA #00100041 ACTIVATE CHANNEL 41 POT WORD
11154 0 75 25761 LDB #00120041 DEACTIVATE CHANNEL 41 POT WORD
11155 0 43 16276 BRM 5FRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11156 P 40*37041 SKS# 037041,2 TEST BUFFER EMPTY, CHANNEL 41
11157 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 41
*
11160 0 43 00430 F0917A BRM OBJECT
11161 0 76 25760 LDA #00100041 ACTIVATE CHANNEL 41 POT WORD
11162 0 75 25761 LDB #00120041 DEACTIVATE CHANNEL 41 POT WORD
11163 0 71 25763 LDX #077600041 XMIT TO CHANNEL 41, NON-INT. MODE
11164 0 43 16232 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11165 P 40*37041 SKS# 037041,2 TEST BUFFER EMPTY, CHANNEL 41
11166 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 41
*
11167 0 43 00430 F0918A BRM OBJECT
11170 0 76 25760 LDA #00100041 ACTIVATE CHANNEL 41 POT WORD
11171 0 75 25761 LDB #00120041 DEACTIVATE CHANNEL 41 POT WORD
11172 0 71 25764 LDX #077640041 XMIT, TO 41, INT.=MODE
11173 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
11174 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 41
*
11175 0 43 00430 F0919A BRM OBJECT
11176 0 76 25760 LDA #00100041 ACTIVATE CHANNEL 41 POT WORD
11177 0 75 25761 LDB #00120041 DEACTIVATE CHANNEL 41 POT WORD
11200 0 71 25764 LDX #077640041 XMIT, TO 41, INT.=MODE
11201 0 43 16553 BRM XMITIS TRANSMIT ALL ONES TO BUFFER
11202 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 41
*
F0920A BRM 0BJECT
11203 0 43 00430 LDA #00100041 ACTIVATE CHANNEL 41 P0T WORD
11204 0 76 25060 LDB #00120041 DEACTIVATE CHANNEL 41 P0T WORD
11205 0 75 25061 LDX #00040041 XMIT, TO 41, INT=MODE
11206 0 71 25065 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
11207 0 43 17004 BRM END
11210 0 43 00434
```

```
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 41
*
F0921A BRM 0BJECT
11211 0 43 00430 LDA #00100041 ACTIVATE CHANNEL 41 P0T WORD
11212 0 76 25060 LDB #00120041 DEACTIVATE CHANNEL 41 P0T WORD
11213 0 75 25061 LDX #045640041 XMIT, TO 41, INT=MODE
11214 0 71 25066 BRM 0VRRUN TEST OVER-RUN BIT
11215 0 43 17035 BRM END
11216 0 43 00434
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 42
*
F0922A BRM 0BJECT
11217 0 43 00430 LDX #2
11220 0 71 24530 BRM JMSG
11221 0 43 17166 LDA #00100042 ACTIVATE CHANNEL 42 P0T WORD
11222 0 76 25067 LDB #00120042 DEACTIVATE CHANNEL 42 P0T WORD
11223 0 75 25070 BRM RDYSKS TEST THE READY SKS (BIT 15)
11224 0 43 17051
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
11225 2 40*36442 SKS# 036442,2 TEST READY, CHANNEL 42
11226 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 42
*
F0923A BRM 0BJECT
11227 0 43 00430 LDA #00100042 ACTIVATE CHANNEL 42 P0T WORD
11230 0 76 25067 LDB #00120042 DEACTIVATE CHANNEL 42 P0T WORD
11231 0 75 25070 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
11232 0 43 16023
*
* THE NEXT ENTRY IS AN 0BJECT PROGRAM VARIABLE
*
11233 2 40*36242 SKS# 036242,2 TEST CHANNEL STATUS, CHANNEL 42
11234 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 42
*
11235 0 43 00430 F0924A BRM OBJECT
11236 0 76 25067 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11237 0 75 25070 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11240 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11241 2 40*36242 SKS# 036242,2 TEST CHANNEL STATUS, CHANNEL 42
11242 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 42
*
11243 0 43 00430 F0925A BRM OBJECT
11244 0 76 25067 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11245 0 75 25070 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11246 0 71 25071 LDX #042 CHANNEL ADDRESS 42
11247 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
11250 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 42
*
11251 0 43 00430 F0926A BRM OBJECT
11252 0 76 25067 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11253 0 75 25070 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11254 0 43 16276 BRM 0FRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11255 2 40*37042 SKS# 037042,2 TEST BUFFER EMPTY, CHANNEL 42
11256 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 42
*
11257 0 43 00430 F0927A BRM OBJECT
11260 0 76 25067 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11261 0 75 25070 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11262 0 71 25072 LDX #077600042 XMIT TO CHANNEL 42, NON-INT, MODE
11263 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11264 2 40*37042 SKS# 037042,2 TEST BUFFER EMPTY, CHANNEL 42
11265 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 42
*
11266 0 43 00430 F0928A BRM OBJECT
11267 0 76 25067 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11270 0 75 25070 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11271 0 71 25073 LDX #077640042 XMIT, TO 41, INT==MODE
11272 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
11273 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 42
*
11274 0 43 00430 F0929A BRM OBJECT
11275 0 76 25067 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11276 0 75 25070 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11277 0 71 25073 LDX #077640042 XMIT, TO 42, INT==MODE
11300 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
11301 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 42
*
11302 0 43 00430 F0930A BRM 0BJECT
11303 0 76 25467 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11304 0 75 25470 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11305 0 71 25474 LDX #00040042 XMIT. TO 42, INT.=MODE
11306 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
11307 0 43 00434 BRM END
```

```
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 42
*
11310 0 43 00430 F0931A BRM 0BJECT
11311 0 76 25467 LDA #00100042 ACTIVATE CHANNEL 42 PBT WORD
11312 0 75 25470 LDB #00120042 DEACTIVATE CHANNEL 42 PBT WORD
11313 0 71 25475 LDX #045640042 XMIT. TO 42, INT.=MODE
11314 0 43 17435 BRM 0VRRUN TEST OVER-RUN BIT
11315 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 43
*
11316 0 43 00430 F0932A BRM 0BJECT
11317 0 71 24537 LDX #3
11320 0 43 17166 BRM JM5G
11321 0 76 25476 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11322 0 75 25477 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11323 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11324 2 40*36443 SKS# 036443,2 TEST READY, CHANNEL 43
11325 0 43 00434 BRM END
```

```
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 43
*
11326 0 43 00430 F0933A BRM 0BJECT
11327 0 76 25476 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11330 0 75 25477 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11331 0 43 16223 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
```

```
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11332 2 40*36443 SKS# 036243,2 TEST CHANNEL STATUS, CHANNEL 43
11333 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 43
*
11334 0 43 00430 F0934A BRM OBJECT
11335 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11336 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11337 0 43 16070 BRM 0B0FF5 TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11340 2 40*36243 SKS# 036243,2 TEST CHANNEL STATUS, CHANNEL 43
11341 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 43
*
11342 0 43 00430 F0935A BRM OBJECT
11343 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11344 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11345 0 71 25100 LDX #043 CHANNEL ADDRESS 43
11346 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
11347 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 43
*
11350 0 43 00430 F0936A BRM OBJECT
11351 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11352 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11353 0 43 16076 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11354 2 40*37043 SKS# 037043,2 TEST BUFFER EMPTY, CHANNEL 43
11355 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 43
*
11356 0 43 00430 F0937A BRM OBJECT
11357 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11360 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11361 0 71 25101 LDX #07760043 XMIT TO CHANNEL 43, NON=INT, MODE
11362 0 43 16032 BRM RECIINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11363 2 40*37043 SKS# 037043,2 TEST BUFFER EMPTY, CHANNEL 43
11364 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 43
*
11365 0 43 00430 F0938A BRM OBJECT
11366 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11367 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11370 0 71 25102 LDX #077640043 XMIT, TO 43, INT=MODE
11371 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
11372 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 43
*
11373 0 43 00430 F0939A BRM OBJECT
11374 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11375 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11376 0 71 25102 LDX #077640043 XMIT, TO 43, INT=MODE
11377 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
11400 0 43 00434 BRM END
```


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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 43
*
11401 0 43 00430 F0940A BRM OBJECT
11402 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11403 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11404 0 71 25103 LDX #00040043 XMIT, TO 43, INT.=MODE
11405 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
11406 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 43
*
11407 0 43 00430 F0941A BRM OBJECT
11410 0 76 25076 LDA #00100043 ACTIVATE CHANNEL 43 PBT WORD
11411 0 75 25077 LDB #00120043 DEACTIVATE CHANNEL 43 PBT WORD
11412 0 71 25104 LDX #045640043 XMIT, TO 43, INT.=MODE
11413 0 43 17135 BRM SVRRUN TEST OVER-RUN BIT
11414 0 43 00434 BRM END
11415 0 43 00456 BRM FDBNE

```

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```

*
* FUNC10 BRM FUNCTN
11416 0 43 00424 FUNC10 BRM FUNCTN
11417 0 20 17776 NBP FBT10
11420 0 43 00440 BRM RETURN
11421 0 20 15636 NBP GLICH
11422 0 02 20020 EBM 020020
11423 0 13 24511 PBT #00600000 DISARM EXTERNAL INTERRUPTS
11424 0 02 20004 EBM 020004 DISABLE INTERRUPTS
11425 0 76 20157 LDA M10 INITIALIZE CHASSIS DIRECTIVE
11426 0 35 15765 STA RDY04
11427 0 35 16002 STA RDY10
11430 0 35 16017 STA RDY16
11431 0 35 16047 STA STAT10
11432 0 35 16064 STA STAT16
11433 0 35 16114 STA 0N0F04
11434 0 35 16127 STA 0N0F10
11435 0 35 16146 STA 0N0F16
11436 0 35 16162 STA 0N0F22
11437 0 35 16213 STA CHNLO4
11440 0 35 16231 STA CHNL10
11441 0 35 16250 STA CHNL16
11442 0 35 16266 STA CHNL22
11443 0 35 16320 STA BFR06
11444 0 35 16362 STA RECO6
11445 0 35 16402 STA RECO8
11446 0 35 16473 STA XMIT04
11447 0 35 16517 STA XMIT08
11450 0 35 16541 STA XMIT12
11451 0 35 16613 STA XMT104
11452 0 35 16633 STA XMT107
11453 0 35 16650 STA XMT109
11454 0 35 16672 STA XMT112
11455 0 35 16744 STA XMT004
11456 0 35 16744 STA XMT007
11457 0 35 17001 STA XMT009
11460 0 35 17023 STA XMT012

```

```

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11461  0 35 17075    STA    0VRN04
11462  0 35 17115    STA    0VRN08
11463  0 35 17117    STA    0VRN09
11464  0 35 17154    STA    0VRN12

```

```

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```

```

*
*    TEST POT/PIN CONNECTIONS
*
11465  0 43 00430    F1000A BRM    OBJECT
11466  2 02*37777    EBM*    037777,2    SELECT CTE=10
11467  0 13 25105    POT     #00120044    POT TO POT LINES
11470  0 71 24513    LDX     #C77772327    5 MS DELAY
11471  0 41 11471    BRX     *
11472  2 02*37777    EBM*    037777,2    SELECT CTE=10
11473  0 33 20132    PIN     PIN#D1    PIN THE PIN LINES
11474  0 43 00434    BRM     END

*
*    TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
11475  0 43 00430    F1001A BRM    OBJECT
11476  2 02*37777    EBM*    037777,2    SELECT CTE=10
11477  0 33 20132    PIN     PIN#D1    PIN THE PIN LINES
11500  0 76 20132    LDA     PIN#D1    SCANNER VALUE TO A
11501  0 20 00000    NOP     0          CD17BAR=CD23BAR
11502  0 20 00000    NOP     0
11503  2 02*37777    EBM*    037777,2    SELECT CTE=10
11504  0 33 20132    PIN     PIN#D1    PIN THE PIN LINES
11505  0 50 20132    SKE     PIN#D1    COMPARE PIN VALUES
11506  0 01 11511    BRU     F1001C    SCANNER CHANGING
11507  0 43 00460    BRM     ERROR    SCANNER NOT CHANGING
11510  0 20 21202    NOP     M0101A
11511  0 43 00434    F1001C BRM     END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 44
*
11512 0 43 00430 F1002A BRM OBJECT
11513 0 71 24506 LDX #0
11514 0 43 17166 BRM JMSG
11515 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11516 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11517 0 43 11751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11520 2 40*36244 SKS# 036244,2 TEST READY, CHANNEL 44
11521 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 44
*
11522 0 43 00430 F1003A BRM OBJECT
11523 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11524 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11525 0 43 16223 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11526 2 40*36244 SKS# 036244,2 TEST CHANNEL STATUS, CHANNEL 44
11527 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 44
*
11530 0 43 00430 F1004A BRM OBJECT
11531 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11532 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11533 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11534 2 40*36244 SKS# 036244,2 TEST CHANNEL STATUS, CHANNEL 44
11535 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 44
*
11536 0 43 00430 F1005A BRM OBJECT
11537 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11540 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11541 0 71 25107 LDX #044 CHANNEL ADDRESS 44
11542 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
11543 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 44
*
11544 0 43 00430 F1006A BRM OBJECT
11545 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11546 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11547 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11550 2 40*37044 SKS# 037044,2 TEST BUFFER EMPTY, CHANNEL 44
11551 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 44
*
11552 0 43 00430 F1007A BRM OBJECT
11553 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11554 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11555 0 71 25110 LDX #077600044 XMIT TO CHANNEL 44, NON-INT. MODE
11556 0 43 16732 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11557 2 40 37044 SKS# 037044J2 TEST BUFFER EMPTY, CHANNEL 44
11560 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 44
*
11561 0 43 00430 F1008A BRM OBJECT
11562 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11563 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11564 0 71 25111 LDX #077640044 XMIT. TO 44, INT.=MODE
11565 0 43 16733 BRM XMTINT TEST TRANSMIT INTERRUPT
11566 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 44
*
11567 0 43 00430 F1009A BRM OBJECT
11570 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11571 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11572 0 71 25111 LDX #077640044 XMIT. TO 44, INT.=MODE
11573 0 43 16733 BRM XMT1S TRANSMIT ALL ONES TO BUFFER
11574 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 44
*
11575 0 43 00430 F1010A BRM OBJECT
11576 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11577 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11600 0 71 25112 LDX #00040044 XMIT. TO 44, INT.=MODE
11601 0 43 16734 BRM XMT0S TRANSMIT ALL ZERO TO BUFFER
11602 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 44
*
11603 0 43 00430 F1011A BRM OBJECT
11604 0 76 25106 LDA #00100044 ACTIVATE CHANNEL 44 PBT WORD
11605 0 75 25105 LDB #00120044 DEACTIVATE CHANNEL 44 PBT WORD
11606 0 71 25113 LDX #045640044 XMIT. TO 44, INT.=MODE
11607 0 43 17035 BRM SVRRUN TEST OVER-RUN BIT
11610 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 45
*
11611 0 43 00430 F1012A BRM OBJECT
11612 0 71 24*21 LDX #1
11613 0 43 17166 BRM JMSG
11614 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 PBT WORD
11615 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 PBT WORD
11616 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11617 2 40*36445 SKS# 036445,2 TEST READY, CHANNEL 45
11620 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 45
*
11621 0 43 00430 F1013A BRM OBJECT
11622 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 PBT WORD
11623 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 PBT WORD
11624 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11625 2 40*36245 SKS# 036245,2 TEST CHANNEL STATUS, CHANNEL 45
11626 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 45
*
11627 0 43 00430 F1014A BRM OBJECT
11630 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 PBT WORD
11631 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 PBT WORD
11632 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11633 2 40*36245 SKS# 036245,2 TEST CHANNEL STATUS, CHANNEL 45
11634 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 45
*
11635 0 43 00430 F1015A BRM OBJECT
11636 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 PBT WORD
11637 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 PBT WORD
11640 0 71 25116 LDX #045 CHANNEL ADDRESS 45
11641 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
11642 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 45
*
11643 0 43 00430 F1016A BRM OBJECT
11644 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 PBT WORD
11645 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 PBT WORD
11646 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11647 2 40*37045 SKS# 037045,2 TEST BUFFER EMPTY, CHANNEL 45
11650 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 45
*
11651 0 43 00430 F1017A BRM OBJECT
11652 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 POT WORD
11653 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 POT WORD
11654 0 71 25117 LDX #077600045 XMIT TO CHANNEL 45, NON-INT, MODE
11655 0 43 00430 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11656 P 40 37045 SKS# 037045,2 TEST BUFFER EMPTY, CHANNEL 45
11657 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 45
*
11660 0 43 00430 F1018A BRM OBJECT
11661 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 POT WORD
11662 0 75 25115 LDR #00120045 DEACTIVATE CHANNEL 45 POT WORD
11663 0 71 25120 LDX #077640045 XMIT. TO 45, INT.=MODE
11664 0 43 00433 BRM XMITINT TEST TRANSMIT INTERRUPT
11665 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 45
*
11666 0 43 00430 F1019A BRM OBJECT
11667 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 POT WORD
11670 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 POT WORD
11671 0 71 25120 LDX #077640045 XMIT. TO 45, INT.=MODE
11672 0 43 14553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
11673 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 45
*
11674 0 43 00430 F1020A BRM OBJECT
11675 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 POT WORD
11676 0 75 25115 LDB #00120045 DEACTIVATE CHANNEL 45 POT WORD
11677 0 71 25121 LDX #00040045 XMIT. TO 45, INT.=MODE
11700 0 43 14704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
11701 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 45
*
11702 0 43 00430 F1021A BRM OBJECT
11703 0 76 25114 LDA #00100045 ACTIVATE CHANNEL 45 POT WORD
11704 0 75 25115 LDR #00120045 DEACTIVATE CHANNEL 45 POT WORD
11705 0 71 25122 LDX #045640045 XMIT. TO 45, INT.=MODE
11706 0 43 17035 BRM BVRRUN TEST OVER-RUN BIT
11707 0 43 00434 BRM END
```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 46
*
11710 0 43 00430 F1022A BRM OBJECT
11711 0 71 24530 LDX #2
11712 0 43 17166 BRM JMSG
11713 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 PBT WORD
11714 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 PBT WORD
11715 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11716 2 40*36446 SKS* 036446,2 TEST READY, CHANNEL 46
11717 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 46
*
11720 0 43 00430 F1023A BRM OBJECT
11721 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 PBT WORD
11722 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 PBT WORD
11723 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11724 2 40*36246 SKS* 036246,2 TEST CHANNEL STATUS, CHANNEL 46
11725 0 43 00434 BRM END

```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 46
*
11726 0 43 00430 F1024A BRM OBJECT
11727 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 PBT WORD
11730 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 PBT WORD
11731 0 43 16070 BRM BNOPFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11732 2 40*36246 SKS* 036246,2 TEST CHANNEL STATUS, CHANNEL 46
11733 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 46
*
11734 0 43 00430 F1025A BRM OBJECT
11735 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 PBT WORD
11736 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 PBT WORD
11737 0 71 25125 LDX #046 CHANNEL ADDRESS 46
11740 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
11741 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 46
*
11742 0 43 00430 F1026A BRM OBJECT
11743 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 PBT WORD
11744 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 PBT WORD
11745 0 43 16274 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11746 2 40*37046 SKS* 037046,2 TEST BUFFER EMPTY, CHANNEL 46
11747 0 43 00434 BRM END

```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 46
*
11750 0 43 00430 F1027A BRM 0BJECT
11751 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 POT WORD
11752 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 POT WORD
11753 0 71 25126 LDX #07760046 XMIT TO CHANNEL 46, NON=INT, MODE
11754 0 43 16432 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
11755 2 40437446 SKS# 037046,2 TEST BUFFER EMPTY, CHANNEL 46
11756 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 46
*
11757 0 43 00430 F1028A BRM 0BJECT
11760 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 POT WORD
11761 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 POT WORD
11762 0 71 25127 LDX #077640046 XMIT, TO 46, INT=MODE
11763 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
11764 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 46
*
11765 0 43 00430 F1029A BRM 0BJECT
11766 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 POT WORD
11767 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 POT WORD
11770 0 71 25127 LDX #077640046 XMIT, TO 46, INT=MODE
11771 0 43 16453 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
11772 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 46
*
11773 0 43 00430 F1030A BRM 0BJECT
11774 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 POT WORD
11775 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 POT WORD
11776 0 71 25130 LDX #00040046 XMIT, TO 46, INT=MODE
11777 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
12000 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 46
*
12001 0 43 00430 F1031A BRM 0BJECT
12002 0 76 25123 LDA #00100046 ACTIVATE CHANNEL 46 POT WORD
12003 0 75 25124 LDB #00120046 DEACTIVATE CHANNEL 46 POT WORD
12004 0 71 25131 LDX #045640046 XMIT, TO 46, INT=MODE
12005 0 43 17435 BRM SVRRUN TEST OVER=RUN BIT
12006 0 43 00434 BRM END
```


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```
*
* TEST READY SKS (BIT 15), CHANNEL 47
*
12017 0 43 0430 F1032A BRM OBJECT
12018 0 71 24537 LDX #3
12019 0 75 17166 BRM JMSG
12012 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12013 0 76 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12014 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12015 2 40 34447 SKS# 036447,2 TEST READY, CHANNEL 47
12016 0 43 0434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 47
*
12017 0 43 0430 F1033A BRM OBJECT
12018 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12021 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12022 0 43 16273 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12023 2 40 34447 SKS# 036247,2 TEST CHANNEL STATUS, CHANNEL 47
12024 0 43 0434 BRM END
```

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```
*
* TEST BN/OFF INTERRUPT, CHANNEL 47
*
12025 0 43 0430 F1034A BRM OBJECT
12026 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12027 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12030 0 43 16270 BRM BNOFFS TEST THE BN/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12031 2 40 34447 SKS# 036247,2 TEST CHANNEL STATUS, CHANNEL 47
12032 0 43 0434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 47
*
12033 0 43 0430 F1035A BRM OBJECT
12034 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12035 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12036 0 71 25134 LDX #047 CHANNEL ADDRESS 03
12037 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
12040 0 43 0434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 47
*
12041 0 43 0430 F1036A BRM OBJECT
12042 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12043 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12044 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12045 2 40 37447 SKS# 037047,2 TEST BUFFER EMPTY, CHANNEL 47
12046 0 43 0434 BRM END
```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 47
*
12047 0 43 00430 F1037A BRM OBJECT
12050 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12051 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12052 0 71 25135 LDX #077600047 XMIT TO CHANNEL 47, NON=INT, MODE
12053 0 43 16392 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12054 2 40 37047 SKS# 037047,2 TEST BUFFER EMPTY, CHANNEL 47
12055 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 47
*
12056 0 43 00430 F1038A BRM OBJECT
12057 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12060 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12061 0 71 25136 LDX #077640047 XMIT TO 47, INT=MODE
12062 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
12063 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 47
*
12064 0 43 00430 F1039A BRM OBJECT
12065 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12066 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12067 0 71 25136 LDX #077640047 XMIT TO 47, INT=MODE
12070 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
12071 0 43 00434 BRM END

```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 47
*
12072 0 43 00430 F1040A BRM OBJECT
12073 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12074 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12075 0 71 25137 LDX #00040047 XMIT TO 47, INT=MODE
12076 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
12077 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 47
*
12100 0 43 00430 F1041A BRM OBJECT
12101 0 76 25132 LDA #00100047 ACTIVATE CHANNEL 47 PBT WORD
12102 0 75 25133 LDB #00120047 DEACTIVATE CHANNEL 47 PBT WORD
12103 0 71 25140 LDX #045640047 XMIT TO 47, INT=MODE
12104 0 43 17095 BRM OVRRUN TEST OVER-RUN BIT
12105 0 43 00434 BRM END
12106 0 43 00456 BRM F00NE

```

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```
12107 0 43 20424 * FUNC11 BRM FUNCTN
12110 0 20 20011 NBP FPT11
12111 0 43 20440 BRM RETURN
12112 0 20 15436 NBP GLICH
12113 0 02 20020 EBT 020020
12114 0 13 24511 PBT #00600000
12115 0 02 20004 EBM 020004
12116 0 76 20160 LDA #11
12117 0 35 16265 STA RDY04
12120 0 35 16202 STA RDY10
12121 0 35 16217 STA RDY16
12122 0 35 16247 STA STAT10
12123 0 35 16264 STA STAT16
12124 0 35 16114 STA 0NBF04
12125 0 35 16127 STA 0NBF10
12126 0 35 16146 STA 0NBF16
12127 0 35 16162 STA 0NBF22
12130 0 35 16213 STA CHNL04
12131 0 35 16231 STA CHNL10
12132 0 35 16250 STA CHNL16
12133 0 35 16266 STA CHNL22
12134 0 35 16320 STA BFR06
12135 0 35 16362 STA RECO6
12136 0 35 16402 STA RECO8
12137 0 35 16473 STA XMIT04
12140 0 35 16517 STA XMIT08
12141 0 35 16541 STA XMIT12
12142 0 35 16613 STA XMT104
12143 0 35 16633 STA XMT107
12144 0 35 16650 STA XMT109
12145 0 35 16672 STA XMT112
12146 0 35 16744 STA XMT004
12147 0 35 16764 STA XMT007
12150 0 35 17001 STA XMT009
12151 0 35 17023 STA XMT012
```

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

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```
12152 0 35 17075 STA 0VRN04
12153 0 35 17115 STA 0VRN08
12154 0 35 17117 STA 0VRN09
12155 0 35 17154 STA 0VRN12
```

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```
*
* TEST PBT/PIN CONNECTIONS
*
12156 0 43 00430 F1100A BRM OBJECT
12157 2 02*37777 EOM* 037777,2 SELECT CTE=10
12160 0 13 25141 PBT #00120050 PBT TO PBT LINES
12161 0 71 24513 LDX #077772327 5 MS DELAY
12162 0 41 12162 BRX *
12163 2 02*37777 EOM* 037777,2 SELECT CTE=10
12164 0 33 20132 PIN PINWD1 PIN THE PIN LINES
12165 0 43 00434 BRM END
```

```
*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
12166 0 43 00430 F1101A BRM OBJECT
12167 2 02*37777 EOM* 037777,2 SELECT CTE=10
12170 0 33 20132 PIN PINWD1 PIN THE PIN LINES
12171 0 76 20132 LDA PINWD1 SCANNER VALUE TO A
12172 0 20 00000 NOP 0 CD17BAR=CD23BAR
12173 0 20 00000 NOP 0
12174 2 02*37777 EOM* 037777,2 SELECT CTE=10
12175 0 33 20132 PIN PINWD1 PIN THE PIN LINES
12176 0 50 20132 SKE PINWD1 COMPARE PIN VALUES
12177 0 01 12202 BRU F1101C SCANNER CHANGING
12200 0 43 00460 BRM ERROR SCANNER NOT CHANGING
12201 0 20 21302 NOP #0101A
12202 0 43 00434 F1101C BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 50
*
12203 0 43 00430 F1102A BRM OBJECT
12204 0 71 24506 LDX #0
12205 0 43 17166 BRM JMSG
12206 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12207 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12210 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12211 2 40*36450 SKS* 036450,2 TEST READY, CHANNEL 50
12212 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 50
*
12213 0 43 00430 F1103A BRM OBJECT
12214 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12215 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12216 0 43 16023 BRM CTSKSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12217 2 40*36250 SKS* 036250,2 TEST CHANNEL STATUS, CHANNEL 50
12220 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 50
*
12221 0 43 00430 F1104A BRM OBJECT
12222 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12223 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12224 0 43 16470 BRM 0B0FF5 TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12225 2 40*36250 SKS# 036250,2 TEST CHANNEL STATUS, CHANNEL 50
12226 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 50
*
12227 0 43 00430 F1105A BRM OBJECT
12230 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12231 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12232 0 71 25143 LDX #050 CHANNEL ADDRESS 50
12233 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
12234 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 50
*
12235 0 43 00430 F1106A BRM OBJECT
12236 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12237 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12240 0 43 16276 BRM BFR5KS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12241 2 40*37050 SKS# 037050,2 TEST BUFFER EMPTY, CHANNEL 50
12242 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 50
*
12243 0 43 00430 F1107A BRM OBJECT
12244 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12245 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12246 0 71 25144 LDX #077600050 XMIT TO CHANNEL 50, NON-INT. MODE
12247 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12250 2 40*37050 SKS# 037050,2 TEST BUFFER EMPTY, CHANNEL 50
12251 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 50
*
12252 0 43 00430 F1108A BRM OBJECT
12253 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12254 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12255 0 71 25145 LDX #077640050 XMIT, TO 50, INT.=MODE
12256 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
12257 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 50
*
12260 0 43 00430 F1109A BRM OBJECT
12261 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12262 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12263 0 71 25145 LDX #077640050 XMIT, TO 50, INT.=MODE
12264 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
12265 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 50
*
12266 0 43 00430 F1110A BRM OBJECT
12267 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12270 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12271 0 71 25146 LDX #00040050 XMIT. TO 50, INT.=MODE
12272 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
12273 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 50
*
12274 0 43 00430 F1111A BRM OBJECT
12275 0 76 25142 LDA #00100050 ACTIVATE CHANNEL 50 PBT WORD
12276 0 75 25141 LDB #00120050 DEACTIVATE CHANNEL 50 PBT WORD
12277 0 71 25147 LDX #045640050 XMIT. TO 50, INT.=MODE
12300 0 43 17035 BRM OVERRUN TEST OVER-RUN BIT
12301 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 51
*
12302 0 43 00430 F1112A BRM OBJECT
12303 0 71 24521 LDX #1
12304 0 43 17166 BRM JMSG
12305 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 PBT WORD
12306 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 PBT WORD
12307 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12310 2 40*36451 SKS# 036451,2 TEST READY, CHANNEL 51
12311 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 51
*
12312 0 43 00430 F1113A BRM OBJECT
12313 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 PBT WORD
12314 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 PBT WORD
12315 0 43 16023 BRM CTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12316 2 40*36251 SKS# 036251,2 TEST CHANNEL STATUS, CHANNEL 51
12317 0 43 00434 BRM END
```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 51
*
12320 0 43 00430 F1114A BRM OBJECT
12321 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 P0T WORD
12322 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 P0T WORD
12323 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12324 2 40*36251 SKS# 036251,2 TEST CHANNEL STATUS, CHANNEL 51
12325 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 51
*
12326 0 43 00430 F1115A BRM OBJECT
12327 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 P0T WORD
12330 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 P0T WORD
12331 0 71 25152 LDX #051 CHANNEL ADDRESS 51
12332 0 43 16177 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
12333 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 51
*
12334 0 43 00430 F1116A BRM OBJECT
12335 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 P0T WORD
12336 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 P0T WORD
12337 0 43 16074 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12340 2 40*37051 SKS# 037051,2 TEST BUFFER EMPTY, CHANNEL 51
12341 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 51
*
12342 0 43 00430 F1117A BRM OBJECT
12343 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 P0T WORD
12344 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 P0T WORD
12345 0 71 25153 LDX #077600051 XMIT TO CHANNEL 51, NON=INT. MODE
12346 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12347 2 40*37051 SKS# 037051,2 TEST BUFFER EMPTY, CHANNEL 51
12350 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 51
*
12351 0 43 00430 F1118A BRM OBJECT
12352 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 P0T WORD
12353 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 P0T WORD
12354 0 71 25154 LDX #077640051 XMIT. TO 51, INT.=MODE
12355 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
12356 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 51
*
12357 0 43 00430 F1119A BRM OBJECT
12360 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 P0T WORD
12361 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 P0T WORD
12362 0 71 25154 LDX #077640051 XMIT. TO 51, INT.=MODE
12363 0 43 16453 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
12364 0 43 00434 BRM END

```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 51
*
12365 0 43 00430 F1120A BRM OBJECT
12366 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 POT WORD
12367 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 POT WORD
12370 0 71 25155 LDX #00040051 XMIT. TO 51, INT.=MODE
12371 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
12372 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 51
*
12373 0 43 00430 F1121A BRM OBJECT
12374 0 76 25150 LDA #00100051 ACTIVATE CHANNEL 51 POT WORD
12375 0 75 25151 LDB #00120051 DEACTIVATE CHANNEL 51 POT WORD
12376 0 71 25154 LDX #045640051 XMIT. TO 51, INT.=MODE
12377 0 43 17035 BRM SVRRUN TEST OVER=RUN BIT
12400 0 43 00434 BRM END

```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 52
*
12401 0 43 00430 F1122A BRM OBJECT
12402 0 71 24530 LDX #2
12403 0 43 17166 BRM JMSG
12404 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 POT WORD
12405 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 POT WORD
12406 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12407 2 40*36452 SKS# 036452,2 TEST READY, CHANNEL 52
12410 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 52
*
12411 0 43 00430 F1123A BRM OBJECT
12412 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 POT WORD
12413 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 POT WORD
12414 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12415 2 40*36252 SKS# 036252,2 TEST CHANNEL STATUS, CHANNEL 52
12416 0 43 00434 BRM END

```


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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 52
*
12417 0 43 00430 F1124A BRM OBJECT
12420 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 P0T WORD
12421 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 P0T WORD
12422 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12423 2 40*36252 SKS# 036252,2 TEST CHANNEL STATUS, CHANNEL 52
12424 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 52
*
12425 0 43 00430 F1125A BRM OBJECT
12426 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 P0T WORD
12427 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 P0T WORD
12430 0 71 25161 LDX #052 CHANNEL ADDRESS 52
12431 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
12432 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 52
*
12433 0 43 00430 F1126A BRM OBJECT
12434 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 P0T WORD
12435 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 P0T WORD
12436 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS A. OBJECT PROGRAM VARIABLE
*
12437 2 40*37052 SKS# 037052,2 TEST BUFFER EMPTY, CHANNEL 52
12440 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 52
*
12441 0 43 00430 F1127A BRM OBJECT
12442 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 P0T WORD
12443 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 P0T WORD
12444 0 71 25162 LDX #07760052 XMIT TO CHANNEL 52, NON-INT. MODE
12445 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12446 2 40*37052 SKS# 037052,2 TEST BUFFER EMPTY, CHANNEL 52
12447 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 52
*
12450 0 43 00430 F1128A BRM OBJECT
12451 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 P0T WORD
12452 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 P0T WORD
12453 0 71 25163 LDX #077640052 XMIT, TO 52, INT.=MODE
12454 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
12455 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 52
*
12456 0 43 00430 F1129A BRM OBJECT
12457 0 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 P0T WORD
12460 0 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 P0T WORD
12461 0 71 25163 LDX #077640052 XMIT, TO 52, INT.=MODE
12462 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
12463 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 52
*
12464 C 43 00430 F1130A BRM OBJECT
12465 C 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 PBT WORD
12466 C 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 PBT WORD
12467 C 71 25164 LDX #00040052 XMIT. TO 52, INT.=MODE
12470 C 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
12471 C 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 52
*
12472 C 43 00430 F1131A BRM OBJECT
12473 C 76 25157 LDA #00100052 ACTIVATE CHANNEL 52 PBT WORD
12474 C 75 25160 LDB #00120052 DEACTIVATE CHANNEL 52 PBT WORD
12475 C 71 25165 LDX #045640052 XMIT. TO 52, INT.=MODE
12476 C 43 17435 BRM SVRRUN TEST OVER-RUN BIT
12477 C 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 53
*
12500 C 43 00430 F1132A BRM OBJECT
12501 C 71 24937 LDX #3
12502 C 43 17166 BRM JMSG
12503 C 76 25166 LDA #00100053 ACTIVATE CHANNEL 53 PBT WORD
12504 C 75 25167 LDB #00120053 DEACTIVATE CHANNEL 53 PBT WORD
12505 C 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12506 Z 40+36483 SKS# 036453,2 TEST READY, CHANNEL 53
12507 C 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 53
*
12510 C 43 00430 F1133A BRM OBJECT
12511 C 76 25166 LDA #00100053 ACTIVATE CHANNEL 53 PBT WORD
12512 C 75 25167 LDB #00120053 DEACTIVATE CHANNEL 53 PBT WORD
12513 C 43 16323 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12514 Z 40+36253 SKS# 036253,2 TEST CHANNEL STATUS, CHANNEL 53
12515 C 43 00434 BRM END
```

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```

*
*   TEST ON/OFF INTERRUPT, CHANNEL 53
*
12516 0 43 00430 F1134A BRM  OBJECT
12517 0 76 25166 LDA  #00100053      ACTIVATE CHANNEL 53 P&T WORD
12520 0 75 25167 LDB  #00120053      DEACTIVATE CHANNEL 53 P&T WORD
12521 0 43 16070 BRM  0N0FFS        TEST THE ON/OFF INTERRUPT
*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12522 2 40 36053 SKS# 036253,2    TEST CHANNEL STATUS, CHANNEL 53
12523 0 43 00434 BRM  END
*
*   TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 53
*
12524 0 43 00430 F1135A BRM  OBJECT
12525 0 76 25166 LDA  #00100053      ACTIVATE CHANNEL 53 P&T WORD
12526 0 75 25167 LDB  #00120053      DEACTIVATE CHANNEL 53 P&T WORD
12527 0 71 25170 LDX  #053           CHANNEL ADDRESS 53
12530 0 43 16172 BRM  CHNLAD        TEST THE CHANNEL ADDRESSING CAPABILITY
12531 0 43 00434 BRM  END
*
*   TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 53
*
12532 0 43 00430 F1136A BRM  OBJECT
12533 0 76 25166 LDA  #00100053      ACTIVATE CHANNEL 53 P&T WORD
12534 0 75 25167 LDB  #00120053      DEACTIVATE CHANNEL 53 P&T WORD
12535 0 43 16276 BRM  BFRSKS        TEST THE BUFFER EMPTY SKS
*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12536 2 40 37053 SKS# 037053,2    TEST BUFFER EMPTY, CHANNEL 53
12537 0 43 00434 BRM  END

```

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```

*
*   TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 53
*
12540 0 43 00430 F1137A BRM  OBJECT
12541 0 76 25166 LDA  #00100053      ACTIVATE CHANNEL 53 P&T WORD
12542 0 75 25167 LDB  #00120053      DEACTIVATE CHANNEL 53 P&T WORD
12543 0 71 25171 LDX  #077600053    XMIT TO CHANNEL 53, NON=INT, MODE
12544 0 43 16332 BRM  RECINT        TEST RECEIVE INTERRUPT
*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12545 2 40 37053 SKS# 037053,2    TEST BUFFER EMPTY, CHANNEL 53
12546 0 43 00434 BRM  END
*
*   TEST BUFFER EMPTY INTERRUPT, CHANNEL 53
*
12547 0 43 00430 F1138A BRM  OBJECT
12550 0 76 25166 LDA  #00100053      ACTIVATE CHANNEL 53 P&T WORD
12551 0 75 25167 LDB  #00120053      DEACTIVATE CHANNEL 53 P&T WORD
12552 0 71 25172 LDX  #077640053    XMIT. TO 53, INT.=MODE
12553 0 43 16433 BRM  XMTINT        TEST TRANSMIT INTERRUPT
12554 0 43 00434 BRM  END
*
*   TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 53
*
12555 0 43 00430 F1139A BRM  OBJECT
12556 0 76 25166 LDA  #00100053      ACTIVATE CHANNEL 53 P&T WORD
12557 0 75 25167 LDB  #00120053      DEACTIVATE CHANNEL 53 P&T WORD
12560 0 71 25172 LDX  #077640053    XMIT. TO 53, INT.=MODE
12561 0 43 16453 BRM  XMT1S        TRANSMIT ALL ONES TO BUFFER
12562 0 43 00434 BRM  END

```

```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 53
*
12563 0 43 00430 P1140A BRM 00000000
12564 0 76 25166 LDA #00100053 ACTIVATE CHANNEL 53 PBT WORD
12565 0 75 25167 LDB #00120053 DEACTIVATE CHANNEL 53 PBT WORD
12566 0 71 25173 LDX #00040053 XMIT. TO 53, INT.=MODE
12567 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
12570 0 43 00434 BRM END

*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 53
*
12571 0 43 00430 P1141A BRM 00000000
12572 0 76 25166 LDA #00100053 ACTIVATE CHANNEL 53 PBT WORD
12573 0 75 25167 LDB #00120053 DEACTIVATE CHANNEL 53 PBT WORD
12574 0 71 25174 LDX #008640053 XMIT. TO 53, INT.=MODE
12575 0 43 17035 BRM 0VRRUN TEST OVER-RUN BIT
12576 0 43 00434 BRM END
12577 0 43 00456 BRM PDONE
    
```

```

*
* FUNC12
*
12600 0 43 00424 FUNC12 BRM FUNCTN
12601 0 20 20024 NBP FBT12
12602 0 43 00440 BRM RETURN
12603 0 20 16436 NBP GLICH
12604 0 02 20020 ESM 020020
12605 0 13 24511 PBT #00600000 DISARM EXTERNAL INTERRUPTS
12606 0 02 20004 ESM 020004 DISABLE INTERRUPTS
12607 0 76 20161 LDA M12 INITIALIZE CHASSIS DIRECTIVE
12610 0 35 15765 STA RDY04
12611 0 35 16002 STA RDY10
12612 0 35 16017 STA RDY16
12613 0 35 16047 STA STAT10
12614 0 35 16064 STA STAT16
12615 0 35 16114 STA 0NBP04
12616 0 35 16127 STA 0NBP10
12617 0 35 16146 STA 0NBP16
12620 0 35 16162 STA 0NBP22
12621 0 35 16213 STA CHNL04
12622 0 35 16231 STA CHNL10
12623 0 35 16250 STA CHNL16
12624 0 35 16266 STA CHNL22
12625 0 35 16320 STA BPRO6
12626 0 35 16362 STA RECO6
12627 0 35 16402 STA RECO8
12630 0 35 16473 STA XMIT04
12631 0 35 16517 STA XMIT08
12632 0 35 16541 STA XMIT12
12633 0 35 16613 STA XMT104
12634 0 35 16633 STA XMT107
12635 0 35 16650 STA XMT109
12636 0 35 16672 STA XMT112
12637 0 35 16744 STA XMT004
12640 0 35 16764 STA XMT007
12641 0 35 17001 STA XMT009
12642 0 35 17023 STA XMT012
    
```

```

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12643  0 35 17075    STA    0VRN04
12644  0 35 17115    STA    0VRN08
12645  0 35 17117    STA    0VRN09
12646  0 35 17154    STA    0VRN12

```

```

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```

```

*
*    TEST POT/PIN CONNECTIONS
*

```

```

12647  0 43 00430    F1200A BRM    OBJECT
12650  2 02*37777    EDM*    037777.2    SELECT CTE=10
12651  0 13 25175    POT     000120054    POT TO POT LINES
12652  0 71 24513    LDX     077772327    5 MS DELAY
12653  0 41 12653    BRX     *
12654  2 02*37777    EDM*    037777.2    SELECT CTE=10
12655  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
12656  0 43 00434    BRM     END

```

```

*
*    TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*

```

```

12657  0 43 00430    F1201A BRM    OBJECT
12660  2 02*37777    EDM*    037777.2    SELECT CTE=10
12661  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
12662  0 76 20132    LDA     PINWD1    SCANNER VALUE TO A
12663  0 20 00000    NOP     0          CD17BAR=CD23BAR
12664  0 20 00000    NOP     0
12665  2 02*37777    EDM*    037777.2    SELECT CTE=10
12666  0 33 20132    PIN     PINWD1    PIN THE PIN LINES
12667  0 50 20132    SKE     PINWD1    COMPARE PIN VALUES
12670  0 01 12673    BRU     F1201C    SCANNER CHANGING
12671  0 43 00460    BRM     ERROR     SCANNER NOT CHANGING
12672  0 20 21302    NOP     M0101A
12673  0 43 00434    F1201C BRM    END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 54
*
12674 0 43 00430 F1202A BRM OBJECT
12675 0 71 24506 LDX #0
12676 0 43 17166 BRM JMSG
12677 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12700 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12701 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12702 2 40*36454 SKS# 036454,2 TEST READY, CHANNEL 54
12703 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 54
*
12704 0 43 00430 F1203A BRM OBJECT
12705 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12706 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12707 0 43 16023 BRM CBTYSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12710 2 40*36254 SKS# 036254,2 TEST CHANNEL STATUS, CHANNEL 54
12711 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 54
*
12712 0 43 00430 F1204A BRM OBJECT
12713 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12714 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12715 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12716 2 40*36254 SKS# 036254,2 TEST CHANNEL STATUS, CHANNEL 54
12717 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 54
*
12720 0 43 00430 F1205A BRM OBJECT
12721 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12722 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12723 0 71 25177 LDX #054 CHANNEL ADDRESS 54
12724 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
12725 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 54
*
12726 0 43 00430 F1206A BRM OBJECT
12727 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12730 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12731 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12732 2 40*37054 SKS# 037054,2 TEST BUFFER EMPTY, CHANNEL 54
12733 0 43 00434 BRM END
```

```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 54
*
12734 0 43 00430 F1207A BRM OBJECT
12735 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12736 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12737 0 71 25200 LDX #077600054 XMIT TO CHANNEL 54, NON=INT, MODE
12740 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
12741 2 40*37054 SKS* 037054,2 TEST BUFFER EMPTY, CHANNEL 54
12742 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 54
*
12743 0 43 00430 F1208A BRM OBJECT
12744 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12745 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12746 0 71 25201 LDX #077640054 XMIT, TO 54, INT.=MODE
12747 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
12750 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 54
*
12751 0 43 00430 F1209A BRM OBJECT
12752 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12753 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12754 0 71 25201 LDX #077640054 XMIT, TO 54, INT.=MODE
12755 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
12756 0 43 00434 BRM END

```

```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 54
*
12757 0 43 00430 F1210A BRM OBJECT
12760 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12761 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12762 0 71 25202 LDX #00040054 XMIT, TO 54, INT.=MODE
12763 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
12764 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 54
*
12765 0 43 00430 F1211A BRM OBJECT
12766 0 76 25176 LDA #00100054 ACTIVATE CHANNEL 54 PBT WORD
12767 0 75 25175 LDB #00120054 DEACTIVATE CHANNEL 54 PBT WORD
12770 0 71 25203 LDX #04B640054 XMIT, TO 54, INT.=MODE
12771 0 43 17035 BRM SVRRUN TEST OVER=RUN BIT
12772 0 43 00434 BRM END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 55
*
12773 0 43 00430 F1212A BRM OBJECT
12774 0 71 24521 LDX #1
12775 0 43 17166 BRM JMSG
12776 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
12777 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13000 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13001 2 40*36455 SKS# 036455,2 TEST READY, CHANNEL 55
13002 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 55
*
13003 0 43 00430 F1213A BRM OBJECT
13004 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13005 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13006 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13007 2 40*36255 SKS# 036255,2 TEST CHANNEL STATUS, CHANNEL 55
13010 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 55
*
13011 0 43 00430 F1214A BRM OBJECT
13012 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13013 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13014 0 43 16070 BRM BNOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13015 2 40*36255 SKS# 036255,2 TEST CHANNEL STATUS, CHANNEL 55
13016 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 55
*
13017 0 43 00430 F1215A BRM OBJECT
13020 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13021 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13022 0 71 25206 LDX #055 CHANNEL ADDRESS 55
13023 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
13024 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 55
*
13025 0 43 00430 F1216A BRM OBJECT
13026 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13027 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13030 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13031 2 40*37055 SKS# 037055,2 TEST BUFFER EMPTY, CHANNEL 55
13032 0 43 00434 BRM END
```


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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 55
*
13033 0 43 00430 P1217A BRM OBJECT
13034 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13035 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13036 0 71 25207 LDX #077640055 XMIT TO CHANNEL 55, NON=INT, MODE
13037 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13040 2 40 37055 SKS# 037055,2 TEST BUFFER EMPTY, CHANNEL 55
13041 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 55
*
13042 0 43 00430 P1218A BRM OBJECT
13043 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13044 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13045 0 71 25210 LDX #077640055 XMIT, TO 55, INT.=MODE
13046 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
13047 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 55
*
13050 0 43 00430 P1219A BRM OBJECT
13051 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13052 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13053 0 71 25210 LDX #077640055 XMIT, TO 55, INT.=MODE
13054 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
13055 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 55
*
13056 0 43 00430 P1220A BRM OBJECT
13057 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13060 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13061 0 71 25211 LDX #00040055 XMIT, TO 55, INT.=MODE
13062 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
13063 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 55
*
13064 0 43 00430 P1221A BRM OBJECT
13065 0 76 25204 LDA #00100055 ACTIVATE CHANNEL 55 PBT WORD
13066 0 75 25205 LDB #00120055 DEACTIVATE CHANNEL 55 PBT WORD
13067 0 71 25212 LDX #045640055 XMIT, TO 55, INT.=MODE
13070 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
13071 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 56
*
13072 0 43 00430 F1222A BRM OBJECT
13073 0 71 24430 LDY #2
13074 0 43 17166 BRM JMSG
13075 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13076 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13077 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13100 2 40*36456 SKS# 036456,2 TEST READY, CHANNEL 56
13101 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 56
*
13102 0 43 00430 F1223A BRM OBJECT
13103 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13104 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13105 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13106 2 40*36256 SKS# 036256,2 TEST CHANNEL STATUS, CHANNEL 56
13107 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 56
*
13110 0 43 00430 F1224A BRM OBJECT
13111 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13112 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13113 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13114 2 40*36256 SKS# 036256,2 TEST CHANNEL STATUS, CHANNEL 56
13115 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 56
*
13116 0 43 00430 F1225A BRM OBJECT
13117 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13120 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13121 0 71 25215 LDY #056 CHANNEL ADDRESS 56
13122 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
13123 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 56
*
13124 0 43 00430 F1226A BRM OBJECT
13125 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13126 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13127 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13130 2 40*37056 SKS# 037056,2 TEST BUFFER EMPTY, CHANNEL 56
13131 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 56
*
13132 0 43 00430 F1227A BRM OBJECT
13133 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13134 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13135 0 71 25216 LDX #077600056 XMIT TO CHANNEL 56, NON=INT, MODE
13136 0 43 16432 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13137 2 40 37056 SKS# 037056,2 TEST BUFFER EMPTY, CHANNEL 56
13140 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 56
*
13141 0 43 00430 F1228A BRM OBJECT
13142 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13143 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13144 0 71 25217 LDX #077640056 XMIT. TO 56, INT.=MODE
13145 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
13146 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 56
*
13147 0 43 00430 F1229A BRM OBJECT
13150 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13151 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13152 0 71 25217 LDX #077640056 XMIT. TO 56, INT.=MODE
13153 0 43 16433 BRM XMTIS TRANSMIT ALL ONES TO BUFFER
13154 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 56
*
13155 0 43 00430 F1230A BRM OBJECT
13156 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13157 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13160 0 71 25220 LDX #00040056 XMIT. TO 56, INT.=MODE
13161 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
13162 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 56
*
13163 0 43 00430 F1231A BRM OBJECT
13164 0 76 25213 LDA #00100056 ACTIVATE CHANNEL 56 PBT WORD
13165 0 75 25214 LDB #00120056 DEACTIVATE CHANNEL 56 PBT WORD
13166 0 71 25221 LDX #045640056 XMIT. TO 56, INT.=MODE
13167 0 43 17035 BRM OVRRUN TEST OVER=RUN BIT
13170 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 57
*
13171 0 43 00430 F1232A BRM OBJECT
13172 0 71 24437 LDX #3
13173 0 43 17166 BRM JMSG
13174 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13175 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13176 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13177 2 40 36457 SKS# 036457,2 TEST READY, CHANNEL 57
13200 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 57
*
13201 0 43 00430 F1233A BRM OBJECT
13202 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13203 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13204 0 43 16223 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13205 2 40 36257 SKS# 036257,2 TEST CHANNEL STATUS, CHANNEL 57
13206 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 57
*
13207 0 43 00430 F1234A BRM OBJECT
13210 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13211 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13212 0 43 16270 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13213 2 40 36257 SKS# 036257,2 TEST CHANNEL STATUS, CHANNEL 57
13214 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 57
*
13215 0 43 00430 F1235A BRM OBJECT
13216 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13217 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13220 0 71 25224 LDX #057 CHANNEL ADDRESS 57
13221 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
13222 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 57
*
13223 0 43 00430 F1236A BRM OBJECT
13224 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13225 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13226 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13227 2 40 37057 SKS# 037057,2 TEST BUFFER EMPTY, CHANNEL 57
13230 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 57
*
13231 0 43 00430 F1237A BRM OBJECT
13232 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13233 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13234 0 71 25225 LDX #077600057 XMIT TO CHANNEL 57, NON-INT. MODE
13235 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13236 2 40 37057 SKS# 037057,2 TEST BUFFER EMPTY, CHANNEL 57
13237 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 57
*
13240 0 43 00430 F1238A BRM OBJECT
13241 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13242 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13243 0 71 25226 LDX #077640057 XMIT, TO 57, INT.=MODE
13244 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
13245 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 57
*
13246 0 43 00430 F1239A BRM OBJECT
13247 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13250 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13251 0 71 25226 LDX #077640057 XMIT, TO 57, INT.=MODE
13252 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
13253 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 57
*
13254 0 43 00430 F1240A BRM OBJECT
13255 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13256 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13257 0 71 25227 LDX #00040057 XMIT, TO 57, INT.=MODE
13260 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
13261 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 57
*
13262 0 43 00430 F1241A BRM OBJECT
13263 0 76 25222 LDA #00100057 ACTIVATE CHANNEL 57 PBT WORD
13264 0 75 25223 LDB #00120057 DEACTIVATE CHANNEL 57 PBT WORD
13265 0 71 25230 LDX #045640057 XMIT, TO 57, INT.=MODE
13266 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
13267 0 43 00434 BRM END
13270 0 43 00456 BRM FDBNE
```

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13271 0 43 00424 *
13272 0 20 20037 FUNC13 BRM FUNCTN
13273 0 43 00440 BRM FBT13
13274 0 20 15636 BRM RETURN
13275 0 02 20020 BRM GLICH
13276 0 13 24511 PBT #00600000
13277 0 02 20004 EBM 020004
13300 0 76 20162 LDA M13
13301 0 35 15765 STA RDY04
13302 0 35 16002 STA RDY10
13303 0 35 16017 STA RDY16
13304 0 35 16047 STA STAT10
13305 0 35 16064 STA STAT16
13306 0 35 16114 STA 0N0F04
13307 0 35 16127 STA 0N0F10
13310 0 35 16146 STA 0N0F16
13311 0 35 16162 STA 0N0F22
13312 0 35 16213 STA CHNL04
13313 0 35 16231 STA CHNL10
13314 0 35 16250 STA CHNL16
13315 0 35 16266 STA CHNL22
13316 0 35 16320 STA BFR06
13317 0 35 16362 STA REC06
13320 0 35 16402 STA REC08
13321 0 35 16473 STA XMIT04
13322 0 35 16517 STA XMIT08
13323 0 35 16541 STA XMIT12
13324 0 35 16613 STA XMT104
13325 0 35 16633 STA XMT107
13326 0 35 16650 STA XMT109
13327 0 35 16672 STA XMT112
13330 0 35 16744 STA XMT004
13331 0 35 16764 STA XMT007
13332 0 35 17001 STA XMT009
13333 0 35 17023 STA XMT012

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

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13334 0 35 17075 STA 0VRN04
13335 0 35 17115 STA 0VRN08
13336 0 35 17117 STA 0VRN09
13337 0 35 17154 STA 0VRN12

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*
* TEST PBT/PIN CONNECTIONS
*

13340 0 43 00430 F1300A BRM OBJECT
13341 2 02*37777 EOM* 037777,2 SELECT CTE=10
13342 0 13 25231 PBT *00120060 PBT TO PBT LINES
13343 0 71 24513 LDX *077772327 5 MS DELAY
13344 0 41 13344 BRX *
13345 2 02*37777 EOM* 037777,2 SELECT CTE=10
13346 0 33 20132 PIN PINWD1 PIN THE PIN LINES
13347 0 43 00434 BRM END

*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*

13350 0 43 00430 F1301A BRM OBJECT
13351 2 02*37777 EOM* 037777,2 SELECT CTE=10
13352 0 33 20132 PIN PINWD1 PIN THE PIN LINES
13353 0 76 20132 LDA PINWD1 SCANNER VALUE TO A
13354 0 20 00000 NOP 0 CD17BAR=CD23BAR
13355 0 20 00000 NOP 0
13356 2 02*37777 EOM* 037777,2 SELECT CTE=10
13357 0 33 20132 PIN PINWD1 PIN THE PIN LINES
13360 0 50 20132 SKE PINWD1 COMPARE PIN VALUES
13361 0 01 13364 BRU F1301C SCANNER CHANGING
13362 0 43 00430 BRM ERROR SCANNER NOT CHANGING
13363 0 20 00000 NOP M0101A
13364 0 43 00434 F1301C BRM END

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*
* TEST READY SKS (BIT 15), CHANNEL 60
*

13365 0 43 00430 F1302A BRM OBJECT
13366 0 71 24506 LDX #0
13367 0 43 17166 BRM JMSG
13370 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13371 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13372 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*

13373 2 40*36460 SKS* 036460,2 TEST READY, CHANNEL 60
13374 0 43 00434 BRM END

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 60
*

13375 0 43 00430 F1303A BRM OBJECT
13376 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13377 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13400 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*

13401 2 40*36260 SKS* 036260,2 TEST CHANNEL STATUS, CHANNEL 60
13402 0 43 00434 BRM END

```

*
* TEST ON/OFF INTERRUPT, CHANNEL 60
*
13403 0 43 00430 *1304A BRM OBJECT
13404 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13405 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13406 0 43 16270 BRM #0NBFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13407 2 40*16260 SKS# 036260,2 TEST CHANNEL STATUS, CHANNEL 60
13410 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 60
*
13411 0 43 00430 *1305A BRM OBJECT
13412 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13413 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13414 0 71 25233 LDX #060 CHANNEL ADDRESS 60
13415 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
13416 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 60
*
13417 0 43 00430 *1306A BRM OBJECT
13420 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13421 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13422 0 43 16274 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13423 2 40*37060 SKS# 037060,2 TEST BUFFER EMPTY, CHANNEL 60
13424 0 43 00434 BRM END

```

```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 60
*
13425 0 43 00430 *1307A BRM OBJECT
13426 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13427 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13430 0 71 25234 LDX #077600060 XMIT TO CHANNEL 60, NON=INT, MODE
13431 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13432 2 40*37060 SKS# 037060,2 TEST BUFFER EMPTY, CHANNEL 60
13433 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 60
*
13434 0 43 00430 *1308A BRM OBJECT
13435 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13436 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13437 0 71 25235 LDX #077640060 XMIT. TO 60, INT.=MODE
13440 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
13441 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 60
*
13442 0 43 00430 *1309A BRM OBJECT
13443 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13444 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13445 0 71 25235 LDX #077640060 XMIT. TO 60, INT.=MODE
13446 0 43 16553 BRM XMT1S TRANSMIT ALL ONES TO BUFFER
13447 0 43 00434 BRM END

```


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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 60
*
13450 0 43 00430 F1310A BRM OBJECT
13451 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13452 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13453 0 71 25236 LDX #00040060 XMIT, TO 60, INT.=MODE
13454 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
13455 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 60
*
13456 0 43 00430 F1311A BRM OBJECT
13457 0 76 25232 LDA #00100060 ACTIVATE CHANNEL 60 PBT WORD
13460 0 75 25231 LDB #00120060 DEACTIVATE CHANNEL 60 PBT WORD
13461 0 71 25237 LDX #04564060 XMIT, TO 60, INT.=MODE
13462 0 43 17235 BRM OVRRUN TEST OVER-RUN BIT
13463 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 61
*
13464 0 43 00430 F1312A BRM OBJECT
13465 0 71 24521 LDX #1
13466 0 43 17166 BRM JMSG
13467 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13470 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13471 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13472 2 40*36461 SKS# 036461,2 TEST READY, CHANNEL 61
13473 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 61
*
13474 0 43 00430 F1313A BRM OBJECT
13475 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13476 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13477 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13500 2 40*36261 SKS# 036261,2 TEST CHANNEL STATUS, CHANNEL 61
13501 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 61
*
13502 0 43 00430 F1314A BRM OBJECT
13503 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13504 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13505 0 43 16270 BRM 0N8FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13506 2 40*36261 SKS# 036261,2 TEST CHANNEL STATUS, CHANNEL 61
13507 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 61
*
13510 0 43 00430 F1315A BRM OBJECT
13511 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13512 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13513 0 71 25242 LDX #061 CHANNEL ADDRESS 61
13514 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
13515 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 61
*
13516 0 43 00430 F1316A BRM OBJECT
13517 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13520 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13521 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13522 2 40*37061 SKS# 037061,2 TEST BUFFER EMPTY, CHANNEL 61
13523 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 61
*
13524 0 43 00430 F1317A BRM OBJECT
13525 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13526 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13527 0 71 25243 LDX #07760061 XMIT TO CHANNEL 61, NON=INT. MODE
13530 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13531 2 40*37061 SKS# 037061,2 TEST BUFFER EMPTY, CHANNEL 61
13532 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 61
*
13533 0 43 00430 F1318A BRM OBJECT
13534 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13535 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13536 0 71 25244 LDX #077640061 XMIT. TO 61, INT.=MODE
13537 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
13540 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 61
*
13541 0 43 00430 F1319A BRM OBJECT
13542 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13543 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13544 0 71 25244 LDX #077640061 XMIT. TO 61, INT.=MODE
13545 0 43 16553 BRM XMT1S TRANSMIT ALL ONES TO BUFFER
13546 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 61
*
13547 0 43 00430 F1320A BRM OBJECT
13550 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13551 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13552 0 71 25245 LDX #00040061 XMIT. TO 61, INT.=MODE
13553 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
13554 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 61
*
13555 0 43 00430 F1321A BRM OBJECT
13556 0 76 25240 LDA #00100061 ACTIVATE CHANNEL 61 PBT WORD
13557 0 75 25241 LDB #00120061 DEACTIVATE CHANNEL 61 PBT WORD
13560 0 71 25246 LDX #045640061 XMIT. TO 61, INT.=MODE
13561 0 43 17135 BRM OVRRUN TEST OVER=RUN BIT
13562 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 62
*
13563 0 43 00430 F1322A BRM OBJECT
13564 0 71 24530 LDX #2
13565 0 43 17166 BRM JMSG
13566 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13567 0 75 25247 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13570 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13571 2 40*36462 SKS# 036462,2 TEST READY, CHANNEL 62
13572 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 62
*
13573 0 43 00430 F1323A BRM OBJECT
13574 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13575 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13576 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13577 2 40*36262 SKS# 036262,2 TEST CHANNEL STATUS, CHANNEL 62
13600 0 43 00434 BRM END
```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 62
*
13601 0 43 00430 F1324A BRM OBJECT
13602 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13603 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13604 0 43 16270 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13605 2 40*36262 SKS# 036262,2 TEST CHANNEL STATUS, CHANNEL 62
13606 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 62
*
13607 0 43 00430 F1325A BRM OBJECT
13610 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13611 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13612 0 71 25251 LDX #062 CHANNEL ADDRESS 62
13613 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
13614 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 62
*
13615 0 43 00430 F1326A BRM OBJECT
13616 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13617 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13620 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13621 2 40*37062 SKS# 037062,2 TEST BUFFER EMPTY, CHANNEL 62
13622 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 62
*
13623 0 43 00430 F1327A BRM OBJECT
13624 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13625 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13626 0 71 25252 LDX #077600062 XMIT TO CHANNEL 62, NON=INT. MODE
13627 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13630 2 40*37062 SKS# 037062,2 TEST BUFFER EMPTY, CHANNEL 62
13631 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 62
*
13632 0 43 00430 F1328A BRM OBJECT
13633 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13634 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13635 0 71 25253 LDX #077640062 XMIT. TO 62, INT.=MODE
13636 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
13637 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 62
*
13640 0 43 00430 F1329A BRM OBJECT
13641 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13642 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13643 0 71 25253 LDX #077640062 XMIT. TO 62, INT.=MODE
13644 0 43 16553 BRM XMTI1S TRANSMIT ALL ONES TO BUFFER
13645 0 43 00434 BRM END

```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 62
*
13646 0 43 00430 F1330A BRM OBJECT
13647 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13650 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13651 0 71 25254 LDX #00040062 XMIT. TO 62, INT.=MODE
13652 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
13653 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 62
*
13654 0 43 00430 F1331A BRM OBJECT
13655 0 76 25247 LDA #00100062 ACTIVATE CHANNEL 62 PBT WORD
13656 0 75 25250 LDB #00120062 DEACTIVATE CHANNEL 62 PBT WORD
13657 0 71 25255 LDX #045640062 XMIT. TO 62, INT.=MODE
13660 0 43 17235 BRM OVERRUN TEST OVER-RUN BIT
13661 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 63
*
13662 0 43 00430 F1332A BRM OBJECT
13663 0 71 24537 LDX #3
13664 0 43 17166 BRM JMSG
13665 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13666 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13667 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13670 2 40*36463 SKS# 036463,2 TEST READY, CHANNEL 63
13671 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 63
*
13672 0 43 00430 F1333A BRM OBJECT
13673 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13674 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13675 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13676 2 40*36263 SKS# 036263,2 TEST CHANNEL STATUS, CHANNEL 63
13677 0 43 00434 BRM END
```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 63
*
13700 0 43 00430 F1334A BRM OBJECT
13701 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13702 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13703 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13704 2 40 36263 SKS# 036263,2 TEST CHANNEL STATUS, CHANNEL 63
13705 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 63
*
13706 0 43 00430 F1335A BRM OBJECT
13707 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13710 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13711 0 71 25260 LDX #063 CHANNEL ADDRESS 63
13712 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
13713 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 63
*
13714 0 43 00430 F1336A BRM OBJECT
13715 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13716 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13717 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13720 2 40 37063 SKS# 037063,2 TEST BUFFER EMPTY, CHANNEL 63
13721 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 63
*
13722 0 43 00430 F1337A BRM OBJECT
13723 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13724 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13725 0 71 25261 LDX #077600063 XMIT TO CHANNEL 63, NON-INT. MODE
13726 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
13727 2 40 37063 SKS# 037063,2 TEST BUFFER EMPTY, CHANNEL 63
13730 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 63
*
13731 0 43 00430 F1338A BRM OBJECT
13732 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13733 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13734 0 71 25262 LDX #077640063 XMIT. TO 63, INT.=MODE
13735 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
13736 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 63
*
13737 0 43 00430 F1339A BRM OBJECT
13740 0 76 25256 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13741 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13742 0 71 25262 LDX #077640063 XMIT. TO 63, INT.=MODE
13743 0 43 16553 BRM XMIT19 TRANSMIT ALL ONES TO BUFFER
13744 0 43 00434 BRM END

```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 63
*
13745 0 43 00430 *1340A BRM OBJECT
13746 0 76 25254 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13747 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13750 0 71 25263 LDX #00040063 XMIT, TO 63, INT.=MODE
13751 0 43 16704 BRM XMIT05 TRANSMIT ALL ZERO TO BUFFER
13752 0 43 00434 BRM END

*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 63
*
13753 0 43 00430 *1341A BRM OBJECT
13754 0 76 25254 LDA #00100063 ACTIVATE CHANNEL 63 PBT WORD
13755 0 75 25257 LDB #00120063 DEACTIVATE CHANNEL 63 PBT WORD
13756 0 71 25263 LDX #045640063 XMIT, TO 63, INT.=MODE
13757 0 43 17035 BRM SVRRUN TEST OVER-RUN BIT
13760 0 43 00434 BRM END
13761 0 43 00456 BRM FDBNE
```

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```
*
* FUNC14 BRM FUNCTN
13762 0 43 00424 *FUNC14 BRM FUNCTN
13763 0 20 20052 NBP FBT14
13764 0 43 00440 BRM RETURN
13765 0 20 15636 NBP GLICH
13766 0 02 20020 EOM 020020
13767 0 13 24511 PBT #00600000 DISARM EXTERNAL INTERRUPTS
13770 0 02 20004 EOM 020004 DISABLE INTERRUPTS
13771 0 76 25163 LDA M14 INITIALIZE CHASSIS DIRECTIVE
13772 0 35 15765 STA RDY04
13773 0 35 16002 STA RDY10
13774 0 35 16017 STA RDY16
13775 0 35 16047 STA STAT10
13776 0 35 16064 STA STAT16
13777 0 35 16114 STA 0N8F04
14000 0 35 16127 STA 0N8F10
14001 0 35 16144 STA 0N8F16
14002 0 35 16162 STA 0N8F22
14003 0 35 16213 STA CHNL04
14004 0 35 16231 STA CHNL10
14005 0 35 16250 STA CHNL16
14006 0 35 16266 STA CHNL22
14007 0 35 16320 STA BPR06
14010 0 35 16362 STA REC06
14011 0 35 16402 STA REC08
14012 0 35 16473 STA XMIT04
14013 0 35 16517 STA XMIT08
14014 0 35 16541 STA XMIT12
14015 0 35 16613 STA XMT104
14016 0 35 16633 STA XMT107
14017 0 35 16650 STA XMT109
14020 0 35 16672 STA XMT112
14021 0 35 16744 STA XMT004
14022 0 35 16764 STA XMT007
14023 0 35 17001 STA XMT009
14024 0 35 17023 STA XMT012
```

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14025	0 35 17075	STA	OVRN04
14026	0 35 17115	STA	OVRN08
14027	0 35 17117	STA	OVRN09
14030	0 35 17154	STA	OVRN12

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*
* TEST POT/PIN CONNECTIONS
*

14031	0 43 00430	F1400A BRM	OBJECT	
14032	2 02 37777	EDM.	037777,2	SELECT CTE=10
14033	0 13 25265	POT	#00120064	POT TO POT LINES
14034	0 71 24513	LDX	#077772327	5 MS DELAY
14035	0 41 14035	BRX	*	
14036	2 02 37777	EDM.	037777,2	SELECT CTE=10
14037	0 33 20132	PIN	PINWD1	PIN THE PIN LINES
14040	0 43 00434	BRM	END	

*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*

14041	0 43 00430	F1401A BRM	OBJECT	
14042	2 02 37777	EDM.	037777,2	SELECT CTE=10
14043	0 33 20132	PIN	PINWD1	PIN THE PIN LINES
14044	0 76 2013P	LDA	PINWD1	SCANNER VALUE TO A
14045	0 20 00000	NBP	0	CD17BAR=CD23BAR
14046	0 20 00000	NBP	0	
14047	2 02 37777	EDM.	037777,2	SELECT CTE=10
14050	0 33 20132	PIN	PINWD1	PIN THE PIN LINES
14051	0 50 20132	SKE	PINWD1	COMPARE PIN VALUES
14052	0 01 14055	BRU	F1401C	SCANNER CHANGING
14053	0 43 00460	BRM	ERROR	SCANNER NOT CHANGING
14054	0 20 21302	NBP	M0101A	
14055	0 43 00434	F1401C BRM	END	

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```
*
* TEST READY SKS (BIT 15), CHANNEL 64
*
14056 0 43 00430 F1402A BRM OBJECT
14057 0 71 24406 LDX #0
14060 0 43 17166 BRM JMSG
14061 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14062 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14063 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14064 2 40*36464 SKS* 036464,22 TEST READY, CHANNEL 64
14065 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 64
*
14066 0 43 00430 F1403A BRM OBJECT
14067 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14070 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14071 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14072 2 40*36264 SKS* 036264,2 TEST CHANNEL STATUS, CHANNEL 64
14073 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 64
*
14074 0 43 00430 F1404A BRM OBJECT
14075 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14076 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14077 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14100 2 40*36264 SKS* 036264,2 TEST CHANNEL STATUS, CHANNEL 64
14101 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 64
*
14102 0 43 00430 F1405A BRM OBJECT
14103 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14104 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14105 0 71 25267 LDX #064 CHANNEL ADDRESS 64
14106 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
14107 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 64
*
14110 0 43 00430 F1406A BRM OBJECT
14111 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14112 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14113 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14114 2 40*37064 SKS* 037064,2 TEST BUFFER EMPTY, CHANNEL 64
14115 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 64
*
14116 0 43 00430 F1407A BRM OBJECT
14117 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14120 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14121 0 71 25270 LDX #077600064 XMIT TO CHANNEL 64, NON-INT. MODE
14122 0 43 14339 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14123 2 40 37264 SKS# 037064,2 TEST BUFFER EMPTY, CHANNEL 64
14124 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 64
*
14125 0 43 00430 F1408A BRM OBJECT
14126 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14127 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14130 0 71 25271 LDX #077640064 XMIT TO 64, INT.-MODE
14131 0 43 14433 BRM XMITINT TEST TRANSMIT INTERRUPT
14132 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 64
*
14133 0 43 00430 F1409A BRM OBJECT
14134 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14135 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14136 0 71 25271 LDX #077640064 XMIT TO 64, INT.-MODE
14137 0 43 14553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
14140 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 64
*
14141 0 43 00430 F1410A BRM OBJECT
14142 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14143 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14144 0 71 25272 LDX #00040064 XMIT TO 64, INT.-MODE
14145 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
14146 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 64
*
14147 0 43 00430 F1411A BRM OBJECT
14150 0 76 25266 LDA #00100064 ACTIVATE CHANNEL 64 PBT WORD
14151 0 75 25265 LDB #00120064 DEACTIVATE CHANNEL 64 PBT WORD
14152 0 71 25273 LDX #045640064 XMIT TO 64, INT.-MODE
14153 0 43 17235 BRM OVRRUN TEST OVER-RUN BIT
14154 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 65
*
14155 0 43 00430 F1412A BRM OBJECT
14156 0 71 24521 LDX #1
14157 0 43 17166 BRM JMSG
14160 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14161 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14162 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14163 2 40*36465 SKS# 036465,2 TEST READY, CHANNEL 65
14164 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 65
*
14165 0 43 00430 F1413A BRM OBJECT
14166 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14167 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14170 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14171 2 40*36265 SKS# 036265,2 TEST CHANNEL STATUS, CHANNEL 65
14172 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 65
*
14173 0 43 00430 F1414A BRM OBJECT
14174 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14175 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14176 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14177 2 40*36265 SKS# 036265,2 TEST CHANNEL STATUS, CHANNEL 65
14200 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 65
*
14201 0 43 00430 F1415A BRM OBJECT
14202 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14203 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14204 0 71 25276 LDX #065 CHANNEL ADDRESS 65
14205 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
14206 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 65
*
14207 0 43 00430 F1416A BRM OBJECT
14210 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14211 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14212 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14213 2 40*37065 SKS# 037065,2 TEST BUFFER EMPTY, CHANNEL 65
14214 0 43 00434 BRM END
```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 65
*
14215 0 43 00430 F1417A BRM OBJECT
14216 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14217 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14220 0 71 25277 LDX #077600065 XMIT TO CHANNEL 65, NON=INT, MODE
14221 0 43 1633P BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14222 2 40*37065 SKS# 037065,2 TEST BUFFER EMPTY, CHANNEL 65
14223 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 65
*
14224 0 43 00430 F1418A BRM OBJECT
14225 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14226 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14227 0 71 25300 LDX #077640065 XMIT, TO 65, INT=MODE
14230 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
14231 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 65
*
14232 0 43 00430 F1419A BRM OBJECT
14233 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14234 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14235 0 71 25300 LDX #077640065 XMIT, TO 65, INT=MODE
14236 0 43 16553 BRM XMIT18 TRANSMIT ALL ONES TO BUFFER
14237 0 43 00434 BRM END

```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 65
*
14240 0 43 00430 F1420A BRM OBJECT
14241 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14242 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14243 0 71 25301 LDX #00040065 XMIT, TO 65, INT=MODE
14244 0 43 16704 BRM XMIT08 TRANSMIT ALL ZERO TO BUFFER
14245 0 43 00434 BRM END
*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 65
*
14246 0 43 00430 F1421A BRM OBJECT
14247 0 76 25274 LDA #00100065 ACTIVATE CHANNEL 65 PBT WORD
14250 0 75 25275 LDB #00120065 DEACTIVATE CHANNEL 65 PBT WORD
14251 0 71 25302 LDX #045640065 XMIT, TO 65, INT=MODE
14252 0 43 17035 BRM SVRRUN TEST OVER=RUN BIT
14253 0 43 00434 BRM END

```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 66
*
14254 0 43 00430 F1422A BRM OBJECT
14255 0 71 24530 LDX #2
14256 0 43 17166 BRM JMSG
14257 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14260 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14261 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14262 2 40*37466 SKS# 036466,2 TEST READY, CHANNEL 66
14263 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 66
*
14264 0 43 00430 F1423A BRM OBJECT
14265 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14266 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14267 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14270 2 40*36266 SKS# 036266,2 TEST CHANNEL STATUS, CHANNEL 66
14271 0 43 00434 BRM END

```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 66
*
14272 0 43 00430 F1424A BRM OBJECT
14273 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14274 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14275 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14276 2 40*36266 SKS# 036266,2 TEST CHANNEL STATUS, CHANNEL 66
14277 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 66
*
14300 0 43 00430 F1425A BRM OBJECT
14301 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14302 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14303 0 71 25305 LDX #066 CHANNEL ADDRESS 66
14304 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
14305 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 66
*
14306 0 43 00430 F1426A BRM OBJECT
14307 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14310 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14311 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14312 2 40*37066 SKS# 037066,2 TEST BUFFER EMPTY, CHANNEL 66
14313 0 43 00434 BRM END

```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 66
*
14314 0 43 00430 F1427A BRM OBJECT
14315 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14316 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14317 0 71 25306 LDX #07760066 XMIT TO CHANNEL 66, NON-INT. MODE
14320 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14321 2 40 37066 SKS # 037066,2 TEST BUFFER EMPTY, CHANNEL 66
14322 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 66
*
14323 0 43 00430 F1428A BRM OBJECT
14324 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14325 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14326 0 71 25307 LDX #077640066 XMIT. TO 66, INT.=MODE
14327 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
14330 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 66
*
14331 0 43 00430 F1429A BRM OBJECT
14332 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14333 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14334 0 71 25307 LDX #077640066 XMIT. TO 66, INT.=MODE
14335 0 43 16453 BRM XMIT16 TRANSMIT ALL ONES TO BUFFER
14336 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 66
*
14337 0 43 00430 F1430A BRM OBJECT
14340 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14341 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14342 0 71 25310 LDX #00040066 XMIT. TO 66, INT.=MODE
14343 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
14344 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 66
*
14345 0 43 00430 F1431A BRM OBJECT
14346 0 76 25303 LDA #00100066 ACTIVATE CHANNEL 66 PBT WORD
14347 0 75 25304 LDB #00120066 DEACTIVATE CHANNEL 66 PBT WORD
14350 0 71 25311 LDX #045640066 XMIT. TO 66, INT.=MODE
14351 0 43 17335 BRM OVRRUN TEST OVER-RUN BIT
14352 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 67
*
14353 0 43 00430 F1432A BRM OBJECT
14354 0 71 24537 LDX #3
14355 0 43 17166 BRM JMSG
14356 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14357 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14360 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14361 2 40*36467 SKS# 036467,2 TEST READY, CHANNEL 67
14362 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 67
*
14363 0 43 00430 F1433A BRM OBJECT
14364 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14365 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14366 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14367 2 40*36267 SKS# 036267,2 TEST CHANNEL STATUS, CHANNEL 67
14370 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 67
*
14371 0 43 00430 F1434A BRM OBJECT
14372 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14373 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14374 0 43 16720 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14375 2 40*36267 SKS# 036267,2 TEST CHANNEL STATUS, CHANNEL 67
14376 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 67
*
14377 0 43 00430 F1435A BRM OBJECT
14400 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14401 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14402 0 71 25314 LDX #067 CHANNEL ADDRESS 67
14403 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
14404 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 67
*
14405 0 43 00430 F1436A BRM OBJECT
14406 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14407 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14410 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14411 2 40*37067 SKS# 037067,2 TEST BUFFER EMPTY, CHANNEL 67
14412 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 67
*
14413 0 43 00430 F1437A BRM OBJECT
14414 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14415 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14416 0 71 25315 LDX #077600067 XMIT TO CHANNEL 67, NON-INT. MODE
14417 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14420 2 40 37067 SKS# 037067,2 TEST BUFFER EMPTY, CHANNEL 67
14421 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 67
*
14422 0 43 00430 F1438A BRM OBJECT
14423 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14424 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14425 0 71 25316 LDX #077640067 XMIT. TO 67, INT.=MODE
14426 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
14427 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 67
*
14430 0 43 00430 F1439A BRM OBJECT
14431 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14432 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14433 0 71 25316 LDX #077640067 XMIT. TO 67, INT.=MODE
14434 0 43 16453 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
14435 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 67
*
14436 0 43 00430 F1440A BRM OBJECT
14437 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14440 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14441 0 71 25317 LDX #00040067 XMIT. TO 67, INT.=MODE
14442 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
14443 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 67
*
14444 0 43 00430 F1441A BRM OBJECT
14445 0 76 25312 LDA #00100067 ACTIVATE CHANNEL 67 PBT WORD
14446 0 75 25313 LDB #00120067 DEACTIVATE CHANNEL 67 PBT WORD
14447 0 71 25320 LDX #045640067 XMIT. TO 67, INT.=MODE
14450 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
14451 0 43 00434 BRM END
14452 0 43 00456 BRM FDBNE
```


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```
14453 0 43 00424 *  
14454 0 20 20065 FUNC15 BRM FUNCTN  
14455 0 43 00440 BRM RETURN  
14456 0 20 15636 BRM GLICH  
14457 0 02 20020 EBM 020020  
14460 0 13 24511 PBT *00600000  
14461 0 02 20004 EBM 020004  
14462 0 76 20164 LDA M15  
14463 0 35 15765 STA RDY04  
14464 0 35 16002 STA RDY10  
14465 0 35 16017 STA RDY16  
14466 0 35 16047 STA STAT10  
14467 0 35 16064 STA STAT16  
14470 0 35 16114 STA 0N0F04  
14471 0 35 16127 STA 0N0F10  
14472 0 35 16146 STA 0N0F16  
14473 0 35 16162 STA 0N0F22  
14474 0 35 16213 STA CHNL04  
14475 0 35 16231 STA CHNL10  
14476 0 35 16250 STA CHNL16  
14477 0 35 16266 STA CHNL22  
14500 0 35 16320 STA BFR06  
14501 0 35 16362 STA REC06  
14502 0 35 16402 STA REC08  
14503 0 35 16473 STA XMIT04  
14504 0 35 16517 STA XMIT08  
14505 0 35 16541 STA XMIT12  
14506 0 35 16613 STA XMT104  
14507 0 35 16633 STA XMT107  
14510 0 35 16650 STA XMT109  
14511 0 35 16672 STA XMT112  
14512 0 35 16744 STA XMT004  
14513 0 35 16764 STA XMT007  
14514 0 35 17001 STA XMT009  
14515 0 35 17023 STA XMT012
```

DISARM EXTERNAL INTERRUPTS
DISABLE INTERRUPTS
INITIALIZE CHASSIS DIRECTIVE

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```
14516 0 35 17075 STA 0VRN04  
14517 0 35 17115 STA 0VRN08  
14520 0 35 17117 STA 0VRN09  
14521 0 35 17154 STA 0VRN12
```

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*
* TEST PBT/PIN CONNECTIONS
*

14522 0 43 00430 F1500A BRM OBJECT
14523 2 02*37777 EDM* 037777,2 SELECT CTE=10
14524 0 13 25421 PBT #00120070 PBT TO PBT LINES
14525 0 71 24513 LDX #077772327 5 MS DELAY
14526 0 41 14526 BRX *
14527 2 02*37777 EDM* 037777,2 SELECT CTE=10
14530 0 33 20132 PIN PINWD1 PIN THE PIN LINES
14531 0 43 00434 BRM END

*
* TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*

14532 0 43 00430 F1501A BRM OBJECT
14533 2 02*37777 EDM* 037777,2 SELECT CTE=10
14534 0 33 20132 PIN PINWD1 PIN THE PIN LINES
14535 0 76 20132 LDA PINWD1 SCANNER VALUE TO A
14536 0 20 00000 NOP 0 CD17BAR=CD23BAR
14537 0 20 00000 NOP 0
14540 2 02*37777 EDM* 037777,2 SELECT CTE=10
14541 0 33 20132 PIN PINWD1 PIN THE PIN LINES
14542 0 50 20132 SKE PINWD1 COMPARE PIN VALUES
14543 0 01 14546 BRU F1501C SCANNER CHANGING
14544 0 43 00460 BRM ERROR SCANNER NOT CHANGING
14545 0 20 21702 NOP M0101A
14546 0 43 00434 F1501C BRM END

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*
* TEST READY SKS (BIT 15), CHANNEL 70
*

14547 0 43 00430 F1502A BRM OBJECT
14550 0 71 24506 LDX #0
14551 0 43 17166 BRM JMSG
14552 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14553 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14554 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*

14555 2 40*36470 SKS* 036470,22 TEST READY, CHANNEL 70
14556 0 43 00434 BRM END

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 70
*

14557 0 43 00430 F1503A BRM OBJECT
14560 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14561 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14562 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*

14563 2 40*36270 SKS* 036270,2 TEST CHANNEL STATUS, CHANNEL 70
14564 0 43 00434 BRM END

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 70
*
14565 0 43 00430 F1504A BRM OBJECT
14566 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14567 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14570 0 43 16270 BRM 0NBFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14571 2 40*36270 SKS# 036270,2 TEST CHANNEL STATUS, CHANNEL 70
14572 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 70
*
14573 0 43 00430 F1505A BRM OBJECT
14574 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14575 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14576 0 71 25323 LDX #070 CHANNEL ADDRESS 70
14577 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
14600 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 70
*
14601 0 43 00430 F1506A BRM OBJECT
14602 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14603 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14604 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14605 2 40*37070 SKS# 037070,2 TEST BUFFER EMPTY, CHANNEL 70
14606 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 70
*
14607 0 43 00430 F1507A BRM OBJECT
14610 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14611 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14612 0 71 25324 LDX #07760070 XMIT TO CHANNEL 70, NBN=INT, MODE
14613 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14614 2 40*37070 SKS# 037070,2 TEST BUFFER EMPTY, CHANNEL 70
14615 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 70
*
14616 0 43 00430 F1508A BRM OBJECT
14617 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14620 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14621 0 71 25325 LDX #077640070 XMIT, TO 70, INT=MODE
14622 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
14623 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 70
*
14624 0 43 00430 F1509A BRM OBJECT
14625 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14626 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14627 0 71 25325 LDX #077640070 XMIT, TO 70, INT=MODE
14630 0 43 16553 BRM XMTI1S TRANSMIT ALL ONES TO BUFFER
14631 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 70
*
14632 0 43 00430 F1510A BRM OBJECT
14633 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14634 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14635 0 71 25326 LDX #00040070 XMIT, TO 70, INT.=MODE
14636 0 43 16704 BRM XMIT08 TRANSMIT ALL ZERO TO BUFFER
14637 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 70
*
14640 0 43 00430 F1511A BRM OBJECT
14641 0 76 25322 LDA #00100070 ACTIVATE CHANNEL 70 PBT WORD
14642 0 75 25321 LDB #00120070 DEACTIVATE CHANNEL 70 PBT WORD
14643 0 71 25327 LDX #048640070 XMIT, TO 70, INT.=MODE
14644 0 43 17435 BRM SVRRUN TEST OVER-RUN BIT
14645 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 71
*
14646 0 43 00430 F1512A BRM OBJECT
14647 0 71 24521 LDX #1
14650 0 43 17166 BRM JMSG
14651 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14652 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14653 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14654 2 40*36471 SKS# 036471,2 TEST READY, CHANNEL 71
14655 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 71
*
14656 0 43 00430 F1513A BRM OBJECT
14657 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14660 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14661 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14662 2 40*36271 SKS# 036271,2 TEST CHANNEL STATUS, CHANNEL 71
14663 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 71
*
14664 0 43 00430 F1514A BRM OBJECT
14665 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14666 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14667 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14670 2 40*36271 SKS# 036271,2 TEST CHANNEL STATUS, CHANNEL 71
14671 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 71
*
14672 0 43 00430 F1515A BRM OBJECT
14673 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14674 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14675 0 71 25332 LDX #071 CHANNEL ADDRESS 71
14676 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
14677 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 71
*
14700 0 43 00430 F1516A BRM OBJECT
14701 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14702 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14703 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14704 2 40*37071 SKS# 037071,2 TEST BUFFER EMPTY, CHANNEL 71
14705 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 71
*
14706 0 43 00430 F1517A BRM OBJECT
14707 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14710 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14711 0 71 25333 LDX #077600071 XMIT TO CHANNEL 71, NON=INT, MODE
14712 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14713 2 40*37071 SKS# 037071,2 TEST BUFFER EMPTY, CHANNEL 71
14714 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 71
*
14715 0 43 00430 F1518A BRM OBJECT
14716 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14717 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14720 0 71 25334 LDX #077640071 XMIT, TO 71, INT=MODE
14721 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
14722 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 71
*
14723 0 43 00430 F1519A BRM OBJECT
14724 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14725 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14726 0 71 25334 LDX #077640071 XMIT, TO 71, INT=MODE
14727 0 43 16553 BRM XMTI1S TRANSMIT ALL ONES TO BUFFER
14730 0 43 00434 BRM END
```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 71
*
14731 0 43 00430 F1820A BRM OBJECT
14732 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14733 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14734 0 71 25335 LDX #00040071 XMIT, TO 71, INT.=MODE
14735 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
14736 0 43 00434 BRM END
*
* TEST OVR=RUN BIT (BIT 8), CHANNEL 71
*
14737 0 43 00430 F1821A BRM OBJECT
14740 0 76 25330 LDA #00100071 ACTIVATE CHANNEL 71 PBT WORD
14741 0 75 25331 LDB #00120071 DEACTIVATE CHANNEL 71 PBT WORD
14742 0 71 25336 LDX #048640071 XMIT, TO 71, INT.=MODE
14743 0 43 17035 BRM OVR=RUN TEST OVR=RUN BIT
14744 0 43 00434 BRM END

```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 72
*
14745 0 43 00430 F1822A BRM OBJECT
14746 0 71 24530 LDX #2
14747 0 43 17166 BRM JM80
14750 0 76 25337 LDA #00100072 ACTIVATE CHANNEL 72 PBT WORD
14751 0 75 25340 LDB #00120072 DEACTIVATE CHANNEL 72 PBT WORD
14752 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14753 2 40*36472 SKS# 036472,2 TEST READY, CHANNEL 72
14754 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 72
*
14755 0 43 00430 F1823A BRM OBJECT
14756 0 76 25337 LDA #00100072 ACTIVATE CHANNEL 72 PBT WORD
14757 0 75 25340 LDB #00120072 DEACTIVATE CHANNEL 72 PBT WORD
14760 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14761 2 40*36472 SKS# 036272,2 TEST CHANNEL STATUS, CHANNEL 72
14762 0 43 00434 BRM END

```

```

*
*   TEST ON/OFF INTERRUPT, CHANNEL 72
*
14763 0 43 00430 F1524A BRM   OBJECT
14764 0 76 25337 LDA   #00100072   ACTIVATE CHANNEL 72 PBT WORD
14765 0 75 25340 LDB   #00120072   DEACTIVATE CHANNEL 72 PBT WORD
14766 0 43 14070 BRM   ONOFFS      TEST THE ON/OFF INTERRUPT
*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
14767 2 40*36272 SKS#  036272,2   TEST CHANNEL STATUS, CHANNEL 72
14770 0 43 00434 BRM   END
*
*   TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 72
*
14771 0 43 00430 F1525A BRM   OBJECT
14772 0 76 25337 LDA   #00100072   ACTIVATE CHANNEL 72 PBT WORD
14773 0 75 25340 LDB   #00120072   DEACTIVATE CHANNEL 72 PBT WORD
14774 0 71 25341 LDX   #072        CHANNEL ADDRESS 72
14775 0 43 16172 BRM   CHNLAD     TEST THE CHANNEL ADDRESSING CAPABILITY
14776 0 43 00434 BRM   END
*
*   TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 72
*
14777 0 43 00430 F1526A BRM   OBJECT
15000 0 76 25337 LDA   #00100072   ACTIVATE CHANNEL 72 PBT WORD
15001 0 75 25340 LDB   #00120072   DEACTIVATE CHANNEL 72 PBT WORD
15002 0 43 16276 BRM   BFRSKS     TEST THE BUFFER EMPTY SKS
*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15003 2 40*37072 SKS#  037072,2   TEST BUFFER EMPTY, CHANNEL 72
15004 0 43 00434 BRM   END

```

```

*
*   TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 72
*
15005 0 43 00430 F1527A BRM   OBJECT
15006 0 76 25337 LDA   #00100072   ACTIVATE CHANNEL 72 PBT WORD
15007 0 75 25340 LDB   #00120072   DEACTIVATE CHANNEL 72 PBT WORD
15010 0 71 25342 LDX   #077600072 XMIT TO CHANNEL 72, NON-INT. MODE
15011 0 43 16332 BRM   RECINT     TEST RECEIVE INTERRUPT
*
*   THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15012 2 40*37072 SKS#  037072,2   TEST BUFFER EMPTY, CHANNEL 72
15013 0 43 00434 BRM   END
*
*   TEST BUFFER EMPTY INTERRUPT, CHANNEL 72
*
15014 0 43 00430 F1528A BRM   OBJECT
15015 0 76 25337 LDA   #00100072   ACTIVATE CHANNEL 72 PBT WORD
15016 0 75 25340 LDB   #00120072   DEACTIVATE CHANNEL 72 PBT WORD
15017 0 71 25343 LDX   #077640072 XMIT, TO 72, INT.=MODE
15020 0 43 16433 BRM   XMTINT     TEST TRANSMIT INTERRUPT
15021 0 43 00434 BRM   END
*
*   TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 72
*
15022 0 43 00430 F1529A BRM   OBJECT
15023 0 76 25337 LDA   #00100072   ACTIVATE CHANNEL 72 PBT WORD
15024 0 75 25340 LDB   #00120072   DEACTIVATE CHANNEL 72 PBT WORD
15025 0 71 25343 LDX   #077640072 XMIT, TO 16, INT.=MODE
15026 0 43 16453 BRM   XMT16     TRANSMIT ALL ONES TO BUFFER
15027 0 43 00434 BRM   END

```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 72
*
15030 0 43 00430 F1530A BRM OBJECT
15031 0 76 25337 LDA #00100072 ACTIVATE CHANNEL 72 PBT WORD
15032 0 75 25340 LDB #00120072 DEACTIVATE CHANNEL 72 PBT WORD
15033 0 71 25344 LDX #00040072 XMIT. TO 72, INT.=MODE
15034 0 43 16704 BRM XMITOS TRANSMIT ALL ZERO TO BUFFER
15035 0 43 00434 BRM END

```

```

*
* TEST OVER=RUN BIT (BIT 8), CHANNEL 72
*
15036 0 43 00430 F1531A BRM OBJECT
15037 0 76 25337 LDA #00100072 ACTIVATE CHANNEL 72 PBT WORD
15040 0 75 25340 LDB #00120072 DEACTIVATE CHANNEL 72 PBT WORD
15041 0 71 25345 LDX #045640072 XMIT. TO 72, INT.=MODE
15042 0 43 17335 BRM OVRRUN TEST OVER=RUN BIT
15043 0 43 00434 BRM END

```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 73
*
15044 0 43 00430 F1532A BRM OBJECT
15045 0 71 24537 LDX #3
15046 0 43 17166 BRM JMSQ
15047 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15050 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15051 0 43 15751 BRM ROYSKS TEST THE READY SKS (BIT 15)

```

```

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15052 2 40+36473 SKS# 036473,2 TEST READY, CHANNEL 73
15053 0 43 00434 BRM END

```

```

*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 73
*
15054 0 43 00430 F1533A BRM OBJECT
15055 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15056 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15057 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)

```

```

*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15060 2 40+36273 SKS# 036273,2 TEST CHANNEL STATUS, CHANNEL 73
15061 0 43 00434 BRM END

```


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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 73
*
15062 0 43 00430 F1534A BRM OBJECT
15063 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15064 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15065 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15066 2 40*36273 SKS# 036273,2 TEST CHANNEL STATUS, CHANNEL 73
15067 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 73
*
15070 0 43 00430 F1535A BRM OBJECT
15071 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15072 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15073 0 71 25350 LDX #073 CHANNEL ADDRESS 73
15074 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
15075 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 73
*
15076 0 43 00430 F1536A BRM OBJECT
15077 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15100 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15101 0 43 16276 BRM BFRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15102 2 40*37073 SKS# 037073,2 TEST BUFFER EMPTY, CHANNEL 73
15103 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 73
*
15104 0 43 00430 F1537A BRM OBJECT
15105 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15106 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15107 0 71 25351 LDX #07760073 XMIT TO CHANNEL 73, NON=INT. MODE
15110 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15111 2 40*37073 SKS# 037073,2 TEST BUFFER EMPTY, CHANNEL 73
15112 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 73
*
15113 0 43 00430 F1538A BRM OBJECT
15114 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15115 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15116 0 71 25352 LDX #07760073 XMIT TO 73, INT.=MODE
15117 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
15120 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 73
*
15121 0 43 00430 F1539A BRM OBJECT
15122 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15123 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15124 0 71 25352 LDX #07760073 XMIT TO 73, INT.=MODE
15125 0 43 16553 BRM XMT1S TRANSMIT ALL ONES TO BUFFER
15126 0 43 00434 BRM END

```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 73
*
15127 0 43 00430 F1540A BRM OBJECT
15130 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15131 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15132 0 71 25353 LDX #00040073 XMIT. TO 73, INT.=MODE
15133 0 43 16704 BRM XMIT08 TRANSMIT ALL ZERO TO BUFFER
15134 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 73
*
15135 0 43 00430 F1541A BRM OBJECT
15136 0 76 25346 LDA #00100073 ACTIVATE CHANNEL 73 PBT WORD
15137 0 75 25347 LDB #00120073 DEACTIVATE CHANNEL 73 PBT WORD
15140 0 71 25354 LDX #048640073 XMIT. TO 73, INT.=MODE
15141 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
15142 0 43 00434 BRM END
15143 0 43 00456 BRM FDBNE
```

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```
*
* FUNC16 BRM FUNCTN
15144 0 43 00424 FUNC16 BRM FUNCTN
15145 0 20 20100 NOP FRT16
15146 0 43 00440 BRM RETURN
15147 0 20 15636 NOP GLICH
15150 0 02 20020 EBM 020020
15151 0 13 24511 PBT #00600000 DISARM EXTERNAL INTERRUPTS
15152 0 02 20004 EBM 020004 DISABLE INTERRUPTS
15153 0 76 20165 LDA #16 INITIALIZE CHASSIS DIRECTIVE
15154 0 35 16765 STA RDY04
15155 0 35 16002 STA RDY10
15156 0 35 16017 STA RDY16
15157 0 35 16047 STA STAT10
15160 0 35 16064 STA STAT16
15161 0 35 16114 STA 0NBF08
15162 0 35 16127 STA 0NBF10
15163 0 35 16146 STA 0NBF16
15164 0 35 16162 STA 0NBF22
15165 0 35 16213 STA CHNL04
15166 0 35 16231 STA CHNL10
15167 0 35 16250 STA CHNL16
15170 0 35 16266 STA CHNL22
15171 0 35 16320 STA BFR06
15172 0 35 16362 STA REC06
15173 0 35 16402 STA REC08
15174 0 35 16473 STA XMIT04
15175 0 35 16517 STA XMIT08
15176 0 35 16541 STA XMIT12
15177 0 35 16613 STA XMT104
15200 0 35 16633 STA XMT107
15201 0 35 16650 STA XMT109
15202 0 35 16672 STA XMT112
15203 0 35 16744 STA XMT004
15204 0 35 16764 STA XMT007
15205 0 35 17001 STA XMT009
15206 0 35 17023 STA XMT012
```

```

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15207  0 35 17775    STA    0VRN04
15210  0 35 17115    STA    0VRN08
15211  0 35 17117    STA    0VRN09
15212  0 35 17154    STA    0VRN12

```

```

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```

```

*
*   TEST POT/PIN CONNECTIONS
*
F1600A BRM    OBJECT
15213  0 43 00430    EOM*   037777,2    SELECT CTE=10
15214  2 02*37777    POT    #00120074      POT TO POT LINES
15215  0 13 25355    LDX    #077772327  5 MS DELAY
15216  0 71 24513    BRX    *
15217  0 41 15217    EOM*   037777,2    SELECT CTE=10
15220  2 02*37777    PIN    PIN#D1      PIN THE PIN LINES
15221  0 33 20132    BRM    END
15222  0 43 00434

*
*   TEST SCANNER, CD=INVERTERS (CD17BAR=CD23BAR)
*
F1601A BRM    OBJECT
15223  0 43 00430    EOM*   037777,2    SELECT CTE=10
15224  2 02*37777    PIN    PIN#D1      PIN THE PIN LINES
15225  0 33 20132    LDA    PIN#D1      SCANNER VALUE TO A
15226  0 76 20132    NOP    0            CD17BAR=CD23BAR
15227  0 20 00200    NOP    0
15230  0 20 00000    NOP    0
15231  2 02*37777    EOM*   037777,2    SELECT CTE=10
15232  0 33 20132    PIN    PIN#D1      PIN THE PIN LINES
15233  0 50 20132    SKE    PIN#D1      COMPARE PIN VALUES
15234  0 01 15237    BRU    F1601C      SCANNER CHANGING
15235  0 43 00460    BRM    ERROR       SCANNER NOT CHANGING
15236  0 20 21302    NOP    M0101A
15237  0 43 00434    F1601C BRM    END

```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 74
*
15240 0 43 00430 F1602A BRM OBJECT
15241 0 71 24506 LDX #0
15242 0 43 17166 BRM JMSG
15243 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15244 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15245 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15246 2 40*36474 SKS# 036474,22 TEST READY, CHANNEL 74
15247 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 74
*
15250 0 43 00430 F1603A BRM OBJECT
15251 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15252 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15253 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15254 2 40*36274 SKS# 036274,2 TEST CHANNEL STATUS, CHANNEL 74
15255 0 43 00434 BRM END

```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 74
*
15256 0 43 00430 F1604A BRM OBJECT
15257 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15260 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15261 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15262 2 40*36274 SKS# 036274,2 TEST CHANNEL STATUS, CHANNEL 74
15263 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 74
*
15264 0 43 00430 F1605A BRM OBJECT
15265 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15266 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15267 0 71 25357 LDX #074 CHANNEL ADDRESS 74
15270 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
15271 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 74
*
15272 0 43 00430 F1606A BRM OBJECT
15273 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15274 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15275 0 43 16276 BRM BPRSKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15276 2 40*37074 SKS# 037074,2 TEST BUFFER EMPTY, CHANNEL 74
15277 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 74
*
15300 0 43 00430 F1607A BRM OBJECT
15301 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15302 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15303 0 71 25360 LDX #077600074 XMIT TO CHANNEL 74, NON-INT, MODE
15304 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15305 2 40 37074 SKS# 037074,2 TEST BUFFER EMPTY, CHANNEL 74
15306 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 74
*
15307 0 43 00430 F1608A BRM OBJECT
15310 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15311 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15312 0 71 25361 LDX #077640074 XMIT, TO 74, INT=MODE
15313 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
15314 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 74
*
15315 0 43 00430 F1609A BRM OBJECT
15316 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15317 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15320 0 71 25361 LDX #077640074 XMIT, TO 74, INT=MODE
15321 0 43 16533 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
15322 0 43 00434 BRM END

```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 74
*
15323 0 43 00430 F1610A BRM OBJECT
15324 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15325 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15326 0 71 25362 LDX #00040074 XMIT, TO 74, INT=MODE
15327 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
15330 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 74
*
15331 0 43 00430 F1611A BRM OBJECT
15332 0 76 25356 LDA #00100074 ACTIVATE CHANNEL 74 PBT WORD
15333 0 75 25355 LDB #00120074 DEACTIVATE CHANNEL 74 PBT WORD
15334 0 71 25363 LDX #043640074 XMIT, TO 74, INT=MODE
15335 0 43 17035 BRM OVRUN TEST OVER-RUN BIT
15336 0 43 00434 BRM END

```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 75
*
15337 0 43 00430 F1612A BRM OBJECT
15340 0 71 24521 LDX 01
15341 0 43 17166 BRM JMS0
15342 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15343 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15344 0 43 15751 BRM R0YSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15345 2 40*36475 SKS# 036475,2 TEST READY, CHANNEL 75
15346 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 75
*
15347 0 43 00430 F1613A BRM OBJECT
15350 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15351 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15352 0 43 16023 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15353 2 40*36275 SKS# 036275,2 TEST CHANNEL STATUS, CHANNEL 75
15354 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 75
*
15355 0 43 00430 F1614A BRM OBJECT
15356 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15357 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15360 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15361 2 40*36275 SKS# 036275,2 TEST CHANNEL STATUS, CHANNEL 75
15362 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 75
*
15363 0 43 00430 F1615A BRM OBJECT
15364 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15365 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15366 0 71 25366 LDX #075 CHANNEL ADDRESS 75
15367 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
15370 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 75
*
15371 0 43 00430 F1616A BRM OBJECT
15372 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15373 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15374 0 43 16274 BRM BFR6KS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15375 2 40*37075 SKS# 037075,2 TEST BUFFER EMPTY, CHANNEL 75
15376 0 43 00434 BRM END
```

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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 75
*
15377 0 43 00430 F1617A BRM OBJECT
15400 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15401 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15402 0 71 25367 LDX #077600075 XMIT TO CHANNEL 75, NON-INT, MODE
15403 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15404 2 40 37075 SKS# 037075,2 TEST BUFFER EMPTY, CHANNEL 75
15405 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 75
*
15406 0 43 00430 F1618A BRM OBJECT
15407 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15410 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15411 0 71 25370 LDX #077640075 XMIT, TO 75, INT.=MODE
15412 0 43 16433 BRM XMTINT TEST TRANSMIT INTERRUPT
15413 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 75
*
15414 0 43 00430 F1619A BRM OBJECT
15415 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15416 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15417 0 71 25370 LDX #077640075 XMIT, TO 75, INT.=MODE
15420 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
15421 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 75
*
15422 0 43 00430 F1620A BRM OBJECT
15423 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15424 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15425 0 71 25371 LDX #00040075 XMIT, TO 75, INT.=MODE
15426 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
15427 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 75
*
15430 0 43 00430 F1621A BRM OBJECT
15431 0 76 25364 LDA #00100075 ACTIVATE CHANNEL 75 PBT WORD
15432 0 75 25365 LDB #00120075 DEACTIVATE CHANNEL 75 PBT WORD
15433 0 71 25372 LDX #045640075 XMIT, TO 75, INT.=MODE
15434 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
15435 0 43 00434 BRM END
```

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```
*
* TEST READY SKS (BIT 15), CHANNEL 76
*
15436 0 43 00430 F1622A BRM OBJECT
15437 0 71 24930 LDX #2
15440 0 43 17166 BRM JMSG
15441 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15442 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15443 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15444 2 40*36476 SKS# 036476,2 TEST READY, CHANNEL 76
15445 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 76
*
15446 0 43 00430 F1623A BRM OBJECT
15447 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15450 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15451 0 43 16723 BRM CSTSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15452 2 40*36276 SKS# 036276,2 TEST CHANNEL STATUS, CHANNEL 76
15453 0 43 00434 BRM END
```

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```
*
* TEST ON/OFF INTERRUPT, CHANNEL 76
*
15454 0 43 00430 F1624A BRM OBJECT
15455 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15456 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15457 0 43 16070 BRM ONOFFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15460 2 40*36276 SKS# 036276,2 TEST CHANNEL STATUS, CHANNEL 76
15461 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 76
*
15462 0 43 00430 F1625A BRM OBJECT
15463 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15464 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15465 0 71 25375 LDX #076 CHANNEL ADDRESS 76
15466 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
15467 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 76
*
15470 0 43 00430 F1626A BRM OBJECT
15471 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15472 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15473 0 43 16276 BRM BFRBKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15474 2 40*37076 SKS# 037076,2 TEST BUFFER EMPTY, CHANNEL 76
15475 0 43 00434 BRM END
```


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```
*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 76
*
15476 0 43 00430 F1627A BRM OBJECT
15477 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15500 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15501 0 71 25376 LDX #077600076 XMIT TO CHANNEL 76, NON-INT. MODE
15502 0 43 16932 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15503 2 40 37076 SKS# 037076,2 TEST BUFFER EMPTY, CHANNEL 76
15504 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 76
*
15505 0 43 00430 F1628A BRM OBJECT
15506 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15507 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15510 0 71 25377 LDX #077640076 XMIT. TO 76, INT.=MODE
15511 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
15512 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 76
*
15513 0 43 00430 F1629A BRM OBJECT
15514 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15515 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15516 0 71 25377 LDX #077640076 XMIT. TO 76, INT.=MODE
15517 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
15520 0 43 00434 BRM END
```

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```
*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 76
*
15521 0 43 00430 F1630A BRM OBJECT
15522 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15523 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15524 0 71 25400 LDX #00040076 XMIT. TO 76, INT.=MODE
15525 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
15526 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 76
*
15527 0 43 00430 F1631A BRM OBJECT
15530 0 76 25373 LDA #00100076 ACTIVATE CHANNEL 76 PBT WORD
15531 0 75 25374 LDB #00120076 DEACTIVATE CHANNEL 76 PBT WORD
15532 0 71 25401 LDX #045640076 XMIT. TO 76, INT.=MODE
15533 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
15534 0 43 00434 BRM END
```

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```

*
* TEST READY SKS (BIT 15), CHANNEL 77
*
15535 0 43 00430 F1632A BRM OBJECT
15536 0 71 24537 LDX 03
15537 0 43 17166 BRM JMSG
15540 0 76 25402 LDA 000100077 ACTIVATE CHANNEL 77 P0T WORD
15541 0 75 25403 LDB 000120077 DEACTIVATE CHANNEL 77 P0T WORD
15542 0 43 15751 BRM RDYSKS TEST THE READY SKS (BIT 15)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15543 2 40*36477 SKS# 036477,2 TEST READY, CHANNEL 77
15544 0 43 00434 BRM END
*
* TEST CHANNEL STATUS SKS (BIT 16), CHANNEL 77
*
15545 0 43 00430 F1633A BRM OBJECT
15546 0 76 25402 LDA 000100077 ACTIVATE CHANNEL 77 P0T WORD
15547 0 75 25403 LDB 000120077 DEACTIVATE CHANNEL 77 P0T WORD
15550 0 43 16723 BRM C8TSKS TEST THE CHANNEL STATUS SKS (BIT 16)
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15551 2 40*36277 SKS# 036277,2 TEST CHANNEL STATUS, CHANNEL 77
15552 0 43 00434 BRM END

```

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```

*
* TEST ON/OFF INTERRUPT, CHANNEL 77
*
15553 0 43 00430 F1634A BRM OBJECT
15554 0 76 25402 LDA 000100077 ACTIVATE CHANNEL 77 P0T WORD
15555 0 75 25403 LDB 000120077 DEACTIVATE CHANNEL 77 P0T WORD
15556 0 43 16070 BRM 0N0FFS TEST THE ON/OFF INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15557 2 40*36277 SKS# 036277,2 TEST CHANNEL STATUS, CHANNEL 77
15560 0 43 00434 BRM END
*
* TEST CHANNEL ADDRESSING CAPABILITY, CHANNEL 77
*
15561 0 43 00430 F1635A BRM OBJECT
15562 0 76 25402 LDA 000100077 ACTIVATE CHANNEL 77 P0T WORD
15563 0 75 25403 LDB 000120077 DEACTIVATE CHANNEL 77 P0T WORD
15564 0 71 25404 LDX 077 CHANNEL ADDRESS 77
15565 0 43 16172 BRM CHNLAD TEST THE CHANNEL ADDRESSING CAPABILITY
15566 0 43 00434 BRM END
*
* TEST XMIT BUFFER EMPTY SKS (BIT 14), CHANNEL 77
*
15567 0 43 00430 F1636A BRM OBJECT
15570 0 76 25402 LDA 000100077 ACTIVATE CHANNEL 77 P0T WORD
15571 0 75 25403 LDB 000120077 DEACTIVATE CHANNEL 77 P0T WORD
15572 0 43 16276 BRM BFRBKS TEST THE BUFFER EMPTY SKS
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15573 2 40*37077 SKS# 037077,2 TEST BUFFER EMPTY, CHANNEL 77
15574 0 43 00434 BRM END

```

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```

*
* TEST RECEIVE INTERRUPT AND XMIT BUFFER NOT EMPTY SKS ON 77
*
15575 0 43 00430 F1637A BRM OBJECT
15576 0 76 25402 LDA #00100077 ACTIVATE CHANNEL 77 POT WORD
15577 0 75 25403 LDB #00120077 DEACTIVATE CHANNEL 77 POT WORD
15600 0 71 25405 LDX #077600077 XMIT TO CHANNEL 77, NON=INT. MODE
15601 0 43 16332 BRM RECINT TEST RECEIVE INTERRUPT
*
* THE NEXT ENTRY IS AN OBJECT PROGRAM VARIABLE
*
15602 2 40 37077 SKS# 037077,2 TEST BUFFER EMPTY, CHANNEL 77
15603 0 43 00434 BRM END
*
* TEST BUFFER EMPTY INTERRUPT, CHANNEL 77
*
15604 0 43 00430 F1638A BRM OBJECT
15605 0 76 25402 LDA #00100077 ACTIVATE CHANNEL 77 POT WORD
15606 0 75 25403 LDB #00120077 DEACTIVATE CHANNEL 77 POT WORD
15607 0 71 25406 LDX #077640077 XMIT. TO 77, INT.=MODE
15610 0 43 16433 BRM XMITINT TEST TRANSMIT INTERRUPT
15611 0 43 00434 BRM END
*
* TRANSMIT ALL ONES TO CHARACTER BUFFER, CHANNEL 77
*
15612 0 43 00430 F1639A BRM OBJECT
15613 0 76 25402 LDA #00100077 ACTIVATE CHANNEL 77 POT WORD
15614 0 75 25403 LDB #00120077 DEACTIVATE CHANNEL 77 POT WORD
15615 0 71 25406 LDX #077640077 XMIT. TO 77, INT.=MODE
15616 0 43 16553 BRM XMIT1S TRANSMIT ALL ONES TO BUFFER
15617 0 43 00434 BRM END

```

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```

*
* TRANSMIT ALL ZERO TO CHARACTER BUFFER, CHANNEL 77
*
15620 0 43 00430 F1640A BRM OBJECT
15621 0 76 25402 LDA #00100077 ACTIVATE CHANNEL 77 POT WORD
15622 0 75 25403 LDB #00120077 DEACTIVATE CHANNEL 77 POT WORD
15623 0 71 25407 LDX #00040077 XMIT. TO 77, INT.=MODE
15624 0 43 16704 BRM XMIT0S TRANSMIT ALL ZERO TO BUFFER
15625 0 43 00434 BRM END
*
* TEST OVER-RUN BIT (BIT 8), CHANNEL 77
*
15626 0 43 00430 F1641A BRM OBJECT
15627 0 76 25402 LDA #00100077 ACTIVATE CHANNEL 77 POT WORD
15630 0 75 25403 LDB #00120077 DEACTIVATE CHANNEL 77 POT WORD
15631 0 71 25410 LDX #045640077 XMIT. TO 77, INT.=MODE
15632 0 43 17035 BRM OVRRUN TEST OVER-RUN BIT
15633 0 43 00434 BRM END
15634 0 43 00456 BRM DONE
15635 0 43 00452 FINI BRM DONE

```

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*
* SPURIOUS INTERRUPT ENTRANCE

15636 0 76 00450 GLICH LDA DIVERT
15637 0 14 25411 ETR #37777
15640 0 43 15642 BRM SPUR!
15641 0 20 24510 NOP #=1

*
* PROCESS SPURIOUS POP, INTERRUPT, OR TRAP

15642 0 00 00000 SPUR! PZE 0
15643 0 73 25404 SKG #77 WAS SPIT LEGAL
15644 0 01 15655 BRU IEXT NO
15645 0 73 25412 SKG #177 WAS IT A POP
15646 0 01 15661 BRU POP YES
15647 0 73 25413 SKG #237 WAS IT LEGAL
15650 0 01 15655 BRU IEXT NO
15651 0 73 25414 SKG #273 WAS IT I30 = T44
15652 0 01 15665 BRU I30T44 YES
15653 0 73 25415 SKG #377 WAS IT I56 = I74
15654 0 01 15664 BRU I56I74 YES

*
* PROCESS ILLEGAL OR EXTERNAL INTERRUPT

15655 0 76 24510 IEXT LDA #=1
15656 0 35 15722 STA ITABLE+1 RECEIVED
15657 0 76 00450 LDA DIVERT MARK
15660 0 01 15673 BRU COMMON

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*
* PROCESS SPURIOUS POPs

15661 0 35 15722 POP STA ITABLE+1 RECEIVED
15662 0 76 00000 LDA 0 MARK
15663 0 01 15673 BRU COMMON

*
* PROCESS I56 THROUGH I74

15664 0 55 24673 I56I74 ADD #20

*
* PROCESS I30 THROUGH T44

15665 0 54 25416 I30T44 SUB #I61
15666 0 66 00001 RSH 1
15667 0 35 15722 STA ITABLE+1 RECEIVED
15670 0 77*00450 EAX# DIVERT
15671 2 77 37777 EAX =I,2
15672 2 76 00000 LDA 0,2

```

*
* COMMON INTERRUPT ROUTINE
*
COMMON STA ITABLE*2 MARK
15673 0 35 15723 LDA* ITABLE*2
15674 0 76 15723 STA ITABLE*3 INSTRUCTION
15675 0 35 15724 MIN SPUR1
15676 0 61 15442 EAX* SPUR1
15677 0 77 15442 LDA 0,2
15700 2 76 00000 STA ITABLE EXPECTED
15701 0 35 15721 BRM REPORT REPORT ERROR
15702 0 43 00454 NBP IMSG,4 MESSAGE
15703 4 20 15725 FOUR ITABLE DATA
15704 0 04 15721 BRM CLEAR CLEAR PRESENT INTERRUPT
15705 0 43 15711 BRM ERROR GO TO CONTROL
15706 0 43 00460 NBP CARRET (NO MESSAGE)
15707 0 20 15750 BRU* OBJCT RETURN TO LAST OBJECT TRANSFER
15710 0 01 00430

```

```

*
* CLEAR PRESENT INTERRUPT
*
15711 0 00 00000 CLEAR PZE 0
15712 0 76 00401 LDA STATUS
15713 0 72 24507 SKA ** SKIP IF NOT 940
15714 0 11 15716 BRI **2 940
15715 0 01 15716 BRU* **1 925/930
15716 0 20 15716 NOP *
15717 0 02 20002 EIR ENABLE INTERRUPTS
15720 0 51 15711 BRR CLEAR RETURN

*
* MESSAGES
*
15721 0 00 00000 ITABLE PZE 0 INTERRUPTS EXPECTED
15722 0 00 00000 PZE 0 INTERRUPT RECEIVED
15723 0 00 00000 PZE 0 LOCATION AT TIME OF INTERRUPT/TRAP
15724 0 00 00000 PZE 0 INSTRUCTION BEING EXECUTED
15725 52526247 IMSG BCD 1 SPURIOUS POP, INTERRUPT, OR TRAP!
15726 64513146
15727 64621247
15730 46477312
15731 31456725
15732 51516447
15733 63731244
15734 51126251
15735 21471212
15736 52756747 BCD 1 EXPECTED RECEIVED LOCATION CONTENTS !!
15737 25236725
15740 24125125
15741 23253165
15742 25241247
15743 46232163
15744 31464512
15745 23464563
15746 25456362

```



```

*
* TEST CHANNEL STATUS SKS (BIT 16)
*
16023 0 00 01000 CSTSKS PZE
16024 0 35 21133 STA PBT A STORE ACTIVATE PBT WORD
16025 0 36 21134 STB PBT D STORE DEACTIVATE PBT WORD
16026 0 61 16023 MIN CSTSKS
16027 0 76 16023 LDA* CSTSKS STORE CHANNEL STATUS SKS
16030 0 35 16033 STA STAT02
16031 0 35 16044 STA STAT08
16032 0 35 16060 STA STAT12
16033 2 40 36000 STAT02 SKS* 036200,2 TEST CHANNEL STATUS
16034 0 01 16034 BRU STAT06 OFF
16035 0 01 16062 BRU STAT14 ON, ERROR
16036 2 02 37777 STAT06 EBM* 037777,2 SELECT CTE=10
16037 0 13 20133 PBT PBT A ACTIVATE CHANNEL
16040 0 71 25417 LDX #077760000 28 MS DELAY
16041 0 41 16041 BRX *
16042 2 02 37777 EBM* 037777,2 SELECT CTE=10
16043 0 33 21132 PIN PIN#D1 RELEASE SCANNER
16044 2 40 36000 STAT08 SKS* 036200,2 TEST CHANNEL STATUS
16045 0 43 00460 BRM ERROR OFF, ERROR ON ACTIVATE
16046 4 20 21177 NBP #SG4,4
16047 4 20 21166 STAT10 NBP #01A,4
16050 4 20 21176 NBP #01C4,4
16051 0 20 21100 STAT11 NBP #004
16052 2 02 37777 EBM* 037777,2 ON, DEACTIVATE CHANNEL
16053 0 13 20134 PBT PBT D
16054 0 71 25417 LDX #077760000 28 MS DELAY
16055 0 41 16055 BRX *
16056 2 02 37777 EBM* 037777,2 SELECT CTE=10
16057 0 33 21132 PIN PIN#D1 RELEASE SCANNER
16060 2 40 36000 STAT12 SKS* 036200,2 TEST CHANNEL STATUS
16061 0 01 16067 BRU STAT18 OFF
16062 0 43 00460 STAT14 BRM ERROR ON, ERROR ON DEACTIVATE
16063 4 20 21156 NBP #SG3,4

```

```

16064 4 20 20166 STAT16 NBP #01A,4
16065 4 20 21176 NBP #01C4,4
16066 0 20 21700 STAT17 NBP #004
16067 0 51 16023 STAT18 BRM CSTSKS RETURN

```

TEST ON/OFF INTERRUPT

```

16070 0 00 00000 0N0FF8 PZE
16071 0 35 20133 STA P0TA STORE ACTIVATE P0T WORD
16072 0 36 20134 STB P0TD STORE DEACTIVATE P0T WORD
16073 0 61 16070 MIN 0N0FF8
16074 0 76 16070 LDA 0N0FF8
16075 0 35 16124 STA 0N0F08
16076 0 35 16156 STA 0N0F20
16077 0 02 20020 E0M 020020 ARM EXTERNAL INTERRUPT 202
16100 0 13 25420 P0T 000620000
16101 0 76 21113 LDA 0NL 0N INTERRUPT LINK
16102 0 25 00202 STA 0202
16103 0 76 20114 LDA 0FFL OFF INTERRUPT LINK
16104 0 35 00203 STA 0203
16105 0 02 20002 E0M 020002 ENABLE INTERRUPTS
16106 2 02 037777 E0M 037777,2 SELECT CTE=10
16107 0 13 20133 P0T P0TA ACTIVATE CHANNEL
16110 0 71 25417 LDX 0077760000 28 MS DELAY
16111 0 41 16111 BRX *
16112 0 43 00460 BRM ERROR
16113 4 20 21137 NOP M004,4
16114 4 20 20166 0N0F04 NOP M01A,4
16115 0 20 21720 NOP M0106 ERROR, NO 0N=INT. RECEIVED
16116 2 02 037777 E0M 037777,2 SELECT CTE=10
16117 0 33 20132 PIN PINWD1 RELEASE SCANNER
16120 0 01 16136 BRU 0N0F12
    
```

0N=INTERRUPT SERVICE ROUTINE

```

16121 0 00 00000 0N0F06 PZE
16122 2 02 037777 E0M 037777,2 0N=INT. SVC. ROUT.
16123 0 33 20132 PIN PINWD1 RELEASE SCANNER
16124 2 40 036200 0N0F08 SKS 036200,2 TEST FOR CHANNEL 0N
16125 0 43 00460 BRM ERROR OFF, ERROR
    
```

```

16126 4 20 21107 NOP M005,4
16127 4 20 20166 0N0F10 NOP M01A,4
16130 4 20 21476 NOP M0104,4
16131 0 20 21700 NOP M004
16132 0 53 20145 SKN FL0940
16133 0 01 16135 BRU 0+2
16134 0 11 16135 BRJ 0+1 CLEAR INTERRUPT
16135 0 20 16135 NOP *
16136 0 02 20020 0N0F12 E0M 020020
16137 0 13 25421 P0T 000610000 DISARM 202, ARM 203
16140 2 02 037777 E0M 037777,2 SELECT CTE=10
16141 0 13 20134 P0T P0TD DEACTIVATE CHANNEL
16142 0 71 25417 LDX 0077760000 28 MS DELAY
16143 0 41 16143 BRX *
16144 0 43 00460 BRM ERROR
16145 4 20 21146 NOP M006,4
16146 4 20 20166 0N0F16 NOP M01A,4
16147 0 20 21735 NOP M0108 ERROR, NO 0FF=INT. RECEIVED
16150 2 02 037777 E0M 037777,2 SELECT CTE=10
16151 0 33 20132 PIN PINWD1 RELEASE SCANNER
16152 0 01 16171 BRU 0N0F24
    
```

0FF=INTERRUPT SERVICE ROUTINE

```

16153 0 00 00000 0N0F18 PZE
16154 2 02 037777 E0M 037777,2 0FF=INT. SVC. ROUT.
16155 0 33 20132 PIN PINWD1 RELEASE SCANNER
16156 2 40 036200 0N0F20 SKS 036200,2 TEST FOR CHANNEL 0FF
16157 0 01 16167 BRU 0N0F24+2
16160 0 43 00460 BRM ERROR 0N, ERROR
16161 4 20 21123 NOP M006,4
16162 4 20 20166 0N0F22 NOP M01A,4
16163 4 20 21476 NOP M0104,4
16164 0 20 21700 0N0F23 NOP M004
16165 0 53 20145 SKN FL0940
16166 0 01 16170 BRU 0+2
    
```



```

CTE   TAP=300   01/22 08:11  PAGE 317
16167 0 11 16170   BRI   **1   CLEAR INTERRUPT
16170 0 20 16170   NBP   *
16171 0 51 16070   ANBP24 BRR   BNOFFS

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CTE   TAP=300   01/22 08:11  PAGE 318
*
*   TEST CHANNEL ADDRESS
*
16172 0 00 00000   CHNLAD PZE
16173 0 35 20133   STA   PBTB   STORE ACTIVATE PBT WORD
16174 0 36 20134   STB   PBTB   STORE DEACTIVATE PBT WORD
16175 0 37 20130   STX   ADDR   STORE CHANNEL ADDRESS
16176 0 76 20115   LDA   CHNLNL  ON INTERRUPT LINK
16177 0 35 02002   STA   0202
16200 0 76 20116   LDA   CHNLFL  OFF INTERRUPT LINK
16201 0 35 02003   STA   0203
16202 0 02 20020   EBM   020020
16203 0 13 20020   PBT   *00620000  ARM EXTERNAL INTERRUPT 202
16204 0 02 20002   EBM   020002  ENABLE INTERRUPTS
16205 2 02*37777   EBM*  037777,2  SELECT CTE=10
16206 0 13 20133   POT   PBTB   ACTIVATE CHANNEL
16207 0 71 20417   LDX   *C77760000  28 MS DELAY
16210 0 41 16210   BRX   *
16211 0 43 00460   BRM   ERROR
16212 4 20 21137   NBP   *MSG7,4
16213 4 20 20166   CHNL04 NBP   *01A,4
16214 0 20 21720   NBP   *0106  ERROR, NO BN=INT. RECEIVED
16215 2 02*37777   EBM*  037777,2  SELECT CTE=10
16216 0 33 20132   PIN   PINWD1  RELEASE SCANNER
16217 0 01 16240   BRU   CHNL12
*
*   BN=INTERRUPT SERVICE ROUTINE
*
16220 0 00 00000   CHNL06 PZE
16221 2 02*37777   EBM*  037777,2  BN=INT. SVC. ROUT.
16222 0 33 20132   PIN   PINWD1  RELEASE SCANNER
16223 0 76 20132   LDA   PINWD1  FETCH PIN WORD
16224 0 14 20412   ETR   *0177  EXTRACT CHANNEL ADDRESS
16225 0 75 24510   CHNL08 LDB   **1
16226 0 70 20130   SKM   ADDR   TEST CHANNEL ADDRESS
16227 0 43 00460   BRM   ERROR   NOT EQUAL, ERROR

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CTE    TAP=3.C    01/22  08111  PAGE 319
16230  4 20 21155      NOP    MS09,*
16231  4 20 20166      CHNL10 NOP    MO1A,*
16232  4 20 21302      NOP    MO1Q1A,*
16233  0 20 21752      NOP    MO111
16234  0 53 20145      SKN    FL0940
16235  0 01*16237      BRU*   **2
16236  0 11 16237      BRI    **1          CLEAR INTERRUPT
16237  0 20 16237      NOP    *
16240  0 02 20020      CHNL12 EOM    020020
16241  0 13 25421      POT    #00610000    DISARM 202, ARM 203
16242  2 02*37777      EOM*   037777,2    SELECT CTE=10
16243  0 13 20134      POT    #077760000  DEACTIVATE CHANNEL
16244  0 71 25417      LDX    #077760000  28 MS DELAY
16245  0 41 16245      BRX    *
16246  0 43 00460      BRM    ERROR
16247  4 20 21146      NOP    MS08,*
16250  4 20 20166      CHNL16 NOP    MO1A,*
16251  0 20 21735      NOP    MO108
16252  2 02*37777      EOM*   037777,2    ERROR, NO OFF=INT. RECEIVED
16253  0 33 20132      PIN    PINWD1      SELECT CTE=10
16254  0 01 16275      BRU    CHNL24      RELEASE SCANNER
*
*      OFF=INTERRUPT SERVICE ROUTINE
*
16255  0 00 00000      CHNL18 PZE
16256  2 02*37777      EOM*   037777,2    OFF=INT. SVC. ROUT.
16257  0 33 20132      PIN    PINWD1      RELEASE SCANNER
16260  0 76 20132      LDA    PINWD1      FETCH PIN WORD
16261  0 14 25412      ETR    #0177      EXTRACT CHANNEL ADDRESS
16262  0 78 24510      CHNL20 LDB    #=1
16263  0 70 20130      SKM    ADDR        TEST CHANNEL ADDRESS
16264  0 43 00460      BRM    ERROR      NOT EQUAL, ERROR
16265  4 20 21155      NOP    MS09,*
16266  4 20 20166      CHNL22 NOP    MO1A,*
16267  4 20 21302      NOP    MO1Q1A,*
16270  0 20 21752      NOP    MO111

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CTE    TAP=3.C    01/22  08111  PAGE 320
16271  0 53 20145      SKN    FL0940
16272  0 01*16274      BRU*   **2
16273  0 11 16274      BRI    **1          CLEAR INTERRUPT
16274  0 20 16274      NOP    *
16275  0 51 16172      CHNL24 BRR    CHNLAD    RETURN

```

*
* TEST TRANSMIT BUFFER EMPTY SKS (BIT 14)
*

16276	0 00 00000	BFRSKS	PZE		
16277	0 35 21133		STA	P0TA	STORE ACTIVATE P0T WORD
16300	0 36 21134		STB	P0TD	STORE DEACTIVATE P0T WORD
16301	0 61 16276		MIN	BFRSKS	
16302	0 76 16276		LDA*	BFRSKS	STORE BUFFER EMPTY SKS
16303	0 35 16276		STA	BFR04	
16304	0 02 20020		EGM	020020	
16305	0 13 25422		P0T	*0600000	DISARM EXTERNAL INTERRUPTS
16306	0 02 20004		EGM	020004	DISABLE INTERRUPTS
16307	2 02 37777		EGM*	037777,2	SELECT CTE=10
16310	0 13 21133		P0T	P0TA	ACTIVATE CHANNEL
16311	0 71 25417		LDX	*077760000	28 MS DELAY
16312	0 41 16312		BRX	*	
16313	2 02 37777		EGM*	037777,2	SELECT CTE=10
16314	0 33 21132		PIN	PIN:01	RELEASE SCANNER
16315	2 40 37000	BFR04	SKS*	037000,2	TEST BUFFER EMPTY
16316	0 43 01460		BRM	ERR0R	NOT EMPTY, ERROR
16317	4 20 21167		N0P	MSG10,4	
16320	4 20 21167	BFR06	N0P	MSG10,4	
16321	4 20 22004		N0P	M0114,4	BUFFER NOT EMPTY ERROR
16322	0 20 22043	BFR07	N0P	M005	
16323	2 02 37777		EGM*	037777,2	SELECT CTE=10
16324	0 13 21134		P0T	P0TD	BUFFER EMPTY, DEACTIVATE CHANNEL
16325	0 71 25417		LDX	*077760000	28 MS DELAY
16326	0 41 16326		BRX	*	
16327	2 02 37777		EGM*	037777,2	SELECT CTE=10
16330	0 33 21132		PIN	PIN:01	RELEASE SCANNER
16331	0 51 16276	BFR08	BRR	BFRSKS	RETURN

*
* TEST RECEIVE INTERRUPT AND TRANSMIT BUFFER
* NOT EMPTY SKS (BIT 14)
*

16332	0 00 00000	RECINT	PZE		
16333	0 35 21133		STA	P0TA	STORE ACTIVATE P0T WORD
16334	0 36 21134		STB	P0TD	STORE DEACTIVATE P0T WORD
16335	0 37 21135		STX	P0TX	STORE XMIT, P0T WORD
16336	0 61 16332		MIN	RECINT	
16337	0 76 16332		LDA*	RECINT	STORE BUFFER NOT EMPTY SKS
16340	0 35 16356		STA	REC04	
16341	0 02 20020		EGM	020020	
16342	0 13 25422		P0T	*00700000	ARM EXTERNAL INTERRUPT 200
16343	0 76 25417		LDA	RECL	RECEIVE INTERRUPT LINK
16344	0 35 02000		STA	0200	
16345	2 02 37777		EGM*	037777,2	SELECT CTE=10
16346	0 13 21133		P0T	P0TA	ACTIVATE CHANNEL
16347	0 71 25417		LDX	*077760000	28 MS DELAY
16350	0 41 16350		BRX	*	
16351	2 02 37777		EGM*	037777,2	SELECT CTE=10
16352	0 33 21132		PIN	PIN:01	RELEASE SCANNER
16353	0 02 20002		EGM	020002	ENABLE INTERRUPTS
* * TRANSMIT IN NON-INTERRUPT MODE *					
16354	2 02 37777		EGM*	037777,2	SELECT CTE=10
16355	0 13 21135		P0T	P0TX	XMIT, NON-INT. MODE
16356	2 40 37000	REC04	SKS*	037000,2	TEST BUFFER EMPTY
16357	0 01 16370		BRU	REC07+3	BUFFER NOT EMPTY
16360	0 43 01460		BRM	ERR0R	
16361	4 20 21205		N0P	MSG11,4	
16362	4 20 21166	REC06	N0P	M01A,4	
16363	4 20 22004		N0P	M0114,4	BUFFER EMPTY, ERROR
16364	0 20 22043	REC05	N0P	M005	
16365	2 02 37777	REC07	EGM*	037777,2	SELECT CTE=10
16366	0 33 21132		PIN	PIN:01	RELEASE SCANNER

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16367  0 01 16421    BRU    REC12
16370  0 76 24456    LDA    *05          SET 140 MS DELAY COUNTER
16371  0 35 20131    STA    COUNTR
16372  0 71 25417    LDX    #077760000  28 MS DELAY
16373  0 41 16373    BRX    *
16374  0 60 20131    SKR    COUNTR
16375  0 20 00000    NOP
16376  0 53 20131    SKN    COUNTR
16377  0 01 16372    BRU    *+5
16400  0 43 00460    BRM    ERROR
16401  4 20 21221    NOP    M8812,4
16402  4 20 20166    RECO8  NOP    M01A,4
16403  4 20 22243    NOP    M0116,4  NO RECEIVE INTERRUPT
16404  0 20 22252    RECO9  NOP    M006
16405  2 02*37777    ESM*   037777,2  SELECT CTE=10
16406  0 33 20132    PIN    PINWD1    RELEASE SCANNER
16407  0 01 16421    BRU    REC12
*
*    RECEIVE INTERRUPT SERVICE ROUTINE
*
16410  0 00 00000    RECO10 PZE
16411  2 02*37777    ESM*   037777,2  RECEIVE INT. SVC. ROUT.
16412  0 33 20132    PIN    PINWD1    RELEASE SCANNER
16413  2 02*37777    ESM*   037777,2  SELECT CTE=10
16414  0 33 20132    PIN    PINWD1    RELEASE SCANNER
16415  0 53 20145    SKN    FL0940
16416  0 01*16420    BRU*   **2
16417  0 11 16420    BRJ    **1
16420  0 20 16420    NOP
16421  0 02 20020    RECO12 ERM    020020
16422  0 13 24511    PBT    #00600000  DISARM EXTERNAL INTERRUPTS
16423  0 02 20004    ERM    020004    DISABLE INTERRUPTS
16424  2 02*37777    ESM*   037777,2  SELECT CTE=10
16425  0 13 20134    PBT    PBT0      DEACTIVATE CHANNEL
16426  0 71 25417    LDX    #077760000  28 MS DELAY
16427  0 41 16427    BRX    *

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CTE    TAP=3.0    01/22 08111    PAGE 324
16430  2 02*37777    ESM*   037777,2  SELECT CTE=10
16431  0 33 20132    PIN    PINWD1    RELEASE SCANNER
16432  0 51 16332    BRR    RECINT    RETURN

```

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*
* TEST XMIT. BUFFER EMPTY INTERRUPT
*
16433 0 00 00000 XMTINT PZE
16434 0 35 20133 STA P8TA STORE ACTIVATE P8T WORD
16435 0 36 20134 STB P8TD STORE DEACTIVATE P8T WORD
16436 0 37 20135 STX P8TX STORE TRANSMIT P8T WORD
16437 0 02 20020 E8M 020020
16440 0 13 20423 PBT #00740000 ARM EXTERNAL INTS: 200,201
16441 0 76 20120 LDA XMITRL RECEIVE INTERRUPT LINK
16442 0 35 00000 STA 0200
16443 0 76 20121 LDA XMITXL TRANSMIT INTERRUPT LINK
16444 0 35 00001 STA 0201
16445 0 02 37777 E8M# 037777,2 SELECT CTE=10
16446 0 13 20133 PBT P8TA ACTIVATE CHANNEL
16447 0 71 20417 LDX #077760000 28 MS DELAY
16450 0 41 10450 BRX *
16451 0 02 37777 E8M# 037777,2 SELECT CTE=10
16452 0 33 20132 PIN PIN#D1 RELEASE SCANNER
16453 0 02 20002 E8M 020002 ENABLE INTERRUPTS
*
* TRANSMIT IN INTERRUPT MODE
*
16454 0 76 20410 LDA #077777777 SET FLAGS
16455 0 35 20136 STA RFLAG SET REC. FLAG
16456 0 35 20137 STA XFLAG SET XMIT FLAG
16457 0 76 20454 LDA #05 SET 140 MS DELAY COUNTER
16460 0 35 20131 STA COUNTR
16461 0 02 37777 E8M# 037777,2 SELECT CTE=10
16462 0 13 20135 PBT P8TX XMIT., INTERRUPT MODE
16463 0 71 20417 LDX #077760000 28 MS DELAY
16464 0 41 10454 BRX *
16465 0 60 20131 SKR COUNTR
16466 0 20 00000 NBP
16467 0 53 20131 SKN COUNTR DECREMENT DELAY COUNTER
16470 0 01 10463 BRU #*5

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16471 0 43 20460 BRM ERRBR
16472 4 20 21231 NBP MSG13,4
16473 4 20 20166 YMIT04 NBP M01A,4
16474 4 20 22043 NBP M0116,4
16475 4 20 22252 YMIT05 NBP M006,4
16476 4 20 22316 NBP M0117,4
16477 0 20 22323 XMIT07 NBP M007
16500 0 01 16544 BRU XMIT14
*
* RECEIVE INTERRUPT SERVICE ROUTINE
*
16501 0 00 00000 YMIT06 PZE
16502 0 02 37777 E8M# 037777,2 REC. INT. SVC. RBUT.
16503 0 33 20132 PIN PIN#D1 RELEASE SCANNER
16504 0 61 20134 MIN RFLAG
16505 0 53 20145 SKN FLG940
16506 0 01 16510 BRU #*2
16507 0 11 16510 BRI #*1
16510 0 20 16510 NBP *
16511 0 71 20417 LDX #077760000 28 MS DELAY
16512 0 53 20137 SKN XFLAG TEST XMIT FLAG
16513 0 01 10444 BRU XMIT14
16514 0 41 10412 BRX #*2
16515 0 43 20460 BRM ERRBR
16516 4 20 21244 NBP MSG14,4
16517 4 20 20166 XMIT08 NBP M01A,4
16520 4 20 22316 NBP M0117,4
16521 0 20 22323 YMIT09 NBP M007
16522 0 01 16544 BRU XMIT14
*
* TRANSMIT BUFFER EMPTY INT. SVC. ROUTINE
*
16523 0 00 00000 YMIT10 PZE
16524 0 02 37777 E8M# 037777,2 XMIT. INT. SVC. RBUT.
16525 0 33 20132 PIN PIN#D1 RELEASE SCANNER
16526 0 61 20137 MIN XFLAG

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CTE    TAP=3.C    01/22  08111  PAGE 327
16527  0 53 20145      SKN    FL0940
16530  0 01*16532     BRU*   *+2
16531  0 11 16532     BRJ    *+1
16532  0 20 16532     NBP    *
16533  0 71 25417     LDX    $077760000    28 MS DELAY
16534  0 53 20136     SKN    RFLAG          TEST RECEIVE FLAG
16535  0 01 16544     BRU    XMIT14
16536  0 41 16534     BRX    *+2
16537  0 43 00460     BRM    ERROR
16540  4 20 21221     NBP    M0012,4
16541  4 20 20166     XMIT12 NBP    M01A,4
16542  4 20 22243     NBP    M0116,4    NO RECEIVE INT., ERROR
16543  0 20 22252     XMIT13 NBP    M006
16544  2 02*37777     XMIT14 EBM*   037777,2
16545  0 13 20134     POT    POTD          DEACTIVATE CHANNEL
16546  0 71 25417     LDX    $077760000    28 MS DELAY
16547  0 41 16547     BRX    *
16550  2 02*37777     EBM*   037777,2    SELECT CTE=10
16551  0 33 20132     PIN    PINWD1       RELEASE SCANNER
16552  0 51 16433     BRR    XMTINT

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CTE    TAP=3.C    01/22  08111  PAGE 328
*
*   TRANSMIT ALL ONES TO BUFFER
*
16553  0 00 00000     XMIT18 PZE
16554  0 35 20133     STA    P0TA          STORE ACTIVATE POT WORD
16555  0 36 20134     STA    P0TD          STORE DEACTIVATE POT WORD
16556  0 37 20135     STA    P0TX          STORE TRANSMIT POT WORD
16557  0 02 20020     EBM    020020
16560  0 13 25423     POT    $00740000     ARM EXTERNAL INTS. 200,201
16561  0 76 20122     LDA    XMIT1R        RECEIVE INTERRUPT LINK
16562  0 35 00200     STA    0200
16563  0 76 20123     LDA    XMIT1X        TRANSMIT INTERRUPT LINK
16564  0 35 00201     STA    0201
16565  2 02*37777     EBM*   037777,2     SELECT CTE=10
16566  0 13 20133     POT    P0TA          ACTIVATE CHANNEL
16567  0 71 25417     LDX    $077760000    28 MS DELAY
16570  0 41 16570     BRX    *
16571  2 02*37777     EBM*   037777,2     SELECT CTE=10
16572  0 33 20132     PIN    PINWD1       RELEASE SCANNER
16573  0 02 20002     EBM    020002       ENABLE INTERRUPTS

*
*   TRANSMIT IN INTERRUPT MODE
*
16574  0 76 24510     LDA    $07777777     SET FLAGS
16575  0 35 20136     STA    RFLAG        SET REC. FLAG
16576  0 35 20137     STA    XFLAG        SET XMIT FLAG
16577  0 76 24556     LDA    $05          SET 140 MS DELAY COUNTER
16600  0 35 20131     STA    COUNTR
16601  2 02*37777     EBM*   037777,2     SELECT CTE=10
16602  0 13 20135     POT    P0TX          XMIT., INTERRUPT MODE
16603  0 71 25417     LDX    $077760000    28 MS DELAY
16604  0 41 16604     BRX    *
16605  0 60 20131     SKR    COUNTR
16606  0 20 00000     NBP
16607  0 53 20131     SKN    COUNTR        DECREMENT DELAY COUNTER
16610  0 01 16603     BRU    *+5

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16611 0 43 21460 BRM ERR9R
16612 4 20 21231 NBP MSG13,4
16613 4 20 21166 XMT104 NBP MO1A,4
16614 4 20 22243 NBP MO116,4
16615 4 20 22252 XMT103 NBP MO06,4
16616 4 20 22316 NBP MO117,4
16617 0 20 22323 XMT105 NBP MO07
16620 0 01 14475 BRU XMT114

NO REC. INT. NOR XMIT. INT. RECEIVED

RECEIVE INTERRUPT SERVICE ROUTINE

16621 0 00 00000 XMT106 PZF
16622 2 02*37777 EBM* 037777,2
16623 0 33 21132 PIN PIN+D1
16624 0 61 21136 MIN RFLAG
16625 0 76 21132 LDA PIN+D1
16626 0 14 24515 ETR #077600000
16627 0 75 24510 LDR #1
16630 0 70 24515 SKN #077600000
16631 0 43 00160 BRM ERR9R
16632 4 20 21254 NBP MSG15,4
16633 4 20 21166 XMT107 NBP MO1A,4
16634 4 20 22222 NBP MO118,4
16635 0 20 22252 XMT117 NBP MO08
16636 0 53 21145 SKN FLG940
16637 0 01*14441 BRU* **2
16640 0 11 14441 BRI **1
16641 0 20 14441 NBP *
16642 0 71 25417 LDX #077760000
16643 0 53 21137 SKN XFLAG
16644 0 01 14475 BRU XMT114
16645 0 41 14443 BRX **2
16646 0 43 00160 BRM ERR9R
16647 4 20 21244 NBP MSG14,4
16650 4 20 21166 XMT109 NBP MO1A,4
16651 4 20 22214 NBP MO117,4

REC. INT. SVC. ROUT.
RELEASE SCANNER

GET CHARACTER
EXTRACT CHARACTER
TEST THE CHARACTER

CLEAR INTERRUPT

28 MS DELAY
TEST XMIT FLAG

NO XMIT. INT., ERROR

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16652 0 20 22323 XMT116 NBP MO07
16653 0 01 14475 BRU XMT114

TRANSMIT BUFFER EMPTY INT. SVC. ROUTINE

16654 0 00 00000 XMT110 PZF
16655 2 02*37777 EBM* 037777,2
16656 0 33 21132 PIN PIN+D1
16657 0 61 21137 MIN XFLAG
16660 0 53 21145 SKN FLG940
16661 0 01*14463 BRU* **2
16662 0 11 14463 BRI **1
16663 0 20 14463 NBP *
16664 0 71 25417 LDX #077760000
16665 0 53 21136 SKN RFLAG
16666 0 01 14475 BRU XMT114
16667 0 41 14465 BRX **2
16670 0 43 00160 BRM ERR9R
16671 4 20 21221 NBP MSG12,4
16672 4 20 21166 XMT112 NBP MO1A,4
16673 4 20 22243 NBP MO116,4
16674 0 20 22252 XMT113 NBP MO06
16675 2 02*37777 XMT114 EBM* 037777,2
16676 0 13 20134 PBT PBT0
16677 0 71 25417 LDX #077760000
16700 0 41 14700 BRX *
16701 2 02*37777 EBM* 037777,2
16702 0 33 21132 PIN PIN+D1
16703 0 51 14553 BRR XMT115

XMIT. INT. SVC. ROUT.
RELEASE SCANNER

28 MS DELAY
TEST RECEIVE FLAG

NO RECEIVE INT., ERROR

DEACTIVATE CHANNEL
28 MS DELAY

SELECT CTE=10
RELEASE SCANNER

```

*
* TRANSMIT ALL ZERO TO BUFFER
*
16704 0 00 00000 XMIT05 PZE
16705 0 35 20133 STA P8TA STORE ACTIVATE P8T WORD
16706 0 36 20134 STB P8TD STORE DEACTIVATE P8T WORD
16707 0 37 20135 STX P8TX STORE TRANSMIT P8T WORD
16710 0 02 20020 EOM 020020
16711 0 13 25423 P8T #00740000 AMM EXTERNAL INTS: 200,201
16712 0 76 20124 LDA XMIT0R RECEIVE INTERRUPT LINK
16713 0 35 00000 STA 0200
16714 0 76 20125 LDA XMIT0X TRANSMIT INTERRUPT LINK
16715 0 35 00001 STA 0201
16716 2 02*37777 EOM# 037777,2 SELECT CTE=10
16717 0 13 20133 P8T P8TA ACTIVATE CHANNEL
16720 0 71 25417 LDX #077760000 28 MS DELAY
16721 0 41 16721 BRX *
16722 2 02*37777 EOM# 037777,2 SELECT CTE=10
16723 0 33 20132 PIN PINWD1 RELEASE SCANNER
16724 0 02 20002 EOM 020002 ENABLE INTERRUPTS

```

```

*
* TRANSMIT IN INTERRUPT MODE
*
16725 0 76 24510 LDA #077777777 SET FLAGS
16726 0 35 20136 STA RFLAG SET REC. FLAG
16727 0 35 20137 STA XFLAG SET XMIT FLAG
16730 0 76 24556 LDA #05 SET 140 MS DELAY COUNTER
16731 0 35 20131 STA COUNTR
16732 2 02*37777 EOM# 037777,2 SELECT CTE=10
16733 0 13 20135 P8T P8TX XMIT, INTERRUPT MODE
16734 0 71 25417 LDX #077760000 28 MS DELAY
16735 0 41 16735 BRX *
16736 0 60 20131 SKR COUNTR DECREMENT DELAY COUNTER
16737 0 20 00000 NOP
16740 0 53 20131 SKN COUNTR
16741 0 01 16734 BRU **5

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16742 0 43 00460 BRM ERROR
16743 4 20 21231 NOP M8013,4
16744 4 20 20166 XMT004 NOP M01A,4
16745 4 20 22243 NOP M0116,4 NO REC. INT. NOR XMIT, INT. RECEIVED
16746 4 20 22252 XMT003 NOP M006,4
16747 4 20 22316 NOP M0117,4
16750 0 20 22323 XMT005 NOP M007
16751 0 01 17026 BRU XMT014

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```

*
* RECEIVE INTERRUPT SERVICE ROUTINE
*
16752 0 00 00000 XMT006 PZE
16753 2 02*37777 EOM# 037777,2 REC. INT. SVC. ROUT.
16754 0 33 20132 PIN PINWD1 RELEASE SCANNER
16755 0 61 20136 MIN RFLAG
16756 0 76 20132 LDA PINWD1 GET CHARACTER
16757 0 14 24515 ETR #077600000 EXTRACT CHARACTER
16760 0 75 24510 LDB #1
16761 0 70 24506 SKM #00000000 TEST THE CHARACTER
16762 0 43 00460 BRM ERROR
16763 4 20 21254 NOP M8015,4
16764 4 20 20166 XMT007 NOP M01A,4
16765 4 20 22423 NOP M0118,4
16766 0 20 22456 XMT017 NOP M008 CHARACTER ERROR
16767 0 53 20145 SKN FL0940
16770 0 01*16772 BRU# **2
16771 0 11 16772 BRI **1 CLEAR INTERRUPT
16772 0 20 16772 NOP *
16773 0 71 25417 LDX #077760000 28 MS DELAY
16774 0 53 20137 SKN XFLAG TEST XMIT FLAG
16775 0 01 17026 BRU XMT014
16776 0 41 16774 BRX **2
16777 0 43 00460 BRM ERROR
17000 4 20 21244 NOP M8014,4
17001 4 20 20166 XMT009 NOP M01A,4
17002 4 20 22316 NOP M0117,4 NO XMIT, INT., ERROR

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CTE    TAP=3.0    01/22 08:11    PAGE 333
17003 0 20 22823 XMT016 NBP    M007
17004 0 01 17026 BRU    XMT014
*
*    TRANSMIT BUFFER EMPTY INT. SVC. ROUTINE
*
17005 0 00 00000 YMT010 PZE
17006 2 02*37777 EBM*    037777,2    XMIT. INT. SVC. RBUT.
17007 0 33 21132 PIN    PIN#01    RELEASE SCANNER
17010 0 61 21137 YIN    XFLAG3
17011 0 53 21145 SKN    FLG940
17012 0 01*17019 BRU*    **2
17013 0 11 17014 BRI    **1
17014 0 20 17014 NBP    *
17015 0 71 25417 LDX    #077760000    28 MS DELAY
17016 0 53 21136 SKN    RFLAG    TEST RECEIVE FLAG
17017 0 01 17024 BRU    XMT014
17020 0 41 17014 BRX    **2
17021 0 43 00460 BRM    ERR0R
17022 4 20 21221 NBP    YSG12,4
17023 4 20 21166 YMT012 NBP    M01A,4
17024 4 20 22043 NBP    M0116,4    NO RECEIVE INT., ERROR
17025 0 20 22052 YMT013 NBP    M006
17026 2 02*37777 YMT014 EBM*    037777,2
17027 0 13 21134 PBT    P0TD    DEACTIVATE CHANNEL
17030 0 71 25417 LDX    #077760000    28 MS DELAY
17031 0 41 17031 HRX    *
17032 2 02*37777 EBM*    037777,2    SELECT CTE=10
17033 0 33 21132 PIN    PIN#01    RELEASE SCANNER
17034 0 51 16704 BRU    XMIT05

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*
*    TEST BVRN=RUN BIT NOT SET (BIT 8)
*
17035 0 00 00000 BVRUN PZE
17036 0 35 21133 STA    P0TA    STORE ACTIVATE P0T WORD
17037 0 36 21134 STB    P0TD    STORE DEACTIVATE P0T WORD
17040 0 37 21135 STX    P0TX    STORE TRANSMIT P0T WORD
17041 0 02 21020 EBM    020020
17042 0 13 25423 PBT    #00740000    ARM EXTERNAL INTS. 200,201
17043 0 76 20126 LDA    BVRNRL    RECEIVE INTERRUPT LINK
17044 0 35 00000 STA    0200
17045 0 76 20127 LDA    BVRNXL    TRANSMIT INTERRUPT LINK
17046 0 35 00001 STA    0201
17047 2 02*37777 EBM*    037777,2    SELECT CTE=10
17050 0 13 21133 PBT    P0TA    ACTIVATE CHANNEL
17051 0 71 25417 LDX    #077760000    28 MS DELAY
17052 0 41 17052 BRX    *
17053 2 02*37777 EBM*    037777,2    SELECT CTE=10
17054 0 33 21132 PIN    PIN#01    RELEASE SCANNER
17055 0 02 21002 EBM    020002    ENABLE INTERRUPTS
*
*    TRANSMIT IN INTERRUPT MODE
*
17056 0 76 24510 LDA    #077777777    SET FLAGS
17057 0 35 20136 STA    RFLAG    SET REC. FLAG
17060 0 35 20137 STA    XFLAG    SET XMIT FLAG
17061 0 76 24556 LDA    #05    SET 140 MS DELAY COUNTER
17062 0 35 20131 STA    COUNTR
17063 2 02*37777 EBM*    037777,2    SELECT CTE=10
17064 0 13 20135 PBT    P0TX    XMIT., INTERRUPT MODE
17065 0 71 25417 LDX    #077760000    28 MS DELAY
17066 0 41 17066 BRX    *
17067 0 60 20131 SKR    COUNTR    DECREMENT DELAY COUNTER
17070 0 20 00000 NBP
17071 0 53 20131 SKN    COUNTR
17072 0 01 17065 BRU    **5

```

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17073	0 43 00460	BRM	ERROR	
17074	4 20 21231	NOP	MSG13,4	
17075	4 20 20166	SVRN04	NOP	MO1A,4
17076	4 20 22243	NOP	MO116,4	
17077	4 20 22252	SVRN03	NOP	MO06,4
17100	4 20 22316	NOP	MO117,4	
17101	0 20 22323	SVRN05	NOP	MO07
17102	0 01 17157	BRU	SVRN14	

NO REC. INT. NOR XMIT. INT. RECEIVED

RECEIVE INTERRUPT SERVICE ROUTINE

17103	0 00 00000	SVRN06	PZE		
17104	2 02 37777	EDM	037777,2	REC. INT. SVC. ROUT.	
17105	0 33 20132	PIN	PINWD1	RELEASE SCANNER	
17106	0 61 20136	MIN	RFLAG		
17107	0 76 20132	LDA	PINWD1	GET CHARACTER	
17110	0 14 24814	ETR	00100000	EXTRACT OVER-RUN BIT	
17111	0 75 24510	LDB	001		
17112	0 70 24506	SKM	00000000		
17113	0 43 00460	BRM	ERROR		
17114	4 20 21266	NOP	MSG16,4		
17115	4 20 20166	SVRN08	NOP	MO1A,4	
17116	4 20 22413	NOP	MO119,4		
17117	0 20 22424	SVRN09	NOP	MO09	
17120	0 53 20145	SKN	FL0940		
17121	0 01 17123	BRU	002		
17122	0 11 17123	BRI	001	CLEAR INTERRUPTS	
17123	0 20 17123	NOP	.		
17124	0 71 25417	LDX	077760000	28 MS DELAY	
17125	0 53 20137	SKN	XFLAG	TEST XMIT FLAG	
17126	0 01 17157	BRU	SVRN14		
17127	0 41 17125	BRX	002		
17130	0 43 00460	BRM	ERROR		
17131	4 20 21244	NOP	MSG14,4		
17132	4 20 20166	NOP	MO1A,4		
17133	4 20 22316	NOP	MO117,4	NO XMIT. INT., ERROR	

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17134	0 20 22323	SVRN16	NOP	MO07	
17135	0 01 17157	BRU	SVRN14		

TRANSMIT BUFFER EMPTY INT. SVC. ROUTINE

17136	0 00 00000	SVRN10	PZE		
17137	2 02 37777	EDM	037777,2	XMIT. INT. SVC. ROUT.	
17140	0 33 20132	PIN	PINWD1	RELEASE SCANNER	
17141	0 61 20137	MIN	XFLAG		
17142	0 53 20145	SKN	FL0940		
17143	0 01 17145	BRU	002		
17144	0 11 17145	BRI	001		
17145	0 20 17145	NOP	.		
17146	0 71 25417	LDX	077760000	28 MS DELAY	
17147	0 53 20136	SKN	RFLAG	TEST RECEIVE FLAG	
17150	0 01 17157	BRU	SVRN14		
17151	0 41 17147	BRX	002		
17152	0 43 00460	BRM	ERROR		
17153	4 20 21221	NOP	MSG12,4		
17154	4 20 20166	SVRN12	NOP	MO1A,4	
17155	4 20 22243	NOP	MO116,4		
17156	0 20 22252	SVRN13	NOP	MO06	
17157	2 02 37777	SVRN14	EDM	037777,2	
17160	0 13 20134	PBT	PBT0	DEACTIVATE CHANNEL	
17161	0 71 25417	LDX	077760000	28 MS DELAY	
17162	0 41 17162	BRX	.		
17163	2 02 37777	EDM	037777,2	SELECT CTE=10	
17164	0 33 20132	PIN	PINWD1	RELEASE SCANNER	
17165	0 51 17035	BRR	SVRRUN		

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*
* INITIALIZE CHANNEL ERROR MESSAGES FOR CHANNELS 0 - 3.
*

17166	0	00	01000	JMSG	PZE
17167	2	76	17235	LDA	JMSG1,2
17170	0	35	17267	STA	RDY05
17171	2	76	17241	LDA	JMSG2,2
17172	0	35	17204	STA	RDY11
17173	2	76	17245	LDA	JMSG3,2
17174	0	35	17221	STA	RDY17
17175	2	76	17251	LDA	JMSG4,2
17176	0	35	17251	STA	STAT11
17177	0	35	17266	STA	STAT17
17200	0	35	17133	STA	BNDF12=3
17201	0	35	17164	STA	BNDF23
17202	2	76	17255	LDA	JMSG5,2
17203	0	35	17222	STA	BFR07
17204	0	35	17264	STA	RECC5
17205	2	76	17261	LDA	JMSG6,2
17206	0	35	17204	STA	RECC9
17207	0	35	17242	STA	XMT113
17210	0	35	17215	STA	XMT103
17211	0	35	17274	STA	XMT113
17212	0	35	17246	STA	XMT003
17213	0	35	17225	STA	XMT013
17214	0	35	17103	STA	SVR106
17215	0	35	17156	STA	SVR113
17216	2	76	17265	LDA	JMSG7,2
17217	0	35	17277	STA	XMT07
17220	0	35	17221	STA	XMT09
17221	0	35	17217	STA	XMT105
17222	0	35	17252	STA	XMT116
17223	0	35	17250	STA	XMT005
17224	0	35	17203	STA	XMT016
17225	0	35	17101	STA	SVR105
17226	0	35	17134	STA	SVR116

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17227	2	76	17271	LDA	JMSG8,2
17230	0	35	17235	STA	XMT117
17231	0	35	17266	STA	XMT017
17232	2	76	17275	LDA	JMSG9,2
17233	0	35	17117	STA	SVR109
17234	0	51	17166	BRR	JMSG

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•
17235 0 20 21411 JMSG1 NOP M001
17236 0 20 21417 NOP M101
17237 0 20 21425 NOP M201
17240 0 20 21433 NOP M301
17241 0 20 21501 JMSG2 NOP M002
17242 0 20 21527 NOP M102
17243 0 20 21555 NOP M202
17244 0 20 21603 NOP M302
17245 0 20 21636 JMSG3 NOP M003
17246 0 20 21646 NOP M103
17247 0 20 21656 NOP M203
17250 0 20 21666 NOP M303
17251 0 20 21700 JMSG4 NOP M004
17252 0 20 21704 NOP M104
17253 0 20 21710 NOP M204
17254 0 20 21714 NOP M304
17255 0 20 22043 JMSG5 NOP M005
17256 0 20 22103 NOP M105
17257 0 20 22143 NOP M205
17260 0 20 22203 NOP M305
17261 0 20 22252 JMSG6 NOP M006
17262 0 20 22263 NOP M106
17263 0 20 22274 NOP M206
17264 0 20 22305 NOP M306
17265 0 20 22323 JMSG7 NOP M007
17266 0 20 22343 NOP M107
17267 0 20 22363 NOP M207
17270 0 20 22403 NOP M307
17271 0 20 22456 JMSG8 NOP M008
17272 0 20 22505 NOP M108
17273 0 20 22535 NOP M208
17274 0 20 22564 NOP M308
17275 0 20 22624 JMSG9 NOP M009
17276 0 20 22632 NOP M109
17277 0 20 22640 NOP M209

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17300 0 20 22646 NOP M309

*
* UNIT PARAMETER TABLE
*

17301	0 20 17307	HPT	NBP	UIM	UNIT IDENTIFIER MSG. ADDR.
17302	0 20 17322		NBP	UAM	UNIT ABSTRACT MSG. ADDR.
17303	0 20 17320		NBP	JVM	UNIT VARIABLE MSG. ADDR.
17304	0 01 17306		BNE	FAW	
17305	00001001		DATA	00000001	UNIT TWENTY THREE IDENTIFIER BIT
17306	00001000	FAW	DATA	0	FUNCTION ACTIVATION WORD
17307	5P441002	HIM	BCD	' U 23 = CTE=10/11 DIAGNOSTIC 2.0''	
17310	03124112				
17311	23630641				
17312	01002101				
17313	01122131				
17314	21274444				
17315	62633123				
17316	12023100				
17317	37121112				
17320	52121226	JVM	BCD	' FAW ''	
17321	21660037				
17322	52321330	HAM	BCD	' THE FIRST 16 FUNCTIONS WILL TEST THE CTE=10 AND ON'	
17323	25121431				
17324	51621112				
17325	01061226				
17326	64452163				
17327	31464462				
17330	12662143				
17331	43121325				
17332	62631163				
17333	30251222				
17334	63254101				
17335	00122145				
17336	24121145				
17337	25122163		BCD	' E CTE=11 UNIT.'	
17340	25421101				
17341	12644631				

17342	63331212				
17343	52214343		BCD	' ALL CTE=11 UNITS ARE ASSUMED TO BE LINKED IN A'	
17344	12236325				
17345	40010112				
17346	64453163				
17347	62122151				
17350	25122162				
17351	62644425				
17352	24121146				
17353	12222512				
17354	43314542				
17355	25241231				
17356	45122112				
17357	62255264		BCD	' SEQUENTIAL ORDER. '	
17360	25456331				
17361	21431246				
17362	51242551				
17363	33121112				
17364	52214343		BCD	' ALL CTE=11 MODULE LOCATIONS ARE GIVEN AS JXX, '	
17365	12236325				
17366	40010112				
17367	44462464				
17370	43251243				
17371	44232163				
17372	31464462				
17373	12215125				
17374	12273165				
17375	25451221				
17376	62124167				
17377	67731212				
17400	12633125		BCD	' THE USER IS DIRECTED TO'	
17401	12646225				
17402	51122162				
17403	12243151				
17404	25236325				
17405	24126346				

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17406	52633025		BCD	' THE SPECIFIC CHASSIS BEING TESTED. '
17407	12624725			
17410	23312631			
17411	23122330			
17412	21626231			
17413	62122225			
17414	31452712			
17415	63256263			
17416	25243312			
17417	52214343		BCD	' ALL CTE=10 MODULE LOCATIONS ARE DENOTED BY '
17420	12236325			
17421	40010012			
17422	44462464			
17423	43251243			
17424	46232163			
17425	31464562			
17426	12215125			
17427	12242545			
17430	46632524			
17431	12227012			
17432	23302162		BCD	' CHASSIS A. '
17433	62316212			
17434	21331212			
17435	52233021		BCD	' CHANNELS 0=17 MUST BE CONNECTED BY CABLE W303'
17436	45452543			
17437	62120040			
17440	01071744			
17441	64626312			
17442	22251223			
17443	46454525			
17444	23632524			
17445	12227012			
17446	23212243			
17447	25126603			
17450	00031212			
17451	52314512		BCD	' IN SLOT A01 OF THE CTE=10. '

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17452	62434663			
17453	12210001			
17454	12462612			
17455	63302512			
17456	23632540			
17457	01003312			
17460	52233021		BCD	' CHANNELS 20=37 MUST BE CONNECTED BY CABLE W304'
17461	45452543			
17462	62120200			
17463	40030712			
17464	44646263			
17465	12222512			
17466	23464545			
17467	25236325			
17470	24122270			
17471	12232122			
17472	43251266			
17473	03000412			
17474	52314512		BCD	' IN SLOT A02 OF THE CTE=10. '
17475	62434663			
17476	12210002			
17477	12462612			
17500	63302512			
17501	23632540			
17502	01003312			
17503	52233021		BCD	' CHANNELS 40=57 MUST BE CONNECTED BY CABLE W305'
17504	45452543			
17505	62120400			
17506	40050712			
17507	44646263			
17510	12222512			
17511	23464545			
17512	25236325			
17513	24122270			
17514	12232122			
17515	43251266			

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17516	03000512		
17517	52314512	BCD	' IN SLOT A03 OF THE CTE=10.'
17520	62434463		
17521	12210003		
17522	12462612		
17523	63302512		
17524	23630540		
17525	01003312		
17526	52230021	BCD	' CHANNELS 60=77 MUST BE CONNECTED BY CABLE W305'
17527	45450543		
17530	62120600		
17531	40070712		
17532	44645563		
17533	12220512		
17534	23440045		
17535	25030025		
17536	24122070		
17537	12230022		
17540	43250066		
17541	03000512		
17542	52314512	BCD	' IN SLOT A04 OF THE CTE=10.'
17543	62434463		
17544	12210004		
17545	12462612		
17546	63302512		
17547	23630540		
17550	01003312		
17551	52250023	BCD	' EACH FUNCTION CORRESPONDS TO A CTE=11 UNIT.'
17552	30122464		
17553	45230031		
17554	46450023		
17555	46510025		
17556	02470045		
17557	24620063		
17560	46122112		
17561	23630540		

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17562	01011264		
17563	45316333		
17564	52630025	BCD	' THE CTE=11 LOOP TEST CARD MUST BE INSERTED '
17565	12230025		
17566	40010012		
17567	43464447		
17570	12630562		
17571	63122021		
17572	51240044		
17573	64620012		
17574	22250031		
17575	45422051		
17576	63250012		
17577	31450046	BCD	' INTO SLOT 3 '
17600	12624046		
17601	63120012		
17602	52462612	BCD	' OF THE CTE=11 UNITS TO BE TESTED. '
17603	63302012		
17604	23630540		
17605	01011264		
17606	45316362		
17607	12634412		
17610	22250063		
17611	25620025		
17612	24330012		
17613	52250023	BCD	' EACH FUNCTION WILL TEST FOR SKS, INTERRUPTS'
17614	30122464		
17615	45230031		
17616	46450026		
17617	31434012		
17620	63250063		
17621	12264451		
17622	12624062		
17623	73123145		
17624	63250051		
17625	64470062		

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 17626 12214524 BCD ' AND CORRECT DATA. ''
 17627 12234651
 17630 51252363
 17631 12242163
 17632 21333712

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*
 * FUNCTION PARAMETER TABLES
 *

17633	0 20 24112	PPT1	NOP	FIM1	FUNCTION IDENTIFIER MSG, ADDR.
17634	0 20 22654		NOP	FAM1	FUNCTION ABSTRACT MSG, ADDR.
17635	0 20 17642		NOP	FVM1	FUNCTION VARIABLE MSG, ADDR.
17636	0 01 17641		ONE	FVT1	
17637	0 00 04506		PZE	FUNC2	ADDRESS OF NEXT FUNCTION
17640	20000000		DATA	020000000	FUNCTION IDENTIFIER BIT
17641	0 00 00000	PVT1	PZE	0	FUNCTION VARIABLE TABLE
17642	52454612	FVM1	BCD	' NO VARIABLES ''	
17643	65215131				
17644	21224925				
17645	62523712				
* * *					
17646	0 20 24126	PPT2	NOP	FIM2	FUNCTION IDENTIFIER MSG, ADDR.
17647	0 20 22725		NOP	FAM2	FUNCTION ABSTRACT MSG, ADDR.
17650	0 20 17655		NOP	FVM2	FUNCTION VARIABLE MSG, ADDR.
17651	0 01 17654		ONE	FVT2	
17652	0 00 05177		PZE	FUNC3	ADDRESS OF NEXT FUNCTION
17653	10000000		DATA	010000000	FUNCTION IDENTIFIER BIT
17654	0 00 00000	PVT2	PZE	0	FUNCTION VARIABLE TABLE
17655	52454612	FVM2	BCD	' NO VARIABLES ''	
17656	65215131				
17657	21224925				
17660	62523712				
* * *					
17661	0 20 24142	PPT3	NOP	FIM3	FUNCTION IDENTIFIER MSG, ADDR.
17662	0 20 22776		NOP	FAM3	FUNCTION ABSTRACT MSG, ADDR.
17663	0 20 17670		NOP	FVM3	FUNCTION VARIABLE MSG, ADDR.
17664	0 01 17667		ONE	FVT3	
17665	0 00 05670		PZE	FUNC4	ADDRESS OF NEXT FUNCTION
17666	04000000		DATA	040000000	FUNCTION IDENTIFIER BIT
17667	0 00 00000	PVT3	PZE	0	FUNCTION VARIABLE TABLE
17670	52454612	FVM3	BCD	' NO VARIABLES ''	
17671	65215131				

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17672 21224325
17673 62523712

*
17674 0 20 24156 FPT4 NBP FIM4 FUNCTION IDENTIFIER MSG, ADDR.
17675 0 20 23450 NBP FAM4 FUNCTION ABSTRACT MSG, ADDR.
17676 0 20 17703 NBP FVM4 FUNCTION VARIABLE MSG, ADDR.
17677 0 01 17702 ONE FVT4
17700 0 00 06361 PZE FUNC5 ADDRESS OF NEXT FUNCTION
17701 00000000 DATA 02000000 FUNCTION IDENTIFIER BIT
17702 0 00 00000 FVT4 PZE 0 FUNCTION VARIABLE TABLE
17703 52454412 FVM4 BCD 1 NO VARIABLES !!
17704 65215131
17705 21224325
17706 62523712

*
17707 0 20 24172 FPT5 NBP FIM5 FUNCTION IDENTIFIER MSG, ADDR.
17710 0 20 23422 NBP FAM5 FUNCTION ABSTRACT MSG, ADDR.
17711 0 20 17716 NBP FVM5 FUNCTION VARIABLE MSG, ADDR.
17712 0 01 17715 ONE FVT5
17713 0 00 07057 PZE FUNC6 ADDRESS OF NEXT FUNCTION
17714 01000000 DATA 01000000 FUNCTION IDENTIFIER BIT
17715 0 00 00000 FVT5 PZE 0 FUNCTION VARIABLE TABLE
17716 52454412 FVM5 BCD 1 NO VARIABLES !!
17717 65215131
17720 21224325
17721 62523712

*
17722 0 20 24206 FPT6 NBP FIM6 FUNCTION IDENTIFIER MSG, ADDR.
17723 0 20 23474 NBP FAM6 FUNCTION ABSTRACT MSG, ADDR.
17724 0 20 17731 NBP FVM6 FUNCTION VARIABLE MSG, ADDR.
17725 0 01 17730 ONE FVT6
17726 0 00 07543 PZE FUNC7 ADDRESS OF NEXT FUNCTION
17727 00400000 DATA 00400000 FUNCTION IDENTIFIER BIT
17730 0 00 00000 FVT6 PZE 0 FUNCTION VARIABLE TABLE
17731 52454412 FVM6 BCD 1 NO VARIABLES !!
17732 65215131

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17733 21224325
17734 62523712

*
17735 0 20 24222 FPT7 NBP FIM7 FUNCTION IDENTIFIER MSG, ADDR.
17736 0 20 23246 NBP FAM7 FUNCTION ABSTRACT MSG, ADDR.
17737 0 20 17744 NBP FVM7 FUNCTION VARIABLE MSG, ADDR.
17740 0 01 17743 ONE FVT7
17741 0 00 10234 PZE FUNC8 ADDRESS OF NEXT FUNCTION
17742 00200000 DATA 00200000 FUNCTION IDENTIFIER BIT
17743 0 00 00000 FVT7 PZE 0 FUNCTION VARIABLE TABLE
17744 52454412 FVM7 BCD 1 NO VARIABLES !!
17745 65215131
17746 21224325
17747 62523712

*
17750 0 20 24236 FPT8 NBP FIM8 FUNCTION IDENTIFIER MSG, ADDR.
17751 0 20 23220 NBP FAM8 FUNCTION ABSTRACT MSG, ADDR.
17752 0 20 17757 NBP FVM8 FUNCTION VARIABLE MSG, ADDR.
17753 0 01 17756 ONE FVT8
17754 0 00 10725 PZE FUNC9 ADDRESS OF NEXT FUNCTION
17755 00100000 DATA 00100000 FUNCTION IDENTIFIER BIT
17756 0 00 00000 FVT8 PZE 0 FUNCTION VARIABLE TABLE
17757 52454412 FVM8 BCD 1 NO VARIABLES !!
17760 65215131
17761 21224325
17762 62523712

*
17763 0 20 24252 FPT9 NBP FIM9 FUNCTION IDENTIFIER MSG, ADDR.
17764 0 20 23372 NBP FAM9 FUNCTION ABSTRACT MSG, ADDR.
17765 0 20 17772 NBP FVM9 FUNCTION VARIABLE MSG, ADDR.
17766 0 01 17771 ONE FVT9
17767 0 00 11416 PZE FUNC10 ADDRESS OF NEXT FUNCTION
17770 00040000 DATA 00040000 FUNCTION IDENTIFIER BIT
17771 0 00 00000 FVT9 PZE 0 FUNCTION VARIABLE TABLE
17772 52454412 FVM9 BCD 1 NO VARIABLES !!
17773 65215131

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17774 21224325
17775 62523712

17776 0 20 24266 * FVT10 NOP FIM10 FUNCTION IDENTIFIER MSG, ADDR.
17777 0 20 23444 NOP FAM10 FUNCTION ABSTRACT MSG, ADDR.
20000 0 20 20005 NOP FVM10 FUNCTION VARIABLE MSG, ADDR.
20001 0 01 20004 ONE FVT10
20002 0 00 12107 PZE FUNC11 ADDRESS OF NEXT FUNCTION
20003 00020000 DATA 00020000 FUNCTION IDENTIFIER BIT
20004 0 00 00000 FVT10 PZE 0 FUNCTION VARIABLE TABLE
20005 52454612 FVM10 BCD ' NO VARIABLES !!
20006 65215131
20007 21224325
20010 62523712

20011 0 20 24302 * FVT11 NOP FIM11 FUNCTION IDENTIFIER MSG, ADDR.
20012 0 20 23516 NOP FAM11 FUNCTION ABSTRACT MSG, ADDR.
20013 0 20 20020 NOP FVM11 FUNCTION VARIABLE MSG, ADDR.
20014 0 01 20017 ONE FVT11
20015 0 00 12400 PZE FUNC12 ADDRESS OF NEXT FUNCTION
20016 00010000 DATA 00010000 FUNCTION IDENTIFIER BIT
20017 0 00 00000 FVT11 PZE 0 FUNCTION VARIABLE TABLE
20020 52454612 FVM11 BCD ' NO VARIABLES !!
20021 65215131
20022 21224325
20023 62523712

20024 0 20 24316 * FVT12 NOP FIM12 FUNCTION IDENTIFIER MSG, ADDR.
20025 0 20 23570 NOP FAM12 FUNCTION ABSTRACT MSG, ADDR.
20026 0 20 20033 NOP FVM12 FUNCTION VARIABLE MSG, ADDR.
20027 0 01 20032 ONE FVT12
20030 0 00 13271 PZE FUNC13 ADDRESS OF NEXT FUNCTION
20031 00004000 DATA 00004000 FUNCTION IDENTIFIER BIT
20032 0 00 00000 FVT12 PZE 0 FUNCTION VARIABLE TABLE
20033 52454612 FVM12 BCD ' NO VARIABLES !!
20034 65215131

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20035 21224325
20036 62523712

20037 0 20 24332 * FVT13 NOP FIM13 FUNCTION IDENTIFIER MSG, ADDR.
20040 0 20 23442 NOP FAM13 FUNCTION ABSTRACT MSG, ADDR.
20041 0 20 20046 NOP FVM13 FUNCTION VARIABLE MSG, ADDR.
20042 0 01 20045 ONE FVT13
20043 0 00 13762 PZE FUNC14 ADDRESS OF NEXT FUNCTION
20044 00002000 DATA 00002000 FUNCTION IDENTIFIER BIT
20045 0 00 00000 FVT13 PZE 0 FUNCTION VARIABLE TABLE
20046 52454612 FVM13 BCD ' NO VARIABLES !!
20047 65215131
20050 21224325
20051 62523712

20052 0 20 24346 * FVT14 NOP FIM14 FUNCTION IDENTIFIER MSG, ADDR.
20053 0 20 23714 NOP FAM14 FUNCTION ABSTRACT MSG, ADDR.
20054 0 20 20061 NOP FVM14 FUNCTION VARIABLE MSG, ADDR.
20055 0 01 20060 ONE FVT14
20056 0 00 14453 PZE FUNC15 ADDRESS OF NEXT FUNCTION
20057 00001000 DATA 00001000 FUNCTION IDENTIFIER BIT
20060 0 00 00000 FVT14 PZE 0 FUNCTION VARIABLE TABLE
20061 52454612 FVM14 BCD ' NO VARIABLES !!
20062 65215131
20063 21224325
20064 62523712

20065 0 20 24362 * FVT15 NOP FIM15 FUNCTION IDENTIFIER MSG, ADDR.
20066 0 20 23766 NOP FAM15 FUNCTION ABSTRACT MSG, ADDR.
20067 0 20 20074 NOP FVM15 FUNCTION VARIABLE MSG, ADDR.
20070 0 01 20073 ONE FVT15
20071 0 00 15144 PZE FUNC16 ADDRESS OF NEXT FUNCTION
20072 00000400 DATA 00000400 FUNCTION IDENTIFIER BIT
20073 0 00 00000 FVT15 PZE 0 FUNCTION VARIABLE TABLE
20074 52454612 FVM15 BCD ' NO VARIABLES !!
20075 65215131

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20076 21224225
20077 62523712

20100	0 20 24376	FPT16	NBP	FIM16	FUNCTION IDENTIFIER MSG, ADDR;
20101	0 20 24340		NBP	FAM16	FUNCTION ABSTRACT MSG, ADDR;
20102	0 20 24307		NBP	FV16	FUNCTION VARIABLE MSG, ADDR;
20103	0 01 24106		BNE	FVT16	
20104	0 00 11635		FZE	FIN1	
20105	00000000		DATA	00000200	FUNCTION IDENTIFIER BIT
20106	0 00 0 000	FVT16	PZE	0	FUNCTION VARIABLE TABLE
20107	52454412	FV16	BCD	' NH VARIABLES '	
20110	65215131				
20111	21224225				
20112	62523712				

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		*			
		*	VARIABLES		
		*			
20113	0 43 16121	BNL	BRM	BNBF06	ON INTERRUPT LINK
20114	0 43 16153	OFFL	BRM	BNBF18	OFF INTERRUPT LINK
20115	0 43 16220	CHNLNL	BRM	CHNL06	ON INTERRUPT LINK
20116	0 43 16255	CHNLFL	BRM	CHNL18	OFF INTERRUPT LINK
20117	0 43 16410	RECL	BRM	REC10	RECEIVE INTERRUPT LINK
20120	0 43 16501	XMITRL	BRM	XMIT06	RECEIVE INTERRUPT LINK
20121	0 43 16523	XMITXL	BRM	XMIT10	TRANSMIT INTERRUPT LINK
20122	0 43 16621	XMIT1R	BRM	XMT106	RECEIVE INTERRUPT LINK
20123	0 43 16654	XMIT1X	BRM	XMT110	TRANSMIT INTERRUPT LINK
20124	0 43 16752	XMITOR	BRM	XMT006	RECEIVE INTERRUPT LINK
20125	0 43 17005	XMITOX	BRM	XMT010	TRANSMIT INTERRUPT LINK
20126	0 43 17103	BVRNRL	BRM	BVRN06	RECEIVE INTERRUPT LINK
20127	0 43 17136	BVRNXL	BRM	BVRN10	TRANSMIT INTERRUPT LINK
20130	0 00 00000	ADDR	PZE		
20131	0 00 00000	COUNTR	PZE		
20132	0 00 00000	PIN401	PZE		
20133	0 00 00000	P0TA	PZE		
20134	0 00 00000	P0TD	PZE		
20135	0 00 00000	P0TX	PZE		
20136	0 00 00000	RFLAG	PZE		
20137	0 00 00000	XFLAG	PZE		
20140	0 00 00000	CHNLF	PZE		
20141	0 00 00000	CHNLN	PZE		
20142	2 40*36400	CC4	SKS*	036400,2	READY SKS
20143	2 40*36200	CF4	SKS*	036200,2	CHANNEL STATUS SKS
20144	2 40*37000	RE4	SKS*	037000,2	BUFFER EMPTY SKS
20145	0 00 00000	FLG940	PZE		

*
*
* MESSAGES

20146	4 20 20166	M01	NBP	M01A,4
20147	4 20 20220	M02	NBP	M02A,4
20150	4 20 20252	M03	NBP	M03A,4
20151	4 20 20304	M04	NBP	M04A,4
20152	4 20 20336	M05	NBP	M05A,4
20153	4 20 20370	M06	NBP	M06A,4
20154	4 20 20427	M07	NBP	M07A,4
20155	4 20 20454	M08	NBP	M08A,4
20156	4 20 20506	M09	NBP	M09A,4
20157	4 20 20540	M10	NBP	M10A,4
20160	4 20 20572	M11	NBP	M11A,4
20161	4 20 20624	M12	NBP	M12A,4
20162	4 20 20656	M13	NBP	M13A,4
20163	4 20 20710	M14	NBP	M14A,4
20164	4 20 20742	M15	NBP	M15A,4
20165	4 20 20774	M16	NBP	M16A,4

20166	52411262	M01A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 1 OF THE GROUP OF I
20167	30466443			
20170	24122225			
20171	12243151			
20172	25236325			
20173	24126346			
20174	12233021			
20175	62623162			
20176	12011246			
20177	26126330			
20200	25122751			
20201	46644712			
20202	46261212			
20203	52041223	BCD		I 4 CTE=113 CONNECTED BY W303 IN A01 OF THE CTE=10.11
20204	63254001			
20205	01621223			
20206	46454525			
20207	23632524			
20210	12227012			
20211	66030003			
20212	12314512			
20213	21000112			
20214	46261263			
20215	30251223			
20216	63254001			
20217	00333712			
20220	52411262	M02A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 2 OF THE GROUP OF I
20221	30466443			
20222	24122225			
20223	12243151			
20224	25236325			
20225	24126346			
20226	12233021			
20227	62623162			
20230	12021246			
20231	26126330			

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20232	25122751			
20233	46644712			
20234	46261263			
20235	52041223	BCD		I & CTE=11S CONNECTED BY W303 IN A01 OF THE CTE=10.11
20236	63254001			
20237	01621223			
20240	46454525			
20241	23632524			
20242	12227012			
20243	66030003			
20244	12314512			
20245	21000112			
20246	46261263			
20247	30251223			
20250	63254001			
20251	00333712			
20252	52411262	M03A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 3 OF THE GROUP OF I
20253	30466443			
20254	24122225			
20255	12243151			
20256	25236725			
20257	24126346			
20260	12233021			
20261	62623162			
20262	12041246			
20263	26126330			
20264	25122751			
20265	46644712			
20266	46261263			
20267	52041223	BCD		I & CTE=11S CONNECTED BY W303 IN A01 OF THE CTE=10.11
20270	63254001			
20271	01621223			
20272	46454525			
20273	23632524			
20274	12227012			
20275	66030003			

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20276	12314512			
20277	21000112			
20300	46261263			
20301	30251223			
20302	63254001			
20303	00333712			
20304	52411262	M04A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 4 OF THE GROUP OF I
20305	30466443			
20306	24122225			
20307	12243151			
20310	25236725			
20311	24126346			
20312	12233021			
20313	62623162			
20314	12041246			
20315	26126330			
20316	25122751			
20317	46644712			
20320	46261263			
20321	52041223	BCD		I & CTE=11S CONNECTED BY W303 IN A01 OF THE CTE=10.11
20322	63254001			
20323	01621223			
20324	46454525			
20325	23632524			
20326	12227012			
20327	66030003			
20330	12314512			
20331	21000112			
20332	46261263			
20333	30251223			
20334	63254001			
20335	00333712			
20336	52411262	M05A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 1 OF THE GROUP OF I
20337	30466443			
20340	24122225			
20341	12243151			

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20342	25236325		
20343	24126346		
20344	12233021		
20345	62623162		
20346	12011246		
20347	26126330		
20350	25122751		
20351	46644712		
20352	46261212		
20353	52041223	BCD	I * CTE=118 CONNECTED BY W304 IN A02 OF THE CTE=10.11
20354	63254001		
20355	01621223		
20356	46454525		
20357	23632524		
20360	12227012		
20361	66030004		
20362	12314512		
20363	21000212		
20364	46261263		
20365	30251223		
20366	63254001		
20367	00333712		
20370	52411262	M06A BCD	I J SHOULD BE DIRECTED TO CHASSIS 2 OF THE GROUP OF I
20371	30466443		
20372	24122225		
20373	12243151		
20374	25236325		
20375	24126346		
20376	12233021		
20377	62623162		
20400	12021246		
20401	26126330		
20402	25122751		
20403	46644712		
20404	46261212		
20405	52041223	BCD	I * CTE=118 CONNECTED BY W304 IN A02 OF THE CTE=10.11

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20406	63254001		
20407	01621223		
20410	46454525		
20411	23632524		
20412	12227012		
20413	66030004		
20414	12314512		
20415	21000212		
20416	46261263		
20417	30251223		
20420	63254001		
20421	00333712		
20422	52411262	M07A BCD	I J SHOULD BE DIRECTED TO CHASSIS 3 OF THE GROUP OF I
20423	30466443		
20424	24122225		
20425	12243151		
20426	25236325		
20427	24126346		
20430	12233021		
20431	62623162		
20432	12031246		
20433	26126330		
20434	25122751		
20435	46644712		
20436	46261212		
20437	52041223	BCD	I * CTE=118 CONNECTED BY W304 IN A02 OF THE CTE=10.11
20440	63254001		
20441	01621223		
20442	46454525		
20443	23632524		
20444	12227012		
20445	66030004		
20446	12314512		
20447	21000212		
20450	46261263		
20451	30251223		

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20452	63254001			
20453	00333712			
20454	52411262	M08A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 4 OF THE GROUP OF I
20455	30466443			
20456	24122225			
20457	12243151			
20458	25236325			
20459	24124346			
20460	12233021			
20461	62623162			
20462	12041246			
20463	26126330			
20464	25122751			
20465	46644712			
20466	46261212			
20467	52041223			
20468	63254001			
20469	01621223			
20470	46454525			
20471	23632524			
20472	12227012			
20473	66030005			
20474	12314512			
20475	21000312			
20476	46261263			
20477	30231223			
20500	63254001			
20501	52411262			
20502	30466443			
20503	24122225			
20504	12243151			
20505	25236325			
20506	24124346			
20507	12233021			
20508	62623162			
20509	12041246			
20510	26126330			
20511	25122751			
20512	46644712			
20513	46261212			
20514	52041223			
20515	63254001			

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20516	12011246			
20517	26126330			
20518	25122751			
20519	46644712			
20520	46261212			
20521	52041223			
20522	63254001			
20523	01621223			
20524	46454525			
20525	23632524			
20526	12227012			
20527	66030005			
20528	12314512			
20529	21000312			
20530	46261263			
20531	30231223			
20532	63254001			
20533	00333712			
20534	52411262	M10A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 2 OF THE GROUP OF I
20535	30466443			
20536	24122225			
20537	12243151			
20538	25236325			
20539	24124346			
20540	12233021			
20541	62623162			
20542	12021246			
20543	26126330			
20544	25122751			
20545	46644712			
20546	46261212			
20547	52041223			
20548	63254001			
20549	01621223			
20550	46454525			
20551	23632524			
20552	12227012			
20553	66030005			
20554	12314512			
20555	21000312			
20556	46261263			
20557	30231223			
20558	63254001			
20559	01621223			
20560	46454525			
20561	23632524			

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20562	12227012			
20563	66030005			
20564	12314512			
20565	21000312			
20566	46261263			
20567	30251223			
20570	63254001			
20571	00333712			
20572	52411262	M11A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 3 OF THE GROUP OF I
20573	30466443			
20574	24122225			
20575	12243151			
20576	25236325			
20577	24126346			
20600	12233021			
20601	62623162			
20602	12031246			
20603	26126330			
20604	25122751			
20605	46644712			
20606	46261212			
20607	52041223	BCD		I & CTE=118 CONNECTED BY W305 IN A03 OF THE CTE=10.11
20610	63254001			
20611	01621223			
20612	46454525			
20613	23632524			
20614	12227012			
20615	66030005			
20616	12314512			
20617	21000312			
20620	46261263			
20621	30251223			
20622	63254001			
20623	00333712			
20624	52411262	M12A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 4 OF THE GROUP OF I
20625	30466443			

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20626	24122225			
20627	12243151			
20630	25236325			
20631	24126346			
20632	12233021			
20633	62623162			
20634	12041246			
20635	26126330			
20636	25122751			
20637	46644712			
20640	46261212			
20641	52041223	BCD		I & CTE=118 CONNECTED BY W305 IN A03 OF THE CTE=10.11
20642	63254001			
20643	01621223			
20644	46454525			
20645	23632524			
20646	12227012			
20647	66030005			
20650	12314512			
20651	21000312			
20652	46261263			
20653	30251223			
20654	63254001			
20655	00333712			
20656	52411262	M12A	BCD	I J SHOULD BE DIRECTED TO CHASSIS 1 OF THE GROUP OF I
20657	30466443			
20660	24122225			
20661	12243151			
20662	25236325			
20663	24126346			
20664	12233021			
20665	62623162			
20666	12011246			
20667	26126330			
20670	25122751			
20671	46644712			

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20672	46261212			
20673	52041223	BCD		4 CTE=11S CONNECTED BY W305 IN A04 OF THE CTE=10.11
20674	63254001			
20675	01621223			
20676	46454525			
20677	23632524			
20700	12227012			
20701	66030005			
20702	12314512			
20703	21000412			
20704	46261263			
20705	30251223			
20706	63254001			
20707	00333712			
20710	52411262	M14A	BCD	J SHOULD BE DIRECTED TO CHASSIS 2 OF THE GROUP OF I
20711	30466443			
20712	24122225			
20713	12243151			
20714	25236325			
20715	24126346			
20716	12233021			
20717	62623162			
20720	12031246			
20721	26126330			
20722	25122751			
20723	46644712			
20724	46261212			
20725	52041223	BCD		4 CTE=11S CONNECTED BY W305 IN A04 OF THE CTE=10.11
20726	63254001			
20727	01621223			
20730	46454525			
20731	23632524			
20732	12227012			
20733	66030005			
20734	12314512			
20735	21000412			

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20736	46261263			
20737	30251223			
20740	63254001			
20741	00333712			
20742	52411262	M15A	BCD	J SHOULD BE DIRECTED TO CHASSIS 3 OF THE GROUP OF I
20743	30466443			
20744	24122225			
20745	12243151			
20746	25236325			
20747	24126346			
20750	12233021			
20751	62623162			
20752	12031246			
20753	26126330			
20754	25122751			
20755	46644712			
20756	46261212			
20757	52041223	BCD		4 CTE=11S CONNECTED BY W305 IN A04 OF THE CTE=10.11
20760	63254001			
20761	01621223			
20762	46454525			
20763	23632524			
20764	12227012			
20765	66030005			
20766	12314512			
20767	21000412			
20770	46261263			
20771	30251223			
20772	63254001			
20773	00333712			
20774	52411262	M16A	BCD	J SHOULD BE DIRECTED TO CHASSIS 4 OF THE GROUP OF I
20775	30466443			
20776	24122225			
20777	12243151			
21000	25236325			
21001	24126346			

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21002	12233021			
21003	62623162			
21004	12041246			
21005	26126330			
21006	25122751			
21007	46644712			
21010	46261212			
21011	52041223	BCD		' * CTE=118 CONNECTED BY W305 IN A04 OF THE CTE=10.11
21012	63254701			
21013	01621223			
21014	46454525			
21015	23632524			
21016	12227012			
21017	66030005			
21020	12314712			
21021	21000412			
21022	46261263			
21023	30251223			
21024	63254701			
21025	00333712			
21026	52233021	MSG1	BCD	' CHANNEL TESTS READY WHEN CHANNEL NOT ACTIVE !!
21027	45452543			
21030	12632562			
21031	63621751			
21032	25212470			
21033	12663025			
21034	45122330			
21035	21454525			
21036	43124546			
21037	63122123			
21040	63316525			
21041	52371212			
21042	52233021	MSG2	BCD	' CHANNEL TESTS NOT READY WHEN CHANNEL ACTIVE !!
21043	45452543			
21044	12632562			
21045	63621245			

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21046	46631251			
21047	25212470			
21050	12663025			
21051	45122330			
21052	21454525			
21053	43122123			
21054	63316525			
21055	52371212			
21056	52233021	MSG3	BCD	' CHANNEL STATUS TESTS ON WHEN CHANNEL NOT ACTIVE !!
21057	45452543			
21060	12626321			
21061	63646212			
21062	63256263			
21063	62124645			
21064	12663025			
21065	45122330			
21066	21454525			
21067	43124546			
21070	63122123			
21071	63316525			
21072	52371212			
21073	52233021	MSG4	BCD	' CHANNEL STATUS TESTS OFF WHEN CHANNEL ACTIVE !!
21074	45452543			
21075	12626321			
21076	63646212			
21077	63256263			
21100	62124626			
21101	26126630			
21102	25451223			
21103	30214545			
21104	25431221			
21105	23633165			
21106	25523712			
21107	52233021	MSG5	BCD	' CHANNEL STATUS TESTS OFF AFTER ON INTERRUPT !!
21110	45452543			
21111	12626321			

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21112	63646212			
21113	63256263			
21114	62124426			
21115	26122126			
21116	63255112			
21117	46451231			
21120	45632551			
21121	51644763			
21122	52371212			
21123	52233021	MSG6	BCD	CHANNEL STATUS TESTS ON AFTER OFF INTERRUPT !!
21124	45452543			
21125	12626321			
21126	63646212			
21127	63256263			
21130	62124445			
21131	12212663			
21132	25511246			
21133	26261231			
21134	45632551			
21135	51644763			
21136	52371212			
21137	52454412	MSG7	BCD	NO ON INTERRUPT RECEIVED !!
21140	46451231			
21141	45452551			
21142	51644763			
21143	12512623			
21144	25214625			
21145	24522712			
21146	52454412	MSG8	BCD	NO OFF INTERRUPT RECEIVED !!
21147	46262612			
21150	31454325			
21151	51516447			
21152	63125126			
21153	23253165			
21154	25245237			
21155	52474463	MSG9	BCD	POT AND PIN CHANNEL ADDRESS DIFFER !!

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21156	12214524			
21157	12473145			
21160	12233021			
21161	45452543			
21162	12212424			
21163	51256262			
21164	12243126			
21165	26255152			
21166	37121212			
21167	52226426	MSG10	BCD	BUFFER TESTS NOT EMPTY WITH NO CHARACTER XMISSION. !!
21170	26255112			
21171	63256263			
21172	62124446			
21173	63122544			
21174	47637012			
21175	66316330			
21176	12454612			
21177	23302151			
21200	21236325			
21201	51126744			
21202	31626231			
21203	46453352			
21204	37121212			
21205	52226426	MSG11	BCD	BUFFER TESTS EMPTY AFTER CHARACTER XMISSION. !!
21206	26255112			
21207	63256263			
21210	62122544			
21211	47637012			
21212	21266325			
21213	51122330			
21214	21512123			
21215	63255112			
21216	67443162			
21217	62314445			
21220	33523712			
21221	52454412	MSG12	BCD	NO RECEIVE INTERRUPT RECEIVED !!

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21222	51252325			
21223	31652512			
21224	31456325			
21225	51516447			
21226	63125125			
21227	23253165			
21230	25240237			
21231	52454612	MSG13	BCD	' NO RECEIVE NOR XMIT, INTERRUPT RECEIVED ''
21232	51252325			
21233	31652512			
21234	45465112			
21235	67443163			
21236	33123145			
21237	63255151			
21240	64476312			
21241	51252325			
21242	31652524			
21243	52371212			
21244	52454612	MSG14	BCD	' NO XMIT INTERRUPT RECEIVED ''
21245	67443163			
21246	12314563			
21247	25515164			
21250	47631251			
21251	25232531			
21252	65252452			
21253	37121212			
21254	52674431	MSG15	BCD	' XMIT, AND RECEIVED CHARACTER DIFFER ''
21255	63331221			
21256	45241251			
21257	25232531			
21260	65252412			
21261	23302151			
21262	21236325			
21263	51122431			
21264	26262551			
21265	52371212			

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21266	52466525	MSG16	BCD	' OVER-RUN BIT SET ON SINGLE CHARACTER XMISSION ''
21267	51405164			
21270	45122231			
21271	63126225			
21272	63124645			
21273	12623145			
21274	27432512			
21275	23302151			
21276	21236325			
21277	51126744			
21300	31626231			
21301	46455237			
21302	52232401	MSG101A	BCD	' CD17,CD18,CD19,CD20=A12 CD21,CD22,CD23=A27 '
21303	07732324			
21304	01107323			
21305	24011173			
21306	23240200			
21307	40210102			
21310	12232402			
21311	01732324			
21312	02027323			
21313	24020340			
21314	21020712			
21315	62230000	BCD		' SC00,SC01,SC02=A20 '
21316	73622300			
21317	01736223			
21320	00024021			
21321	02001212			
21322	52622300	BCD		' SC03,SC04,SC05,SC06=A21 SCC,PTPN,RTI=A22 A, '
21323	03736223			
21324	00047362			
21325	23000573			
21326	62230006			
21327	40210201			
21330	12622323			
21331	73476347			

CTE	TAP=3.0	01/22	08111	PAGE 373
21332	45735163			
21333	31402102			
21334	02122173			
21335	22735546		BCD	'B,E0MF=A25 Q02=A27 DRP=A9 CRT1=A22,A27 ''
21336	44264021			
21337	02051250			
21340	50024021			
21341	02071224			
21342	51474021			
21343	11122351			
21344	63314021			
21345	02027321			
21346	02071237			
21347	52212451	*0102	BCD	' ADRO,ADR1,ADR2,ADR3=A16 ADR4,ADR5,ADR6=A13 '
21350	00730124			
21351	51017321			
21352	24510273			
21353	21245103			
21354	40210106			
21355	12212451			
21356	04732124			
21357	51057321			
21360	24510440			
21361	21010112			
21362	62240000		BCD	'SD00,GD00,L000=A15 GA00=A12 CA00=A14'
21363	73274000			
21364	00730324			
21365	00004021			
21366	01051027			
21367	21000040			
21370	21010212			
21371	23210000			
21372	40210104			
21373	50627023		BCD	' SSC=A16 SKS=A22 CC4=A5 CSKS=A18 CPT1=A23 PS'
21374	40210106			
21375	12624062			

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21376	40210202			
21377	12232304			
21400	40210512			
21401	23624262			
21402	40210110			
21403	12234763			
21404	01402102			
21405	03124762			
21406	42402101		BCD	'K=A16,A27' ''
21407	06732102			
21410	07371212			
21411	52272100	*001	BCD	' GA0=J7 CHS0=J7 CC4=J9' ''
21412	40410712			
21413	23306200			
21414	40410712			
21415	23230440			
21416	41113712			
21417	52272101	*101	BCD	' GA1=J7 CHS1=J7 CC4=J9' ''
21420	40410712			
21421	23306201			
21422	40410712			
21423	23230440			
21424	41113712			
21425	52272102	*201	BCD	' GA2=J7 CHS2=J7 CC4=J9' ''
21426	40410712			
21427	23306202			
21430	40410712			
21431	23230440			
21432	41113712			
21433	52272103	*301	BCD	' GA3=J7 CHS3=J7 CC4=J9' ''
21434	40410712			
21435	23306203			
21436	40410712			
21437	23230440			
21440	41113712			
21441	52230001	*0103A	BCD	' C010=A11 BD10=A9,A10 PSK=A9,A10 CP0T=A5,A6 ''

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21442	00402101		
21443	01122224		
21444	01004021		
21445	11732101		
21446	00124782		
21447	42402111		
21450	73210100		
21451	12234746		
21452	63402105		
21453	73210612		
21454	23476302	BCD	'CPT2=A9,A10 CPT=A20 PBT1=A11 QG12=A6,A11'
21455	40211173		
21456	21010012		
21457	23476340		
21460	21020012		
21461	47466301		
21462	40210101		
21463	52505001		
21464	02402106		
21465	73210101		
21466	12505001	BCD	'QG1=A14 CBN4=A6 ICBN=A26 CC=A27 RT13=A22'
21467	40210104		
21470	12234645		
21471	04402106		
21472	12317346		
21473	45402102		
21474	06122323		
21475	40210207		
21476	12516331		
21477	03402102		
21500	02371212		
21501	52232300	*002 BCD	'CC0=J14 RT03,RT13=J8 CS0=J17 CBN0=J16 CPBT=1'
21502	40410104		
21503	12516300		
21504	03735163		
21505	31034041		

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21506	10122362		
21507	00404101		
21510	07122346		
21511	45004041		
21512	01061223		
21513	47466340		
21514	41075223	BCD	'J7 CP0=J12 BD10=J9,J10 CD0=J17,J4 CBN4=J9'
21515	47004041		
21516	01021222		
21517	24010040		
21520	41117341		
21521	01001223		
21522	24004041		
21523	01077341		
21524	04122346		
21525	45044041		
21526	11371212		
21527	52232301	*102 BCD	'CC1=J14 RT13,RT13=J8 CS1=J22 CBN1=J21 CPBT=1'
21530	40410104		
21531	12516301		
21532	03735163		
21533	31034041		
21534	10122362		
21535	01404102		
21536	02122346		
21537	45014041		
21540	02011223		
21541	47466340		
21542	41075223	BCD	'J7 CP1=J12 BD10=J9,J10 CD1=J22,J4 CBN4=J9'
21543	47014041		
21544	01021222		
21545	24010040		
21546	41117341		
21547	01001223		
21550	24014041		
21551	02027341		

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21552	04122346			
21553	45044041			
21554	11371212			
21555	52232302	M202	BCD	' CC2=J14 RT23,RT13=J8 CS2=J27 C6N2=J26 CP8T=1
21556	40411004			
21557	12516302			
21560	03735163			
21561	31034041			
21562	10122362			
21563	02404102			
21564	07122346			
21565	45034041			
21566	02061223			
21567	47466340			
21570	41071223	BCD		' J7 CP2=J12 BD10=J9,J10 CD2=J27,J4 C6N4=J91
21571	47024041			
21572	01021222			
21573	24010040			
21574	41117341			
21575	01001223			
21576	24024041			
21577	02077341			
21600	04122346			
21601	45044041			
21602	11371212			
21603	52232303	M302	BCD	' CC3=J14 RT33,RT13=J8 CS3=J32 C6N3=J32 CP8T=1
21604	40411004			
21605	12516303			
21606	03735163			
21607	31034041			
21610	10122362			
21611	03404103			
21612	02122346			
21613	45034041			
21614	03021223			
21615	47466340			

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21616	41075223		BCD	' J7 CP3=J12 BD10=J9,J10 CD3=J32,J4 C6N4=J11
21617	47034041			
21620	01021222			
21621	24010040			
21622	41117341			
21623	01001223			
21624	24034041			
21625	03027341			
21626	04122346			
21627	45044041			
21630	34371212			
21631	52234626	M0103	BCD	' C6F4=A6 IC6F=A261
21632	04402106			
21633	12312346			
21634	26402102			
21635	06371212			
21636	52234626	M003	BCD	' C6F0=J16 CD0=J17,J14 C6F4=J91
21637	00404101			
21640	06122324			
21641	00404101			
21642	07734101			
21643	04122346			
21644	26044041			
21645	11371212			
21646	52234626	M103	BCD	' C6F1=J21 CD1=J22,J14 C6F4=J91
21647	01404102			
21650	01122324			
21651	01404102			
21652	02734101			
21653	04122346			
21654	26044041			
21655	11371212			
21656	52234626	M203	BCD	' C6F2=J26 CD2=J27,J14 C6F4=J91
21657	02404102			
21660	06122324			
21661	02404102			

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21662	07734101				
21663	04122346				
21664	26044041				
21665	11371212				
21666	52232626	M303	BCD	' C0F3=J31 CD3=J32,J14 C0F4=J91 '	
21667	03404103				
21670	01122324				
21671	03404103				
21672	02734101				
21673	04122346				
21674	26044041				
21675	11371212				
21676	52232604	M0104	BCD	' CF4=A511 '	
21677	40210537				
21700	52232604	M004	BCD	' CF4=J9 CF0=J31 '	
21701	40411112				
21702	23260040				
21703	41033712				
21704	52232604	M104	BCD	' CF4=J9 CF1=J31 '	
21705	40411112				
21706	23260140				
21707	41033712				
21710	52232604	M204	BCD	' CF4=J9 CF2=J31 '	
21711	40411112				
21712	23260240				
21713	41033712				
21714	52232604	M304	BCD	' CF4=J9 CF3=J31 '	
21715	40411112				
21716	23260340				
21717	41033712				
21720	52312346	M0106	BCD	' IC0N=A26,A27 C0N4=A6 CC=A27 RTI3=A22,A14 CRTI=A221 '	
21721	45402102				
21722	06732102				
21723	07122346				
21724	45044021				
21725	06122323				

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21726	40210207				
21727	12516331				
21730	03402102				
21731	02732101				
21732	04122351				
21733	63314021				
21734	02023712				
21735	52312346	M0108	BCD	' IC0F=A26,A27 C0F4=A6 CC=A27 RTI3=A22,A14 CRTI=A221 '	
21736	26402102				
21737	06732102				
21740	07122346				
21741	26044021				
21742	06122323				
21743	40210207				
21744	12516331				
21745	03402102				
21746	02732101				
21747	04122351				
21750	63314021				
21751	02023712				
21752	52212451	M0111	BCD	' ADRO,ADR1,ADR2,ADR3=A16 ADR4,ADR5,ADR6=A13 '	
21753	00732124				
21754	51017321				
21755	24510273				
21756	21245103				
21757	40210106				
21760	12212451				
21761	04732124				
21762	51057321				
21763	24510640				
21764	21010312				
21765	62240000	BCD		' 8D00,8D00,L000=A15 8A00=A12 CA00=A14 '	
21766	72272400				
21767	00734324				
21770	00004021				
21771	01051227				

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21772	21000040			
21773	21010012			
21774	23210000			
21775	40210104			
21776	52234763	BCD	'	CPT1=A23 PSK=A16,A27'
21777	01400102			
22000	03124762			
22001	42400101			
22002	06732102			
22003	07371212			
22004	52222504	*0114 BCD	'	BE4,BE14=A5 BD00,BD01,BD02,BD03,BD04,BD05,BD06'
22005	73222531			
22006	04402105			
22007	12222400			
22010	00732224			
22011	00017322			
22012	24000273			
22013	22240003			
22014	73222400			
22015	04732224			
22016	00057322			
22017	24000673			
22020	22240007	BCD	'	BD07,BD08=A9,A10 C008=A11 CPT2=A9,A10'
22021	73222400			
22022	10402111			
22023	73210100			
22024	12230000			
22025	10400101			
22026	01122247			
22027	63024121			
22030	11730101			
22031	00121212			
22032	52505001	BCD	'	Q012=A11 Q01=A14 CPT=A20 Q02=A27'
22033	02402101			
22034	01125150			
22035	01402101			

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22036	04122247			
22037	63402102			
22040	00125050			
22041	02402102			
22042	07121237			
22043	52223125	*005 BCD	'	RIE0=J9,J17 BE0=J14 CP0=J12 BD09=J12 BE18=J14 B'
22044	00404111			
22045	73410107			
22046	12222500			
22047	40410104			
22050	12234700			
22051	40410102			
22052	12222400			
22053	11404101			
22054	02122225			
22055	31464041			
22056	01041222			
22057	25310440	BCD	'	E14=J9 BSC=J9'
22060	41111222			
22061	02234041			
22062	11121212			
22063	52220000	BCD	'	B000,B001,B002,B003,B004,B005,B006,B007=J15'
22064	00732200			
22065	00017322			
22066	00000273			
22067	22000003			
22070	73220000			
22071	04732200			
22072	00057322			
22073	00000673			
22074	22000007			
22075	40410105			
22076	12224347	BCD	'	RLP0=J14,J16,J8'
22077	00404101			
22100	04734101			
22101	06734110			

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22102	37121212			
22103	52223125	M105	BCD	' B1E1=J9,J22 B1E1=J19 CP1=J17 BD09=J12 B1E1=J19 B'
22104	01404111			
22105	73410202			
22106	12222501			
22107	40410111			
22110	12234701			
22111	40410107			
22112	12222400			
22113	11404101			
22114	02122225			
22115	31014041			
22116	01111222			
22117	25310440	BCD		'E14=J9 BSC=J9'
22120	41111222			
22121	62234041			
22122	11121212			
22123	52220100	BCD		' B100,B101,B102,B103,B104,B105,B106,B107=J20'
22124	00732201			
22125	00017322			
22126	0100073			
22127	22010003			
22130	73220100			
22131	04732201			
22132	00057322			
22133	01000673			
22134	22010007			
22135	40410200			
22136	12224347	BCD		' BLP1=J19,J21,J8'
22137	01404101			
22140	11734102			
22141	01734110			
22142	37121212			
22143	52223125	M205	BCD	' B1E2=J9,J27 B1E2=J24 CP2=J22 BD09=J12 B1E2=J24 B'
22144	02404111			
22145	73410207			

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22146	12222502			
22147	40410204			
22150	12234702			
22151	40410202			
22152	12222400			
22153	11404101			
22154	02122225			
22155	31024041			
22156	02041222			
22157	25310440	BCD		'E14=J9 BSC=J9'
22160	41111222			
22161	62234041			
22162	11121212			
22163	52220200	BCD		' B200,B201,B202,B203,B204,B205,B206,B207=J25'
22164	00732202			
22165	00017322			
22166	02000273			
22167	22020003			
22170	73220200			
22171	04732202			
22172	00057322			
22173	02000673			
22174	22020007			
22175	40410205			
22176	12224347	BCD		' BLP2=J24,J26,J8'
22177	02404102			
22200	04734102			
22201	06734110			
22202	37121212			
22203	52223125	M305	BCD	' B1E3=J9,J32 B1E3=J29 CP3=J27 BD09=J12 B1E3=J29 B'
22204	03404111			
22205	73410302			
22206	12222503			
22207	40410211			
22210	12234703			
22211	40410207			

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22212	12227400			
22213	11404101			
22214	02122225			
22215	31034041			
22216	02111222			
22217	25310440		BCD	'E14=J9 BSC=J9'
22220	41111222			
22221	62234041			
22222	11121212			
22223	52227300		BCD	'B300,B301,B302,B303,B304,B305,B306,B307=J30'
22224	00737203			
22225	00017322			
22226	03000273			
22227	22030003			
22230	73220300			
22231	04732203			
22232	00057322			
22233	03000673			
22234	22030007			
22235	40410300			
22236	12224347		BCD	'BLP2=J29,J31,J8'
22237	02404102			
22240	11734103			
22241	01734110			
22242	37121212			
22243	52312751	M0116	BCD	'ICRC=A16 IREC=A26 RCR4=A27''
22244	23402101			
22245	06123151			
22246	25234021			
22247	02041251			
22250	23510440			
22251	21020737			
22252	52233062	M006	BCD	'CHS0=J7 RTI1,BD10=J10 RCR4=J12,J13''
22253	00404107			
22254	12516331			
22255	01732224			

CTE	TAP=3.C	01/22	08:11	PAGE 386
22256	01004041			
22257	01001251			
22260	23510440			
22261	41010273			
22262	41010337			
22263	52233062	M106	BCD	'CHS1=J7 RTI1,BD10=J10 RCR4=J12,J13''
22264	01404107			
22265	12516331			
22266	01732224			
22267	01004041			
22270	01001251			
22271	23510440			
22272	41010273			
22273	41010337			
22274	52233062	M206	BCD	'CHS2=J7 RTI1,BD10=J10 RCR4=J12,J28''
22275	02404107			
22276	12516331			
22277	01732224			
22300	01004041			
22301	01001251			
22302	23510440			
22303	41010273			
22304	41021037			
22305	52233062	M306	BCD	'CHS3=J7 RTI1,BD10=J10 RCR4=J12,J28''
22306	03404107			
22307	12516331			
22310	01732224			
22311	01004041			
22312	01001251			
22313	23510440			
22314	41010273			
22315	41021037			
22316	52316245	M0117	BCD	'ISND=A27 BEI4=A6'
22317	24402102			
22320	07122225			
22321	31044021			

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22322	06371212			
22323	52222531	M007	BCD	' BE14=J9 CH80=J7 BE10=J14 BIE0=J9,J17 BDO9=J12 C'
22324	04404111			
22325	12233062			
22326	00404107			
22327	12222531			
22330	00404101			
22331	04122231			
22332	25004041			
22333	11734101			
22334	07122224			
22335	00114041			
22336	01021223			
22337	47004041			
22340	01021222		BCD	' P0=J12 B99=J14 ' '
22341	25444041			
22342	01043712			
22343	52222531	M107	BCD	' BE14=J9 CH81=J7 BE11=J19 BIE1=J9,J22 BDO9=J12 C'
22344	04404111			
22345	12233062			
22346	01404107			
22347	12222531			
22350	01404101			
22351	11122231			
22352	25014041			
22353	11734102			
22354	02122224			
22355	00114041			
22356	01021223			
22357	47014041		BCD	' P1=J12 BE1=J19 ' '
22360	01021222			
22361	25014041			
22362	01113712			
22363	52222531	M207	BCD	' BE14=J9 CH82=J7 BE12=J24 BIE2=J9,J27 BDO9=J12 C'
22364	04404111			
22365	12233062			

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22366	02404107			
22367	12222531			
22370	02404102			
22371	04122231			
22372	25024041			
22373	11734102			
22374	07122224			
22375	00114041			
22376	01021223			
22377	47024041		BCD	' P2=J12 BE2=J24 ' '
22400	01021222			
22401	25024041			
22402	02043712			
22403	52222531	M307	BCD	' BE14=J9 CH83=J7 BE13=J29 BIE3=J9,J32 BDO9=J12 C'
22404	04404111			
22405	12233062			
22406	03404107			
22407	12222531			
22410	03404102			
22411	11122231			
22412	25034041			
22413	11734103			
22414	02122224			
22415	00114041			
22416	01021223			
22417	47034041		BCD	' P3=J12 BE3=J29 ' '
22420	01021222			
22421	25034041			
22422	02113712			
22423	52233021	M0118	BCD	' CHAR=A12 RDO0,RDO1,RDO2,RDO3,RDO4,RDO5 ' '
22424	51402101			
22425	02125124			
22426	00007331			
22427	24000173			
22430	51240002			
22431	73512400			

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22432	03735124		
22433	00047351		
22434	24000473		
22435	51240006	BCD	'RD06,RD07=A5 TFO=A22,A25'
22436	73512400		
22437	07402105		
22440	12632400		
22441	40210202		
22442	73210205		
22443	52222400	BCD	'CD00,CD01,CD02,CD03,CD04,CD05,CD06,CD07'
22444	00732324		
22445	00017323		
22446	24000273		
22447	23240003		
22450	73232400		
22451	04732324		
22452	00057323		
22453	24000473		
22454	23240107		
22455	40210437	M008 BCD	'A6''
22456	52222200	BCD	'BB0=J8,J10 CHS0=J7 RT11,BD10,TFO=J10'
22457	40411073		
22460	41010712		
22461	23306200		
22462	40410712		
22463	51633101		
22464	73222401		
22465	00736326		
22466	00404101		
22467	00121212		
22470	52512400	BCD	'RD00,RD01,RD02,RD03,RD04,RD05,RD06,RD07'
22471	00735124		
22472	00017351		
22473	24000273		
22474	51240003		
22475	73512400		

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22476	04735124		
22477	00057351		
22500	24000473		
22501	51240007		
22502	40410102	BCD	'J12,J13''
22503	73410103		
22504	12121237		
22505	52222201	M108 BCD	'BB1=J8,J10 CHS1=J7 RT11,BD10,TFO=J10'
22506	40411073		
22507	41010012		
22510	23306201		
22511	40410712		
22512	51633101		
22513	73222401		
22514	00736326		
22515	00404101		
22516	00121212		
22517	52512400	BCD	'RD00,RD01,RD02,RD03,RD04,RD05,RD06,RD07'
22520	00735124		
22521	00017351		
22522	24000273		
22523	51240003		
22524	73512400		
22525	04735124		
22526	00057351		
22527	24000673		
22530	51240007		
22531	40410102	BCD	'J12,J13''
22532	73410103		
22533	12121212		
22534	37121212		
22535	52222202	M208 BCD	'BB2=J8,J10 CHS2=J7 RT11,BD10,TFO=J10'
22536	40411073		
22537	41010012		
22540	23306202		
22541	40410712		

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22542	51633101		
22543	73222401		
22544	00736326		
22545	00404101		
22546	00121212		
22547	52512400	BCD	' RD00,RD01,RD02,RD03,RD04,RD05,RD06,RD07'
22550	00735124		
22551	00017351		
22552	24000273		
22553	51240003		
22554	73512400		
22555	04735124		
22556	00057351		
22557	24000673		
22560	51240007		
22561	40410102	BCD	' J12,J13 ''
22562	73410103		
22563	12121237		
22564	52222203	M308 BCD	' BB3=J8,J10 CH83=J7 RT11,BD10,TF0=J10 '
22565	40411073		
22566	41010012		
22567	23306203		
22570	40410712		
22571	51633101		
22572	73222401		
22573	00736326		
22574	00404101		
22575	00121212		
22576	52512400	BCD	' RD00,RD01,RD02,RD03,RD04,RD05,RD06,RD07'
22577	00735124		
22600	00017351		
22601	24000273		
22602	51240003		
22603	73512400		
22604	04735124		
22605	00057351		

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22606	24000673		
22607	51240007		
22610	40410102	BCD	' J12,J13 ''
22611	73410103		
22612	12121237		
22613	52233021	M018 BCD	' CHAR=A12 RD08=A5 OCD08=A18 CDO8=A6''
22614	51402101		
22615	02125124		
22616	00104021		
22617	05120023		
22620	24001040		
22621	21011012		
22622	23240013		
22623	40210637		
22624	52516331	M009 BCD	' RT11,BD10=J10 CH80=J7 ''
22625	01732224		
22626	01004041		
22627	01001223		
22630	30620040		
22631	41071237		
22632	52516331	M109 BCD	' RT11,BD10=J10 CH81=J7 ''
22633	01732224		
22634	01004041		
22635	01001223		
22636	30620140		
22637	41071237		
22640	52516331	M209 BCD	' RT11,BD10=J10 CH82=J7 ''
22641	01732224		
22642	01004041		
22643	01001223		
22644	30620240		
22645	41071237		
22646	52516331	M309 BCD	' RT11,BD10=J10 CH83=J7 ''
22647	01732224		
22650	01004041		
22651	01001223		

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22652	30620340			
22653	41071237			
22654	52326330	FAM1	BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 1.'
22655	31621226			
22656	64452363			
22657	31464512			
22660	23302523			
22661	42621263			
22662	30251223			
22663	63254001			
22664	00610101			
22665	12233021			
22666	62623162			
22667	12017312			
22670	52234645	BCD		' CONNECTED BY CABLE W303 IN A01 SLOT OF THE CTE=10.'
22671	45252363			
22672	25241222			
22673	70122321			
22674	22432512			
22675	66030003			
22676	12314512			
22677	21000112			
22700	62434663			
22701	12462612			
22702	63322512			
22703	23632540			
22704	01003312			
22705	12523163	BCD		' IT ASSUMES THAT CHANNELS 0-3 ARE CONNECTED.'
22706	12216262			
22707	64442562			
22710	12633021			
22711	63122330			
22712	21454525			
22713	43621200			
22714	40031221			
22715	51251223			

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22716	46454525			
22717	23632524			
22720	52634612	BCD		' TO THIS CHASSIS.'
22721	63303162			
22722	12233021			
22723	62623162			
22724	33371212			
22725	52326330	FAM2	BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 2.'
22726	31621226			
22727	64452363			
22730	31464512			
22731	23302523			
22732	42621263			
22733	30251223			
22734	63254001			
22735	00610101			
22736	12233021			
22737	62623162			
22740	12027312			
22741	52234645	BCD		' CONNECTED BY CABLE W303 IN A01 SLOT OF THE CTE=10.'
22742	45252363			
22743	25241222			
22744	70122321			
22745	22432512			
22746	66030003			
22747	12314512			
22750	21000112			
22751	62434663			
22752	12462612			
22753	63302512			
22754	23632540			
22755	01003312			
22756	12523163	BCD		' IT ASSUMES THAT CHANNELS 4-7 ARE CONNECTED.'
22757	12216262			
22760	64442562			
22761	12633021			

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22762	63122330		
22763	21454525		
22764	43621204		
22765	40071221		
22766	51251223		
22767	46454525		
22770	23632524		
22771	52634612	BCD	' TO THIS CHASSIS.!!
22772	63303162		
22773	12233021		
22774	62623162		
22775	33371212		
22776	52326330	FAMS BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 3.!
22777	31621226		
23000	64452363		
23001	31464512		
23002	23302523		
23003	42621263		
23004	30251223		
23005	63254001		
23006	00610101		
23007	12233021		
23010	62623162		
23011	12037312		
23012	52234445	BCD	' CONNECTED BY CABLE W303 IN A01 SLOT OF THE CTE=10.!
23013	45252363		
23014	25241222		
23015	70122321		
23016	22432512		
23017	66030003		
23020	12314512		
23021	21000112		
23022	62434663		
23023	12462612		
23024	63302512		
23025	23632540		

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23026	01003312		
23027	12523163	BCD	' IT ASSUMES THAT CHANNELS 10-13 ARE CONNECTED!
23030	12216262		
23031	64442562		
23032	12633021		
23033	63122330		
23034	21454525		
23035	43621201		
23036	00400103		
23037	12215125		
23040	12234645		
23041	45252363		
23042	25241212		
23043	52634612	BCD	' TO THIS CHASSIS.!!
23044	63303162		
23045	12233021		
23046	62623162		
23047	33371212		
23050	52326330	FAMS BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 4.!
23051	31621226		
23052	64452363		
23053	31464512		
23054	23302523		
23055	42621263		
23056	30251223		
23057	63254001		
23060	00610101		
23061	12233021		
23062	62623162		
23063	12047312		
23064	52234645	BCD	' CONNECTED BY CABLE W303 IN A01 SLOT OF THE CTE=10.!
23065	45252363		
23066	25241222		
23067	70122321		
23070	22432512		
23071	66030003		

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23072	12314512		
23073	21000112		
23074	62434663		
23075	12462612		
23076	63302512		
23077	23632540		
23100	01003312		
23101	12523163	BCD	' IT ASSUMES THAT CHANNELS 16-17 ARE CONNECTED'
23102	12216262		
23103	64442562		
23104	12633021		
23105	63122330		
23106	21454525		
23107	43621201		
23110	04400107		
23111	12215125		
23112	12234445		
23113	45252363		
23114	25241212		
23115	52634412	BCD	' TO THIS CHASSIS, ''
23116	63303162		
23117	12233021		
23120	62623162		
23121	33371212		
23122	52326330	FAM5 BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 1, '
23123	31621226		
23124	64452363		
23125	31464512		
23126	23302523		
23127	42621263		
23130	30251223		
23131	63254201		
23132	00610101		
23133	12233021		
23134	62623162		
23135	12017312		

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23136	52234445	BCD	' CONNECTED BY CABLE W304 IN A02 SLOT OF THE CTE=10, '
23137	45252363		
23140	25241222		
23141	70122321		
23142	22432512		
23143	66030004		
23144	12314512		
23145	21000212		
23146	62434663		
23147	12462612		
23150	63302512		
23151	23632540		
23152	01003312		
23153	12523163	BCD	' IT ASSUMES THAT CHANNELS 20-23 ARE CONNECTED'
23154	12216262		
23155	64442562		
23156	12633021		
23157	63122330		
23160	21454525		
23161	43621202		
23162	00400203		
23163	12215125		
23164	12234445		
23165	45252363		
23166	25241212		
23167	52634412	BCD	' TO THIS CHASSIS, ''
23170	63303162		
23171	12233021		
23172	62623162		
23173	33371212		
23174	52326330	FAM6 BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 2, '
23175	31621226		
23176	64452363		
23177	31464512		
23200	23302523		
23201	42621263		

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23202	30251223			
23203	63254001			
23204	00610101			
23205	12233021			
23206	62623162			
23207	12027312			
23210	52234645	BCD		CONNECTED BY CABLE W304 IN A02 SLOT OF THE CTE=10.1
23211	45252363			
23212	25241222			
23213	70122321			
23214	22432512			
23215	66030004			
23216	12314512			
23217	21000212			
23220	62434663			
23221	12462612			
23222	63302512			
23223	23632540			
23224	01003312			
23225	12523163	BCD		IT ASSUMES THAT CHANNELS 24=27 ARE CONNECTED!
23226	12216262			
23227	64442562			
23230	12633021			
23231	63122330			
23232	21454525			
23233	43621202			
23234	04400207			
23235	12215125			
23236	12234645			
23237	45252363			
23240	25241212			
23241	52634612	BCD		TO THIS CHASSIS.!!
23242	63303162			
23243	12233021			
23244	62623162			
23245	33371212			

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23246	52326330	FAM7	BCD	THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 3.1
23247	31621226			
23250	64452363			
23251	31464512			
23252	23302523			
23253	42621263			
23254	30251223			
23255	63254001			
23256	00610101			
23257	12233021			
23260	62623162			
23261	12037312			
23262	52234645	BCD		CONNECTED BY CABLE W304 IN A02 SLOT OF THE CTE=10.1
23263	45252363			
23264	25241222			
23265	70122321			
23266	22432512			
23267	66030004			
23270	12314512			
23271	21000212			
23272	62434663			
23273	12462612			
23274	63302512			
23275	23632540			
23276	01003312			
23277	12523163	BCD		IT ASSUMES THAT CHANNELS 30=33 ARE CONNECTED!
23300	12216262			
23301	64442562			
23302	12633021			
23303	63122330			
23304	21454525			
23305	43621203			
23306	00400303			
23307	12215125			
23310	12234645			
23311	45252363			

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23312	25241212		
23313	52634612	BCD	' TO THIS CHASSIS.1'
23314	63303162		
23315	12233021		
23316	62623162		
23317	33371212		
23320	52326330	FAMS BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 4.1'
23321	31621226		
23322	64452363		
23323	31464512		
23324	23302523		
23325	42621263		
23326	30251223		
23327	63254001		
23330	00610101		
23331	12233021		
23332	62623162		
23333	12047312		
23334	52234645	BCD	' CONNECTED BY CABLE W304 IN A02 SLOT OF THE CTE=10.1'
23335	45252363		
23336	25241222		
23337	70122321		
23340	22432512		
23341	66030004		
23342	12314512		
23343	21000212		
23344	62434663		
23345	12462412		
23346	63302512		
23347	23632540		
23350	01003312		
23351	12523163	BCD	' IT ASSUMES THAT CHANNELS 34-37 ARE CONNECTED.'
23352	12216262		
23353	64442562		
23354	12633021		
23355	63122330		

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23356	21454525		
23357	43621203		
23360	04400307		
23361	12215125		
23362	12234645		
23363	45252363		
23364	25241212		
23365	52634612	BCD	' TO THIS CHASSIS.1'
23366	63303162		
23367	12233021		
23370	62623162		
23371	33371212		
23372	52326330	FAMS BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 1.1'
23373	31621226		
23374	64452363		
23375	31464512		
23376	23302523		
23377	42621263		
23400	30251223		
23401	63254001		
23402	00610101		
23403	12233021		
23404	62623162		
23405	12017312		
23406	52234645	BCD	' CONNECTED BY CABLE W305 IN A03 SLOT OF THE CTE=10.1'
23407	45252363		
23410	25241222		
23411	70122321		
23412	22432512		
23413	66030005		
23414	12314512		
23415	21000312		
23416	62434663		
23417	12462412		
23420	63302512		
23421	23632540		

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23422 01003312
23423 12523163
23424 12216262 BCD ' IT ASSUMES THAT CHANNELS 40-43 ARE CONNECTED!
23425 64442562
23426 12633021
23427 63122330
23430 21454525
23431 43621204
23432 00400403
23433 12215125
23434 12234645
23435 45252363
23436 25241212
23437 52634612 BCD ' TO THIS CHASSIS.!!
23440 63303162
23441 12233021
23442 62623162
23443 33371212
23444 52326330 FAM10 BCD ' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 2.1
23445 31621226
23446 64452363
23447 31464512
23450 23302523
23451 42621263
23452 30251223
23453 63254001
23454 00610101
23455 12233021
23456 62623162
23457 12027312
23460 52234445 BCD ' CONNECTED BY CABLE W305 IN A03 SLOT OF THE CTE=10.1
23461 45252363
23462 25241222
23463 70122321
23464 22432512
23465 66030005

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23466 12314512
23467 21000312
23470 62434663
23471 12462612
23472 63302512
23473 23632540
23474 01003312
23475 12523163 BCD ' IT ASSUMES THAT CHANNELS 44-47 ARE CONNECTED!
23476 12216262
23477 64442562
23500 12633021
23501 63122330
23502 21454525
23503 43621204
23504 04400407
23505 12215125
23506 12234645
23507 45252363
23510 25241212
23511 52634612 BCD ' TO THIS CHASSIS.!!
23512 63303162
23513 12233021
23514 62623162
23515 33371212
23516 52326330 FAM11 BCD ' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 3.1
23517 31621226
23520 64452363
23521 31464512
23522 23302523
23523 42621263
23524 30251223
23525 63254001
23526 00610101
23527 12233021
23530 62623162
23531 12037312

CTE	TAP=3.C	01/22	08:11	PAGE 405
23532	52234445		BCD	! CONNECTED BY CABLE W305 IN A03 SLOT OF THE CTE=10.!
23533	45252363			
23534	25241222			
23535	70122321			
23536	22432512			
23537	66030005			
23540	12314512			
23541	21000312			
23542	62434663			
23543	12462612			
23544	63302512			
23545	23632540			
23546	01003312			
23547	12523163		BCD	! IT ASSUMES THAT CHANNELS 50-53 ARE CONNECTED!
23550	12216262			
23551	64442562			
23552	12633021			
23553	63122330			
23554	21454525			
23555	43621205			
23556	00400503			
23557	12215125			
23560	12234445			
23561	45252363			
23562	25241212			
23563	52634612		BCD	! TO THIS CHASSIS.!!
23564	63303162			
23565	12233021			
23566	62623162			
23567	33371212			
23570	52326330	FAM12	BCD	! THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 4.!
23571	31621226			
23572	64432363			
23573	31464512			
23574	23302523			
23575	42621263			

CTE	TAP=3.C	01/22	08:11	PAGE 406
23576	30251223			
23577	63254001			
23600	00610101			
23601	12233021			
23602	62623162			
23603	12047312			
23604	52234645		BCD	! CONNECTED BY CABLE W305 IN A03 SLOT OF THE CTE=10.!
23605	45252363			
23606	25241222			
23607	70122321			
23610	22432512			
23611	66030005			
23612	12314512			
23613	21000312			
23614	62434663			
23615	12462612			
23616	63302512			
23617	23632540			
23620	01003312			
23621	12523163		BCD	! IT ASSUMES THAT CHANNELS 56-59 ARE CONNECTED!
23622	12216262			
23623	64442562			
23624	12633021			
23625	63122330			
23626	21454525			
23627	43621205			
23630	00400503			
23631	12215125			
23632	12234445			
23633	45252363			
23634	25241212			
23635	52634612		BCD	! TO THIS CHASSIS.!!
23636	63303162			
23637	12233021			
23640	62623162			
23641	33371212			

CTE	TAP=3.0	01/22	0811	PAGE 407
23642	52326330	FAM13	BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 1.'
23643	31621226			
23644	64452363			
23645	31464512			
23646	23302523			
23647	42621263			
23650	30251223			
23651	63254001			
23652	00610101			
23653	12233021			
23654	62623162			
23655	12017312			
23656	52234645	BCD		' CONNECTED BY CABLE W305 IN A04 SLOT OF THE CTE=10.'
23657	45252363			
23660	25241222			
23661	70122321			
23662	22432512			
23663	66030005			
23664	12314512			
23665	21000412			
23666	62434663			
23667	12462612			
23670	63302512			
23671	23632540			
23672	01003312			
23673	12523163	BCD		' IT ASSUMES THAT CHANNELS 60-63 ARE CONNECTED.'
23674	12216262			
23675	64442562			
23676	12633021			
23677	63122330			
23700	21454525			
23701	43621206			
23702	00400603			
23703	12215125			
23704	12234645			
23705	45252363			

CTE	TAP=3.0	01/22	0811	PAGE 408
23706	25241212			
23707	52634612	BCD		' TO THIS CHASSIS.'
23710	63303162			
23711	12233021			
23712	62623162			
23713	33371212			
23714	52326330	FAM14	BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 2.'
23715	31621226			
23716	64452363			
23717	31464512			
23720	23302523			
23721	42621263			
23722	30251223			
23723	63254001			
23724	00610101			
23725	12233021			
23726	62623162			
23727	12027312			
23730	52234645	BCD		' CONNECTED BY CABLE W305 IN A04 SLOT OF THE CTE=10.'
23731	45252363			
23732	25241222			
23733	70122321			
23734	22432512			
23735	66030005			
23736	12314512			
23737	21000412			
23740	62434663			
23741	12462612			
23742	63302512			
23743	23632540			
23744	01003312			
23745	12523163	BCD		' IT ASSUMES THAT CHANNELS 66-69 ARE CONNECTED.'
23746	12216262			
23747	64442562			
23750	12633021			
23751	63122330			

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23752	21454525		
23753	43621206		
23754	04400607		
23755	12215125		
23756	12234645		
23757	45252363		
23760	25241212		
23761	52634612	BCD	' TO THIS CHASSIS.!!
23762	63303162		
23763	12233021		
23764	62623162		
23765	33371212		
23766	52326330	FAM15 BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 3,!
23767	31621226		
23770	64452363		
23771	31464512		
23772	23302523		
23773	42621263		
23774	30251223		
23775	63254001		
23776	0061C101		
23777	12233021		
24000	62623162		
24001	12037312		
24002	52234645	BCD	' CONNECTED BY CABLE W305 IN A04 SLOT OF THE CTE=10.!
24003	45252363		
24004	25241222		
24005	70122321		
24006	22432512		
24007	66030005		
24010	12314512		
24011	21000412		
24012	62434663		
24013	12462612		
24014	63302512		
24015	23632540		

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24016	01003312		
24017	12523163	BCD	' IT ASSUMES THAT CHANNELS 70-73 ARE CONNECTED!
24020	12216262		
24021	64442562		
24022	12633021		
24023	63122330		
24024	21454525		
24025	43621207		
24026	00400703		
24027	12215125		
24030	12234645		
24031	45252363		
24032	25241212		
24033	52634612	BCD	' TO THIS CHASSIS.!!
24034	63303162		
24035	12233021		
24036	62623162		
24037	33371212		
24040	52326330	FAM16 BCD	' THIS FUNCTION CHECKS THE CTE=10/11 CHASSIS 4,!
24041	31621226		
24042	64452363		
24043	31464512		
24044	23302523		
24045	42621263		
24046	30251223		
24047	63254001		
24050	0061C101		
24051	12233021		
24052	62623162		
24053	12047312		
24054	52234645	BCD	' CONNECTED BY CABLE W305 IN A04 SLOT OF THE CTE=10.!
24055	45252363		
24056	25241222		
24057	70122321		
24060	22432512		
24061	66030005		

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24062 12314512
24063 21000412
24064 62434663
24065 12462612
24066 63302512
24067 23632540
24070 01003312
24071 12523163
24072 12216262
24073 64442562
24074 12633021
24075 63122330
24076 21454525
24077 43621207
24100 04400707
24101 12215125
24102 12234645
24103 46252363
24104 25241212
24105 52634612
24106 63373162
24107 12233021
24110 62623162
24111 33371212

BCD ' IT ASSUMES THAT CHANNELS 76-77 ARE CONNECTED:

BCD ' TO THIS CHASSIS. '

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24112 52261200
24113 01122363
24114 25400100
24115 61010112
24116 24312127
24117 45466263
24120 31231223
24121 30214545
24122 25436212
24123 12120012
24124 12401212
24125 12031237
24126 52261200
24127 02122363
24130 25400100
24131 61010112
24132 24312127
24133 45466263
24134 31231223
24135 30214545
24136 25436212
24137 12120012
24140 12401212
24141 12071237
24142 52261200
24143 03122363
24144 25400100
24145 61010112
24146 24312127
24147 45466263
24150 31231223
24151 30214545
24152 25436212
24153 12010012
24154 12401212

*
FIM1 BCD ' P 01 CTE=10/11 DIAGNOSTIC CHANNELS 0 . 3 ''

FIM2 BCD ' P 02 CTE=10/11 DIAGNOSTIC CHANNELS 4 . 7 ''

FIM3 BCD ' P 03 CTE=10/11 DIAGNOSTIC CHANNELS 10 . 13 ''

CTE	TAP=3.0	01/22	08:11	PAGE 413
24155	01031237			
24156	52261200	FIM4	BCD	' F 04 CTE=10/11 DIAGNOSTIC CHANNELS 14 • 17 ''
24157	04122363			
24160	25400100			
24161	61010112			
24162	24312127			
24163	45466263			
24164	31231223			
24165	30214545			
24166	25436212			
24167	12030412			
24170	12401212			
24171	01071237			
24172	52261200	FIM5	BCD	' F 05 CTE=10/11 DIAGNOSTIC CHANNELS 20 • 23 ''
24173	05122363			
24174	25400100			
24175	61010112			
24176	24312127			
24177	45466263			
24200	31231223			
24201	30214545			
24202	25436212			
24203	12030412			
24204	12401212			
24205	02031237			
24206	52261200	FIM6	BCD	' F 06 CTE=10/11 DIAGNOSTIC CHANNELS 24 • 27 ''
24207	04122363			
24210	25400100			
24211	61010112			
24212	24312127			
24213	45466263			
24214	31231223			
24215	30214545			
24216	25436212			
24217	12030412			
24220	12401212			

CTE	TAP=3.0	01/22	08:11	PAGE 414
24221	02071237			
24222	52261200	FIM7	BCD	' F 07 CTE=10/11 DIAGNOSTIC CHANNELS 30 • 33 ''
24223	07122363			
24224	25400100			
24225	61010112			
24226	24312127			
24227	45466263			
24230	31231223			
24231	30214545			
24232	25436212			
24233	12030412			
24234	12401212			
24235	03031237			
24236	52261200	FIM8	BCD	' F 08 CTE=10/11 DIAGNOSTIC CHANNELS 36 • 37 ''
24237	01122363			
24240	25400100			
24241	61010112			
24242	24312127			
24243	45466263			
24244	31231223			
24245	30214545			
24246	25436212			
24247	12030412			
24250	12401212			
24251	03071237			
24252	52261200	FIM9	BCD	' F 09 CTE=10/11 DIAGNOSTIC CHANNELS 40 • 43 ''
24253	11122363			
24254	25400100			
24255	61010112			
24256	24312127			
24257	45466263			
24260	31231223			
24261	30214545			
24262	25436212			
24263	12030412			
24264	12401212			

CTE	TAP=3.0	01/22	0811	PAGE 415
24265	04031237			
24266	52261201	FIM10	BCD	I F 10 CTE=10/11 DIAGNOSTIC CHANNELS 46 = 67 !!
24267	00122363			
24270	25400100			
24271	61010112			
24272	24312127			
24273	45466263			
24274	31231223			
24275	30214545			
24276	25436212			
24277	12040412			
24300	12401212			
24301	04071237			
24302	52261201	FIM11	BCD	I F 11 CTE=10/11 DIAGNOSTIC CHANNELS 50 = 53 !!
24303	01122363			
24304	25400100			
24305	61010112			
24306	24312127			
24307	45466263			
24310	31231223			
24311	30214545			
24312	25436212			
24313	12050012			
24314	12401212			
24315	05031237			
24316	52261201	FIM12	BCD	I F 12 CTE=10/11 DIAGNOSTIC CHANNELS 54 = 57 !!
24317	02122363			
24320	25400100			
24321	61010112			
24322	24312127			
24323	45466263			
24324	31231223			
24325	30214545			
24326	25436212			
24327	12050412			
24330	12401212			

CTE	TAP=3.0	01/22	0811	PAGE 416
24331	05071237			
24332	52261201	FIM13	BCD	I F 13 CTE=10/11 DIAGNOSTIC CHANNELS 60 = 63 !!
24333	03122363			
24334	25400100			
24335	61010112			
24336	24312127			
24337	45466263			
24340	31231223			
24341	30214545			
24342	25436212			
24343	12060012			
24344	12401212			
24345	06031237			
24346	52261201	FIM14	BCD	I F 14 CTE=10/11 DIAGNOSTIC CHANNELS 64 = 67 !!
24347	04122363			
24350	25400100			
24351	61010112			
24352	24312127			
24353	45466263			
24354	31231223			
24355	30214545			
24356	25436212			
24357	12060412			
24360	12401212			
24361	06071237			
24362	52261201	FIM15	BCD	I F 15 CTE=10/11 DIAGNOSTIC CHANNELS 70 = 73 !!
24363	05122363			
24364	25400100			
24365	61010112			
24366	24312127			
24367	45466263			
24370	31231223			
24371	30214545			
24372	25436212			
24373	12070012			
24374	12401212			

CTL	TAP=3.0	01/22	08111	PAGE 417
24375	07031237			
24376	52241201	FIM16	BCD	' F 16 CTE=10/11 DIAGNOSTIC CHANNELS 76 • 77 ''
24377	06122363			
24400	25400100			
24401	61012112			
24402	24312127			
24403	45466763			
24404	31231223			
24405	30214545			
24406	25436212			
24407	12070412			
24410	12401212			
24411	07071237			
24412	52454412	M17	BCD	' N9 RECEIVE N9R XMIT INTERRUPT RECEIVED. ''
24413	51252325			
24414	31652512			
24415	45465112			
24416	67443163			
24417	12314563			
24420	25515164			
24421	47631251			
24422	25232031			
24423	65232433			
24424	37121212			
24425	02214167		BCD	' A=XMIT.ADDR, B=REC.ADDR. ''
24426	44316333			
24427	21242451			
24430	33122240			
24431	31252333			
24432	21242451			
24433	33371212			
24434	21404746		BCD	' A=PST ADDR, B=PIN ADDR. ''
24435	63122124			
24436	24513312			
24437	22404731			
24440	45122124			

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24441	24513337			
24442	52214047		BCD	' A=PST ADDR, B=PIN ADDR. ''
24443	46631221			
24444	24245133			
24445	12224047			
24446	31451221			
24447	24245133			
24450	37121212			
24451	52214047		BCD	' A=PST ADDR, B=PIN ADDR. ''
24452	46631221			
24453	24245133			
24454	12224047			
24455	31451221			
24456	24245133			
24457	37121212			
24460	52214047		BCD	' A=PST ADDR, B=PIN ADDR. ''
24461	46631221			
24462	24245133			
24463	12224047			
24464	31451221			
24465	24245133			
24466	37121212			
24467	52454612	WAITR1	BCD	' N9 ON INTERRUPT RECEIVED. ''
24470	46451231			
24471	45632551			
24472	51644763			
24473	12512523			
24474	25316525			
24475	24333712			
24476	52454412	WAITR2	BCD	' N9 OFF INTERRUPT RECEIVED. ''
24477	46262612			
24500	31456325			
24501	51516447			
24502	63125125			
24503	23253165			
24504	25243337			

END

LITERALS USED:
24508 37777600
24506 00000000
24507 00000004
24510 77777777
24511 00600000
24512 00120000
24513 77772327
24514 00100000
24515 77600000
24516 77640000
24517 00040000
24520 45640000
24521 00000001
24522 00100001
24523 00120001
24524 77600001
24525 77640001
24526 00040001
24527 45640001
24530 00000002
24531 00100002
24532 00120002
24533 77600002
24534 77640002
24535 00040002
24536 45640002
24537 00000003
24540 00100003
24541 00120003
24542 77600003
24543 77640003
24544 00040003
24545 45640003
24546 00120004

24547 00100004
24550 77600004
24551 77640004
24552 00040004
24553 45640004
24554 00100005
24555 00120005
24556 00000005
24557 77600005
24560 77640005
24561 00040005
24562 45640005
24563 00100006
24564 00120006
24565 00000006
24566 77600006
24567 77640006
24570 00040006
24571 45640006
24572 00100007
24573 00120007
24574 00000007
24575 77600007
24576 77640007
24577 00040007
24600 45640007
24601 00120010
24602 00100010
24603 00000010
24604 77600010
24605 77640010
24606 00040010
24607 45640010
24610 00100011
24611 00120011
24612 00000011

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24613 77600011
24614 77640011
24615 00040011
24616 45640011
24617 00100012
24620 00120012
24621 00000012
24622 77600012
24623 77640012
24624 00040012
24625 45640012
24626 00100013
24627 00120013
24630 00000013
24631 77600013
24632 77640013
24633 00040013
24634 45640013
24635 00100014
24636 00100014
24637 00000014
24640 77600014
24641 77640014
24642 00040014
24643 45640014
24644 00100015
24645 00120015
24646 00000015
24647 77600015
24650 77640015
24651 00040015
24652 45640015
24653 00100016
24654 00120016
24655 00000016
24656 77600016

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24657 77640016
24660 00040016
24661 45640016
24662 00100017
24663 00120017
24664 00000017
24665 77600017
24666 77640017
24667 00040017
24670 45640017
24671 00100020
24672 00100020
24673 00000020
24674 77600020
24675 77640020
24676 00040020
24677 45640020
24700 00100021
24701 00120021
24702 00000021
24703 77600021
24704 77640021
24705 00040021
24706 45640021
24707 00100022
24710 00120022
24711 00000022
24712 77600022
24713 77640022
24714 00040022
24715 45640022
24716 00100023
24717 00120023
24720 00000023
24721 77600023
24722 77640023

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24723 00040023
24724 45640023
24725 00120024
24726 00100024
24727 00000024
24730 77600024
24731 77640024
24732 00040024
24733 45640024
24734 00100025
24735 00120025
24736 00000025
24737 77600025
24740 77640025
24741 00040025
24742 45640025
24743 00100026
24744 00120026
24745 00000026
24746 77600026
24747 77640026
24750 00040026
24751 45640026
24752 00100027
24753 00120027
24754 00000027
24755 77600027
24756 77640027
24757 00040027
24760 45640027
24761 00120030
24762 00100030
24763 00000030
24764 77600030
24765 77640030
24766 00040030

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24767 45640030
24770 00100031
24771 00120031
24772 00000031
24773 77600031
24774 77640031
24775 00040031
24776 45640031
24777 00100032
25000 00120032
25001 00000032
25002 77600032
25003 77640032
25004 00040032
25005 45640032
25006 00100033
25007 00120033
25010 00000033
25011 77600033
25012 77640033
25013 00040033
25014 45640033
25015 00120034
25016 00100034
25017 00000034
25020 77600034
25021 77640034
25022 00040034
25023 45640034
25024 00100035
25025 00120035
25026 00000035
25027 77600035
25030 77640035
25031 00040035
25032 45640035

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25033 00100036
25034 00120036
25035 00000036
25036 77600036
25037 77640036
25040 00040036
25041 45640036
25042 00100037
25043 00120037
25044 00000037
25045 77600037
25046 77640037
25047 00040037
25050 45640037
25051 00120040
25052 00100040
25053 00000040
25054 77600040
25055 77640040
25056 00040040
25057 45640040
25060 00100041
25061 00120041
25062 00000041
25063 77600041
25064 77640041
25065 00040041
25066 45640041
25067 00100042
25070 00120042
25071 00000042
25072 77600042
25073 77640042
25074 00040042
25075 45640042
25076 00100043

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25077 00120043
25100 00000043
25101 77600043
25102 77640043
25103 00040043
25104 45640043
25105 00120044
25106 00100044
25107 00000044
25110 77600044
25111 77640044
25112 00040044
25113 45640044
25114 00100045
25115 00120045
25116 00000045
25117 77600045
25120 77640045
25121 00040045
25122 45640045
25123 00100046
25124 00120046
25125 00000046
25126 77600046
25127 77640046
25130 00040046
25131 45640046
25132 00100047
25133 00120047
25134 00000047
25135 77600047
25136 77640047
25137 00040047
25140 45640047
25141 00120050
25142 00100050

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25143 0000050
25144 7760050
25145 7760050
25146 0004050
25147 4564050
25150 0010051
25151 0012051
25152 0000051
25153 7760051
25154 7764051
25155 0004051
25156 4564051
25157 0010052
25160 0012052
25161 0000052
25162 7760052
25163 7764052
25164 0004052
25165 4564052
25166 0010053
25167 0012053
25170 0000053
25171 7760053
25172 7764053
25173 0004053
25174 4564053
25175 0012054
25176 0010054
25177 0000054
25200 7760054
25201 7764054
25202 0004054
25203 4564054
25204 0010055
25205 0012055
25206 0000055

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25207 7760055
25210 7764055
25211 0004055
25212 4564055
25213 0010056
25214 0012056
25215 0000056
25216 7760056
25217 7764056
25220 0004056
25221 4564056
25222 0010057
25223 0012057
25224 0000057
25225 7760057
25226 7764057
25227 0004057
25230 4564057
25231 0012060
25232 0010060
25233 0000060
25234 7760060
25235 7764060
25236 0004060
25237 4564060
25240 0010061
25241 0012061
25242 0000061
25243 7760061
25244 7764061
25245 0004061
25246 4564061
25247 0010062
25250 0012062
25251 0000062
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25424 CELLS USED BY PROGRAM

LOCAL SYMBOLS USED *

ADDR	20130*	AREG	N	410	BE4	N	20144*
BFR04	16315*	BFR06		16320*	BFR07		16322*
BFR08	16331*	BFRSKS		16276*	BREG	N	411
CARRET	15750*	CC4	N	20142*	CF4	N	20143*
CHNL04	16213*	CHNL06		16220*	CHNL08	N	16225*
CHNL10	16231*	CHNL12		16240*	CHNL16		16250*
CHNL18	16255*	CHNL20	N	16262*	CHNL22		16266*
CHNL24	16275*	CHNLAD		16172*	CHNLF	N	20140*
CHNLFL	20116*	CHNLN	N	20141*	CHNLNL		20115*
CLEAR	15711*	COMMON		15673*	COUNTR		20131*
CSTSKS	14023*	DIVERT		450	DBNE		452
DSCSIZ	N	END		434	ERR0R		460
ERR0RS	N	F0100A	N	4064*	F0101A	N	4074*
F0101C	4110*	F0102A	N	4111*	F0103A	N	4121*
F0104A	N	F0105A	N	4135*	F0106A	N	4143*
F0107A	N	F0108A	N	4160*	F0109A	N	4166*
F0110A	N	F0111A	N	4202*	F0112A	N	4210*
F0113A	N	F0114A	N	4226*	F0115A	N	4234*
F0116A	N	F0117A	N	4250*	F0118A	N	4257*
F0119A	N	F0120A	N	4273*	F0121A	N	4301*
F0122A	N	F0123A	N	4317*	F0124A	N	4325*
F0125A	N	F0126A	N	4341*	F0127A	N	4347*
F0128A	N	F0129A	N	4364*	F0130A	N	4372*
F0131A	N	F0132A	N	4406*	F0133A	N	4416*
F0134A	N	F0135A	N	4432*	F0136A	N	4440*
F0137A	N	F0138A	N	4455*	F0139A	N	4463*
F0140A	N	F0141A	N	4477*	F0200A	N	4555*
F0201A	N	F0201C		4601*	F0202A	N	4602*
F0203A	N	F0204A	N	4620*	F0205A	N	4626*
F0206A	N	F0207A	N	4642*	F0208A	N	4651*
F0209A	N	F0210A	N	4665*	F0211A	N	4673*

F0212A	N	4701+	F0213A	N	4711+	F0214A	N	4717+
F0215A	N	4725+	F0216A	N	4733+	F0217A	N	4741+
F0218A	N	4750+	F0219A	N	4756+	F0220A	N	4764+
F0221A	N	4772+	F0222A	N	5000+	F0223A	N	5010+
F0224A	N	5016+	F0225A	N	5024+	F0226A	N	5032+
F0227A	N	5040+	F0228A	N	5047+	F0229A	N	5055+
F0230A	N	5063+	F0231A	N	5071+	F0232A	N	5077+
F0233A	N	5107+	F0234A	N	5115+	F0235A	N	5123+
F0236A	N	5131+	F0237A	N	5137+	F0238A	N	5146+
F0239A	N	5154+	F0240A	N	5162+	F0241A	N	5170+
F0300A	N	5246+	F0301A	N	5256+	F0301C	N	5272+
F0302A	N	5273+	F0303A	N	5303+	F0304A	N	5311+
F0305A	N	5317+	F0306A	N	5325+	F0307A	N	5333+
F0308A	N	5342+	F0309A	N	5350+	F0310A	N	5356+
F0311A	N	5354+	F0312A	N	5372+	F0313A	N	5402+
F0314A	N	5410+	F0315A	N	5416+	F0316A	N	5424+
F0317A	N	5432+	F0318A	N	5441+	F0319A	N	5447+
F0320A	N	5455+	F0321A	N	5463+	F0322A	N	5471+
F0323A	N	5501+	F0324A	N	5507+	F0325A	N	5515+
F0326A	N	5523+	F0327A	N	5531+	F0328A	N	5540+
F0329A	N	5546+	F0330A	N	5554+	F0331A	N	5562+
F0332A	N	5570+	F0333A	N	5600+	F0334A	N	5606+
F0335A	N	5614+	F0336A	N	5622+	F0337A	N	5630+
F0338A	N	5637+	F0339A	N	5645+	F0340A	N	5653+
F0341A	N	5661+	F0400A	N	5737+	F0401A	N	5747+
F0401C	N	5763+	F0402A	N	5764+	F0403A	N	5774+
F0404A	N	6002+	F0405A	N	6010+	F0406A	N	6016+
F0407A	N	6024+	F0408A	N	6033+	F0409A	N	6041+
F0410A	N	6047+	F0411A	N	6055+	F0412A	N	6063+
F0413A	N	6073+	F0414A	N	6101+	F0415A	N	6107+
F0416A	N	6115+	F0417A	N	6123+	F0418A	N	6132+
F0419A	N	6140+	F0420A	N	6146+	F0421A	N	6154+
F0422A	N	6162+	F0423A	N	6172+	F0424A	N	6200+
F0425A	N	6206+	F0426A	N	6214+	F0427A	N	6222+
F0428A	N	6231+	F0429A	N	6237+	F0430A	N	6245+
F0431A	N	6253+	F0432A	N	6261+	F0433A	N	6271+

F0434A	N	6277+	F0435A	N	6305+	F0436A	N	6313+
F0437A	N	6321+	F0438A	N	6330+	F0439A	N	6336+
F0440A	N	6344+	F0441A	N	6352+	F0500A	N	6430+
F0501A	N	6443+	F0501C	N	6454+	F0502A	N	6455+
F0503A	N	6465+	F0504A	N	6473+	F0505A	N	6501+
F0506A	N	6507+	F0507A	N	6515+	F0508A	N	6524+
F0509A	N	6532+	F0510A	N	6540+	F0511A	N	6546+
F0512A	N	6554+	F0513A	N	6564+	F0514A	N	6572+
F0515A	N	6600+	F0516A	N	6606+	F0517A	N	6614+
F0518A	N	6623+	F0519A	N	6631+	F0520A	N	6637+
F0521A	N	6645+	F0522A	N	6653+	F0523A	N	6663+
F0524A	N	6671+	F0525A	N	6677+	F0526A	N	6705+
F0527A	N	6713+	F0528A	N	6722+	F0529A	N	6730+
F0530A	N	6736+	F0531A	N	6744+	F0532A	N	6752+
F0533A	N	6762+	F0534A	N	6770+	F0535A	N	6776+
F0536A	N	7004+	F0537A	N	7012+	F0538A	N	7021+
F0539A	N	7027+	F0540A	N	7035+	F0541A	N	7043+
F0600A	N	7121+	F0601A	N	7131+	F0601C	N	7145+
F0602A	N	7146+	F0603A	N	7156+	F0604A	N	7164+
F0605A	N	7172+	F0606A	N	7200+	F0607A	N	7206+
F0608A	N	7215+	F0609A	N	7223+	F0610A	N	7231+
F0611A	N	7237+	F0612A	N	7245+	F0613A	N	7255+
F0614A	N	7263+	F0615A	N	7271+	F0616A	N	7277+
F0617A	N	7305+	F0618A	N	7314+	F0619A	N	7322+
F0620A	N	7330+	F0621A	N	7336+	F0622A	N	7344+
F0623A	N	7354+	F0624A	N	7362+	F0625A	N	7370+
F0626A	N	7376+	F0627A	N	7404+	F0628A	N	7413+
F0629A	N	7421+	F0630A	N	7427+	F0631A	N	7435+
F0632A	N	7443+	F0633A	N	7453+	F0634A	N	7461+
F0635A	N	7467+	F0636A	N	7475+	F0637A	N	7503+
F0638A	N	7512+	F0639A	N	7520+	F0640A	N	7526+
F0641A	N	7534+	F0700A	N	7612+	F0701A	N	7622+
F0701C	N	7636+	F0702A	N	7637+	F0703A	N	7647+
F0704A	N	7655+	F0705A	N	7663+	F0706A	N	7671+
F0707A	N	7677+	F0708A	N	7706+	F0709A	N	7714+
F0710A	N	7722+	F0711A	N	7730+	F0712A	N	7736+

F0713A	N	7746+	F0714A	N	7754+	F0715A	N	7762+
F0716A	N	7770+	F0717A	N	7776+	F0718A	N	10005+
F0719A	N	10013+	F0720A	N	10021+	F0721A	N	10027+
F0722A	N	10035+	F0723A	N	10045+	F0724A	N	10053+
F0725A	N	10061+	F0726A	N	10067+	F0727A	N	10075+
F0728A	N	10104+	F0729A	N	10112+	F0730A	N	10120+
F0731A	N	10126+	F0732A	N	10134+	F0733A	N	10144+
F0734A	N	10152+	F0735A	N	10160+	F0736A	N	10166+
F0737A	N	10174+	F0738A	N	10203+	F0739A	N	10211+
F0740A	N	10217+	F0741A	N	10225+	F0800A	N	10303+
F0801A	N	10313+	F0801C	N	10327+	F0802A	N	10330+
F0803A	N	10340+	F0804A	N	10346+	F0805A	N	10354+
F0806A	N	10362+	F0807A	N	10370+	F0808A	N	10377+
F0809A	N	10405+	F0810A	N	10413+	F0811A	N	10421+
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F0827A	N	10566+	F0828A	N	10575+	F0829A	N	10603+
F0830A	N	10611+	F0831A	N	10617+	F0832A	N	10625+
F0833A	N	10635+	F0834A	N	10643+	F0835A	N	10651+
F0836A	N	10657+	F0837A	N	10665+	F0838A	N	10674+
F0839A	N	10702+	F0840A	N	10710+	F0841A	N	10716+
F0900A	N	10774+	F0901A	N	11004+	F0901C	N	11020+
F0902A	N	11021+	F0903A	N	11031+	F0904A	N	11037+
F0905A	N	11045+	F0906A	N	11053+	F0907A	N	11061+
F0908A	N	11070+	F0909A	N	11076+	F0910A	N	11104+
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F0917A	N	11160+	F0918A	N	11167+	F0919A	N	11175+
F0920A	N	11203+	F0921A	N	11211+	F0922A	N	11217+
F0923A	N	11227+	F0924A	N	11235+	F0925A	N	11243+
F0926A	N	11251+	F0927A	N	11257+	F0928A	N	11266+
F0929A	N	11274+	F0930A	N	11302+	F0931A	N	11310+
F0932A	N	11316+	F0933A	N	11326+	F0934A	N	11334+

F0935A	N	11342+	F0936A	N	11350+	F0937A	N	11356+
F0938A	N	11365+	F0939A	N	11373+	F0940A	N	11401+
F0941A	N	11407+	F1000A	N	11465+	F1001A	N	11475+
F1001C	N	11511+	F1002A	N	11512+	F1003A	N	11522+
F1004A	N	11530+	F1005A	N	11536+	F1006A	N	11544+
F1007A	N	11552+	F1008A	N	11561+	F1009A	N	11567+
F1010A	N	11575+	F1011A	N	11603+	F1012A	N	11611+
F1013A	N	11621+	F1014A	N	11627+	F1015A	N	11635+
F1016A	N	11643+	F1017A	N	11651+	F1018A	N	11660+
F1019A	N	11666+	F1020A	N	11674+	F1021A	N	11702+
F1022A	N	11710+	F1023A	N	11720+	F1024A	N	11726+
F1025A	N	11734+	F1026A	N	11742+	F1027A	N	11750+
F1028A	N	11757+	F1029A	N	11765+	F1030A	N	11773+
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F1037A	N	12047+	F1038A	N	12056+	F1039A	N	12064+
F1040A	N	12072+	F1041A	N	12100+	F1100A	N	12156+
F1101A	N	12166+	F1101C	N	12202+	F1102A	N	12203+
F1103A	N	12213+	F1104A	N	12221+	F1105A	N	12227+
F1106A	N	12235+	F1107A	N	12243+	F1108A	N	12252+
F1109A	N	12260+	F1110A	N	12266+	F1111A	N	12274+
F1112A	N	12302+	F1113A	N	12312+	F1114A	N	12320+
F1115A	N	12326+	F1116A	N	12334+	F1117A	N	12342+
F1118A	N	12351+	F1119A	N	12357+	F1120A	N	12365+
F1121A	N	12373+	F1122A	N	12401+	F1123A	N	12411+
F1124A	N	12417+	F1125A	N	12425+	F1126A	N	12433+
F1127A	N	12441+	F1128A	N	12450+	F1129A	N	12456+
F1130A	N	12464+	F1131A	N	12472+	F1132A	N	12500+
F1133A	N	12510+	F1134A	N	12516+	F1135A	N	12524+
F1136A	N	12532+	F1137A	N	12540+	F1138A	N	12547+
F1139A	N	12555+	F1140A	N	12563+	F1141A	N	12571+
F1200A	N	12647+	F1201A	N	12657+	F1201C	N	12673+
F1202A	N	12674+	F1203A	N	12704+	F1204A	N	12712+
F1205A	N	12720+	F1206A	N	12726+	F1207A	N	12734+
F1208A	N	12743+	F1209A	N	12751+	F1210A	N	12757+
F1211A	N	12765+	F1212A	N	12773+	F1213A	N	13003+

F1214A	N	13011+	F1215A	N	13017+	F1216A	N	13025+
F1217A	N	13033+	F1218A	N	13042+	F1219A	N	13050+
F1220A	N	13054+	F1221A	N	13064+	F1222A	N	13072+
F1223A	N	13102+	F1224A	N	13110+	F1225A	N	13116+
F1226A	N	13124+	F1227A	N	13132+	F1228A	N	13141+
F1229A	N	13147+	F1230A	N	13155+	F1231A	N	13163+
F1232A	N	13171+	F1233A	N	13201+	F1234A	N	13207+
F1235A	N	13215+	F1236A	N	13223+	F1237A	N	13231+
F1238A	N	13240+	F1239A	N	13246+	F1240A	N	13254+
F1241A	N	13262+	F1300A	N	13340+	F1301A	N	13350+
F1301C	N	13344+	F1302A	N	13365+	F1303A	N	13375+
F1304A	N	13407+	F1305A	N	13411+	F1306A	N	13417+
F1307A	N	13425+	F1308A	N	13434+	F1309A	N	13442+
F1310A	N	13450+	F1311A	N	13456+	F1312A	N	13464+
F1313A	N	13474+	F1314A	N	13502+	F1315A	N	13510+
F1316A	N	13516+	F1317A	N	13524+	F1318A	N	13533+
F1319A	N	13541+	F1320A	N	13547+	F1321A	N	13555+
F1322A	N	13563+	F1323A	N	13573+	F1324A	N	13601+
F1325A	N	13607+	F1326A	N	13615+	F1327A	N	13623+
F1328A	N	13632+	F1329A	N	13640+	F1330A	N	13646+
F1331A	N	13654+	F1332A	N	13662+	F1333A	N	13672+
F1334A	N	13722+	F1335A	N	13706+	F1336A	N	13714+
F1337A	N	13722+	F1338A	N	13731+	F1339A	N	13737+
F1340A	N	13745+	F1341A	N	13753+	F1400A	N	14031+
F1401A	N	14041+	F1401C	N	14055+	F1402A	N	14056+
F1403A	N	14066+	F1404A	N	14074+	F1405A	N	14102+
F1406A	N	14110+	F1407A	N	14116+	F1408A	N	14125+
F1409A	N	14133+	F1410A	N	14141+	F1411A	N	14147+
F1412A	N	14155+	F1413A	N	14165+	F1414A	N	14173+
F1415A	N	14201+	F1416A	N	14207+	F1417A	N	14215+
F1418A	N	14224+	F1419A	N	14232+	F1420A	N	14240+
F1421A	N	14246+	F1422A	N	14254+	F1423A	N	14264+
F1424A	N	14272+	F1425A	N	14300+	F1426A	N	14306+
F1427A	N	14314+	F1428A	N	14323+	F1429A	N	14331+
F1430A	N	14337+	F1431A	N	14345+	F1432A	N	14353+
F1433A	N	14363+	F1434A	N	14371+	F1435A	N	14377+

F1436A	N	14405+	F1437A	N	14413+	F1438A	N	14422+
F1439A	N	14430+	F1440A	N	14436+	F1441A	N	14444+
F1500A	N	14522+	F1501A	N	14532+	F1501C	N	14546+
F1502A	N	14547+	F1503A	N	14557+	F1504A	N	14565+
F1505A	N	14573+	F1506A	N	14601+	F1507A	N	14607+
F1508A	N	14616+	F1509A	N	14624+	F1510A	N	14632+
F1511A	N	14640+	F1512A	N	14646+	F1513A	N	14656+
F1514A	N	14664+	F1515A	N	14672+	F1516A	N	14700+
F1517A	N	14706+	F1518A	N	14715+	F1519A	N	14723+
F1520A	N	14731+	F1521A	N	14737+	F1522A	N	14745+
F1523A	N	14755+	F1524A	N	14763+	F1525A	N	14771+
F1526A	N	14777+	F1527A	N	15005+	F1528A	N	15014+
F1529A	N	15022+	F1530A	N	15030+	F1531A	N	15036+
F1532A	N	15044+	F1533A	N	15054+	F1534A	N	15062+
F1535A	N	15070+	F1536A	N	15076+	F1537A	N	15104+
F1538A	N	15113+	F1539A	N	15121+	F1540A	N	15127+
F1541A	N	15135+	F1600A	N	15213+	F1601A	N	15223+
F1601C	N	15237+	F1602A	N	15240+	F1603A	N	15250+
F1604A	N	15256+	F1605A	N	15264+	F1606A	N	15272+
F1607A	N	15300+	F1608A	N	15307+	F1609A	N	15315+
F1610A	N	15323+	F1611A	N	15331+	F1612A	N	15337+
F1613A	N	15347+	F1614A	N	15355+	F1615A	N	15363+
F1616A	N	15371+	F1617A	N	15377+	F1618A	N	15406+
F1619A	N	15414+	F1620A	N	15422+	F1621A	N	15430+
F1622A	N	15436+	F1623A	N	15446+	F1624A	N	15454+
F1625A	N	15462+	F1626A	N	15470+	F1627A	N	15476+
F1628A	N	15505+	F1629A	N	15513+	F1630A	N	15521+
F1631A	N	15527+	F1632A	N	15535+	F1633A	N	15545+
F1634A	N	15553+	F1635A	N	15561+	F1636A	N	15567+
F1637A	N	15575+	F1638A	N	15604+	F1639A	N	15612+
F1640A	N	15620+	F1641A	N	15626+	FAM1	N	22654+
FAM10	N	22444+	FAM11	N	23516+	FAM12	N	23570+
FAM13	N	23642+	FAM14	N	23714+	FAM15	N	23766+
FAM16	N	24040+	FAM2	N	22725+	FAM3	N	22776+
FAM4	N	23050+	FAM5	N	23122+	FAM6	N	23174+
FAM7	N	23246+	FAM8	N	23320+	FAM9	N	23372+

FAN	19306+	FOBNE	456	FIM1	24112+
FIM10	24266+	FIM11	24302+	FIM12	24316+
FIM13	24332+	FIM14	24346+	FIM15	24362+
FIM16	24376+	FIM2	24126+	FIM3	24142+
FIM4	24156+	FIM5	24172+	FIM6	24206+
FIM7	24222+	FIM8	24236+	FIM9	24252+
FIMI	15635+	FLAGS	332	FLG94C	20145+
FPT1	17633+	FPT10	17776+	FPT11	20011+
FPT12	20032+	FPT13	20037+	FPT14	20058+
FPT15	20065+	FPT16	20100+	FPT2	17646+
FPT3	17661+	FPT4	17674+	FPT5	17707+
FPT6	17722+	FPT7	17735+	FPT8	17750+
FPT9	17763+	FUNCT	424	FUNC1	4015+
FUNC10	11414+	FUNC11	12107+	FUNC12	12600+
FUNC13	12271+	FUNC14	13762+	FUNC15	14453+
FUNC16	15144+	FUNC2	4506+	FUNC3	5177+
FUNC4	15675+	FUNC5	6361+	FUNC6	7052+
FUNC7	17543+	FUNC8	10234+	FUNC9	10725+
FV1	17642+	FVM10	20005+	FVM11	20020+
FV12	20033+	FVM13	20046+	FVM14	20061+
FV15	20074+	FVM16	20107+	FVM2	17655+
FV3	17670+	FV4	17703+	FVM5	17716+
FV6	17731+	FV7	17744+	FVM8	17757+
FV9	17772+	FVT1	17641+	FVT10	20004+
FVT11	20017+	FVT12	20032+	FVT13	20045+
FVT14	20060+	FVT15	20073+	FVT16	20106+
FVT2	17654+	FVT3	17667+	FVT4	17702+
FVT5	17715+	FVT6	17730+	FVT7	17743+
FVTR	17756+	FVT9	17771+	GL1CH	15636+
I30T44	15665+	I31	243	I33	247
I56174	15664+	IEXT	15655+	IMSG	15725+
INT31	242	INT33	246	ITABLE	15721+
JMSG	17166+	JMSG1	17235+	JMSG2	17241+
JMSG3	17245+	JMSG4	17251+	JMSG5	17255+
JMSG6	17261+	JMSG7	17265+	JMSG8	17271+
JMSG9	17275+	LOCKS	402	MO01	21411+

MO02	21501+	MO03	21636+	MO04	21700+
MO05	22043+	MO06	22252+	MO07	22323+
MO08	22456+	MO09	22624+	MO1	20146+
MO101A	21302+	MO102	21347+	MO103	21631+
MO103A	21441+	MO104	21676+	MO106	21720+
MO108	21735+	MO111	21752+	MO114	22004+
MO116	22243+	MO117	22316+	MO118	22423+
MO119	22613+	MO1A	20166+	MO2	20147+
MO2A	21220+	MO3	20150+	MO3A	20252+
MO4	21151+	MO4A	20304+	MO5	20152+
MO5A	21336+	MO6	20153+	MO6A	20370+
MO7	21154+	MO7A	20422+	MO8	20155+
MO8A	21454+	MO9	20156+	MO9A	20506+
M10	21157+	M101	21417+	M102	21527+
M103	21646+	M104	21704+	M105	22103+
M106	22263+	M107	22343+	M108	22505+
M109	22632+	M10A	20540+	M11	20160+
M11A	21572+	M12	20161+	M12A	20624+
M13	21162+	M13A	20656+	M14	20163+
M14A	21710+	M15	20164+	M15A	20742+
M16	21165+	M16A	20774+	M17	21412+
M201	21425+	M202	21555+	M203	21656+
M204	21710+	M205	22143+	M206	22274+
M207	22363+	M208	22535+	M209	22640+
M301	21433+	M302	21603+	M303	21666+
M304	21714+	M305	22203+	M306	22305+
M307	22403+	M308	22564+	M309	22646+
MSG1	21026+	MSG10	21167+	MSG11	21205+
MSG12	21221+	MSG13	21231+	MSG14	21244+
MSG15	21254+	MSG16	21266+	MSG2	21042+
MSG3	21056+	MSG4	21073+	MSG5	21107+
MSG6	21123+	MSG7	21137+	MSG8	21146+
MSG9	21155+	OBJECT	430	OFFL	20114+
ONL	20113+	ONOF04	16114+	ONOF06	16121+
ONOF08	16124+	ONOF10	16127+	ONOF12	16136+
ONOF16	16146+	ONOF18	16153+	ONOF20	16156+

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BNBF22	16162*	BNBF23	16164*	BNBF24	16171*
BNBFF5	16070*	BVRFLB	N 413	BVRNRL	20126*
BVRNXL	21127*	BVRN03	N 17077*	BVRN04	17075*
BVRN05	17101*	BVRN06	17103*	BVRN08	17115*
BVRN09	17117*	BVRN10	17136*	BVRN12	1715*
BVRN13	17136*	BVRN14	17157*	BVRN16	1713*
BVRRUN	17035*	PINWD1	20132*	POP	15661*
POTA	21133*	PSTD	20134*	PSTX	20135*
RADSIZ	N 403	RDY02	15761*	RDY04	15765*
RDY05	15767*	RDY06	15771*	RDY08	15777*
RDY10	16002*	RDY11	16004*	RDY12	16013*
RDY14	N 16015*	RDY16	16017*	RDY17	16021*
RDY18	16022*	RDYSKG	15751*	REC04	16356*
REC05	1636*	REC06	16362*	REC07	16365*
REC08	16402*	REC09	16404*	REC10	16410*
REC12	16421*	RECINT	16332*	RECL	20117*
REPBRT	454	RETURN	440	RFLAG	20136*
RL1	N 415	RL2	N 416	RL4	N 417
SEED	N 406	SPUR1	15642*	START	N 4000*
STATJ5	401	STAT02	16033*	STAT06	16036*
STAT08	16044*	STAT10	16047*	STAT11	16051*
STAT12	16060*	STAT14	16062*	STAT16	16064*
STAT17	16066*	STAT18	16067*	SYSIZE	405
TIME	N 407	JAM	17322*	UAW	N 400
UIM	17307*	UNIT	420	UPT	17301*
UVM	17320*	XAITR1	N 24467*	XAITR2	N 24476*
XFLAG	21137*	XMITRL	20120*	XMITXL	20121*
XMIT04	16473*	XMIT05	16475*	XMIT06	16501*
XMIT07	16477*	XMIT08	16517*	XMIT09	16521*
XMIT0R	21124*	XMIT0S	16704*	XMIT0X	20125*
XMIT10	16523*	XMIT12	16541*	XMIT13	16343*
XMIT14	16544*	XMIT1R	20122*	XMIT1S	16553*
XMIT1X	21123*	XMT003	16746*	XMT004	16744*
XMT005	16750*	XMT006	16752*	XMT007	16764*
XMT009	17001*	XMT010	17005*	XMT012	17023*
XMT013	17025*	XMT014	17026*	XMT016	17003*

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XMT017	16766*	XMT103	16615*	XMT104	16613*
XMT105	16617*	XMT106	16621*	XMT107	16633*
XMT109	16650*	XMT110	16654*	XMT112	16672*
XMT113	16674*	XMT114	16675*	XMT116	16652*
XMT117	16635*	XMTINT	16433*	XREG	N 412
ZERR	N 0*				

